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ANNUAL OPERATIONS AND MAINTENANCE STATUS REPORT FOR BIOVENTING AND BIOSPARGING SYSTEMS AT SOUTH FUEL FARM NAS CECIL FIELD FL

9/1/2005

CH2MHILL CONSTRUCTORS INC

Annual Operations and Maintenance Status Report

Bioventing and Biosparging Systems South Fuel Farm Former Naval Air Station Cecil Field Jacksonville, Florida

July 1, 2004 – June 30, 2005

Contract No. N62467-98-D-0995
Contract Task Order No. 0086

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A Historical Data
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Acronyms

ABB-ES	ABB Environmental Services, Inc.
acfm	actual cubic feet per minute
AST	aboveground storage tank
BCT	BRAC Cleanup Team
BEI	Bechtel Environmental, Inc.
bls	below land surface
BRAC	Base Realignment and Closure
^{o}C	degrees Celsius
CH2M HILL	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Action Navy
CTO	Contract Task Order
EMT	earth-mounded tank
^{o}F	degrees Fahrenheit
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FL-PRO	Florida Petroleum Residual Organic
GCTLs	Groundwater Cleanup Target Levels
in Hg	inches of mercury
JP-5	jet propellant 5
LNAPL	light non-aqueous phase liquid
µg/L	micrograms per liter
mg/L	milligrams per liter
mS/cm	milliSeimens per centimeter
mV	millivolts
NAS	Naval Air Station
NAVD	North American Vertical Datum
NAVFAC EFD SOUTH	Naval Facilities Engineering Command, Engineering Field Division, Southern Division
NM	not measured
NTU	nephelometric turbidity units
O&M	operations and maintenance
ORP	oxygen reduction potential
OVA	organic vapor analyzer

PAH	polycyclic aromatic hydrocarbons
ppm	parts per million
psig	pounds per square inch gauge
PVC	polyvinyl chloride
RAP	Remedial Action Plan
scfm	standard cubic feet per minute
SCTLs	Soil Cleanup Target Levels
SFF	South Fuel Farm
TRPH	total recoverable petroleum hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) has been contracted by the Department of the Navy, Naval Facilities Engineering Command Engineering Field Division, Southern Division (NAVFAC EFD SOUTH), to provide operation and maintenance (O&M) services at the South Fuel Farm (SFF), Former NAS Cecil Field, Jacksonville, Florida, under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0086.

Bioventing and biosparging systems were installed at SFF to reduce petroleum hydrocarbon contaminant concentrations in site groundwater and unsaturated soils. The purpose of this Annual Operations and Maintenance Status Report is to provide a summary of annual O&M activities performed at the site during the period of July 1, 2004, to June 30, 2005. This report includes the 2nd Quarter 2005 O&M activities and results, and therefore, replaces the 2nd Quarter 2005 Operations and Maintenance Status Report. The 3rd and 4th Quarter 2004 and 1st Quarter 2005 Operations and Maintenance Status Reports were previously submitted to the Navy.

Annual O&M activities included the following activities:

- Perform routine O&M checks of system (including recording meter and gauge measurements).
- Adjust and balance flow rates.
- Collect water level measurements.
- Collect soil and groundwater samples.

1.1 Objective

The objective of the remedial action at the SFF is to reduce the concentrations of petroleum contaminants in the groundwater and unsaturated soils to Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) and Soil Cleanup Target Levels (SCTLs), respectively, as specified in Tables I and II of Chapter 62-777, Florida Administrative Code (FAC). Bioventing and biosparging systems have been installed and are currently operational at the site to achieve this objective.

1.2 Site History

The SFF is located at the northern edge of the east-west runway at Former NAS Cecil Field in Jacksonville, Florida. The SFF was used as a fuel storage facility for leaded and unleaded gasoline, aviation gasoline, diesel fuel, and jet propellant 5 (JP-5). When fully operational, the facility contained three aboveground storage tanks (ASTs), four underground storage tanks (USTs), and four earth-mounded tanks (EMTs) (Bechtel Environmental, Inc. [BEI], 1998a).

In 1983, the three ASTs were removed. In July 1994, the four USTs and three of the four EMTs were excavated. Excessively contaminated soil excavated during the tank removals was returned to the excavations. A contamination assessment was conducted by ABB Environmental Services, Inc. (ABB-ES) to determine the nature and extent of contamination as required by Chapter 62-770, FAC. A Remedial Action Plan (RAP) was submitted by ABB-ES in 1996 specifying the recommended remedial action as enhanced intrinsic remediation through bioventing and biosparging combined with an oxygen barrier wall. Subsequent to RAP submittal, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) agreed to implement remedial action activities for only the northern portion of the SFF site (BEI, 1998a). The southern portion of the bioventing and biosparging systems and the oxygen barrier were subsequently deleted from the RAP by the BCT. Soil excavation was chosen as the remedial alternative for the southern portion of the SFF site. CH2M HILL excavated 28,953 tons of petroleum-impacted soil from October 1998 to February 1999 (CH2M HILL, 2001).

BEI installed the approved bioventing and biosparging systems for the northern portion of the SFF site from December 1997 to March 1998. Startup of the bioventing and biosparging systems occurred on April 6, 1998 (BEI, 1998b). BEI performed O&M of the systems from April 1998 to April 1999. EnSafe, Inc. performed the O&M of the systems from April 1999 to May 2001. Since June 2001, CH2M HILL has conducted the system O&M.

1.3 Remediation System/Technology Description

1.3.1 Bioventing System

The bioventing system improves intrinsic bioremediation of the contaminated soil by delivering oxygen to the aerobic bacteria in the vadose zone. This is achieved via subgrade wells at a low flow rate to minimize volatilization and stimulate subgrade indigenous microbial activity (ABB-ES, 1996).

The SFF bioventing system consists of 9 two-inch diameter polyvinyl chloride (PVC) vertical bioventing wells (BV-1 through BV-9), a blower, inlet air filter, flow meter, pressure and temperature gauges, valving, piping, and system controls. The aboveground portion of the bioventing system is located in a fenced, canopy covered equipment area. The bioventing wells are screened from approximately 3 to 8 feet below land surface (bls). The bioventing system is designed to deliver air to each well at a flow rate of 4 actual cubic feet per minute (acfm) at a well head pressure of 20 inches of water (ABB-ES, 1996). The locations of the bioventing wells and equipment area are shown on Figure 1-1.

1.3.2 Biosparging System

The biosparging system is used to treat the contaminated groundwater plume at the SFF site. This treatment system promotes the optimum environment for microbial activity and growth by injecting controlled volumes of air into the groundwater below the deepest point of contamination at controlled pressures via subgrade wells (ABB-ES, 1996).

The SFF biosparging system consists of 23 two-inch diameter PVC vertical biosparging wells (BS-1 through BS-23), a rotary screw air compressor, receiver tank, air dryer, in-line moisture separator, in-line coalescing oil filter, pressure regulator/gauge, header piping,

valves, flow gauge, and system controls. The aboveground portion of the biosparging system is located in the same fenced canopy covered equipment area as the bioventing system. The biosparging wells are screened from approximately 27 to 30 feet bls. The biosparging system is designed for each well to operate at a flow rate of 1 acfm at an injection pressure of 15 pounds per square inch gauge (psig) (ABB-ES, 1996). The locations of the biosparging wells are shown on Figure 1-1.

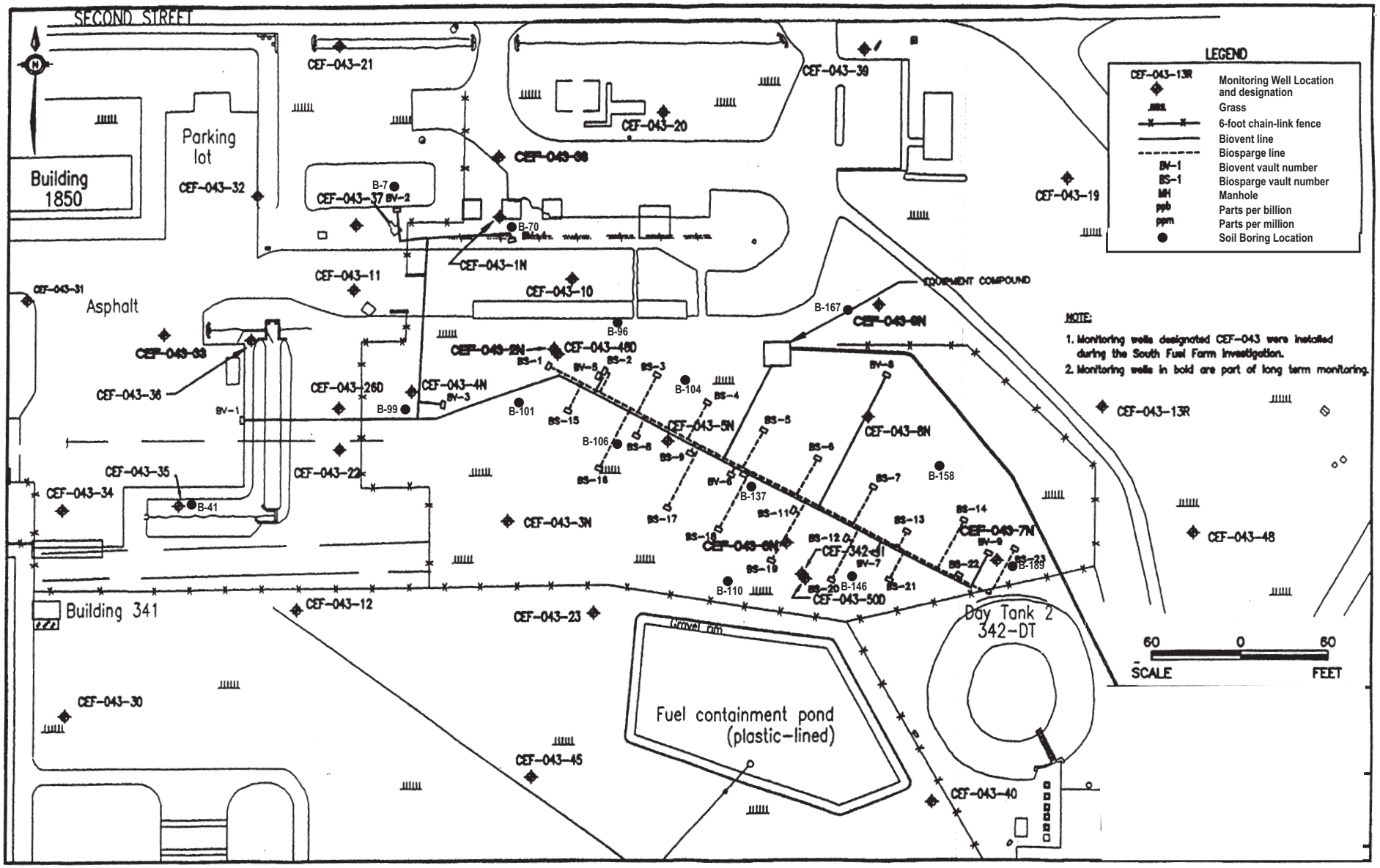

Figure 1-1
Site Plan
South Fuel Farm
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

A072003003ATL\Figure1-1.ai

2.0 System Performance Monitoring

Routine O&M checks of the system were performed weekly. During an O&M check, a preventative maintenance checklist (based upon manufacturer's recommendations) was completed, and any required maintenance activity was performed. The meters and gauges in the equipment area were read and recorded during the O&M check on a weekly basis. The meters and gauges in the bioventing and biosparging well vaults were read and recorded during the O&M check on a monthly basis.

During the O&M activities, the injection pressures and individual well air flow rates were adjusted and balanced in attempt to achieve the design specifications. These adjustments will be evaluated during the 3rd Quarter of 2005.

2.1 Operational Efficiencies

2.1.1 Bioventing System

	Operational Period	To Date
Hours of Possible Operation	8,760	63,432
Hours or Actual Operation	8,644.6	47,149.3
Percent Hours of Operation	98.7%	74.3%

2.1.2 Biosparging System

	Operational Period	To Date
Hours of Possible Operation	8,760	63,432
Hours or Actual Operation	2,999	53,157.2
Percent Hours of Operation	34.2%	83.8%

2.2 Summary of Maintenance and System Downtime

2.2.1 Bioventing System

During the July 1, 2004, to June 30, 2005, monitoring period, the bioventing system ran a total of 360.1 days out of a possible 365 days, resulting in 115.4 hours of downtime. The bioventing system downtime is detailed as follows:

- Manual system shutdown for a total of 0.2 hours to perform routine equipment maintenance

- Down for a total of 58.2 hours due to a power failure. After each occurrence the air compressor was inspected and restarted.
- Manual system shutdown for a total of 12 hours for electrical safety while troubleshooting and installation of a biosparge air compressor electric motor.
- Down for a total of 45 hours due to an electrical overload that tripped the motor starter. The electrical supply was checked and the motor starter was reset.

2.2.2 Biosparging System

During the July 1, 2004, to June 30, 2005 monitoring period, the biosparging system ran a total of 124.9 days out of a possible 365 days, resulting in 5,761 hours of downtime. The biosparging system downtime is detailed as follows:

- Down for a total of 1,571.8 hours due to a high temperature alarm on the biosparging air compressor. After each occurrence the air compressor was inspected and restarted.
- Down for a total of 267.1 hours due to a broken belt on the biosparging air compressor. New belts were installed and air compressor was inspected and restarted.
- Down for a total of 509.8 hours due to power interruptions. After each occurrence, the air compressor was inspected and restarted.
- Down for a total of 1,268 hours due to damaged motor starter contactor, auxiliary switch, and blown fuses on the biosparging air compressor. New motor starter contactor, auxiliary switch, and fuses were installed and air compressor was inspected and restarted.
- Electric motor failure on the biosparging air compressor and installation of a new motor resulting in a total of 1447.7 hours of downtime.
- Down for a total of 693.6 hours due to a motor fault alarm on the biosparging air compressor. After each occurrence the air compressor was inspected and restarted.
- Manual system shutdown for a total of 3 hours to perform routine equipment maintenance.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Bioventing System

During the July 1, 2004, to June 30, 2005, monitoring period, the blower discharge pressure averaged 46.4 inches of water compared to the design blower discharge pressure of 40 inches of water. The total air injection flow rate at the blower averaged 74 standard cubic feet per minute (scfm) compared to the design blower flow rate of 80 scfm. Bioventing system data is summarized in Table 2-1.

TABLE 2-1
Bioventing System Data

Date	Blower Discharge Pressure (inches of water)	Blower Discharge Temperature (^oF)	Blower Air Flow Rate (scfm)
07/01/2004	46	138	75
07/13/2004	46	135	75
07/20/2004	46	137	75
07/27/2004	48	140	75
08/05/2004	48	134	75
08/11/2004	48	130	75
08/19/2004	45	128	75
08/25/2004	50	134	72
08/31/2004	48	140	73
09/09/2004	48	145	50
09/15/2004	58	142	60
09/22/2004	52	130	65
09/27/2004	56	140	50
10/07/2004	51	144	60
10/15/2004	49	122	70
10/21/2004	50	130	70
10/26/2004	48	125	70
11/05/2004	48	118	70
11/12/2004	45	120	72
11/18/2004	49	116	74
11/24/2004	47	125	72
11/29/2004	46	116	74
12/03/2004	49	108	74
12/08/2004	47	130	72
12/15/2004	48	96	75
12/23/2004	47	115	70
12/30/2004	48	115	72
01/06/2005	49	118	74
01/13/2005	47	124	70
01/21/2005	42	120	80
01/28/2005	44	92	79
02/04/2005	42	98	80
02/11/2005	43	104	80
02/23/2005	42	120	79
02/28/2005	42	110	79
03/03/2005	52	100	70
03/11/2005	44	114	79
03/18/2005	50	95	75
03/23/2005	48	122	74
03/31/2005	42	125	76

TABLE 2-1
Bioventing System Data

Date	Blower Discharge Pressure (inches of water)	Blower Discharge Temperature (^oF)	Blower Air Flow Rate (scfm)
04/08/2005	44	120	77
04/12/2005	44	122	77
04/21/2005	43	124	79
04/29/2005	43	122	79
05/06/2005	44	106	80
05/12/2005	44	129	80
05/20/2005	43	129	79
05/27/2005	44	130	79
05/31/2005	43	100	79
06/10/2005	43	122	77
06/17/2005	42	136	76
06/24/2005	43	119	77
06/30/2005	44	128	75

^oF - degrees Fahrenheit
scfm - standard cubic feet per minute

2.3.2 Biosparging System

During the July 1, 2004, to June 30, 2005, monitoring period, the injection header discharge pressure averaged 13.6 pounds per square inch (psig), which is similar to the design injection pressure of 15 psig. The biosparging system data is tabulated in Table 2-2.

TABLE 2-2
Biosparging System Data

Date	Air Compressor Supply Pressure (psig)	Air Compressor Discharge Temperature (^oF)	Receiver Tank Supply Pressure (psig)	Header Discharge Pressure (psig)
07/01/2004	100	190	100	14
07/13/2004	90	185	85	15
07/20/2004	90	190	80	15.5
07/27/2004	70	190	55	16
08/05/2004	80	185	70	16
08/11/2004	75	185	60	16.5
08/19/2004	105	200	95	15
08/25/2004	90	190	80	15
08/31/2004	105	190	95	11
09/09/2004	NM	NM	NM	NM
09/15/2004	105	190	100	12
09/22/2004	98	180	95	11
09/27/2004	NM	NM	NM	NM
10/07/2004	NM	NM	NM	NM
10/15/2004	NM	NM	NM	NM
10/21/2004	NM	NM	NM	NM

TABLE 2-2
Biosparging System Data

Date	Air Compressor Supply Pressure (psig)	Air Compressor Discharge Temperature (^oF)	Receiver Tank Supply Pressure (psig)	Header Discharge Pressure (psig)
10/26/2004	NM	NM	NM	NM
11/05/2004	NM	NM	NM	NM
11/12/2004	NM	NM	NM	NM
11/18/2004	105	175	100	13
11/24/2004	105	200	95	12.5
11/29/2004	NM	NM	NM	NM
12/03/2004	85	195	70	13
12/08/2004	75	200	65	14
12/15/2004	110	185	100	14
12/23/2004	105	210	100	14.5
12/30/2004	NM	NM	NM	NM
01/06/2005	NM	NM	NM	NM
01/13/2005	NM	NM	NM	NM
01/21/2005	NM	NM	NM	NM
01/28/2005	NM	NM	NM	NM
02/04/2005	NM	NM	NM	NM
02/11/2005	NM	NM	NM	NM
02/23/2005	100	200	100	13
02/28/2005	105	200	100	15
03/03/2005	100	190	90	16
03/11/2005	160	205	90	12
03/18/2005	106	180	100	13
03/23/2005	105	215	100	13
03/31/2005	100	215	100	13
04/08/2005	100	190	85	13
04/12/2005	110	210	100	12
04/21/2005	100	215	90	12
04/29/2005	105	215	100	12
05/06/2005	110	195	105	12.5
05/12/2005	100	195	90	13
05/20/2005	95	225	105	12
05/27/2005	105	210	100	13
05/31/2005	100	180	100	12
06/10/2005	100	180	90	17
06/17/2005	95	200	85	16.5
06/24/2005	95	210	90	17
06/30/2005	100	190	95	15

psig - pounds per square inch gauge
^oF - degrees Fahrenheit
NM - Not Measured due to motor failure, blown fuses, or damaged motor starter

2.4 Water Level Measurements

Depth to groundwater measurements were recorded on a monthly basis from 20 monitoring wells during the July 1, 2004, to June 30, 2005, monitoring period. The results of the groundwater level measurements are provided in Table 2-3. Light non-aqueous phase liquid (LNAPL) was not detected in monitoring wells during the July 1, 2004, to June 30, 2005, monitoring period.

The potentiometric surface of the site groundwater based on June 25, 2004, water levels is depicted on Figure 2-1. In general, the groundwater flow in the vicinity of the bioventing and biosparging systems is to the south.

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-1N	07/27/2004	78.15	8.06	70.09
	08/26/2004		6.57	71.58
	09/30/2004		6.21	71.94
	10/26/2004		7.25	70.90
	11/24/2004		8.92	69.23
	12/23/2004		9.08	69.07
	01/28/2005		8.59	69.56
	02/28/2005		8.95	69.20
	03/31/2005		8.10	70.05
	04/29/2005		7.83	70.32
	05/31/2005		8.55	69.60
	06/30/2005		7.50	70.65
CEF-043-2N	07/27/2004	78.00	8.15	69.85
	08/26/2004		6.95	71.05
	09/30/2004		6.27	71.73
	10/26/2004		7.27	70.73
	11/24/2004		8.94	69.06
	12/23/2004		9.14	68.86
	01/28/2005		8.36	69.64
	02/28/2005		8.75	69.25
	03/31/2005		7.98	70.02
	04/29/2005		7.72	70.28
	05/31/2005		8.42	69.58
	06/30/2005		7.08	70.92
CEF-043-3N	07/27/2004	78.26	8.87	69.39
	08/26/2004		7.63	70.63
	09/30/2004		7.41	70.85
	10/26/2004		8.02	70.24
	11/24/2004		9.36	68.90
	12/23/2004		9.54	68.72
	01/28/2005		8.91	69.35
	02/28/2005		9.45	68.81

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-3N	03/31/2005		8.45	69.81
	04/29/2005		8.31	69.95
	05/31/2005		9.05	69.21
	06/30/2005		7.25	71.01
CEF-043-4N	07/27/2004	78.07	8.30	69.77
	08/26/2004		6.95	71.12
	09/30/2004		6.52	71.55
	10/26/2004		7.25	70.82
	11/24/2004		8.88	69.19
	12/23/2004		9.07	69.00
	01/28/2005		8.48	69.59
	02/28/2005		9.00	69.07
	03/31/2005		8.00	70.07
CEF-043-4N	04/29/2005		7.69	70.38
	05/31/2005		8.60	69.47
	06/30/2005		7.42	70.65
CEF-043-5N	07/27/2004	78.46	9.01	69.45
	08/26/2004		7.74	70.72
	09/30/2004		7.19	71.27
	10/26/2004		8.00	70.46
	11/24/2004		9.49	68.97
	12/23/2004		9.95	68.51
	01/28/2005		8.91	69.55
	02/28/2005		9.40	69.06
	03/31/2005		8.57	69.89
	04/29/2005		7.20	71.26
	05/31/2005		8.86	69.60
	06/30/2005		7.82	70.64
CEF-043-6N	07/27/2004	77.79	8.51	69.28
	08/26/2004		7.22	70.57
	09/30/2004		6.34	71.45
	10/26/2004		7.51	70.28
	11/24/2004		8.53	69.26
	12/23/2004		9.30	68.49
	01/28/2005		8.16	69.63
	02/28/2005		8.65	69.14
	03/31/2005		7.90	69.89
	04/29/2005		7.45	70.34
	05/31/2005		8.12	69.67
	06/30/2005		6.44	71.35
CEF-043-7N	07/27/2004	77.61	8.18	69.43
	08/26/2004		7.00	70.61
	09/30/2004		5.59	72.02
	10/26/2004		6.85	70.76
	11/24/2004		8.26	69.35

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-7N	12/23/2004		9.04	68.57
	01/28/2005		8.04	69.57
	02/28/2005		8.61	69.00
	03/31/2005		7.10	70.51
	04/29/2005		6.27	71.34
	05/31/2005		7.22	70.39
	06/30/2005		6.42	71.19
CEF-043-8N	07/27/2004	78.41	8.57	69.84
	08/26/2004		7.76	70.65
	09/30/2004		6.20	72.21
	10/26/2004		7.89	70.52
	11/24/2004		8.93	69.48
	12/23/2004		9.53	68.88
CEF-043-8N	01/28/2005		8.71	69.70
	02/28/2005		9.22	69.19
	03/31/2005		8.12	70.29
	04/29/2005		7.49	70.92
	05/31/2005		8.60	69.81
	06/30/2005		7.48	70.93
CEF-043-9N	07/27/2004	77.50	7.22	70.48
	08/26/2004		6.27	71.43
	09/30/2004		4.77	72.93
	10/26/2004		6.94	70.76
	11/24/2004		7.83	69.87
	12/23/2004		8.30	69.40
	01/28/2005		7.93	69.77
	02/28/2005		8.32	69.38
	03/31/2005		7.02	70.68
	04/29/2005		6.43	71.27
	05/31/2005		7.63	70.07
	06/30/2005		5.85	71.85
CEF-043-10	07/27/2004	78.55	8.57	69.98
	08/26/2004		7.21	71.34
	09/30/2004		6.67	71.88
	10/26/2004		7.68	70.87
	11/24/2004		9.33	69.22
	12/23/2004		9.05	69.50
	01/28/2005		8.98	69.57
	02/28/2005		9.40	69.15
	03/31/2005		8.52	70.03
	04/29/2005		8.21	70.34
	05/31/2005		9.00	69.55
	06/30/2005		8.00	70.55
CEF-043-19	07/27/2004	78.47	NM	NM
	08/26/2004		NM	NM

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-19	09/30/2004		NM	NM
	10/26/2004		NM	NM
	11/24/2004		NM	NM
	12/23/2004		NM	NM
	01/28/2005		NM	NM
	02/28/2005		NM	NM
	03/31/2005		8.05	70.42
	04/29/2005		7.34	71.13
	05/31/2005		NM	NM
	06/30/2005		NM	NM
CEF-043-20	07/27/2004	78.59	7.97	70.62
	08/26/2004		6.11	72.48
	09/30/2004		5.88	72.71
CEF-043-20	10/26/2004		NM	NM
	11/24/2004		NM	NM
	12/23/2004		NM	NM
	01/28/2005		NM	NM
	02/28/2005		NM	NM
	03/31/2005		8.25	70.34
	04/29/2005		7.90	70.69
	05/31/2005		8.55	70.04
	06/30/2005		7.71	70.88
CEF-043-21	07/27/2004	76.71	6.31	70.40
	08/26/2004		4.90	71.81
	09/30/2004		4.57	72.14
	10/26/2004		5.55	71.16
	11/24/2004		6.94	69.77
	12/23/2004		7.13	69.58
	01/28/2005		6.56	70.15
	02/28/2005		6.92	69.79
	03/31/2005		6.32	70.39
	04/29/2005		6.36	70.35
	05/31/2005		6.80	69.91
	06/30/2005		5.09	71.62
CEF-043-22	07/27/2004	77.24	7.37	69.87
	08/26/2004		6.21	71.03
	09/30/2004		5.76	71.48
	10/26/2004		6.50	70.74
	11/24/2004		8.02	69.22
	12/23/2004		7.92	69.32
	01/28/2005		7.50	69.74
	02/28/2005		7.92	69.32
	03/31/2005		7.12	70.12
	04/29/2005		7.15	70.09
	05/31/2005		7.64	69.60

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-22	06/30/2005		5.91	71.33
CEF-043-32	07/27/2004	76.53	6.25	70.28
	08/26/2004		5.17	71.36
	09/30/2004		4.58	71.95
	10/26/2004		5.42	71.11
	11/24/2004		6.97	69.56
	12/23/2004		6.96	69.57
	01/28/2005		6.47	70.06
	02/28/2005		6.90	69.63
	03/31/2005		6.30	70.23
	04/29/2005		6.30	70.23
	05/31/2005		6.75	69.78
	06/30/2005		5.23	71.30
CEF-043-33	07/27/2004	76.97	6.79	70.18
	08/26/2004		5.91	71.06
	09/30/2004		5.13	71.84
	10/26/2004		5.95	71.02
	11/24/2004		7.50	69.47
	12/23/2004		7.15	69.82
	01/28/2005		6.92	70.05
	02/28/2005		7.27	69.70
	03/31/2005		6.66	70.31
	04/29/2005		6.75	70.22
	05/31/2005		7.10	69.87
	06/30/2005		5.66	71.31
CEF-043-34	07/27/2004	76.84	NM	NM
	08/26/2004		NM	NM
	09/30/2004		NM	NM
	10/26/2004		NM	NM
	11/24/2004		NM	NM
	12/23/2004		NM	NM
	01/28/2005		NM	NM
	02/28/2005		NM	NM
	03/31/2005		NM	NM
	04/29/2005		6.63	70.21
	05/31/2005		NM	NM
	06/30/2005		5.14	71.70
CEF-043-38	07/27/2004	77.62	7.39	70.23
	08/26/2004		5.78	71.84
	09/30/2004		5.62	72.00
	10/26/2004		6.63	70.99
	11/24/2004		8.14	69.48
	12/23/2004		8.45	69.17
	01/28/2005		7.93	69.69
	02/28/2005		8.30	69.32

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAVD)	Depth to Water (feet bls)	Water Level Elevation (feet NAVD)
CEF-043-38	03/31/2005		7.45	70.17
	04/29/2005		7.23	70.39
	05/31/2005		7.95	69.67
	06/30/2005		6.87	70.75
CEF-043-48	07/27/2004	77.10	7.80	69.30
	08/26/2004		10.05	67.05
	09/30/2004		5.09	72.01
	10/26/2004		6.80	70.30
	11/24/2004		7.19	69.91
	12/23/2004		8.77	68.33
	01/28/2005		7.78	69.32
	02/28/2005		8.19	68.91
	03/31/2005		6.81	70.29
CEF-043-48	04/29/2005		6.17	70.93
	05/31/2005		7.46	69.64
	06/30/2005		5.07	72.03
CEF-043-50D	07/27/2004	77.23	10.11	67.12
	08/26/2004		9.10	68.13
	09/30/2004		7.94	69.29
	10/26/2004		7.61	69.62
	11/24/2004		9.31	67.92
	12/23/2004		10.12	67.11
	01/28/2005		8.96	68.27
	02/28/2005		9.30	67.93
	03/31/2005		8.85	68.38
	04/29/2005		8.75	68.48
	05/31/2005		8.85	68.38
	06/30/2005		9.11	68.12

bls = below ground surface
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
LNAPL = light non-aqueous phase liquid
Depth to LNAPL measured from top of casing
Depth to water measured from top of casing
NM = not measured

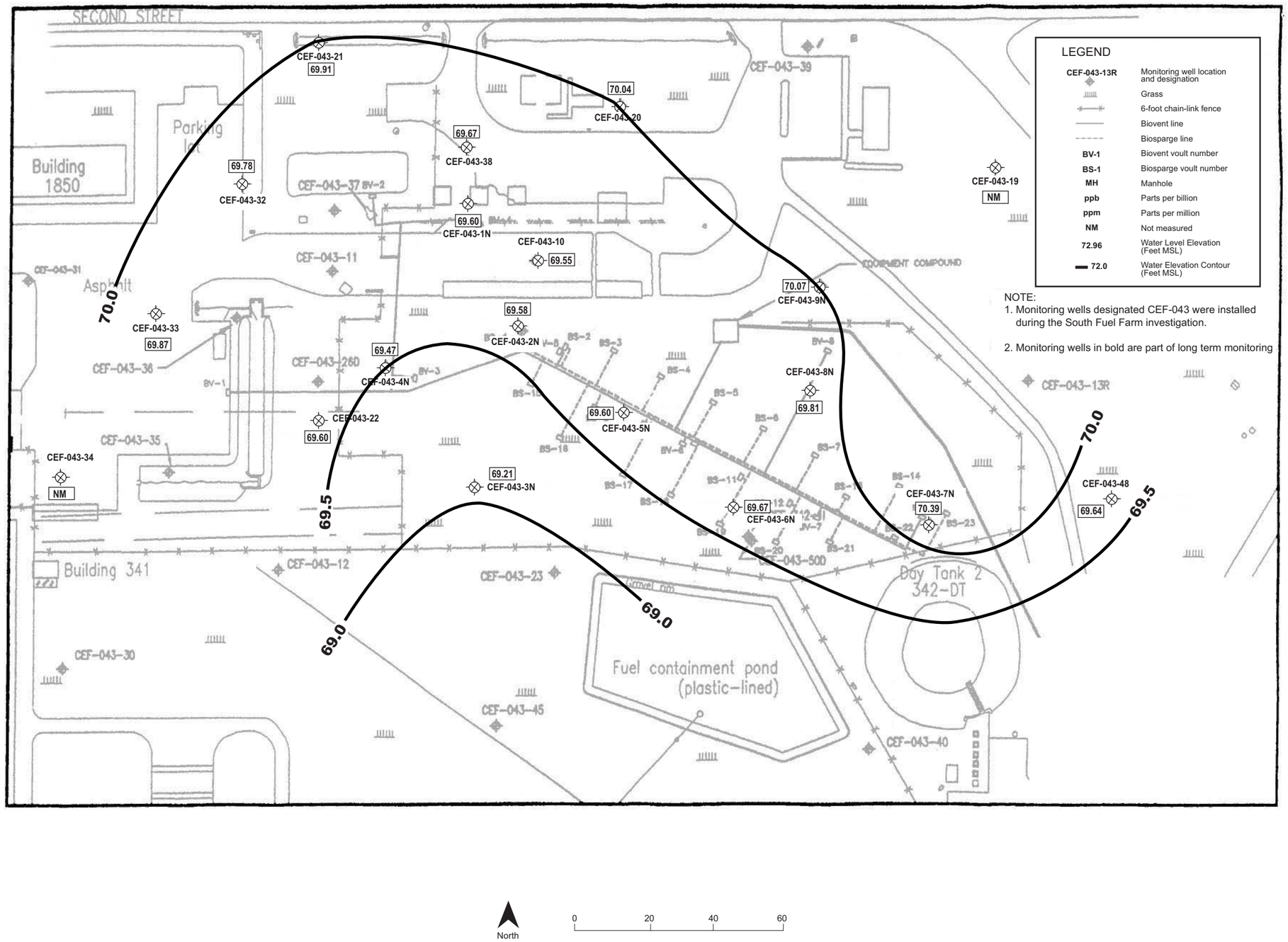

Figure 2-1
Potentiometric Surface Map - May 31, 2005
South Fuel Farm
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

A082005003ATL/Cecil100.ai

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Soil Monitoring

Soil screening and sampling is conducted on an annual basis in the 4th quarter of each year. The 2004/2005 annual soil screening and sampling event was performed on December 7, 2004. The 4th quarter 2004 soil sampling activities and results are discussed in detail in the 3rd and 4th Quarters 2004 O&M Status Report (CH2M HILL, June 2005). The 4th quarter 2004 analytical results are summarized in Table 3-1. The soil boring locations are shown on Figure 1-1. Historical soil analytical results are presented in Table A-1 of Appendix A.

The results indicated that total recoverable petroleum hydrocarbons (TRPH) was detected at concentrations that exceeded the Leachability based on Groundwater Criteria and the Direct Exposure Residential SCTLs in soil samples from four boring locations (B-31, B-41, B-96, and B-167). In addition, benzo(a)pyrene in boring B-158 exceeded the Direct Exposure Residential SCTL; 1-methylnaphthalene in borings B-31, B-98, and B-167 exceeded the Direct Exposure Residential SCTL; ethylbenzene, xylenes (total), and 1-methylnaphthalene in boring B-31 exceeded the Direct Exposure Residential SCTL; and naphthalene, 1-methyl-naphthalene, and 2-methylnaphthalene in boring B-96 exceeded the Leachability based on Groundwater Criteria SCTLs. In general, with the exception of TRPH, this is the first occurrence of these parameters being detected in borings at concentrations above the regulatory standard. The TRPH values at soil borings B-31, B-41 and B-96 have increased one to two orders of magnitude since the baseline soil sampling event (March 1999).

3.2 Groundwater Monitoring

CH2M HILL conducted the 2004/2005 annual groundwater sampling event on June 16, 2005; this sampling event is conducted on an annual basis in the 2nd quarter of each year. Groundwater samples were collected from six monitoring wells (CEF-43-2N, -6N, -7N, -9N, -33N, and -38N) and analyzed for the following parameters: volatile organic compounds (VOCs) by U.S. Environmental Protection Agency (USEPA) Methods 624 and 8021B, polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8310, lead by USEPA Method 6010B, and TRPH by the Florida Petroleum Residual Organic (FL-PRO) method. The 2004/2005 annual groundwater analytical results are summarized in Table 3-2. The historical groundwater analytical results of parameters with exceedances of GCTLs are presented in Table A-2 of Appendix A. The analytical laboratory and data validation reports for the groundwater sampling event are provided in Appendix B.

Field tests were performed on the headspace from selected monitoring wells on a monthly basis to evaluate indications of biological activity and influence of the bioventing and biosparging systems. The headspace in each monitoring well was tested for percent methane, percent carbon dioxide, percent oxygen, pressure, and total hydrocarbons (using an organic vapor analyzer [OVA]). The groundwater in each monitoring well was tested for

pH, conductivity, turbidity, dissolved oxygen, temperature, and pH. The results of the field tests are summarized in Table 3-3.

Lead and TRPH were the only parameters detected at a concentration above the GCTLs during the well 2004/2005 annual sampling event. The exceedance of lead was detected in the groundwater sample from well CEF 43-6N and TRPH was detected in the groundwater sample from well CEF43-2N. In general, parameter concentrations from the 2004/2005 annual event decreased one to three orders of magnitude when compared to the baseline and previous sampling events conducted from March 1998 to May 2002 (See Table A-2 in Appendix A). Based on an evaluation of historical groundwater data, it appears that the biosparging and bioventing systems are successful in reducing contaminant concentrations in groundwater.

Methane, carbon dioxide, and oxygen levels are measured as an indication of biological activity. Elevated levels of methane were not observed during the 2003/2004 sampling period. Elevated carbon dioxide levels and less than ambient oxygen levels were noted in most of the monitoring wells, indicating biological activity is occurring. Pressure is measured as an indication of the influence of the bioventing and biosparging systems. Significant pressure readings above ambient atmospheric pressure were not noted in monitoring wells. OVA readings are measured as an indication of the levels of hydrocarbons still present. Elevated hydrocarbon levels (OVA readings greater than 50 parts per million [ppm]) were noted in monitoring wells CEF-043-2N and CEF-043-4N. Elevated OVA readings have not been detected since October 2004, indicating the hydrocarbon levels are decreasing.

The basic water quality parameters pH, conductivity, temperature, and turbidity indicate conditions acceptable for biological activity. The dissolved oxygen levels were greater than 1 milligram per liter (mg/L), which indicates that sufficient oxygen is present for aerobic biological activity.

TABLE 3-1
Soil Analytical Results
South Fuel Farm; Annual 2004-2005

Station ID	Sample ID	Sample Depth (ft bgs)	Sample Date	Benzene	Ethylbenzene	Toluene	Xylenes, total	tert-butyl methyl ether (MTBE)	Naphthalene	1-methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Indeno(1,2,3-c,d)pyrene	Dibenz(a,h)anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	petroleum hydrocarbons (TRPH)
Leachability from GW Criteria[1]				0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	2.1	27	2500	3.2	8	10	25	32000	77	28	30	160	1200	250	880	340
Direct Exposure Residential[1]				1.1	1100	380	5900	3200	40	68	80	1900	1100	18000	1.4	0.1	1.4	15	2300	140	1.5	0.1	2200	2900	2000	2200	340
Units in mg/kg																											
B7	86-B7-S-1207-04	2	12/07/2004	0.00504 U	0.00504 U	0.00504 U	0.0101 U	0.00504 U	0.00914 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00914 U	0.00363 U	0.0184 U	0.00363 U	0.00363 U	0.00363 U	35 JB
B31	86-B31-S-1207-04	2	12/07/2004	0.461 U	1.04	0.278 J	6.81	0.461 U	1.2	4.18	3.49	0.392 U	0.392 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0978 U	0.0389 U	0.0531 J	0.0389 U	0.0389 U	0.0389 U	**1440 JB**
B41	86-B41-S-1207-04	4	12/07/2004	0.242 U	0.242 U	0.242 U	0.484 U	0.242 U	0.0145	0.0628	0.0394 U	0.0394 U	0.0394 U	0.0039 U	0.0443	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.00981 U	0.0039 U	0.0197 U	0.0256	0.0039 U	0.0717	**3200 JB**
B70	86-B70-S-1207-04	4	12/07/2004	0.00465 U	0.00465 U	0.00465 U	0.00929 U	0.00465 U	0.00853 U	0.0342 U	0.0342 U	0.0342 U	0.0342 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00853 U	0.00339 U	0.0172 U	0.00339 U	0.00339 U	0.00339 U	9.33 JB
B96	86-B96-S-1207-04	4	12/07/2004	0.216 U	0.216 U	0.216 U	0.433 U	0.216 U	8.19 J	15.5 J	24.5 J	0.339 U	0.772 J	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0846 U	0.0336 U	0.649 J	0.0336 U	0.0336 U	0.455 J	**59600 JB**
B99	86-99-S-1207-04	4	12/07/2004	0.235 U	0.235 U	0.235 U	0.47 U	0.235 U	0.00887 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.071	0.00353 U	0.00887 U	0.0325	0.0179 U	0.00353 U	0.00353 U	0.00353 U	20 JB
B101	86-B101-S-1207-04	4	12/07/2004	0.00477 U	0.00477 U	0.00477 U	0.0012 J	0.00477 U	0.00916 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00916 U	0.00364 U	0.0184 U	0.00364 U	0.00364 U	0.00364 U	67.7 JB
B104	86-B104-S-1207-04	4	12/07/2004	0.00495 U	0.00495 U	0.00495 U	0.00989 U	0.00495 U	0.00872 U	0.035 U	0.035 U	0.035 U	0.035 U	0.00347 U	0.0351	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.00872 U	0.00347 U	0.0175 U	0.00347 U	0.00347 U	0.00347 U	12.6 JB
B106	86-B106-S-1207-04	4	12/07/2004	0.00447 U	0.00447 U	0.00447 U	0.00895 U	0.00447 U	0.00854 U	0.0343 U	0.0343 U	0.0343 U	0.0343 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.00854 U	0.0034 U	0.0172 U	0.0034 U	0.0034 U	0.0034 U	6.91 JB
B110	86-B110-S-1207-04	2	12/07/2004	0.00466 U	0.00466 U	0.00466 U	0.00932 U	0.00466 U	0.00867 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00867 U	0.00345 U	0.0174 U	0.00345 U	0.00345 U	0.00345 U	7.85 JB
B137	86-B137-S-1207-04	4	12/07/2004	0.255 U	0.255 U	0.255 U	0.51 U	0.255 U	0.00891 U	0.0358 U	0.0358 U	0.0358 U	0.0358 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00891 U	0.00354 U	0.0179 U	0.00354 U	0.00354 U	0.103	14.9 JB
B146	86-B146-S-1207-04	4	12/08/2004	0.0047 U	0.0047 U	0.0047 U	0.00362 J	0.0047 U	0.00871 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.00346 U	0.0178	0.00346 U	0.00346 U	0.00567	0.0074	0.00346 U	0.00991	0.026	0.0175 U	0.00346 U	0.00346 U	0.00346 U	43.5 JB
B158	86-B158-S-1207-04	2	12/08/2004	0.00469 U	0.00111 J	0.00469 U	0.00333 J	0.00469 U	0.00862 U	0.0346 U	0.0346 U	0.0325 J	0.0346 U	0.00354	0.204	**0.113**	0.0867	0.145	0.0493	0.057	0.0518	0.048	0.0173 U	0.0344	0.0101	0.0701	63.5 JB
B167	86-B167-S-1207-04	2	12/08/2004	0.235 U	0.235 U	0.235 U	0.469 U	0.235 U	0.533 J	5.91 J	1.98 J	0.0362 U	0.0362 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00903 U	0.00359 U	0.0182 U	0.00359 U	0.233 J	0.00359 U	**1840 JB**
B189	86-B189-S-1207-04	4	12/08/2004	0.00174 J	0.00106 J	0.00333 J	0.0118	0.00497 U	0.00874 U	0.0351 U	0.0351 U	0.0351 U	0.0351 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00874 U	0.00348 U	0.0176 U	0.00348 U	0.00348 U	0.00348 U	57.9 JB

Notes:
All concentrations reported in micrograms per kilogram (mg/kg) unless otherwise noted.
1 = Ch 62-777 FAC Soil Cleanup Target Level (SCTLs) reported in mg/kg
U - The analyte was analyzed for, but not detected.
J - Result is estimated.
JB- Estimate value. The analyte was detected in the associated method and/or calibration blank.
Bold values indicates concentration exceeds Residential Direct Exposure Limit
Shaded values indicate compounds that exceed Leachability based on Groundwater Criteria.
Bold and Shaded values indicate compounds that exceed both SCTL and Leachability based on Groundwater Criteria.
NA - Not available at time of rule adoption

TABLE 3-2

Groundwater Analytical Results
South Fuel Farm; Annual 2004-2005

		GCTL[1]	1	30	20	40	5	20	20	20	15	5000
		NADC[1]	10	300	200	400	50	200	200	200	150	50000
Station ID	**Sample ID**	**Sample Date**	Benzene	Ethylbenzene	Xylenes, total	Toluene	Methylene chloride	1-methylnaphthalene	2-Methylnaphthalene	Naphthalene	Lead	Petroleum Hydrocarbons
			micrograms per Liter (ug/L)									
CEF-043-2N	86-CEF43-2N-Q2-05	06/16/2005	5 U	7.2	7.7 J	5 U	10 U	4.01 J	2.5	2.01 J	15 U	**9170 JB**
CEF-043-6N	86-CEF43-6N-Q2-05	06/16/2005	5 U	5 U	10 U	5 U	10 U	1 U	1 U	0.25 U	**17**	1100 JB
CEF-043-7N	86-CEF43-7N-Q2-05	06/16/2005	5 U	5 U	10 U	5 U	10 U	1 U	1 U	0.25 U	15 U	184 JB
CEF-043-9N	86-CEF43-9N-Q2-05	06/16/2005	5 U	7.9	19.4	5 U	10 U	7.87 J	1.7	11.9	15 U	3170 JB
CEF-043-33N	86-CEF43-33N-Q2-05	06/16/2005	5 U	5 U	10 U	5 U	1.05 J	1 U	1 U	0.25 U	15 U	175 JB
CEF-043-38N	86-CEF43-38N-Q2-05	06/16/2005	5 U	5 U	10 U	5 U	10 U	1 U	1 U	0.25 U	15 U	183 JB

All concentrations reported in micrograms per liter (ug/L).

GCTL - Groundwater Cleanup Target Level

NADC - Natural Attenuation Default Concentration

1 = Ch 62-777 FAC Groundwater Cleanup Target Levels (GCTLs) reported in µg/L

U - The analyte was analyzed for , but not detected.

J - Result is estimated

JB- Estimate value..The analyte was detected in the associated method and/or calibration blank.

Bold indicates concentration exceeds Groundwater Target Cleanup Level

TABLE 3-3
Field Test Results
South Fuel Farm; Annual 2004/2005

		Air					Groundwater					
Well Identification	**Sample Date**	**Methane (%)**	**Carbon Dioxide (%)**	**Oxygen (%)**	**Pressure (in Hg)**	**OVA (ppm)**	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temperature (°C)**	**ORP (mV)**
CEF-043-1N	07/27/2004	0	3.8	16.5	29.9	7.1	5.76	0.24	37	4.21	25.1	163
	08/26/2004	0	2.8	17.9	29.9	4.3	5.75	0.31	42	4.07	26.4	118
	09/30/2004	0	4.9	16.5	29.9	3.8	5.82	0.38	59	3.7	27.1	139
	10/26/2004	0.2	3.2	16.8	30	1.2	6.56	0.31	6.1	4.02	25.4	151
	11/24/2004	0	3.8	16.7	29.9	1.71	6.39	0.27	15	3.42	25.1	177
	12/23/2004	0	3.5	19.4	30	1.53	5.98	0.22	36	3.76	25.3	108
	01/28/2005	0	3	17.2	29.9	1	6.03	0.24	20	3.32	21.1	207
	02/28/2005	0	2.5	13.3	29.7	1	6.65	0.38	9.1	7.42	20.3	-135
	03/31/2005	0	3.7	13.5	29.6	0	4.59	0.38	1.4	6.11	20.4	-19
	04/29/2005	0	5.3	13	30	0	6.14	0.34	21.9	11.7	21.5	319
	05/31/2005	0	6.5	12.9	29.8	0.3	6.2	0.25	43.3	21..	22.5	-168
	06/30/2005	0	8.4	9.9	29.4	0.1	6.36	0.32	0	3.16	23.8	-162
CEF-043-2N	07/27/2004	0	7.1	11.7	29.9	214	5.81	0.24	16.7	3.62	25.3	-115
	08/26/2004	0	6.2	13.5	30	173	5.77	0.3	47.5	3.53	26.7	-19
	09/30/2004	0	5	14.9	29.9	134	5.85	0.24	23	2.44	27.3	-33
	10/26/2004	0.2	4.8	16.2	30	0.6	6.07	0.24	47	2.79	25.8	57
	11/24/2004	0	5.9	15.9	29.9	59	5.98	0.3	34	2.58	25.2	-124
	12/23/2004	0	4.2	16.2	29.9	46	5.65	0.21	57	3.97	25.4	-107
	01/28/2005	0	5.3	17.1	29.9	18	6.31	0.24	22	3.92	21.6	61
	02/28/2005	0	4.8	15.3	29.6	32	6.34	0.2	64.8	5.41	20.9	108
	03/31/2005	0	10.5	12.6	29.7	0	4.39	0.2	5.6	7.84	20.8	155
	04/29/2005	0	7.5	14.1	30	0	5.72	0.2	37.5	12.5	21.7	284
	05/31/2005	0	7.1	14.1	29.7	0.1	5.8	0.13	11	1.4	22.7	-41
	06/30/2005	0	6.7	12.1	29.4	0	6.32	0.27	40.5	5.84	24.4	49
CEF-043-3N	07/27/2004	0	3.5	14.6	29.9	2.11	5.07	0.03	28.4	4.39	25	224
	08/26/2004	0	2.8	16.7	30	1	5.37	0.07	22.5	4.21	26.1	181
	09/30/2004	0	4.9	14.1	30	1.3	5.22	0.07	28.9	2.95	27.1	197
	10/26/2004	0.2	2	18.2	30	1.28	5.37	0.05	89	4.15	24.8	228
	11/24/2004	0	2.7	18.6	29.9	0	5.33	0.05	126	2.79	25.1	101
	12/23/2004	0	2.2	19.1	30	0.31	5.27	0.06	74	3.91	25.3	116
	01/28/2005	0	1.1	20.9	29.9	0.49	5.09	0.04	33.1	3.23	21.7	138
	02/28/2005	0	2.8	18.4	29.7	0	6.09	0.04	13.2	7.75	20.5	218
	03/31/2005	0	3.6	16.8	29.7	0	4.08	0.04	2.7	6.25	20.3	390
	04/29/2005	0	3.5	17.5	30	0	4.92	0.06	15.7	15.4	21	336
	05/31/2005	0	3.2	17.5	29.8	0	5.08	0.03	74.4	1.98	22.2	222
	06/30/2005	0	5.7	14.4	29.5	3.8	5.76	0.08	128	6.54	24.2	185
CEF-043-4N	07/27/2004	0	9.6	1.2	30	8000+	5.86	0.43	27.8	2.63	25.1	8
	08/26/2004	0	8.6	6.1	30	8000+	5.78	0.5	17	2.91	26.3	25
	09/30/2004	0	7.2	8.2	29.9	3670	5.81	0.51	24	2.18	27.2	-17
	10/26/2004	0.2	10.5	6.6	30.1	0	6.23	0.65	2.1	2.97	25.1	-123

CEF-043-4N	11/24/2004	0	10.3	4.2	29.9	8.7	5.89	0.53	23.9	3.21	25.1	30
	12/23/2004	0.5	9.4	5.8	29.9	37.9	5.71	0.52	21.1	2.31	25.3	89
	01/28/2005	0.1	5.8	16.8	29.9	0.52	5.98	0.51	9	2.18	21.4	66
	02/28/2005	0	5.6	14.1	29.6	0.2	6.08	0.47	27.5	6	20.6	8
	03/31/2005	0	3.9	13.9	29.6	0	4.45	0.54	11.9	6.51	20.4	-3
	04/29/2005	0	8.3	8.6	30	0	5.39	0.65	8.7	12	21.2	230
	05/31/2005	0	6.8	13.1	29.7	0	6.05	0.4	45.6	3.08	22.3	-177
	06/30/2005	0	7.7	12.6	29.4	5.3	6.03	0.47	13.2	3.19	23.7	-107
CEF-043-5N	07/27/2004	0	0	20.4	29.9	3.55	4.89	0.06	17.6	8.7	25.2	220
	08/26/2004	0	0	19.6	30	1	5.47	0.08	15	8.09	26.2	122
	09/30/2004	0	0	20.2	30	1.3	5.28	0.06	31	4.18	27.3	157
	10/26/2004	0.2	0.1	19.7	30	2.4	5.72	0.1	173	4.78	25.2	219
	11/24/2004	0	0	19.9	29.9	0.9	5.8	0.09	40	5.65	25.1	163
	12/23/2004	0	0	21.8	30	0	5.74	3.74	113	4.9	25.2	241
	01/28/2005	0	0	21.8	29.9	0.76	5.64	0.06	142	4.39	21.3	171
	02/28/2005	0	0.4	20.1	29.6	4.4	6.25	0.09	76	10.7	20.8	180
	03/31/2005	0	0	20.9	29.7	1.07	4	0.1	63	10.11	20.6	373
	04/29/2005	0	0	21	30	10.2	5.26	0.1	63.5	17.2	21.4	320
	05/31/2005	0	0.3	18.9	29.8	10.3	6.01	0.07	196	8.82	22.4	206
	06/30/2005	0	0.9	18.6	29.5	9.5	5.85	0.09	94.5	9.21	23.8	151
CEF-043-6N	07/27/2004	0	0.9	18.1	29.9	6	4.76	0.11	13.5	3.64	25.4	142
	08/26/2004	0	0.3	19.1	30	4.5	5.78	0.17	10.6	6.07	26.4	106
	09/30/2004	0	0.9	17.8	29.9	8.7	5.87	0.14	18.5	3.61	27.4	173
	10/26/2004	0.2	4	9.9	30.1	17	5.6	0.3	21.9	4.02	25	208
	11/24/2004	0	0.6	19.9	29.9	4.59	4.98	0.26	450	5.1	25.2	67
	12/23/2004	0	1	20.1	29.9	2.63	5.12	0.27	218	5.51	25.2	133
	01/28/2005	0	1.1	19.7	29.9	2.12	5.48	0.14	0	3.67	21.4	193
	02/28/2005	0	4.6	11.2	29.7	0.8	6.13	0.22	12.7	5.32	20.4	103
	03/31/2005	0	1.1	19.8	29.7	1.67	4.27	0.22	4.9	9.11	20.5	343
	04/29/2005	0	1.6	19.4	30.1	0.1	5.34	0.24	14.7	17.2	21.3	311
	05/31/2005	0	3.3	14.1	29.7	0	6.26	0.17	11.2	5.21	22.6	191
	06/30/2005	0	9.6	0.1	29.6	0	5.66	0.24	37.4	3.32	24	34
CEF-043-7N	07/27/2004	0	0.3	19.7	30	2.2	5.56	0.13	36.8	6.55	25	310
	08/26/2004	0	0.2	19.6	30	3.47	5.29	0.2	24.6	6.03	26.3	185
	09/30/2004	0	0	18.9	29.8	2.7	5.16	0.1	37.7	3.42	27.1	153
	10/26/2004	0.2	0.9	18.9	30.1	230	6	0.22	5.4	4.71	25.2	266
	11/24/2004	0	0.4	20.7	29.9	3.79	5.92	0.12	17.5	4.22	25.1	183
	12/23/2004	0	0.1	21.4	30	3	5.63	0.11	25	5.86	25.2	215
	01/28/2005	0	0.3	20.2	29.9	0.5	5.54	0.13	31	5.06	21.1	211
	02/28/2005	0	4.2	14.5	29.7	0	5.84	0.11	50.4	5.24	20.5	219
CEF-043-7N	03/31/2005	0.1	0.4	20.1	29.8	3.44	4.23	0.11	59	9.64	20.2	265
	04/29/2005	0	0	20.7	30.1	3.5	5.71	0.16	23.3	19.9	21	298
	05/31/2005	0	2.2	17.5	29.8	0.3	5.73	0.11	41.2	5.81	22.3	252
	06/30/2005	0	3.5	14.2	29.8	0.6	6.05	0.26	18.3	6.44	24.1	207
CEF-043-8N	07/27/2004	0	0.1	18	30	1	5.43	0.09	27	5.16	25.1	200
	08/26/2004	0	1.1	17.9	30	0.5	5.64	0.09	38.4	5.52	26.3	108
	09/30/2004	0	1.5	16.5	29.9	0.63	5.47	0.08	18.5	3.88	27.4	223
	10/26/2004	0.1	7.1	13.3	30.1	0	5.37	0.09	33	4.15	24.9	124
	11/24/2004	0	3.2	18.5	29.9	0.21	5.46	0.09	19.3	4.26	25.1	297
	12/23/2004	0	1.9	19.7	30	0	5.27	0.11	9.4	4.79	25.2	269

	01/28/2005	0	2.2	19.1	29.9	0.3	5.57	0.09	13	3.71	21.4	182
	02/28/2005	0	4.2	15.9	29.6	0	6.04	0.9	108	7.49	20.3	209
	03/31/2005	0	3.4	18.5	29.7	0	4.2	0.1	64	8.26	20.2	314
	04/29/2005	0	3.4	17	30.1	0	5.08	0.09	58	16.4	20.9	309
	05/31/2005	0	4.7	16	29.8	0	5.38	0.06	74.2	2.45	22.4	162
	06/30/2005	0	6.1	12.8	29.6	0.72	5.7	0.11	80.9	5.78	23.9	247
CEF-043-9N	07/27/2004	0	0.7	18.6	30	2.1	5.82	0.15	71	4.11	25.4	103
	08/26/2004	0	0.9	19.7	29.9	3.4	5.96	0.11	9.5	4.5	26.4	149
	09/30/2004	0	1.2	18.1	29.9	3	6.02	0.17	5	3.18	27.4	160
	10/26/2004	0.1	1.4	18.9	30	1.6	6.15	0.2	19.2	2.94	25.3	-45
	11/24/2004	0	1.1	19.3	29.9	1.3	5.82	0.16	8	2.69	25.1	-21
	12/23/2004	0	1.3	19.8	29.9	0.08	5.77	0.18	2	3.07	25.3	97
	01/28/2005	0	1	19.6	29.9	0	6.03	0.17	17	3.45	21.2	176
	02/28/2005	0	5.5	14.4	29.7	0	6.19	0.17	59.3	6.97	20.7	156
	03/31/2005	0	5.8	12.3	29.7	9.77	4.52	0.19	0	5.83	20.6	258
	04/29/2005	0	1.9	19.4	30.1	0	5.19	0.25	7.2	13.2	21.4	239
	05/31/2005	0	3.8	16.6	29.8	0.1	5.89	0.16	33.3	2.31	22.6	-118
	06/30/2005	0.3	13.6	1.2	29.7	8.27	5.53	0.17	28	3.28	24.7	243
CEF-043-10	07/27/2004	0	3.5	16.9	29.9	2	5.5	0.31	36	2.31	25.1	184
	08/26/2004	0	1	20	29.9	3.4	5.91	0.31	29	2.6	26.1	175
	09/30/2004	0	0.9	16.1	30	2.33	5.82	0.29	78	3.32	27.4	137
	10/26/2004	0.2	6.5	10.7	30	1.7	5.46	0.48	76	4.2	27.4	184
	11/24/2004	0	8.1	11.5	29.9	3.24	5.29	0.28	23	3.81	25.1	166
	12/23/2004	0.1	7.6	17.6	30	2.8	5.38	0.26	42	2.95	25.2	150
	01/28/2005	0	0.9	20.8	29.9	1.7	5.62	0.31	24.6	3.12	21.3	189
	02/28/2005	0	1.7	17.3	29.7	2.8	6.15	0.23	3.8	6.06	22.1	166
	03/31/2005	0	5.4	8.5	29.6	0	4.43	0.22	1.1	5.43	22.2	180
	04/29/2005	0	0.6	19.9	30	0	5.52	0.24	24.8	12.5	23.3	311
	05/31/2005	0	10.9	6.4	29.7	0	5.61	0.24	0	1.98	24.7	166
	06/30/2005	0	12.1	3.2	29.4	0	6.05	0.23	5.7	2.97	26.4	91
CEF-043-19	07/27/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	08/26/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	09/30/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	10/26/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/24/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/23/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	01/28/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	02/28/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	03/31/2005	0	3.9	15.4	29.7	0	4.25	0.1	8.5	7.49	20.6	404
	04/29/2005	0	6.2	14	30	0	4.22	0.2	53.8	16.7	21.5	384
	05/31/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	06/30/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
CEF-043-20	07/27/2004	0	0	19.7	30	10.75	5.47	0.03	57	5.12	25.4	181
	08/26/2004	0	0	19.9	30	11.4	5.54	0.03	47.8	5.27	26.4	168
	09/30/2004	0	0	20.1	29.9	8.25	5.81	0.03	66.1	3.97	27.3	131
	10/26/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/24/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/23/2004	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	01/28/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	02/28/2005	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

	03/31/2005	0	3.6	16.4	29.6	0	4.33	0.08	0	3.15	20.6	246
	04/29/2005	0	3.3	18.5	30	0	5.12	0.1	8.7	11.4	21.7	329
	05/31/2005	0	3.2	17.2	29.7	0	5.2	0.07	246	2.99	22.9	194
	06/30/2005	0	4.2	16	29.4	0.18	5.55	0.13	2	3.95	24.5	142
CEF-043-21	07/27/2004	0	0	19.6	29.9	5.9	6.07	0.12	42	3.75	25.5	131
	08/26/2004	0	0.2	20.3	29.9	5	5.91	0.14	10.4	4.35	26.1	142
	09/30/2004	0	0	20.1	29.9	3.87	5.75	0.12	0	3.27	27.2	174
	10/26/2004	0.2	2.1	17.1	30	1.1	6.19	0.23	7	4.68	25.2	167
	11/24/2004	0.1	1.1	19.9	29.9	2.16	5.84	0.13	0	3.17	25.1	191
	12/23/2004	0.1	0.05	20.1	30	3.8	5.94	0.12	6.2	3.13	25.4	205
	01/28/2005	0	0.1	20.7	29.9	3.52	5.89	0.11	1.3	3.1	21.2	169
	02/28/2005	0	1	20.4	29.7	0	6.34	0.13	15.5	4	19.9	156
	03/31/2005	0	0.8	20.2	29.6	0	4.41	0.2	0.3	4.52	19.7	234
	04/29/2005	0	0	21.4	30	0	5.63	0.21	2.6	12.7	20.9	315
	05/31/2005	0	0.3	19.7	29.7	0.4	5.89	0.15	0	4.24	22	188
	06/30/2005	0	0	20.5	29.4	0	6.38	0.22	4.4	4.44	23.9	98
CEF-043-22	07/27/2004	0	4.5	14.8	30	2.44	4.96	0.05	31.1	4.33	25.3	211
	08/26/2004	0	5.5	12.8	30	0	5.04	0.07	72.5	4.53	26.2	126
	09/30/2004	0	7.2	15.1	30	0	5.11	0.08	127	4.28	27.3	262
	10/26/2004	0.2	7.9	11.1	30	0	5.08	0.06	41	4.08	24.9	258
CEF-043-22	11/24/2004	0	2.7	17.9	29.9	0	5.18	0.06	33	3.18	25.1	228
	12/23/2004	0	3.1	18.2	30	0.29	5.06	0.08	24.5	3.69	25.2	207
	01/28/2005	0	1.6	19.8	29.9	0	5.01	0.1	28	3.81	21.5	273
	02/28/2005	0	3.8	17.1	29.6	0	5.62	0.05	139	9.23	20.3	235
	03/31/2005	0	4.4	15.1	29.7	0	4.05	0.05	61	5.62	20.3	374
	04/29/2005	0	5.4	13.5	30	0	4.48	0.06	40	12.1	21.1	351
	05/31/2005	0	5	16	29.7	0.3	5.17	0.04	99	2.18	21.9	239
	06/30/2005	0	5.8	15	29.5	2.2	5.26	0.06	229	3.63	23.1	206
CEF-043-32	07/27/2004	0	1.5	18.7	29.9	1.5	5.39	0.19	23.8	4.61	25.2	178
	08/26/2004	0	1	18.9	29.9	1	5.47	0.14	42	3.92	26.3	121
	09/30/2004	0	0.2	20	29.8	2.5	5.45	0.12	34	3.15	27.4	159
	10/26/2004	0.2	0.3	20.1	30.1	1.4	6.17	0.51	3.3	3.03	27.4	165
	11/24/2004	0	0.3	20.7	29.9	1.57	6.44	0.43	11.2	3.86	25.1	155
	12/23/2004	0	0.1	19.8	29.9	3.21	6.25	0.37	21	4.55	25.3	129
	01/28/2005	0	1	19.9	29.9	2.64	6.08	0.18	18.5	4.01	21.6	142
	02/28/2005	0	0.7	20.4	29.7	1.2	6.21	0.16	24.3	5.55	21.6	191
	03/31/2005	0	2.5	18.9	29.6	0	4.56	0.24	0.5	6.77	21.7	126
	04/29/2005	0	1.1	20.3	30	0	5.9	0.4	27.4	14.11	23.7	324
	05/31/2005	0	1.7	18.4	29.7	0.6	5.62	0.29	14.1	4.4	24.4	152
	06/30/2005	0	5.1	14	29.4	0.45	6.19	0.32	46.4	3.88	26.3	34

Note: All measurements taken using direct reading instruments in the field.

% -percent
OVA - organic vapor analyzer
mS/cm - milliSiemens per centimeter
mg/L - milligrams per liter
ORP - oxygen reducing potential
in Hg -inches of mercury
ppm - parts per million
NTU - nephelometric turbidity units
^{o}C - degrees Celsius
mV - millivolts

4.0 Conclusions and Recommendations

CH2M HILL recommends continuing the operation of the bioventing and biosparging remediation systems. The Navy Comprehensive Long-term Environmental Action Navy (CLEAN) contractor is currently evaluating remedial alternatives to supplement and/or modify the existing bioventing and biosparging systems. Operation of the current bioventing and biosparging systems will continue until implementation of the remedial alternative.

The bioventing and biosparging systems operated continuously during the July 1, 2004, to June 30, 2005, monitoring period. The resulting operational efficiency of the bioventing and biosparging systems was 99 percent and 34 percent, respectively. Based on the field parameter testing, it appears that biological activity is occurring at the site. The biosparging injection continues to provide sufficient oxygen as indicated by the dissolved oxygen readings being greater than 1 mg/L.

The annual soil screening and sampling event indicated that 5 of the 15 soil boring locations (B-31, B-41, B-96, 158, and B-167) continue to exhibit soil contaminant concentrations in excess of either one or both leachability based on Groundwater Criteria and the Direct Exposure Residential SCTLs. In general, with the exception of TRPH, this is the first time the majority of the parameters exceeding the regulatory standards were detected in their associated borings at concentrations above the regulatory standard. The TRPH values at soil borings B-31, B-41 and B-96 have increased one to two orders of magnitude since the baseline soil sampling event (March 1999).

Lead and TRPH were the only parameters detected at a concentration above the GCTLs during the well 2004/2005 annual sampling event. The exceedance of lead was detected in the groundwater sample from well CEF 43-6N and TRPH was detected in the groundwater sample from CEF43-2N. In general, parameter concentrations from the 2004/2005 annual event decreased one to three orders of magnitude when compared to the baseline and previous sampling events conducted from March 1998 to May 2002 (See Table A-2 in Appendix A). Based on an evaluation of historical groundwater data, it appears that the biosparging and bioventing systems are successful in reducing contaminant concentrations in groundwater.

The annual groundwater sampling event indicated that two monitoring wells continue to exhibit groundwater contaminant concentrations in excess of the FDEP GCTLs but are below the Natural Attenuation Default Source criteria. In general, parameter concentrations from the 2004/2005 annual event decreased one to three orders of magnitude when compared to the baseline and previous sampling events conducted from March 1998 to May 2002. Based on an evaluation of historic groundwater data, it appears that the biosparging and bioventing systems are successful in reducing contaminant concentrations in groundwater.

Based on an evaluation of historic groundwater data, it appears that the biosparging and bioventing systems are successful in reducing contaminant concentrations in groundwater.

CH2M HILL recommends continuing the operation of the bioventing and biosparging remediation systems. In addition, CH2M HILL recommends expansion of the systems in the vicinity of well 86-CEF43-9N. The Navy CLEAN contractor is currently evaluating remedial alternatives to supplement and/or modify the existing bioventing and biosparging systems. Operation of the current bioventing and biosparging system will continue until implementation of the remedial alternative.

5.0 References

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CH2M HILL Constructors, Inc. 2005. 3rd and 4th Quarters 2004 O&M Status Report, Bioventing and Biosparging Systems, South Fuel Farm, Naval Air Station Cecil Field, Jacksonville, Florida. June.

Appendix A

Historical Data

TABLE A-1
Historical Soil Analytical Results
South Fuel Farm

Soil Boring Number	Sample Date	Sample Depth (ft bgs)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
Direct Exposure Residential [1]			1.1	1100	380	5900	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
B-7	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	84
	09/13/00	N/A	<0.001	<0.001	<0.001	<0.003	<0.002	<0.018	<0.037	<0.037	<0.037	<0.019	<0.003	<0.037	<0.0018	<0.0037	<0.0018	<0.0018	<0.0018	<0.0037	<0.0018	<0.002	<0.0018	<0.0036	<0.003	8
	10/18/01	2	<0.001	<0.001	<0.001	<0.0031	<0.001	<0.597	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
	10/10/2002	2	0.00102	0.00141	0.00325	0.0119	<0.00589	<0.00884	<0.0177	<0.0177	<0.0353	<0.0177	<0.0177	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<9.42
	11/05/2003	2	<0.00486	<0.00486	<0.00486	<0.00971	<0.00486	<0.00966	<0.0387	<0.0387	<0.0387	<0.0387	<0.0194	<0.00384	<0.00384	<0.00384	<0.00384	<0.00384	<0.00384	<0.00384	<0.00384	<0.00384	<0.00966	<0.00384	<0.00384	127
	12/07/2004	2	0.00504 U	0.00504 U	0.00504 U	0.0101 U	0.00504 U	0.00914 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.0184 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00363 U	0.00914 U	0.00363 U	0.00363 U	35 JB
B-31	03/22/99	N/A	<0.012	<0.012	<0.012	<0.036	<0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	0.002	0.0028	0.01	0.01	180
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.604	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.010 J	<0.060	<0.060	<0.060	<18
	10/10/2002	3	<0.225	<0.225	0.0506	<0.450	<0.225	<0.00863	<0.0173	<0.0173	<0.00345	<0.0173	<0.0173	<0.00345	<0.00345	0.0116	<0.00345	<0.00345	<0.00345	<0.00345	<0.00345	<0.00345	<0.00345	<0.00345	<0.00345	8.83
	11/05/2003	2	<0.00518	<0.00518	<0.00518	<0.0104	<0.00518	<0.00935	<0.0375	<0.0375	<0.0375	<0.0375	<0.0188	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	<0.00372	<0.00935	<0.00372	<0.00372	<9.01
	12/07/2004	2	0.461 U	1.04	0.278 J	6.81	0.461 U	1.2	4.18	3.49	0.392 U	0.392 U	0.0531 J	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0389 U	0.0978 U	0.0389 U	0.0389 U	**1440 JB**
B-41	03/22/99	N/A	<0.013	<0.013	<0.013	<0.038	<0.076	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	30
	09/13/00	N/A	<0.55	<0.55	<0.55	24.9	<1.1	3.3	22	14	<2	<1	0.21	<0.2	<0.098	0.88	<0.098	<0.098	<0.098	<0.2	<0.098	<0.099	<0.098	<0.19	<0.2	**460**
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.579	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<17
	10/10/2002	4	<0.00219	<0.00219	<0.00219	<0.00437	UM(D21:G21	<0.00219	<0.00859	<0.0172	<0.0172	<0.0344	<0.0172	<0.0172	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	<0.0344	**1640**
	11/05/2003	4	<0.212	<0.212	<0.212	**1.56**	<0.212	<0.00984	0.066	<0.0395	<0.0395	<0.0395	<0.0198	<0.00391	<0.00391	<0.00391	<0.00391	<0.00391	<0.00391	0.00147 J	<0.00391	0.00146 J	<0.00984	<0.00391	<0.00391	**10400**
	12/07/2004	4	0.242 U	0.242 U	0.242 U	0.484 U	0.242 U	0.0145	0.0628	0.0394 U	0.0394 U	0.0394 U	0.0197 U	0.0039 U	0.0039 U	0.0256	0.0717	0.0443	0.0039 U	0.0039 U	0.0039 U	0.0039 U	0.00981 U	0.0039 U	0.0039 U	**3200 JB**
B-70	03/22/99	N/A	<0.13	<0.13	<0.13	<0.4	<0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**830**
	09/13/00	N/A	0.0014	<0.001	0.002	0.019	<0.002	<0.021	<0.041	<0.041	0.109	0.094	<0.004	<0.041	<0.0021	0.091	0.148	0.016	0.043	0.014	0.012	0.005	0.0025	<0.004	<0.004	100
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0036	<0.0012	<0.565	<0.056	0.035 J	>0.056	<0.056	<0.056	0.0049 J	<0.056	<0.056	0.0057J	0.0053J	0.008J	0.015J	<0.056	0.007J	0.010J	<0.056	0.016J	64
	10/10/2002	4	0.00141	0.0014	0.00337	0.0102	<0.00495	0.151	<0.0161	<0.0161	<0.0322	<0.0161	<0.0161	0.0222	0.00614	0.168	0.0621	0.0554	0.0952	0.0795	0.0747	0.085	0.0589	0.0616	0.0746	114
	11/05/2003	4	0.00547	0.00136 J	0.0175 B	0.0164	<0.00496	**1.97**	**7.77**	**9.7**	<0.738	<0.738	<0.37	<0.0731	<0.0731	<0.0731	0.134	<0.0731	<0.0731	<0.0731	<0.0731	<0.0731	<0.184	<0.0731	<0.0731	93.5
	12/07/2004	4	0.00465 U	0.00465 U	0.00465 U	0.00929 U	0.00465 U	0.00853 U	0.0342 U	0.0342 U	0.0342 U	0.0342 U	0.0172 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00339 U	0.00853 U	0.00339 U	0.00339 U	9.33 JB
B-96	03/22/99	N/A	<0.1	0.25	<0.1	5.8	<.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7600**
	09/13/00	N/A	<0.22	<0.22	<0.22	<0.65	<0.43	0.074	0.48	0.58	0.058	0.032	0.11	0.26	0.039	<0.004	<0.002	0.015	0.021	0.02	0.011	0.012	0.0063	0.0087	0.005	**1800**
	10/18/01	4	0.024	0.017	0.0017	0.0141	<0.0014	0.562	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	0.128	0.016	0.018	0.033	0.015	<0.056	0.014	<0.056	0.016	**969**
	10/10/2002	4	<0.296	<0.296	<0.296	<0.538	<0.269	<0.0404	<0.0807	<0.0807	<0.161	<0.0807	<0.0807	<0.0161	<0.0161	0.0274	0.142	<0.0161	<0.0161	<0.0161	<0.0161	<0.0161	<0.0161	<0.0161	<0.0161	**2710**
	11/05/2003	4	<0.278	0.0574 J	<0.278	<0.556	<0.278	<0.175	<0.703	<0.703	<0.703	<0.703	<0.353	0.073 J	<0.0697	<0.0697	0.318 J	0.172 J	<0.0697	0.292 J	0.125 J	0.287 J	0.307 J	0.114 J	0.582 J	32.5 J
	12/07/2004	4	0.216 U	0.216 U	0.216 U	0.433 U	0.216 U	8.19 J	15.5 J	24.5 J	0.772 J	0.339 U	0.649 J	0.0336 U	0.0336 U	0.0336 U	0.455 J	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0336 U	0.0846 U	0.0336 U	0.0336 U	**59600 JB**
B-99	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**570**
	09/13/00	N/A	0.001	<0.001	0.0018	0.0017	<0.002	<0.02	<0.04	0.073	<0.04	0.14	<0.004	<0.04	0.004	0.052	0.028	0.0076	0.02	0.025	0.0057	0.016	0.013	0.019	0.024	<8.1
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0012	<0.593	<0.059	<0.059	<0.059	<0.059	<0.059	0.024J	<0.059	0.046J	0.015J	0.027J	0.040J	0.040J	0.017J	0.032J	0.024J	<0.059	0.029J	36
	10/10/2002	4	0.00157	0.00156	0.00516	0.0154	<0.00482	0.0235	<0.0171	<0.0717	<0.0342	<0.0171	<0.0171	0.0396	0.009	0.223	0.147	0.165	0.117	0.0805	0.0357	0.0713	0.0351	<0.00342	0.0418	33.7
	11/05/2003	4	<0.00517	0.00188 J	0.0013 B	0.00894 J	<0.00517	0.135	<0.0382	<0.0382	<0.0382	<0.0382	<0.0191	0.0259	<0.00378	<0.00378	<0.00378	<0.00378	<0.00378	<0.00378	<0.00378	<0.00378	<0.00952	<0.00378	<0.00378	**4860**
	12/07/2004	4	0.235 U	0.235 U	0.235 U	0.47 U	0.235 U	0.00887 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.0179 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00887 U	0.0325	0.071	20 JB
B-101	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.021	<0.042	<0.042	<0.042	<0.021	<0.004	<0.042	<0.0021	<0.0042	<0.0021	<0.0021	0.0046	0.0066	0.0029	0.006	0.009	0.0084	0.018	<8.4
	10/18/01	4	0.00088	<0.001	0.0012	<0.003	<0.001	<0.572	0.206	1.09	1.25	0.17	0.321	0.912	<0.057	1.84	0.201	<0.057	1.14	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	**7510**
	10/10/2002	4	<0.268	<0.268	<0.0268	<0.537	<0.268	<0.805	<1.610	<1.610	<3.220	<1.160	<1.610	1030	<0.322	2490	**6770**	<0.322	<0.322	<0.322	<0.322	<0.322	<0.322	<0.322	<0.322	**13100**
	11/05/2003	4	<0.00586	<0.00586	<0.00586	<0.0117	<0.00586	<0.0509	<0.204	<0.204	<0.204	<0.204	<0.102	0.0241	<0.0202	<0.0202	<0.0202	0.0304	<0.0202	<0.0202	<0.0202	<0.0202	<0.0509	<0.0202	<0.0202	**965 J**
	12/07/2004	4	0.00477 U	0.00477 U	0.00477 U	0.0012 J	0.00477 U	0.00916 U	0.0367 U	0.0367 U	0.0367 U	0.0367 U	0.0184 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00916 U	0.00364 U	0.00364 U	67.7 JB
B-104	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28
	09/13/00	N/A	<0.001	<0.001	0.0018	0.0084	<0.002	<0.021	<0.041	<0.041	<0.041	<0.021	<0.004	<0.041	<0.0021	<0.0041	<0.0021	<0.0021	<0.0021	<0.0041	<0.0021	<0.002	<0.0021	<0.0041	<0.004	<8.3
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0012	<0.569	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	0.0049J	0.014J	<0.057	<0.057	0.011J	<0.057	<0.057	<0.057	<0.057	0.0041J	80
	10/10/2002	4	0.00169	0.00268	0.0107	0.029	<0.00584	<0.00864	<0.0173	<0.0173	<0.0346	<0.0173	<0.0173	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	<0.0346	10.3
	11/05/2003	4	<0.00548	<0.00548	<0.00548	0.00165 J	<0.00548	<0.00939	<0.0377	<0.0377	<0.0377	<0.0377	<0.0189	<0.00373	<0.00373	<0.00373	<0.00373	<0.00373	<0.00373	<0.00373	<0.00373	<0.00373	<0.00939	<0.00373	<0.00373	37.7

TABLE A-1
Historical Soil Analytical Results
South Fuel Farm

Soil Boring Number	Sample Date	Sample Depth (ft bgs)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
Direct Exposure Residential [1]			1.1	1100	380	5900	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
	12/07/2004	4	0.00495 U	0.00495 U	0.00495 U	0.00989 U	0.00495 U	0.00872 U	0.035 U	0.035 U	0.035 U	0.035 U	0.0175 U	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.0351	0.00347 U	0.00347 U	0.00347 U	0.00347 U	0.00872 U	0.00347 U	0.00347 U	12.6 JB
B-106	03/22/99	N/A	<0.12	<0.12	<0.12	<0.37	<0.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3200**
	09/13/00	N/A	<0.001	0.001	0.002	0.0145	<0.002	<0.19	2.4	<0.38	<0.38	0.47	<0.038	<0.38	<0.019	0.93	2.8	0.62	0.89	0.97	0.62	0.68	0.31	0.34	0.5	**1000**
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.550	<0.055	<0.055	<0.055	<0.055	<0.055	0.023J	<0.055	<0.055	0.019J	0.023J	0.034J	0.037J	<0.055	0.040J	0.038J	<0.055	0.040J	37
	10/10/2002	4	<0.00479	0.00132	0.00494	0.0122	<0.00479	0.125	<0.0167	<0.0167	<0.0334	<0.0167	<0.0167	<0.00334	<0.00334	0.0781	0.0409	<0.00334	0.0303	0.0309	<0.00334	0.0197	<0.00334	<0.00334	0.0395	**483**
	11/05/2003	4	<0.00522	<0.00522	0.00349 B	0.00151 J	<0.00522	<0.00917	<0.0368	<0.0368	<0.0368	<0.0368	<0.0185	<0.00365	<0.00365	0.00565	<0.00365	<0.00365	0.0282	0.0134	0.0107	0.00497	<0.00917	<0.00365	<0.00365	**401**
	12/07/2004	4	0.00447 U	0.00447 U	0.00447 U	0.00895 U	0.00447 U	0.00854 U	0.0343 U	0.0343 U	0.0343 U	0.0343 U	0.0172 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.0034 U	0.00854 U	0.0034 U	0.0034 U	6.91 JB
B-110	03/22/99	N/A	<0.13	<0.13	<0.13	<0.39	<0.78	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1000**
	09/13/00	N/A	<0.097	<0.097	<0.097	<0.286	<0.2	<0.97	<1.9	<1.9	4.3	3.7	0.23	<1.9	<0.097	<0.19	<0.097	<0.097	1.6	<0.19	<0.097	<0.098	<0.097	<0.19	<0.19	**530**
	10/18/01	4	<0.001	<0.001	<0.001	<0.003	<0.001	<0.575	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<17
	10/10/2002	4	<0.00248	<0.00248	<0.00248	<0.00495	<0.00248	<0.00857	<0.0171	<0.0171	<0.0343	<0.0171	<0.0171	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<0.00343	<9.14
	11/05/2003	2	<0.00523	<0.00523	<0.00523	<0.0105	<0.00523	<0.00888	<0.0356	<0.0356	<0.0356	<0.0356	<0.0179	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00353	<0.00888	<0.00353	<0.00353	95.1
	12/07/2004	2	0.00466 U	0.00466 U	0.00466 U	0.00932 U	0.00466 U	0.00867 U	0.0348 U	0.0348 U	0.0348 U	0.0348 U	0.0174 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00867 U	0.00345 U	0.00345 U	7.85 JB
B-137	03/22/99	N/A	<0.1	<0.1	<0.1	0.52	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1200**
	09/13/00	N/A	<0.0013	<0.0013	<0.0013	0.008	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.0039	<0.004	8
	10/18/01	2	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.563	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<17
	10/10/2002	4	0.00161	0.00181	0.00414	0.0111	<0.00497	<0.00811	<0.0162	<0.0162	<0.0325	<0.0162	<0.0162	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	<0.00325	127
	11/05/2003	4	0.0012 J	<0.00533	0.00226 B	0.00337 J	<0.00533	<0.00917	<0.0368	<0.0368	<0.0368	<0.0368	<0.0184	0.0155	<0.00364	<0.00364	<0.00364	<0.00364	<0.00364	<0.00364	<0.00364	<0.00364	<0.00917	<0.00364	<0.00364	22.9
	12/07/2004	4	0.255 U	0.255 U	0.255 U	0.51 U	0.255 U	0.00891 U	0.0358 U	0.0358 U	0.0358 U	0.0358 U	0.0179 U	0.00354 U	0.00354 U	0.00354 U	0.103	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00354 U	0.00891 U	0.00354 U	0.00354 U	14.9 JB
B-146	03/22/99	N/A	<0.1	<0.1	<0.1	<0.31	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1000**
	09/13/00	N/A	<0.0013	<0.0013	0.002	0.006	<0.002	0.028	<0.041	<0.041	<0.041	<0.021	0.005	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	<0.002	0.008	<0.002	<0.004	<0.004	13
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.541	<0.054	<0.054	<0.054	<0.054	0.012	<0.054	<0.054	0.185	0.029	<0.054	0.184	0.0099	0.017	0.0059	0.0092	<0.054	<0.054	**1640**
	10/10/2002	4	<0.239	0.616	<0.239	3.22	<0.239	<0.329	<0.783	<0.783	<1.570	<0.783	<0.783	<0.157	<0.157	1.04	3.18	<0.157	<0.157	<0.157	<0.157	<0.157	<0.157	<0.157	<0.157	**4180**
	11/05/2003	4	<0.00514	<0.00514	<0.00514	<0.0103	<0.00514	<0.00886	<0.0356	<0.0356	<0.0356	<0.0356	<0.0178	<0.00352	<0.00352	<0.00352	<0.00352	<0.00352	<0.00352	<0.00352	<0.00352	<0.00352	<0.00886	<0.00352	<0.00352	**365**
	12/08/2004	4	0.0047 U	0.0047 U	0.0047 U	0.00362 J	0.0047 U	0.00871 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.0175 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.0178	0.00346 U	0.00346 U	0.00567	0.00346 U	0.00991	0.026	0.0074	43.5 JB

TABLE A-1
Historical Soil Analytical Results
South Fuel Farm

Soil Boring Number	Sample Date	Sample Depth (ft bgs)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
Direct Exposure Residential [1]			1.1	1100	380	5900	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
B-158	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9.5
	09/13/00	N/A	0.0016	0.003	0.002	0.0342	<0.002	0.13	<0.041	<0.041	<0.041	<0.021	0.01	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	0.0028	0.004	<0.002	0.005	0.01	<8.2
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.596	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
	10/10/2002	2	0.00341	0.00268	0.00622	0.0252	0.00189	<0.00825	<0.0165	<0.0165	<0.0330	<0.0165	<0.0165	<0.0033	<0.0033	0.0129	<0.0033	<0.0033	<0.0033	0.00766	0.00396	0.00678	<0.0033	<0.0033	0.0202	<5.9
	11/05/2003	2	<0.00537	0.00108 J	<0.00537	0.00233 J	<0.00537	<0.00908	<0.0364	<0.0364	<0.0364	<0.0364	<0.0183	<0.00361	<0.00361	<0.00361	0.108	0.0552	0.0976	<0.00361	0.0558	0.084	0.062	0.0669	0.0802	19.6
	12/08/2004	2	0.00469 U	0.00111 J	0.00469 U	0.00333 J	0.00469 U	0.00862 U	0.0346 U	0.0346 U	0.0346 U	0.0325 J	0.0173 U	0.0101	0.00354	0.0344	0.0701	0.204	0.057	0.0867	0.145	**0.113**	0.0518	0.048	0.0493	63.5 JB
B-167	03/22/99	N/A	<0.12	0.45	0.29	2.8	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4200**
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.02	<0.04	<0.04	<0.040	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.004	<8.1
	10/18/01	4	0.029	3.84	0.019	5.334	0.0034	10.3	22.3	26.3	<0.573	0.188	1.71	2.37	<0.573	2.07	<0.573	<0.573	0.351	<0.573	<0.573	<0.573	<0.573	<0.573	<0.573	**11400**
	10/10/2002	4	<0.219	<0.219	<0.219	<0.439	<0.219	9.05	21	34.9	<3.340	<1.670	<1.670	<0.334	<0.334	<1.670	<0.334	<0.334	<0.334	<0.334	<0.334	<0.334	<0.334	<0.334	<0.334	**13800**
	11/05/2003	2	<0.00501	<0.00501	<0.00501	<0.01	<0.00501	<0.00869	<0.0349	<0.0349	<0.0349	<0.0349	<0.0175	<0.00346	<0.00346	<0.00346	<0.00346	<0.00346	<0.00346	0.00194 J	0.00232 J	0.0015 J	<0.00869	<0.00346	<0.00346	<8.38
	12/08/2004	2	0.235 U	0.235 U	0.235 U	0.469 U	0.235 U	0.533 J	5.91 J	1.98 J	0.0362 U	0.0362 U	0.0182 U	0.233 J	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00359 U	0.00903 U	0.00359 U	0.00359 U	**1840 JB**
B-189	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4
	09/13/00	N/A	0.0018	<0.0011	0.0038	0.0061	<0.002	<0.02	<0.041	<0.041	<0.041	<0.021	0.006	<0.041	<0.002	<0.0041	0.004	<0.002	<0.002	<0.0041	0.0021	0.004	0.002	<0.004	0.005	<8.2
	10/18/01	4	<0.0012	0.00062J	<0.0012	0.0042	<0.0012	<0.570	<0.057	0.013J	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	18
	10/10/2002	2	<0.285	<0.285	<0.285	<0.570	<0.285	<0.0095	<0.0191	<0.0191	<0.0381	<0.0191	<0.0191	<0.0038	<0.0038	0.014	0.0093	<0.0038	<0.0038	0.0059	0.006	0.00686	<0.0038	<0.0038	<0.0038	10.2
	11/05/2003	4	<0.00583	<0.00583	<0.00583	<0.0117	<0.00583	<0.00967	<0.0388	<0.0388	<0.0388	<0.0388	<0.0195	<0.00385	<0.00385	<0.00385	<0.00385	<0.00385	<0.00385	0.00387	<0.00385	<0.00385	<0.00967	<0.00385	<0.00385	11
	12/08/2004	4	0.00174 J	0.00106 J	0.00333 J	0.0118	0.00497 U	0.00874 U	0.0351 U	0.0351 U	0.0351 U	0.0351 U	0.0176 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00348 U	0.00874 U	0.00348 U	0.00348 U	57.9 JB

All values reported in milligram per kilogram (mg/kg).
1 Ch 62-777 FAC Soil cleanup Target Level (SCTLs) reported in mg/kg.
N/A not available
N/S not sampled for compound
J concentration is less than the reporting limit but greater than the method detection limit
Bold values indicates concentration exceeds Residential Direct Exposure Limit.
Shaded values indicate compounds that exceed Leachability based on Groundwater Criteria.
Bold and Shaded values indicate compounds that exceed both SCTL and Leachability based on Groundwater Criteria.

TABLE A-2
Groundwater Analytical Results

Well Identification	Sample Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	BTEX	Naphthalene	Lead	TRPH
CEF-043-2N	03/09/1998	<1	<1	<1	<2	<5	<10	5	3,500
	05/19/1998	6	300	4,900	1,320	6,526	230	29	900
	08/25/1998	<1	24	70	72	166	<10	15	9,000
	12/14/1998	2.2	86	830	240	1,158	<10	22	4,200
	04/10/2000	<5	100	380	290	770	56	19	30,000
	05/09/2002	0.32	20.5	26.3	63	110.1	3.8	4.0 B	24,600
	05/27/2003	<5	2.29	<5	7.09	9.38	<0.25	<15	7,930
	05/26/2004	<5	22.4	<5	26.9	49.3	40.1 J	<15	36400
CEF-043-6N	03/09/1998	730	930	1,500	5,500	8,660	<100	51	15,000
	05/19/1998	230	1,300	1,700	10,000	13,230	82	120	19,000
	08/25/1998	60	400	360	1,820	2,640	<10	9	3,900
	12/14/1998	24	280	85	2,580	2,969	<10	78	18,000
	04/10/2000	11	190	80	880	1,161	<10	48	14,000
	05/09/2002	<1	15.6	0.66	67.7	83.96	1.1	20	3,600
	05/27/2003	<5	1.58	<5	6.89	8.47	<0.25	17	<84.8
	05/26/2004	<5	10.3	<5	29.9	40.2	3.91	21	2220 J
CEF-043-7N	03/09/1998	39	320	62	1,560	1,981	<10	76	14,000
	05/19/1998	<50	2,300	300	10,200	12,800	54	120	12,000
	08/25/1998	<1	90	10	1,050	1,150	<10	61	1,800
	12/14/1998	<1	320	24	5,400	5,744	<10	7	19,000
	04/10/2000	<1	3	2.2	12.6	18	<10	13	600
	05/09/2002	<1	<1	<1	<3	<6	<0.21	4.2 B	2,600
	05/27/2003	<5	<5	<5	<10	<25	<0.25	5.9	<776
	05/26/2004	<5	<5	<5	<10	0	<0.25	7.1 J	157 J
CEF-043-9N	03/09/1998	<2	1.2	<1	11.3	12.5	<10	15	1,300
	05/19/1998	<2	18	1.3	68	87.3	62	17	1,300
	08/25/1998	<2	1	<1	8	9	<10	<5	<200
	12/14/1998	<2	18	<1	24	42	24	<5	300
	04/10/2000	<1	23	4.2	78	105.2	18	20	1,500
	05/09/2002	<1	18	0.4	71.4	89.8	30	10.5	5,300
	05/27/2003	<5	16.8	<5	82.6	99.4	58.9	<15	21,500
	05/26/2004	<5	27.2	3.31 J	106	133.2	84.7	<15	8040 J
CEF-043-33N	03/09/1998	<1	<1	<1	<2	<5	<10	5	<200
	05/19/1998	<1	<1	<1	<2	<5	<10	5	<200
	08/25/1998	<1	<1	<1	<2	<5	<10	10	<200
	12/14/1998	<1	<1	<1	<2	<5	<10	<5	<200
	04/10/2000	<1	<1	<1	<2	<5	<10	20	<200
	05/09/2002	<1	<1	<1	<3	<6	0.21 J	<5	<370
	05/28/2003	<5	<5	<5	<10	<25	<0.25	<15	<211
	05/26/2004	<5	<5	<5	<10	0	<0.25	<15	<100
CEF-043-38N	03/09/1998	<1	<1	<1	<2	<5	<10	140	<200
	05/19/1998	<1	<1	<1	<2	<5	<10	78	<200
	08/25/1998	<1	<1	<1	1	1	<10	46	<200
	12/14/1998	<1	<1	<1	8.8	8.8	<10	54	<200
	04/10/2000	<1	<1	<1	<2	<5	<10	49	<200
	05/09/2002	<1	<1	<1	<3	<6	<0.21	2.5 B	<380
	05/28/2003	<5	<5	<5	<10	<25	<0.25	<15	<131
	05/26/2004	<5	<5	<5	<10	0	<0.25	<15	51 J
Groundwater Criteria [1]		1	30	40	20	n/a	20	15	5000
Natural Attenuation Default Source [1]		100	300	400	200	n/a	200	150	50000

All values reported in µg/L
1 = Ch 62-777 FAC Groundwater Cleanup Target Levels (GCTLs) reported in µg/L
BTEX = benzene, toluene, ethylbenzene, and xylene
N/A = not analyzed for this compound
Shaded values indicate the compounds that exceed the GCTLs.
Bolded values indicate the compounds that exceed Natural Attenuation Default Source criteria.
B = compound is present in the method blank.
J = concentration is less than the reporting limit but greater than the method detection limit.
Sampling events dated prior to 5/9/02 were performed by previous contractors.
Sampling event dated 3/9/98 is the baseline sampling event.

Appendix B

Laboratory Analytical Reports for Groundwater Samples (provided on CD)

NAS Cecil Field

PREPARED FOR:	Former NAS Cecil Field / South Fuel Farm Annual Groundwater Sampling Event 2005
FINAL REVEIWER:	Camden Robinson/ Associate Project Chemist/CCI
COPIES:	Sam Naik /Project Manager/CCI
DATE:	July 27, 2005
SUBJECT:	Quality Assessment for Samples Collected June 16, 2005

This quality assurance memorandum is based upon a review of analytical data generated for groundwater samples and associated field quality control samples collected June 16, 2005 at the Former Naval Air Station Cecil Field in Jacksonville, Florida. The samples were collected as a part of the South Fuel Farm Annual Soil sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, laboratory sample identification numbers, dates of collection, and the analyses performed.

Gulf Coast Laboratory of Baton Rouge, Louisiana served as the laboratory for this South Fuel Farm Annual Groundwater sampling event for the following analyses:

- Selective Volatile Organic Compounds (VOC) by SW-846 method 8260B
- Polyaromatic nuclear hydrocarbons (PAH) by HPLC method 8310,
- Total petroleum hydrocarbons (TPH) by method FL-PRO,
- Lead by SW 846 method 6010B

Table 1-1 ***Summary Sample Data Reviewed Former NAS Cecil Field***

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86-CEF43-2N-Q2-05	20506170501	06/16/2005	[1], [2]
86-CEF43-6N-Q2-05	20506170502	06/16/2005	[1], [2]
86-CEF43-7N-Q2-05	20506170503	06/16/2005	[1], [2]
86-CEF43-9N-Q2-05	20506170504	06/16/2005	[1], [2]
86-CEF43-33N-Q2-05	20506170506	06/16/2005	[1], [2]
86-CEF43-38N-Q2-05	20506170506	06/16/2005	[1], [2]
*86-DUP-Q2-05	20506170509	06/16/2005	[1], [2]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86-EB-Q2-05	20506170510	06/16/2005	[1], [2]
86-TB-Q2-05	20506170511	06/16/2005	[1]

ANALYSES PERFORMED CODES:
[1] –Selective Volatile Organic Compounds (VOC) by method SW846 8260B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by HPLC method 8310,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO,
[4] – Lead by SW 846 method 6010B
* *86-DUP-Q2-05 blind field duplicate of 86-CEF43-2N-Q2-05*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

The findings of this quality assurance report are based upon the comprehensive review of the following results summaries reported according to the CCI Level C (CLP-like data deliverables format): chain of custody documentation, holding times, laboratory method and field blank analyses, surrogate compound recoveries, matrix spike compound recoveries and reproducibility, bromofluorobenzene (BFB) mass tuning results, initial and continuing calibration, second source recovery and internal standard area performance summaries, target compound identification, laboratory control sample results, laboratory and blind field duplicate sample results, detection limits/sensitivity, ICP interference check sample results, ICP serial dilution results, metals post digestion spikes, and electronic data deliverables.

The analyses were performed acceptably, but require several qualifying statements; it is recommended that the analytical data be used only with the qualifying statements provided below. Any aspects of the data, which are not discussed in this report, should be considered qualitatively and quantitatively valid as reported, based on the deliverables reviewed. A result summary report presenting the validated and qualified results is presented in Attachment I.

General Data Qualifiers

As required by U.S. EPA protocols, all compounds which were qualitatively identified at concentrations below their respective reporting limits (RL) but above the method detection limit (MDL) have been qualified with "J" qualifiers on the data summary reports to indicate that they are quantitative estimates.

GROUNDWATER CLEANUP TARGET ACTION LEVEL REGULARTORY LIMITS

All samples collected and analyzed for the month of June 16, 2005 for the volatile organic compounds, polyaromatic hydrocarbon compounds, total petroleum hydrocarbon, and metal-lead analyses were less than the action level groundwater cleanup target level regulartory limits with the exception of the analytes listed below:

Analyte	Affected Sample	Sample Results (ug/L)	Groundwater Cleanup Target Levels (ug/L)
Total Petroleum Hydrocarbon	86-CEF-43-2N-Q2-05	9170 JB	5000
Total Petroleum Hydrocarbon	86-DUP-Q2-05	7270 JB	5000
Lead	86-CEF43-6N-Q2-05	17	15

Organic Data Qualifiers

The quantitation limits reported for volatile organic compounds 1,1,2,2-tetrachloroethane and bromoform in the samples listed below should be considered quantitative estimates. High percent relative standard deviations during the continuing calibration were reported during the volatile organic analysis. Lack of precision during the continuing calibration indicates instrument instability; therefore "J" qualifiers were apprended to the samples listed below to indicate that the reported values are quantitative estimates.

Compound	Affected Samples
1,1,2,2-Tetrachloroethane	86-CEF43-2N-Q2-05, 86-CEF43-6N-Q2-05, 86-CEF43-7N-Q2-05, 86-CEF43-9N-Q2-05, 86-CEF43-33N-Q2-05, 86-CEF43-38N-Q2-05, and 86-DUP-Q2-05
Bromoform	86-CEF43-2N-Q2-05, 86-CEF43-6N-Q2-05, 86-CEF43-7N-Q2-05, 86-CEF43-9N-Q2-05, 86-CEF43-33N-Q2-05, 86-CEF43-38N-Q2-05, and 86-DUP-Q2-05

As a result of the second source calibration standards exceeding the 20 percent difference criterion for the samples listed in the table below, the quantitation limits for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene should be considered qualitative estimates. Second source recovery outside criteria indicates a lack of accuracy between this standard and the associated initial calibration for the compounds listed. The quantitation limits for these compounds in these samples have been appended with a "J" qualifier to indicate they are qualitative estimates.

Compound	Affected Samples
Benzo(g,h,i)perylene	86-CEF43-2N-Q2-05, 86-CEF43-6N-Q2-05, 86-CEF43-7N-Q2-05, 86-CEF43-9N-Q2-05, 86-CEF43-33N-Q2-05, 86-CEF43-38N-Q2-05, and 86-DUP-Q2-05
Indeno(1,2,3-cd)pyrene	86-CEF43-2N-Q2-05, 86-CEF43-6N-Q2-05, 86-CEF43-7N-Q2-05, 86-CEF43-9N-Q2-05, 86-CEF43-33N-Q2-05, 86-CEF43-38N-Q2-05, and 86-DUP-Q2-05

The positive results for the PAH compound 1-methylnaphthalene in the samples listed below should be considered quantitative estimates. The relative percent difference (RPD) between the results from the primary and confirmatory column analyses was greater than the acceptance criterion of 40 percent for these compounds. The positive results for this compound in the specified samples have been "J" qualified on the data summary tables to indicate that they are quantitative estimates.

Compound	Affected Samples
1-Methylnaphthalene	86-CEF43-2N-Q2-05, 86-CEF43-9N-Q2-05, and 86-DUP-Q2-05

The quantitation limit reported for 2-chloroethylvinyl ether for sample 86-CEF43-33N-Q2-05 should be considered a biased low quantitative estimate and may be higher than reported. The associated recoveries for the client specific matrix spike (MS) and matrix spike duplicate (MSD) samples were below the established quality control (QC) limit for this compound. The biased low recoveries for this compound may indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by appending a "J" qualifier next to the 2-chloroethylvinyl ether result for sample 86-CEF43-33N-Q2-05 in the data summary tables.

The positive results for total petroleum hydrocarbons (TPH) reported in the samples listed below are considered quantitative estimates due to the level at which these compounds were present in the associated equipment, and laboratory method blanks. This has been indicated in the data summary tables by placing a "JB" qualifier next to the reported values for samples associated with equipment blank contamination and a "B" qualifier for sample results associated with method blank contamination.

Compound	Affected Samples
TPH	86-CEF43-2N-Q2-05, 86-CEF43-6N-Q2-05, 86-CEF43-7N-Q2-05, 86-CEF43-9N-Q2-05, 86-CEF43-33N-Q2-05, 86-CEF43-38N-Q2-05, and 86-DUP-Q2-05

The samples presented below were analyzed at dilutions for the total petroleum hydrocarbon analysis. These dilutions may have resulted in surrogate compounds diluted below the instrument detection limit; therefore surrogate recoveries may not be reported for all diluted analysis. These dilutions were required to prevent saturation of the instrument and to allow quantitation of the compounds within the linear range of the calibration curve. Positive results for these compounds in the samples below have been reported from the diluted analyses. All other results and quantitation limits have been reported on the sample report summary from the initial analysis.

Sample ID	Analysis	Dilution Factor
86-CEF43-2N-Q2-05	FL-PRO	5x
86-DUP-Q2-05	FL-PRO	5x

Sample 86-CEF43-2N-Q2-0 and its blind field duplicate sample 86-DUP-Q2-05 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for volatile organic, polyaromatic hydrocarbons, and total petroleum by fl-pro analyses with the exception of naphthalene. A "J" qualifier was appended to these compounds for the native samples listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Naphthalene	86-CEF43-2N-Q2-05 and 86-DUP-Q2-05

Inorganic Data Qualifiers

Sample 86-CEF43-2N-Q2-05 and its blind field duplicate sample 86-DUP-Q2-05 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for water samples relative percent difference (RPD) for metal-lead analysis. The RPD was not calculated for the compounds that were not detected in both samples.

Summary

The organic and inorganic analyses were performed acceptably, but required qualifying statements. This analytical quality assurance report has identified the aspects of the data, which required qualification. These qualifiers are noted on the attached analytical sample summary reports. A support documentation package has been prepared for this quality assurance review and is filed with the Former NAS Cecil Field CTO 86/South Fuel Farm Annual Groundwater Sampling Event project file.

Attachment I

VALID QUALIFIERS

QUALIFIER	
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit
J	The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R/UR	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet the quality control criteria. The presence or absence of the analyte cannot be verified.
B	The analyte was detected in the associated method and/or calibration blank.
JB	The analyte detected in the associated field, equipment, and/or trip blank.

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
K	Second source %D was noncompliant.	Second source %D was noncompliant.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or high RPD.	MS/MSD recovery was poor or high RPD.
G	Result is over the calibration range. No other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable.	Lab duplicate RPD showed poor agreement.
Z	Field duplicate RPD showed poor agreement.	Field duplicate RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
TN	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER.
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Confirmation analysis RPD exceeded 40%.	Post Digestion Spike recovery was not within control limits.
T/D	Not applicable.	Total metals results were less than the dissolved metals result.
SD	Not applicable.	Seed correction factor was below the acceptable limit.
M	Results should be considered estimated due to matrix effects caused by saturation of non-target analytes.	Not applicable

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-2N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170501

Level: (low/med) LOW Lab File ID: 2050620/F2181

% Moisture: not dec. Date Collected: 06/16/05 Time: 1050

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1031

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	7.24		0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	7.70	J	0.509	10.0	

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-2N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170501

Level: (low/med) LOW

Lab File ID: 2050620/F2181

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1031

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-6N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170502

Level: (low/med) LOW Lab File ID: 2050620/F2185

% Moisture: not dec. Date Collected: 06/16/05 Time: 1145

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1210

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	5.00	U	0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	10.0	U	0.509	10.0	

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-6N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170502

Level: (low/med) LOW

Lab File ID: 2050620/F2185

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1145

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1210

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

C. K

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-7N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170503

Level: (low/med) LOW

Lab File ID: 2050620/F2186

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1320

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1234

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	5.00	U	0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	10.0	U	0.509	10.0	

FORM I VOA

C.V

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-7N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170503

Level: (low/med) LOW Lab File ID: 2050620/F2186

% Moisture: not dec. Date Collected: 06/16/05 Time: 1320

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1234

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

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FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-9N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170504

Level: (low/med) LOW Lab File ID: 2050620/F2187

% Moisture: not dec. Date Collected: 06/16/05 Time: 1425

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1259

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	7.87		0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	19.4		0.509	10.0	

FORM I VOA

C

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-9N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170504

Level: (low/med) LOW

Lab File ID: 2050620/F2187

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1425

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1259

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-33N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170505

Level: (low/med) LOW Lab File ID: 2050620/F2188

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1324

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U J	0.221	5.00	Q
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	5.00	U	0.227	5.00	
75-09-2	Methylene chloride	1.05	J	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	10.0	U	0.509	10.0	

C.R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-33N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170505

Level: (low/med) LOW Lab File ID: 2050620/F2188

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1324

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

C. L

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-38N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170506

Level: (low/med) LOW Lab File ID: 2050620/F2179

% Moisture: not dec. Date Collected: 06/16/05 Time: 1525

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0942

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	5.00	U	0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	10.0	U	0.509	10.0	

FORM I VOA

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-38N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170506

Level: (low/med) LOW Lab File ID: 2050620/F2179

% Moisture: not dec. Date Collected: 06/16/05 Time: 1525

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0942

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170509

Level: (low/med) LOW Lab File ID: 2050620/F2189

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1349

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00	
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U J	0.227	5.00	C
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00	
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00	
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00	
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00	
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00	
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00	
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00	
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00	
71-43-2	Benzene	5.00	U	0.225	5.00	
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00	
75-25-2	Bromoform	5.00	U J	0.216	5.00	C
74-83-9	Bromomethane	5.00	U	0.477	5.00	
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00	
108-90-7	Chlorobenzene	5.00	U	0.213	5.00	
75-00-3	Chloroethane	5.00	U	0.596	5.00	
67-66-3	Chloroform	5.00	U	0.194	5.00	
74-87-3	Chloromethane	5.00	U	0.453	5.00	
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00	
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00	
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00	
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00	
100-41-4	Ethylbenzene	6.82		0.227	5.00	
75-09-2	Methylene chloride	10.0	U	0.445	10.0	
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00	
108-88-3	Toluene	5.00	U	0.213	5.00	
79-01-6	Trichloroethene	5.00	U	0.270	5.00	
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00	
75-01-4	Vinyl chloride	5.00	U	0.089	5.00	
1330-20-7	Xylene (total)	7.84	J	0.509	10.0	

FORM I VOA

C

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170509

Level: (low/med) LOW

Lab File ID: 2050620/F2189

% Moisture: not dec.

Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1349

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

C. L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170510

Level: (low/med) LOW

Lab File ID: 2050620/F2180

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1650

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1007

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170510

Level: (low/med) LOW

Lab File ID: 2050620/F2180

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1650

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1007

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

c.L

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-TB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170511

Level: (low/med) LOW Lab File ID: 2050620/F2190

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1413

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-TB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170511

Level: (low/med) LOW Lab File ID: 2050620/F2190

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1413

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-2N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170501

Date Collected: 06/16/05 Time: 1050

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1251

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000717

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	4.01	J	0.291	1.00	P
91-57-6	2-Methylnaphthalene	2.53		0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	2.01	J	0.124	0.250	Z
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-6N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170502

Date Collected: 06/16/05 Time: 1145

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1259

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000718

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00	
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

C.K

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-7N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170503

Date Collected: 06/16/05 Time: 1320

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1307

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000719

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00	
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

C K

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-9N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170504

Date Collected: 06/16/05 Time: 1425

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1315

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000720

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	7.87	J	0.291	1.00	P
91-57-6	2-Methylnaphthalene	1.73		0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	11.9		0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605
CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-33N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170505
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1323
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050628/H0000721

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00	
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-38N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170506

Date Collected: 06/16/05 Time: 1525

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1331

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000722

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00	
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	0.250	U	0.124	0.250	
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

c. K

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-DUP-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170509

Date Collected: Time:

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1355

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000725

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
90-12-0	1-Methylnaphthalene	3.49	J	0.291	1.00	P
91-57-6	2-Methylnaphthalene	2.14		0.142	1.00	
83-32-9	Acenaphthene	1.00	U	0.331	1.00	
208-96-8	Acenaphthylene	1.00	U	0.153	1.00	
120-12-7	Anthracene	0.100	U	0.024	0.100	
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100	
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100	
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100	
191-24-2	Benzo(g,h,i)perylene	0.100	U J	0.016	0.100	K
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100	
218-01-9	Chrysene	0.100	U	0.030	0.100	
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100	
206-44-0	Fluoranthene	0.100	U	0.044	0.100	
86-73-7	Fluorene	0.500	U	0.099	0.500	
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U J	0.041	0.250	K
91-20-3	Naphthalene	1.35	J	0.124	0.250	Z
85-01-8	Phenanthrene	0.100	U	0.025	0.100	
129-00-0	Pyrene	0.100	U	0.034	0.100	

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-EB-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170510

Date Collected: 06/16/05 Time: 1650

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1403

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000726

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

C. K

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-2N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170501
Date Collected: 06/16/05 Time: 1050
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 1528
Dilution Factor: 5 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B079S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	9170	J B	204	500	F, MB

C.A

FORM I ORG-1

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 900 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164
CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-6N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170502
Date Collected: 06/16/05 Time: 1145
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2136
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B063S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	1100	J B	45.2	111	F, mB

O.A

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	86-CEF43-7N-Q2-05
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 205061705
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20506170503
Level: (low/med)	LOW	Date Collected:	06/16/05 Time: 1320
% Moisture:	decanted: (Y/N)	Date Received:	06/17/05
GC Column:	ID: (mm)	Date Extracted:	06/21/05
Concentrated Extract Volume:	2000 (µL)	Date Analyzed:	06/22/05 Time: 2211
Soil Aliquot Volume:	(µL)	Dilution Factor:	1 Analyst: TLS
Injection Volume:	1 (µL)	Prep Method:	FLORIDA PRO
GPC Cleanup: (Y/N)	N pH:	Analytical Method:	FLORIDA PRO
Prep Batch:	293949 Analytical Batch: 294164	Sulfur Cleanup: (Y/N)	N Instrument ID: GCS14A
CONCENTRATION UNITS:	*ug/L*	Lab File ID:	2050622/SV14B064S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	184	J B	40.7	100	F, mB

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293949 Analytical Batch: 294164

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-9N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170504

Date Collected: 06/16/05 Time: 1425

Date Received: 06/17/05

Date Extracted: 06/21/05

Date Analyzed: 06/22/05 Time: 2247

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

Lab File ID: 2050622/SV14B065S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	3170	J B	40.7	100	F, mB

C.A

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293949 Analytical Batch: 294164

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-33N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170505

Date Collected: 06/16/05 Time: 1620

Date Received: 06/17/05

Date Extracted: 06/21/05

Date Analyzed: 06/22/05 Time: 2322

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

Lab File ID: 2050622/SV14B066S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	175	J B	40.7	100	F, mB

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293949 Analytical Batch: 294164

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-CEF43-38N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170506

Date Collected: 06/16/05 Time: 1525

Date Received: 06/17/05

Date Extracted: 06/21/05

Date Analyzed: 06/22/05 Time: 2356

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

Lab File ID: 2050622/SV14B067S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	183	JB	40.7	100	F, mB

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293949 Analytical Batch: 294164

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-DUP-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170509

Date Collected: Time:

Date Received: 06/17/05

Date Extracted: 06/21/05

Date Analyzed: 06/23/05 Time: 1602

Dilution Factor: 5 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

Lab File ID: 2050622/SV14B080S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	7270	J B	204	500	F, mB

CR

FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 2000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293949 Analytical Batch: 294164

CONCENTRATION UNITS: *ug/L*

Sample ID: 86-EB-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170510

Date Collected: 06/16/05 Time: 1650

Date Received: 06/17/05

Date Extracted: 06/21/05

Date Analyzed: 06/23/05 Time: 1305

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

Lab File ID: 2050622/SV14B078S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	185	~~B~~	40.7	100

C.L

FORM I ORG-1

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-2N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170501
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1050

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-6N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170502
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1145

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.017	mg/L		0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-7N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170503
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1320

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

a. L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL

Sample ID: 86-CEF43-9N-Q2-05

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205061705

Level: (low / med) % Solids:

Lab Sample ID: 20506170504

Date Received: 06/17/05 Time: 1020

Date Collected: 06/16/05 Time: 1425

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-33N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170505
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1620

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

C.L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-38N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170506
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1525

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

C.L

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-DUP-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170509
Date Received: 06/17/05
Time: 1020
Date Collected:
Time:

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

C.R

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-EB-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170510
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1650

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

C.L

FORM I - IN

CH2M Hill / 4580 / WSU 61705 / 1 Jul 6/24/05

CH2MHILL Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 171591-040 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Gulf Coast Labs. Dano Merril	Kama White CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm Annual GW Sampling Event	0086	6442	Jeff Marks CH2M Hill Constuctors, Inc.	6219 Authority Ave. Jacksonville, FL 32221 (904) 7774812,FAX: (904) 7774262
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TVOH by ~~624~~	BTEX & MTBE by ~~8021B~~ 8260	PAHs by 8310	Lead by 6010B	TRPH by FL-PRO					SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86-CEF43-2N-Q2-05	CEF-043-2N	W	06/16/05	1050	III/C	14	3	2	1	2						Grab		-1
2	86-CEF43-6N-Q2-05	CEF-043-6N	W	06/16/05	1145	III/C	14	3	2	1	2						Grab		-2
3	86-CEF43-7N-Q2-05	CEF-043-7N	W	06/16/05	1320	III/C	14	3	2	1	2						Grab		3
4	86-CEF43-9N-Q2-05	CEF-043-9N	W	06/16/05	1425	III/C	14	3	2	1	2						Grab		4
5	86-CEF43-33N-Q2-05	CEF-043-33N	W	06/16/05	1620	III/C	14	3	2	1	2						Grab	MS/MSD	5
6	86-CEF43-38N-Q2-05	CEF-043-38N	W	06/16/05	1525	III/C	14	3	2	1	2						Grab		6
7	86-MS-Q2-05	Matrix Spike	W	06/16/05	1620	III/C	14	3	2	1	2						Grab	CEF-043-33N	7
8	86-MSD-Q2-05	Matrix Spike Duplicate	W	06/16/05	1620	III/C	14	3	2	1	2						Grab	CEF-043-33N	8
9	86-DUP-Q2-05	Field Duplicate	W	NA	NA	III/C	14	3	2	1	2						Grab		9
10	86-EB-Q2-05	Equipment Blank	W	06/16/05	1650	III/C	14	3	2	1	2						Grab		10
11	86-TB-Q2-05	Trip Blank	W	NA	NA	III/C	14	3									Grab	Prepared by Lab	11

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Greg Ramey AGVIQ Environmental Services / CH2M HILL	Federal Express TRK # 791654035748, 791654035770, 791654035818, 791654035851, 791654035873, 791654035895.	3°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	6/16/2005	11:00	Federal Express TRK # 791654035748, 791654035770, 791654035818, 791654035851, 791654035873, 791654035895.	6/16/2005	11:00
Printed Name and Signature:			Printed Name and Signature:		
FedEx	6/17/05	1020	Anna Kuchler	6/17/05	1020
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report);[ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

000635

2506175

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 06/30/2005

GCAL Report 205061705

Deliver To	CH2M Hill Constructors, Inc 115 Perimeter Center Place NE Atlanta, GA 30346 770-604-9182 Ext. 564
Attn	Kama White

Customer CH2M Hill Constructors

Project CTO 86 Cecil Field - South Fue

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 205061705

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis for analytical batch 293940, the MS/MSD exhibited sporadic recovery and RPD failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida PRO analysis, samples 20506170501 (86-CEF43-2N-Q2-05) and 20506170509 (86-DUP-Q2-05) had to be diluted to bracket target compounds within the calibration range of the instrument. This is reflected in elevated reporting limits.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8310 analysis for prep batch 293866, the MS/MSD exhibited RPD failures, however, all compounds were recovered within quality control limits in the LCS.

In the SW-846 8310 analysis, confirmation runs were done by method 8270.

In the SW-846 8310 analysis, Benzo(g,h,i)perylene and Indeno(1,2,3-cd)perylene were above the upper control limits in the ICV analyzed on HPLC at 16:05, on 06/28/2005.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 205061705

THIS REPORT CONTAINS 638 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20506170501	86-CEF43-2N-Q2-05	Water	06/16/2005 10:50	06/17/2005 10:20
20506170502	86-CEF43-6N-Q2-05	Water	06/16/2005 11:45	06/17/2005 10:20
20506170503	86-CEF43-7N-Q2-05	Water	06/16/2005 13:20	06/17/2005 10:20
20506170504	86-CEF43-9N-Q2-05	Water	06/16/2005 14:25	06/17/2005 10:20
20506170505	86-CEF43-33N-Q2-05	Water	06/16/2005 16:20	06/17/2005 10:20
20506170506	86-CEF43-38N-Q2-05	Water	06/16/2005 15:25	06/17/2005 10:20
20506170507	86-MS-Q2-05	Water	06/16/2005 16:20	06/17/2005 10:20
20506170508	86-MSD-Q2-05	Water	06/16/2005 16:20	06/17/2005 10:20
20506170509	86-DUP-Q2-05	Water		06/17/2005 10:20
20506170510	86-EB-Q2-05	Water	06/16/2005 16:50	06/17/2005 10:20
20506170511	86-TB-Q2-05	Water		06/17/2005 10:20

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1 .	86-CEF43-2N-Q2-05	107		111		107		109		0
2 .	86-EB-Q2-05	107		104		104		105		0
3 .	86-TB-Q2-05	108		114		107		114		0
4 .	LCS250949	110		103		107		106		0
5 .	MB250948	108		103		104		104		0
6 .	86-CEF43-6N-Q2-05	112		107		109		111		0
7 .	86-CEF43-7N-Q2-05	109		110		106		114		0
8 .	86-CEF43-9N-Q2-05	108		112		106		105		0
9 .	86-CEF43-33N-Q2-05	108		106		108		110		0
10 .	86-CEF43-38N-Q2-05	111		107		113		109		0
11 .	86-MS-Q2-05	112		108		107		110		0
12 .	86-MSD-Q2-05	109		108		106		110		0
13 .	86-DUP-Q2-05	109		104		107		112		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	78 - 130
SMC 2	Dibromofluoromethane	77 - 127
SMC 3	Toluene-d8	76 - 134
SMC 4	1,2-Dichloroethane-d4	71 - 127

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Analytical Batch: 293940

SAMPLE NO. : 250949

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	25.4	102		76 - 122
1,1,2,2-Tetrachloroethane	ug/L	25	0	32	128		71 - 143
1,1,2-Trichloroethane	ug/L	25	0	28.1	112		77 - 130
1,1-Dichloroethene	ug/L	25	0	23.9	96		76 - 127
1,2-Dichlorobenzene	ug/L	25	0	25.4	102		80 - 125
1,2-Dichloroethane	ug/L	25	0	24.5	98		75 - 122
1,2-Dichloropropane	ug/L	25	0	25.7	103		78 - 121
1,3-Dichlorobenzene	ug/L	25	0	25.4	102		80 - 127
1,4-Dichlorobenzene	ug/L	25	0	26.1	104		80 - 127
2-Chloroethylvinyl ether	ug/L	25	0	26.2	105		48 - 143
Benzene	ug/L	25	0	25.2	101		80 - 120
Bromodichloromethane	ug/L	25	0	26.9	108		77 - 120
Bromoform	ug/L	25	0	30.8	123		73 - 130
Bromomethane	ug/L	25	0	24.3	97		34 - 172
Carbon tetrachloride	ug/L	25	0	26.6	106		73 - 125
Chlorobenzene	ug/L	25	0	25	100		80 - 125
Chloroethane	ug/L	25	0	21.3	85		61 - 139
Chloroform	ug/L	25	0	25.2	101		75 - 120
Chloromethane	ug/L	25	0	22.5	90		63 - 133
Dibromochloromethane	ug/L	25	0	29.9	120		78 - 130
Dichlorodifluoromethane	ug/L	25	0	26.4	106		61 - 140
Ethylbenzene	ug/L	25	0	24.6	98		80 - 125
Methylene chloride	ug/L	25	0	22.6	90		61 - 133
Tetrachloroethene	ug/L	25	0	26.2	105		77 - 129
Toluene	ug/L	25	0	25.8	103		80 - 124
Trichloroethene	ug/L	25	0	25	100		79 - 121
Trichlorofluoromethane	ug/L	25	0	22.8	91		62 - 140
Vinyl chloride	ug/L	25	0	25.3	101		69 - 130
Xylene (total)	ug/L	75	0	75.9	101		80 - 129
cis-1,3-Dichloropropene	ug/L	25	0	27	108		76 - 121
tert-Butyl methyl ether (MTBE)	ug/L	25	0	24.2	97		72 - 127
trans-1,2-Dichloroethene	ug/L	25	0	23.6	94		73 - 128
trans-1,3-Dichloropropene	ug/L	25	0	28.2	113		75 - 128

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 33 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix Spike - EPA Sample No: 86-CEF43-33N-Q2-05

Analytical Batch: 293940

SAMPLE NO. : 20506170507

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	25.9	104		76 - 122
1,1,2,2-Tetrachloroethane	ug/L	25	0	31.4	126		71 - 143
1,1,2-Trichloroethane	ug/L	25	0	29.3	117		77 - 130
1,1-Dichloroethene	ug/L	25	0	25.5	102		76 - 127
1,2-Dichlorobenzene	ug/L	25	0	26.9	108		80 - 125
1,2-Dichloroethane	ug/L	25	0	26.6	106		75 - 122
1,2-Dichloropropane	ug/L	25	0	26	104		78 - 121
1,3-Dichlorobenzene	ug/L	25	0	26.4	106		80 - 127
1,4-Dichlorobenzene	ug/L	25	0	27.4	110		80 - 127
2-Chloroethylvinyl ether	ug/L	25	0	0	0	*	48 - 143
Benzene	ug/L	25	0	26.3	105		80 - 120
Bromodichloromethane	ug/L	25	0	29.5	118		77 - 120
Bromoform	ug/L	25	0	33.8	135	*	73 - 130
Bromomethane	ug/L	25	0	24.1	96		34 - 172
Carbon tetrachloride	ug/L	25	0	27.1	108		73 - 125
Chlorobenzene	ug/L	25	0	27.2	109		80 - 125
Chloroethane	ug/L	25	0	28.9	116		61 - 139
Chloroform	ug/L	25	0	26.9	108		75 - 120
Chloromethane	ug/L	25	0	24.5	98		63 - 133
Dibromochloromethane	ug/L	25	0	32.6	130		78 - 130
Dichlorodifluoromethane	ug/L	25	0	27.5	110		61 - 140
Ethylbenzene	ug/L	25	0	27	108		80 - 125
Methylene chloride	ug/L	25	1.05	24	92		61 - 133
Tetrachloroethene	ug/L	25	0	27.1	108		77 - 129
Toluene	ug/L	25	0	26.4	106		80 - 124
Trichloroethene	ug/L	25	0	25.4	102		79 - 121
Trichlorofluoromethane	ug/L	25	0	25.3	101		62 - 140
Vinyl chloride	ug/L	25	0	25.8	103		69 - 130
Xylene (total)	ug/L	75	0	81.3	108		80 - 129
cis-1,3-Dichloropropene	ug/L	25	0	27.6	110		76 - 121
tert-Butyl methyl ether (MTBE)	ug/L	25	0	27.1	108		72 - 127
trans-1,2-Dichloroethene	ug/L	25	0	26	104		73 - 128
trans-1,3-Dichloropropene	ug/L	25	0	30	120		75 - 128

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 33 outside limits

Spike Recovery: 3 out of 66 outside limits

FORM III VOA-1

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix Spike - EPA Sample No: 86-CEF43-33N-Q2-05

Analytical Batch: 293940

SAMPLE NO. : 20506170508

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	25	26.1	104		.8		76 - 122	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	25	28.3	113		10		71 - 143	0 - 30
1,1,2-Trichloroethane	ug/L	25	27.4	110		7		77 - 130	0 - 30
1,1-Dichloroethene	ug/L	25	21.5	86		17	*	76 - 127	0 - 14
1,2-Dichlorobenzene	ug/L	25	26.4	106		2		80 - 125	0 - 30
1,2-Dichloroethane	ug/L	25	26	104		2		75 - 122	0 - 30
1,2-Dichloropropane	ug/L	25	27.3	109		5		78 - 121	0 - 30
1,3-Dichlorobenzene	ug/L	25	25.9	104		2		80 - 127	0 - 30
1,4-Dichlorobenzene	ug/L	25	26.1	104		5		80 - 127	0 - 30
2-Chloroethylvinyl ether	ug/L	25	0	0	*	0		48 - 143	0 - 30
Benzene	ug/L	25	25.6	102		3		80 - 120	0 - 11
Bromodichloromethane	ug/L	25	28.3	113		4		77 - 120	0 - 30
Bromoform	ug/L	25	28.3	113		18		73 - 130	0 - 30
Bromomethane	ug/L	25	27.4	110		13		34 - 172	0 - 30
Carbon tetrachloride	ug/L	25	26.6	106		2		73 - 125	0 - 30
Chlorobenzene	ug/L	25	26.2	105		4		80 - 125	0 - 13
Chloroethane	ug/L	25	27.6	110		5		61 - 139	0 - 30
Chloroform	ug/L	25	27	108		.4		75 - 120	0 - 30
Chloromethane	ug/L	25	25.2	101		3		63 - 133	0 - 30
Dibromochloromethane	ug/L	25	30.5	122		7		78 - 130	0 - 30
Dichlorodifluoromethane	ug/L	25	26.7	107		3		61 - 140	0 - 30
Ethylbenzene	ug/L	25	25.1	100		7		80 - 125	0 - 30
Methylene chloride	ug/L	25	22.4	85		7		61 - 133	0 - 30
Tetrachloroethene	ug/L	25	26.4	106		3		77 - 129	0 - 30
Toluene	ug/L	25	25.3	101		4		80 - 124	0 - 13
Trichloroethene	ug/L	25	24	96		6		79 - 121	0 - 14
Trichlorofluoromethane	ug/L	25	27.3	109		8		62 - 140	0 - 30
Vinyl chloride	ug/L	25	25	100		3		69 - 130	0 - 30
Xylene (total)	ug/L	75	76.4	102		6		80 - 129	0 - 30
cis-1,3-Dichloropropene	ug/L	25	27.9	112		1		76 - 121	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	25	23.4	94		15		72 - 127	0 - 30
trans-1,2-Dichloroethene	ug/L	25	23.9	96		8		73 - 128	0 - 30
trans-1,3-Dichloropropene	ug/L	25	27.3	109		9		75 - 128	0 - 30

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD : 1 out of 33 outside limits

Spike Recovery: 3 out of 66 outside limits

FORM III VOA-1

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB250948

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab File ID: 2050620/F2178

Lab Sample ID: 250948 Date Extracted:

GC Column: DB-624-30M ID: .53 (mm)

Date Analyzed: 06/20/05 Time: 0903

Instrument ID: MSV5 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 293940

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS250949	250949	2050620/F2177	06/20/05	0839
2.	86-CEF43-38N-Q2-05	20506170506	2050620/F2179	06/20/05	0942
3.	86-EB-Q2-05	20506170510	2050620/F2180	06/20/05	1007
4.	86-CEF43-2N-Q2-05	20506170501	2050620/F2181	06/20/05	1031
5.	86-MS-Q2-05	20506170507	2050620/F2182M	06/20/05	1056
6.	86-MSD-Q2-05	20506170508	2050620/F2183M	06/20/05	1121
7.	86-CEF43-6N-Q2-05	20506170502	2050620/F2185	06/20/05	1210
8.	86-CEF43-7N-Q2-05	20506170503	2050620/F2186	06/20/05	1234
9.	86-CEF43-9N-Q2-05	20506170504	2050620/F2187	06/20/05	1259
10.	86-CEF43-33N-Q2-05	20506170505	2050620/F2188	06/20/05	1324
11.	86-DUP-Q2-05	20506170509	2050620/F2189	06/20/05	1349
12.	86-TB-Q2-05	20506170511	2050620/F2190	06/20/05	1413

FORM IV VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab File ID: 2050613/F1892

BFB Injection Date: 06/13/05

Instrument ID: MSV5

BFB Injection Time: 1111

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 293590

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17	(	)	
75	30.0 - 60.0% of mass 95	39	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.12	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 120.0% of mass 95	82.98	(	)	
175	5.0 - 9.0% of mass 174	6.42	(7.74	)	1
176	95.0 - 101.0% of mass 174	82.55	(99.49	)	1
177	5.0 - 9.0% of mass 176	5.41	(6.56	)	2

1- Value is % mass 174

2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V5STD001	1207	2050613/F1893	06/13/05	1204
2.	V5STD005	1201	2050613/F1895	06/13/05	1229
3.	V5STD010	1208	2050613/F1896	06/13/05	1253
4.	V5STD020	1202	2050613/F1897	06/13/05	1318
5.	V5STD050	1203	2050613/F1898	06/13/05	1342
6.	V5STD100	1204	2050613/F1899	06/13/05	1406
7.	V5STD200	1205	2050613/F1900	06/13/05	1431
8.	8260ICV	1600	2050613/F1902	06/13/05	1521

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab File ID: 2050620/F2173

BFB Injection Date: 06/20/05

Instrument ID: MSV5

BFB Injection Time: 0623

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 293940

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	16.7	(	)	
75	30.0 - 60.0% of mass 95	40.82	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.04	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 120.0% of mass 95	88.85	(	)	
175	5.0 - 9.0% of mass 174	7.25	(8.16	)	1
176	95.0 - 101.0% of mass 174	86.58	(97.45	)	1
177	5.0 - 9.0% of mass 176	5.83	(6.74	)	2

1- Value is % mass 174 2- Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	V5STD050	1400	2050620/F2175	06/20/05	0735
2.	LCS250949	250949	2050620/F2177	06/20/05	0839
3.	MB250948	250948	2050620/F2178	06/20/05	0903
4.	86-CEF43-38N-Q2-05	20506170506	2050620/F2179	06/20/05	0942
5.	86-EB-Q2-05	20506170510	2050620/F2180	06/20/05	1007
6.	86-CEF43-2N-Q2-05	20506170501	2050620/F2181	06/20/05	1031
7.	86-MS-Q2-05	20506170507	2050620/F2182M	06/20/05	1056
8.	86-MSD-Q2-05	20506170508	2050620/F2183M	06/20/05	1121
9.	86-CEF43-6N-Q2-05	20506170502	2050620/F2185	06/20/05	1210
10.	86-CEF43-7N-Q2-05	20506170503	2050620/F2186	06/20/05	1234
11.	86-CEF43-9N-Q2-05	20506170504	2050620/F2187	06/20/05	1259
12.	86-CEF43-33N-Q2-05	20506170505	2050620/F2188	06/20/05	1324
13.	86-DUP-Q2-05	20506170509	2050620/F2189	06/20/05	1349
14.	86-TB-Q2-05	20506170511	2050620/F2190	06/20/05	1413

FORM V VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Lab File ID (Standard): 2050620/F2175
Date Analyzed: 06/20/05
Instrument ID: MSV5
Time: 0735
GC Column: DB-624-30M ID: .53 (mm)
Heated Purge: (Y/N) N
Analytical Batch: 293940

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	327861	8.343	285274	9.944	798649	6.048

EPA Sample		#		#		#		#		#		#
1 . LCS250949	318587		8.34		278266		9.94		775429		6.04	
2 . 86-CEF43-9N-Q2-05	300256		8.34		259052		9.94		748687		6.04	
3 . 86-CEF43-33N-Q2-05	298122		8.34		268061		9.94		753365		6.04	
4 . 86-DUP-Q2-05	299533		8.34		264784		9.95		729028		6.05	
5 . 86-TB-Q2-05	300182		8.34		265820		9.94		744327		6.04	
6 . MB250948	314842		8.33		268562		9.94		759222		6.04	
7 . 86-CEF43-38N-Q2-05	307872		8.33		279447		9.94		783259		6.04	
8 . 86-EB-Q2-05	317492		8.33		268030		9.94		774754		6.04	
9 . 86-CEF43-2N-Q2-05	305997		8.34		268993		9.94		750896		6.04	
10 . 86-MS-Q2-05	301228		8.33		275754		9.94		742615		6.04	
11 . 86-MSD-Q2-05	312005		8.34		282010		9.94		760650		6.04	
12 . 86-CEF43-6N-Q2-05	297375		8.33		271293		9.95		742577		6.04	
13 . 86-CEF43-7N-Q2-05	294860		8.33		253429		9.94		717674		6.04	

IS 1 ID : Chlorobenzene-d5
IS 2 ID : 1,4-Dichlorobenzene-d4
IS 3 ID : Fluorobenzene

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RTLOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Value outside of QC limits

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-2N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170501

Level: (low/med) LOW

Lab File ID: 2050620/F2181

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1050

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1031

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	7.24		0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	7.70	J	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-2N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170501

Level: (low/med) LOW Lab File ID: 2050620/F2181

% Moisture: not dec. Date Collected: 06/16/05 Time: 1050

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1031

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2181.d
Lab Smp Id: 20506180501 Client Smp ID: 86-CEF43-2N-Q2-05
Inj Date : 20-JUN-2005 10:31
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180501*86-CEF43-2N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
37 Cyclohexane	56	5.506	5.501	(0.912)	79187	11.5385	11.5	4337
$ 38 Dibromofluoromethane	111	5.518	5.519	(0.914)	203893	55.3660	55.4	4479
$ 45 1,2-Dichloroethane-d4	67	5.811	5.819	(0.962)	106611	54.6713	54.7	
* 47 FLUOROBENZENE	96	6.040	6.048	(1.000)	750896	50.0000		
$ 60 Toluene-d8	98	7.246	7.245	(0.869)	728963	53.3952	53.4	
* 70 CHLOROBENZENE-d5	82	8.337	8.343	(1.000)	305997	50.0000		
72 Ethylbenzene +	106	8.396	8.402	(1.007)	42061	7.23912	7.24	
74 p,m-Xylene	106	8.484	8.485	(1.018)	8968	1.26196	1.26	
75 o-Xylene	106	8.777	8.778	(1.053)	43967	6.44011	6.44	
$ 80 Bromofluorobenzene	174	9.170	9.172	(1.100)	230293	53.5350	53.5	
85 n-Propylbenzene	91	9.299	9.296	(0.935)	22931	1.08738	1.09	
88 1,3,5-Trimethylbenzene	105	9.405	9.408	(0.946)	15241	1.11241	1.11	
92 1,2,4-Trimethylbenzene	105	9.669	9.667	(0.972)	69969	4.99499	4.99	(H)
* 99 1,4-DICHLOROBENZENE-D4	152	9.945	9.944	(1.000)	268993	50.0000		

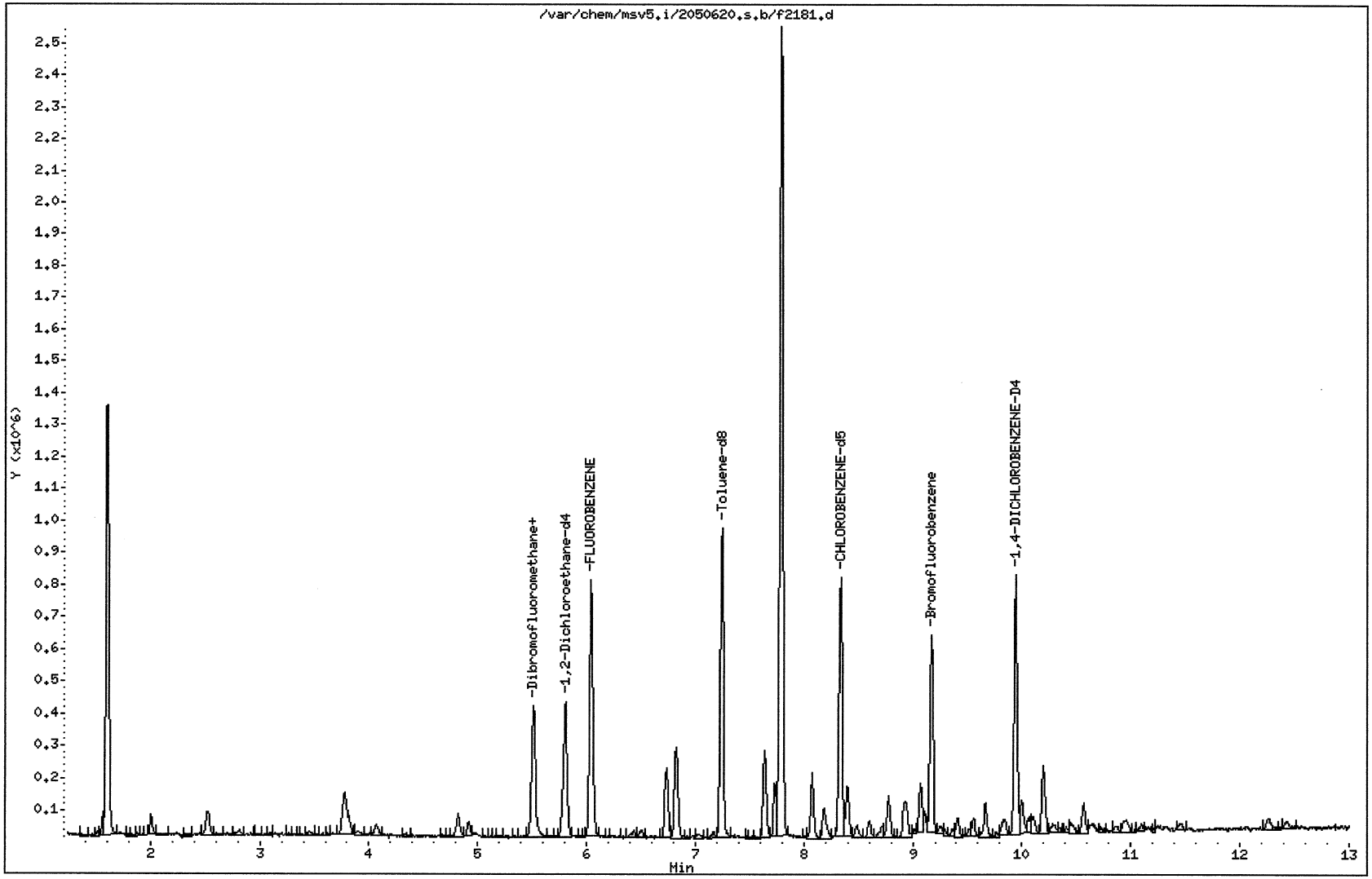
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
M 101 TOTAL XYLENE	106				52935	7.70207	7.70	
108 Naphthalene	128	11.451	11.449	(1.151)	27689	2.31238	2.31	

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050620.s.b/f2181.d
Date : 20-JUN-2005 10:31
Client ID: 86-CEF43-2N-Q2-05
Sample Info: 20506180501*86-CEF43-2N-Q2-05
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i
Operator: KCB
Column diameter: 0.53



000017

Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

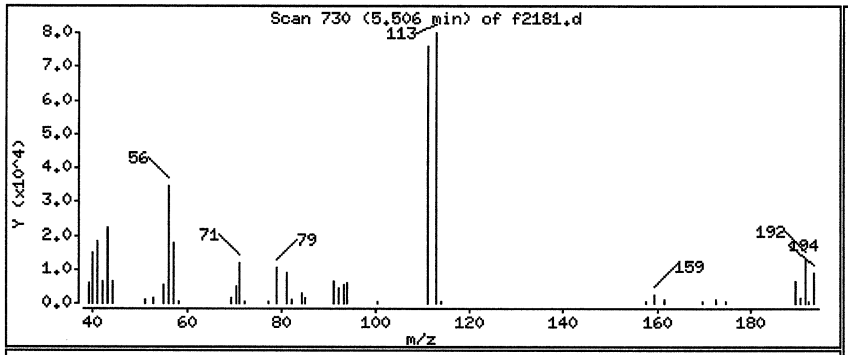
Operator: KCB

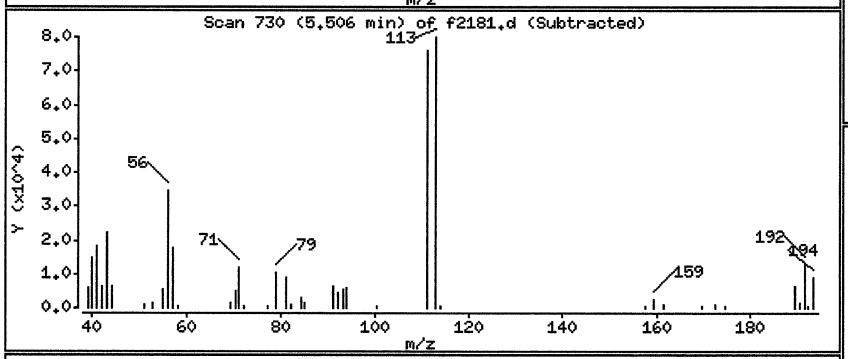
Column phase: DB-624-30M

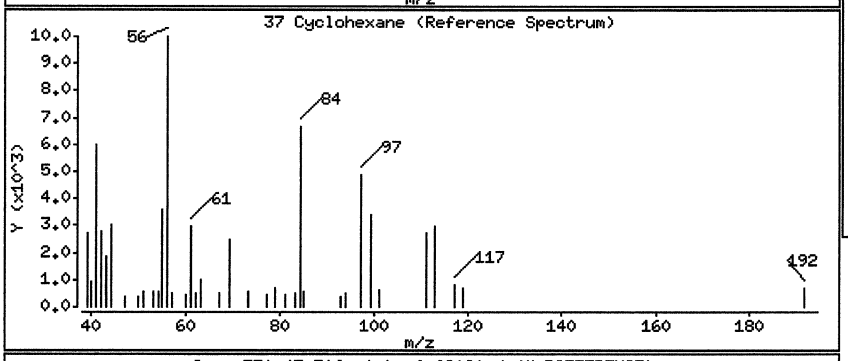
Column diameter: 0.53

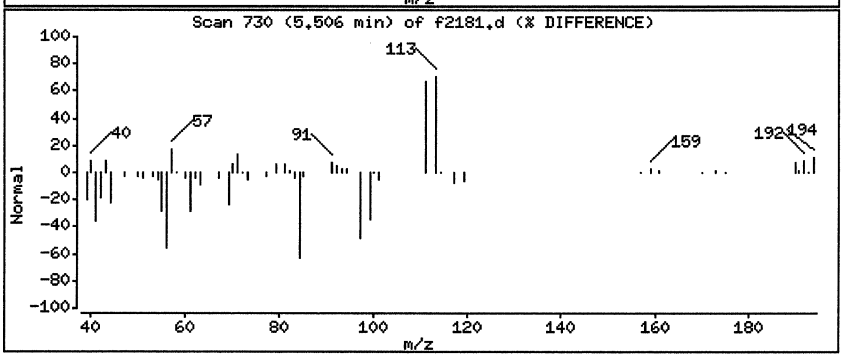
37 Cyclohexane

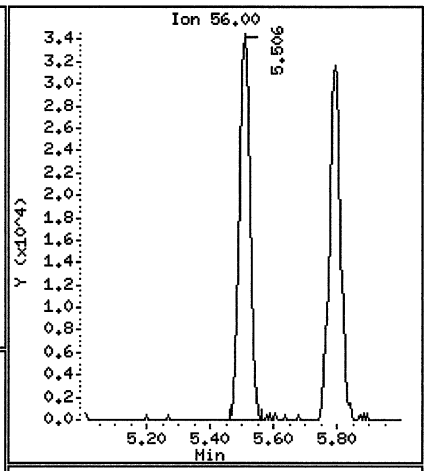
Concentration: 11.5 ug/L

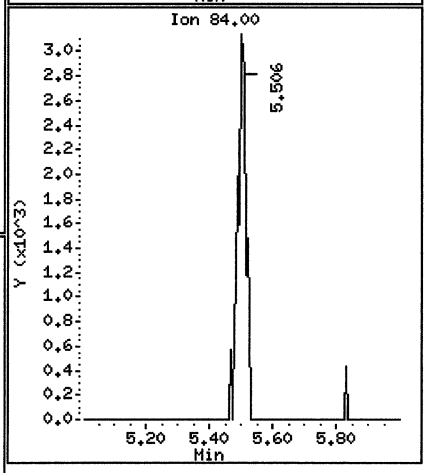












Data File: /var/chem/msv5.i/20050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

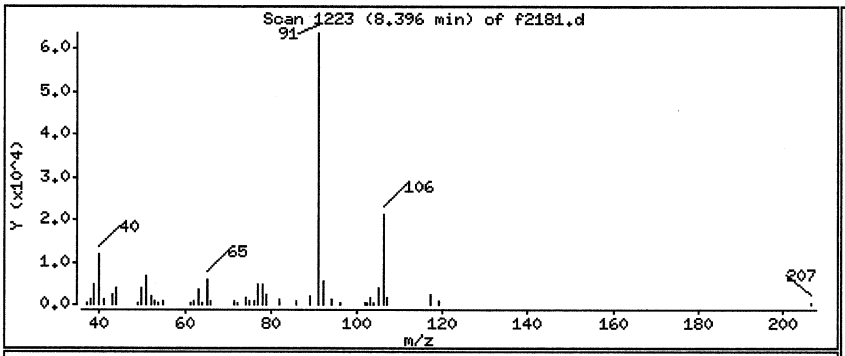
Operator: KCB

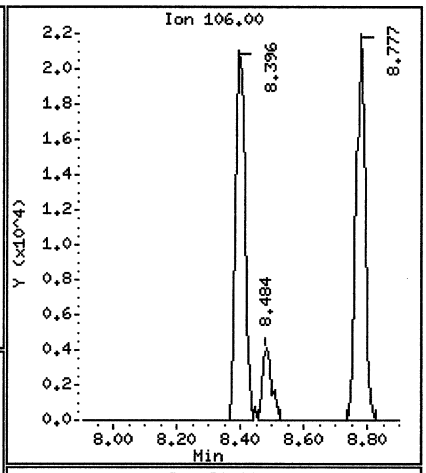
Column phase: DB-624-30M

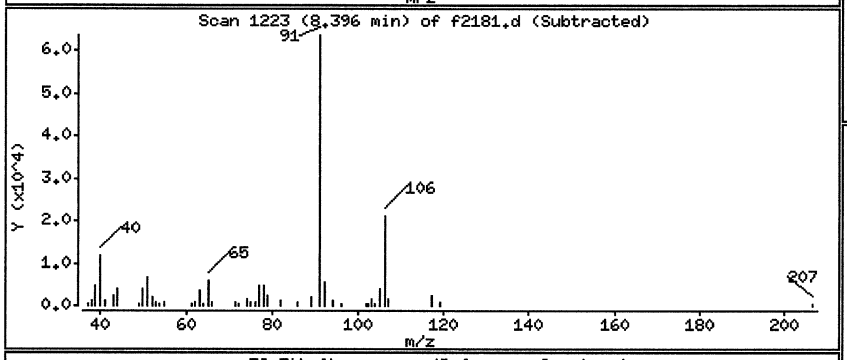
Column diameter: 0.53

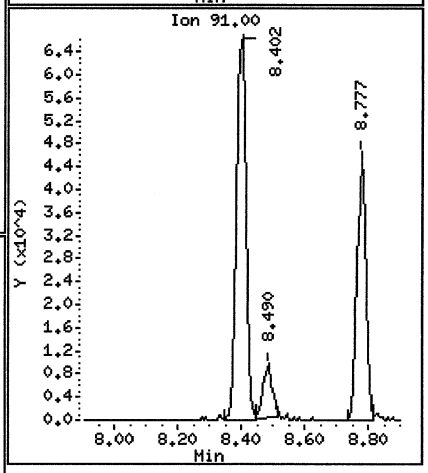
72 Ethylbenzene +

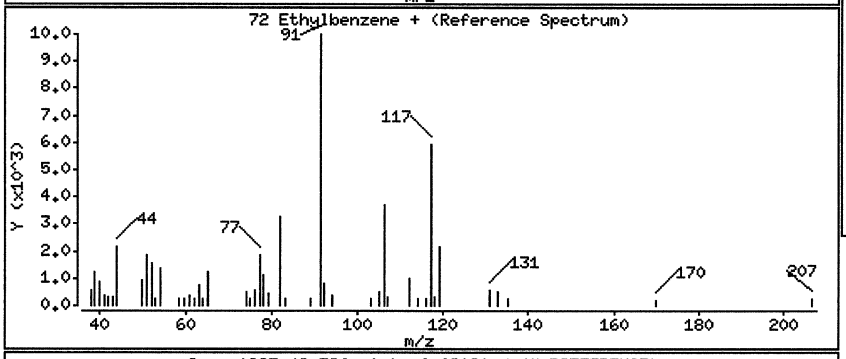
Concentration: 7.24 ug/L

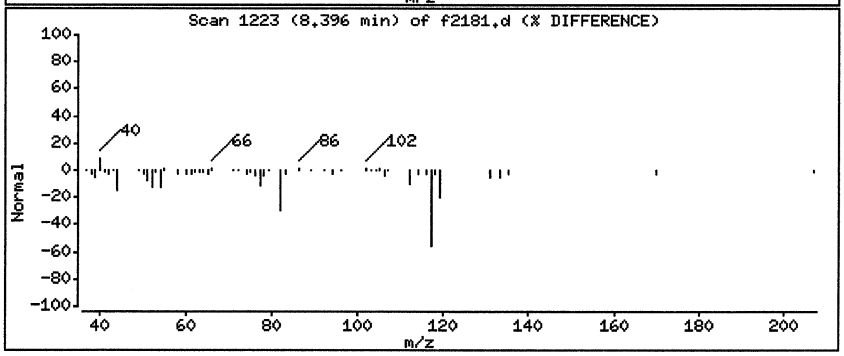












Data File: /var/chem/msv5.i/20506 20.s.b/f2181.d

Date : 20-JUN-2005 10:31

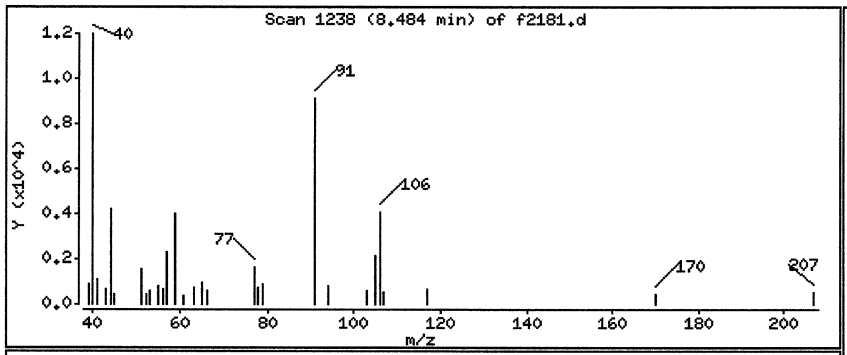
Client ID: 86-CEF43-2N-Q2-05 Instrument: msv5.i

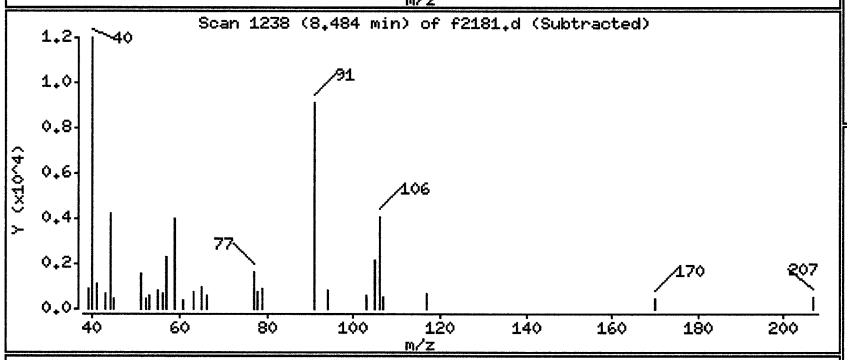
Sample Info: 20506180501*86-CEF43-2N-Q2-05

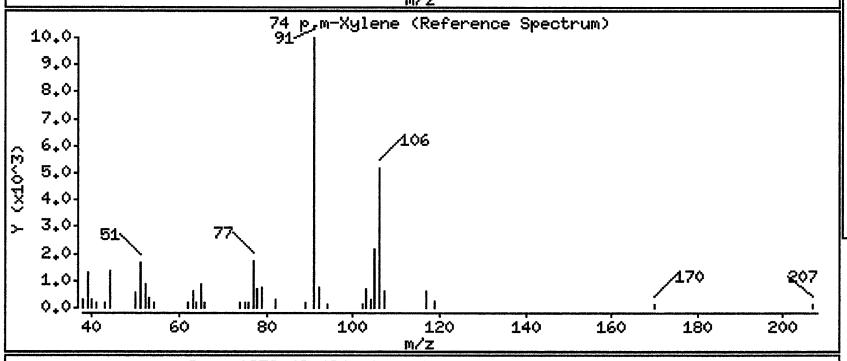
Purge Volume: 5.0 Operator: KCB

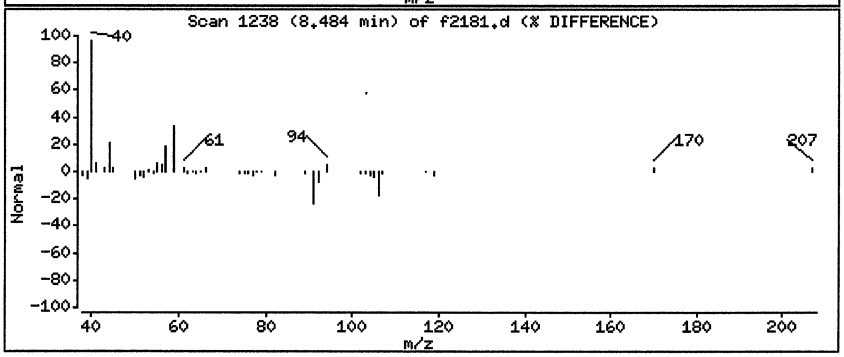
Column phase: DB-624-30M Column diameter: 0.53

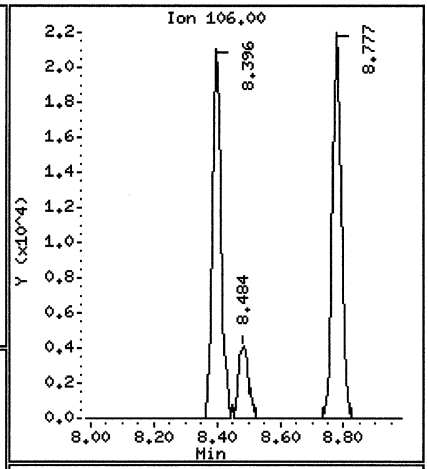
74 p,m-Xylene Concentration: 1.26 ug/L

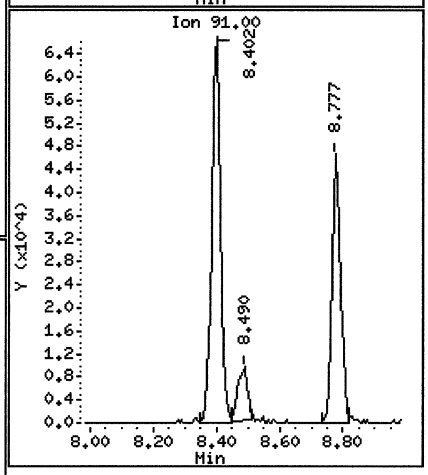












Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

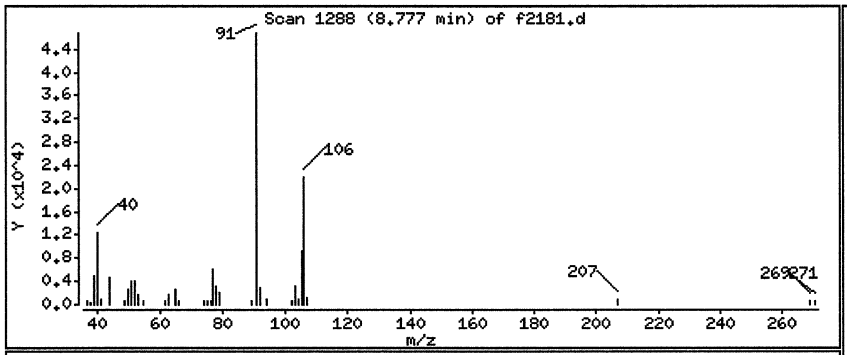
Operator: KCB

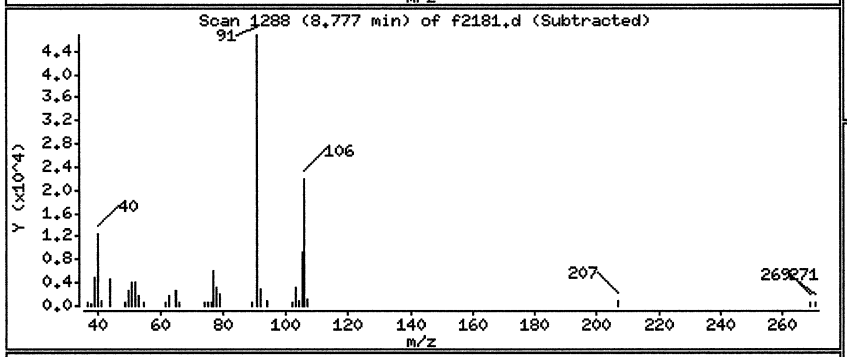
Column phase: DB-624-30M

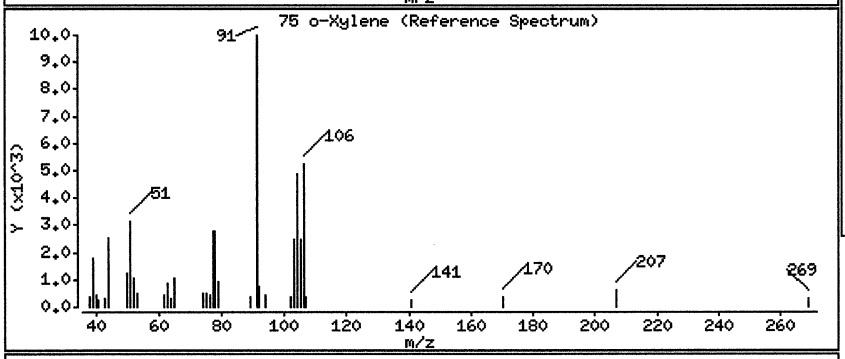
Column diameter: 0.53

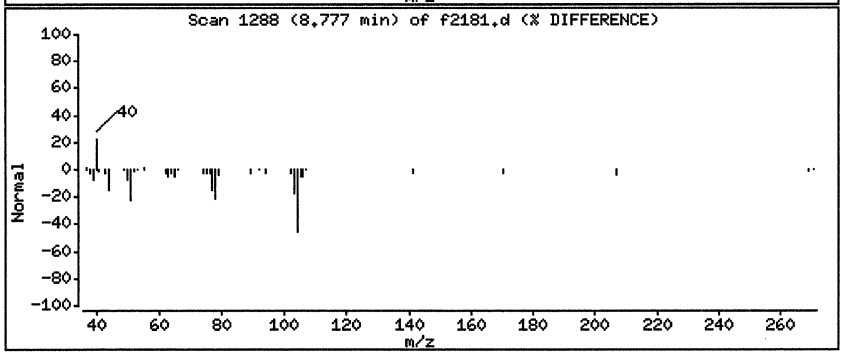
75 o-Xylene

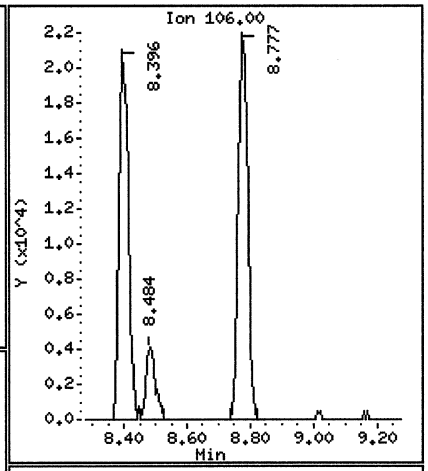
Concentration: 6.44 ug/L

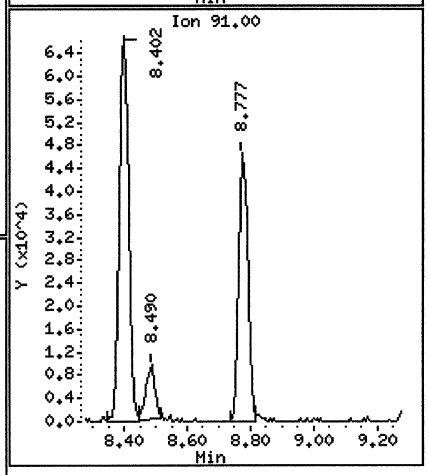












Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

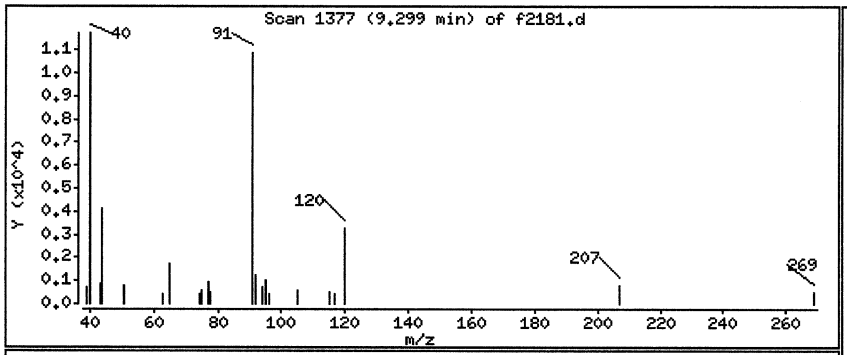
Operator: KCB

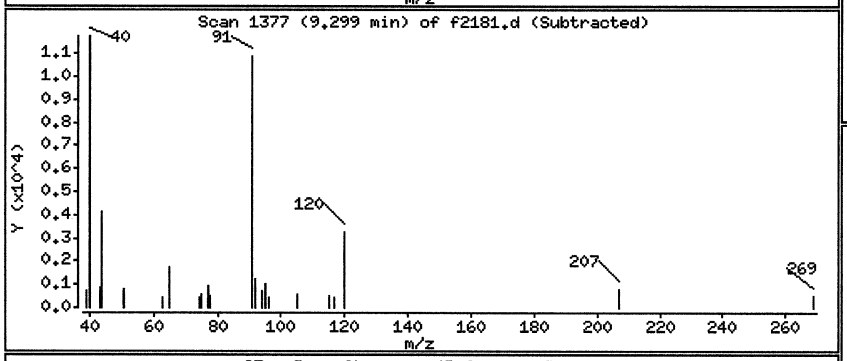
Column phase: DB-624-30M

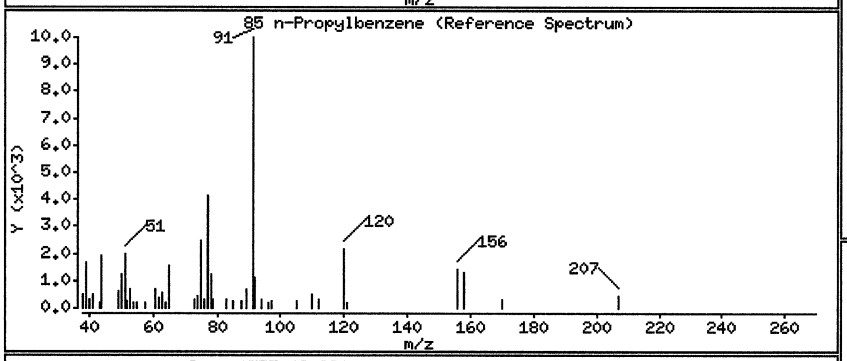
Column diameter: 0.53

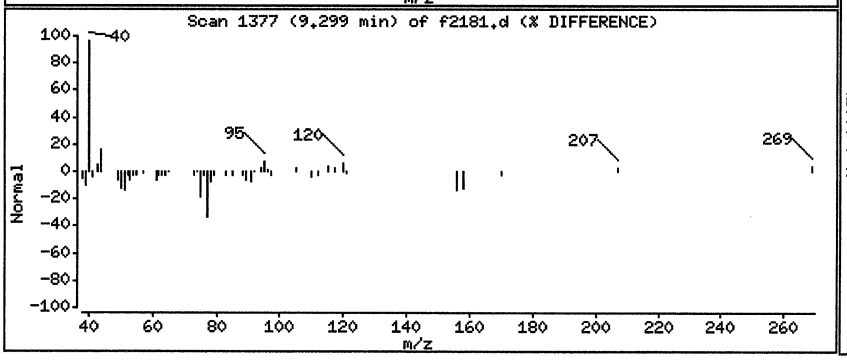
85 n-Propylbenzene

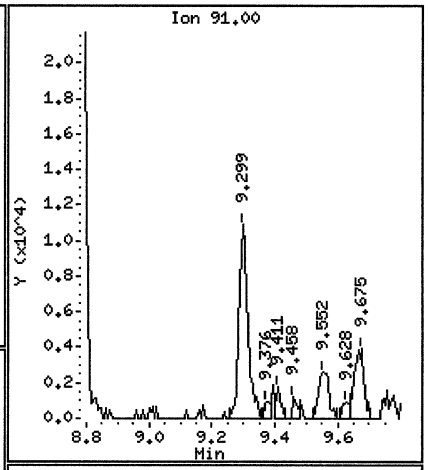
Concentration: 1.09 ug/L

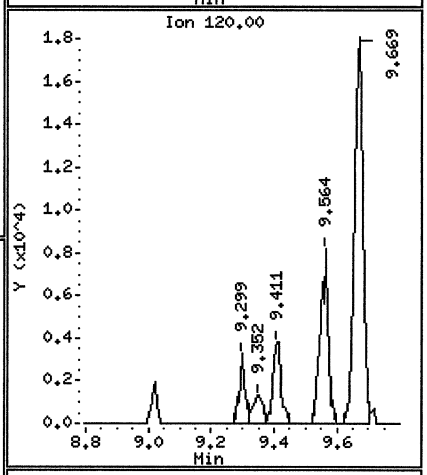


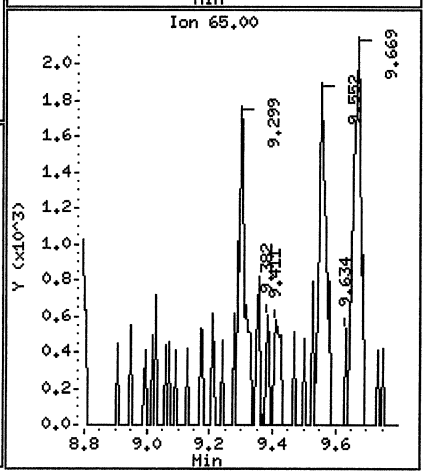












Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

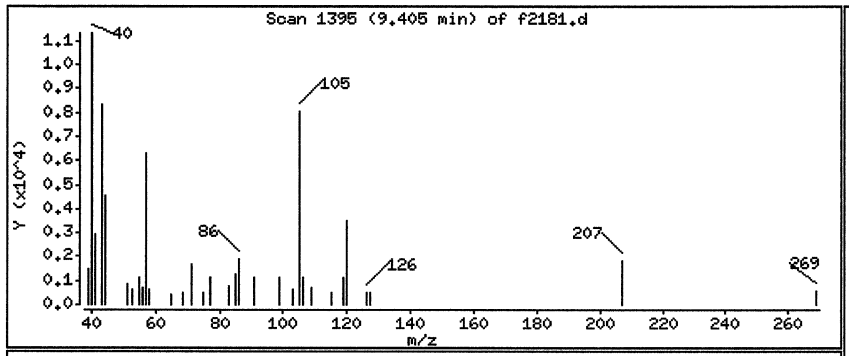
Operator: KCB

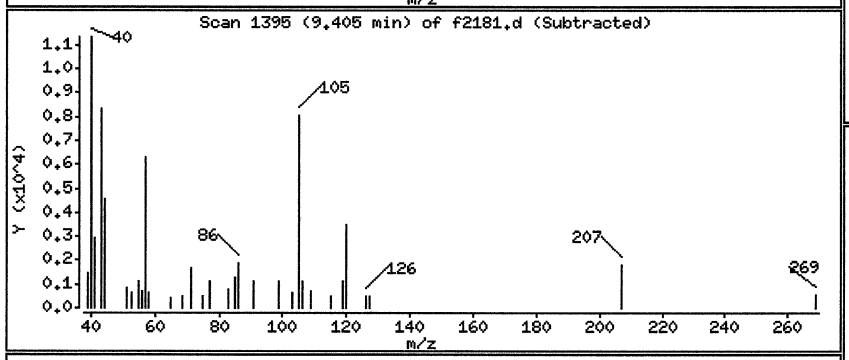
Column phase: DB-624-30M

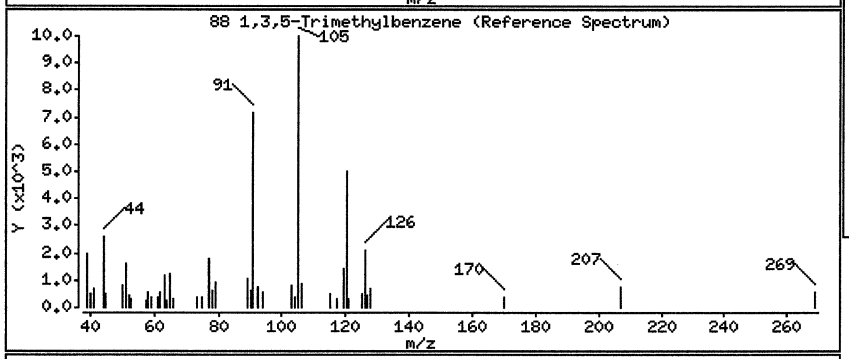
Column diameter: 0.53

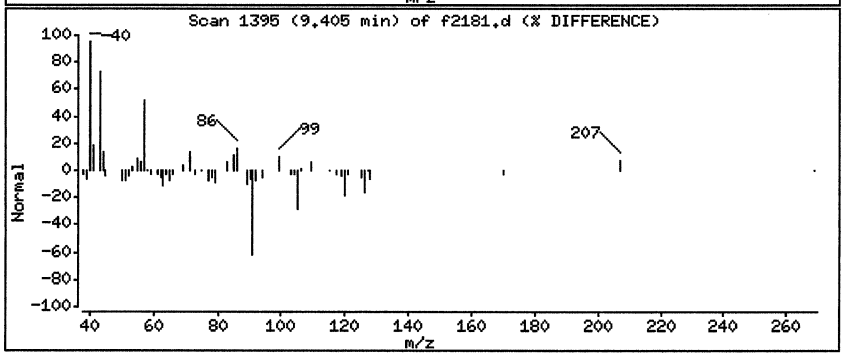
88 1,3,5-Trimethylbenzene

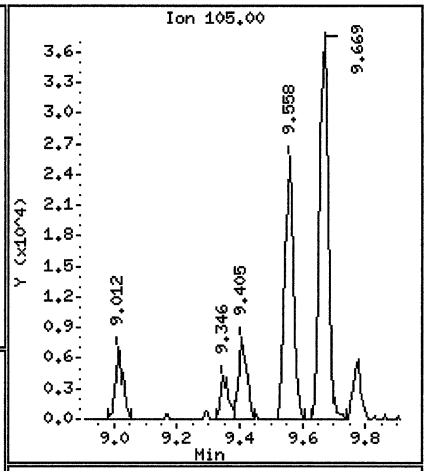
Concentration: 1.11 ug/L

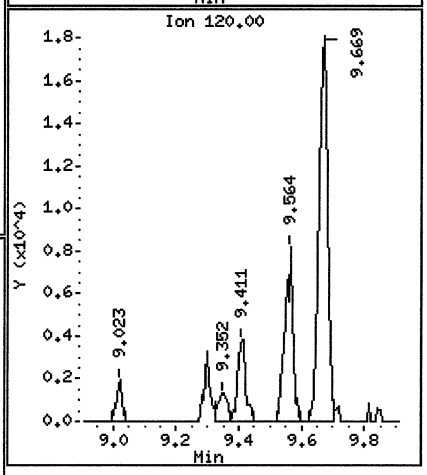












Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

Client ID: 86-CEF43-2N-Q2-05

Instrument: msv5.i

Sample Info: 20506180501*86-CEF43-2N-Q2-05

Purge Volume: 5.0

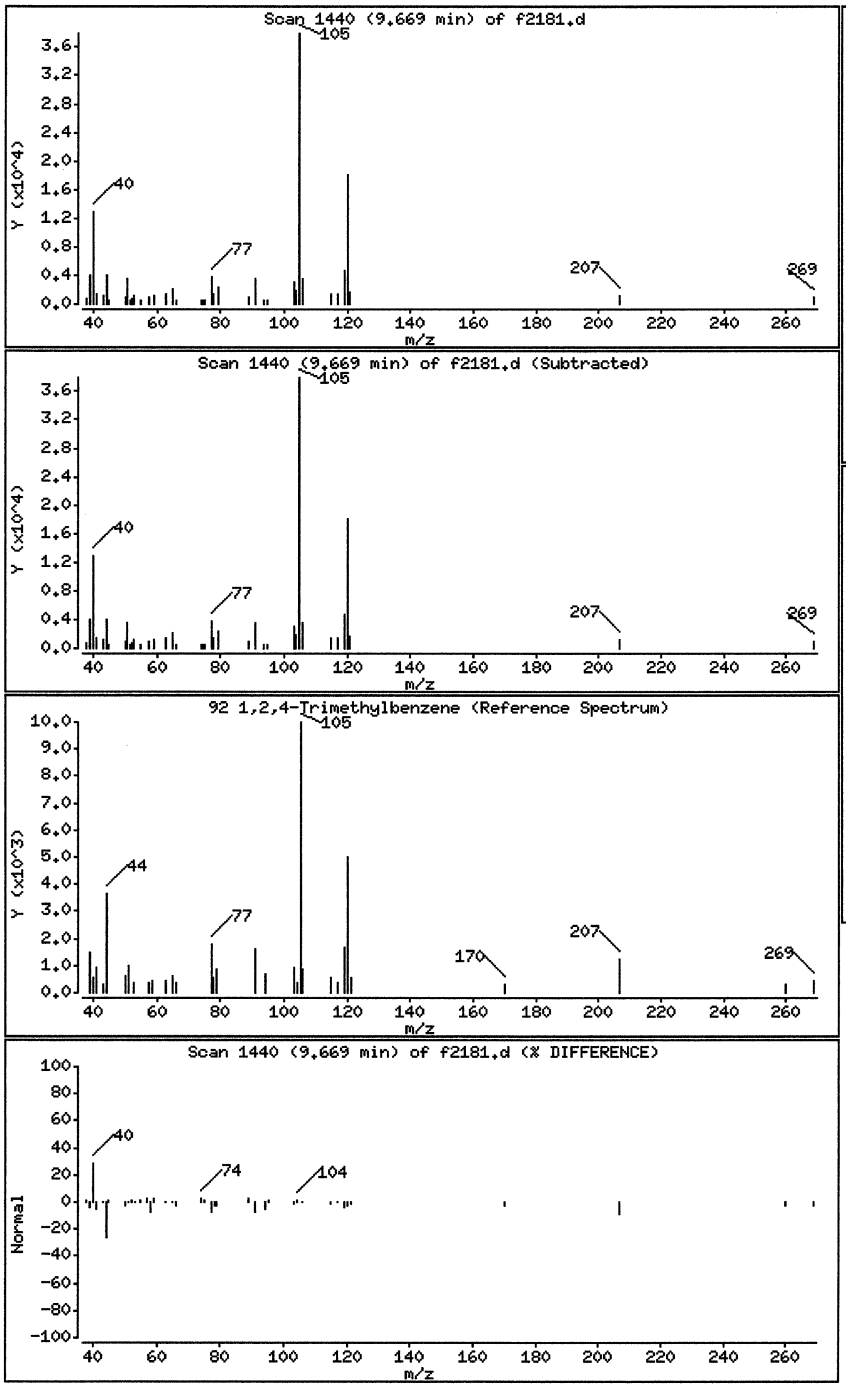
Operator: KCB

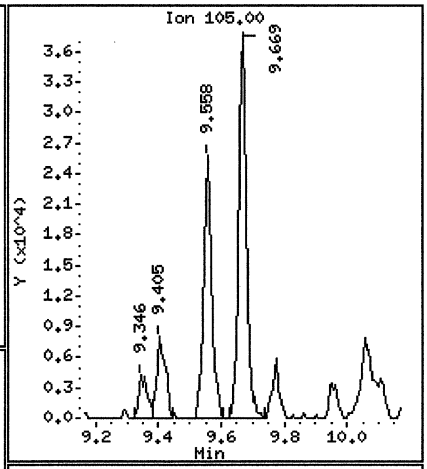
Column phase: DB-624-30M

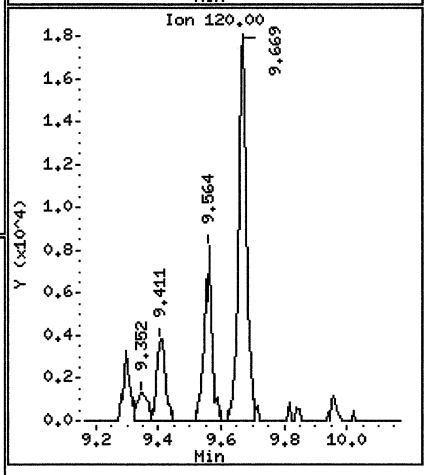
Column diameter: 0.53

92 1,2,4-Trimethylbenzene

Concentration: 4.99 ug/L







Data File: /var/chem/msv5.i/2050620.s.b/f2181.d

Date : 20-JUN-2005 10:31

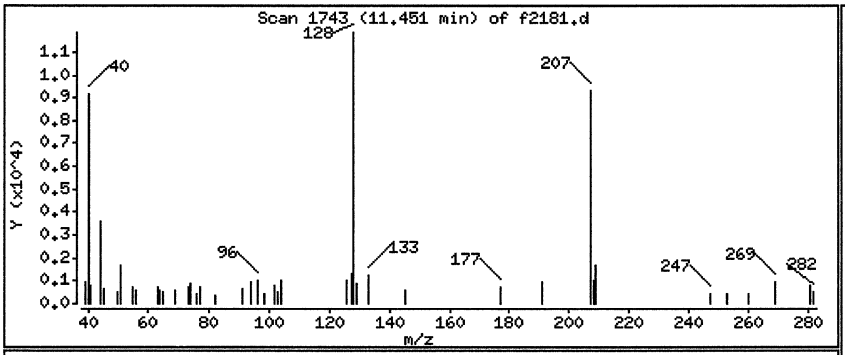
Client ID: 86-CEF43-2N-Q2-05 Instrument: msv5.i

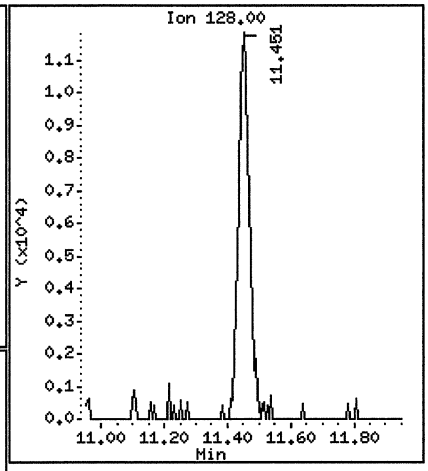
Sample Info: 20506180501*86-CEF43-2N-Q2-05

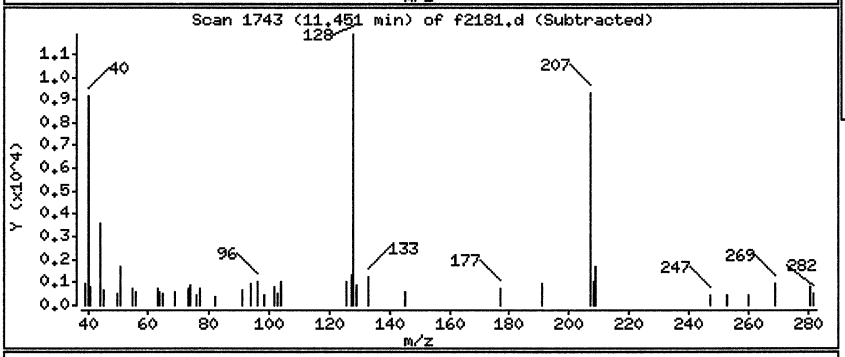
Purge Volume: 5.0 Operator: KCB

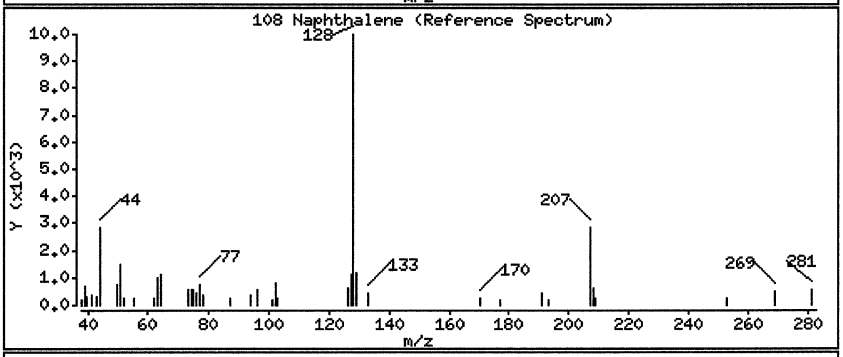
Column phase: DB-624-30M Column diameter: 0.53

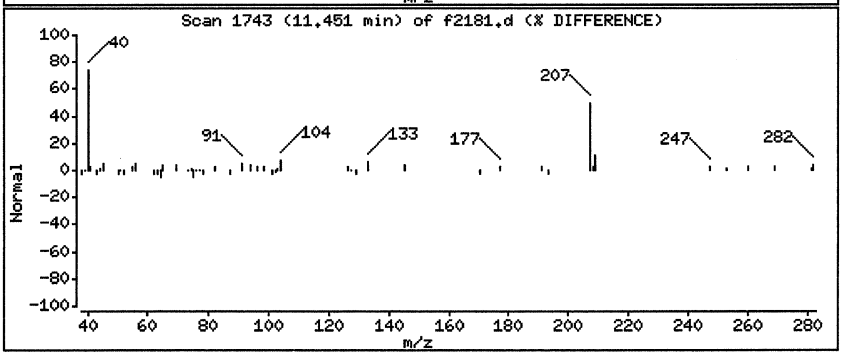
108 Naphthalene Concentration: 2.31 ug/L







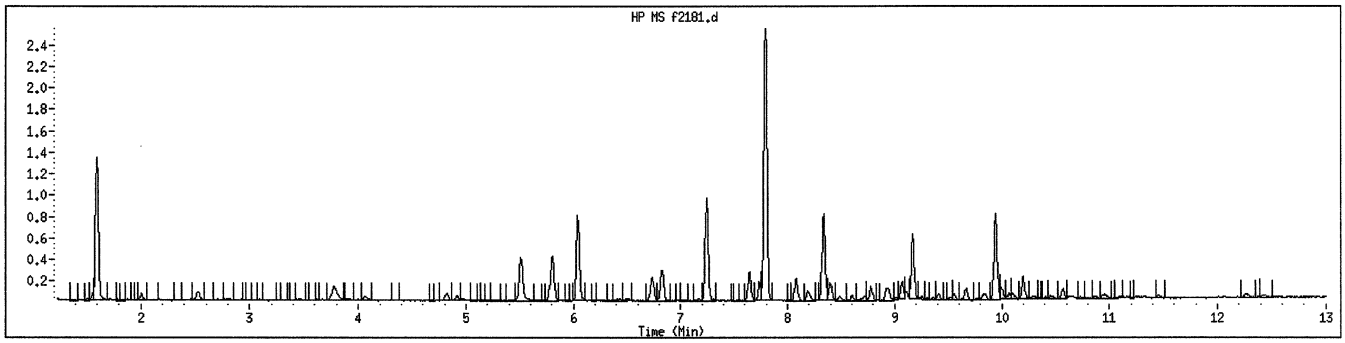




Data file : /var/chem/msv5.i/2050620.s.b/f2181.d
Report Date: 06/20/2005 12:26

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180501	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 10:31	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180501*86-CEF43-2N-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-6N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170502

Level: (low/med) LOW Lab File ID: 2050620/F2185

% Moisture: not dec. Date Collected: 06/16/05 Time: 1145

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1210

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-6N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170502

Level: (low/med) LOW Lab File ID: 2050620/F2185

% Moisture: not dec. Date Collected: 06/16/05 Time: 1145

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1210

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2185.d
Lab Smp Id: 20506180502 Client Smp ID: 86-CEF43-6N-Q2-05
Inj Date : 20-JUN-2005 12:10
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180502*86-CEF43-6N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
13 Acetone	43	3.451	3.448	(0.571)	4600	3.89880	3.90	
$ 38 Dibromofluoromethane	111	5.512	5.519	(0.913)	195717	53.7412	53.7	2696
$ 45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.962)	107295	55.6384	55.6	
* 47 FLUOROBENZENE	96	6.039	6.048	(1.000)	742577	50.0000		
$ 60 Toluene-d8	98	7.245	7.245	(0.869)	723661	54.5437	54.5	
* 70 CHLOROBENZENE-d5	82	8.334	8.343	(1.000)	297375	50.0000		
$ 80 Bromofluorobenzene	174	9.172	9.172	(1.101)	233535	55.8627	55.9	
* 99 1,4-DICHLOROBENZENE-D4	152	9.946	9.944	(1.000)	271293	50.0000		
108 Naphthalene	128	11.459	11.449	(1.152)	3007	0.24899	0.249	

Data File: /var/chem/msv5.i/2050620.s.b/f2185.d

Date : 20-JUN-2005 12:10

Client ID: 86-CEF43-6N-Q2-05

Instrument: msv5.i

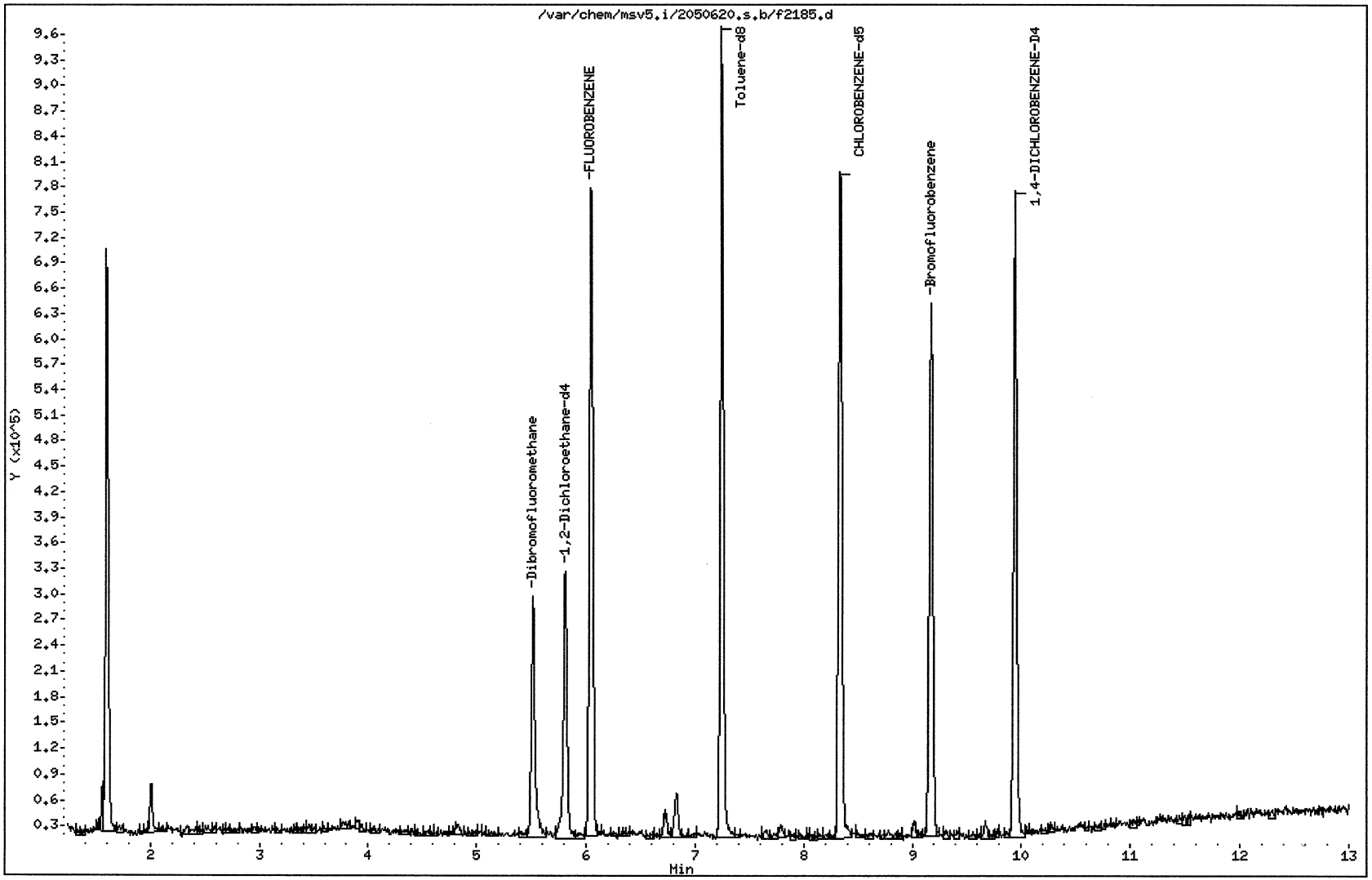
Sample Info: 20506180502*86-CEF43-6N-Q2-05

Purge Volume: 5.0

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv5.i/2050620.s.b/f2185.d

Date : 20-JUN-2005 12:10

Client ID: 86-CEF43-6N-Q2-05

Instrument: msv5.i

Sample Info: 20506180502*86-CEF43-6N-Q2-05

Purge Volume: 5.0

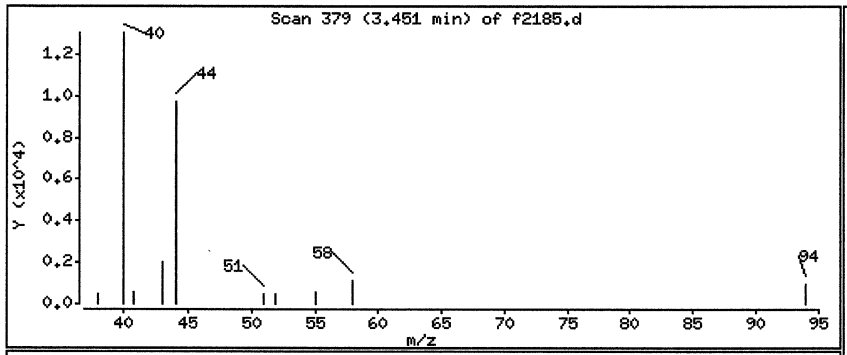
Operator: KCB

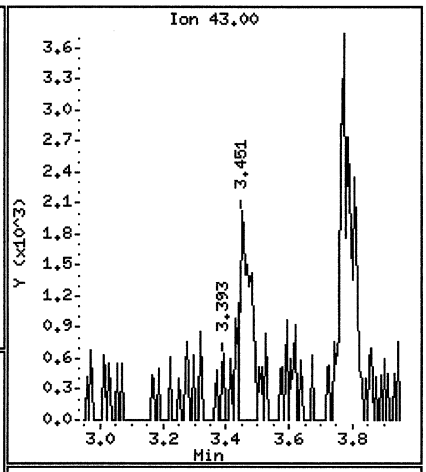
Column phase: DB-624-30M

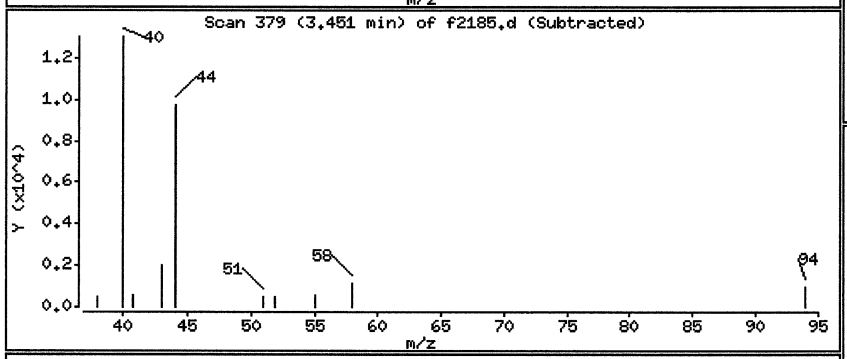
Column diameter: 0.53

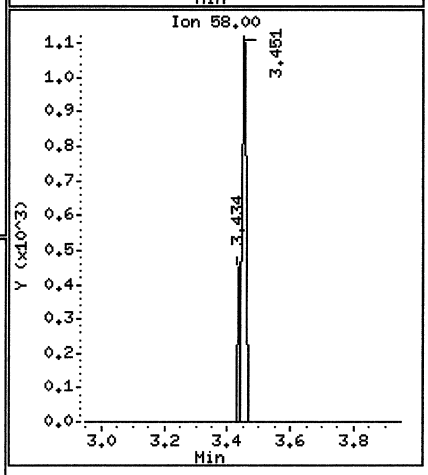
13 Acetone

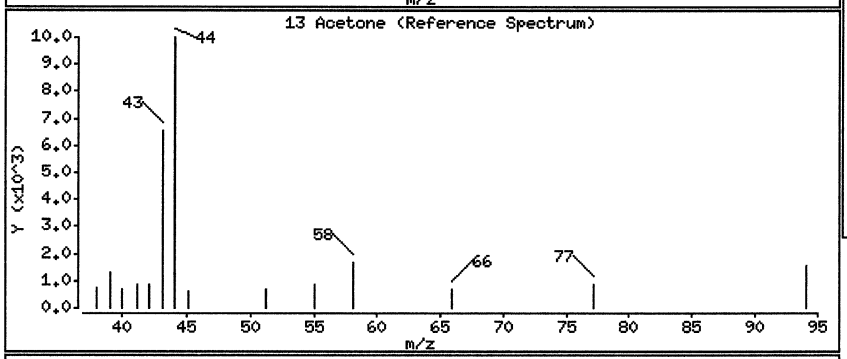
Concentration: 3.90 ug/L

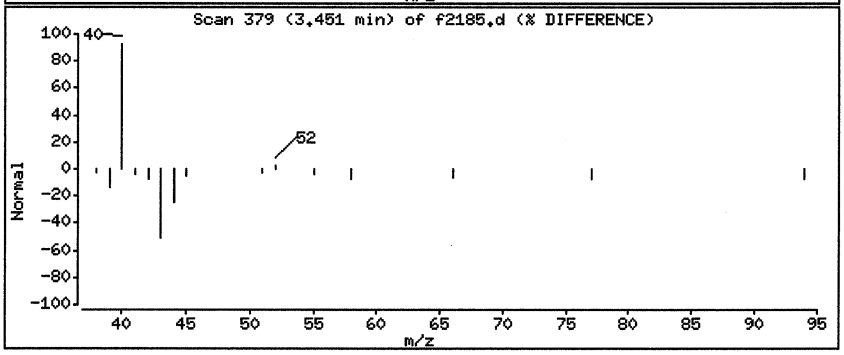












Data File: /var/chem/msv5.i/2050620.s.b/f2185.d

Date : 20-JUN-2005 12:10

Client ID: 86-CEF43-6N-Q2-05

Instrument: msv5.i

Sample Info: 20506180502*86-CEF43-6N-Q2-05

Purge Volume: 5.0

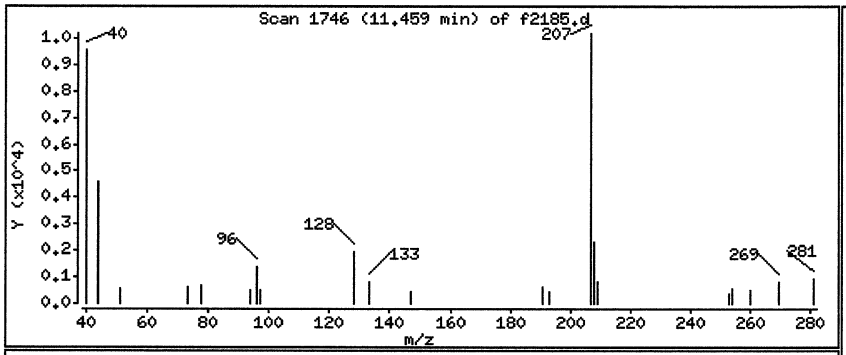
Operator: KCB

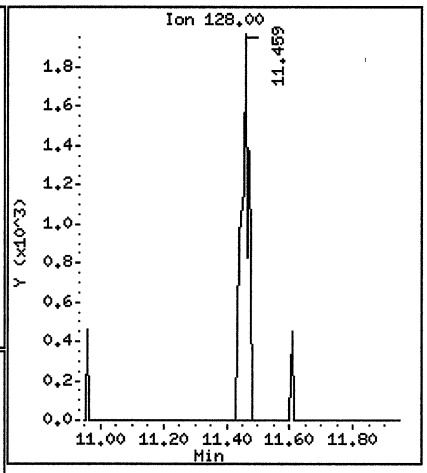
Column phase: DB-624-30M

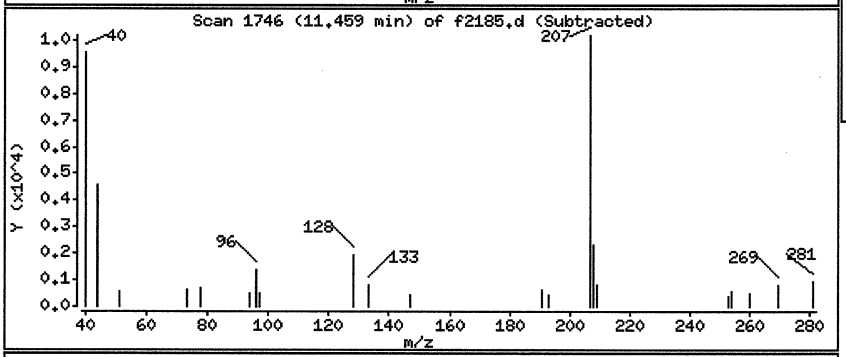
Column diameter: 0.53

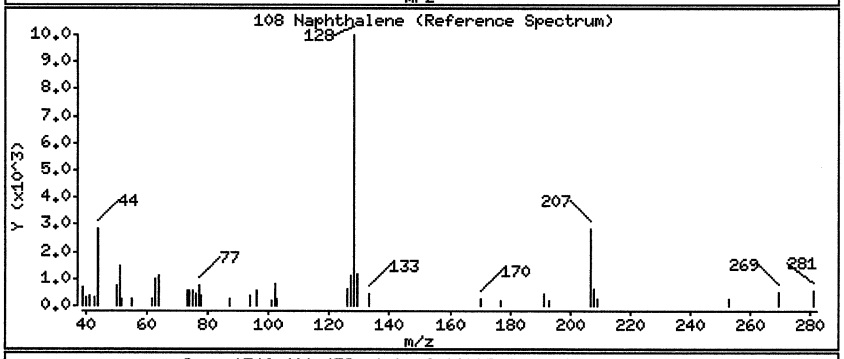
108 Naphthalene

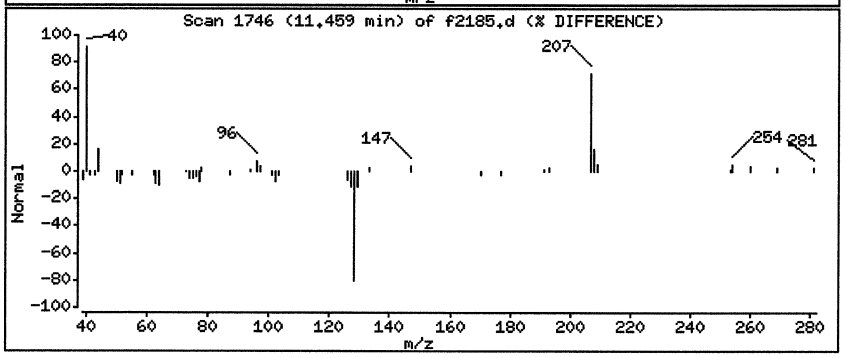
Concentration: 0.249 ug/L







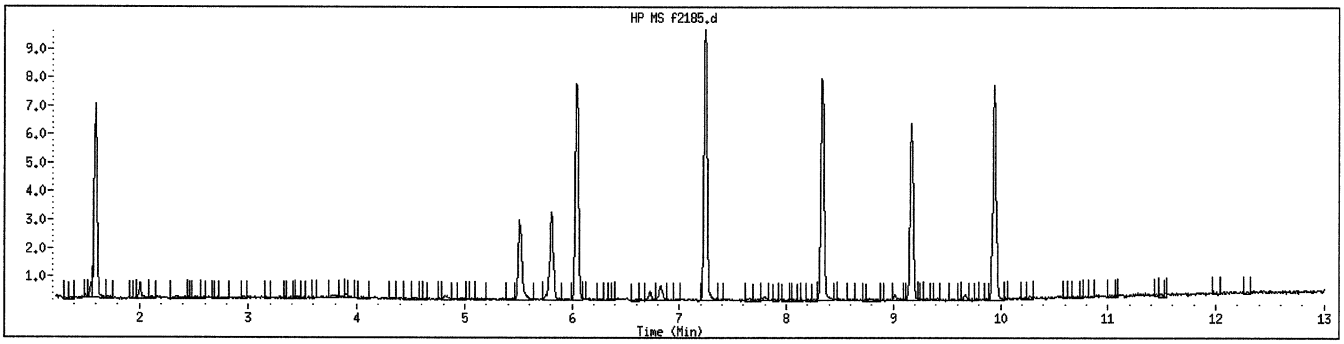




Data file : /var/chem/msv5.i/2050620.s.b/f2185.d
Report Date: 06/20/2005 12:31

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180502	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 12:10	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180502*86-CEF43-6N-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-7N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170503

Level: (low/med) LOW Lab File ID: 2050620/F2186

% Moisture: not dec. Date Collected: 06/16/05 Time: 1320

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1234

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-7N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL

Lab Sample ID: 20506170503

Level: (low/med) LOW

Lab File ID: 2050620/F2186

% Moisture: not dec.

Date Collected: 06/16/05 Time: 1320

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/17/05

Instrument ID: MSV5

Date Analyzed: 06/20/05 Time: 1234

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2186.d
Lab Smp Id: 20506170503 Client Smp ID: 86-CEF43-7N-Q2-05
Inj Date : 20-JUN-2005 12:34
Operator : KCB Inst ID: msv5.i
Smp Info : 20506170503*86-CEF43-7N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.517	5.519	(0.913)	194317	55.2083	55.2	2104
$ 45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.961)	106239	57.0025	57.0	
* 47 FLUOROBENZENE	96	6.044	6.048	(1.000)	717674	50.0000		
$ 60 Toluene-d8	98	7.244	7.245	(0.869)	696803	52.9673	53.0	
* 70 CHLOROBENZENE-d5	82	8.333	8.343	(1.000)	294860	50.0000		
$ 80 Bromofluorobenzene	174	9.171	9.172	(1.101)	226512	54.6449	54.6	
* 99 1,4-DICHLOROBENZENE-D4	152	9.944	9.944	(1.000)	253429	50.0000		

000037

Data File: /var/chem/msv5.i/2050620.s.b/f2186.d

Page 1

Date : 20-JUN-2005 12:34

Client ID: 86-CEF43-7N-Q2-05

Instrument: msv5.i

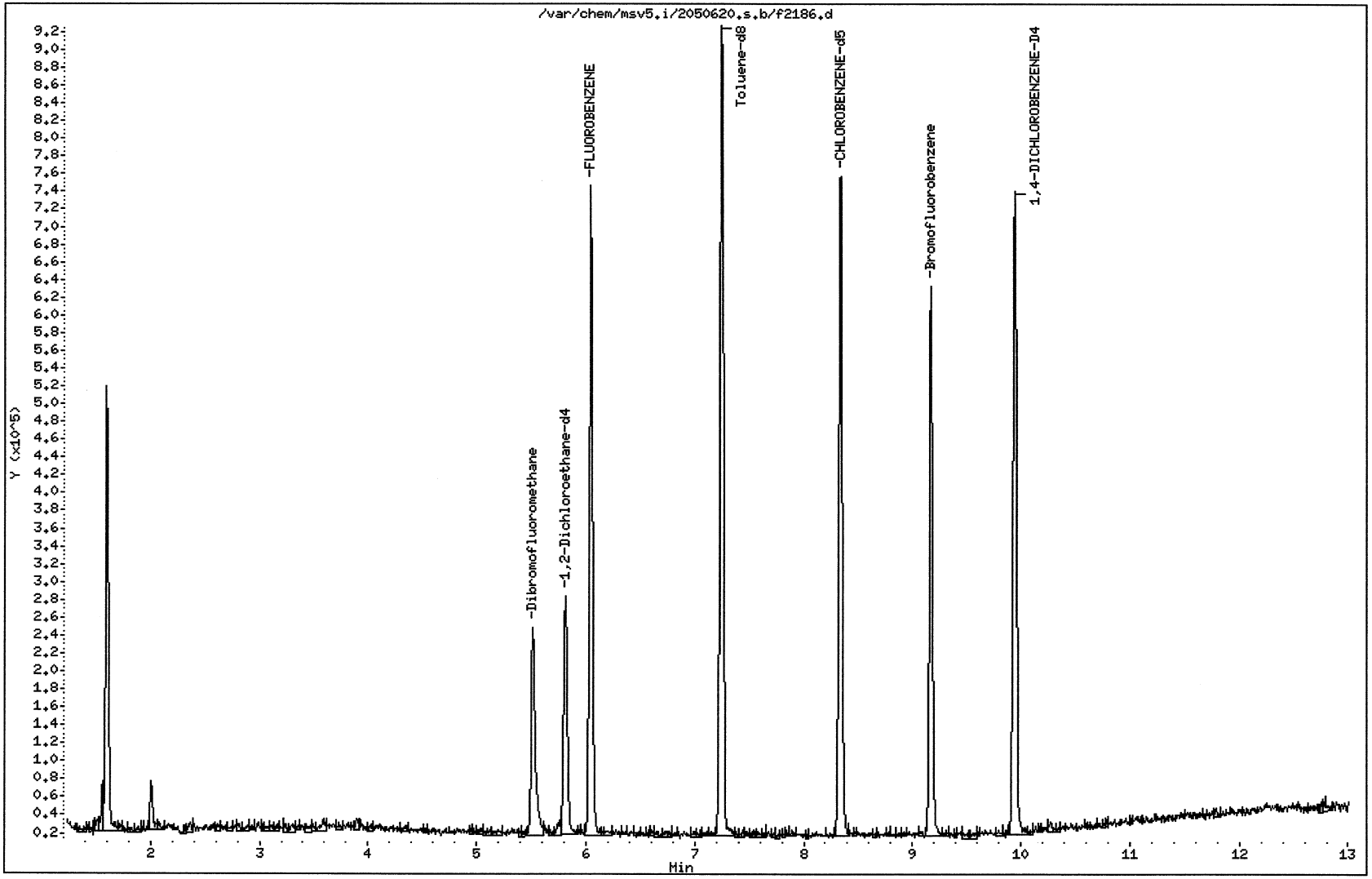
Sample Info: 20506170503*86-CEF43-7N-Q2-05

Purge Volume: 5.0

Operator: KCB

Column phase: DB-624-30M

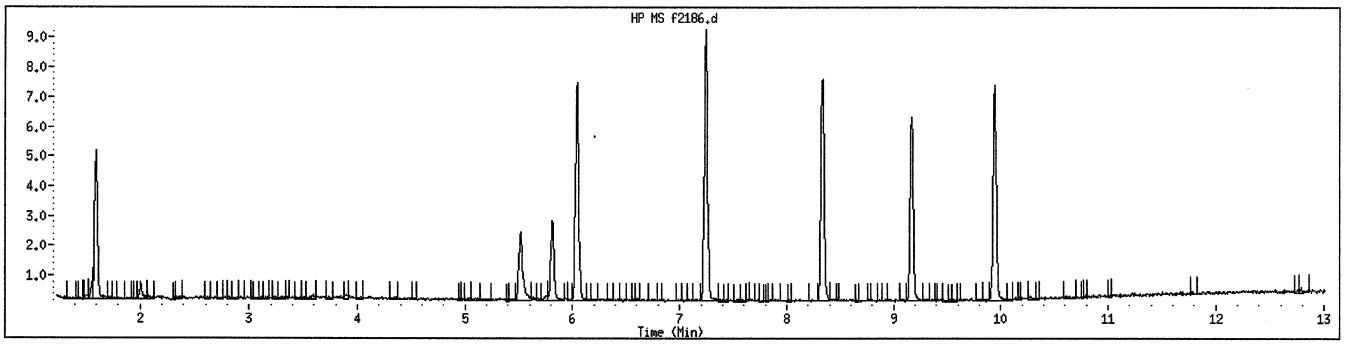
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2186.d
Report Date: 06/20/2005 13:52

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506170503	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 12:34	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506170503*86-CEF43-7N-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-9N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170504

Level: (low/med) LOW Lab File ID: 2050620/F2187

% Moisture: not dec. Date Collected: 06/16/05 Time: 1425

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1259

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	7.87		0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	19.4		0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-9N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170504

Level: (low/med) LOW Lab File ID: 2050620/F2187

% Moisture: not dec. Date Collected: 06/16/05 Time: 1425

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1259

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2187.d
Lab Smp Id: 20506180504 Client Smp ID: 86-CEF43-9N-Q2-05
Inj Date : 20-JUN-2005 12:59
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180504*86-CEF43-9N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

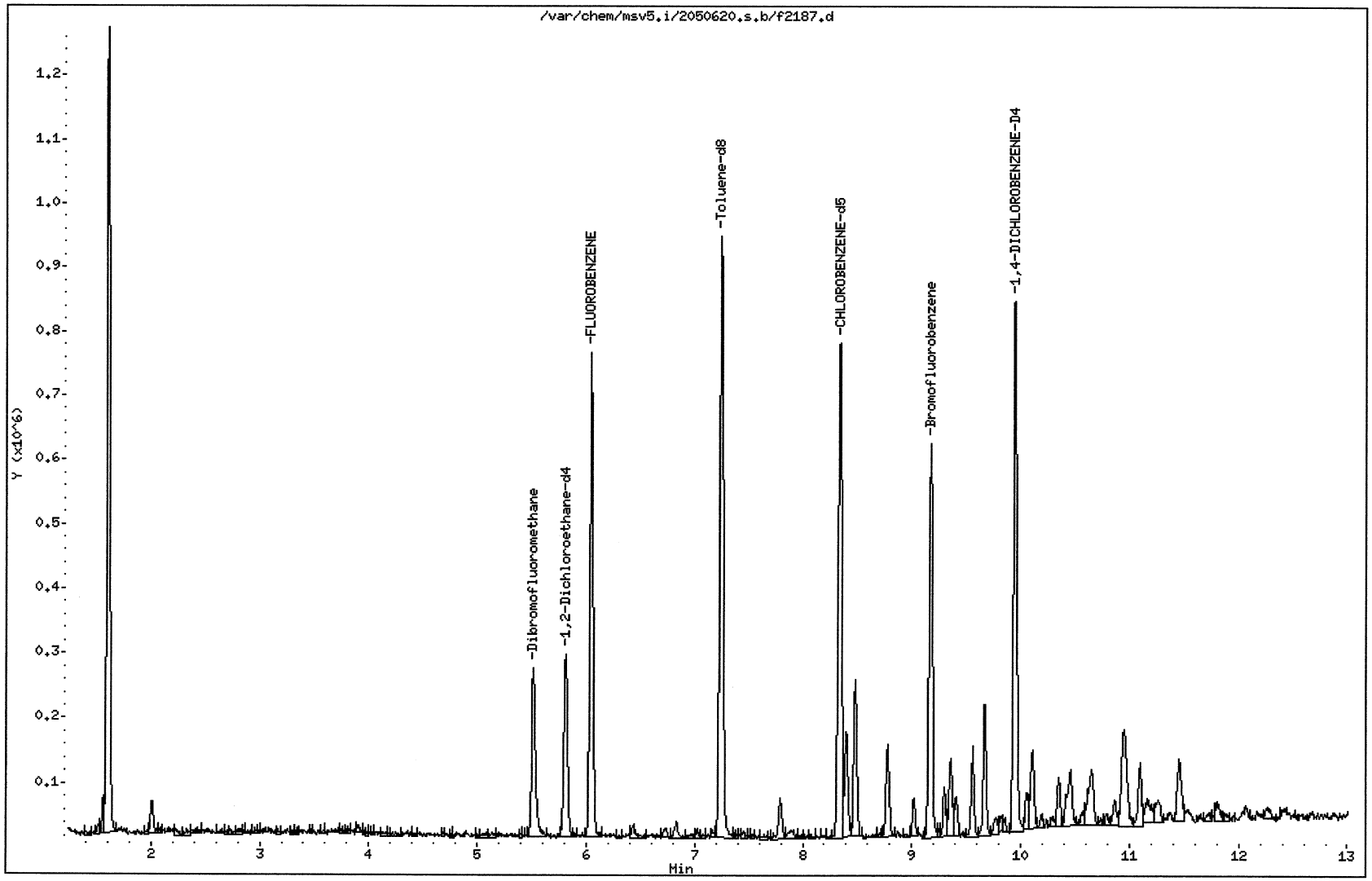
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.517	5.519	(0.913)	205630	56.0024	56.0	2221
$ 45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.961)	101899	52.4091	52.4	
* 47 FLUOROBENZENE	96	6.044	6.048	(1.000)	748687	50.0000		
$ 60 Toluene-d8	98	7.244	7.245	(0.869)	711456	53.1092	53.1	
* 70 CHLOROBENZENE-d5	82	8.340	8.343	(1.000)	300256	50.0000		
72 Ethylbenzene +	106	8.399	8.402	(1.007)	44890	7.87374	7.87	
74 p,m-Xylene	106	8.487	8.485	(1.018)	83668	11.9987	12.0	
75 o-Xylene	106	8.780	8.778	(1.053)	49395	7.37352	7.37	
78 Isopropylbenzene	105	9.020	9.019	(1.082)	51236	3.09794	3.10	
$ 80 Bromofluorobenzene	174	9.167	9.172	(1.099)	228057	54.0289	54.0	
85 n-Propylbenzene	91	9.302	9.296	(0.936)	84375	4.15458	4.15	
88 1,3,5-Trimethylbenzene	105	9.402	9.408	(0.946)	38683	2.93175	2.93	
92 1,2,4-Trimethylbenzene	105	9.672	9.667	(0.973)	142331	10.5507	10.6	
96 sec-Butylbenzene	105	9.777	9.773	(0.983)	26262	1.44233	1.44	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
97 p-Isopropyltoluene	119	9.860	9.856	(0.992)	17068	1.18387	1.18	
* 99 1,4-DICHLOROBENZENE-D4	152	9.942	9.944	(1.000)	259052	50.0000		
M 101 TOTAL XYLENE	106				133063	19.3722	19.4	
108 Naphthalene	128	11.455	11.449	(1.152)	99826	8.65666	8.66	

Data File: /var/chem/msv5.i/2050620.s.b/f2187.d
Date : 20-JUN-2005 12:59
Client ID: 86-CEF43-9N-Q2-05
Sample Info: 20506180504*86-CEF43-9N-Q2-05
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i
Operator: KCB
Column diameter: 0.53



000043

Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

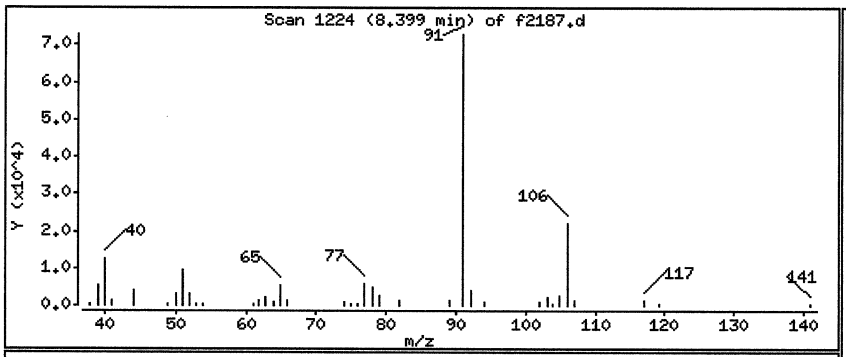
Operator: KCB

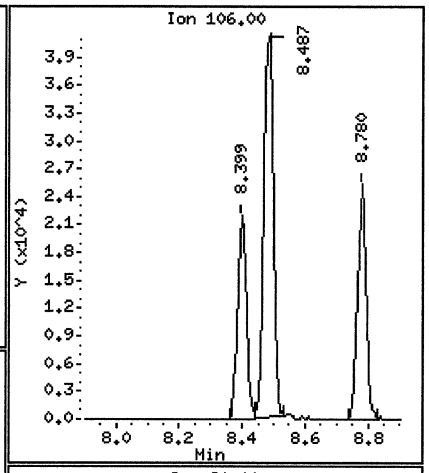
Column phase: DB-624-30M

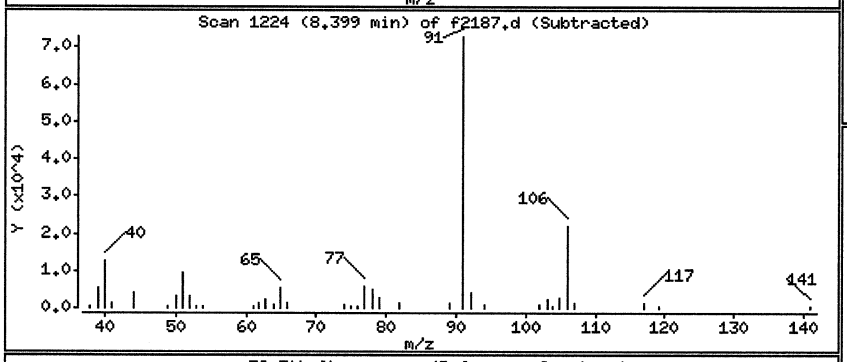
Column diameter: 0.53

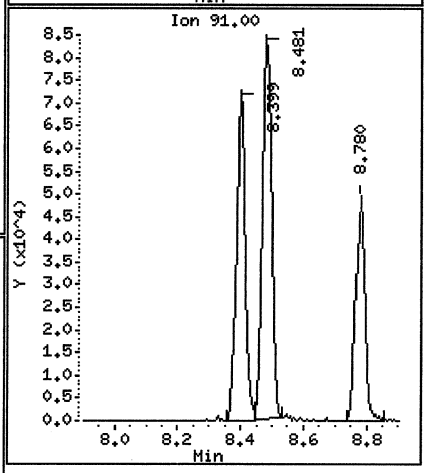
72 Ethylbenzene +

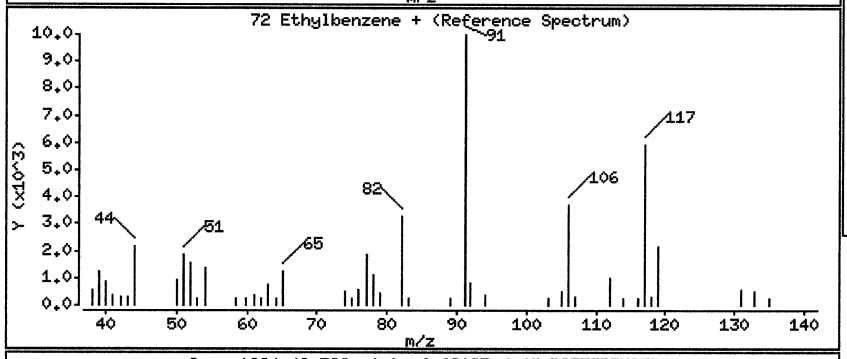
Concentration: 7.87 ug/L

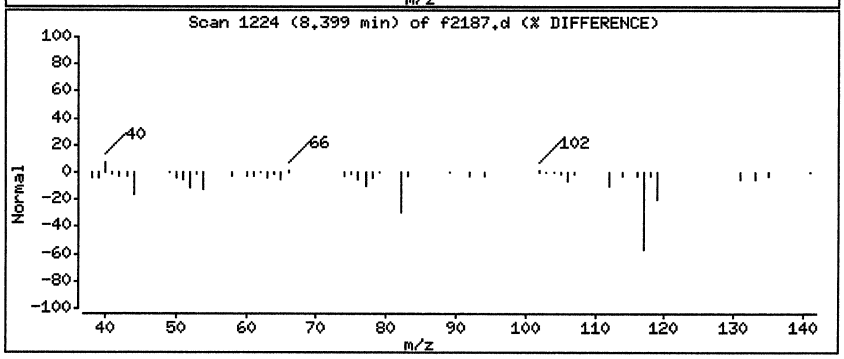












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

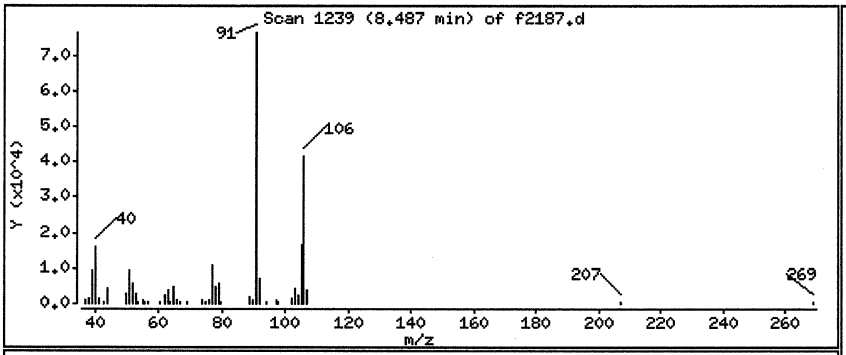
Operator: KCB

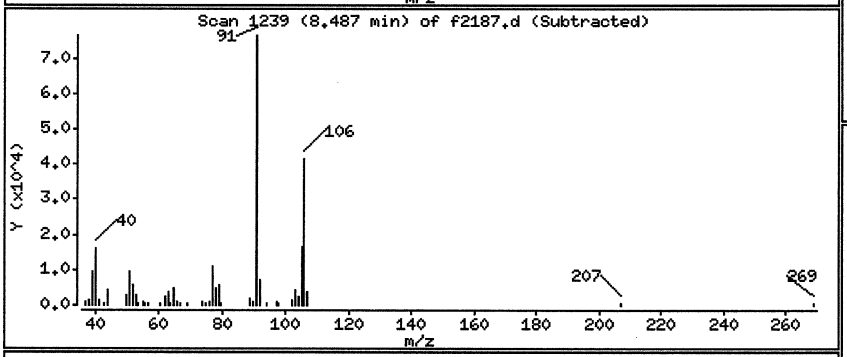
Column phase: DB-624-30M

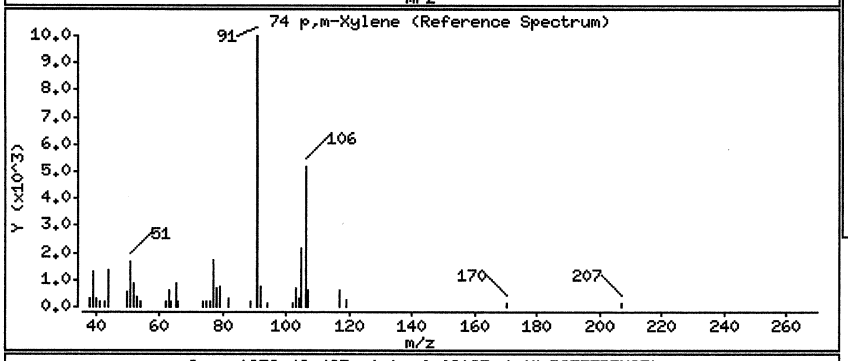
Column diameter: 0.53

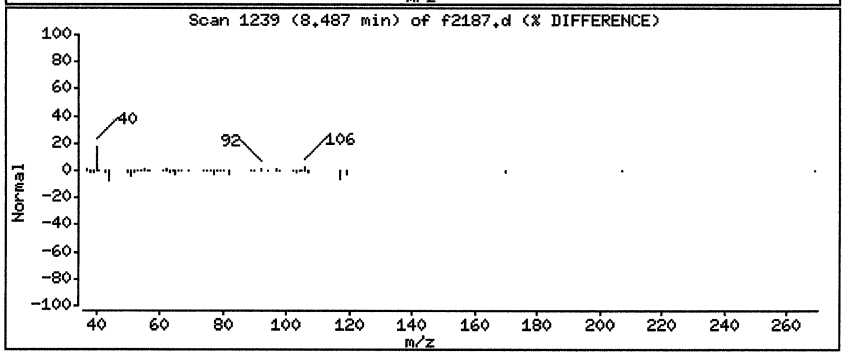
74 p,m-Xylene

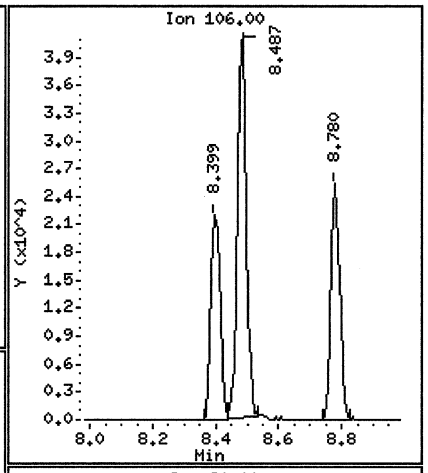
Concentration: 12.0 ug/L

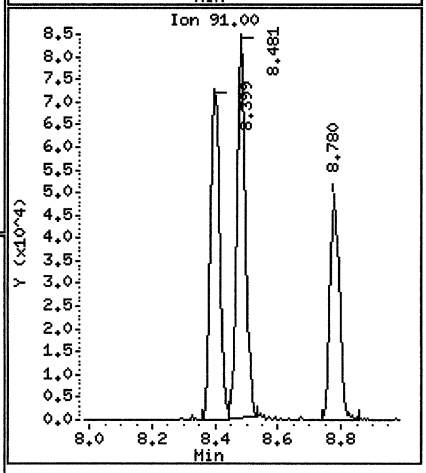












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

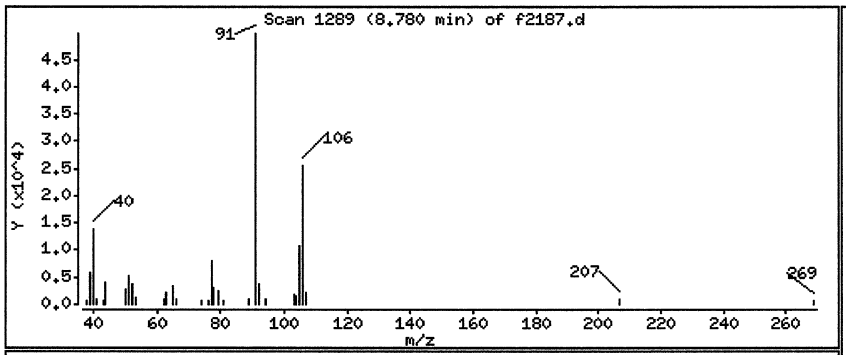
Operator: KCB

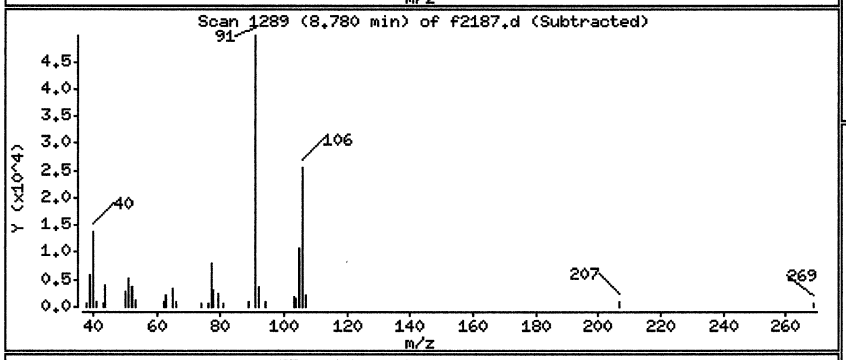
Column phase: DB-624-30M

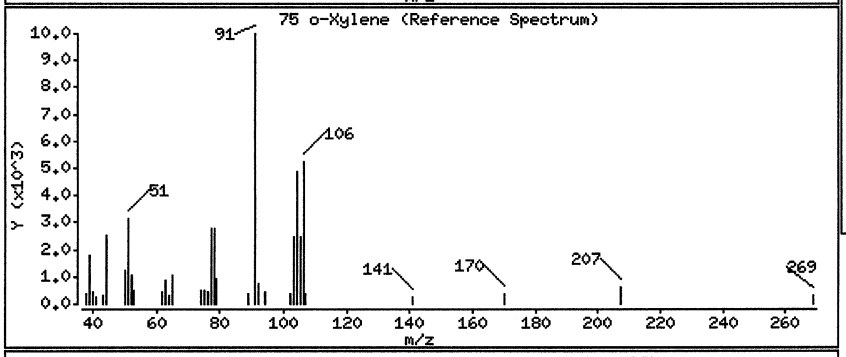
Column diameter: 0.53

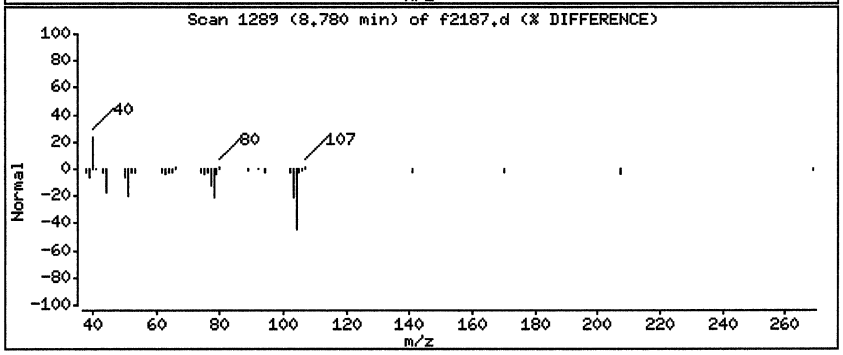
75 o-Xylene

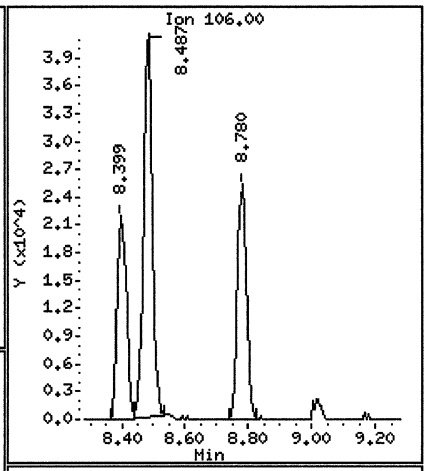
Concentration: 7.37 ug/L

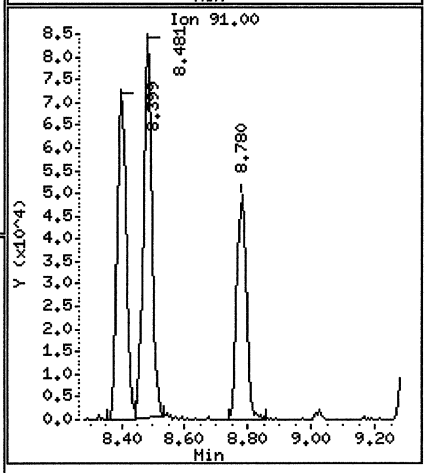












Data File: /var/chem/msv5.i/20506020.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

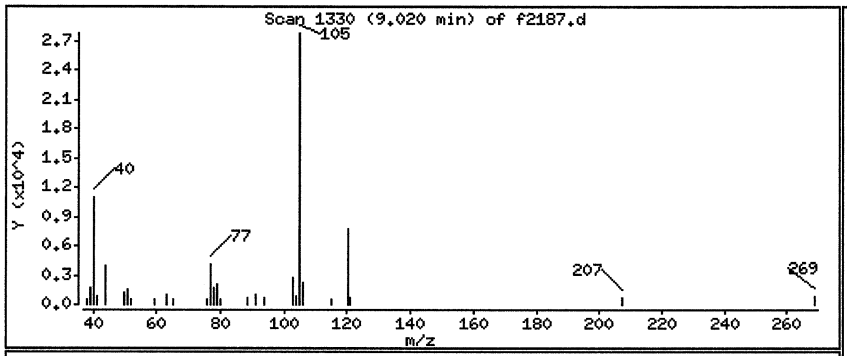
Operator: KCB

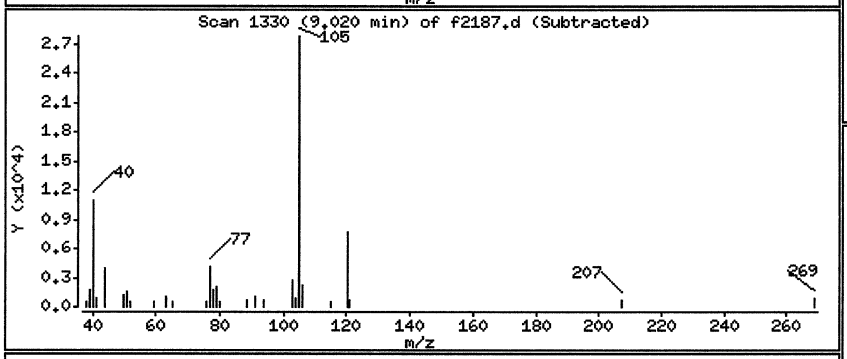
Column phase: DB-624-30M

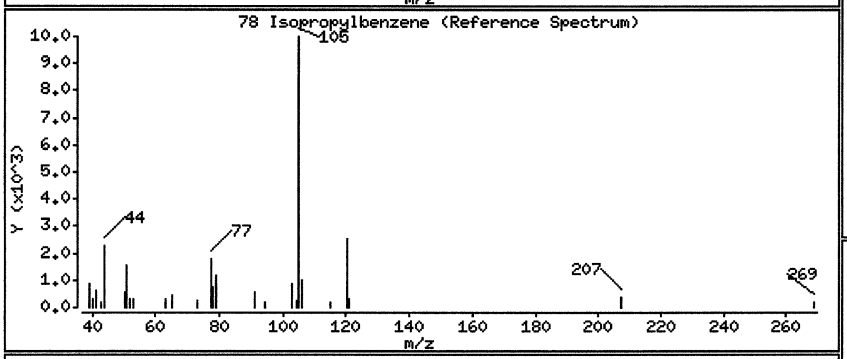
Column diameter: 0.53

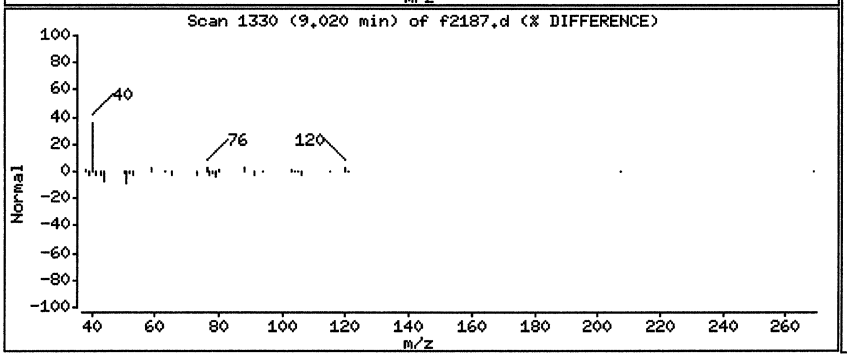
78 Isopropylbenzene

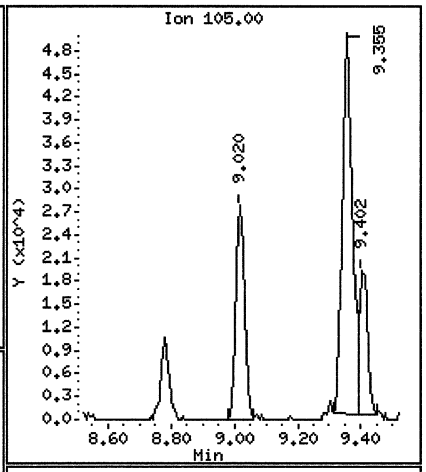
Concentration: 3.10 ug/L

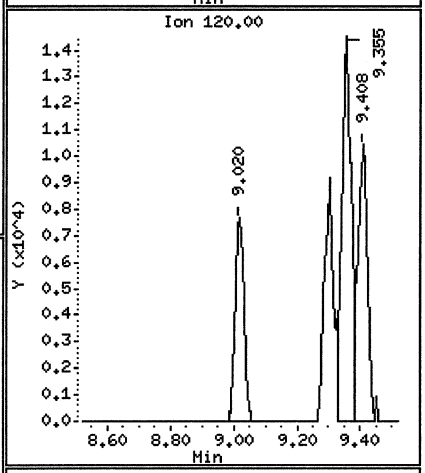


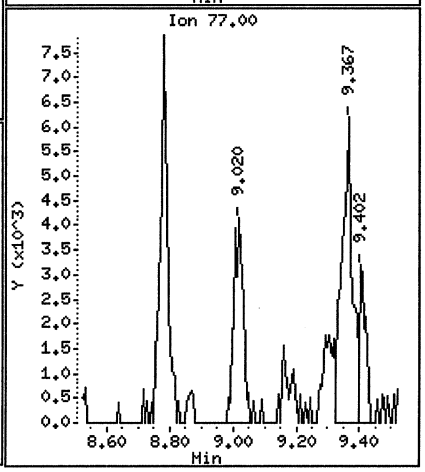












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

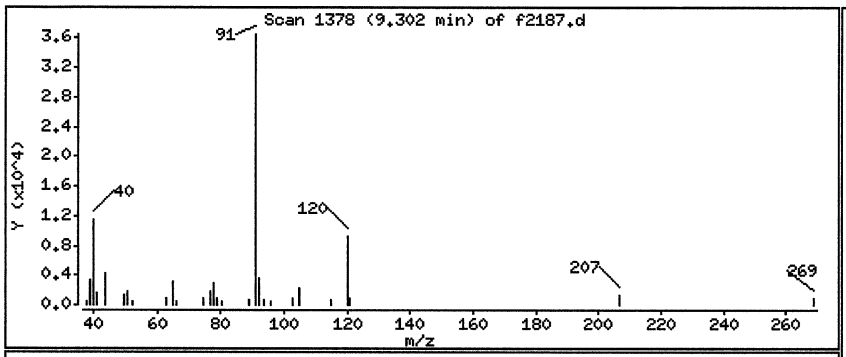
Operator: KCB

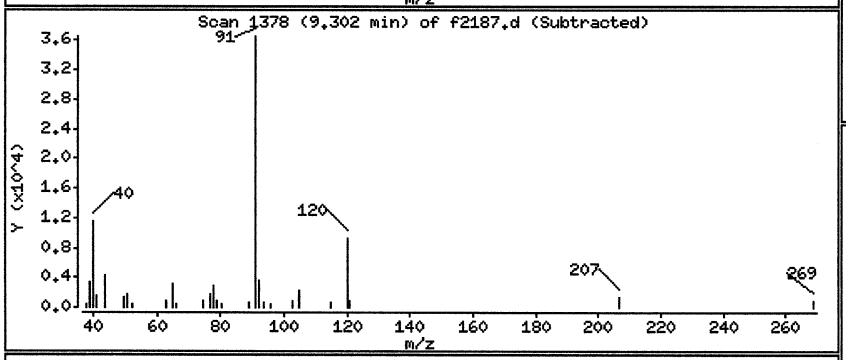
Column phase: DB-624-30M

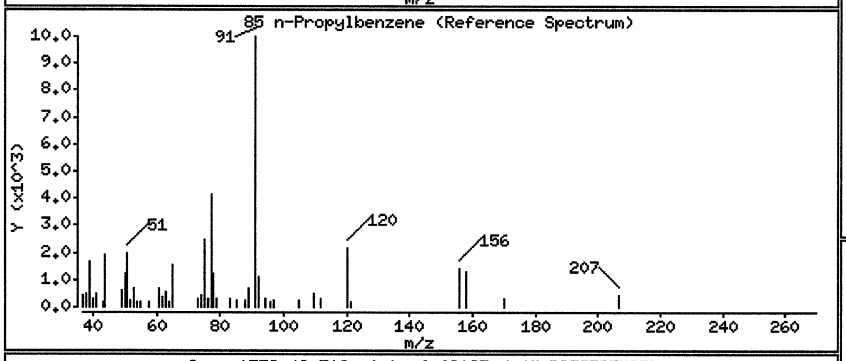
Column diameter: 0.53

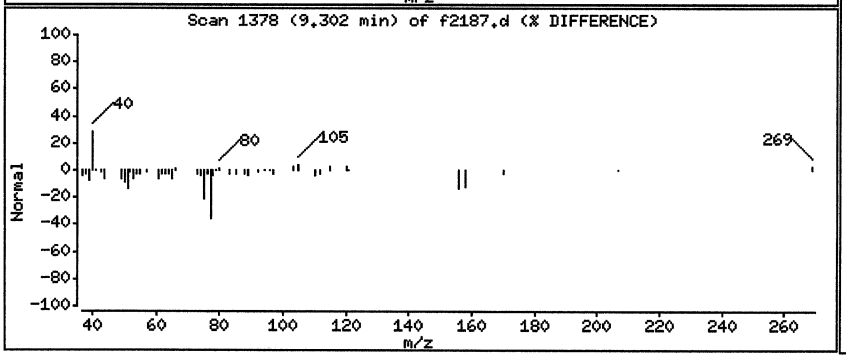
85 n-Propylbenzene

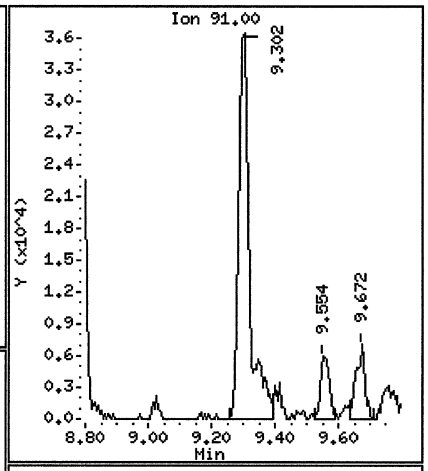
Concentration: 4.15 ug/L

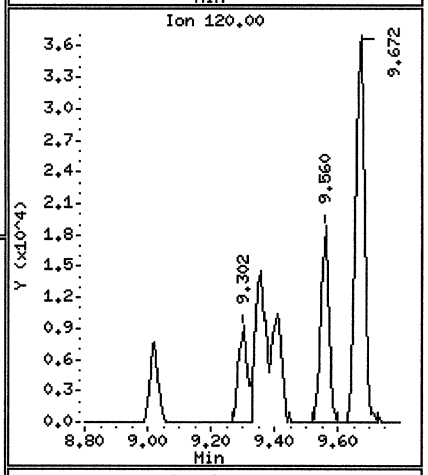


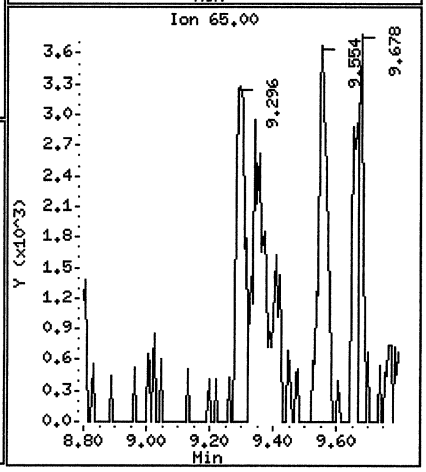












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

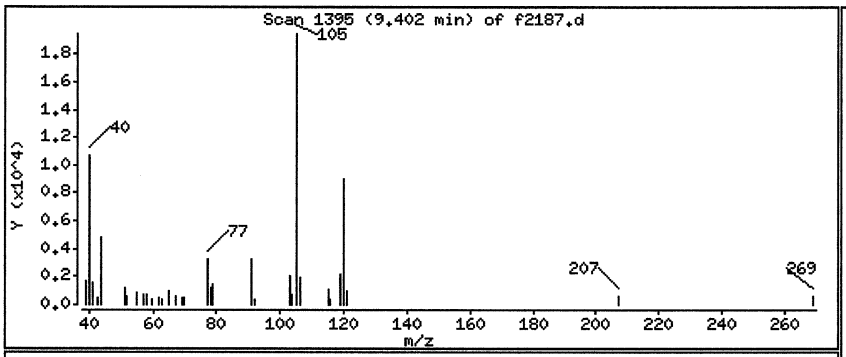
Operator: KCB

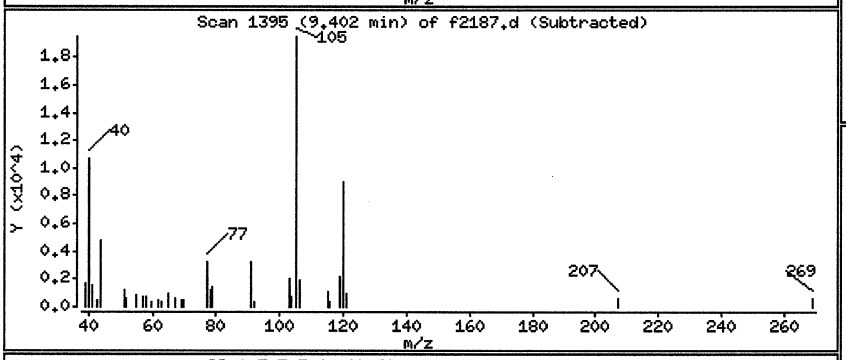
Column phase: DB-624-30M

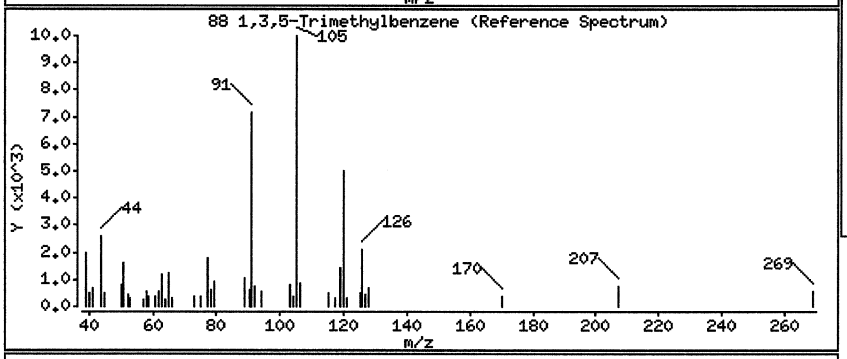
Column diameter: 0.53

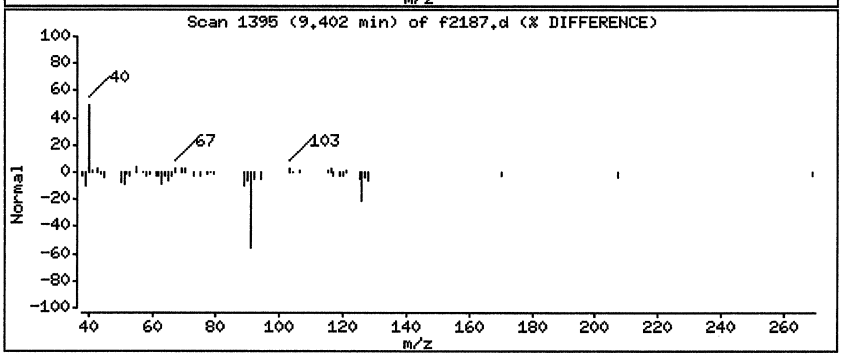
88 1,3,5-Trimethylbenzene

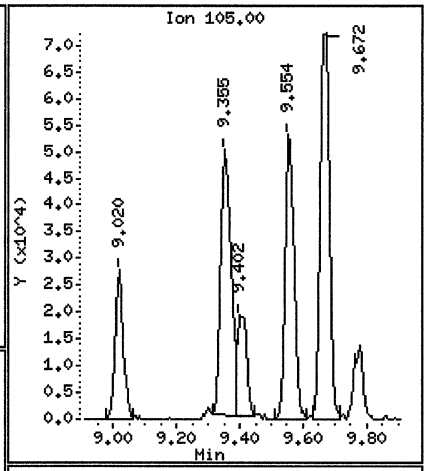
Concentration: 2.93 ug/L

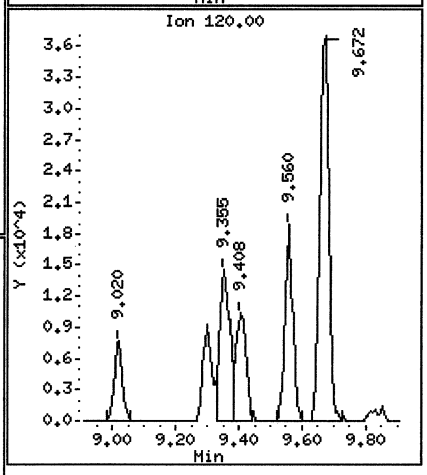












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

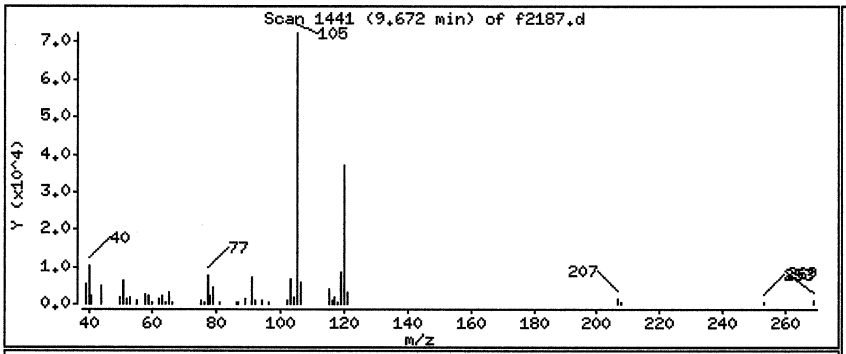
Operator: KCB

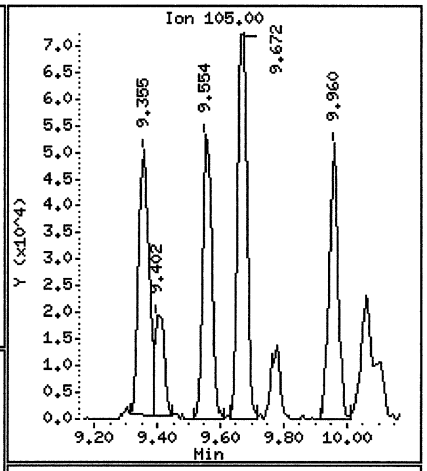
Column phase: DB-624-30M

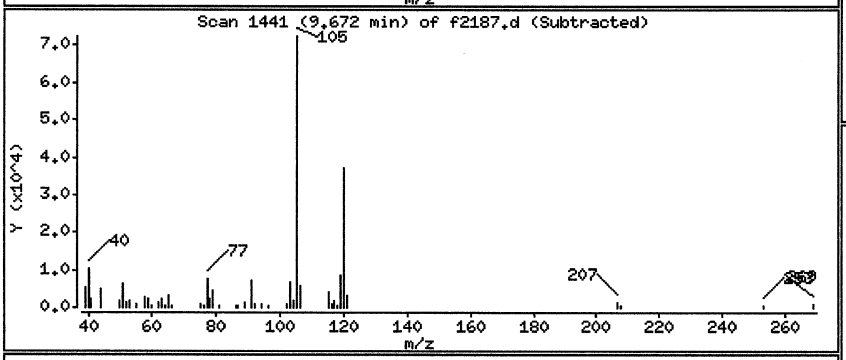
Column diameter: 0.53

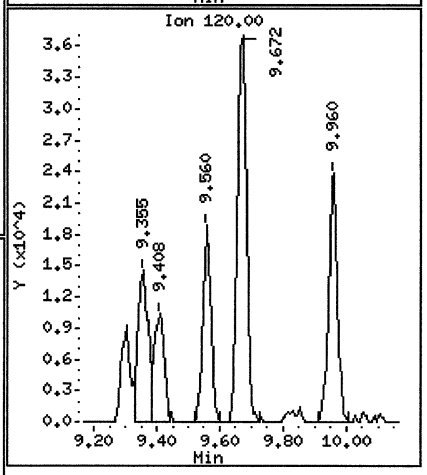
92 1,2,4-Trimethylbenzene

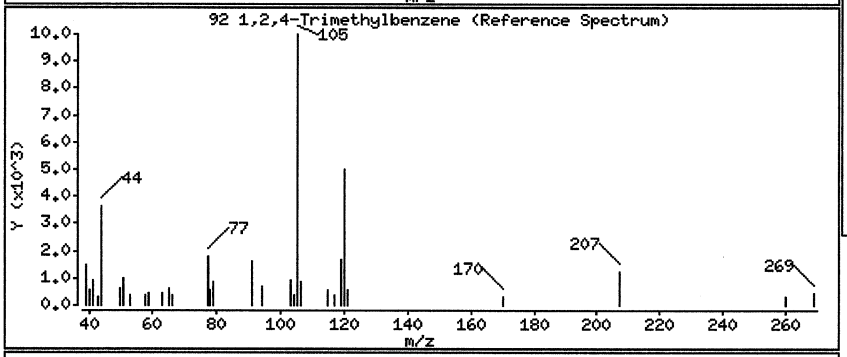
Concentration: 10.6 ug/L

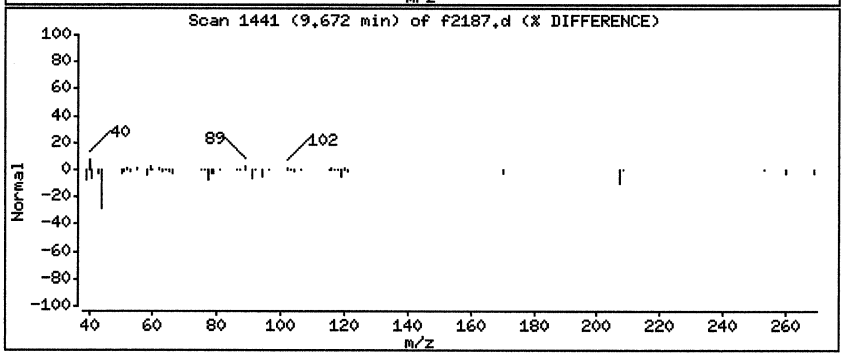












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Date : 20-JUN-2005 12:59

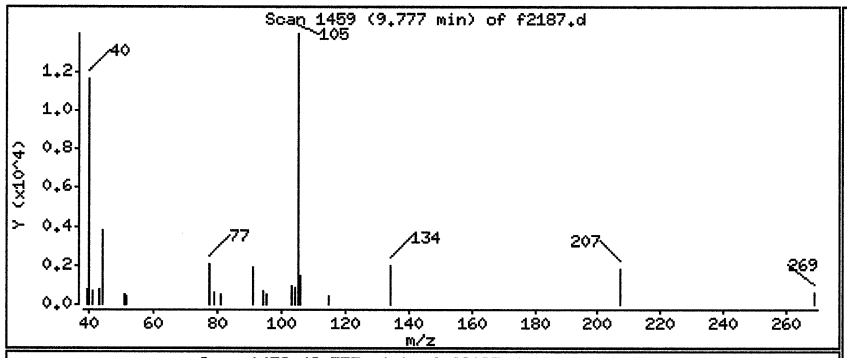
Client ID: 86-CEF43-9N-Q2-05 Instrument: msv5.i

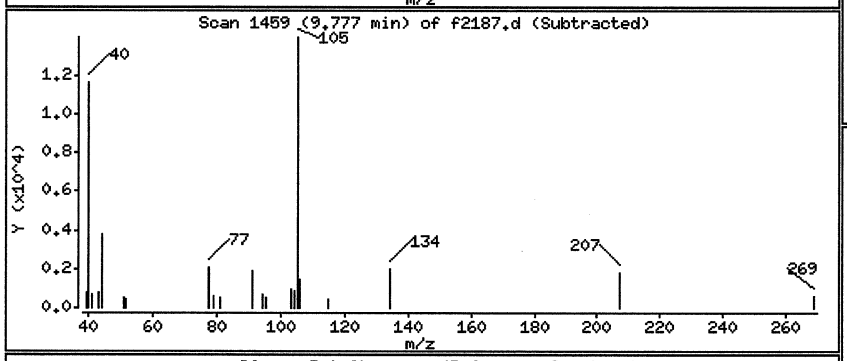
Sample Info: 20506180504*86-CEF43-9N-Q2-05

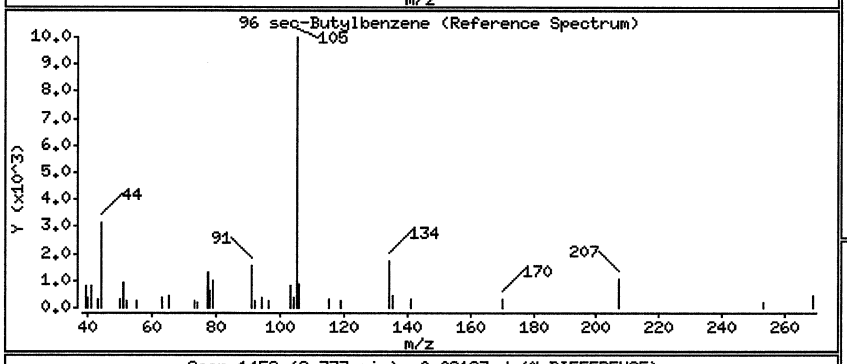
Purge Volume: 5.0 Operator: KCB

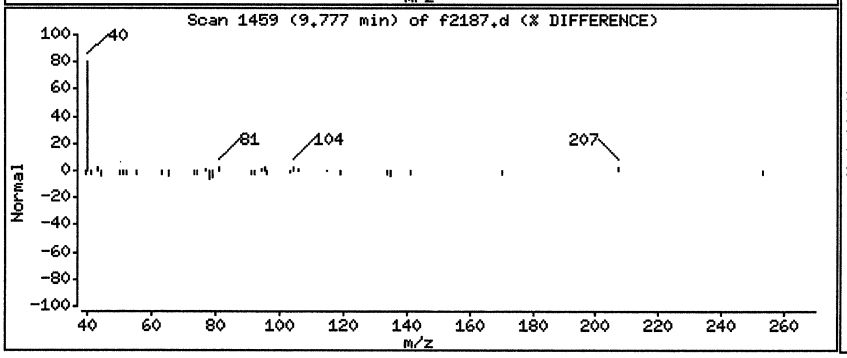
Column phase: DB-624-30M Column diameter: 0.53

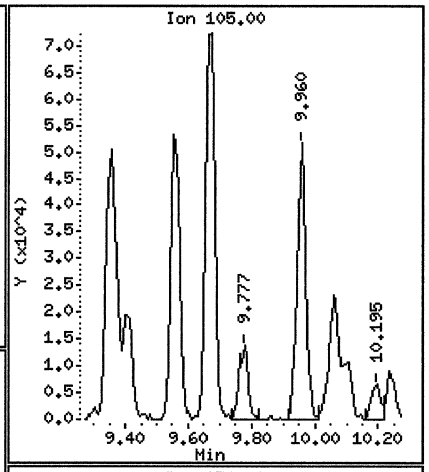
96 sec-Butylbenzene Concentration: 1.44 ug/L

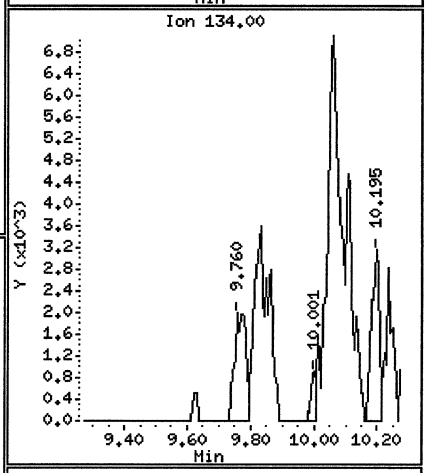


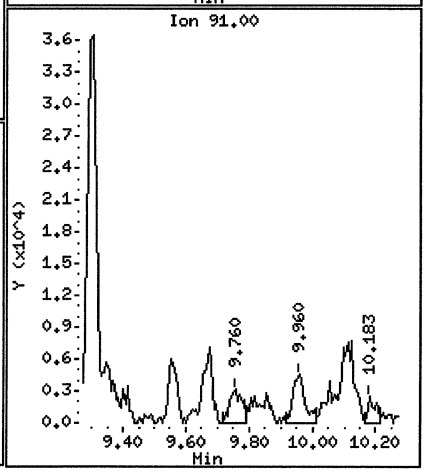












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

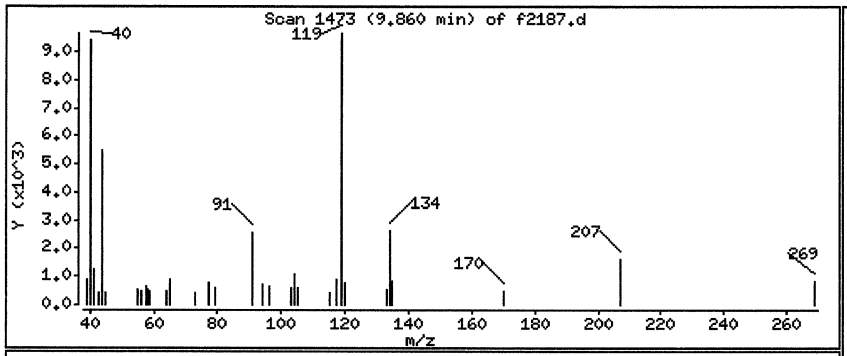
Operator: KCB

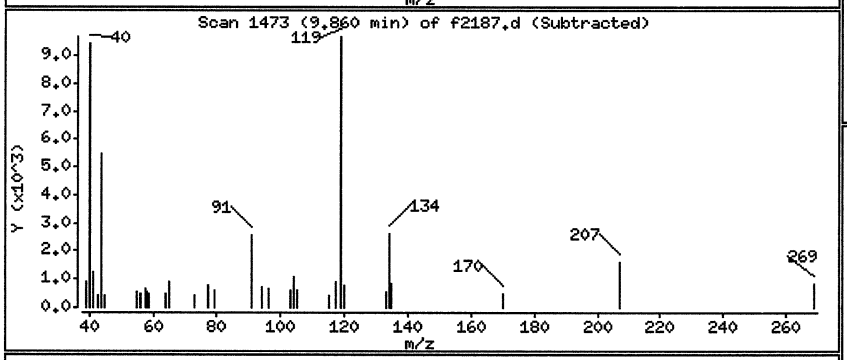
Column phase: DB-624-30M

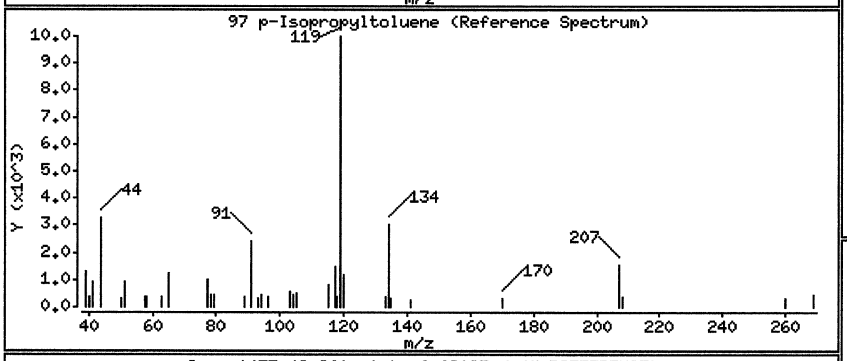
Column diameter: 0.53

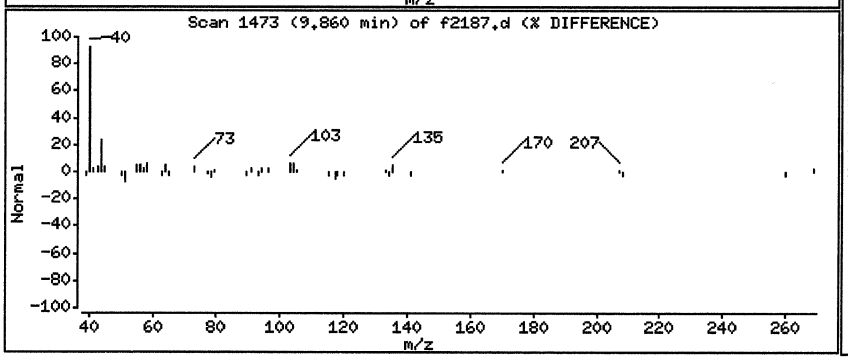
97 p-Isopropyltoluene

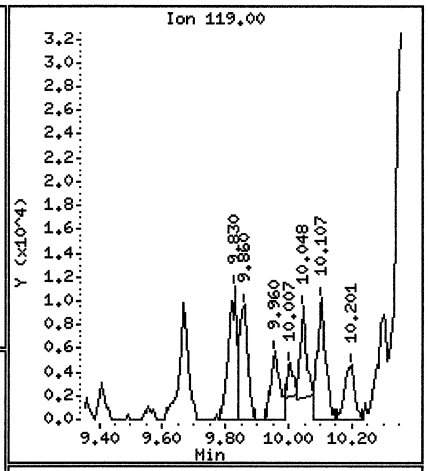
Concentration: 1.18 ug/L

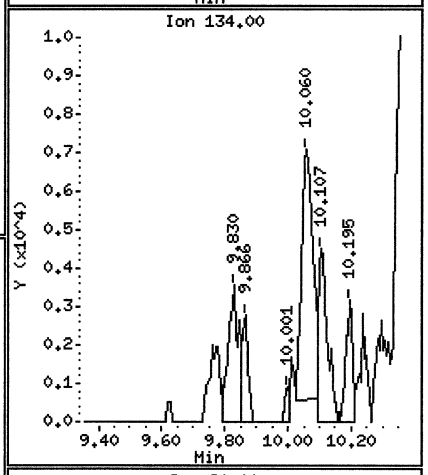


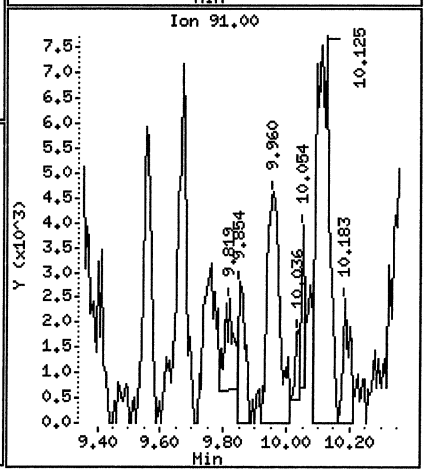












Data File: /var/chem/msv5.i/2050620.s.b/f2187.d

Date : 20-JUN-2005 12:59

Client ID: 86-CEF43-9N-Q2-05

Instrument: msv5.i

Sample Info: 20506180504*86-CEF43-9N-Q2-05

Purge Volume: 5.0

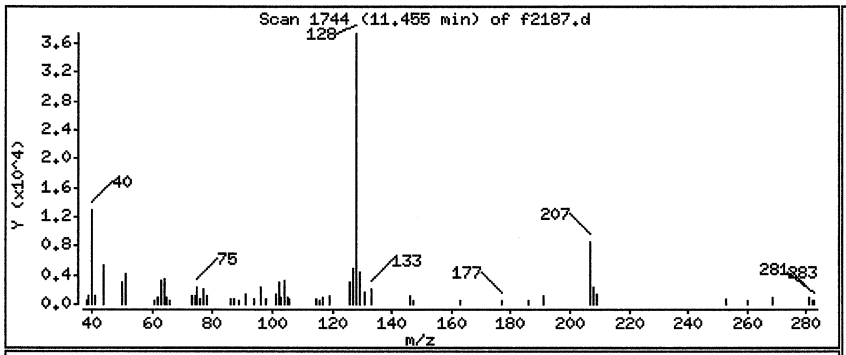
Operator: KCB

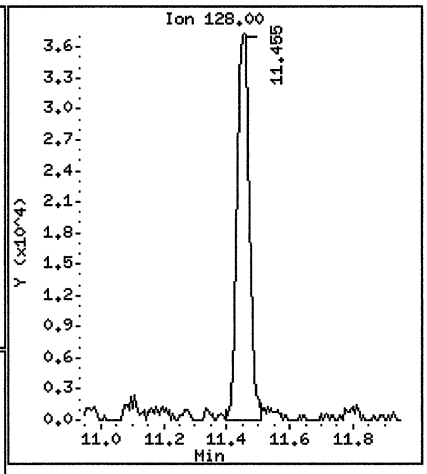
Column phase: DB-624-30M

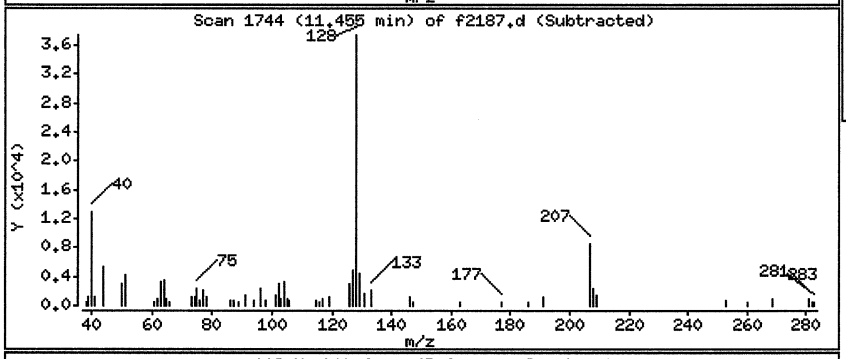
Column diameter: 0.53

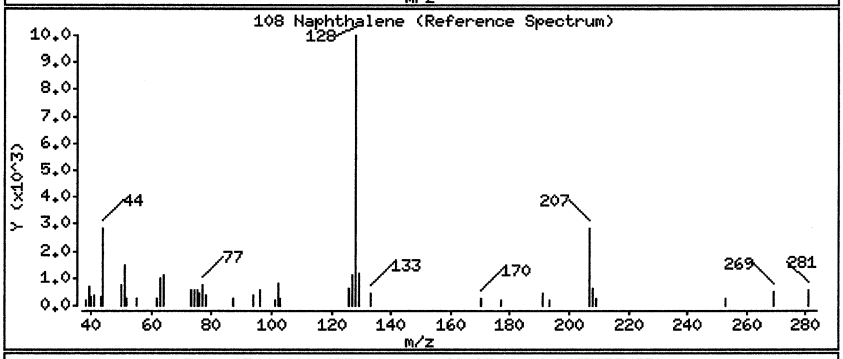
108 Naphthalene

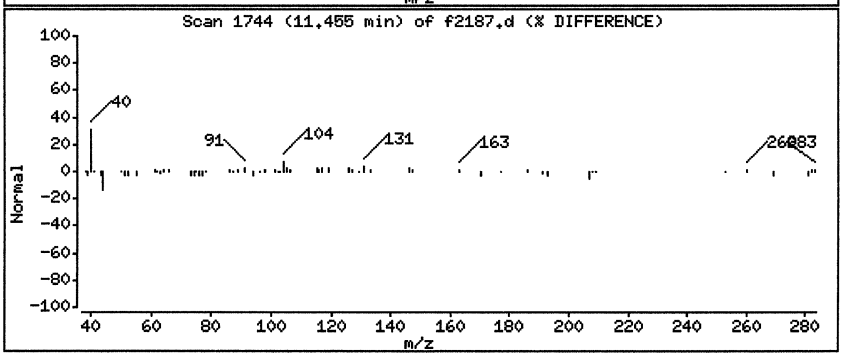
Concentration: 8.66 ug/L







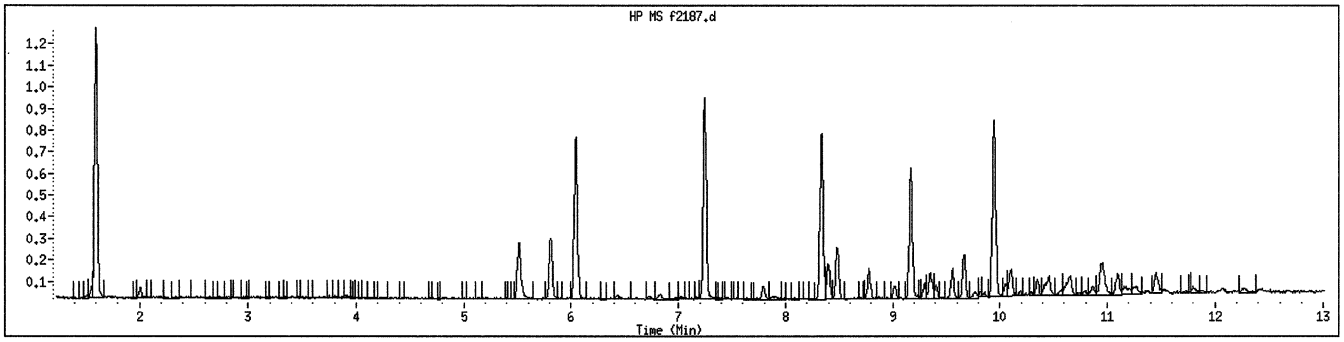




Data file : /var/chem/msv5.i/2050620.s.b/f2187.d
Report Date: 06/20/2005 13:17

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180504	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 12:59	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180504*86-CEF43-9N-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-33N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170505

Level: (low/med) LOW Lab File ID: 2050620/F2188

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1324

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	1.05	J	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-33N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170505

Level: (low/med) LOW Lab File ID: 2050620/F2188

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1324

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2188.d
Lab Smp Id: 20506170505 Client Smp ID: 86-CEF43-33N-Q2-05
Inj Date : 20-JUN-2005 13:24
Operator : KCB Inst ID: msv5.i
Smp Info : 20506170505*86-CEF43-33N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

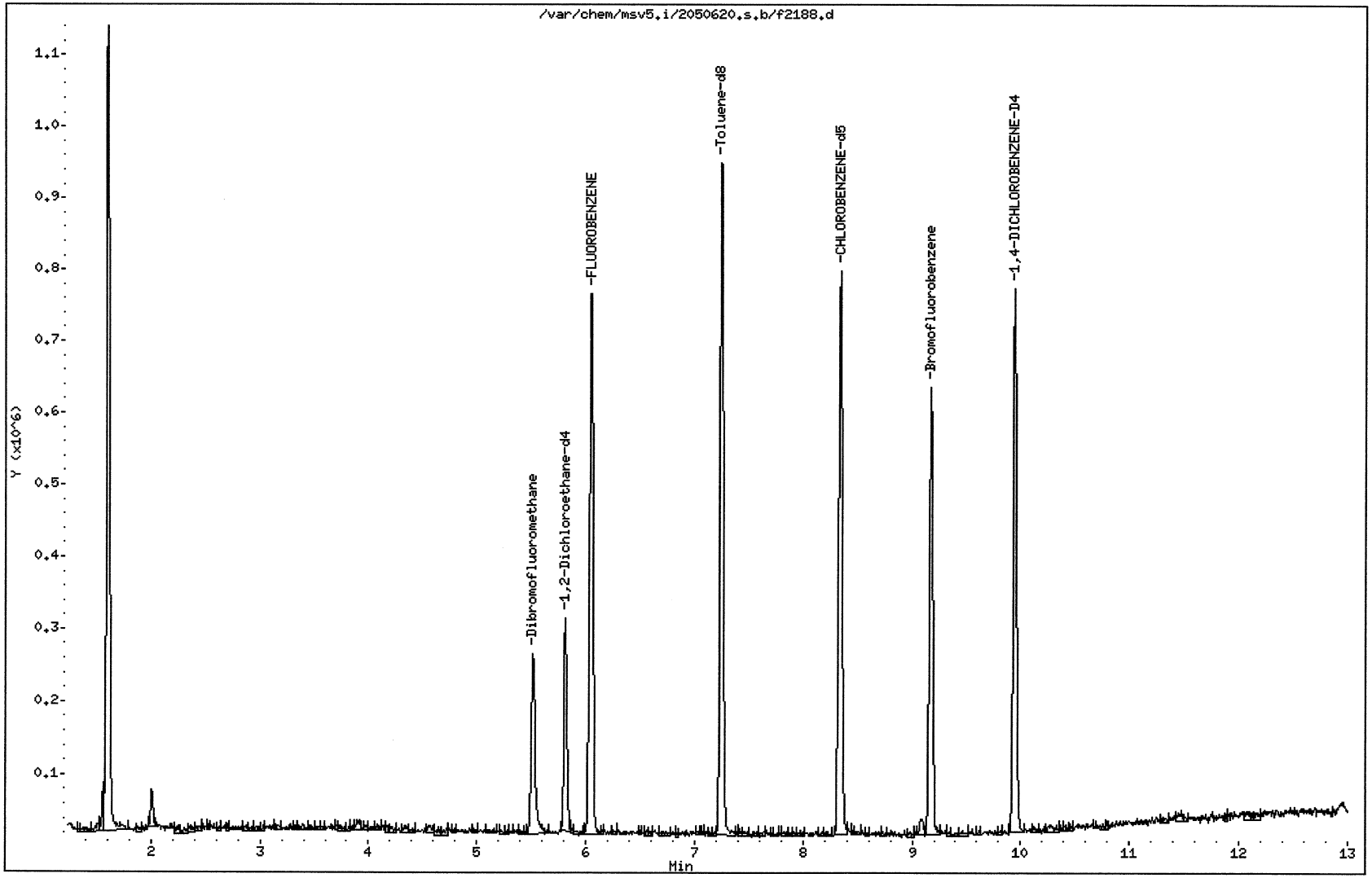
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
18 Methylene Chloride	49	3.902	3.906	(0.646)	10845	1.05006	1.05	
$ 38 Dibromofluoromethane	111	5.511	5.519	(0.912)	196701	53.2380	53.2	2050
$ 45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.961)	107725	55.0615	55.1	
* 47 FLUOROBENZENE	96	6.044	6.048	(1.000)	753365	50.0000		
$ 60 Toluene-d8	98	7.244	7.245	(0.869)	720861	54.1965	54.2	
* 70 CHLOROBENZENE-d5	82	8.339	8.343	(1.000)	298122	50.0000		
$ 80 Bromofluorobenzene	174	9.171	9.172	(1.100)	225852	53.8895	53.9	
* 99 1,4-DICHLOROBENZENE-D4	152	9.944	9.944	(1.000)	268061	50.0000		
108 Naphthalene	128	11.457	11.449	(1.152)	12603	1.05617	1.06	

Data File: /var/chem/msv5.i/2050620.s.b/f2188.d
Date : 20-JUN-2005 13:24
Client ID: 86-CEF43-33N-Q2-05
Sample Info: 20506170505*86-CEF43-33N-Q2-05
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i
Operator: KCB
Column diameter: 0.53



Data File: /var/chem/msv5.i/2050620.s.b/f2188.d

Date : 20-JUN-2005 13:24

Client ID: 86-CEF43-33N-Q2-05

Instrument: msv5.i

Sample Info: 20506170505*86-CEF43-33N-Q2-05

Purge Volume: 5.0

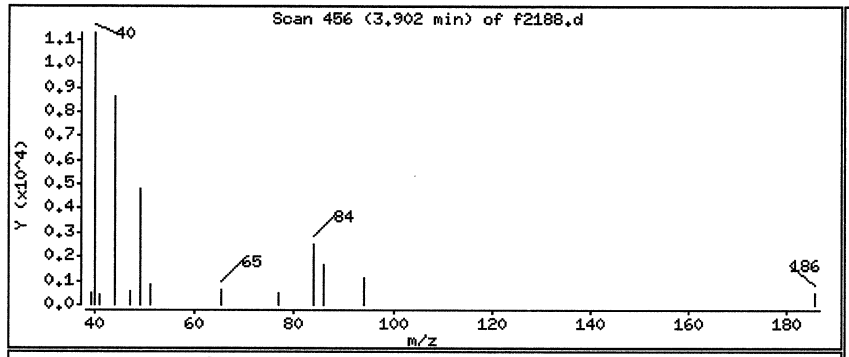
Operator: KCB

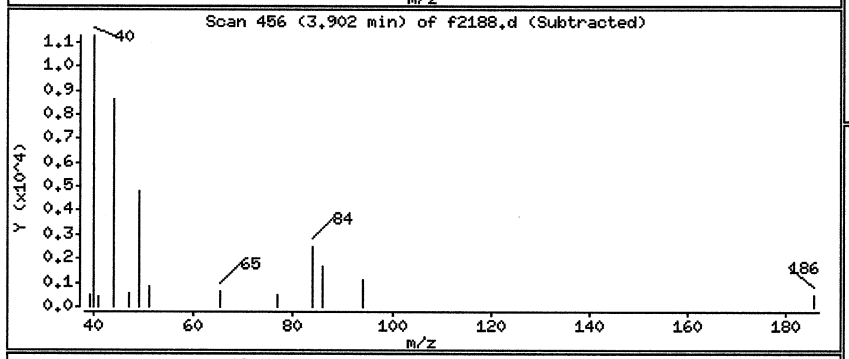
Column phase: DB-624-30M

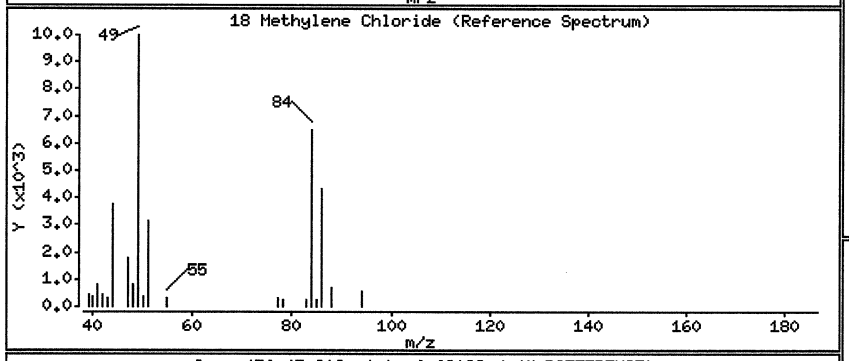
Column diameter: 0.53

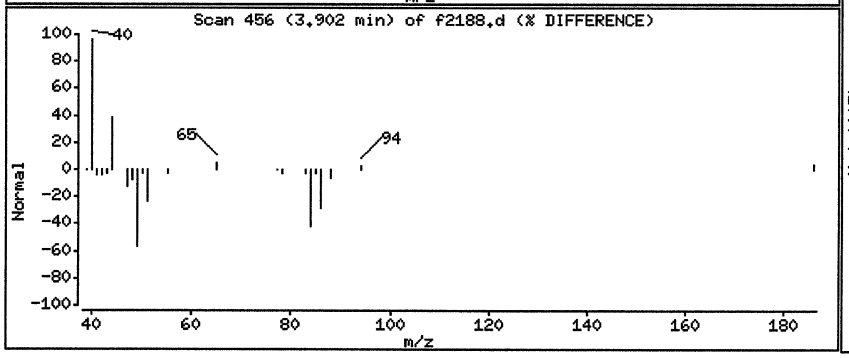
18 Methylene Chloride

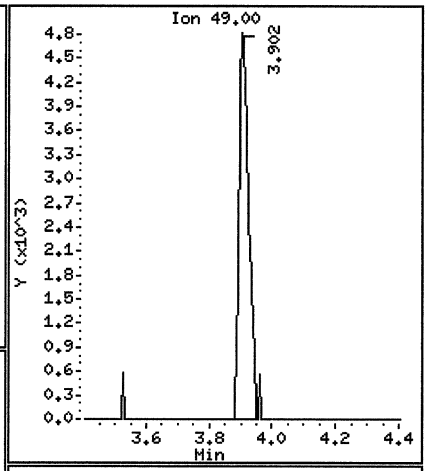
Concentration: 1.05 ug/L

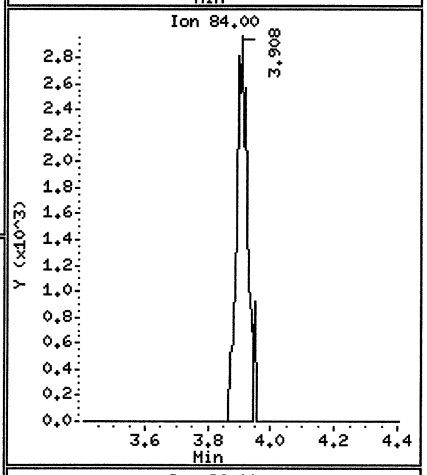


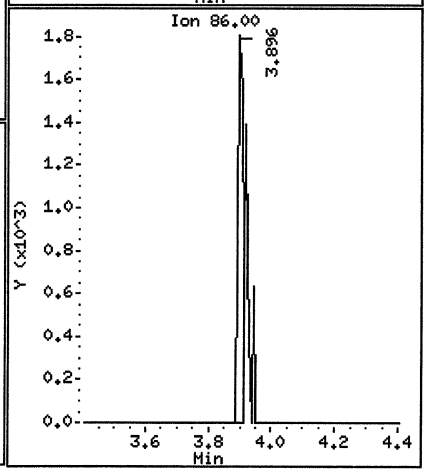












Data File: /var/chem/msv5.i/20506 20.s.b/f2188.d

Date : 20-JUN-2005 13:24

Client ID: 86-CEF43-33N-Q2-05

Instrument: msv5.i

Sample Info: 20506170505*86-CEF43-33N-Q2-05

Purge Volume: 5.0

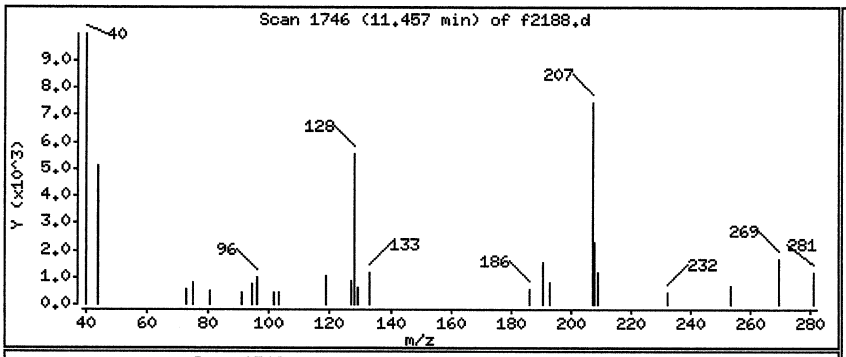
Operator: KCB

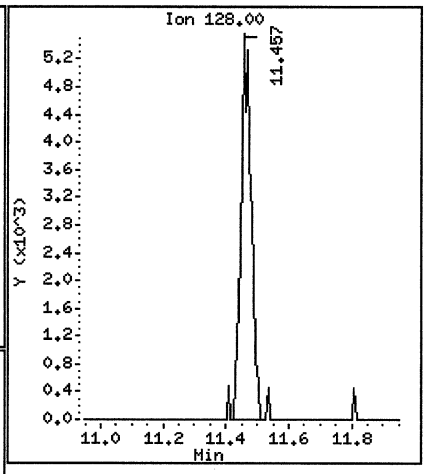
Column phase: DB-624-30M

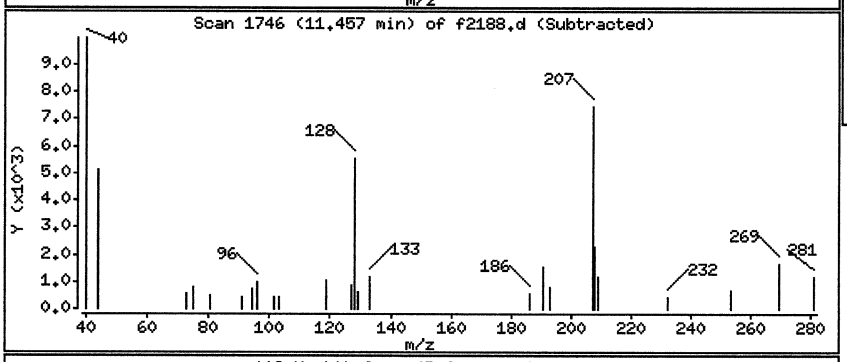
Column diameter: 0.53

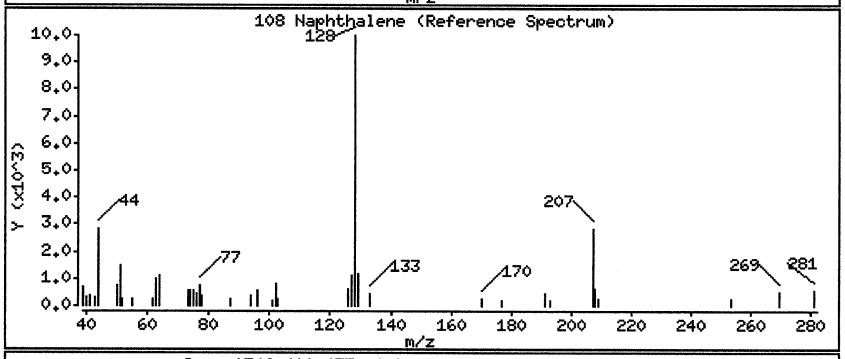
108 Naphthalene

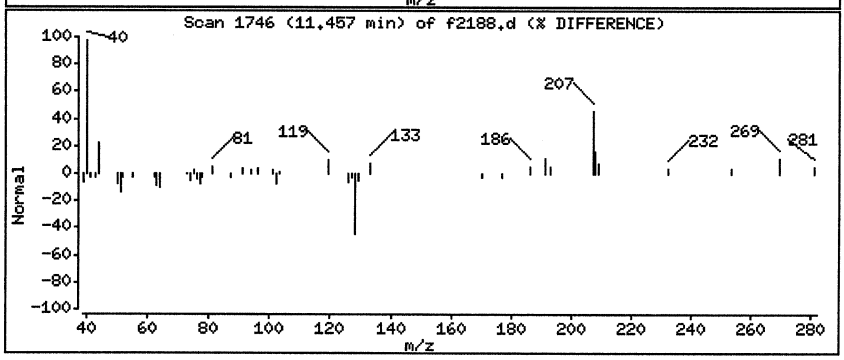
Concentration: 1.06 ug/L







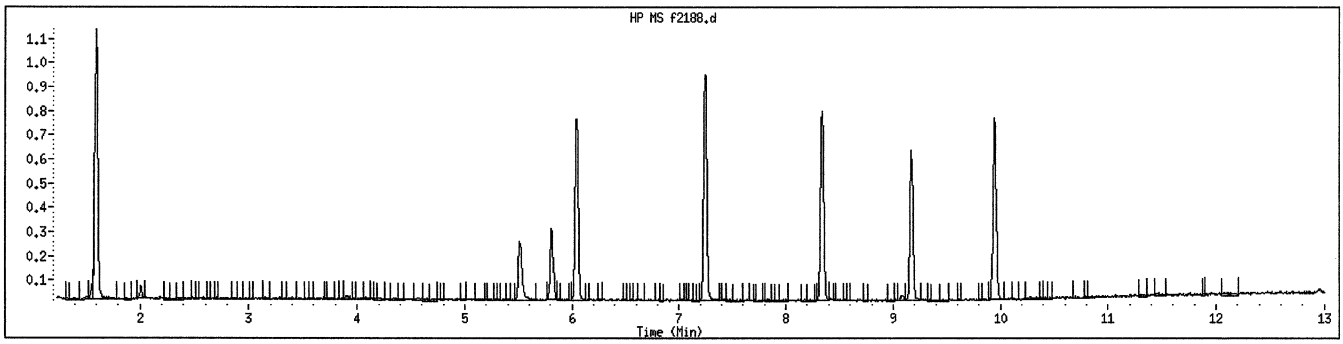




Data file : /var/chem/msv5.i/2050620.s.b/f2188.d Page: 1
Report Date: 06/20/2005 13:48

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 20506170505 SampleType : SAMPLE
Injection Date: 20-JUN-2005 13:24 Instrument : msv5.i
Operator : KCB
Sample Info : 20506170505*86-CEF43-33N-Q2-05
Misc Info : MSV~6435~*1*KCB
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-38N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170506

Level: (low/med) LOW Lab File ID: 2050620/F2179

% Moisture: not dec. Date Collected: 06/16/05 Time: 1525

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0942

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-CEF43-38N-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170506

Level: (low/med) LOW Lab File ID: 2050620/F2179

% Moisture: not dec. Date Collected: 06/16/05 Time: 1525

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0942

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2179.d
Lab Smp Id: 20506180506 Client Smp ID: 86-CEF43-33N-Q2-05
Inj Date : 20-JUN-2005 09:42
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180506*86-CEF43-33N-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.518	5.519	(0.913)	204957	53.3553	53.4	1958
$ 45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.961)	110390	54.2702	54.3	
* 47 FLUOROBENZENE	96	6.045	6.048	(1.000)	783259	50.0000		
$ 60 Toluene-d8	98	7.245	7.245	(0.869)	775362	56.4479	56.4	
* 70 CHLOROBENZENE-d5	82	8.334	8.343	(1.000)	307872	50.0000		
$ 80 Bromofluorobenzene	174	9.171	9.172	(1.101)	240174	55.4920	55.5	
* 99 1,4-DICHLOROBENZENE-D4	152	9.945	9.944	(1.000)	279447	50.0000		

Data File: /var/chem/msv5.i/2050620.s.b/f2179.d

Date : 20-JUN-2005 09:42

Client ID: 86-CEF43-33N-Q2-05

Sample Info: 20506180506*86-CEF43-33N-Q2-05

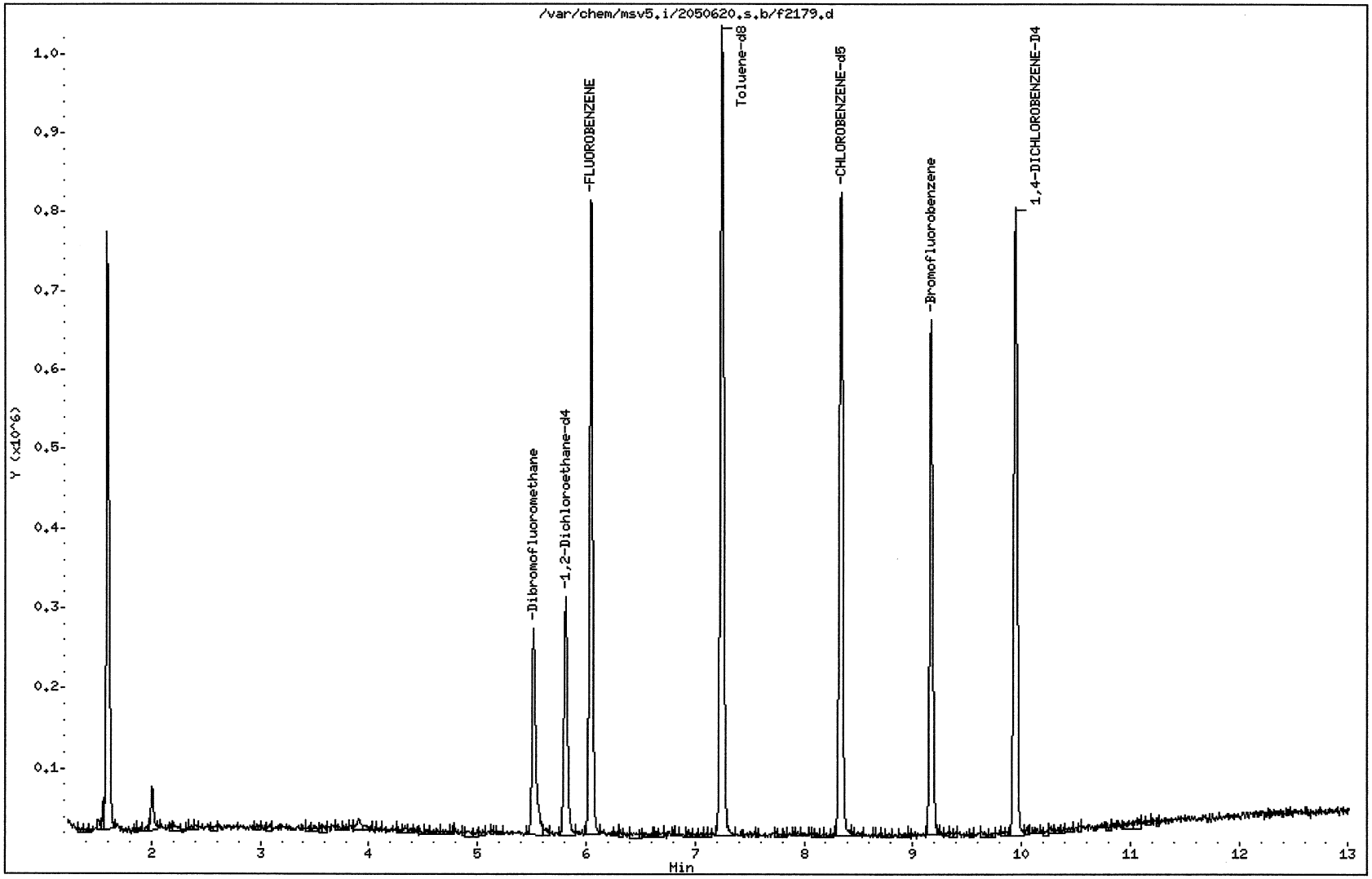
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv5.i

Operator: KCB

Column diameter: 0.53



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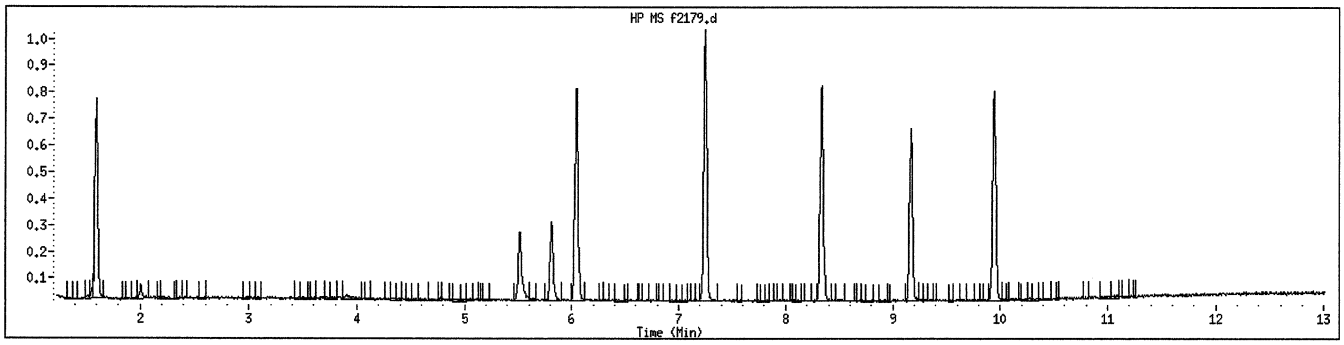
Data file : /var/chem/msv5.i/2050620.s.b/f2179.d
Report Date: 06/20/2005 09:56

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180506	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 09:42	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180506*86-CEF43-33N-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170509

Level: (low/med) LOW Lab File ID: 2050620/F2189

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1349

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	6.82		0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	7.84	J	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170509

Level: (low/med) LOW Lab File ID: 2050620/F2189

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1349

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2189.d
Lab Smp Id: 20506170509 Client Smp ID: 86-DUP-Q2-05
Inj Date : 20-JUN-2005 13:49
Operator : KCB Inst ID: msv5.i
Smp Info : 20506170509*86-DUP-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
13 Acetone	43	3.451	3.448	(0.571)	14961	12.9161	12.9	
$ 38 Dibromofluoromethane	111	5.512	5.519	(0.912)	185325	51.8335	51.8	5097
$ 45 1,2-Dichloroethane-d4	67	5.811	5.819	(0.961)	105964	55.9695	56.0	
* 47 FLUOROBENZENE	96	6.046	6.048	(1.000)	729028	50.0000		
$ 60 Toluene-d8	98	7.247	7.245	(0.869)	717779	53.7106	53.7	
* 70 CHLOROBENZENE-d5	82	8.337	8.343	(1.000)	299533	50.0000		
72 Ethylbenzene +	106	8.402	8.402	(1.008)	38792	6.82057	6.82	
74 p,m-Xylene	106	8.478	8.485	(1.017)	9569	1.37559	1.38	
75 o-Xylene	106	8.783	8.778	(1.053)	43173	6.46028	6.46	
$ 80 Bromofluorobenzene	174	9.170	9.172	(1.100)	229163	54.4220	54.4	
92 1,2,4-Trimethylbenzene	105	9.669	9.667	(0.972)	63344	4.59392	4.59	
* 99 1,4-DICHLOROBENZENE-D4	152	9.946	9.944	(1.000)	264784	50.0000		
M 101 TOTAL XYLENE	106				52742	7.83587	7.84	
108 Naphthalene	128	11.451	11.449	(1.151)	20920	1.77486	1.77	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

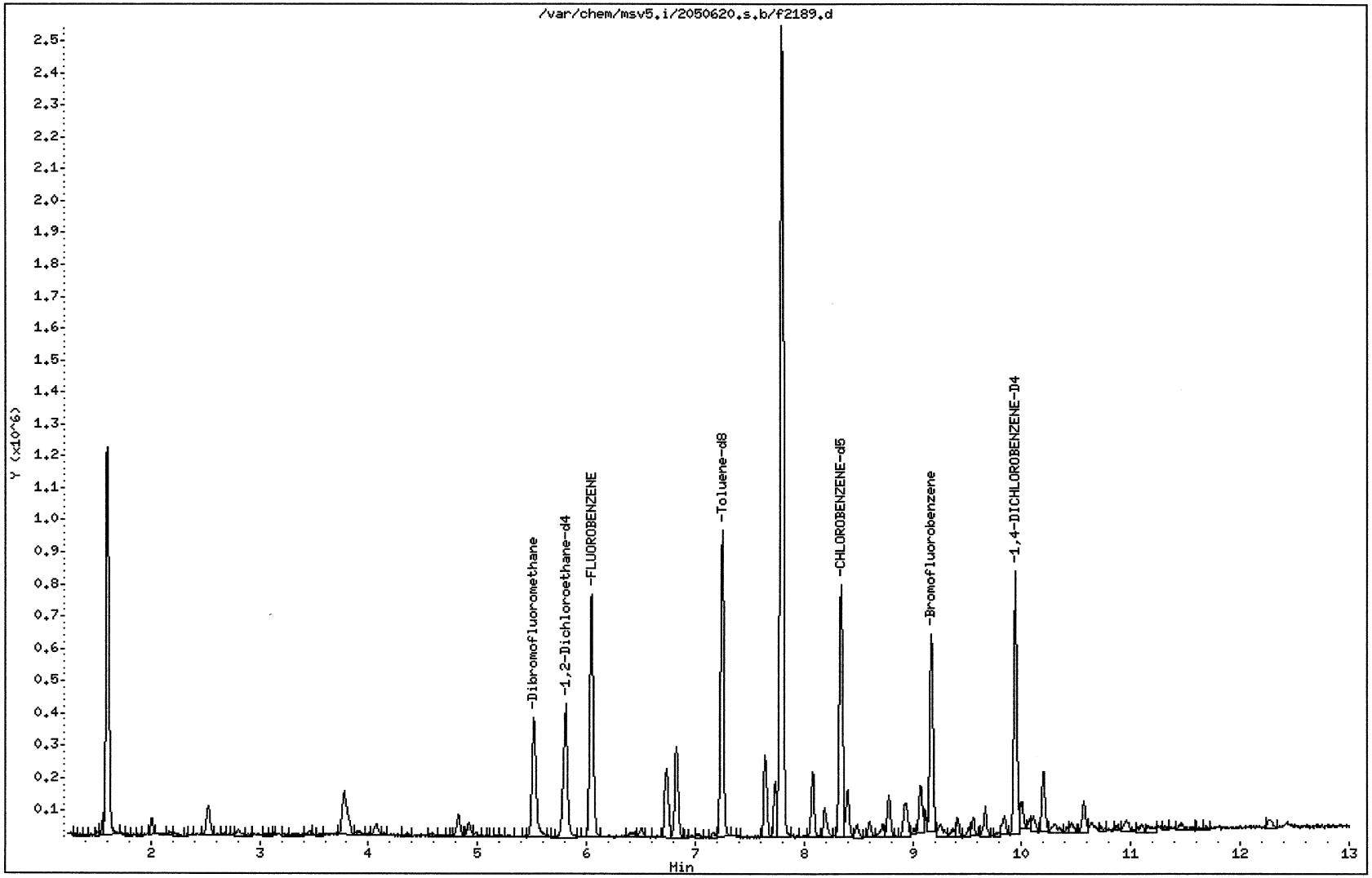
Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

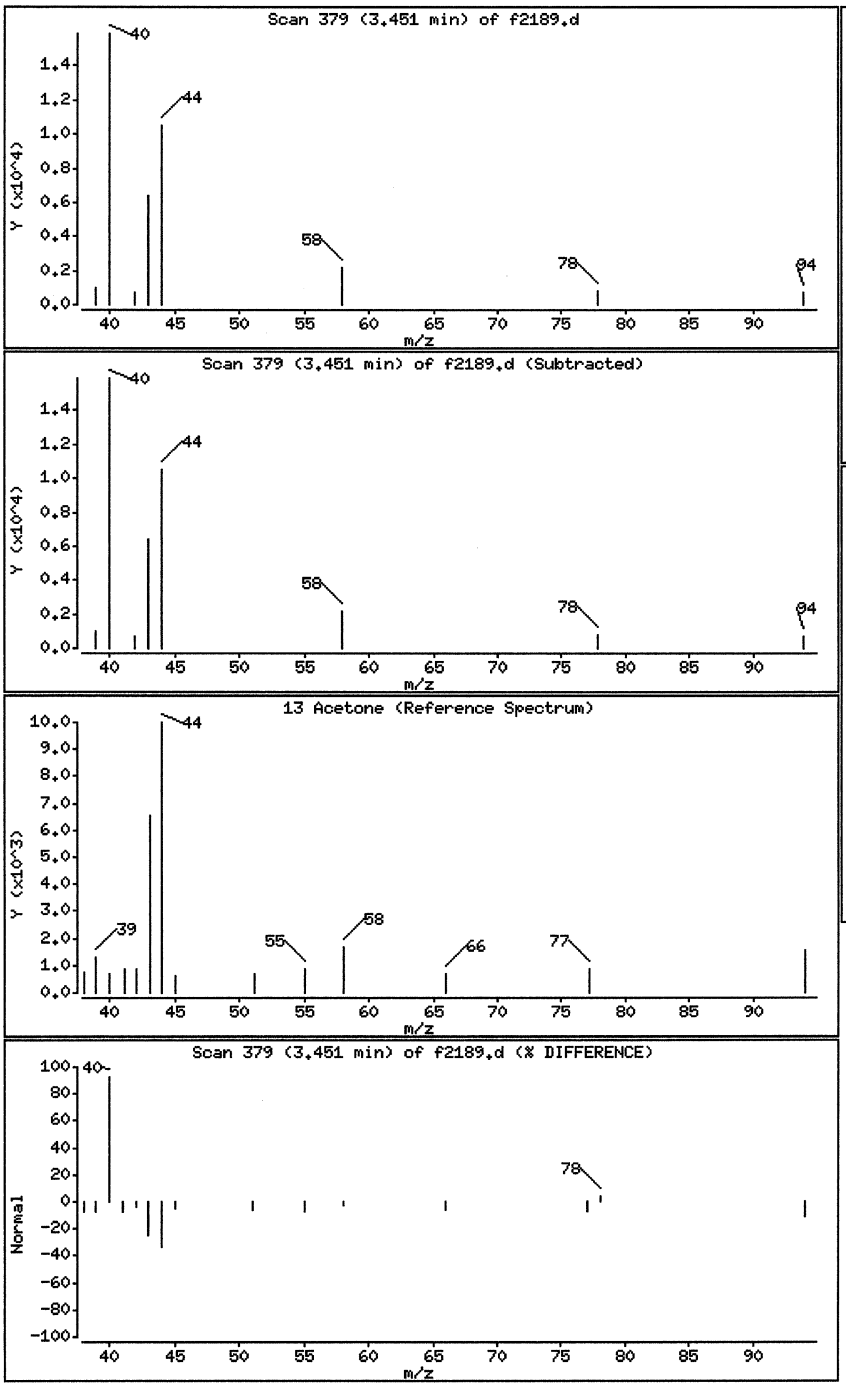
Operator: KCB

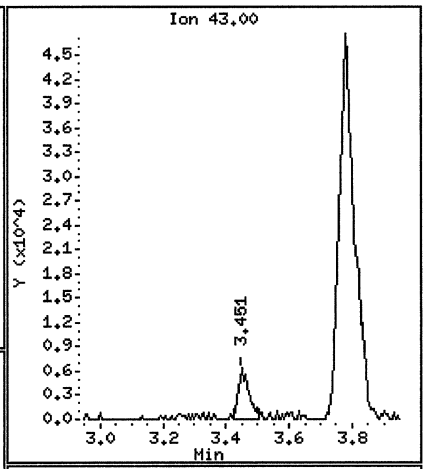
Column phase: DB-624-30M

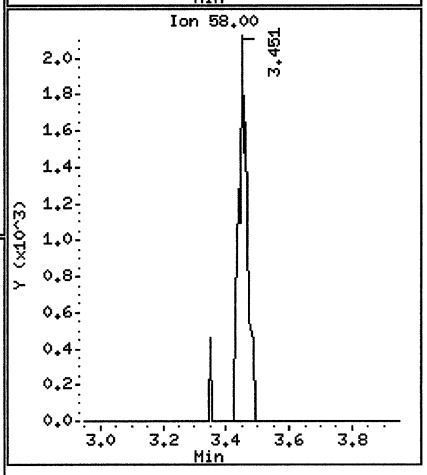
Column diameter: 0.53

13 Acetone

Concentration: 12.9 ug/L







Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

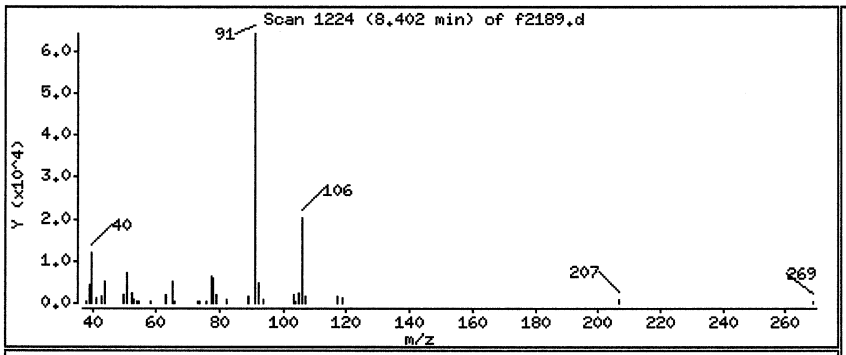
Operator: KCB

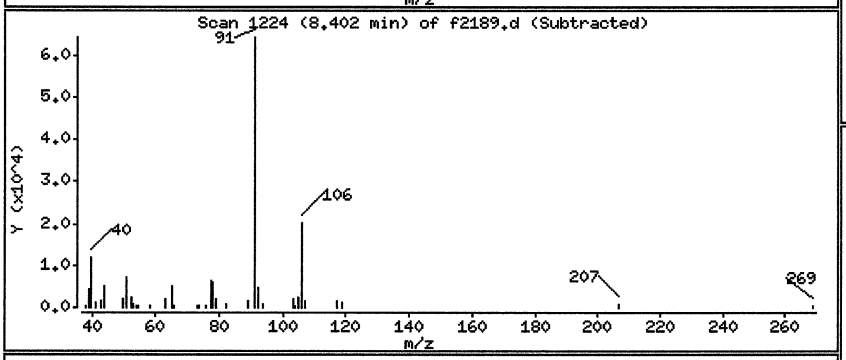
Column phase: DB-624-30M

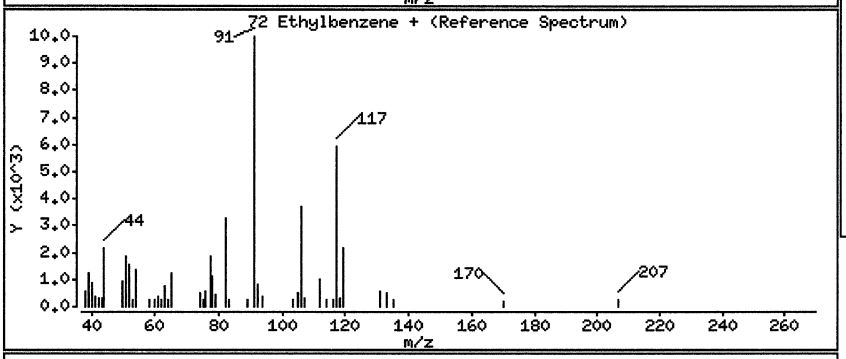
Column diameter: 0.53

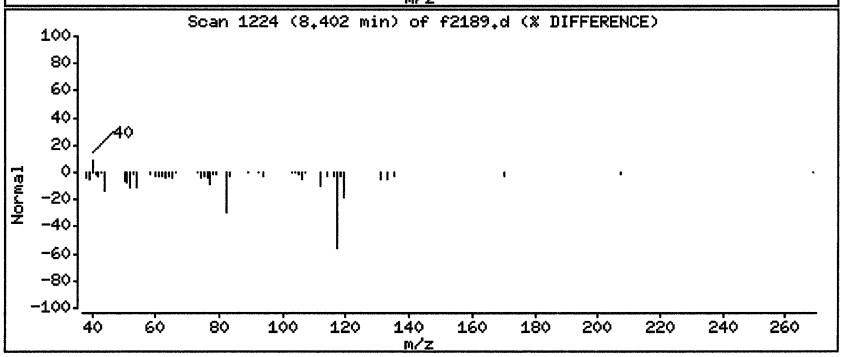
72 Ethylbenzene +

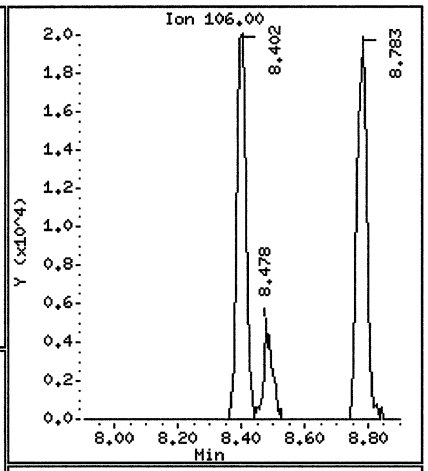
Concentration: 6.82 ug/L

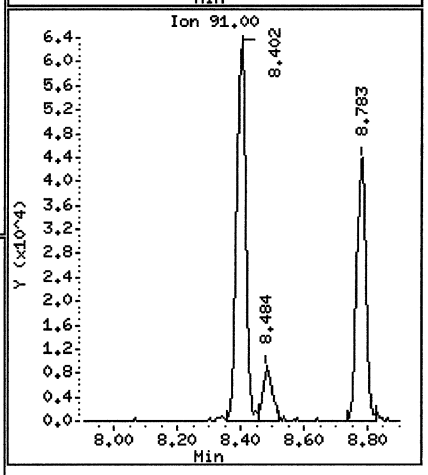












Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

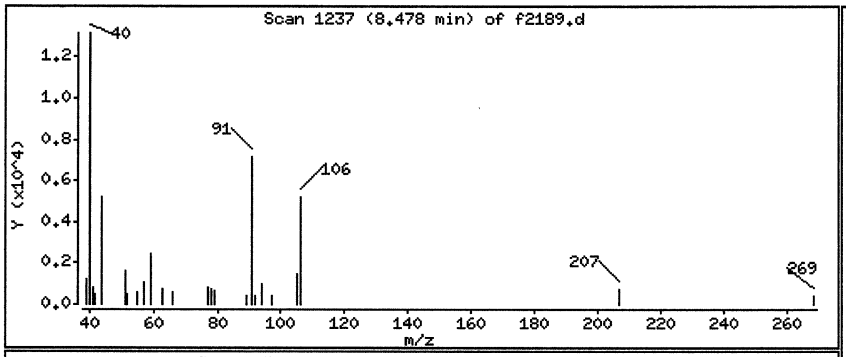
Operator: KCB

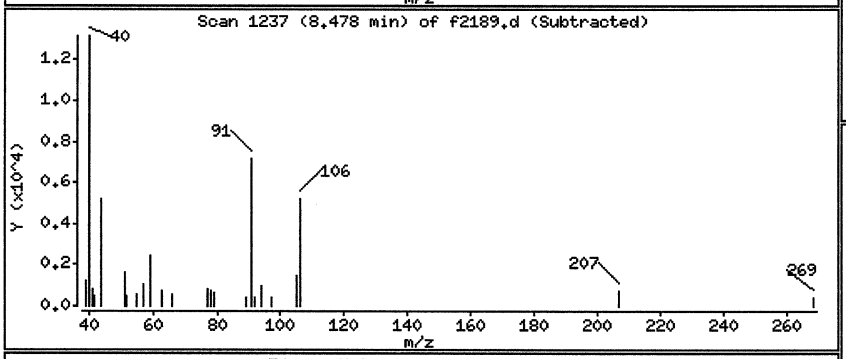
Column phase: DB-624-30M

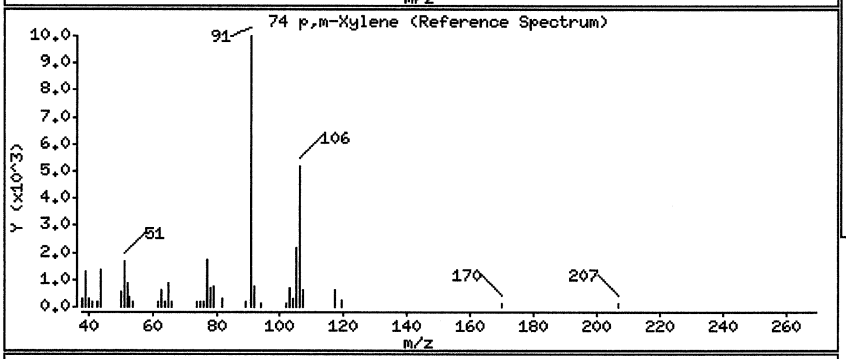
Column diameter: 0.53

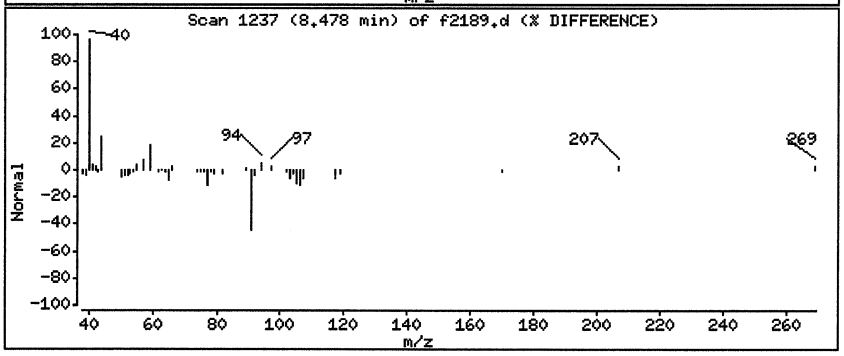
74 p,m-Xylene

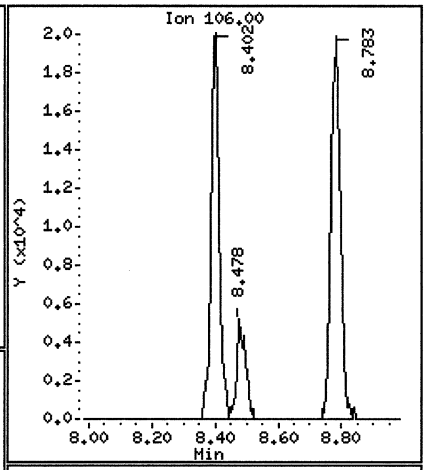
Concentration: 1.38 ug/L

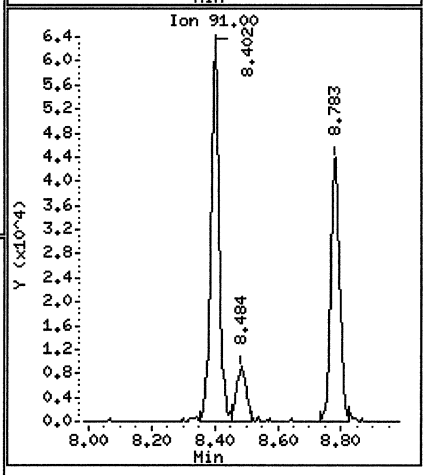












Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

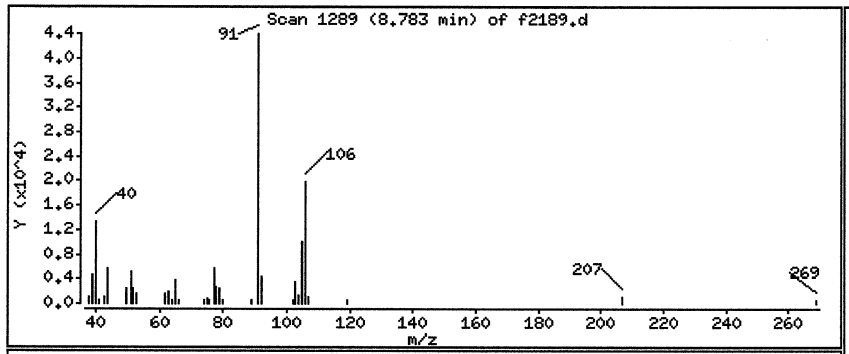
Operator: KCB

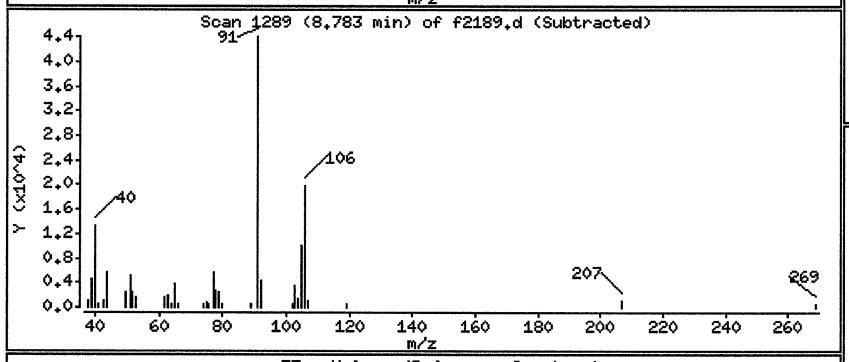
Column phase: DB-624-30M

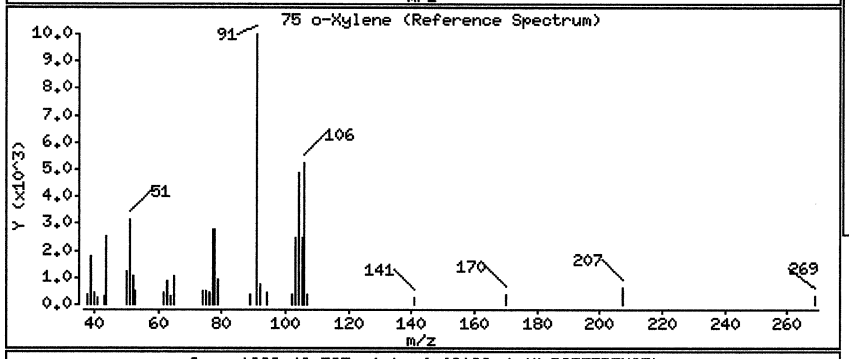
Column diameter: 0.53

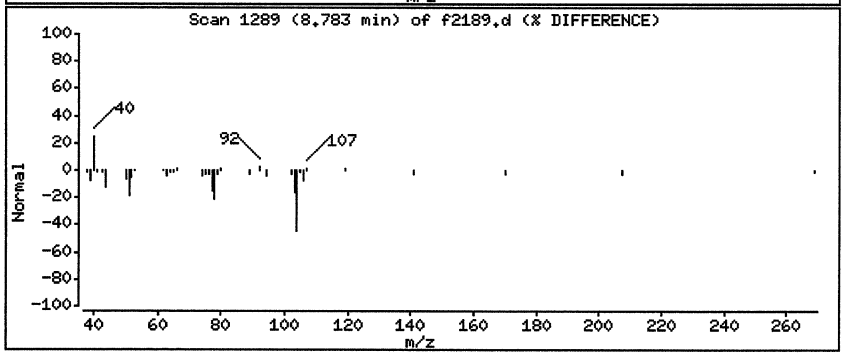
75 o-Xylene

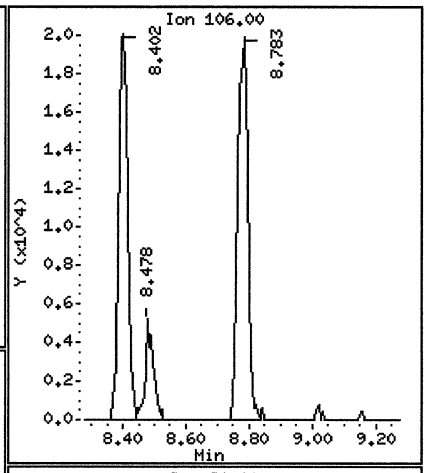
Concentration: 6.46 ug/L

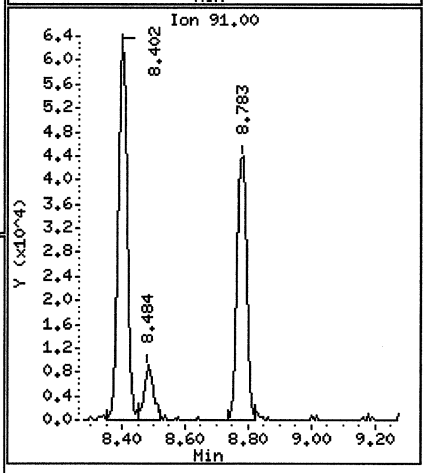












Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

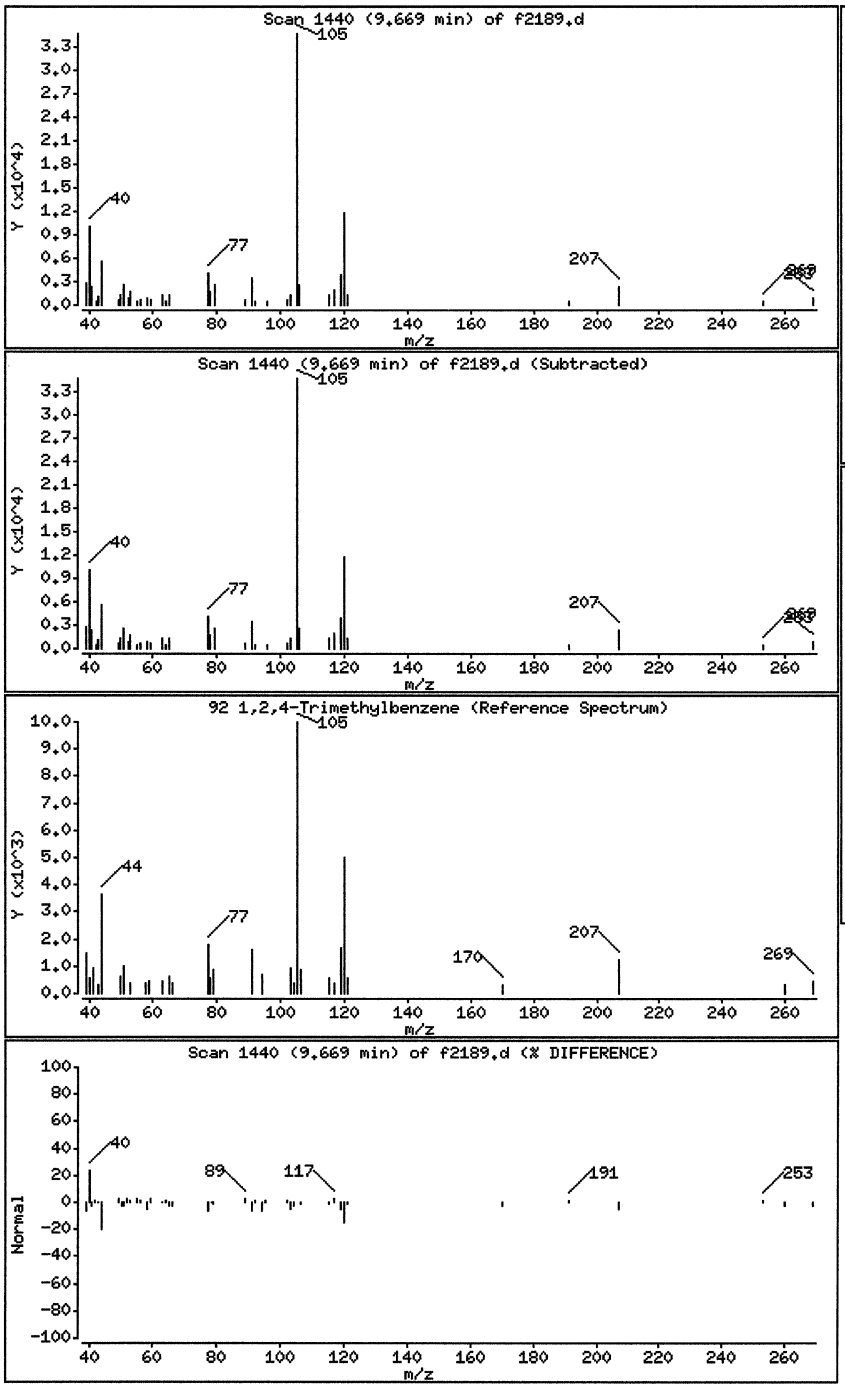
Operator: KCB

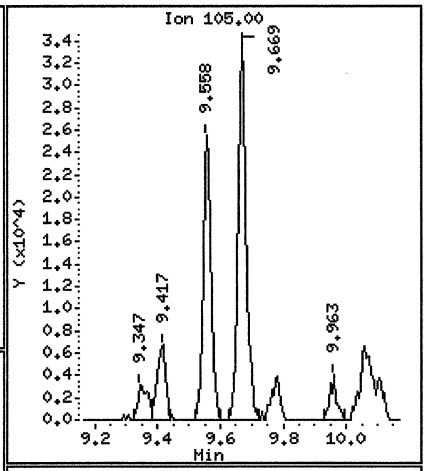
Column phase: DB-624-30M

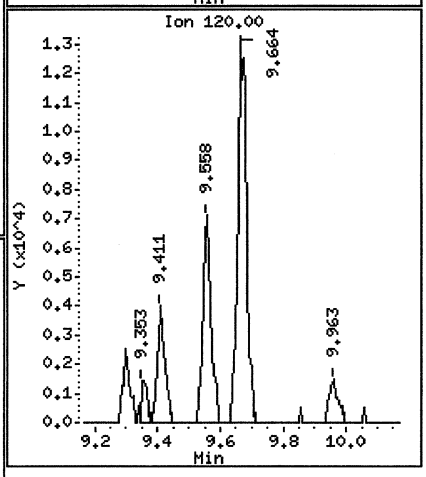
Column diameter: 0.53

92 1,2,4-Trimethylbenzene

Concentration: 4.59 ug/L







Data File: /var/chem/msv5.i/2050620.s.b/f2189.d

Date : 20-JUN-2005 13:49

Client ID: 86-DUP-Q2-05

Instrument: msv5.i

Sample Info: 20506170509*86-DUP-Q2-05

Purge Volume: 5.0

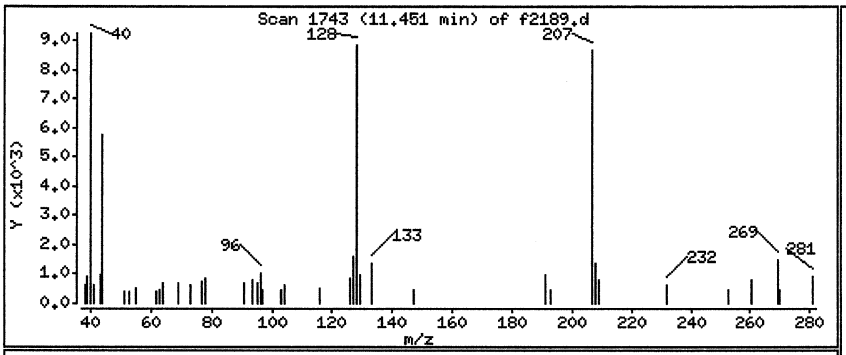
Operator: KCB

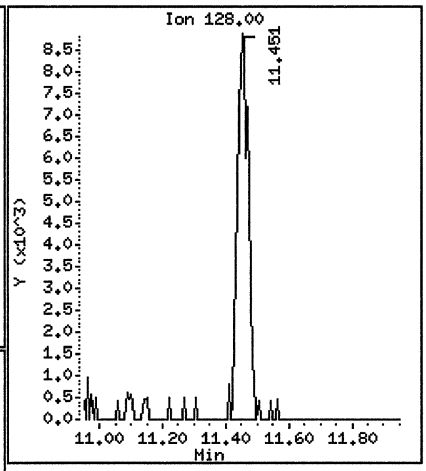
Column phase: DB-624-30M

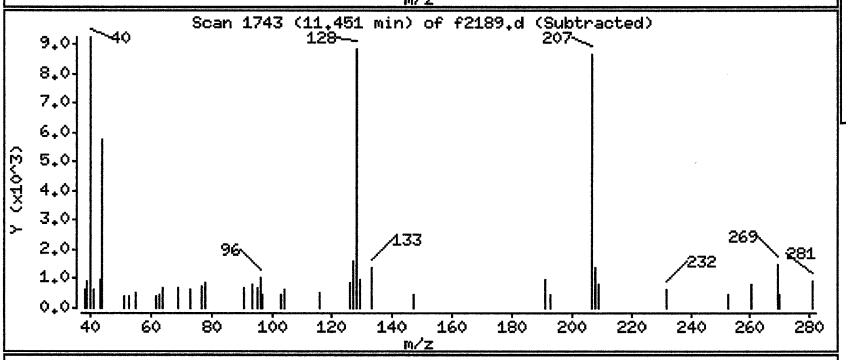
Column diameter: 0.53

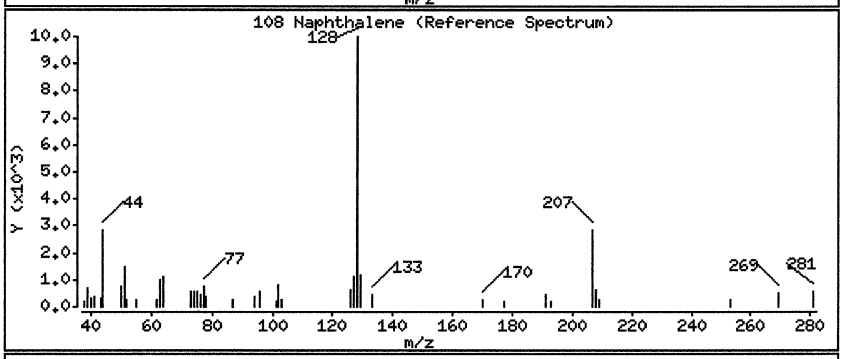
108 Naphthalene

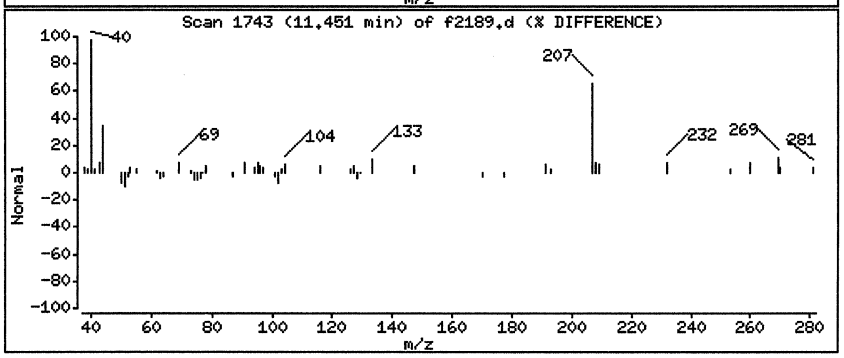
Concentration: 1.77 ug/L







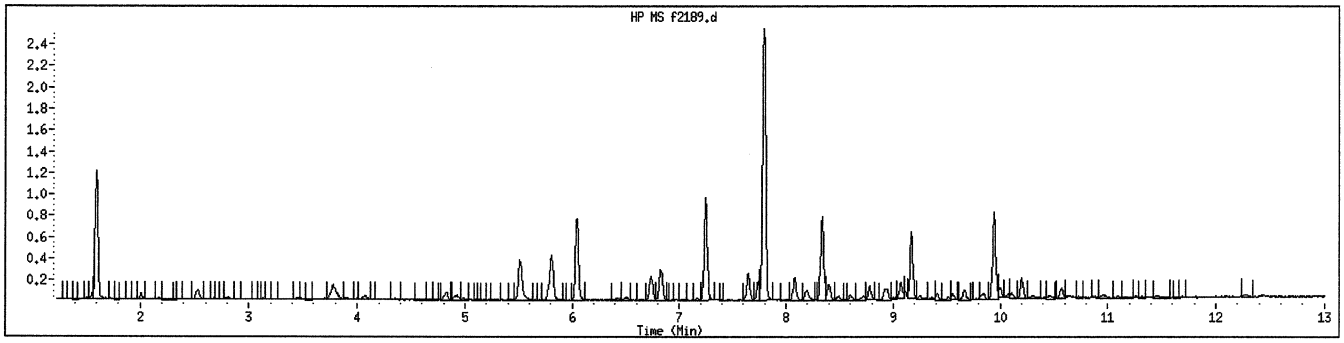




Data file : /var/chem/msv5.i/2050620.s.b/f2189.d
Report Date: 06/20/2005 14:38

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506170509	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 13:49	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506170509*86-DUP-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170510

Level: (low/med) LOW Lab File ID: 2050620/F2180

% Moisture: not dec. Date Collected: 06/16/05 Time: 1650

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1007

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170510

Level: (low/med) LOW Lab File ID: 2050620/F2180

% Moisture: not dec. Date Collected: 06/16/05 Time: 1650

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1007

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2180.d
Lab Smp Id: 20506180510 Client Smp ID: 86-EB-Q2-05
Inj Date : 20-JUN-2005 10:07
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180510*86-EB-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.512	5.519	(0.912)	198020	52.1154	52.1	2078
$ 45 1,2-Dichloroethane-d4	67	5.811	5.819	(0.961)	106018	52.6930	52.7	
* 47 FLUOROBENZENE	96	6.045	6.048	(1.000)	774754	50.0000		
$ 60 Toluene-d8	98	7.245	7.245	(0.869)	733438	51.7779	51.8	
* 70 CHLOROBENZENE-d5	82	8.334	8.343	(1.000)	317492	50.0000		
$ 80 Bromofluorobenzene	174	9.166	9.172	(1.100)	239238	53.6009	53.6	
* 99 1,4-DICHLOROBENZENE-D4	152	9.945	9.944	(1.000)	268030	50.0000		

Data File: /var/chem/msv5.i/2050620.s.b/f2180.d

Date : 20-JUN-2005 10:07

Client ID: 86-EB-Q2-05

Instrument: msv5.i

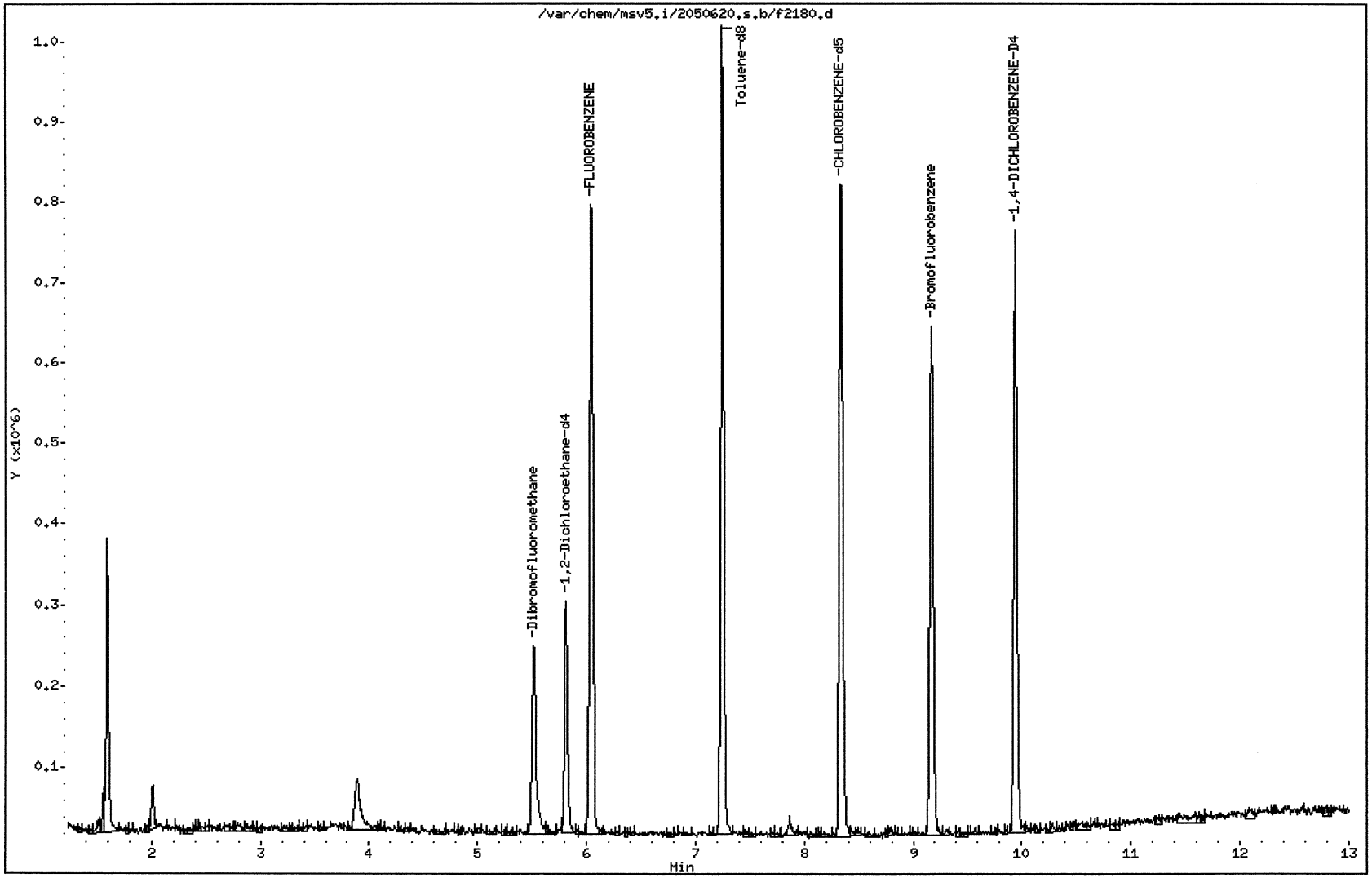
Sample Info: 20506180510*86-EB-Q2-05

Purge Volume: 5.0

Operator: KCB

Column phase: DB-624-30M

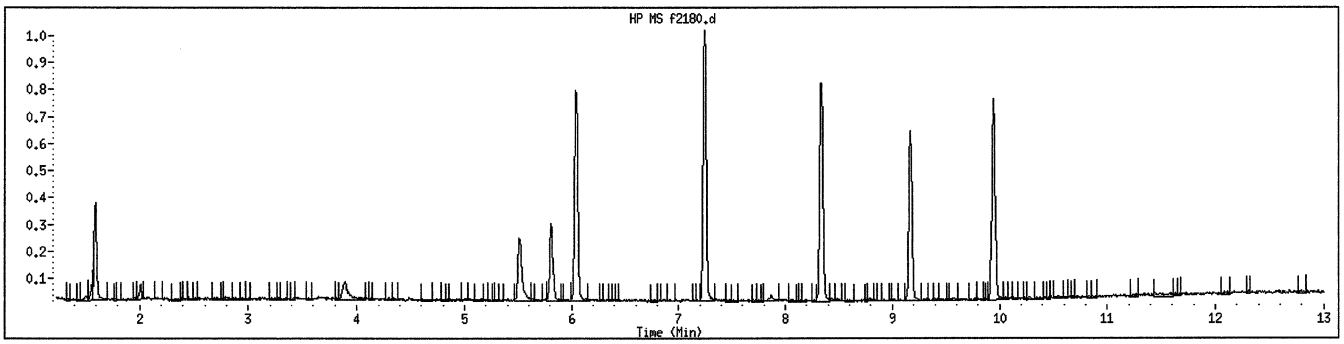
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2180.d
Report Date: 06/20/2005 10:24

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180510	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 10:07	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180510*86-EB-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-TB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170511

Level: (low/med) LOW Lab File ID: 2050620/F2190

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1413

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-TB-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170511

Level: (low/med) LOW Lab File ID: 2050620/F2190

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1413

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2190.d
Lab Smp Id: 20506170511 Client Smp ID: 86-TB-Q2-05
Inj Date : 20-JUN-2005 14:13
Operator : KCB Inst ID: msv5.i
Smp Info : 20506170511*86-TB-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.517	5.519	(0.913)	207836	56.9348	56.9	2054
$ 45 1,2-Dichloroethane-d4	67	5.816	5.819	(0.962)	110200	57.0105	57.0	
* 47 FLUOROBENZENE	96	6.044	6.048	(1.000)	744327	50.0000		
$ 60 Toluene-d8	98	7.250	7.245	(0.869)	713787	53.2964	53.3	
* 70 CHLOROBENZENE-d5	82	8.339	8.343	(1.000)	300182	50.0000		
$ 80 Bromofluorobenzene	174	9.171	9.172	(1.100)	227200	53.8392	53.8	
* 99 1,4-DICHLOROBENZENE-D4	152	9.945	9.944	(1.000)	265820	50.0000		

Data File: /var/chem/msv5.i/2050620.s.b/f2190.d

Date : 20-JUN-2005 14:13

Client ID: 86-TB-Q2-05

Sample Info: 205061705 11*86-TB-Q2-05

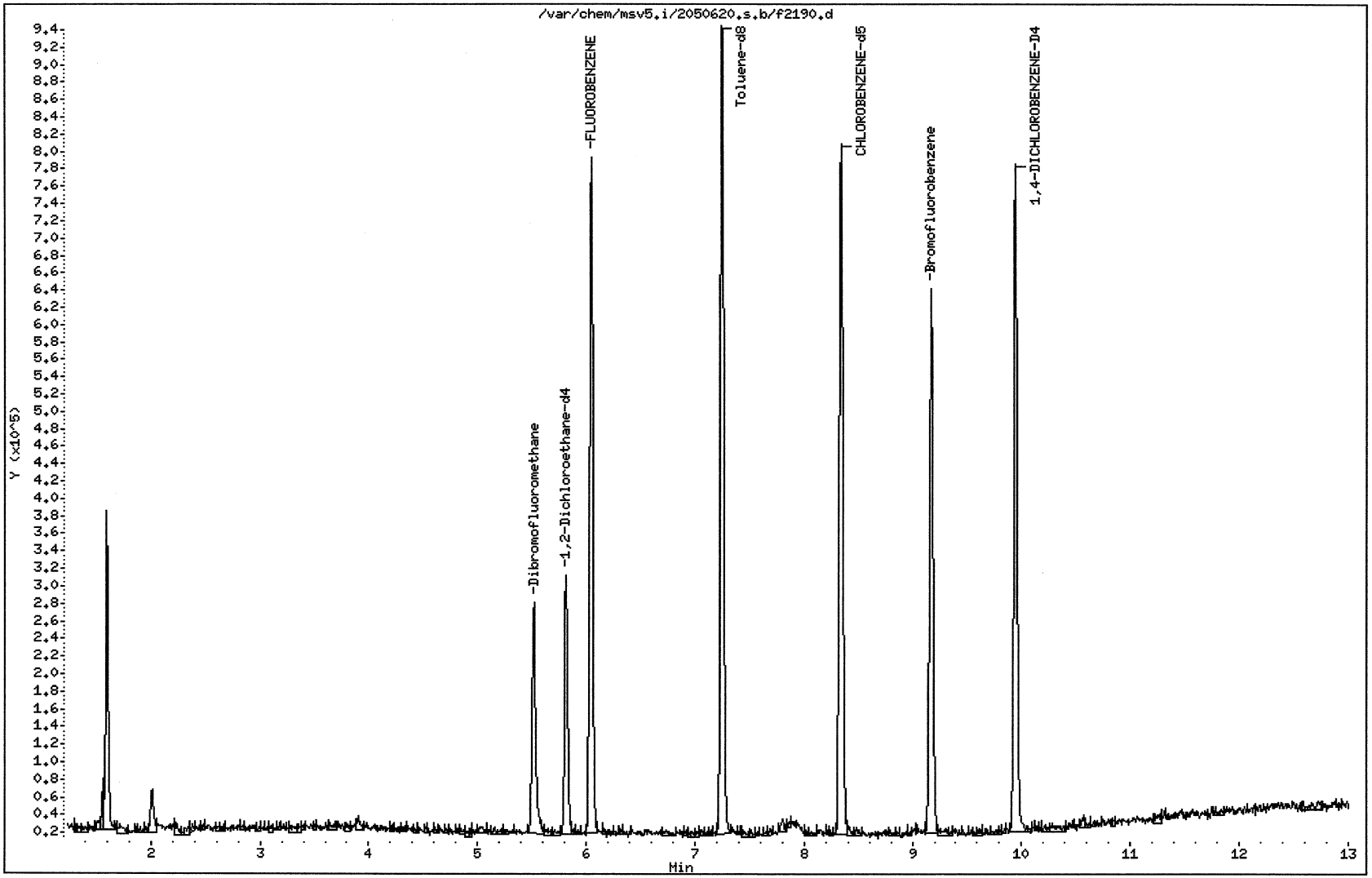
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv5.i

Operator: KCB

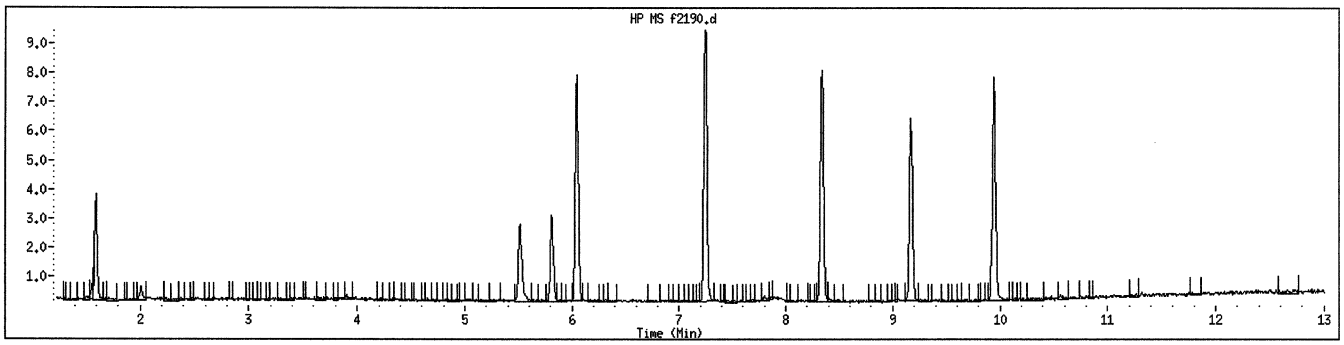
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2190.d
Report Date: 06/20/2005 14:39

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506170511	SampleType	: SAMPLE
Injection Date	: 20-JUN-2005 14:13	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506170511*86-TB-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Instrument ID: MSV5 Calibration Date 1: 06/13/05 Time 1: 1204

GC Column: DB-624-30M ID: .53 (mm) Calibration Date 2: 06/13/05 Time 2: 1431

Heated Purge: (Y/N) N Method: SW-846 8260

Analytical Batch: 293590

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1207

Level 7: 1208 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	0.104	0.073	0.072	0.072	0.075			0.082		0.079			15.61	A
Acrolein	0.017	0.019	0.022	0.023	0.025			0.021		0.021			13.29	A
Acrylonitrile	0.102	0.115	0.113	0.112	0.111			0.114		0.111			4.385	A
Bromochloromethane	0.141	0.143	0.146	0.139	0.147		0.119	0.138		0.139			6.805	A
Bromodichloromethane	0.285	0.304	0.318	0.308	0.315		0.290	0.285		0.301			4.629	A
Bromoform	0.313	0.414	0.436	0.456	0.468			0.389		0.412			13.65	A
Bromomethane	0.276	0.258	0.228	0.208	0.207		0.280	0.242		0.243			12.43	A
Carbon disulfide	0.717	0.720	0.718	0.659	0.696		0.746	0.757		0.716			4.476	A
Carbon tetrachloride	0.252	0.254	0.256	0.234	0.243		0.222	0.254		0.245			5.180	A
Chloroethane	0.157	0.163	0.161	0.149	0.156		0.110	0.152		0.150			11.96	A
m,p-Xylene	1.213	1.200	1.149	1.051	1.027		1.336	1.153		1.161			8.957	A
Chloroform	0.368	0.375	0.382	0.359	0.377		0.329	0.390		0.369			5.479	A
Chloromethane	0.360	0.375	0.371	0.316	0.340		0.332	0.378		0.353			6.747	A
Dibromochloromethane	0.532	0.631	0.634	0.654	0.667		0.441	0.584		0.592			13.61	A
Dibromomethane	0.179	0.186	0.191	0.181	0.188		0.182	0.190		0.185			2.506	A
Dichlorodifluoromethane	0.215	0.248	0.240	0.218	0.214		0.206	0.256		0.228			8.455	A
1,1-Dichloroethane	0.405	0.427	0.424	0.392	0.409		0.444	0.361		0.409			6.608	A
1,2-Dichloroethane	0.296	0.283	0.296	0.280	0.285		0.270	0.310		0.289			4.532	A
cis-1,2-Dichloroethene	0.391	0.404	0.406	0.371	0.386		0.346	0.401		0.386			5.560	A

FIT = %RSD For Average Curve And Calibration Coefficent For Linear And Quadratic

$\overline{RF}$ = Mean Response Factor For Average Curve

m,b = Slope and Intercept For Linear Curve

A,B,C = Coefficents For Quadratic Curve

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Instrument ID: MSV5 Calibration Date 1: 06/13/05 Time 1: 1204

GC Column: DB-624-30M ID: .53 (mm) Calibration Date 2: 06/13/05 Time 2: 1431

Heated Purge: (Y/N) N Method: SW-846 8260

Analytical Batch: 293590

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1207

Level 7: 1208 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
trans-1,2-Dichloroethene	0.343	0.356	0.356	0.324	0.330		0.377	0.366		0.350			5.424	A
Methylene chloride	39370	115171	301396	581972			12501	62794		0.339	-0.021		0.999	L
1,2-Dichloropropane	0.281	0.299	0.296	0.288	0.294		0.324	0.297		0.297			4.515	A
cis-1,3-Dichloropropene	0.419	0.429	0.457	0.436	0.446		0.360	0.448		0.428			7.581	A
trans-1,3-Dichloropropene	0.848	0.930	0.923	0.943	0.938		0.789	0.878		0.893			6.416	A
Ethylbenzene	0.986	0.983	0.934	0.857	0.867		1.072	0.948		0.949			7.835	A
2-Hexanone	0.401	0.501	0.471	0.521	0.494			0.432		0.470			9.709	A
Isopropylbenzene (Cumene)	3.008	2.860	2.699	2.439	2.361		3.144	2.769		2.754			10.32	A
2-Butanone	0.139	0.164	0.138	0.151	0.151		0.278	0.153		0.168			29.46	A
Methyl iodide	0.341	0.341	0.344	0.325	0.343		0.279	0.337		0.330			7.118	A
4-Methyl-2-pentanone	0.246	0.325	0.334	0.311	0.325		0.263	0.301		0.301			11.23	A
n-Propylbenzene	4.124	3.954	3.879	3.507	3.362		4.697	3.917		3.920			11.07	A
Styrene	1.904	2.007	1.900	1.835	1.802		2.052	1.949		1.921			4.641	A
Tetrachloroethene	0.552	0.533	0.511	0.484	0.491		0.476	0.530		0.511			5.556	A
1,1,1,2-Tetrachloroethane	0.532	0.550	0.549	0.541	0.561			0.541		0.546			1.839	A
1,1,2,2-Tetrachloroethane	0.805	0.900	0.926	0.911	0.917		0.679	0.868		0.858			10.40	A
1,2,4-Trichlorobenzene	0.935	0.817	0.873	0.845	0.857		1.029	0.865		0.889			8.058	A
1,1,1-Trichloroethane	0.252	0.287	0.297	0.271	0.274		0.324	0.313		0.288			8.661	A
1,1,2-Trichloroethane	0.574	0.583	0.581	0.590	0.576		0.535	0.617		0.580			4.231	A

FIT = %RSD For Average Curve And Calibration Coefficent For Linear And Quadratic

$\overline{RF}$ = Mean Response Factor For Average Curve

m,b = Slope and Intercept For Linear Curve

A,B,C = Coefficents For Quadratic Curve

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Instrument ID: MSV5

Calibration Date 1: 06/13/05 Time 1: 1204

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 06/13/05 Time 2: 1431

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 293590

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1207

Level 7: 1208 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorofluoromethane	15219	67812	205843	368365	760073		2800	34507		0.233	0.030		0.998	L
1,2,3-Trichloropropane	29361	130332	347023	656805	1270657		4086	64220		1.052	0.006		0.999	L
1,2,4-Trimethylbenzene	2.644	2.567	2.564	2.372	2.317		3.261	2.501		2.604			11.97	A
1,3,5-Trimethylbenzene	2.593	2.558	2.534	2.356	2.296		2.979	2.511		2.547			8.619	A
Vinyl chloride	0.333	0.314	0.329	0.291	0.295		0.277	0.331		0.310			7.241	A
o-Xylene	1.123	1.137	1.118	1.049	1.045		1.192	1.144		1.116			4.714	A
1,2-Dibromo-3-chloropropane	0.138	0.158	0.161	0.170	0.166		0.00	0.138		0.155			8.950	A
1,2-Dibromoethane	0.659	0.707	0.676	0.682	0.676		0.567	0.670		0.662			6.710	A
Vinyl acetate	0.408	0.484	0.499	0.505	0.504			0.461		0.477			7.872	A
tert-Butyl methyl ether (MTBE)	0.604	0.597	0.614	0.605	0.585		0.567	0.613		0.598			2.812	A
1,2-Dichloroethene	0.367	0.380	0.381	0.348	0.358		0.362	0.384		0.368			3.699	A
4-Isopropyltoluene	2.937	2.780	2.724	2.516	2.454		3.233	2.835		2.783			9.415	A
Xylene (total)	1.183	1.179	1.139	1.050	1.033		1.288	1.150		1.146			7.518	A
Methylcyclohexane	0.456	0.443	0.440	0.394	0.405		0.450	0.438		0.432			5.436	A
n-Hexane	0.409	0.393	0.402	0.365	0.356			0.411		0.389			5.953	A
trans-1,4-Dichloro-2-butene	3794	24659	65773	128100	255505			11786		0.212	0.042		0.999	L
Cyclohexane	0.496	0.478	0.468	0.417	0.412		0.473	0.455		0.457			6.881	A
2,2-Dichloropropane	0.325	0.314	0.311	0.283	0.288		0.307	0.316		0.306			5.052	A
Methyl Acetate	0.170	0.177	0.183	0.184	0.189			0.189		0.182			4.035	A

FIT = %RSD For Average Curve And Calibration Coefficent For Linear And Quadratic

$\overline{RF}$ = Mean Response Factor For Average Curve

m,b = Slope and Intercept For Linear Curve

A,B,C = Coefficents For Quadratic Curve

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Instrument ID: MSV5

Calibration Date 1: 06/13/05 Time 1: 1204

GC Column: DB-624-30M ID: .53 (mm)

Calibration Date 2: 06/13/05 Time 2: 1431

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 293590

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203

Level 4: 1204 Level 5: 1205 Level 6: 1207

Level 7: 1208 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorotrifluoroethane	0.206	0.206	0.207	0.184	0.186			0.221		0.202			6.991	A
1,1-Dichloropropene	0.327	0.344	0.342	0.317	0.317		0.359	0.340		0.335			4.675	A
2-Chloroethylvinyl ether	650	68519	199146	376024	771859		3201	37958		0.237	0.049		0.998	L
1,3-Dichloropropane	1.051	1.082	1.051	1.065	1.018		1.044	1.086		1.057			2.205	A
Bromobenzene	1.796	1.759	1.727	1.662	1.660		1.881	1.718		1.743			4.468	A
2-Chlorotoluene	2.374	2.468	2.364	2.227	2.139		2.696	2.356		2.375			7.479	A
4-Chlorotoluene	2.299	2.351	2.284	2.128	2.119		2.559	2.186		2.275			6.737	A
tert-Butylbenzene	1.577	1.628	1.607	1.465	1.512		1.242	1.688		1.531			9.621	A
sec-Butylbenzene	3.588	3.562	3.482	3.141	3.055		4.166	3.607		3.514			10.34	A
1,3-Dichlorobenzene	1.577	1.502	1.497	1.444	1.392		1.721	1.576		1.530			7.018	A
1,4-Dichlorobenzene	1.640	1.540	1.557	1.437	1.457		1.799	1.512		1.563			7.912	A
n-Butylbenzene	2.816	2.701	2.627	2.408	2.324		3.388	2.649		2.702			12.82	A
1,2-Dichlorobenzene	1.376	1.359	1.331	1.311	1.290		1.733	1.423		1.403			10.82	A
Hexachlorobutadiene	0.426	0.452	0.439	0.417	0.442		0.343	0.437		0.422			8.677	A
Naphthalene	2.071	2.151	2.185	2.246	2.126		2.673	2.129		2.226			9.194	A
1,2,3-Trichlorobenzene	0.829	0.797	0.817	0.804	0.802		1.073	0.823		0.849			11.72	A
1-Bromo-2-chloroethane	0.450	0.482	0.471	0.470	0.452		0.609	0.466		0.486			11.41	A
1-Chlorohexane	1.030	1.083	1.019	0.910	0.922		1.106	1.081		1.021			7.697	A
1,3-Dichloropropylene	0.384	0.407	0.427	0.413	0.425		0.342	0.408		0.401			7.316	A

FIT = %RSD For Average Curve And Calibration Coefficent For Linear And Quadratic

$\overline{RF}$ = Mean Response Factor For Average Curve

m,b = Slope and Intercept For Linear Curve

A,B,C = Coefficents For Quadratic Curve

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Instrument ID: MSV5
Calibration Date 1: 06/13/05 Time 1: 1204
GC Column: DB-624-30M ID: .53 (mm)
Calibration Date 2: 06/13/05 Time 2: 1431
Heated Purge: (Y/N) N
Method: SW-846 8260
Analytical Batch: 293590

Lab File ID: Level 1: 1201 Level 2: 1202 Level 3: 1203
Level 4: 1204 Level 5: 1205 Level 6: 1207
Level 7: 1208 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,1-Dichloroethene	0.157	0.177	0.184	0.155	0.170			0.188		0.172			8.056	A
Benzene	1.082	1.021	1.029	0.947	0.930		1.120	1.061		1.027			6.721	A
Trichloroethene	0.275	0.277	0.268	0.245	0.254		0.324	0.282		0.275			9.131	A
Toluene	2.880	2.708	2.633	2.421	2.341		3.153	2.672		2.687			10.17	A
Chlorobenzene	1.860	1.874	1.747	1.648	1.633		1.818	1.788		1.767			5.442	A
4-Bromofluorobenzene	0.717	0.712	0.697	0.680	0.669			0.742		0.703			3.746	A
Dibromofluoromethane	0.228	0.245	0.254	0.238	0.251			0.256		0.245			4.345	A
Toluene-d8	2.308	2.277	2.162	2.031	1.969		2.605	2.263		2.231			9.366	A
1,2-Dichloroethane-d4	0.118	0.129	0.138	0.132	0.129		0.121	0.142		0.130			6.627	A

FIT = %RSD For Average Curve And Calibration Coefficent For Linear And Quadratic

$\overline{RF}$ = Mean Response Factor For Average Curve
m,b = Slope and Intercept For Linear Curve
A,B,C = Coefficents For Quadratic Curve

FORM V I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1892.d
Lab Smp Id: 1000 Client Smp ID: V5BFB
Inj Date : 13-JUN-2005 11:11
Operator : DLB Inst ID: msv5.i
Smp Info : 1000*V5BFB
Misc Info : MSV~6400~*1*RSS
Comment :
Method : /var/chem/msv5.i/2050613.s.b/bfb1.m
Meth Date : 17-May-2005 10:15 mef Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
VI	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.184	9.611	(0.000)	95	150789			100.00- 100.00	100.00
9.184	9.611	(0.000)	50	25640			15.00- 40.00	17.00
9.184	9.611	(0.000)	75	58802			30.00- 60.00	39.00
9.184	9.611	(0.000)	96	9233			5.00- 9.00	6.12
9.184	9.611	(0.000)	173	0			0.00- 2.00	0.00
9.184	9.611	(0.000)	174	125128			50.00- 120.00	82.98
9.184	9.611	(0.000)	175	9689			5.00- 9.00	7.74
9.184	9.611	(0.000)	176	124488			95.00- 101.00	99.49
9.184	9.611	(0.000)	177	8165			5.00- 9.00	6.56

Data File: /var/chem/msv5.i/2050613.s.b/f1892.d

Date : 13-JUN-2005 11:11

Client ID: V5BFB

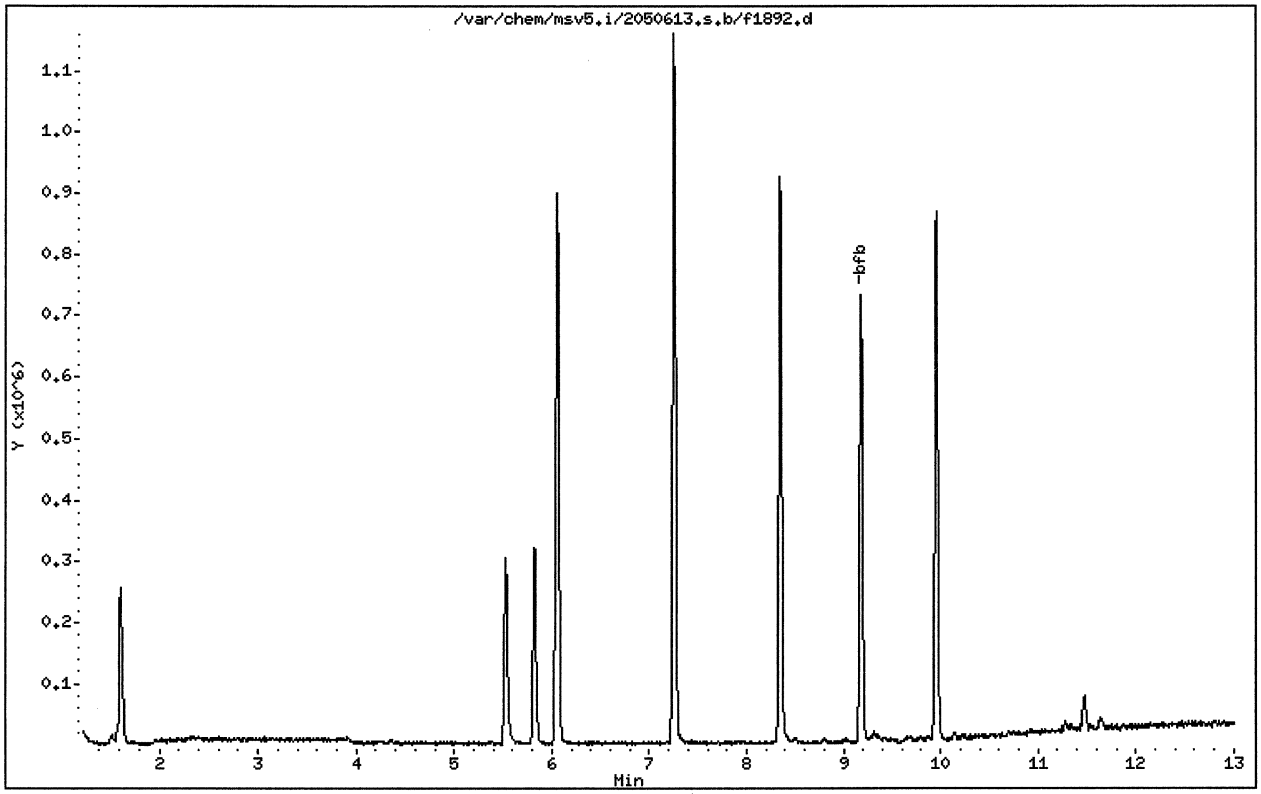
Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: DLB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv5.i/2050613.s.b/f1892.d

Date : 13-JUN-2005 11:11

Client ID: V5BFB

Instrument: msv5.i

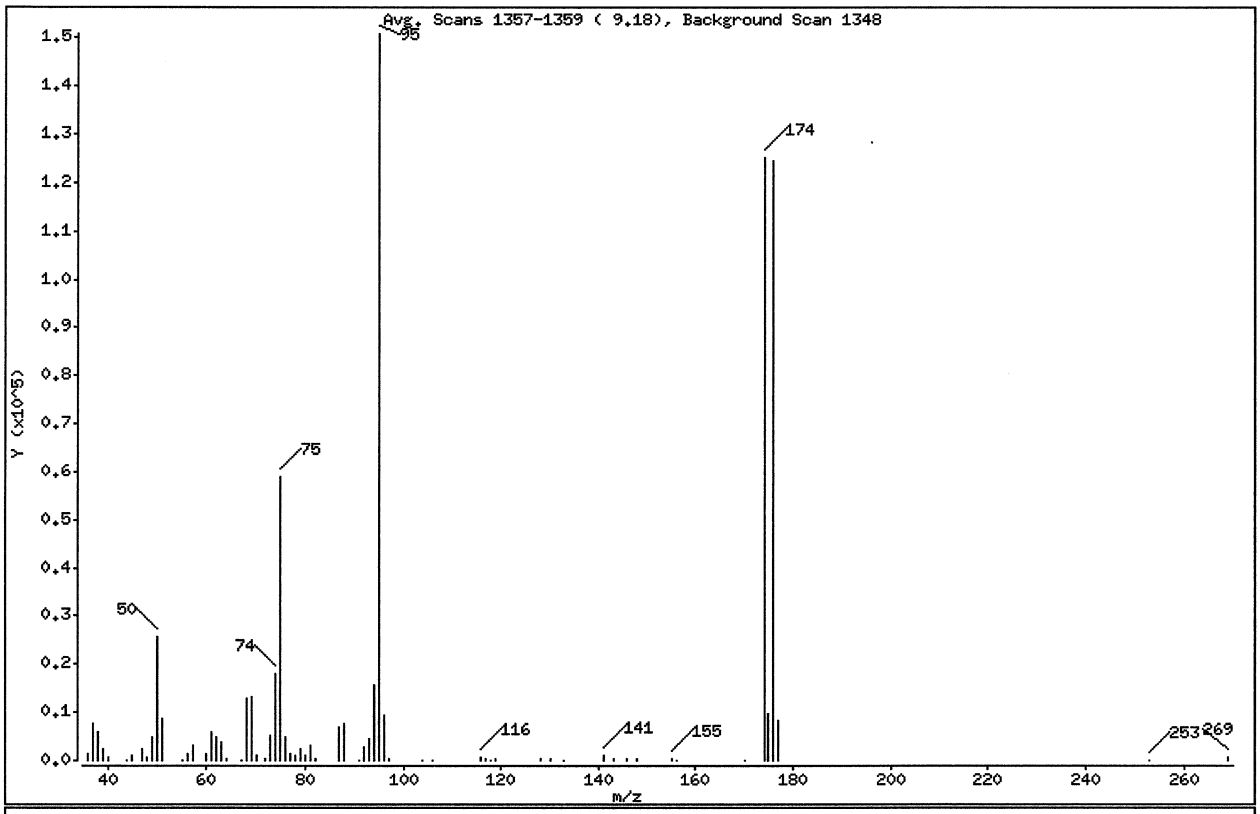
Sample Info: 1000*V5BFB

Operator: DLB

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.00
75	30.00 - 60.00% of mass 95	39.00
96	5.00 - 9.00% of mass 95	6.12
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	82.98
175	5.00 - 9.00% of mass 174	6.43 (7.74)
176	95.00 - 101.00% of mass 174	82.56 (99.49)
177	5.00 - 9.00% of mass 176	5.41 (6.56)

Data File: /var/chem/msv5.i/2050613.s.b/f1892.d

Date : 13-JUN-2005 11:11

Client ID: V5BFB

Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: DLB

Column phase: DB-624-30M

Column diameter: 0.53

Data File: f1892.d

Spectrum: Avg. Scans 1357-1359 (9.18), Background Scan 1348

Location of Maximum: 95.00

Number of points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1373	62.00	4923	82.00	379	130.00	441
37.00	7692	63.00	3884	87.00	6984	133.00	151
38.00	5927	64.00	343	88.00	7797	141.00	904
39.00	2406	67.00	137	91.00	172	143.00	487
40.00	599	68.00	12916	92.00	2696	146.00	191
44.00	44	69.00	13208	93.00	4626	148.00	191
45.00	902	70.00	980	94.00	15760	155.00	474
47.00	2469	72.00	438	95.00	150784	156.00	148
48.00	733	73.00	5219	96.00	9233	170.00	147
49.00	4766	74.00	18192	97.00	398	174.00	125128
50.00	25640	75.00	58800	104.00	156	175.00	9689
51.00	8559	76.00	4751	106.00	151	176.00	124488
55.00	147	77.00	1342	116.00	600	177.00	8165
56.00	1292	78.00	998	117.00	342	253.00	172
57.00	3100	79.00	2492	118.00	156	269.00	572
60.00	1243	80.00	1045	119.00	408		
61.00	6009	81.00	3143	128.00	302		

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Data file : /var/chem/msv5.i/2050613.s.b/f1893.d
Lab Smp Id: 1207 Client Smp ID: V5STD001
Inj Date : 13-JUN-2005 12:04
Operator : JCK Inst ID: msv5.i
Smp Info : 1207*V5STD001*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:34 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 12:04 Cal File: f1893.d
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.291)	3986	1.00000	0.902	
2 Chloromethane ++	50	1.970	1.970	(0.325)	6430	1.00000	0.940	
3 Vinyl Chloride +	62	2.058	2.058	(0.340)	5357	1.00000	0.893	
5 Bromomethane	94	2.392	2.392	(0.395)	5420	1.00000	1.15	
6 Chloroethane	64	2.509	2.509	(0.414)	2139	1.00000	0.739	
7 Trichlorofluoromethane	101	2.761	2.761	(0.456)	2800	1.00000	2.12	
10 Acrolein	56	3.317	3.317	(0.548)	569	5.00000	1.39	
11 1,1,2Trichlotrifluoroethane	101	3.329	3.329	(0.550)	2914	1.00000	0.746	
12 1,1-Dichloroethene +	96	3.364	3.364	(0.555)	1482	1.00000	0.445	
14 Methyl Iodide	142	3.546	3.546	(0.585)	5400	1.00000	0.845	
15 Carbon Disulfide	76	3.575	3.575	(0.590)	14431	1.00000	1.04	
18 Methylene Chloride	49	3.920	3.920	(0.647)	12501	1.00000		(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.137	4.137	(0.683)	10982	1.00000	0.949	8097
	21 trans-1,2-Dichloroethene	61	4.166	4.166	(0.688)	7298	1.00000	1.08	
	22 Acrylonitrile	53	4.225	4.225	(0.698)	9916	5.00000	4.61	
	24 Hexane	57	4.365	4.365	(0.721)	9733	1.00000	1.29	0(M)
	27 1,1-Dichloroethane ++	63	4.588	4.588	(0.757)	8585	1.00000	1.09	(M)
	28 Vinyl Acetate	43	4.605	4.605	(0.760)	455	1.00000	0.0493	
	30 2,2-Dichloropropane	77	5.097	5.097	(0.841)	5940	1.00000	1.00	
	31 cis-1,2-Dichloroethene	61	5.120	5.120	(0.845)	6704	1.00000	0.896	
	32 2-Butanone	43	5.149	5.149	(0.850)	5382	1.00000	1.66	
	35 Bromochloromethane	128	5.337	5.337	(0.881)	2302	1.00000	0.855	
	36 Chloroform +	83	5.389	5.389	(0.890)	6362	1.00000	0.892	
	37 Cyclohexane	56	5.506	5.506	(0.909)	9155	1.00000	1.03	8589
$	38 Dibromofluoromethane	111	5.524	5.524	(0.912)	2577	1.00000	0.543	8468
	39 1,1,1-Trichloroethane	97	5.518	5.518	(0.911)	6272	1.00000	1.12	
	40 Carbon Tetrachloride	117	5.629	5.629	(0.929)	4304	1.00000	0.907	
	41 1,1-Dichloropropene	75	5.659	5.659	(0.934)	6958	1.00000	1.07	
M	42 Total 1,2-Dichloroethene	61				14002	2.00000	1.97	
	44 Benzene	78	5.823	5.823	(0.961)	21676	1.00000	1.09	
$	45 1,2-Dichloroethane-d4	67	5.823	5.823	(0.961)	2339	1.00000	0.931	
	46 1,2-Dichloroethane	62	5.881	5.881	(0.971)	5224	1.00000	0.935	(MH)
*	47 FLUOROBENZENE	96	6.057	6.057	(1.000)	967880	50.0000		
	49 Trichloroethene	130	6.338	6.338	(1.046)	6263	1.00000	1.18	
	50 Methyl Cyclohexane	83	6.444	6.444	(1.064)	8711	1.00000	1.04	8280
	51 1,2-Dichloropropane +	63	6.543	6.543	(1.080)	6274	1.00000	1.09	
	55 Dibromomethane	93	6.648	6.648	(1.098)	3522	1.00000	0.983	
	56 Bromodichloromethane	83	6.760	6.760	(1.116)	5614	1.00000	0.965	
	57 2-Chloroethyl vinyl ether	63	6.970	6.970	(1.151)	3201	1.00000	3.17	(H)
	58 cis-1,3-Dichloropropene	75	7.087	7.087	(1.170)	6969	1.00000	0.841	
	59 4-methyl-2-pentanone	43	7.187	7.187	(1.187)	5085	1.00000	0.874	(M)
$	60 Toluene-d8	98	7.263	7.263	(0.870)	20759	1.00000	1.17	
	61 Toluene +	91	7.310	7.310	(0.876)	25131	1.00000	1.17	
	63 trans-1,3-Dichloropropene	75	7.509	7.509	(0.900)	6290	1.00000	0.884	
	64 1,1,2-Trichloroethane	97	7.649	7.649	(0.916)	4262	1.00000	0.923	
	65 Tetrachloroethene	164	7.702	7.702	(0.923)	3796	1.00000	0.932	
	66 1,3-Dichloropropane	76	7.790	7.790	(0.933)	8317	1.00000	0.988	
	68 Dibromochloromethane	129	7.931	7.931	(0.950)	3518	1.00000	0.746	
	69 1,2-Dibromoethane(EDB)	107	8.036	8.036	(0.963)	4520	1.00000	0.856	
*	70 CHLOROBENZENE-d5	82	8.346	8.346	(1.000)	398501	50.0000		
	71 Chlorobenzene ++	112	8.370	8.370	(1.003)	14488	1.00000	1.03	
	72 Ethylbenzene +	106	8.411	8.411	(1.008)	8543	1.00000	1.13	
	74 p,m-Xylene	106	8.487	8.487	(1.017)	21288	2.00000	2.30	
	75 o-Xylene	106	8.786	8.786	(1.053)	9503	1.00000	1.07	
	76 Styrene	104	8.810	8.810	(1.056)	16356	1.00000	1.07	
	77 Bromoform ++	173	8.979	8.979	(1.076)	1150	1.00000	0.350	
	78 Isopropylbenzene	105	9.032	9.032	(1.082)	25057	1.00000	1.14	
$	80 Bromofluorobenzene	174	9.184	9.184	(1.100)	6753	1.00000	1.21	
	81 1,1,2,2-Tetrachloroethane++	83	9.272	9.272	(0.931)	4687	1.00000	0.791	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
82 Bromobenzene	77	9.308	9.308	(0.935)	12989	1.00000	1.08	
84 trans-1,4-Dichloro-2-Butene	53	9.313	9.313	(0.935)	559	1.00000	0.440	
85 n-Propylbenzene	91	9.308	9.308	(0.935)	32441	1.00000	1.20	
86 1,2,3-Trichloropropane	75	9.319	9.319	(0.936)	4086	1.00000	0.624	
87 2-Chlorotoluene	91	9.413	9.413	(0.945)	18619	1.00000	1.14	
88 1,3,5-Trimethylbenzene	105	9.419	9.419	(0.946)	20571	1.00000	1.17	
89 4-Chlorotoluene	91	9.489	9.489	(0.953)	17676	1.00000	1.12	
91 tert-butylbenzene	91	9.642	9.642	(0.968)	8577	1.00000	0.811	
92 1,2,4-Trimethylbenzene	105	9.683	9.683	(0.972)	22523	1.00000	1.25	
96 sec-Butylbenzene	105	9.788	9.788	(0.983)	28770	1.00000	1.19	
97 p-Isopropyltoluene	119	9.864	9.864	(0.991)	22325	1.00000	1.16	
98 1,3-Dichlorobenzene	146	9.911	9.911	(0.995)	11884	1.00000	1.12	
* 99 1,4-DICHLOROBENZENE-D4	152	9.959	9.959	(1.000)	345318	50.0000		
100 1,4-Dichlorobenzene	146	9.970	9.970	(1.001)	12423	1.00000	1.15	
M 101 TOTAL XYLENE	106				30791	3.00000	3.37	
102 n-Butylbenzene	91	10.141	10.141	(1.018)	23396	1.00000	1.25	
103 1,2-Dichlorobenzene	146	10.229	10.229	(1.027)	11970	1.00000	1.24	
106 1,2,4-Trichlorobenzene	180	11.284	11.284	(1.133)	7110	1.00000	1.16	
107 Hexachlorobutadiene	225	11.331	11.331	(1.138)	2372	1.00000	0.813	
108 Naphthalene	128	11.472	11.472	(1.152)	18462	1.00000	1.20	
109 1,2,3-Trichlorobenzene	180	11.637	11.637	(1.169)	7412	1.00000	1.26	
140 1-Bromo-2-chloroethane	63	7.005	7.005	(1.157)	11785	1.00000	1.25	0(M)
154 1-Chlorohexane	91	8.305	8.305	(0.995)	8818	1.00000	1.08	8540
M 139 1-3 Dichloropropene-Total	100				13259	2.00000	1.73	0

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050613.s.b/f1893.d

Date : 13-JUN-2005 12:04

Client ID: V5STD001

Instrument: msv5.i

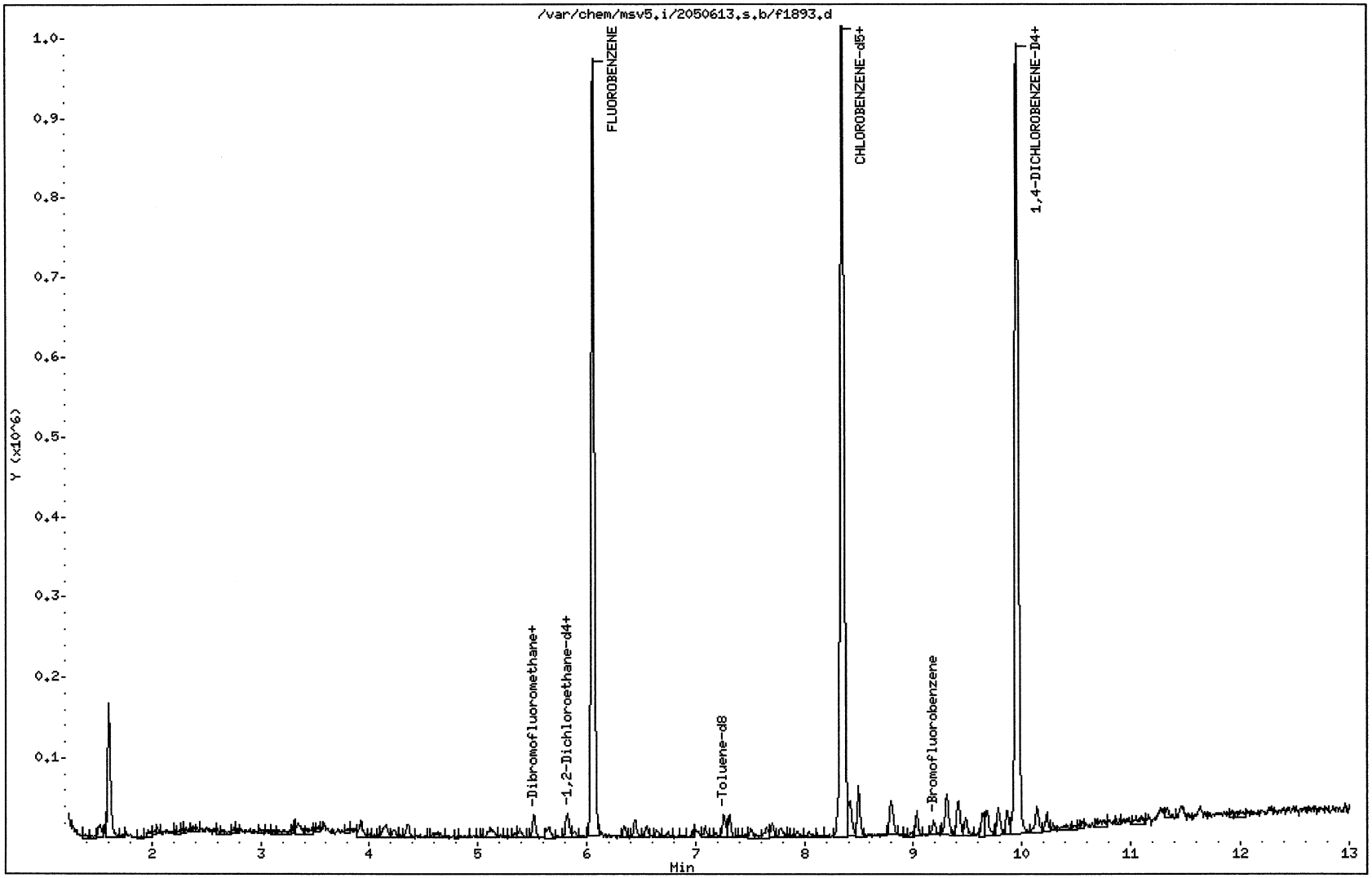
Sample Info: 1207*V5STD001*5-30-4

Purge Volume: 5.0

Operator: JCK

Column phase: DB-624-30M

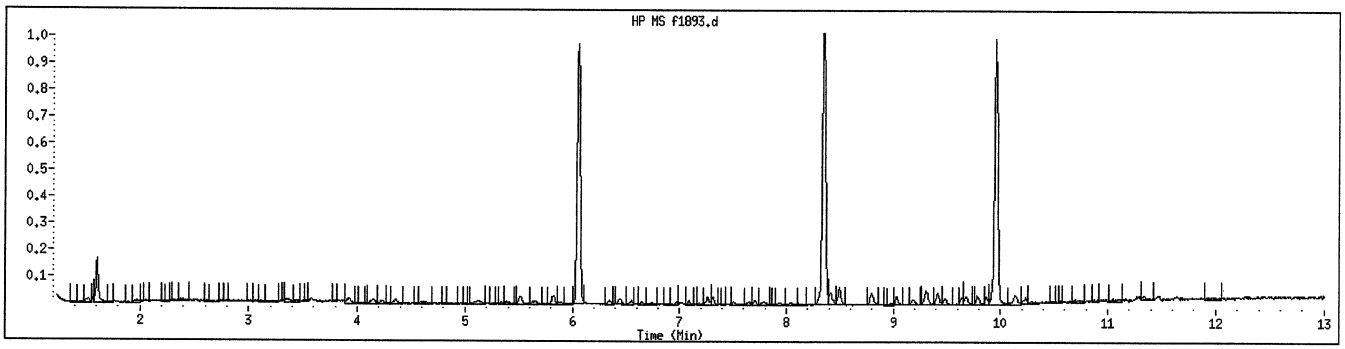
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050613.s.b/f1893.d
Report Date: 06/13/2005 20:34

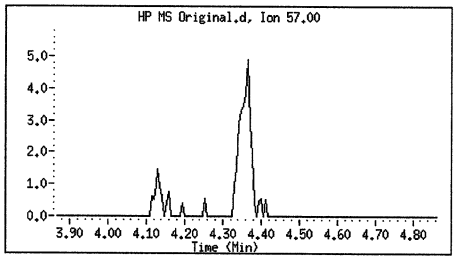
MANUAL INTEGRATION GRAPHIC REPORT

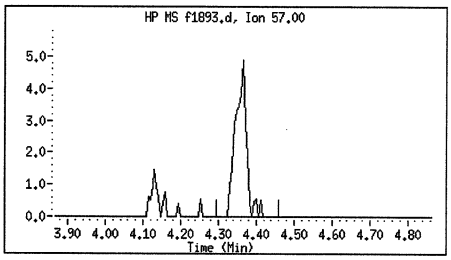
Lab ID	: 1207	SampleType	: CALIB_7
Injection Date	: 13-JUN-2005 12:04	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1207*V5STD001*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



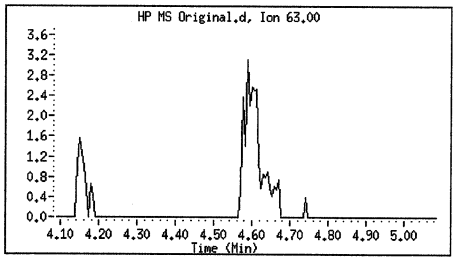
Original Final

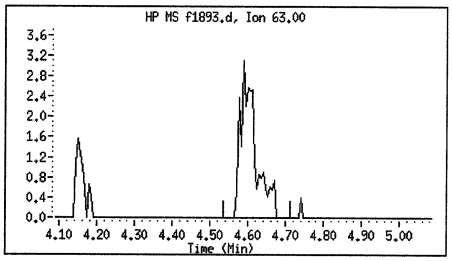
24 Hexane CAS#: 110-54-3





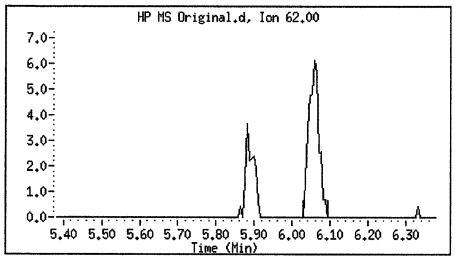
27 1,1-Dichloroethane ++ CAS#: 75-34-3

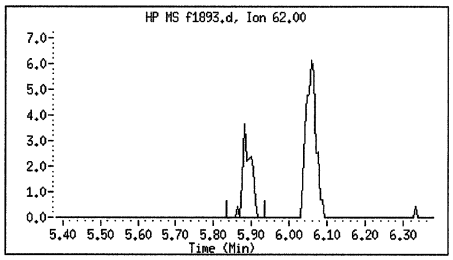




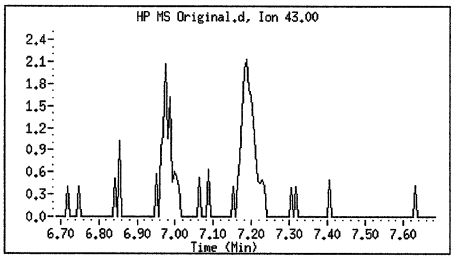
Original Final

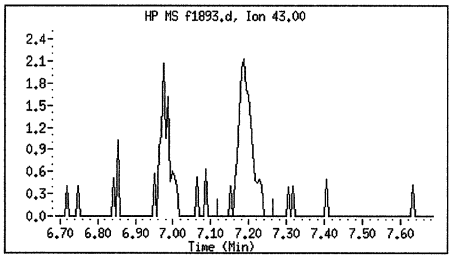
46 1,2-Dichloroethane CAS#: 107-06-2



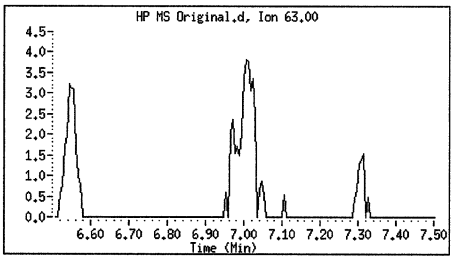


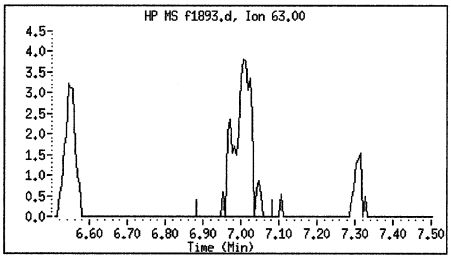
59 4-methyl-2-pentanone CAS#: 108-10-1





140 1-Bromo-2-chloroethane CAS#: 107-04-0





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1895.d
Lab Smp Id: 1201 Client Smp ID: V5STD005
Inj Date : 13-JUN-2005 12:29
Operator : JCK Inst ID: msv5.i
Smp Info : 1201*V5STD005*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:34 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 12:29 Cal File: f1895.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.292)	19050	5.00000	4.72	
2 Chloromethane ++	50	1.964	1.964	(0.324)	31875	5.00000	5.10	
3 Vinyl Chloride +	62	2.057	2.057	(0.340)	29436	5.00000	5.37	
5 Bromomethane	94	2.391	2.391	(0.395)	24436	5.00000	5.69	
6 Chloroethane	64	2.509	2.509	(0.414)	13854	5.00000	5.24	
7 Trichlorofluoromethane	101	2.749	2.749	(0.454)	15219	5.00000	5.20	
10 Acrolein	56	3.305	3.305	(0.546)	7526	25.0000	20.2	
11 1,1,2Trichlotrifluoroethane	101	3.329	3.329	(0.550)	18205	5.00000	5.10	
12 1,1-Dichloroethene +	96	3.358	3.358	(0.555)	13906	5.00000	4.57	
13 Acetone	43	3.475	3.475	(0.574)	9166	5.00000	6.52	
14 Methyl Iodide	142	3.540	3.540	(0.585)	30205	5.00000	5.17	
15 Carbon Disulfide	76	3.581	3.581	(0.592)	63453	5.00000	5.01	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.797	3.797	(0.627)	15080	5.00000	4.68	5618
	18 Methylene Chloride	49	3.926	3.926	(0.649)	39370	5.00000	3.29	
	20 MTBE	73	4.125	4.125	(0.682)	53403	5.00000	5.05	7995
	21 trans-1,2-Dichloroethene	61	4.161	4.161	(0.687)	30367	5.00000	4.90	
	22 Acrylonitrile	53	4.225	4.225	(0.698)	44906	25.0000	22.9	
	24 Hexane	57	4.348	4.348	(0.718)	36142	5.00000	5.25	0(M)
	27 1,1-Dichloroethane ++	63	4.600	4.600	(0.760)	35798	5.00000	4.95	
	28 Vinyl Acetate	43	4.623	4.623	(0.764)	36108	5.00000	4.28	
	30 2,2-Dichloropropane	77	5.091	5.091	(0.841)	28794	5.00000	5.31	
	31 cis-1,2-Dichloroethene	61	5.126	5.126	(0.847)	34605	5.00000	5.06	
	32 2-Butanone	43	5.150	5.150	(0.851)	12272	5.00000	4.14	
	35 Bromochloromethane	128	5.331	5.331	(0.881)	12489	5.00000	5.08	
	36 Chloroform +	83	5.390	5.390	(0.891)	32549	5.00000	4.99	
	37 Cyclohexane	56	5.507	5.507	(0.910)	43847	5.00000	5.42	8774
$	38 Dibromofluoromethane	111	5.525	5.525	(0.913)	20191	5.00000	4.65	8805
	39 1,1,1-Trichloroethane	97	5.519	5.519	(0.912)	22330	5.00000	4.38	
	40 Carbon Tetrachloride	117	5.630	5.630	(0.930)	22312	5.00000	5.14	
	41 1,1-Dichloropropene	75	5.654	5.654	(0.934)	28911	5.00000	4.88	
M	42 Total 1,2-Dichloroethene	61				64972	10.0000	9.96	
	44 Benzene	78	5.824	5.824	(0.962)	95688	5.00000	5.27	
$	45 1,2-Dichloroethane-d4	67	5.830	5.830	(0.963)	10429	5.00000	4.54	
	46 1,2-Dichloroethane	62	5.888	5.888	(0.973)	26164	5.00000	5.13	(H)
*	47 FLUOROBENZENE	96	6.052	6.052	(1.000)	884634	50.0000		
	49 Trichloroethene	130	6.345	6.345	(1.048)	24370	5.00000	5.01	
	50 Methyl Cyclohexane	83	6.445	6.445	(1.065)	40359	5.00000	5.28	8684
	51 1,2-Dichloropropane +	63	6.550	6.550	(1.082)	24865	5.00000	4.73	
	55 Dibromomethane	93	6.644	6.644	(1.098)	15825	5.00000	4.83	
	56 Bromodichloromethane	83	6.749	6.749	(1.115)	25247	5.00000	4.75	
	57 2-Chloroethyl vinyl ether	63	6.966	6.966	(1.151)	650	5.00000	2.62	(M)
	58 cis-1,3-Dichloropropene	75	7.095	7.095	(1.172)	37098	5.00000	4.90	
	59 4-methyl-2-pentanone	43	7.177	7.177	(1.186)	21739	5.00000	4.09	(M)
$	60 Toluene-d8	98	7.265	7.265	(0.870)	84069	5.00000	5.17	
	61 Toluene +	91	7.312	7.312	(0.876)	104901	5.00000	5.36	
	63 trans-1,3-Dichloropropene	75	7.517	7.517	(0.900)	30898	5.00000	4.75	
	64 1,1,2-Trichloroethane	97	7.651	7.651	(0.916)	20900	5.00000	4.95	
	65 Tetrachloroethene	164	7.710	7.710	(0.924)	20095	5.00000	5.40	
	66 1,3-Dichloropropane	76	7.780	7.780	(0.932)	38287	5.00000	4.97	
	67 2-Hexanone	43	7.804	7.804	(0.935)	14591	5.00000	4.26	
	68 Dibromochloromethane	129	7.927	7.927	(0.949)	19393	5.00000	4.50	
	69 1,2-Dibromoethane(EDB)	107	8.038	8.038	(0.963)	23997	5.00000	4.97	
*	70 CHLOROBENZENE-d5	82	8.349	8.349	(1.000)	364198	50.0000		
	71 Chlorobenzene ++	112	8.378	8.378	(1.004)	67732	5.00000	5.26	
	72 Ethylbenzene +	106	8.414	8.414	(1.008)	35917	5.00000	5.19	
	73 1,1,1,2-Tetrachloroethane	133	8.431	8.431	(1.010)	19378	5.00000	4.88	
	74 p,m-Xylene	106	8.496	8.496	(1.018)	88345	10.0000	10.4	
	75 o-Xylene	106	8.795	8.795	(1.053)	40916	5.00000	5.04	
	76 Styrene	104	8.812	8.812	(1.056)	69341	5.00000	4.95	

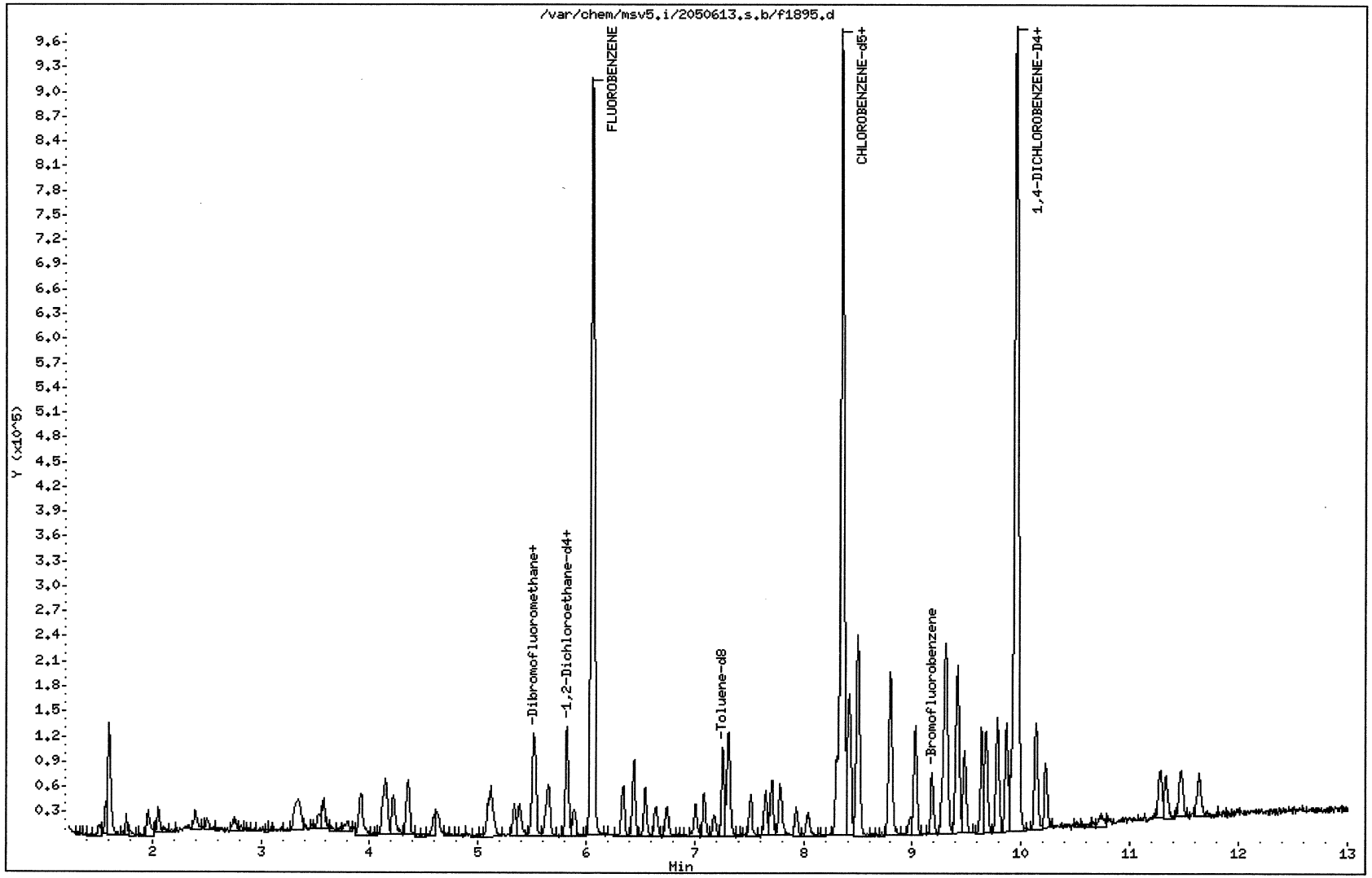
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.976	8.976	(1.075)	11409	5.00000	3.80	
78 Isopropylbenzene	105	9.029	9.029	(1.081)	109554	5.00000	5.46	
$ 80 Bromofluorobenzene	174	9.188	9.188	(1.100)	26097	5.00000	5.10	
81 1,1,2,2-Tetrachloroethane++	83	9.276	9.276	(0.932)	26533	5.00000	4.69	
82 Bromobenzene	77	9.299	9.299	(0.934)	59221	5.00000	5.15	
84 trans-1,4-Dichloro-2-Butene	53	9.317	9.317	(0.936)	3794	5.00000	3.13	
85 n-Propylbenzene	91	9.311	9.311	(0.935)	135983	5.00000	5.26	
86 1,2,3-Trichloropropane	75	9.323	9.323	(0.936)	29361	5.00000	4.70	
87 2-Chlorotoluene	91	9.411	9.411	(0.945)	78290	5.00000	5.00	
88 1,3,5-Trimethylbenzene	105	9.423	9.423	(0.946)	85514	5.00000	5.09	
89 4-Chlorotoluene	91	9.481	9.481	(0.952)	75822	5.00000	5.05	
91 tert-butylbenzene	91	9.646	9.646	(0.969)	52005	5.00000	5.15	
92 1,2,4-Trimethylbenzene	105	9.681	9.681	(0.972)	87180	5.00000	5.08	
96 sec-Butylbenzene	105	9.787	9.787	(0.983)	118335	5.00000	5.11	
97 p-Isopropyltoluene	119	9.869	9.869	(0.991)	96866	5.00000	5.28	
98 1,3-Dichlorobenzene	146	9.916	9.916	(0.996)	52004	5.00000	5.15	
* 99 1,4-DICHLOROBENZENE-D4	152	9.957	9.957	(1.000)	329769	50.0000		
100 1,4-Dichlorobenzene	146	9.969	9.969	(1.001)	54071	5.00000	5.25	
M 101 TOTAL XYLENE	106				129261	15.0000	15.5	
102 n-Butylbenzene	91	10.139	10.139	(1.018)	92857	5.00000	5.21	
103 1,2-Dichlorobenzene	146	10.227	10.227	(1.027)	45367	5.00000	4.90	
104 1,2-Dibromo-3-Chloropropane	157	10.744	10.744	(1.079)	4555	5.00000	4.45	
106 1,2,4-Trichlorobenzene	180	11.278	11.278	(1.133)	30825	5.00000	5.26	
107 Hexachlorobutadiene	225	11.331	11.331	(1.138)	14047	5.00000	5.04	
108 Naphthalene	128	11.472	11.472	(1.152)	68298	5.00000	4.65	
109 1,2,3-Trichlorobenzene	180	11.642	11.642	(1.169)	27330	5.00000	4.88	
140 1-Bromo-2-chloroethane	63	7.007	7.007	(1.158)	39798	5.00000	4.63	8048
154 1-Chlorohexane	91	8.302	8.302	(0.994)	37510	5.00000	5.04	9466
M 139 1-3 Dichloropropene-Total	100				67996	10.0000	9.65	0

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050613.s.b/f1895.d
Date : 13-JUN-2005 12:29
Client ID: V5STD005
Sample Info: 1201*V5STD005*5-30-4
Purge Volume: 5.0
Column phase: DB-624-30M

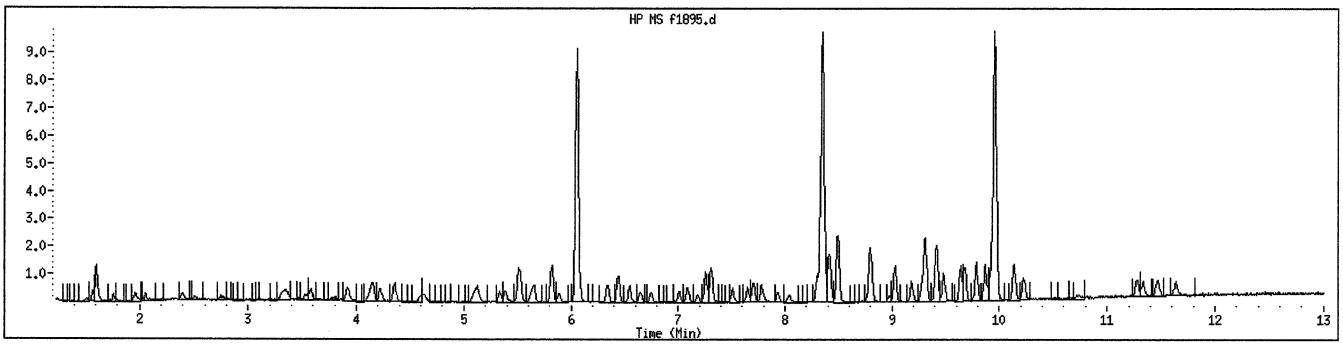
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050613.s.b/f1895.d
Report Date: 06/13/2005 20:34

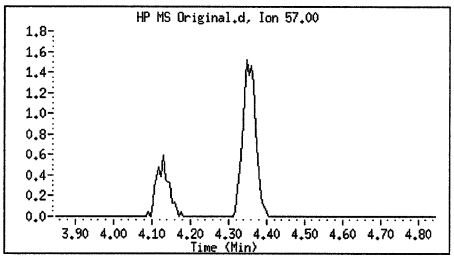
MANUAL INTEGRATION GRAPHIC REPORT

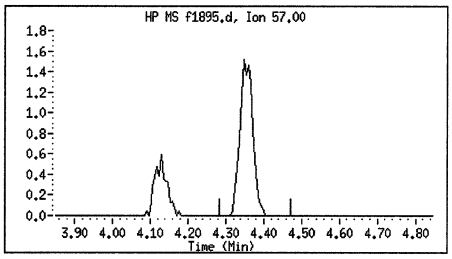
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 13-JUN-2005 12:29	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1201*V5STD005*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



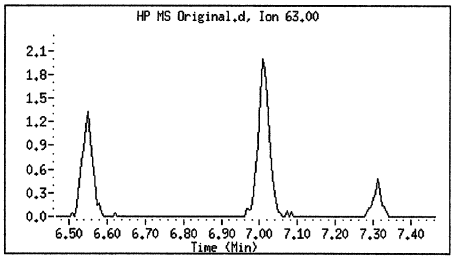
Original Final

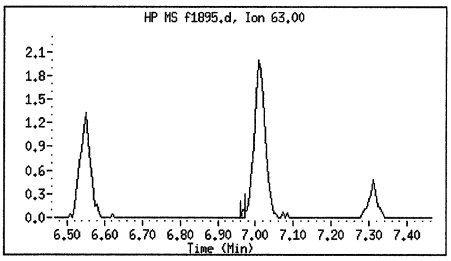
24 Hexane CAS#: 110-54-3





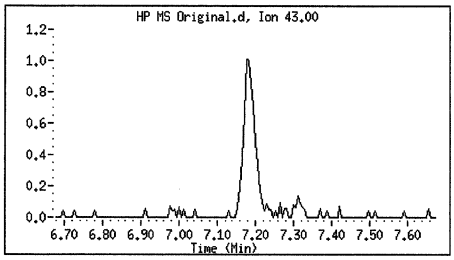
57 2-Chloroethyl vinyl ether CAS#: 110-75-8

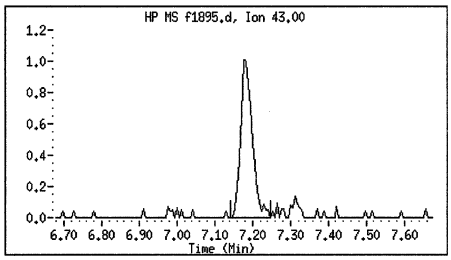




Original Final

59 4-methyl-2-pentanone CAS#: 108-10-1





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1896.d
Lab Smp Id: 1210 Client Smp ID: V5STD010
Inj Date : 13-JUN-2005 12:53
Operator : JCK Inst ID: msv5.i
Smp Info : 1210*V5STD010*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:35 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 12:53 Cal File: f1896.d
Als bottle: 5 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.292)	44529	10.0000	11.2	
2 Chloromethane ++	50	1.964	1.964	(0.324)	65828	10.0000	10.7	
3 Vinyl Chloride +	62	2.058	2.058	(0.340)	57677	10.0000	10.7	
5 Bromomethane	94	2.392	2.392	(0.395)	42126	10.0000	9.97	
6 Chloroethane	64	2.503	2.503	(0.413)	26442	10.0000	10.2	
7 Trichlorofluoromethane	101	2.755	2.755	(0.455)	34507	10.0000	10.0	
10 Acrolein	56	3.305	3.305	(0.546)	18165	50.0000	49.5	
11 1,1,2Trichlotrifluoroethane	101	3.329	3.329	(0.550)	38487	10.0000	11.0	
12 1,1-Dichloroethene +	96	3.352	3.352	(0.554)	32812	10.0000	11.0	
13 Acetone	43	3.470	3.470	(0.573)	14213	10.0000	10.3	
14 Methyl Iodide	142	3.540	3.540	(0.585)	58696	10.0000	10.2	
15 Carbon Disulfide	76	3.581	3.581	(0.592)	131788	10.0000	10.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.798	3.798	(0.627)	32975	10.0000	10.4	7701
	18 Methylene Chloride	49	3.927	3.927	(0.649)	62794	10.0000	7.89	
	20 MTBE	73	4.131	4.131	(0.682)	106763	10.0000	10.3	8569
	21 trans-1,2-Dichloroethene	61	4.149	4.149	(0.685)	63776	10.0000	10.5	
	22 Acrylonitrile	53	4.220	4.220	(0.697)	99516	50.0000	51.5	
	24 Hexane	57	4.360	4.360	(0.720)	71484	10.0000	10.5	0(M)
	27 1,1-Dichloroethane ++	63	4.594	4.594	(0.759)	62828	10.0000	8.83	
	28 Vinyl Acetate	43	4.624	4.624	(0.764)	80231	10.0000	9.66	
	30 2,2-Dichloropropane	77	5.092	5.092	(0.841)	54982	10.0000	10.3	
	31 cis-1,2-Dichloroethene	61	5.121	5.121	(0.846)	69800	10.0000	10.4	
	32 2-Butanone	43	5.145	5.145	(0.850)	26696	10.0000	9.14	
	35 Bromochloromethane	128	5.332	5.332	(0.881)	24078	10.0000	9.94	
	36 Chloroform +	83	5.391	5.391	(0.891)	67950	10.0000	10.6	
	37 Cyclohexane	56	5.520	5.520	(0.912)	79285	10.0000	9.97	8965
$	38 Dibromofluoromethane	111	5.532	5.532	(0.914)	44498	10.0000	10.4	8503
	39 1,1,1-Trichloroethane	97	5.514	5.514	(0.911)	54430	10.0000	10.8	
	40 Carbon Tetrachloride	117	5.631	5.631	(0.930)	44140	10.0000	10.3	
	41 1,1-Dichloropropene	75	5.649	5.649	(0.933)	59125	10.0000	10.1	
M	42 Total 1,2-Dichloroethene	61				133576	20.0000	20.8	
	44 Benzene	78	5.819	5.819	(0.961)	184776	10.0000	10.3	
$	45 1,2-Dichloroethane-d4	67	5.825	5.825	(0.962)	24700	10.0000	10.9	
	46 1,2-Dichloroethane	62	5.889	5.889	(0.973)	53938	10.0000	10.7	
*	47 FLUOROBENZENE	96	6.053	6.053	(1.000)	870428	50.0000		
	49 Trichloroethene	130	6.340	6.340	(1.047)	49136	10.0000	10.3	
	50 Methyl Cyclohexane	83	6.434	6.434	(1.063)	76251	10.0000	10.1	8848
	51 1,2-Dichloropropane +	63	6.546	6.546	(1.081)	51660	10.0000	9.99	
	55 Dibromomethane	93	6.645	6.645	(1.098)	32999	10.0000	10.2	
	56 Bromodichloromethane	83	6.751	6.751	(1.115)	49585	10.0000	9.47	
	57 2-Chloroethyl vinyl ether	63	6.967	6.967	(1.151)	37958	10.0000	11.7	
	58 cis-1,3-Dichloropropene	75	7.091	7.091	(1.171)	77974	10.0000	10.5	
	59 4-methyl-2-pentanone	43	7.179	7.179	(1.186)	52469	10.0000	10.0	(M)
$	60 Toluene-d8	98	7.255	7.255	(0.869)	165000	10.0000	10.1	
	61 Toluene +	91	7.308	7.308	(0.876)	194835	10.0000	9.94	
	63 trans-1,3-Dichloropropene	75	7.513	7.513	(0.900)	64046	10.0000	9.84	
	64 1,1,2-Trichloroethane	97	7.648	7.648	(0.916)	45022	10.0000	10.7	
	65 Tetrachloroethene	164	7.706	7.706	(0.923)	38656	10.0000	10.4	
	66 1,3-Dichloropropane	76	7.777	7.777	(0.932)	79174	10.0000	10.3	
	67 2-Hexanone	43	7.800	7.800	(0.935)	31504	10.0000	9.19	
	68 Dibromochloromethane	129	7.929	7.929	(0.950)	42585	10.0000	9.87	
	69 1,2-Dibromoethane(EDB)	107	8.040	8.040	(0.963)	48850	10.0000	10.1	
*	70 CHLOROBENZENE-d5	82	8.345	8.345	(1.000)	364555	50.0000		
	71 Chlorobenzene ++	112	8.375	8.375	(1.004)	130346	10.0000	10.1	
	72 Ethylbenzene +	106	8.410	8.410	(1.008)	69099	10.0000	9.98	
	73 1,1,1,2-Tetrachloroethane	133	8.428	8.428	(1.010)	39435	10.0000	9.91	
	74 p,m-Xylene	106	8.498	8.498	(1.018)	168090	20.0000	19.9	
	75 o-Xylene	106	8.791	8.791	(1.053)	83374	10.0000	10.3	
	76 Styrene	104	8.803	8.803	(1.055)	142086	10.0000	10.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.973	8.973	(1.075)	28340	10.0000	9.42	
78 Isopropylbenzene	105	9.032	9.032	(1.082)	201857	10.0000	10.1	
$ 80 Bromofluorobenzene	174	9.184	9.184	(1.101)	54083	10.0000	10.6	
81 1,1,2,2-Tetrachloroethane++	83	9.272	9.272	(0.931)	57959	10.0000	10.1	
82 Bromobenzene	77	9.296	9.296	(0.933)	114688	10.0000	9.85	
84 trans-1,4-Dichloro-2-Butene	53	9.320	9.320	(0.936)	11786	10.0000	9.60	
85 n-Propylbenzene	91	9.308	9.308	(0.934)	261473	10.0000	9.99	
86 1,2,3-Trichloropropane	75	9.320	9.320	(0.936)	64220	10.0000	10.1	
87 2-Chlorotoluene	91	9.408	9.408	(0.944)	157279	10.0000	9.92	
88 1,3,5-Trimethylbenzene	105	9.420	9.420	(0.946)	167605	10.0000	9.86	
89 4-Chlorotoluene	91	9.479	9.479	(0.952)	145958	10.0000	9.61	
91 tert-butylbenzene	91	9.637	9.637	(0.968)	112690	10.0000	11.0	
92 1,2,4-Trimethylbenzene	105	9.684	9.684	(0.972)	166967	10.0000	9.61	
96 sec-Butylbenzene	105	9.784	9.784	(0.982)	240825	10.0000	10.3	
97 p-Isopropyltoluene	119	9.866	9.866	(0.991)	189270	10.0000	10.2	
98 1,3-Dichlorobenzene	146	9.913	9.913	(0.995)	105208	10.0000	10.3	
* 99 1,4-DICHLOROBENZENE-D4	152	9.961	9.961	(1.000)	333795	50.0000		
100 1,4-Dichlorobenzene	146	9.978	9.978	(1.002)	100965	10.0000	9.68	
M 101 TOTAL XYLENE	106				251464	30.0000	30.1	
102 n-Butylbenzene	91	10.137	10.137	(1.018)	176871	10.0000	9.81	
103 1,2-Dichlorobenzene	146	10.225	10.225	(1.027)	94970	10.0000	10.1	
104 1,2-Dibromo-3-Chloropropane	157	10.741	10.741	(1.078)	9229	10.0000	8.91	
106 1,2,4-Trichlorobenzene	180	11.281	11.281	(1.133)	57769	10.0000	9.74	
107 Hexachlorobutadiene	225	11.334	11.334	(1.138)	29205	10.0000	10.4	
108 Naphthalene	128	11.475	11.475	(1.152)	142128	10.0000	9.57	
109 1,2,3-Trichlorobenzene	180	11.640	11.640	(1.169)	54926	10.0000	9.69	
140 1-Bromo-2-chloroethane	63	7.009	7.009	(1.158)	81127	10.0000	9.60	7958
154 1-Chlorohexane	91	8.298	8.298	(0.994)	78795	10.0000	10.6	9530
M 139 1-3 Dichloropropene-Total	100				142020	20.0000	20.3	0

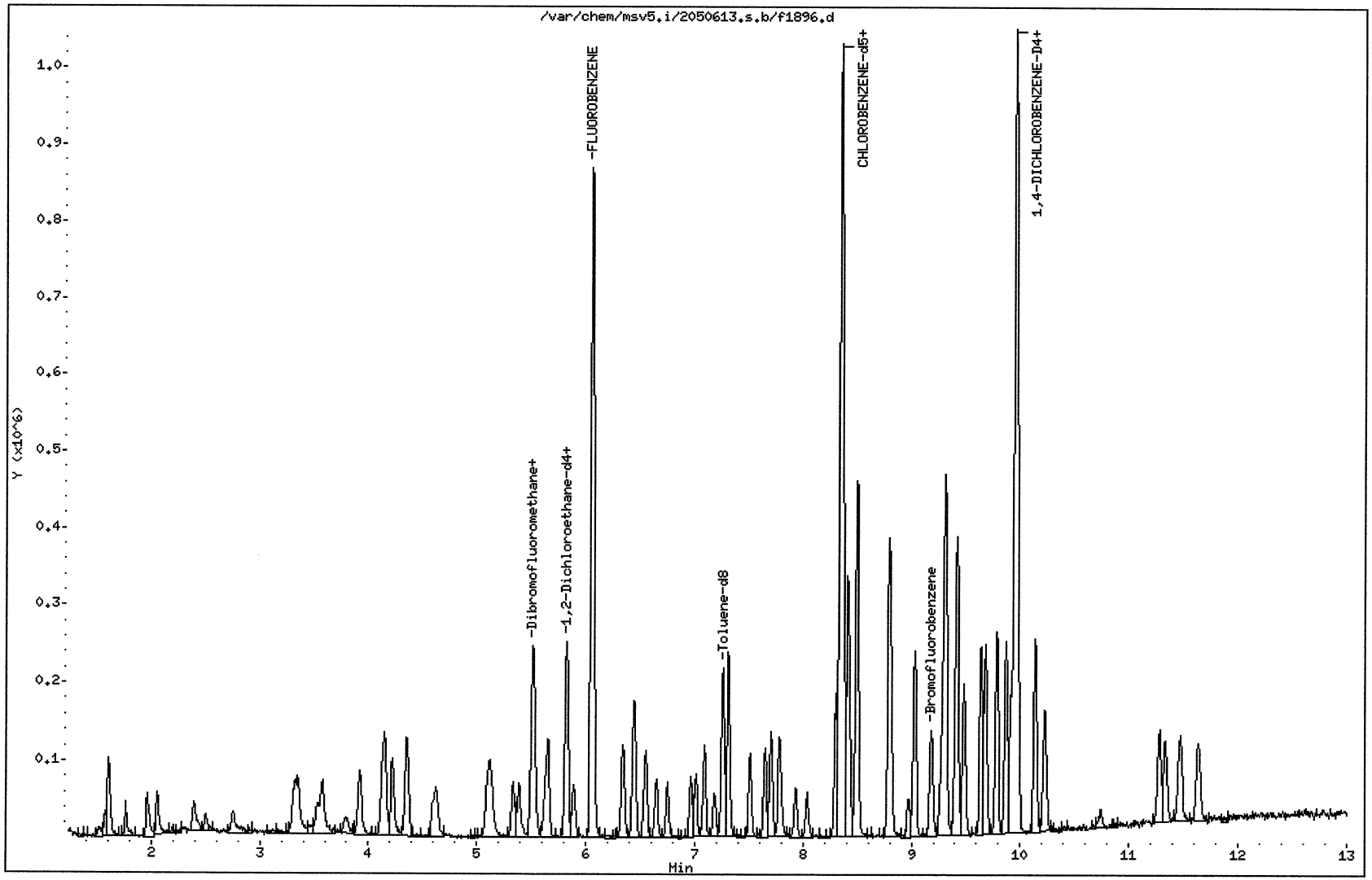
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/msv5.i/2050613.s.b/f1896.d
Date : 13-JUN-2005 12:53
Client ID: V5STD010
Sample Info: 1210*V5STD010*5-30-4
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: JCK
Column diameter: 0.53

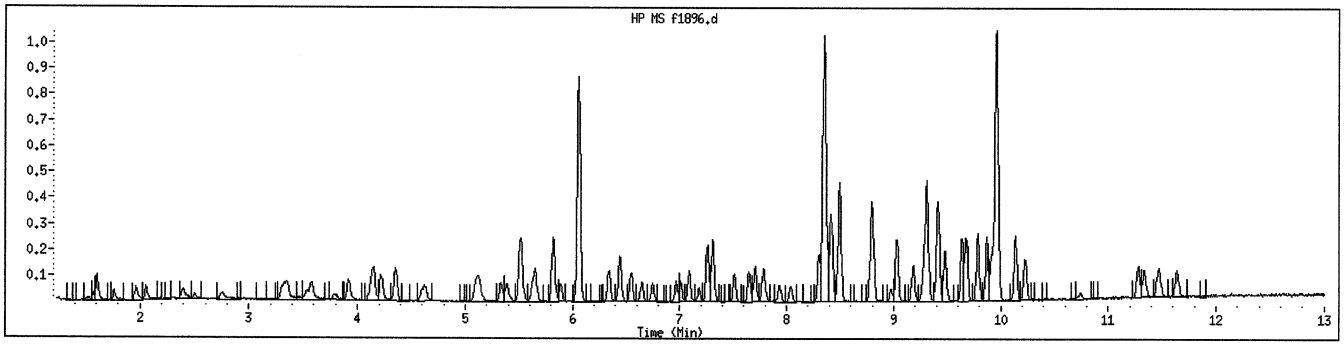


000113

Data file : /var/chem/msv5.i/2050613.s.b/f1896.d
Report Date: 06/13/2005 20:35

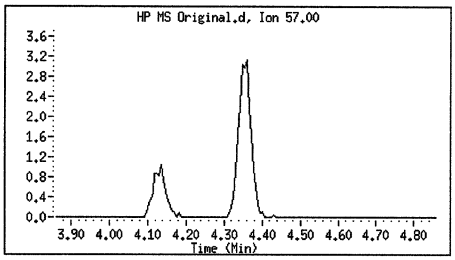
MANUAL INTEGRATION GRAPHIC REPORT

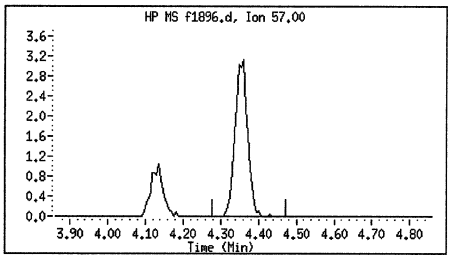
Lab ID	: 1210	SampleType	: CALIB_10
Injection Date	: 13-JUN-2005 12:53	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1210*V5STD010*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



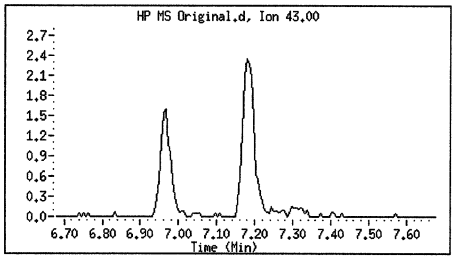
Original Final

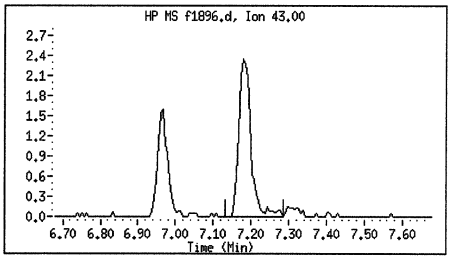
24 Hexane CAS#: 110-54-3





59 4-methyl-2-pentanone CAS#: 108-10-1





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1897.d
Lab Smp Id: 1202 Client Smp ID: V5STD020
Inj Date : 13-JUN-2005 13:18
Operator : JCK Inst ID: msv5.i
Smp Info : 1202*V5STD020*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:35 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 13:18 Cal File: f1897.d
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.291)	82433	20.0000	21.7	
2 Chloromethane ++	50	1.964	1.964	(0.324)	124748	20.0000	21.2	
3 Vinyl Chloride +	62	2.057	2.057	(0.340)	104453	20.0000	20.2	
5 Bromomethane	94	2.391	2.391	(0.395)	85831	20.0000	21.2	
6 Chloroethane	64	2.509	2.509	(0.414)	54277	20.0000	21.8	
7 Trichlorofluoromethane	101	2.761	2.761	(0.456)	67812	20.0000	19.0	
10 Acrolein	56	3.305	3.305	(0.546)	31417	100.000	89.5	
11 1,1,2Trichlotrifluoroethane	101	3.317	3.317	(0.548)	68599	20.0000	20.4	
12 1,1-Dichloroethene +	96	3.358	3.358	(0.555)	58959	20.0000	20.6	
13 Acetone	43	3.464	3.464	(0.572)	24148	20.0000	18.3	
14 Methyl Iodide	142	3.540	3.540	(0.585)	113610	20.0000	20.7	
15 Carbon Disulfide	76	3.575	3.575	(0.590)	239630	20.0000	20.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.798	3.798	(0.627)	59084	20.0000	19.5	8821
	18 Methylene Chloride	49	3.915	3.915	(0.647)	115171	20.0000	18.9	
	20 MTBE	73	4.132	4.132	(0.682)	198690	20.0000	20.0	8656
	21 trans-1,2-Dichloroethene	61	4.155	4.155	(0.686)	118469	20.0000	20.3	
	22 Acrylonitrile	53	4.220	4.220	(0.697)	190999	100.000	103	
	24 Hexane	57	4.361	4.361	(0.720)	130919	20.0000	20.2	0(M)
	27 1,1-Dichloroethane ++	63	4.595	4.595	(0.759)	142315	20.0000	20.9	
	28 Vinyl Acetate	43	4.624	4.624	(0.764)	161309	20.0000	20.3	
	30 2,2-Dichloropropane	77	5.098	5.098	(0.842)	104570	20.0000	20.5	
	31 cis-1,2-Dichloroethene	61	5.122	5.122	(0.846)	134600	20.0000	20.9	
	32 2-Butanone	43	5.145	5.145	(0.850)	54475	20.0000	19.5	
	35 Bromochloromethane	128	5.333	5.333	(0.881)	47731	20.0000	20.6	
	36 Chloroform +	83	5.391	5.391	(0.890)	124860	20.0000	20.3	
	37 Cyclohexane	56	5.515	5.515	(0.911)	159052	20.0000	20.9	9031
$	38 Dibromofluoromethane	111	5.527	5.527	(0.913)	81499	20.0000	20.0	8975
	39 1,1,1-Trichloroethane	97	5.515	5.515	(0.911)	95670	20.0000	19.9	
	40 Carbon Tetrachloride	117	5.626	5.626	(0.929)	84719	20.0000	20.8	
	41 1,1-Dichloropropene	75	5.656	5.656	(0.934)	114572	20.0000	20.5	
M	42 Total 1,2-Dichloroethene	61				253069	40.0000	41.2	
	44 Benzene	78	5.820	5.820	(0.961)	339883	20.0000	19.9	
$	45 1,2-Dichloroethane-d4	67	5.826	5.826	(0.962)	42966	20.0000	19.9	
	46 1,2-Dichloroethane	62	5.885	5.885	(0.972)	94124	20.0000	19.6	
*	47 FLUOROBENZENE	96	6.055	6.055	(1.000)	832624	50.0000		
	49 Trichloroethene	130	6.342	6.342	(1.047)	92409	20.0000	20.2	
	50 Methyl Cyclohexane	83	6.441	6.441	(1.064)	147424	20.0000	20.5	8983
	51 1,2-Dichloropropane +	63	6.547	6.547	(1.081)	99613	20.0000	20.1	
	55 Dibromomethane	93	6.647	6.647	(1.098)	61820	20.0000	20.1	
	56 Bromodichloromethane	83	6.746	6.746	(1.114)	101124	20.0000	20.2	
	57 2-Chloroethyl vinyl ether	63	6.969	6.969	(1.151)	68519	20.0000	19.8	
	58 cis-1,3-Dichloropropene	75	7.086	7.086	(1.170)	142977	20.0000	20.1	
	59 4-methyl-2-pentanone	43	7.180	7.180	(1.186)	108234	20.0000	21.6	(M)
$	60 Toluene-d8	98	7.256	7.256	(0.869)	313607	20.0000	20.4	
	61 Toluene +	91	7.309	7.309	(0.876)	373017	20.0000	20.2	
	63 trans-1,3-Dichloropropene	75	7.509	7.509	(0.900)	128024	20.0000	20.8	
	64 1,1,2-Trichloroethane	97	7.649	7.649	(0.916)	80301	20.0000	20.1	
	65 Tetrachloroethene	164	7.702	7.702	(0.923)	73424	20.0000	20.9	
	66 1,3-Dichloropropane	76	7.779	7.779	(0.932)	148989	20.0000	20.5	
	67 2-Hexanone	43	7.796	7.796	(0.934)	68943	20.0000	21.3	
	68 Dibromochloromethane	129	7.931	7.931	(0.950)	86865	20.0000	21.3	
	69 1,2-Dibromoethane(EDB)	107	8.037	8.037	(0.963)	97338	20.0000	21.3	
*	70 CHLOROBENZENE-d5	82	8.348	8.348	(1.000)	344327	50.0000		
	71 Chlorobenzene ++	112	8.371	8.371	(1.003)	258067	20.0000	21.2	
	72 Ethylbenzene +	106	8.412	8.412	(1.008)	135395	20.0000	20.7	
	73 1,1,1,2-Tetrachloroethane	133	8.424	8.424	(1.009)	75783	20.0000	20.2	
	74 p,m-Xylene	106	8.495	8.495	(1.018)	330500	40.0000	41.3	
	75 o-Xylene	106	8.788	8.788	(1.053)	156664	20.0000	20.4	
	76 Styrene	104	8.806	8.806	(1.055)	276429	20.0000	20.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.976	8.976	(1.075)	56953	20.0000	20.1	
78 Isopropylbenzene	105	9.029	9.029	(1.082)	393915	20.0000	20.8	
$ 80 Bromofluorobenzene	174	9.181	9.181	(1.100)	98113	20.0000	20.3	
81 1,1,2,2-Tetrachloroethane++	83	9.269	9.269	(0.931)	115809	20.0000	21.0	
82 Bromobenzene	77	9.299	9.299	(0.934)	226318	20.0000	20.2	
84 trans-1,4-Dichloro-2-Butene	53	9.317	9.317	(0.936)	24659	20.0000	20.8	
85 n-Propylbenzene	91	9.311	9.311	(0.935)	508645	20.0000	20.2	
86 1,2,3-Trichloropropane	75	9.317	9.317	(0.936)	130332	20.0000	21.4	
87 2-Chlorotoluene	91	9.405	9.405	(0.944)	317413	20.0000	20.8	
88 1,3,5-Trimethylbenzene	105	9.423	9.423	(0.946)	328993	20.0000	20.1	
89 4-Chlorotoluene	91	9.482	9.482	(0.952)	302426	20.0000	20.7	
91 tert-butylbenzene	91	9.640	9.640	(0.968)	209417	20.0000	21.3	
92 1,2,4-Trimethylbenzene	105	9.682	9.682	(0.972)	330256	20.0000	19.7	
96 sec-Butylbenzene	105	9.787	9.787	(0.983)	458228	20.0000	20.3	
97 p-Isopropyltoluene	119	9.870	9.870	(0.991)	357595	20.0000	20.0	
98 1,3-Dichlorobenzene	146	9.917	9.917	(0.996)	193162	20.0000	19.6	
* 99 1,4-DICHLOROBENZENE-D4	152	9.959	9.959	(1.000)	321594	50.0000		
100 1,4-Dichlorobenzene	146	9.970	9.970	(1.001)	198043	20.0000	19.7	
M 101 TOTAL XYLENE	106				487164	60.0000	61.7	
102 n-Butylbenzene	91	10.141	10.141	(1.018)	347498	20.0000	20.0	
103 1,2-Dichlorobenzene	146	10.229	10.229	(1.027)	174848	20.0000	19.4	
104 1,2-Dibromo-3-Chloropropane	157	10.739	10.739	(1.078)	20302	20.0000	20.3	
106 1,2,4-Trichlorobenzene	180	11.285	11.285	(1.133)	105105	20.0000	18.4	
107 Hexachlorobutadiene	225	11.339	11.339	(1.139)	58184	20.0000	21.4	
108 Naphthalene	128	11.474	11.474	(1.152)	276643	20.0000	19.3	
109 1,2,3-Trichlorobenzene	180	11.644	11.644	(1.169)	102508	20.0000	18.8	
140 1-Bromo-2-chloroethane	63	7.010	7.010	(1.158)	160364	20.0000	19.8	7446
154 1-Chlorohexane	91	8.300	8.300	(0.994)	149171	20.0000	21.2	9615
M 139 1-3 Dichloropropene-Total	100				271001	40.0000	40.9	0

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/msv5.i/2050613.s.b/f1897.d

Date : 13-JUN-2005 13:18

Client ID: V5STD020

Sample Info: 1202*V5STD020*5-30-4

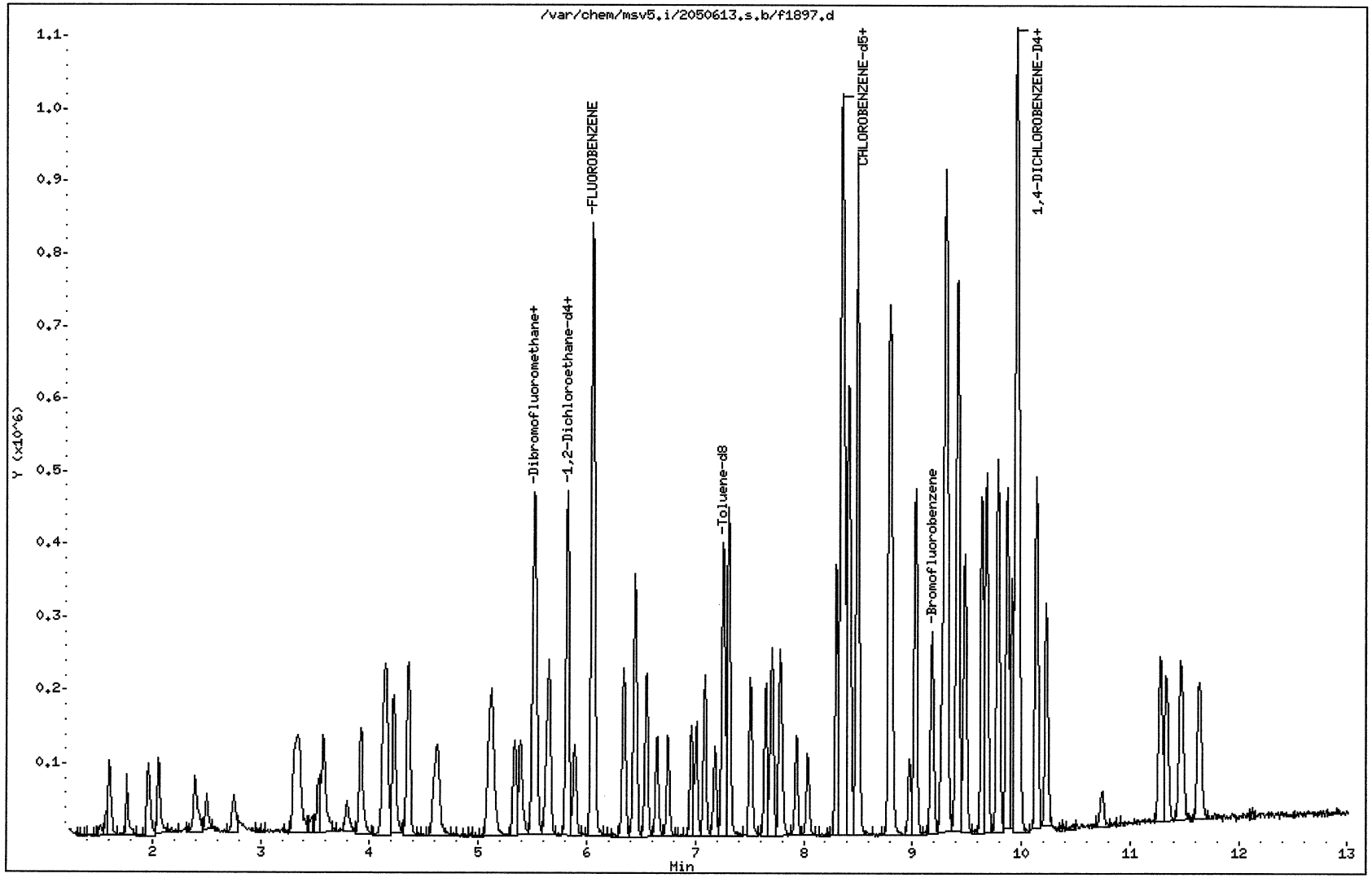
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv5.i

Operator: JCK

Column diameter: 0.53

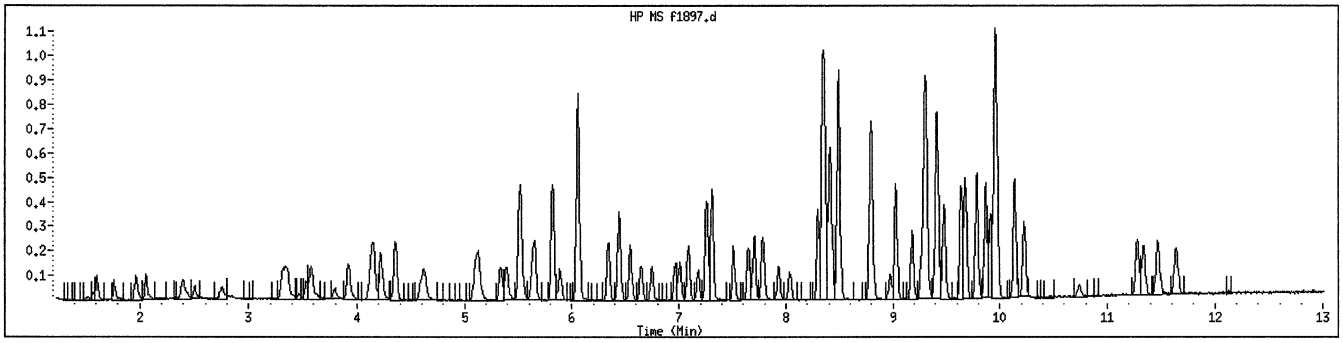


000118

Data file : /var/chem/msv5.i/2050613.s.b/f1897.d
Report Date: 06/13/2005 20:35

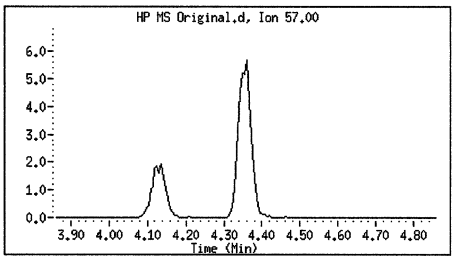
MANUAL INTEGRATION GRAPHIC REPORT

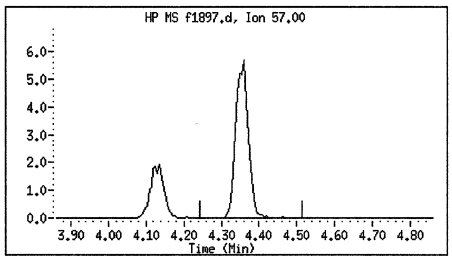
Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 13-JUN-2005 13:18	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1202*V5STD020*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



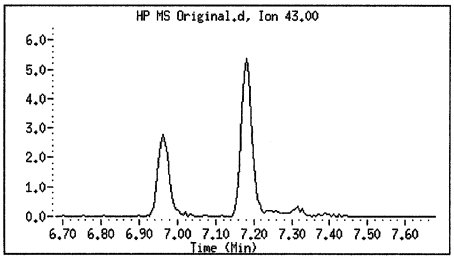
Original Final

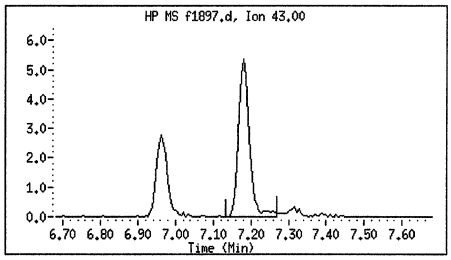
24 Hexane CAS#: 110-54-3





59 4-methyl-2-pentanone CAS#: 108-10-1





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1898.d
Lab Smp Id: 1203 Client Smp ID: V5STD050
Inj Date : 13-JUN-2005 13:42
Operator : JCK Inst ID: msv5.i
Smp Info : 1203*V5STD050*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:35 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 13:42 Cal File: f1898.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.291)	204026	50.0000	52.6	
2 Chloromethane ++	50	1.964	1.964	(0.324)	315056	50.0000	52.5	
3 Vinyl Chloride +	62	2.058	2.058	(0.340)	279345	50.0000	53.1	
5 Bromomethane	94	2.392	2.392	(0.395)	193280	50.0000	46.9	
6 Chloroethane	64	2.509	2.509	(0.414)	136434	50.0000	53.7	
7 Trichlorofluoromethane	101	2.755	2.755	(0.455)	205843	50.0000	53.6	
10 Acrolein	56	3.300	3.300	(0.545)	92847	250.000	259	(A)
11 1,1,2Trichlotrifluoroethane	101	3.330	3.330	(0.550)	175763	50.0000	51.3	
12 1,1-Dichloroethene +	96	3.353	3.353	(0.554)	156488	50.0000	53.6	
13 Acetone	43	3.471	3.471	(0.573)	61148	50.0000	45.3	
14 Methyl Iodide	142	3.535	3.535	(0.584)	292396	50.0000	52.1	
15 Carbon Disulfide	76	3.576	3.576	(0.590)	609980	50.0000	50.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.793	3.793	(0.626)	155235	50.0000	50.1	9371
	18 Methylene Chloride	49	3.922	3.922	(0.647)	301396	50.0000	55.0	
	20 MTBE	73	4.127	4.127	(0.681)	521429	50.0000	51.4	7883
	21 trans-1,2-Dichloroethene	61	4.157	4.157	(0.686)	302758	50.0000	50.9	
	22 Acrylonitrile	53	4.221	4.221	(0.697)	479327	250.000	254	(A)
	24 Hexane	57	4.350	4.350	(0.718)	341415	50.0000	51.6	8791
	27 1,1-Dichloroethane ++	63	4.596	4.596	(0.759)	359930	50.0000	51.8	
	28 Vinyl Acetate	43	4.620	4.620	(0.763)	423463	50.0000	52.3	
	30 2,2-Dichloropropane	77	5.094	5.094	(0.841)	263978	50.0000	50.8	
	31 cis-1,2-Dichloroethene	61	5.124	5.124	(0.846)	344651	50.0000	52.5	
	32 2-Butanone	43	5.141	5.141	(0.849)	117565	50.0000	41.3	
	35 Bromochloromethane	128	5.335	5.335	(0.881)	124188	50.0000	52.6	
	36 Chloroform +	83	5.394	5.394	(0.890)	324420	50.0000	51.8	
	37 Cyclohexane	56	5.511	5.511	(0.910)	397764	50.0000	51.2	9027
$	38 Dibromofluoromethane	111	5.535	5.535	(0.914)	215971	50.0000	51.9	8346
	39 1,1,1-Trichloroethane	97	5.517	5.517	(0.911)	252398	50.0000	51.5	
	40 Carbon Tetrachloride	117	5.629	5.629	(0.929)	217347	50.0000	52.2	
	41 1,1-Dichloropropene	75	5.652	5.652	(0.933)	290573	50.0000	51.0	
M	42 Total 1,2-Dichloroethene	61				647409	100.000	103	
	44 Benzene	78	5.817	5.817	(0.960)	873578	50.0000	50.1	
$	45 1,2-Dichloroethane-d4	67	5.823	5.823	(0.961)	117295	50.0000	53.2	
	46 1,2-Dichloroethane	62	5.887	5.887	(0.972)	251488	50.0000	51.3	
*	47 FLUOROBENZENE	96	6.057	6.057	(1.000)	849262	50.0000		
	49 Trichloroethene	130	6.339	6.339	(1.046)	227270	50.0000	48.6	
	50 Methyl Cyclohexane	83	6.439	6.439	(1.063)	373312	50.0000	50.9	8986
	51 1,2-Dichloropropane +	63	6.544	6.544	(1.080)	251042	50.0000	49.8	
	55 Dibromomethane	93	6.644	6.644	(1.097)	162462	50.0000	51.7	
	56 Bromodichloromethane	83	6.744	6.744	(1.113)	270275	50.0000	52.9	
	57 2-Chloroethyl vinyl ether	63	6.961	6.961	(1.149)	199146	50.0000	51.9	
	58 cis-1,3-Dichloropropene	75	7.090	7.090	(1.170)	387947	50.0000	53.4	
	59 4-methyl-2-pentanone	43	7.178	7.178	(1.185)	283529	50.0000	55.5	(M)
$	60 Toluene-d8	98	7.260	7.260	(0.870)	788463	50.0000	48.5	
	61 Toluene +	91	7.308	7.308	(0.876)	960301	50.0000	49.0	
	63 trans-1,3-Dichloropropene	75	7.513	7.513	(0.900)	336546	50.0000	51.7	
	64 1,1,2-Trichloroethane	97	7.648	7.648	(0.916)	211960	50.0000	50.1	
	65 Tetrachloroethene	164	7.707	7.707	(0.923)	186441	50.0000	50.0	
	66 1,3-Dichloropropane	76	7.777	7.777	(0.932)	383388	50.0000	49.7	
	67 2-Hexanone	43	7.789	7.789	(0.933)	171649	50.0000	50.1	
	68 Dibromochloromethane	129	7.936	7.936	(0.951)	231384	50.0000	53.6	
	69 1,2-Dibromoethane(EDB)	107	8.036	8.036	(0.963)	246648	50.0000	51.1	
*	70 CHLOROBENZENE-d5	82	8.347	8.347	(1.000)	364679	50.0000		
	71 Chlorobenzene ++	112	8.370	8.370	(1.003)	637030	50.0000	49.4	
	72 Ethylbenzene +	106	8.412	8.412	(1.008)	340481	50.0000	49.2	
	73 1,1,1,2-Tetrachloroethane	133	8.423	8.423	(1.009)	200345	50.0000	50.3	
	74 p,m-Xylene	106	8.494	8.494	(1.018)	838371	100.000	99.0	
	75 o-Xylene	106	8.788	8.788	(1.053)	407609	50.0000	50.1	
	76 Styrene	104	8.805	8.805	(1.055)	692962	50.0000	49.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.976	8.976	(1.075)	159061	50.0000	52.9	
78 Isopropylbenzene	105	9.029	9.029	(1.082)	984241	50.0000	49.0	
$ 80 Bromofluorobenzene	174	9.181	9.181	(1.100)	254329	50.0000	49.6	
81 1,1,2,2-Tetrachloroethane++	83	9.270	9.270	(0.931)	298337	50.0000	53.9	
82 Bromobenzene	77	9.299	9.299	(0.934)	556738	50.0000	49.5	
84 trans-1,4-Dichloro-2-Butene	53	9.311	9.311	(0.935)	65773	50.0000	55.5	
85 n-Propylbenzene	91	9.311	9.311	(0.935)	1250322	50.0000	49.5	
86 1,2,3-Trichloropropane	75	9.317	9.317	(0.936)	347023	50.0000	56.8	
87 2-Chlorotoluene	91	9.406	9.406	(0.945)	762124	50.0000	49.8	
88 1,3,5-Trimethylbenzene	105	9.423	9.423	(0.947)	816878	50.0000	49.8	
89 4-Chlorotoluene	91	9.482	9.482	(0.953)	736212	50.0000	50.2	
91 tert-butylbenzene	91	9.641	9.641	(0.969)	518138	50.0000	52.5	
92 1,2,4-Trimethylbenzene	105	9.682	9.682	(0.973)	826474	50.0000	49.2	
96 sec-Butylbenzene	105	9.783	9.783	(0.983)	1122268	50.0000	49.5	
97 p-Isopropyltoluene	119	9.871	9.871	(0.992)	878128	50.0000	48.9	
98 1,3-Dichlorobenzene	146	9.912	9.912	(0.996)	482546	50.0000	48.9	
* 99 1,4-DICHLOROBENZENE-D4	152	9.954	9.954	(1.000)	322350	50.0000		
100 1,4-Dichlorobenzene	146	9.972	9.972	(1.002)	501779	50.0000	49.8	
M 101 TOTAL XYLENE	106				1245980	150.000	149	
102 n-Butylbenzene	91	10.136	10.136	(1.018)	846945	50.0000	48.6	
103 1,2-Dichlorobenzene	146	10.225	10.225	(1.027)	429071	50.0000	47.4	
104 1,2-Dibromo-3-Chloropropane	157	10.741	10.741	(1.079)	51800	50.0000	51.8	
106 1,2,4-Trichlorobenzene	180	11.276	11.276	(1.133)	281319	50.0000	49.1	
107 Hexachlorobutadiene	225	11.335	11.335	(1.139)	141371	50.0000	51.9	
108 Naphthalene	128	11.470	11.470	(1.152)	704176	50.0000	49.1	
109 1,2,3-Trichlorobenzene	180	11.641	11.641	(1.169)	263313	50.0000	48.1	
140 1-Bromo-2-chloroethane	63	7.008	7.008	(1.157)	399797	50.0000	48.5	7282
154 1-Chlorohexane	91	8.299	8.299	(0.994)	371477	50.0000	49.9	9783
M 139 1-3 Dichloropropene-Total	100				724493	100.000	105	0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/msv5.i/2050613.s.b/f1898.d

Date : 13-JUN-2005 13:42

Client ID: V5STD050

Sample Info: 1203*V5STD050*5-30-4

Purge Volume: 5.0

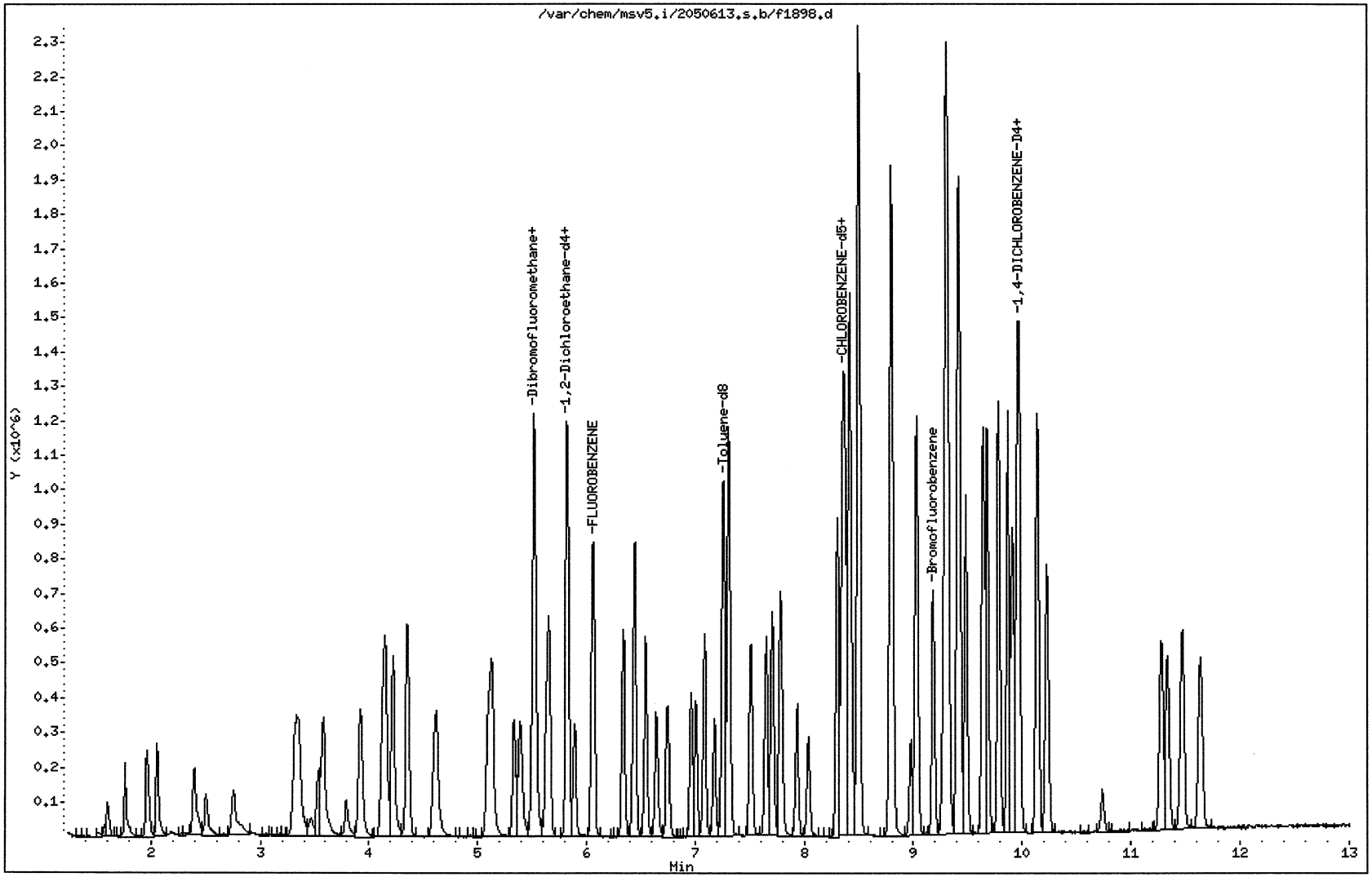
Column phase: DB-624-30M

Page 1

Instrument: msv5.i

Operator: JCK

Column diameter: 0.53

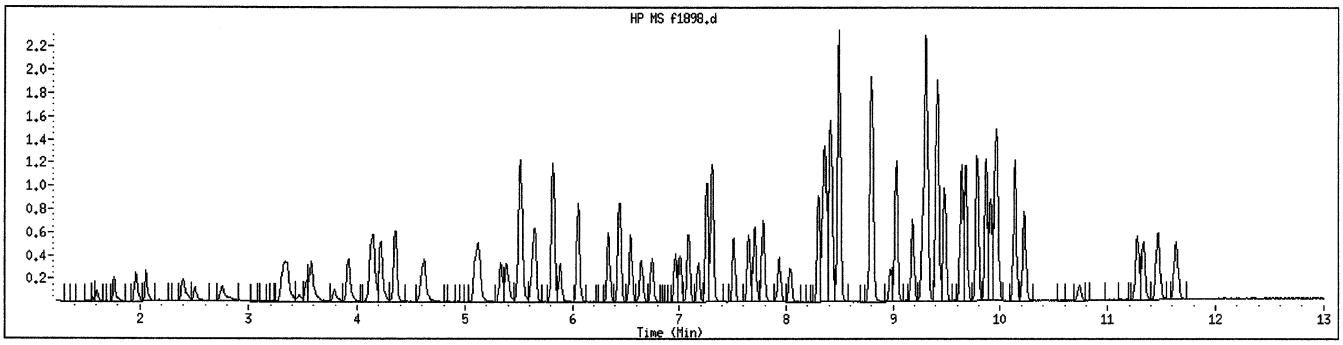


000123

Data file : /var/chem/msv5.i/2050613.s.b/f1898.d
Report Date: 06/13/2005 20:35

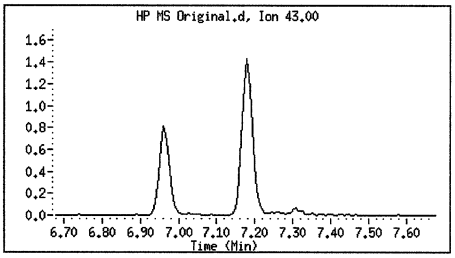
MANUAL INTEGRATION GRAPHIC REPORT

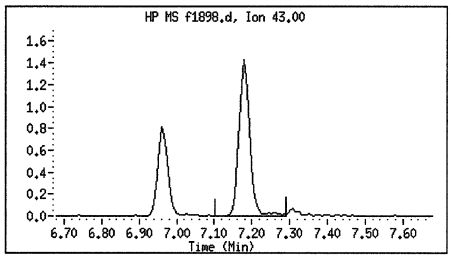
Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 13-JUN-2005 13:42	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1203*V5STD050*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

59 4-methyl-2-pentanone CAS#: 108-10-1





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1899.d
Lab Smp Id: 1204 Client Smp ID: V5STD100
Inj Date : 13-JUN-2005 14:06
Operator : DLB Inst ID: msv5.i
Smp Info : 1204*V5STD100*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:35 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 14:06 Cal File: f1899.d
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(1.000)	372652	100.000	95.6	
2 Chloromethane ++	50	1.964	1.964	(1.000)	540268	100.000	89.5	
3 Vinyl Chloride +	62	2.058	2.058	(1.000)	497574	100.000	94.0	
5 Bromomethane	94	2.392	2.392	(1.000)	354393	100.000	85.5	
6 Chloroethane	64	2.503	2.503	(1.000)	253717	100.000	99.3	
7 Trichlorofluoromethane	101	2.750	2.750	(1.000)	368365	100.000	94.2	
10 Acrolein	56	3.306	3.306	(1.000)	197722	500.000	549	(A)
11 1,1,2Trichlotrifluoroethane	101	3.324	3.324	(1.000)	313933	100.000	91.1	
12 1,1-Dichloroethene +	96	3.360	3.360	(1.000)	264614	100.000	90.1	
13 Acetone	43	3.465	3.465	(1.000)	122693	100.000	90.4	
14 Methyl Iodide	142	3.536	3.536	(1.000)	554967	100.000	98.4	
15 Carbon Disulfide	76	3.577	3.577	(1.000)	1126353	100.000	92.1	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.794	3.794	(1.000)	314822	100.000	101	3715 (MH)
	18 Methylene Chloride	49	3.917	3.917	(1.000)	581972	100.000	109	
	20 MTBE	73	4.128	4.128	(1.000)	1033624	100.000	101	7735
	21 trans-1,2-Dichloroethene	61	4.152	4.152	(1.000)	553807	100.000	92.5	
	22 Acrylonitrile	53	4.222	4.222	(1.000)	953466	500.000	503	(A)
	24 Hexane	57	4.351	4.351	(1.000)	623431	100.000	93.8	8773
	27 1,1-Dichloroethane ++	63	4.598	4.598	(1.000)	668920	100.000	95.8	
	28 Vinyl Acetate	43	4.621	4.621	(1.000)	862769	100.000	106	
	30 2,2-Dichloropropane	77	5.096	5.096	(1.000)	482751	100.000	92.3	
	31 cis-1,2-Dichloroethene	61	5.125	5.125	(1.000)	633682	100.000	96.0	
	32 2-Butanone	43	5.137	5.137	(1.000)	257619	100.000	89.9	
	35 Bromochloromethane	128	5.330	5.330	(1.000)	237363	100.000	99.9	
	36 Chloroform +	83	5.389	5.389	(1.000)	613286	100.000	97.4	
	37 Cyclohexane	56	5.513	5.513	(1.000)	711438	100.000	91.2	9087
$	38 Dibromofluoromethane	111	5.531	5.531	(1.000)	405874	100.000	96.9	8663
	39 1,1,1-Trichloroethane	97	5.519	5.519	(1.000)	462891	100.000	94.0	
	40 Carbon Tetrachloride	117	5.631	5.631	(1.000)	399808	100.000	95.5	
	41 1,1-Dichloropropene	75	5.654	5.654	(1.000)	541106	100.000	94.5	
M	42 Total 1,2-Dichloroethene	61				1187489	200.000	189	
	44 Benzene	78	5.819	5.819	(1.000)	1617693	100.000	92.2	
$	45 1,2-Dichloroethane-d4	67	5.825	5.825	(1.000)	225741	100.000	102	
	46 1,2-Dichloroethane	62	5.889	5.889	(1.000)	478860	100.000	97.2	
*	47 FLUOROBENZENE	96	6.060	6.060	(1.000)	853971	50.0000		(M)
	49 Trichloroethene	130	6.335	6.335	(1.000)	419186	100.000	89.2	
	50 Methyl Cyclohexane	83	6.441	6.441	(1.000)	673063	100.000	91.2	9010
	51 1,2-Dichloropropane +	63	6.547	6.547	(1.000)	492239	100.000	97.0	
	55 Dibromomethane	93	6.641	6.641	(1.000)	309272	100.000	97.8	
	56 Bromodichloromethane	83	6.746	6.746	(1.000)	525555	100.000	102	
	57 2-Chloroethyl vinyl ether	63	6.963	6.963	(1.000)	376024	100.000	95.2	
	58 cis-1,3-Dichloropropene	75	7.087	7.087	(1.000)	745297	100.000	102	
	59 4-methyl-2-pentanone	43	7.181	7.181	(1.185)	531585	100.000	104	(M)
$	60 Toluene-d8	98	7.257	7.257	(0.869)	1431611	100.000	91.1	
	61 Toluene +	91	7.311	7.311	(0.875)	1706631	100.000	90.1	
	63 trans-1,3-Dichloropropene	75	7.510	7.510	(0.899)	664402	100.000	106	
	64 1,1,2-Trichloroethane	97	7.651	7.651	(0.916)	415679	100.000	102	
	65 Tetrachloroethene	164	7.704	7.704	(0.923)	341122	100.000	94.7	
	66 1,3-Dichloropropane	76	7.781	7.781	(0.932)	750580	100.000	101	
	67 2-Hexanone	43	7.793	7.793	(0.933)	367426	100.000	111	
	68 Dibromochloromethane	129	7.934	7.934	(0.950)	460641	100.000	110	
	69 1,2-Dibromoethane(EDB)	107	8.039	8.039	(0.963)	480340	100.000	103	
*	70 CHLOROBENZENE-d5	82	8.350	8.350	(1.000)	352395	50.0000		
	71 Chlorobenzene ++	112	8.374	8.374	(1.003)	1161389	100.000	93.3	
	72 Ethylbenzene +	106	8.410	8.410	(1.007)	603745	100.000	90.2	
	73 1,1,1,2-Tetrachloroethane	133	8.427	8.427	(1.009)	381021	100.000	99.1	
	74 p,m-Xylene	106	8.492	8.492	(1.017)	1481396	200.000	181	
	75 o-Xylene	106	8.792	8.792	(1.053)	739412	100.000	94.0	
	76 Styrene	104	8.804	8.804	(1.054)	1293156	100.000	95.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.980	8.980	(1.075)	321076	100.000	110	
78 Isopropylbenzene	105	9.027	9.027	(1.081)	1718719	100.000	88.5	
$ 80 Bromofluorobenzene	174	9.186	9.186	(1.100)	479191	100.000	96.7	
81 1,1,2,2-Tetrachloroethane++	83	9.274	9.274	(0.931)	567148	100.000	106	
82 Bromobenzene	77	9.298	9.298	(0.934)	1034105	100.000	95.3	
84 trans-1,4-Dichloro-2-Butene	53	9.310	9.310	(0.935)	128100	100.000	112	
85 n-Propylbenzene	91	9.310	9.310	(0.935)	2181919	100.000	89.5	
86 1,2,3-Trichloropropane	75	9.322	9.322	(0.936)	656805	100.000	111	
87 2-Chlorotoluene	91	9.410	9.410	(0.945)	1386034	100.000	93.8	
88 1,3,5-Trimethylbenzene	105	9.422	9.422	(0.946)	1466304	100.000	92.5	
89 4-Chlorotoluene	91	9.481	9.481	(0.952)	1324286	100.000	93.5	
91 tert-butylbenzene	91	9.640	9.640	(0.968)	911851	100.000	95.7	
92 1,2,4-Trimethylbenzene	105	9.682	9.682	(0.972)	1475881	100.000	91.1	
96 sec-Butylbenzene	105	9.788	9.788	(0.983)	1954211	100.000	89.4	
97 p-Isopropyltoluene	119	9.870	9.870	(0.991)	1565253	100.000	90.4	
98 1,3-Dichlorobenzene	146	9.918	9.918	(0.996)	898424	100.000	94.4	
* 99 1,4-DICHLOROBENZENE-D4	152	9.959	9.959	(1.000)	311122	50.0000		
100 1,4-Dichlorobenzene	146	9.977	9.977	(1.002)	893864	100.000	91.9	
M 101 TOTAL XYLENE	106				2220808	300.000	275	
102 n-Butylbenzene	91	10.142	10.142	(1.018)	1498442	100.000	89.1	
103 1,2-Dichlorobenzene	146	10.230	10.230	(1.027)	816047	100.000	93.5	
104 1,2-Dibromo-3-Chloropropane	157	10.741	10.741	(1.079)	106026	100.000	110	
106 1,2,4-Trichlorobenzene	180	11.281	11.281	(1.133)	526092	100.000	95.1	
107 Hexachlorobutadiene	225	11.335	11.335	(1.138)	259437	100.000	98.7	
108 Naphthalene	128	11.471	11.471	(1.152)	1397625	100.000	101	
109 1,2,3-Trichlorobenzene	180	11.642	11.642	(1.169)	500064	100.000	94.6	
140 1-Bromo-2-chloroethane	63	7.010	7.010	(1.000)	802231	100.000	96.7	7219
154 1-Chlorohexane	91	8.303	8.303	(0.994)	641074	100.000	89.1	3539
M 139 1-3 Dichloropropene-Total	100				1409699	200.000	208	0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

000128

Data File: /var/chem/msv5.i/2050613.s.b/f1899.d

Page 1

Date : 13-JUN-2005 14:06

Client ID: V5STD100

Instrument: msv5.i

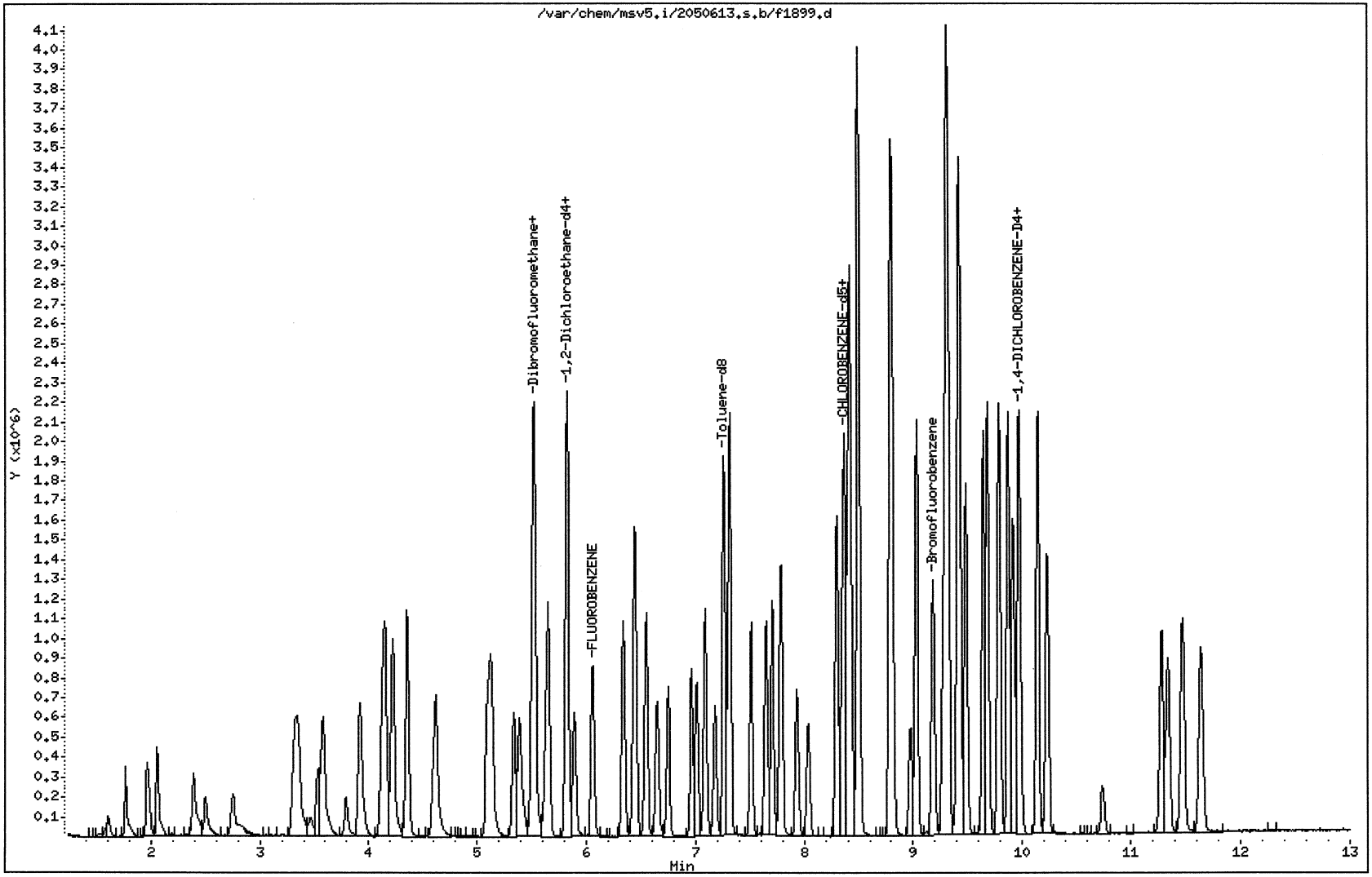
Sample Info: 1204*V5STD100*5-30-4

Purge Volume: 5.0

Operator: DLB

Column phase: DB-624-30M

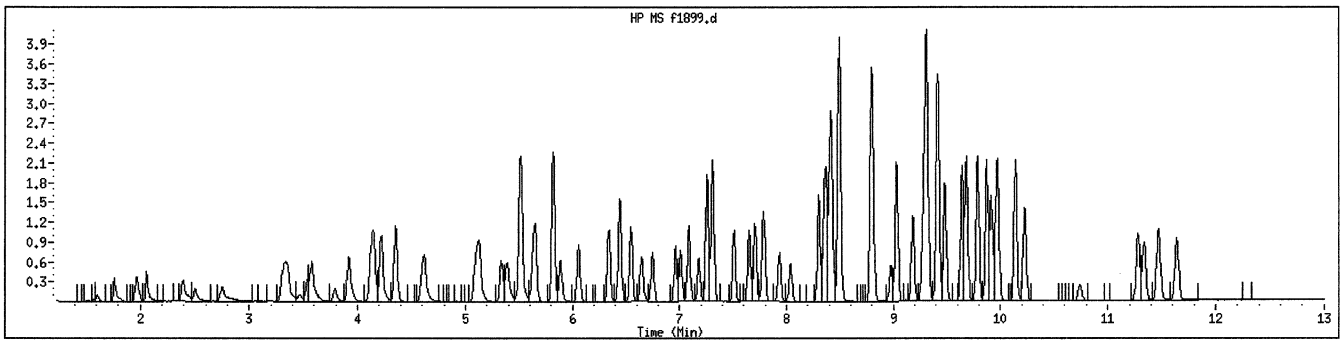
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050613.s.b/f1899.d
Report Date: 06/13/2005 20:35

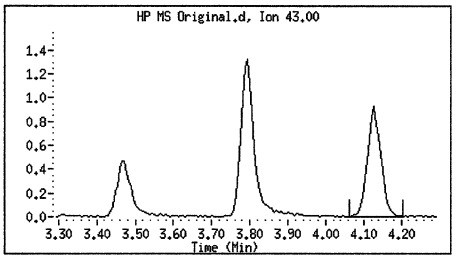
MANUAL INTEGRATION GRAPHIC REPORT

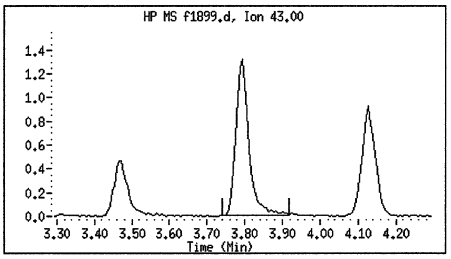
Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 13-JUN-2005 14:06	Instrument	: msv5.i
Operator	: DLB		
Sample Info	: 1204*V5STD100*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



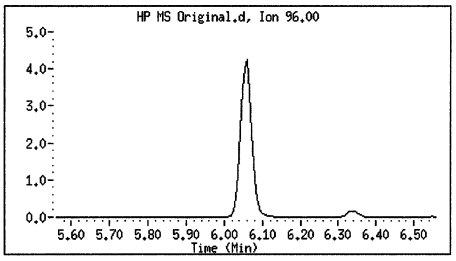
Original Final

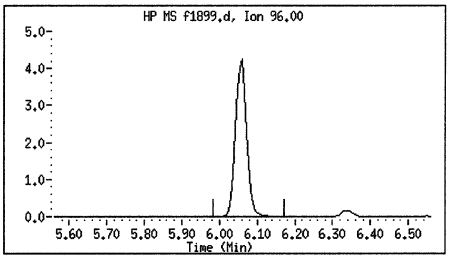
17 Methyl Acetate CAS#: 79-20-9





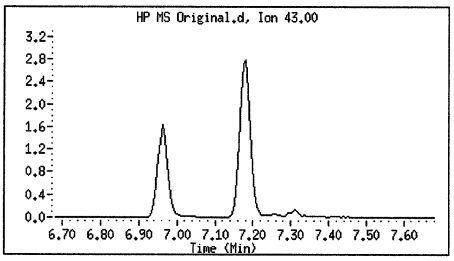
* 47 FLUOROBENZENE CAS#: 462-06-6

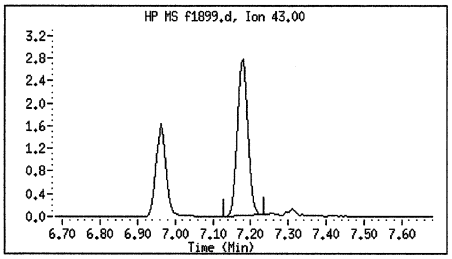




Original Final

59 4-methyl-2-pentanone CAS#: 108-10-1





GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1900.d
Lab Smp Id: 1205 Client Smp ID: V5STD200
Inj Date : 13-JUN-2005 14:31
Operator : JCK Inst ID: msv5.i
Smp Info : 1205*V5STD200*5-30-4
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 13-Jun-2005 20:35 dlb Quant Type: ISTD
Cal Date : 13-JUN-2005 14:31 Cal File: f1900.d
Als bottle: 9 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/(Ws*(100-M)/100))/5000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
m	0.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(1.000)	699443	200.000	188	
2 Chloromethane ++	50	1.970	1.970	(1.000)	1110989	200.000	193	
3 Vinyl Chloride +	62	2.058	2.058	(1.000)	962778	200.000	190	
5 Bromomethane	94	2.380	2.380	(1.000)	676692	200.000	171	
6 Chloroethane	64	2.498	2.498	(1.000)	507885	200.000	208	(A)
7 Trichlorofluoromethane	101	2.750	2.750	(1.000)	760073	200.000	202	(A)
10 Acrolein	56	3.301	3.301	(1.000)	402471	1000.00	1170	(A)
11 1,1,2Trichlotrifluoroethane	101	3.324	3.324	(1.000)	608138	200.000	185	
12 1,1-Dichloroethene +	96	3.354	3.354	(1.000)	555958	200.000	198	
13 Acetone	43	3.466	3.466	(1.000)	244933	200.000	189	
14 Methyl Iodide	142	3.536	3.536	(1.000)	1119793	200.000	208	(A)
15 Carbon Disulfide	76	3.577	3.577	(1.000)	2271420	200.000	194	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 Methyl Acetate	43	3.789	3.789	(1.000)	618327	200.000	208	9568(A)
	18 Methylene Chloride	49	3.918	3.918	(1.000)	967226	200.000	193	
	20 MTBE	73	4.129	4.129	(1.000)	1907682	200.000	196	7948
	21 trans-1,2-Dichloroethene	61	4.153	4.153	(1.000)	1077718	200.000	188	
	22 Acrylonitrile	53	4.223	4.223	(1.000)	1816811	1000.00	1000	(A)
	24 Hexane	57	4.352	4.352	(1.000)	1162494	200.000	183	8788
	27 1,1-Dichloroethane ++	63	4.593	4.593	(1.000)	1335414	200.000	200	(A)
	28 Vinyl Acetate	43	4.622	4.622	(1.000)	1645046	200.000	211	(A)
	30 2,2-Dichloropropane	77	5.097	5.097	(1.000)	939593	200.000	188	
	31 cis-1,2-Dichloroethene	61	5.127	5.127	(1.000)	1258619	200.000	200	
	32 2-Butanone	43	5.139	5.139	(1.000)	492892	200.000	180	
	35 Bromochloromethane	128	5.338	5.338	(1.000)	478491	200.000	211	(A)
	36 Chloroform +	83	5.391	5.391	(1.000)	1229929	200.000	205	(A)
	37 Cyclohexane	56	5.515	5.515	(1.000)	1345592	200.000	180	9072
$	38 Dibromofluoromethane	111	5.533	5.533	(1.000)	818432	200.000	205	8424(A)
	39 1,1,1-Trichloroethane	97	5.521	5.521	(1.000)	893817	200.000	190	
	40 Carbon Tetrachloride	117	5.627	5.627	(1.000)	794246	200.000	199	
	41 1,1-Dichloropropene	75	5.657	5.657	(1.000)	1034456	200.000	189	
M	42 Total 1,2-Dichloroethene	61				2336337	400.000	388	
	44 Benzene	78	5.821	5.821	(1.000)	3035217	200.000	181	
$	45 1,2-Dichloroethane-d4	67	5.827	5.827	(1.000)	421072	200.000	199	
	46 1,2-Dichloroethane	62	5.886	5.886	(1.000)	930237	200.000	198	
*	47 FLUOROBENZENE	96	6.056	6.056	(1.000)	815827	50.0000		(M)
	49 Trichloroethene	130	6.338	6.338	(1.000)	828769	200.000	185	
	50 Methyl Cyclohexane	83	6.444	6.444	(1.000)	1320052	200.000	187	8944
	51 1,2-Dichloropropane +	63	6.544	6.544	(1.000)	960545	200.000	198	
	55 Dibromomethane	93	6.644	6.644	(1.000)	611989	200.000	203	(A)
	56 Bromodichloromethane	83	6.750	6.750	(1.000)	1026964	200.000	209	(A)
	57 2-Chloroethyl vinyl ether	63	6.961	6.961	(1.000)	771859	200.000	202	(A)
	58 cis-1,3-Dichloropropene	75	7.090	7.090	(1.000)	1455174	200.000	208	(A)
	59 4-methyl-2-pentanone	43	7.179	7.179	(1.000)	1060293	200.000	216	(A)
$	60 Toluene-d8	98	7.261	7.261	(0.870)	2771287	200.000	177	
	61 Toluene +	91	7.308	7.308	(0.875)	3294852	200.000	174	
	63 trans-1,3-Dichloropropene	75	7.508	7.508	(0.899)	1319947	200.000	210	(A)
	64 1,1,2-Trichloroethane	97	7.649	7.649	(0.916)	811297	200.000	199	
	65 Tetrachloroethene	164	7.708	7.708	(0.923)	691456	200.000	192	
	66 1,3-Dichloropropane	76	7.779	7.779	(0.932)	1433063	200.000	193	
	67 2-Hexanone	43	7.791	7.791	(0.933)	695691	200.000	210	(A)
	68 Dibromochloromethane	129	7.938	7.938	(0.951)	938551	200.000	225	(A)
	69 1,2-Dibromoethane(EDB)	107	8.038	8.038	(0.963)	951019	200.000	204	(A)
*	70 CHLOROBENZENE-d5	82	8.349	8.349	(1.000)	351837	50.0000		
	71 Chlorobenzene ++	112	8.373	8.373	(1.003)	2298699	200.000	185	
	72 Ethylbenzene +	106	8.414	8.414	(1.008)	1219667	200.000	183	
	73 1,1,1,2-Tetrachloroethane	133	8.426	8.426	(1.009)	789538	200.000	206	(A)
	74 p,m-Xylene	106	8.497	8.497	(1.018)	2890755	400.000	354	(A)
	75 o-Xylene	106	8.791	8.791	(1.053)	1470942	200.000	187	
	76 Styrene	104	8.809	8.809	(1.055)	2535946	200.000	188	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
77 Bromoform ++	173	8.979	8.979	(1.075)	658117	200.000	227	(A)
78 Isopropylbenzene	105	9.032	9.032	(1.082)	3322240	200.000	171	
$ 80 Bromofluorobenzene	174	9.185	9.185	(1.100)	942114	200.000	190	
81 1,1,2,2-Tetrachloroethane++	83	9.274	9.274	(0.931)	1113145	200.000	214	(A)
82 Bromobenzene	77	9.298	9.298	(0.934)	2014418	200.000	190	
84 trans-1,4-Dichloro-2-Butene	53	9.310	9.310	(0.935)	255505	200.000	229	(A)
85 n-Propylbenzene	91	9.310	9.310	(0.935)	4080358	200.000	172	
86 1,2,3-Trichloropropane	75	9.322	9.322	(0.936)	1270657	200.000	221	(A)
87 2-Chlorotoluene	91	9.410	9.410	(0.945)	2596439	200.000	180	
88 1,3,5-Trimethylbenzene	105	9.422	9.422	(0.946)	2787000	200.000	180	
89 4-Chlorotoluene	91	9.481	9.481	(0.952)	2571914	200.000	186	
91 tert-butylbenzene	91	9.641	9.641	(0.968)	1834957	200.000	197	
92 1,2,4-Trimethylbenzene	105	9.682	9.682	(0.972)	2812353	200.000	178	
96 sec-Butylbenzene	105	9.788	9.788	(0.983)	3707406	200.000	174	
97 p-Isopropyltoluene	119	9.871	9.871	(0.991)	2978456	200.000	176	
98 1,3-Dichlorobenzene	146	9.913	9.913	(0.995)	1688988	200.000	182	
* 99 1,4-DICHLOROBENZENE-D4	152	9.960	9.960	(1.000)	303411	50.0000		
100 1,4-Dichlorobenzene	146	9.978	9.978	(1.002)	1768786	200.000	186	
M 101 TOTAL XYLENE	106				4361697	600.000	541	
102 n-Butylbenzene	91	10.137	10.137	(1.018)	2820063	200.000	172	
103 1,2-Dichlorobenzene	146	10.226	10.226	(1.027)	1565492	200.000	184	
104 1,2-Dibromo-3-Chloropropane	157	10.743	10.743	(1.079)	201554	200.000	214	(A)
106 1,2,4-Trichlorobenzene	180	11.277	11.277	(1.132)	1039531	200.000	193	
107 Hexachlorobutadiene	225	11.337	11.337	(1.138)	537026	200.000	209	(A)
108 Naphthalene	128	11.473	11.473	(1.152)	2580000	200.000	191	
109 1,2,3-Trichlorobenzene	180	11.644	11.644	(1.169)	972754	200.000	189	
140 1-Bromo-2-chloroethane	63	7.008	7.008	(1.000)	1476368	200.000	186	7173
154 1-Chlorohexane	91	8.302	8.302	(0.994)	1296981	200.000	180	9857
M 139 1-3 Dichloropropene-Total	100				2775121	400.000	419	0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /var/chem/msv5.i/2050613.s.b/f1900.d

Date : 13-JUN-2005 14:31

Client ID: V5STD200

Instrument: msv5.i

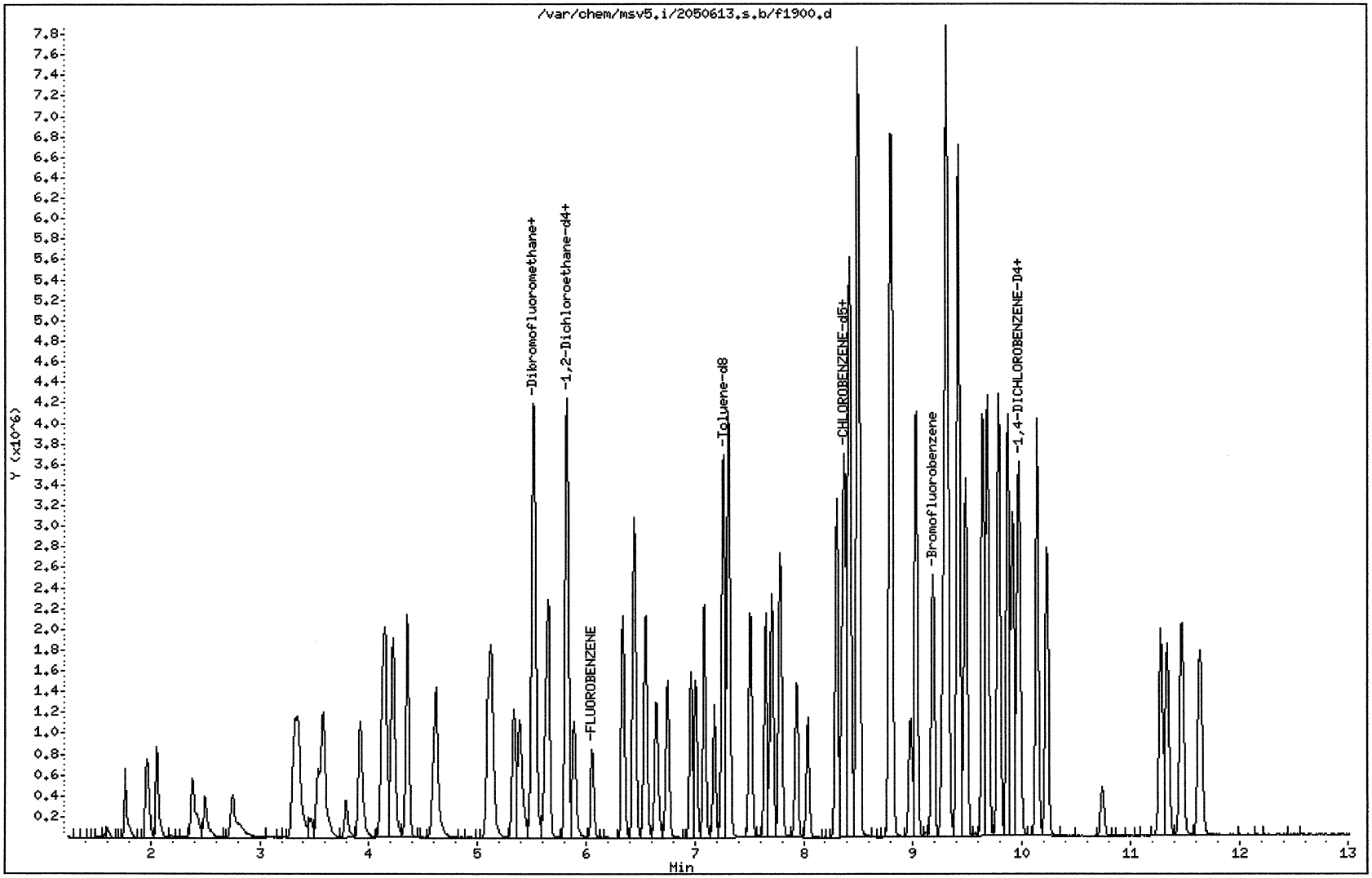
Sample Info: 1205*V5STD200*5-30-4

Purge Volume: 5.0

Operator: JCK

Column phase: DB-624-30M

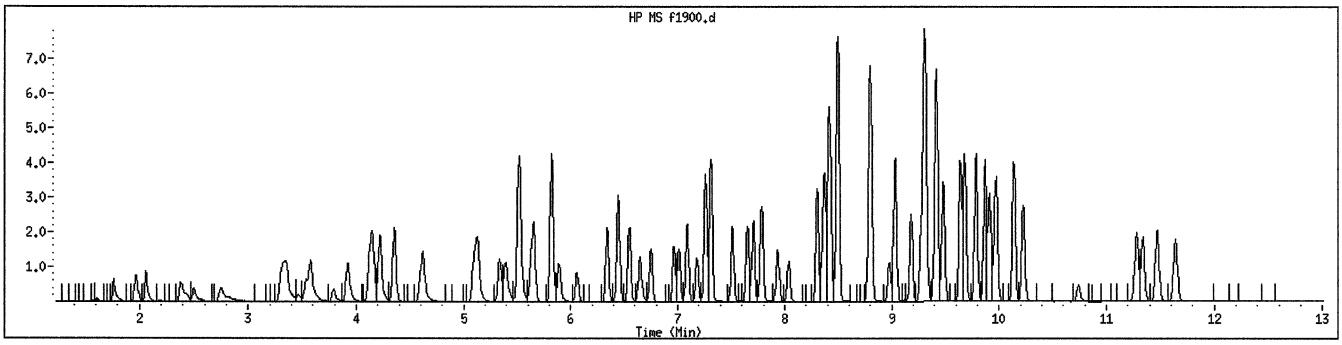
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050613.s.b/f1900.d
Report Date: 06/13/2005 20:35

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 13-JUN-2005 14:31	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1205*V5STD200*5-30-4		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

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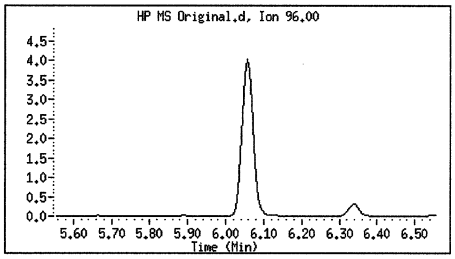
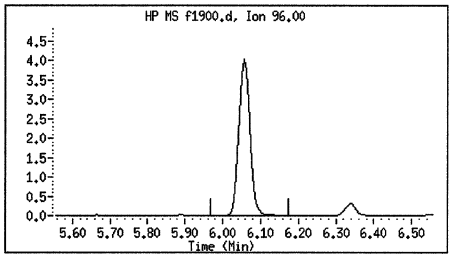
* 47 FLUOROBENZENE CAS#: 462-06-6





Data file : /var/chem/msv5.i/2050613.s.b/f1902.d
Report Date: 06/15/2005 17:07

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Misc Info: MSV~6400~*1*DLB

Client SDG: 2050613.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: DLB
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluoromethane	50.0	46.8	93.60	75-125
2 Chloromethane ++	50.0	43.7	87.50	75-125
3 Vinyl Chloride +	50.0	44.9	89.78	75-125
5 Bromomethane	50.0	45.7	91.40	75-125
6 Chloroethane	50.0	51.5	102.96	75-125
7 Trichlorofluoromethane	50.0	38.6	77.20	75-125
10 Acrolein	250	293	117.08	75-125
11 1,1,2Trichlotrifluoroethane	50.0	45.2	90.36	75-125
12 1,1-Dichloroethene +	50.0	45.5	91.07	75-125
13 Acetone	50.0	50.6	101.19	75-125
14 Methyl Iodide	50.0	44.6	89.10	75-125
15 Carbon Disulfide	50.0	45.5	90.99	75-125
18 Methylene Chloride	50.0	41.2	82.38	75-125
20 MTBE	50.0	48.7	97.45	75-125
21 trans-1,2-Dichloroethene	50.0	45.5	91.02	75-125
22 Acrylonitrile	250	261	104.35	75-125
27 1,1-Dichloroethane ++	50.0	46.6	93.18	75-125
28 Vinyl Acetate	50.0	51.5	103.08	75-125
30 2,2-Dichloropropane	50.0	43.8	87.63	75-125
31 cis-1,2-Dichloroethene	50.0	47.2	94.37	75-125
32 2-Butanone	50.0	48.5	97.01	75-125
35 Bromochloromethane	50.0	49.9	99.82	75-125
36 Chloroform +	50.0	48.1	96.11	75-125
39 1,1,1-Trichloroethane	50.0	45.1	90.24	75-125
40 Carbon Tetrachloride	50.0	45.1	90.18	75-125
41 1,1-Dichloropropene	50.0	45.6	91.16	75-125
44 Benzene	50.0	45.4	90.81	75-125
46 1,2-Dichloroethane	50.0	47.9	95.80	75-125
49 Trichloroethene	50.0	43.7	87.47	75-125
51 1,2-Dichloropropane +	50.0	46.2	92.31	75-125

Data file : /var/chem/msv5.i/2050613.s.b/f1902.d
Report Date: 06/15/2005 17:07

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
55	Dibromomethane	50.0	49.7	99.33	75-125
56	Bromodichloromethane	50.0	49.1	98.12	75-125
57	2-Chloroethyl vinyl ether	50.0	47.9	95.74	75-125
58	cis-1,3-Dichloropropene	50.0	49.7	99.44	75-125
59	4-methyl-2-pentanone	50.0	56.0	112.08	75-125
61	Toluene +	50.0	44.1	88.22	75-125
63	trans-1,3-Dichloropropene	50.0	49.4	98.81	75-125
64	1,1,2-Trichloroethane	50.0	48.6	97.10	75-125
65	Tetrachloroethene	50.0	45.6	91.23	75-125
66	1,3-Dichloropropane	50.0	47.2	94.33	75-125
67	2-Hexanone	50.0	54.9	109.83	75-125
68	Dibromochloromethane	50.0	50.8	101.52	75-125
69	1,2-Dibromoethane(EDB)	50.0	49.6	99.11	75-125
71	Chlorobenzene ++	50.0	45.4	90.81	75-125
72	Ethylbenzene +	50.0	44.3	88.56	75-125
73	1,1,1,2-Tetrachloroethane	50.0	47.7	95.41	75-125
74	p,m-Xylene	100	87.6	87.62	75-125
75	o-Xylene	50.0	45.3	90.50	75-125
76	Styrene	50.0	46.1	92.26	75-125
77	Bromoform ++	50.0	52.7	105.49	75-125
78	Isopropylbenzene	50.0	43.4	86.73	75-125
81	1,1,2,2-Tetrachloroethane++	50.0	56.2	112.34	75-125
82	Bromobenzene	50.0	49.4	98.88	75-125
84	trans-1,4-Dichloro-2-Butene	50.0	53.3	106.67	75-125
85	n-Propylbenzene	50.0	45.6	91.20	75-125
86	1,2,3-Trichloropropane	50.0	52.9	105.85	75-125
87	2-Chlorotoluene	50.0	47.6	95.10	75-125
88	1,3,5-Trimethylbenzene	50.0	46.8	93.51	75-125
89	4-Chlorotoluene	50.0	47.5	94.96	75-125
91	tert-butylbenzene	50.0	49.0	98.00	75-125
92	1,2,4-Trimethylbenzene	50.0	46.0	91.92	75-125
96	sec-Butylbenzene	50.0	45.5	90.95	75-125
97	p-Isopropyltoluene	50.0	46.5	93.00	75-125
98	1,3-Dichlorobenzene	50.0	47.0	94.02	75-125
100	1,4-Dichlorobenzene	50.0	46.9	93.71	75-125
102	n-Butylbenzene	50.0	45.2	90.40	75-125
103	1,2-Dichlorobenzene	50.0	46.0	92.03	75-125
104	1,2-Dibromo-3-Chloropropane	50.0	54.6	109.16	75-125
106	1,2,4-Trichlorobenzene	50.0	47.3	94.70	75-125
107	Hexachlorobutadiene	50.0	50.6	101.29	75-125
108	Naphthalene	50.0	53.4	106.77	75-125
109	1,2,3-Trichlorobenzene	50.0	45.7	91.44	75-125

Data file : /var/chem/msv5.i/2050613.s.b/f1902.d
Report Date: 06/15/2005 17:07

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 38 Dibromofluoromethane	50.0	47.2	94.39	77-127
$ 45 1,2-Dichloroethane-d4	50.0	49.5	98.91	71-127
$ 60 Toluene-d8	50.0	44.2	88.31	76-134
$ 80 Bromofluorobenzene	50.0	46.5	92.94	78-130

GCAL, Inc.

Data file : /var/chem/msv5.i/2050613.s.b/f1902.d
Lab Smp Id: 1600 Client Smp ID: 8260ICV
Inj Date : 13-JUN-2005 15:21
Operator : DLB Inst ID: msv5.i
Smp Info : 1600*8260ICV*
Misc Info : MSV~6400~*1*DLB
Comment :
Method : /var/chem/msv5.i/2050613.s.b/8260Bw5.m
Meth Date : 15-Jun-2005 17:06 rjo Quant Type: ISTD
Cal Date : 13-JUN-2005 12:53 Cal File: f1896.d
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.765	1.765	(0.291)	185145	46.7986	46.8	
2 Chloromethane ++	50	1.970	1.964	(0.325)	267956	43.7484	43.7	
3 Vinyl Chloride +	62	2.058	2.058	(0.340)	241242	44.8913	44.9	
5 Bromomethane	94	2.397	2.392	(0.396)	192233	45.6993	45.7	
6 Chloroethane	64	2.509	2.503	(0.414)	133470	51.4791	51.5	
7 Trichlorofluoromethane	101	2.761	2.755	(0.456)	149586	38.5977	38.6	
10 Acrolein	56	3.306	3.305	(0.546)	106934	292.693	293	(A)
11 1,1,2Trichlotrifluoroethane	101	3.329	3.329	(0.550)	157962	45.1798	45.2	
12 1,1-Dichloroethene +	96	3.359	3.352	(0.555)	135818	45.5335	45.5	
13 Acetone	43	3.470	3.470	(0.573)	69688	50.5961	50.6	
14 Methyl Iodide	142	3.541	3.540	(0.585)	255011	44.5512	44.6	
15 Carbon Disulfide	76	3.582	3.581	(0.591)	564910	45.4974	45.5	
17 Methyl Acetate	43	3.799	3.798	(0.627)	170796	54.0347	54.0	9594
18 Methylene Chloride	49	3.928	3.927	(0.648)	248299	41.1887	41.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.127	4.131	(0.681)	504980	48.7228	48.7	7564
	21 trans-1,2-Dichloroethene	61	4.156	4.149	(0.686)	276538	45.5102	45.5	
	22 Acrylonitrile	53	4.221	4.220	(0.697)	502355	260.868	261	(A)
	24 Hexane	57	4.356	4.360	(0.719)	298048	44.1637	44.2	8839
	27 1,1-Dichloroethane ++	63	4.596	4.594	(0.759)	330132	46.5879	46.6	
	28 Vinyl Acetate	43	4.620	4.624	(0.763)	426125	51.5401	51.5	
	30 2,2-Dichloropropane	77	5.100	5.092	(0.842)	232619	43.8147	43.8	
	31 cis-1,2-Dichloroethene	61	5.123	5.121	(0.846)	316142	47.1852	47.2	
	32 2-Butanone	43	5.141	5.145	(0.849)	141033	48.5035	48.5	
	35 Bromochloromethane	128	5.340	5.332	(0.882)	120348	49.9102	49.9	
	36 Chloroform +	83	5.387	5.391	(0.889)	307062	48.0566	48.1	
	37 Cyclohexane	56	5.517	5.520	(0.911)	353013	44.5564	44.6	9138
$	38 Dibromofluoromethane	111	5.535	5.532	(0.914)	200657	47.1975	47.2	8569
	39 1,1,1-Trichloroethane	97	5.517	5.514	(0.911)	225566	45.1196	45.1	
	40 Carbon Tetrachloride	117	5.634	5.631	(0.930)	191621	45.0886	45.1	
	41 1,1-Dichloropropene	75	5.658	5.649	(0.934)	264842	45.5824	45.6	
M	42 Total 1,2-Dichloroethene	61				592680	92.6954	92.7	
	44 Benzene	78	5.822	5.819	(0.961)	808490	45.4049	45.4	
$	45 1,2-Dichloroethane-d4	67	5.828	5.825	(0.962)	111329	49.4526	49.5	
	46 1,2-Dichloroethane	62	5.893	5.889	(0.973)	239596	47.8982	47.9	
*	47 FLUOROBENZENE	96	6.057	6.053	(1.000)	866874	50.0000		
	49 Trichloroethene	130	6.344	6.340	(1.047)	208604	43.7356	43.7	
	50 Methyl Cyclohexane	83	6.444	6.434	(1.064)	337491	45.0445	45.0	8986
	51 1,2-Dichloropropane +	63	6.550	6.546	(1.081)	237680	46.1542	46.2	
	55 Dibromomethane	93	6.650	6.645	(1.098)	159404	49.6631	49.7	
	56 Bromodichloromethane	83	6.749	6.751	(1.114)	255731	49.0614	49.1	
	57 2-Chloroethyl vinyl ether	63	6.966	6.967	(1.150)	186893	47.8712	47.9	
	58 cis-1,3-Dichloropropene	75	7.090	7.091	(1.170)	368914	49.7214	49.7	
	59 4-methyl-2-pentanone	43	7.178	7.179	(1.185)	292153	56.0414	56.0	
$	60 Toluene-d8	98	7.260	7.255	(0.869)	734496	44.1529	44.2	
	61 Toluene +	91	7.313	7.308	(0.876)	883877	44.1091	44.1	
	63 trans-1,3-Dichloropropene	75	7.513	7.513	(0.899)	328877	49.4025	49.4	
	64 1,1,2-Trichloroethane	97	7.653	7.648	(0.916)	209822	48.5524	48.6	
	65 Tetrachloroethene	164	7.706	7.706	(0.923)	173855	45.6125	45.6	
	66 1,3-Dichloropropane	76	7.783	7.777	(0.932)	371658	47.1643	47.2	
	67 2-Hexanone	43	7.795	7.800	(0.933)	192447	54.9158	54.9	
	68 Dibromochloromethane	129	7.936	7.929	(0.950)	224061	50.7589	50.8	
	69 1,2-Dibromoethane(EDB)	107	8.041	8.040	(0.963)	244759	49.5546	49.6	
*	70 CHLOROBENZENE-d5	82	8.352	8.345	(1.000)	372858	50.0000		
	71 Chlorobenzene ++	112	8.376	8.375	(1.003)	598175	45.4032	45.4	
	72 Ethylbenzene +	106	8.417	8.410	(1.008)	313483	44.2786	44.3	
	73 1,1,1,2-Tetrachloroethane	133	8.429	8.428	(1.009)	194130	47.7057	47.7	
	74 p,m-Xylene	106	8.500	8.498	(1.018)	758748	87.6236	87.6	
	75 o-Xylene	106	8.793	8.791	(1.053)	376425	45.2500	45.3	
	76 Styrene	104	8.811	8.803	(1.055)	660886	46.1281	46.1	
	77 Bromoform ++	173	8.975	8.973	(1.075)	162235	52.7446	52.7	
	78 Isopropylbenzene	105	9.034	9.032	(1.082)	890598	43.3638	43.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.187	9.184	(1.100)	243583	46.4706	46.5	
81 1,1,2,2-Tetrachloroethane++	83	9.275	9.272	(0.931)	306571	56.1707	56.2	
82 Bromobenzene	77	9.299	9.296	(0.934)	548276	49.4422	49.4	
84 trans-1,4-Dichloro-2-Butene	53	9.311	9.320	(0.935)	69201	53.3367	53.3	
85 n-Propylbenzene	91	9.311	9.308	(0.935)	1137035	45.5994	45.6	
86 1,2,3-Trichloropropane	75	9.323	9.320	(0.936)	352030	52.9258	52.9	
87 2-Chlorotoluene	91	9.411	9.408	(0.945)	718377	47.5506	47.6	
88 1,3,5-Trimethylbenzene	105	9.423	9.420	(0.946)	757414	46.7534	46.8	
89 4-Chlorotoluene	91	9.488	9.479	(0.953)	687228	47.4803	47.5	
91 tert-butylbenzene	91	9.641	9.637	(0.968)	477329	48.9995	49.0	
92 1,2,4-Trimethylbenzene	105	9.682	9.684	(0.972)	761211	45.9579	46.0	
96 sec-Butylbenzene	105	9.788	9.784	(0.983)	1016599	45.4735	45.5	
97 p-Isopropyltoluene	119	9.871	9.866	(0.991)	823132	46.5011	46.5	
98 1,3-Dichlorobenzene	146	9.912	9.913	(0.995)	457445	47.0105	47.0	
* 99 1,4-DICHLOROBENZENE-D4	152	9.959	9.961	(1.000)	318064	50.0000		
100 1,4-Dichlorobenzene	146	9.977	9.978	(1.002)	465881	46.8570	46.9	
M 101 TOTAL XYLENE	106				1135173	132.874	133	
102 n-Butylbenzene	91	10.142	10.137	(1.018)	776860	45.1989	45.2	
103 1,2-Dichlorobenzene	146	10.230	10.225	(1.027)	410757	46.0137	46.0	
104 1,2-Dibromo-3-Chloropropane	157	10.741	10.741	(1.078)	53895	54.5808	54.6	
106 1,2,4-Trichlorobenzene	180	11.281	11.281	(1.133)	267698	47.3493	47.3	
107 Hexachlorobutadiene	225	11.340	11.334	(1.139)	136098	50.6438	50.6	
108 Naphthalene	128	11.476	11.475	(1.152)	755886	53.3870	53.4	
109 1,2,3-Trichlorobenzene	180	11.640	11.640	(1.169)	246934	45.7176	45.7	
140 1-Bromo-2-chloroethane	63	7.007	7.009	(1.157)	400755	47.6024	47.6	7224
154 1-Chlorohexane	91	8.305	8.298	(0.994)	337611	44.3242	44.3	9739
M 139 1-3 Dichloropropene-Total	100				697791	99.1239	99.1	0

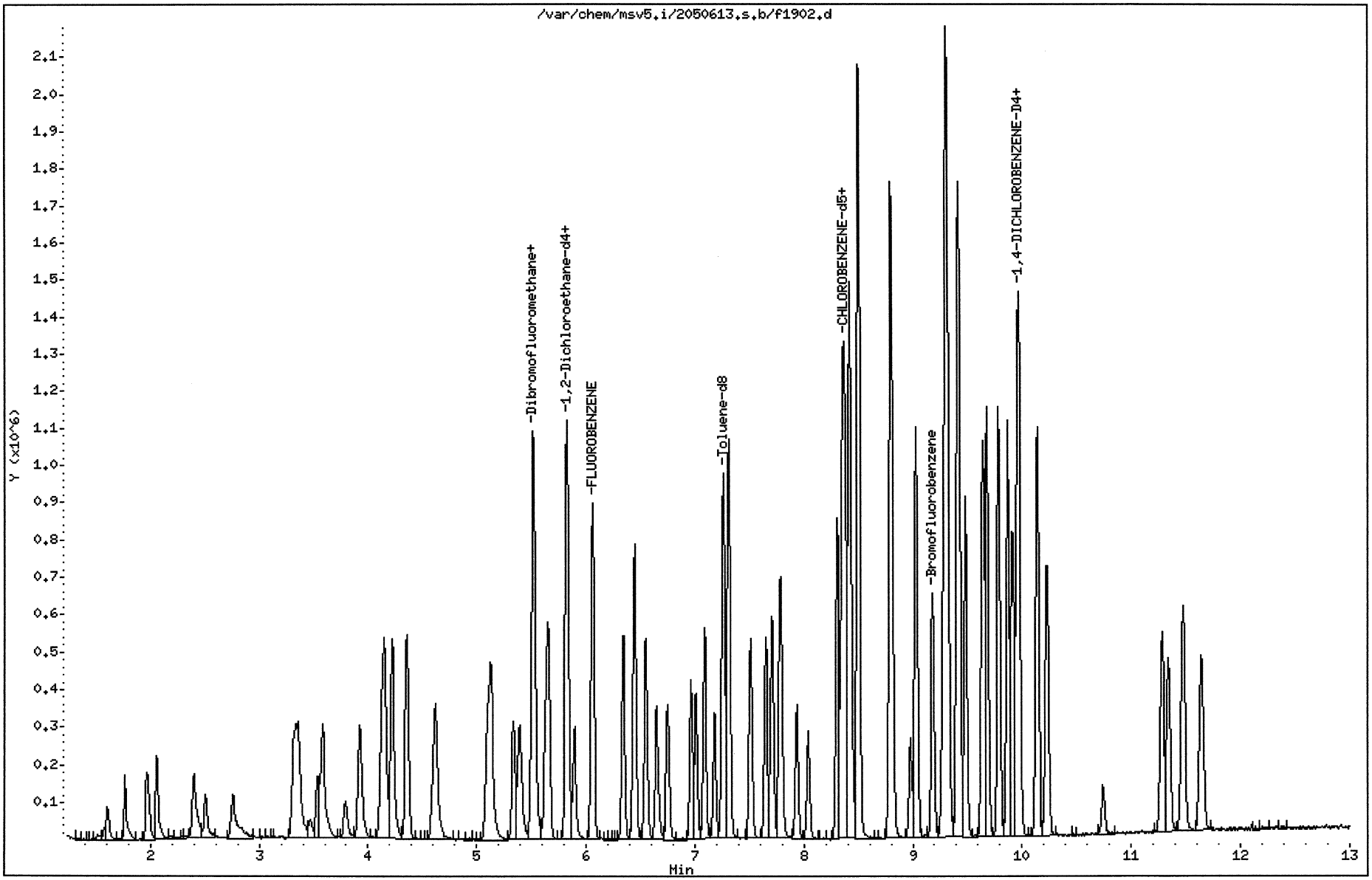
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

000142

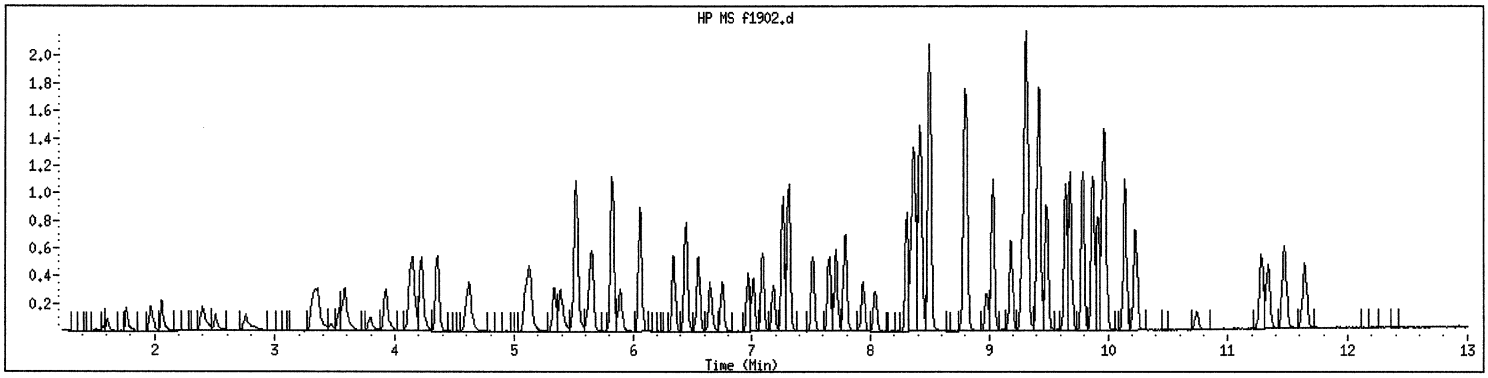
Data File: /var/chem/msv5.i/2050613.s.b/f1902.d
Date : 13-JUN-2005 15:21
Client ID: 8260ICV
Sample Info: 1600*8260ICV*
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i
Operator: DLB
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 13-JUN-2005 15:21	Instrument	: msv5.i
Operator	: DLB		
Sample Info	: 1600*8260ICV*		
Misc Info	: MSV~6400~*1*DLB		
Method	: /var/chem/msv5.i/2050613.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Instrument ID: MSV5

Calibration Date: 06/20/05 Time: 0735

Lab File ID: 2050620/F2175

Init. Calib. Date 1: 06/13/05 Time 1: 1204

Heated Purge: (Y/N) N

Init. Calib. Date 2: 06/13/05 Time 2: 1431

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 293940

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
Acetone	0.079	0.105	0	31.6	50	A
Acrolein	0.021	0.024	0	15.4	50	A
Acrylonitrile	0.111	0.118	0	6.64	50	A
Bromochloromethane	0.139	0.141	0	1.51	50	A
Bromodichloromethane	0.301	0.320	0	6.41	50	A
Bromoform	0.412	0.522	.1	26.5	50	A
Bromomethane	0.243	0.205	0	-15.3	50	A
Carbon disulfide	0.716	0.664	0	-7.22	50	A
Carbon tetrachloride	0.245	0.238	0	-2.74	50	A
Chloroethane	0.150	0.148	0	-.83	50	A
m,p-Xylene	1.161	1.146	0	-1.3	50	A
Chloroform	0.369	0.363	0	-1.43	20	A
Chloromethane	0.353	0.313	.1	-11.4	50	A
Dibromochloromethane	0.592	0.697	0	17.7	50	A
Dibromomethane	0.185	0.185	0	-.05	50	A
Dichlorodifluoromethane	0.228	0.222	0	-2.8	50	A
1,1-Dichloroethane	0.409	0.395	.1	-3.4	50	A
1,2-Dichloroethane	0.289	0.292	0	1.1	50	A
cis-1,2-Dichloroethene	0.386	0.383	0	-.81	50	A
trans-1,2-Dichloroethene	0.350	0.327	0	-6.58	50	A
Methylene chloride	50.0	51.3	0	2.6	50	L
1,2-Dichloropropane	0.297	0.295	0	-.84	20	A
cis-1,3-Dichloropropene	0.428	0.462	0	7.87	50	A
trans-1,3-Dichloropropene	0.893	0.977	0	9.39	50	A
Ethylbenzene	0.949	0.942	0	-.77	20	A
2-Hexanone	0.470	0.577	0	22.7	50	A
Isopropylbenzene (Cumene)	2.754	2.628	0	-4.6	50	A
2-Butanone	0.168	0.215	0	28.4	50	A
Methyl iodide	0.330	0.300	0	-9.08	50	A
4-Methyl-2-pentanone	0.301	0.352	0	17	50	A
n-Propylbenzene	3.920	3.938	0	.46	50	A
Styrene	1.921	2.007	0	4.48	50	A
Tetrachloroethene	0.511	0.489	0	-4.31	50	A
1,1,1,2-Tetrachloroethane	0.546	0.567	0	3.98	50	A
1,1,2,2-Tetrachloroethane	0.858	1.072	.3	25	50	A
1,2,4-Trichlorobenzene	0.889	0.891	0	.22	50	A
1,1,1-Trichloroethane	0.288	0.282	0	-2.23	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Instrument ID: MSV5

Calibration Date: 06/20/05 Time: 0735

Lab File ID: 2050620/F2175

Init. Calib. Date 1: 06/13/05 Time 1: 1204

Heated Purge: (Y/N) N

Init. Calib. Date 2: 06/13/05 Time 2: 1431

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 293940

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
1,1,2-Trichloroethane	0.580	0.628	0	8.42	50	A
Trichlorofluoromethane	50.0	45.6	0	-8.8	50	L
1,2,3-Trichloropropane	50.0	57.2	0	14.4	50	L
1,2,4-Trimethylbenzene	2.604	2.633	0	1.13	50	A
1,3,5-Trimethylbenzene	2.547	2.565	0	.71	50	A
Vinyl chloride	0.310	0.285	0	-7.98	20	A
o-Xylene	1.116	1.119	0	.31	50	A
1,2-Dibromo-3-chloropropane	0.155	0.194	0	25.3	50	A
1,2-Dibromoethane	0.662	0.716	0	8.18	50	A
Vinyl acetate	0.477	0.544	0	14.1	50	A
tert-Butyl methyl ether (MTBE)	0.598	0.633	0	5.9	50	A
1,2-Dichloroethene	0.368	0.355	0	-3.55	50	A
4-Isopropyltoluene	2.783	2.709	0	-2.65	50	A
Xylene (total)	1.146	1.137	0	-.78	50	A
Methylcyclohexane	0.432	0.407	0	-5.71	50	A
n-Hexane	0.389	0.374	0	-3.8	50	A
trans-1,4-Dichloro-2-butene	50.0	56.9	0	13.8	50	L
Cyclohexane	0.457	0.439	0	-3.9	50	A
2,2-Dichloropropane	0.306	0.291	0	-5.04	50	A
Methyl Acetate	0.182	0.186	0	2.26	50	A
Trichlorotrifluoroethane	0.202	0.180	0	-10.8	50	A
1,1-Dichloropropene	0.335	0.321	0	-4.3	50	A
2-Chloroethylvinyl ether	50.0	54.1	0	8.2	50	L
1,3-Dichloropropane	1.057	1.078	0	2.05	50	A
Bromobenzene	1.743	1.833	0	5.17	50	A
2-Chlorotoluene	2.375	2.472	0	4.08	50	A
4-Chlorotoluene	2.275	2.358	0	3.64	50	A
tert-Butylbenzene	1.531	1.620	0	5.8	50	A
sec-Butylbenzene	3.514	3.461	0	-1.52	50	A
1,3-Dichlorobenzene	1.530	1.544	0	.92	50	A
1,4-Dichlorobenzene	1.563	1.575	0	.77	50	A
n-Butylbenzene	2.702	2.641	0	-2.27	50	A
1,2-Dichlorobenzene	1.403	1.399	0	-.28	50	A
Hexachlorobutadiene	0.422	0.436	0	3.3	50	A
Naphthalene	2.226	2.532	0	13.8	50	A
1,2,3-Trichlorobenzene	0.849	0.862	0	1.49	50	A
1-Bromo-2-chloroethane	0.486	0.471	0	-2.92	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Instrument ID: MSV5

Calibration Date: 06/20/05 Time: 0735

Lab File ID: 2050620/F2175

Init. Calib. Date 1: 06/13/05 Time 1: 1204

Heated Purge: (Y/N) N

Init. Calib. Date 2: 06/13/05 Time 2: 1431

GC Column: DB-624-30M ID: .53 (mm)

Analytical Batch: 293940

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
1-Chlorohexane	1.021	0.956	0	-6.37	50	A
1,3-Dichloropropylene	0.401	0.431		7.58		A
1,1-Dichloroethene	0.172	0.149	0	-13.2	20	A
Benzene	1.027	1.001	0	-2.58	50	A
Trichloroethene	0.275	0.258	0	-6.14	50	A
Toluene	2.687	2.668	0	-.72	20	A
Chlorobenzene	1.767	1.743	.3	-1.37	50	A
4-Bromofluorobenzene	0.703	0.750	0	6.71	50	A
Dibromofluoromethane	0.245	0.253	0	3.19	50	A
Toluene-d8	2.231	2.370	0	6.24	50	A
1,2-Dichloroethane-d4	0.130	0.136	0	4.44	50	A

FORM V II VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2173.d
Lab Smp Id: 1000 Client Smp ID: V5BFB
Inj Date : 20-JUN-2005 06:23
Operator : KCB Inst ID: msv5.i
Smp Info : 1000*V5BFB
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/bfb1.m
Meth Date : 17-May-2005 10:15 mef Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * VI * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
VI	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.169	9.611	(0.000)	95	93496			100.00- 100.00	100.00
9.169	9.611	(0.000)	50	15614			15.00- 40.00	16.70
9.169	9.611	(0.000)	75	38165			30.00- 60.00	40.82
9.169	9.611	(0.000)	96	5651			5.00- 9.00	6.04
9.169	9.611	(0.000)	173	0			0.00- 2.00	0.00
9.169	9.611	(0.000)	174	83074			50.00- 120.00	88.85
9.169	9.611	(0.000)	175	6780			5.00- 9.00	8.16
9.169	9.611	(0.000)	176	80952			95.00- 101.00	97.45
9.169	9.611	(0.000)	177	5456			5.00- 9.00	6.74

Data File: /var/chem/msv5.i/2050620.s.b/f2173.d

Date : 20-JUN-2005 06:23

Client ID: V5BFB

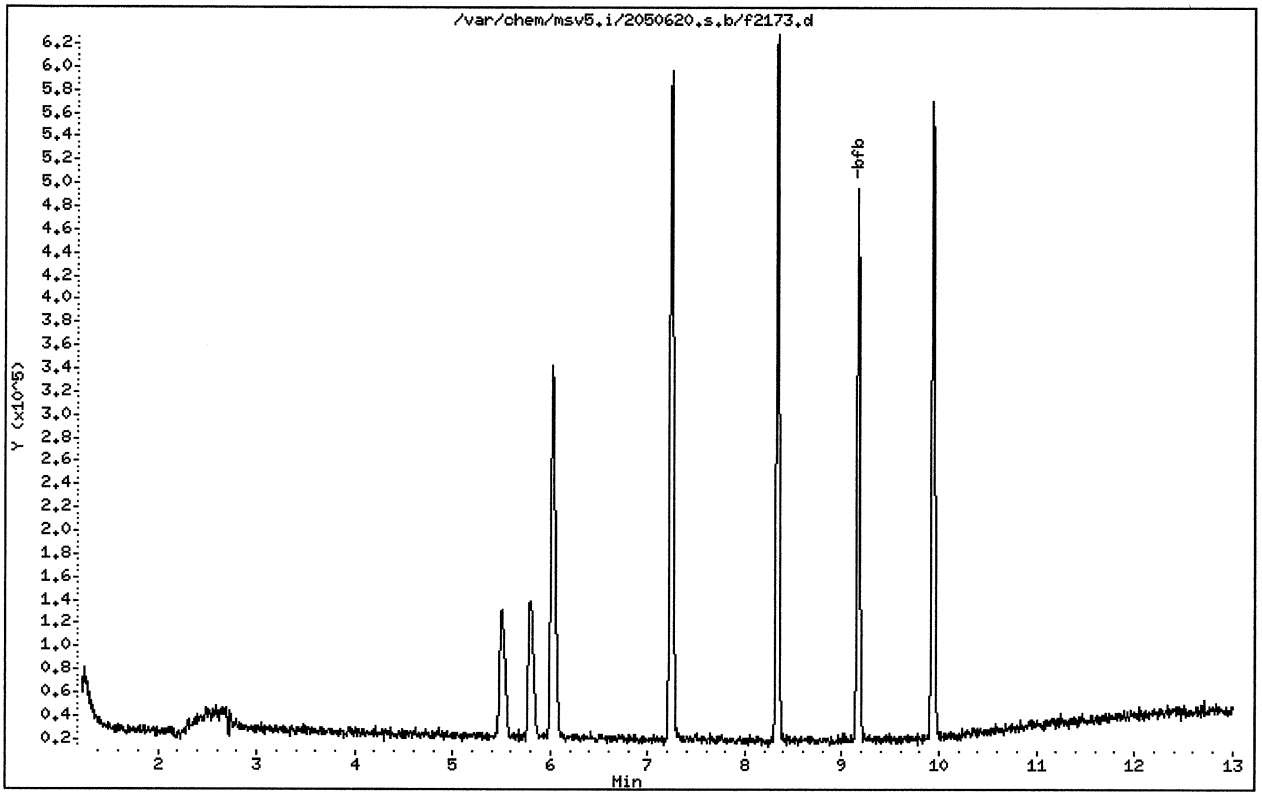
Instrument: msv5.i

Sample Info: 1000xV5BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv5.i/2050620.s.b/f2173.d

Date : 20-JUN-2005 06:23

Client ID: V5BFB

Instrument: msv5.i

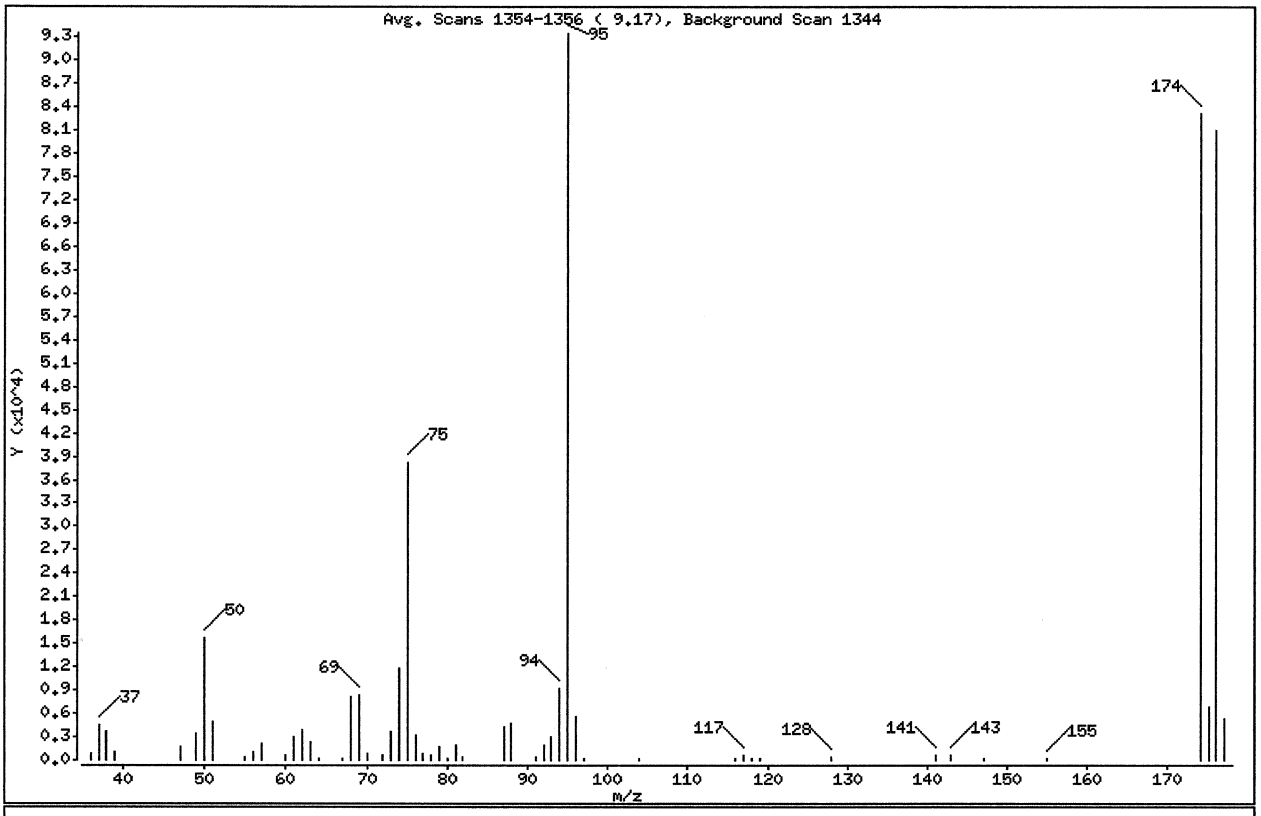
Sample Info: 1000*V5BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.70
75	30.00 - 60.00% of mass 95	40.82
96	5.00 - 9.00% of mass 95	6.04
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	88.85
175	5.00 - 9.00% of mass 174	7.25 (8.16)
176	95.00 - 101.00% of mass 174	86.58 (97.45)
177	5.00 - 9.00% of mass 176	5.84 (6.74)

Data File: /var/chem/msv5.i/2050620.s.b/f2173.d

Date : 20-JUN-2005 06:23

Client ID: V5BFB

Instrument: msv5.i

Sample Info: 1000*V5BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53

Data File: f2173.d

Spectrum: Avg. Scans 1354-1356 (9.17), Background Scan 1344

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	793	63.00	2311	80.00	304	117.00	545
37.00	4416	64.00	203	81.00	1954	118.00	135
38.00	3712	67.00	168	82.00	526	119.00	296
39.00	1054	68.00	8179	87.00	4212	128.00	402
47.00	1745	69.00	8369	88.00	4762	141.00	682
49.00	3447	70.00	814	91.00	325	143.00	595
50.00	15614	72.00	556	92.00	1981	147.00	133
51.00	5012	73.00	3579	93.00	3019	155.00	140
55.00	357	74.00	11815	94.00	9194	174.00	83072
56.00	995	75.00	38160	95.00	93496	175.00	6780
57.00	2178	76.00	3146	96.00	5651	176.00	80952
60.00	692	77.00	764	97.00	140	177.00	5456
61.00	2953	78.00	597	104.00	317		
62.00	3813	79.00	1750	116.00	196		

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2175.d
Lab Smp Id: 1400 Client Smp ID: V5STD050
Inj Date : 20-JUN-2005 07:35
Operator : KCB Inst ID: msv5.i
Smp Info : 1400*V5STD050*5-30-04
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:52 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.759	1.759	(0.291)	177136	50.0000	48.6	
2 Chloromethane ++	50	1.952	1.952	(0.323)	249817	50.0000	44.3	
3 Vinyl Chloride +	62	2.046	2.046	(0.338)	227782	50.0000	46.0	
5 Bromomethane	94	2.387	2.387	(0.395)	164106	50.0000	42.3	
6 Chloroethane	64	2.492	2.492	(0.412)	118445	50.0000	49.6	
7 Trichlorofluoromethane	101	2.739	2.739	(0.453)	163998	50.0000	45.6	
10 Acrolein	56	3.284	3.284	(0.543)	97108	250.000	289	(A)
11 1,1,2Trichlotrifluoroethane	101	3.307	3.307	(0.547)	143665	50.0000	44.6	
12 1,1-Dichloroethene +	96	3.343	3.343	(0.553)	119206	50.0000	43.4	
13 Acetone	43	3.448	3.448	(0.570)	83528	50.0000	65.8	
14 Methyl Iodide	142	3.519	3.519	(0.582)	239743	50.0000	45.5	
15 Carbon Disulfide	76	3.560	3.560	(0.589)	530674	50.0000	46.4	
17 Methyl Acetate	43	3.777	3.777	(0.625)	148889	50.0000	51.1	8094
18 Methylene Chloride	49	3.906	3.906	(0.646)	283695	50.0000	51.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.117	4.117	(0.681)	505591	50.0000	52.9	8228
	21 trans-1,2-Dichloroethene	61	4.141	4.141	(0.685)	261491	50.0000	46.7	
	22 Acrylonitrile	53	4.205	4.205	(0.695)	472978	250.000	267	(A)
	24 Hexane	57	4.340	4.340	(0.718)	299068	50.0000	48.1	8896
	27 1,1-Dichloroethane ++	63	4.580	4.580	(0.757)	315313	50.0000	48.3	
	28 Vinyl Acetate	43	4.610	4.610	(0.762)	434466	50.0000	57.0	
	30 2,2-Dichloropropane	77	5.084	5.084	(0.841)	232248	50.0000	47.5	
	31 cis-1,2-Dichloroethene	61	5.114	5.114	(0.846)	306140	50.0000	49.6	
	32 2-Butanone	43	5.126	5.126	(0.848)	171951	50.0000	64.2	
	35 Bromochloromethane	128	5.319	5.319	(0.880)	112754	50.0000	50.8	
	36 Chloroform +	83	5.378	5.378	(0.889)	290130	50.0000	49.3	
	37 Cyclohexane	56	5.501	5.501	(0.910)	350716	50.0000	48.0	9074
$	38 Dibromofluoromethane	111	5.519	5.519	(0.913)	202081	50.0000	51.6	8645
	39 1,1,1-Trichloroethane	97	5.501	5.501	(0.910)	225164	50.0000	48.9	
	40 Carbon Tetrachloride	117	5.619	5.619	(0.929)	190400	50.0000	48.6	
	41 1,1-Dichloropropene	75	5.643	5.643	(0.933)	256133	50.0000	47.8	
M	42 Total 1,2-Dichloroethene	61				567631	100.000	96.3	
	44 Benzene	78	5.807	5.807	(0.960)	799079	50.0000	48.7	
$	45 1,2-Dichloroethane-d4	67	5.819	5.819	(0.962)	108308	50.0000	52.2	
	46 1,2-Dichloroethane	62	5.878	5.878	(0.972)	232957	50.0000	50.5	
*	47 FLUOROBENZENE	96	6.048	6.048	(1.000)	798649	50.0000		
	49 Trichloroethene	130	6.329	6.329	(1.046)	206234	50.0000	46.9	
	50 Methyl Cyclohexane	83	6.429	6.429	(1.063)	325434	50.0000	47.1	9021
	51 1,2-Dichloropropane +	63	6.535	6.535	(1.081)	235234	50.0000	49.6	
	55 Dibromomethane	93	6.635	6.635	(1.097)	147774	50.0000	50.0	
	56 Bromodichloromethane	83	6.740	6.740	(1.114)	255511	50.0000	53.2	
	57 2-Chloroethyl vinyl ether	63	6.957	6.957	(1.150)	195843	50.0000	54.1	
	58 cis-1,3-Dichloropropene	75	7.081	7.081	(1.171)	368670	50.0000	53.9	
	59 4-methyl-2-pentanone	43	7.169	7.169	(1.185)	280940	50.0000	58.5	
$	60 Toluene-d8	98	7.245	7.245	(0.868)	777036	50.0000	53.1	
	61 Toluene +	91	7.298	7.298	(0.875)	874692	50.0000	49.6	
	63 trans-1,3-Dichloropropene	75	7.498	7.498	(0.899)	320175	50.0000	54.7	
	64 1,1,2-Trichloroethane	97	7.638	7.638	(0.916)	206008	50.0000	54.2	
	65 Tetrachloroethene	164	7.697	7.697	(0.923)	160357	50.0000	47.8	
	66 1,3-Dichloropropane	76	7.768	7.768	(0.931)	353542	50.0000	51.0	
	67 2-Hexanone	43	7.786	7.786	(0.933)	189118	50.0000	61.4	
	68 Dibromochloromethane	129	7.921	7.921	(0.949)	228482	50.0000	58.9	
	69 1,2-Dibromoethane(EDB)	107	8.032	8.032	(0.963)	234914	50.0000	54.1	
*	70 CHLOROBENZENE-d5	82	8.343	8.343	(1.000)	327861	50.0000		
	71 Chlorobenzene ++	112	8.361	8.361	(1.002)	571327	50.0000	49.3	
	72 Ethylbenzene +	106	8.402	8.402	(1.007)	308858	50.0000	49.6	
	73 1,1,1,2-Tetrachloroethane	133	8.420	8.420	(1.009)	186033	50.0000	52.0	
	74 p,m-Xylene	106	8.485	8.485	(1.017)	751502	100.000	98.7	
	75 o-Xylene	106	8.778	8.778	(1.052)	366882	50.0000	50.2	
	76 Styrene	104	8.796	8.796	(1.054)	658111	50.0000	52.2	
	77 Bromoform ++	173	8.966	8.966	(1.075)	171017	50.0000	63.2	
	78 Isopropylbenzene	105	9.019	9.019	(1.081)	861469	50.0000	47.7	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.172	9.172	(1.099)	245907	50.0000	53.4	
81 1,1,2,2-Tetrachloroethane++	83	9.266	9.266	(0.932)	305833	50.0000	62.5	
82 Bromobenzene	77	9.290	9.290	(0.934)	523020	50.0000	52.6	
84 trans-1,4-Dichloro-2-Butene	53	9.302	9.302	(0.935)	66342	50.0000	56.9	
85 n-Propylbenzene	91	9.296	9.296	(0.935)	1123405	50.0000	50.2	
86 1,2,3-Trichloropropane	75	9.308	9.308	(0.936)	341475	50.0000	57.2	
87 2-Chlorotoluene	91	9.396	9.396	(0.945)	705130	50.0000	52.0	
88 1,3,5-Trimethylbenzene	105	9.408	9.408	(0.946)	731662	50.0000	50.4	
89 4-Chlorotoluene	91	9.467	9.467	(0.952)	672713	50.0000	51.8	
91 tert-butylbenzene	91	9.632	9.632	(0.969)	462213	50.0000	52.9	
92 1,2,4-Trimethylbenzene	105	9.667	9.667	(0.972)	751202	50.0000	50.6	
96 sec-Butylbenzene	105	9.773	9.773	(0.983)	987282	50.0000	49.2	
97 p-Isopropyltoluene	119	9.856	9.856	(0.991)	772776	50.0000	48.7	
98 1,3-Dichlorobenzene	146	9.897	9.897	(0.995)	440408	50.0000	50.5	
* 99 1,4-DICHLOROBENZENE-D4	152	9.944	9.944	(1.000)	285274	50.0000		
100 1,4-Dichlorobenzene	146	9.962	9.962	(1.002)	449302	50.0000	50.4	
M 101 TOTAL XYLENE	106				1118384	150.000	149	
102 n-Butylbenzene	91	10.127	10.127	(1.018)	753297	50.0000	48.9	
103 1,2-Dichlorobenzene	146	10.209	10.209	(1.027)	399194	50.0000	49.9	
104 1,2-Dibromo-3-Chloropropane	157	10.726	10.726	(1.079)	55479	50.0000	62.6	
106 1,2,4-Trichlorobenzene	180	11.260	11.260	(1.132)	254088	50.0000	50.1	
107 Hexachlorobutadiene	225	11.319	11.319	(1.138)	124493	50.0000	51.7	
108 Naphthalene	128	11.449	11.449	(1.151)	722328	50.0000	56.9	
109 1,2,3-Trichlorobenzene	180	11.620	11.620	(1.168)	245824	50.0000	50.7	
140 1-Bromo-2-chloroethane	63	6.998	6.998	(1.157)	376477	50.0000	48.5	7436
154 1-Chlorohexane	91	8.296	8.296	(0.994)	313551	50.0000	46.8	9595
M 139 1-3 Dichloropropene-Total	100				688845	100.000	109	0

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/msv5.i/2050620.s.b/f2175.d

Date : 20-JUN-2005 07:35

Client ID: V5STD050

Sample Info: 1400*V5STD050*5-30-04

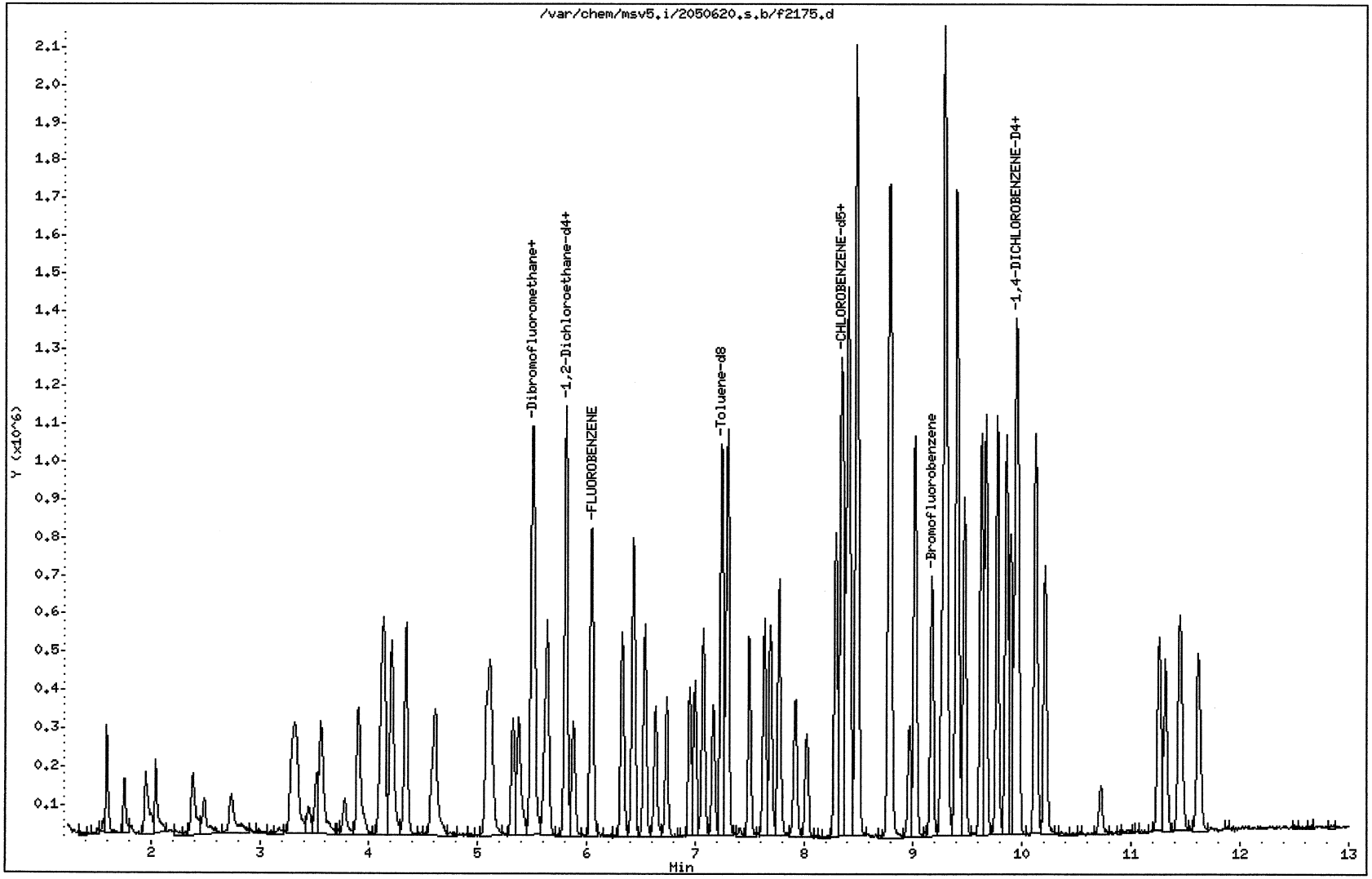
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv5.i

Operator: KCB

Column diameter: 0.53

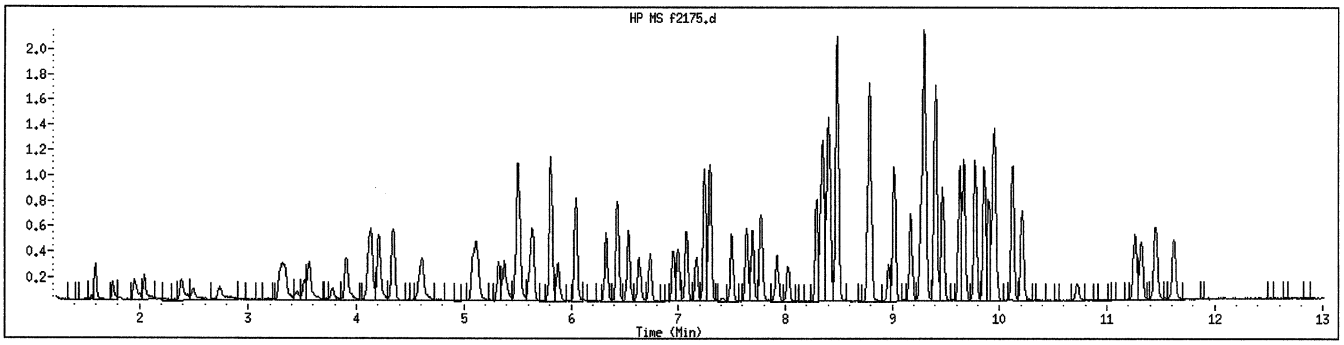


000154

Data file : /var/chem/msv5.i/2050620.s.b/f2175.d
Report Date: 06/20/2005 08:52

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 20-JUN-2005 07:35	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 1400*V5STD050*5-30-04		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB250948

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 250948

Level: (low/med) LOW Lab File ID: 2050620/F2178

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0903

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.00	U	0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.227	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.131	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.229	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.240	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.205	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.238	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.125	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	5.00	U	0.225	5.00
75-27-4	Bromodichloromethane	5.00	U	0.219	5.00
75-25-2	Bromoform	5.00	U	0.216	5.00
74-83-9	Bromomethane	5.00	U	0.477	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.128	5.00
108-90-7	Chlorobenzene	5.00	U	0.213	5.00
75-00-3	Chloroethane	5.00	U	0.596	5.00
67-66-3	Chloroform	5.00	U	0.194	5.00
74-87-3	Chloromethane	5.00	U	0.453	5.00
124-48-1	Dibromochloromethane	5.00	U	0.081	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.236	5.00
100-41-4	Ethylbenzene	5.00	U	0.227	5.00
75-09-2	Methylene chloride	10.0	U	0.445	10.0
127-18-4	Tetrachloroethene	5.00	U	0.227	5.00
108-88-3	Toluene	5.00	U	0.213	5.00
79-01-6	Trichloroethene	5.00	U	0.270	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.190	5.00
75-01-4	Vinyl chloride	5.00	U	0.089	5.00
1330-20-7	Xylene (total)	10.0	U	0.509	10.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB250948

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 250948

Level: (low/med) LOW Lab File ID: 2050620/F2178

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0903

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.179	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2178.d
Lab Smp Id: 250949 Client Smp ID: MB for HBN 293940
Inj Date : 20-JUN-2005 09:03
Operator : KCB Inst ID: msv5.i
Smp Info : 250949*MB for HBN 293940
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
13 Acetone	43	3.446	3.448	(0.570)	3016	2.50021	2.50	
32 2-Butanone	43	5.155	5.126	(0.853)	7873	3.09158	3.09	
$ 38 Dibromofluoromethane	111	5.518	5.519	(0.913)	192502	51.6996	51.7	2301
$ 45 1,2-Dichloroethane-d4	67	5.817	5.819	(0.962)	102775	52.1262	52.1	
* 47 FLUOROBENZENE	96	6.045	6.048	(1.000)	759222	50.0000		
$ 60 Toluene-d8	98	7.245	7.245	(0.869)	729292	51.9185	51.9	
* 70 CHLOROBENZENE-d5	82	8.334	8.343	(1.000)	314842	50.0000		
$ 80 Bromofluorobenzene	174	9.172	9.172	(1.101)	239187	54.0405	54.0	
* 99 1,4-DICHLOROBENZENE-D4	152	9.940	9.944	(1.000)	268562	50.0000		
108 Naphthalene	128	11.447	11.449	(1.152)	43028	3.59915	3.60	
109 1,2,3-Trichlorobenzene	180	11.617	11.620	(1.169)	5297	1.16146	1.16	

Data File: /var/chem/msv5.i/2050620.s.b/f2178.d

Date : 20-JUN-2005 09:03

Client ID: MB for HBN 293940

Sample Info: 250949*MB for HBN 293940

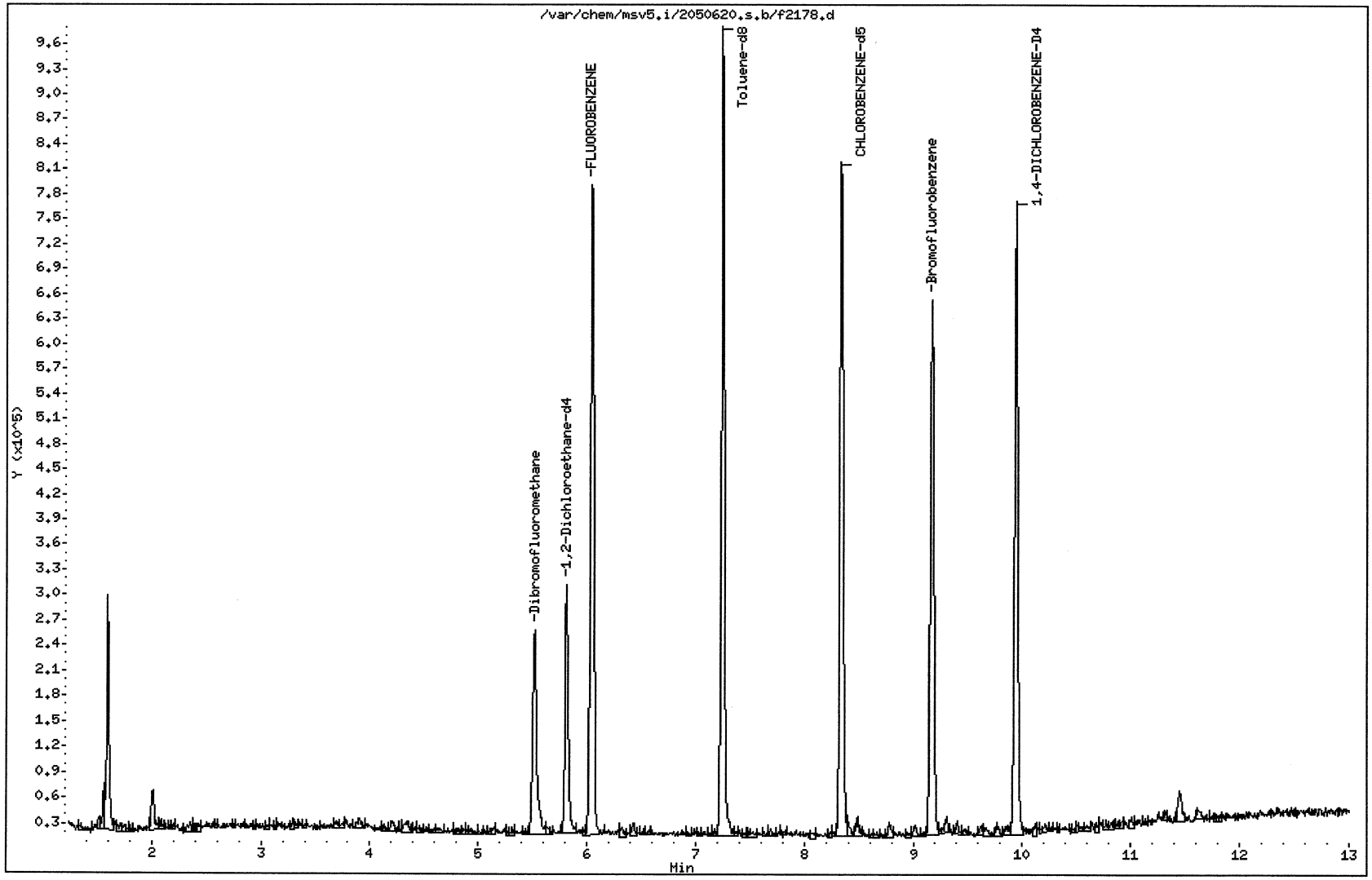
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv5.i

Operator: KCB

Column diameter: 0.53



000159

Data File: /var/chem/msv5.i/2050620.s.b/f2178.d

Date : 20-JUN-2005 09:03

Client ID: MB for HBN 293940

Instrument: msv5.i

Sample Info: 250949*MB for HBN 293940

Purge Volume: 5.0

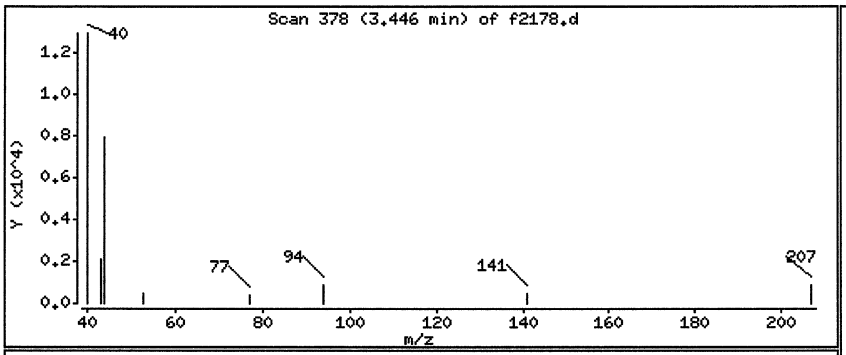
Operator: KCB

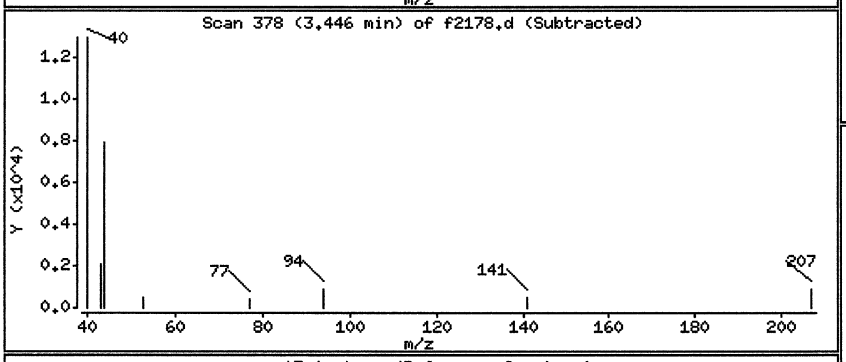
Column phase: DB-624-30M

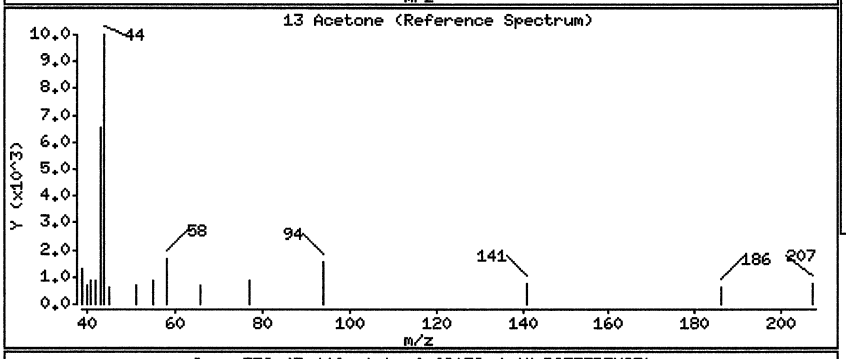
Column diameter: 0.53

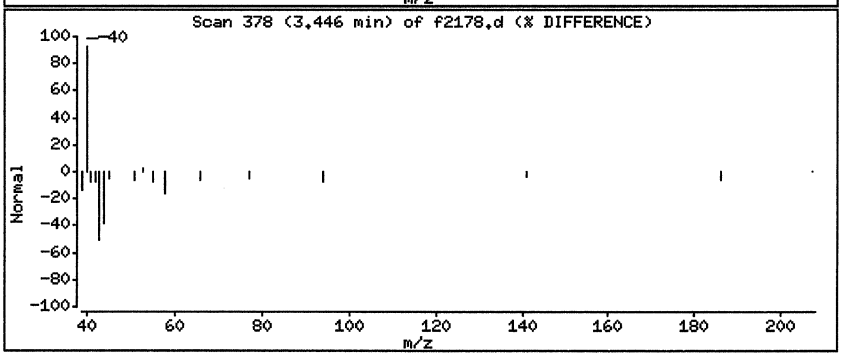
13 Acetone

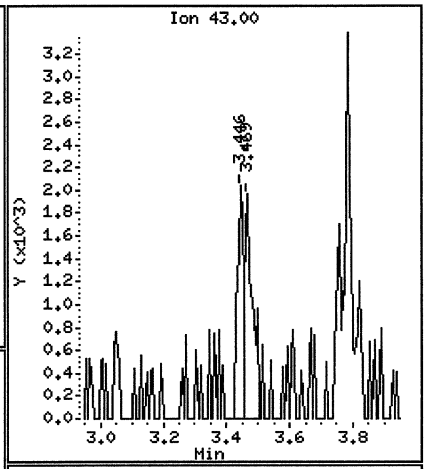
Concentration: 2.50 ug/L

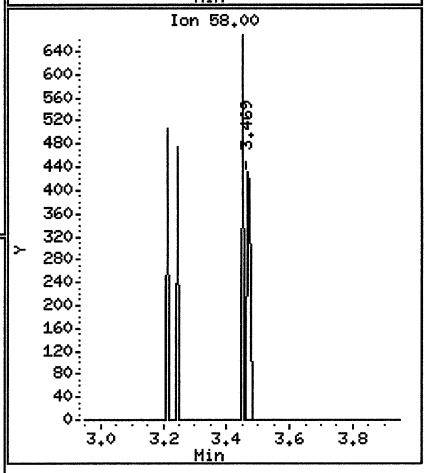












Data File: /var/chem/msv5.i/2050620.s.b/f2178.d

Date : 20-JUN-2005 09:03

Client ID: MB for HBN 293940

Instrument: msv5.i

Sample Info: 250949*MB for HBN 293940

Purge Volume: 5.0

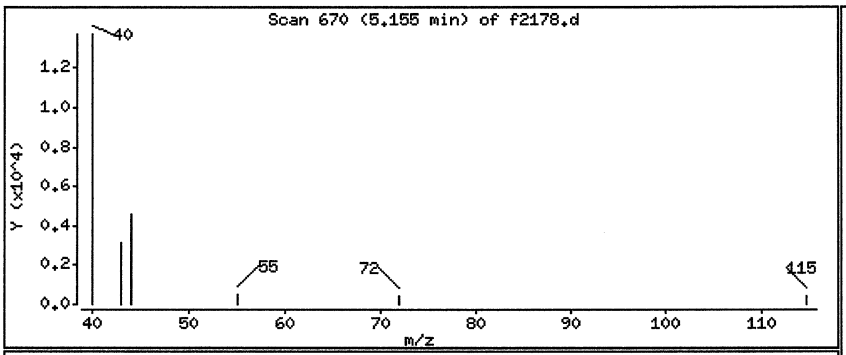
Operator: KCB

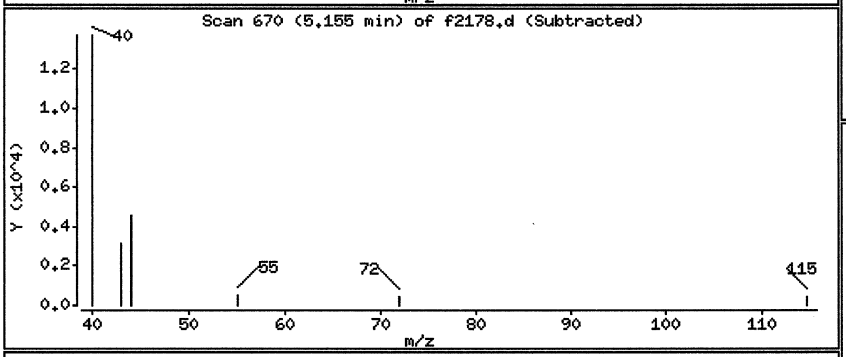
Column phase: DB-624-30M

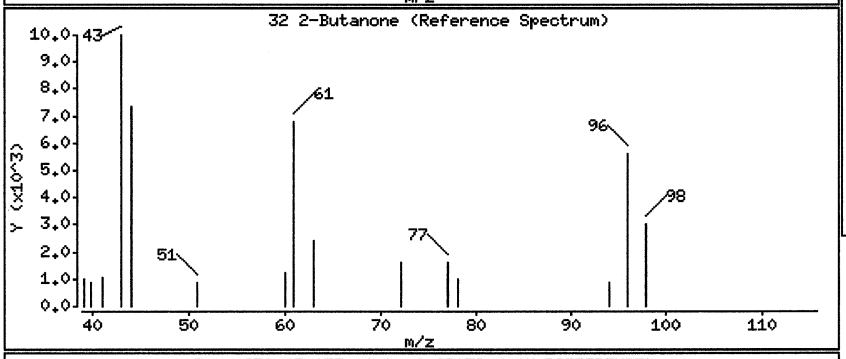
Column diameter: 0.53

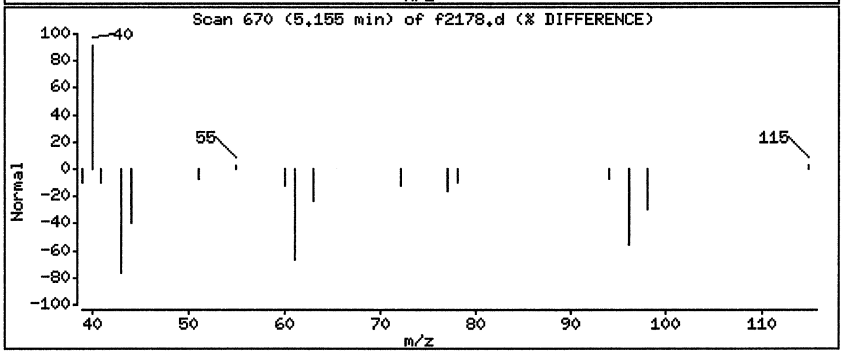
32 2-Butanone

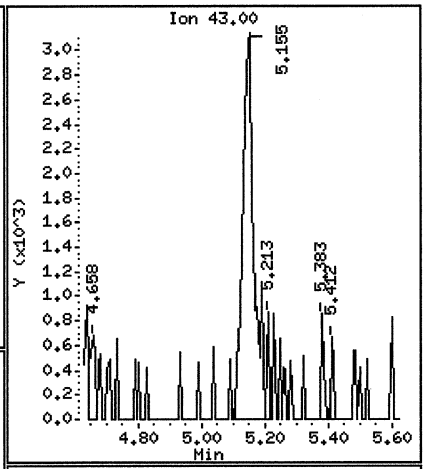
Concentration: 3.09 ug/L

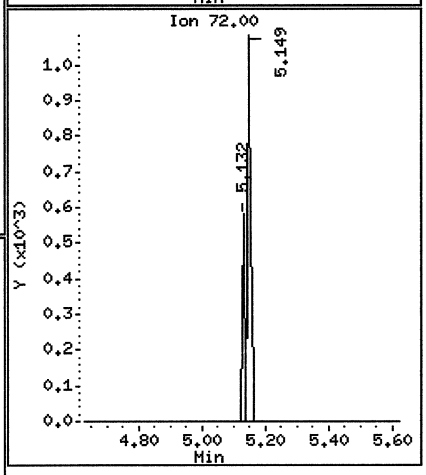












Data File: /var/chem/msv5.i/2050620.s.b/f2178.d

Date : 20-JUN-2005 09:03

Client ID: MB for HBN 293940

Instrument: msv5.i

Sample Info: 250949*MB for HBN 293940

Purge Volume: 5.0

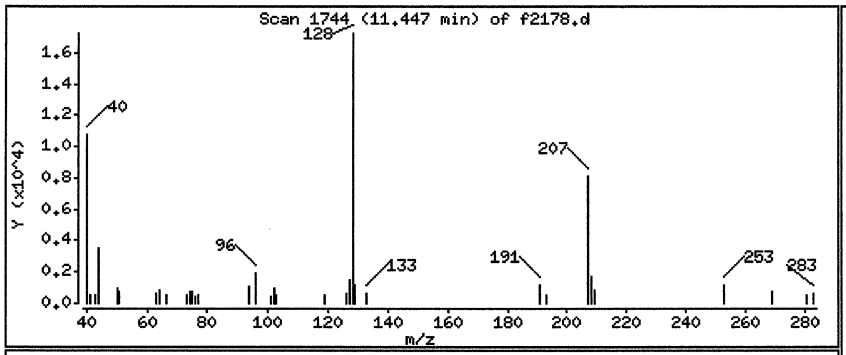
Operator: KCB

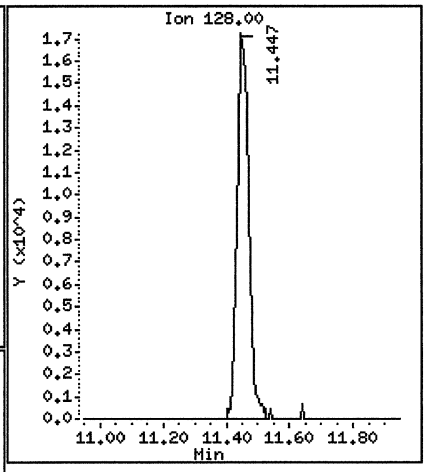
Column phase: DB-624-30M

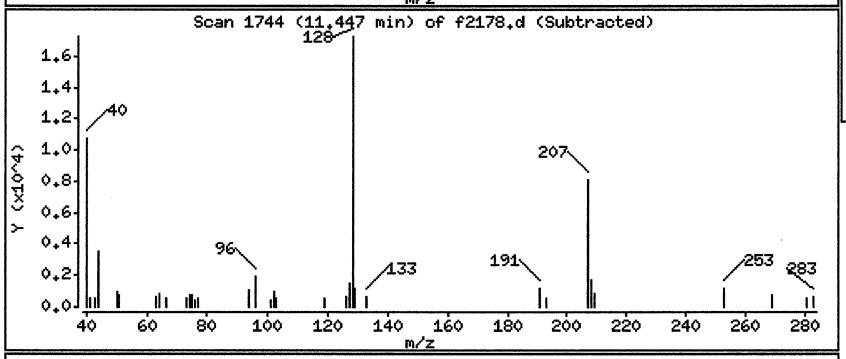
Column diameter: 0.53

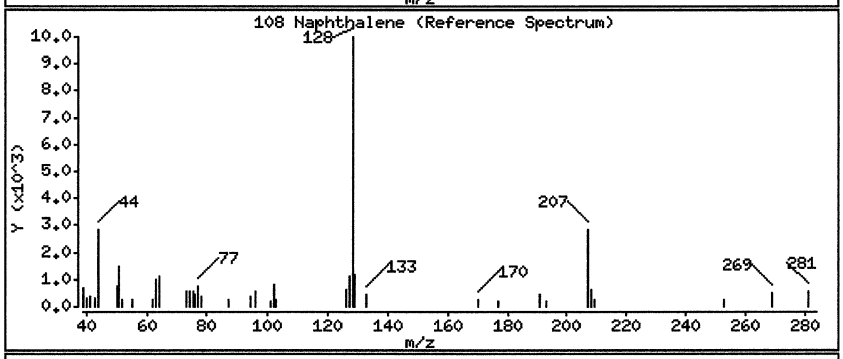
108 Naphthalene

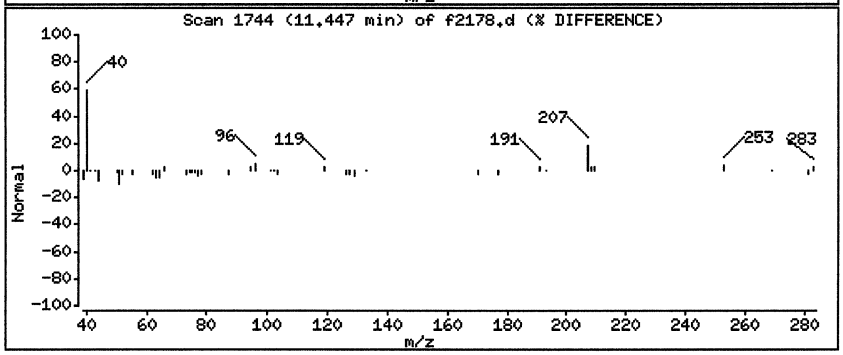
Concentration: 3.60 ug/L











Data File: /var/chem/msv5.i/2050620.s.b/f2178.d

Date : 20-JUN-2005 09:03

Client ID: MB for HBN 293940

Instrument: msv5.i

Sample Info: 250949*MB for HBN 293940

Purge Volume: 5.0

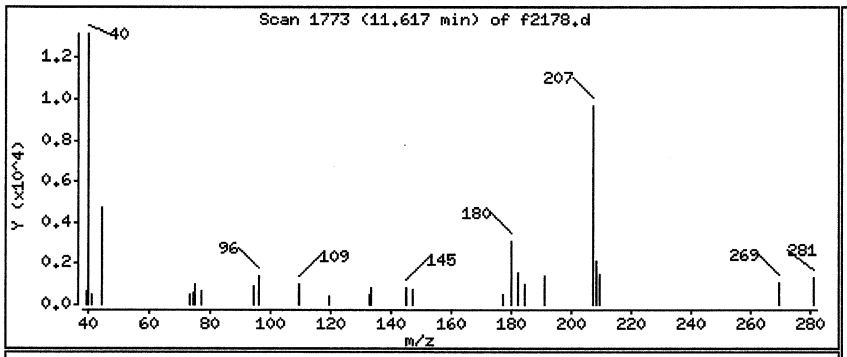
Operator: KCB

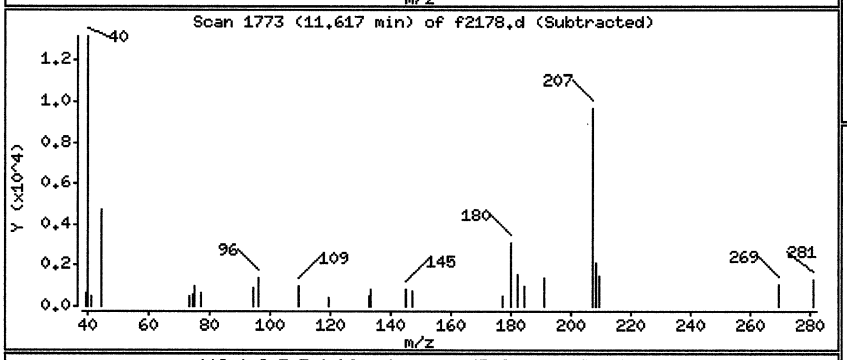
Column phase: DB-624-30M

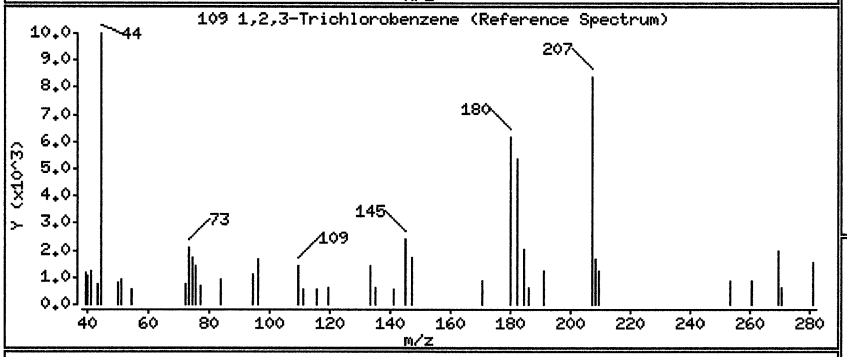
Column diameter: 0.53

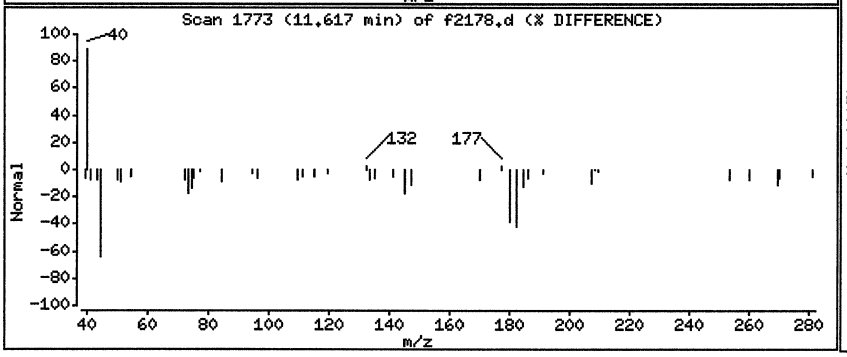
109 1,2,3-Trichlorobenzene

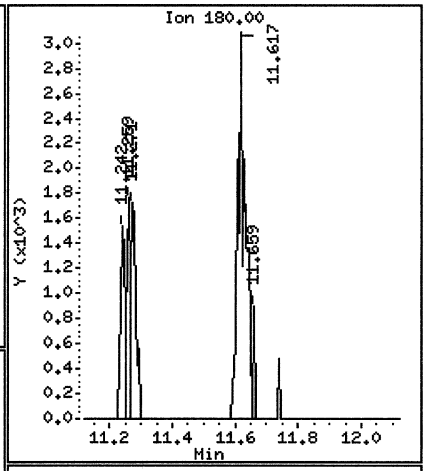
Concentration: 1.16 ug/L

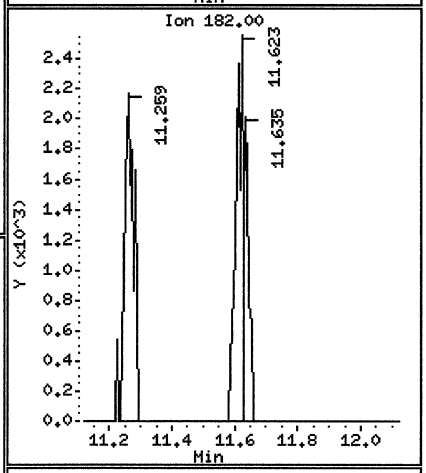


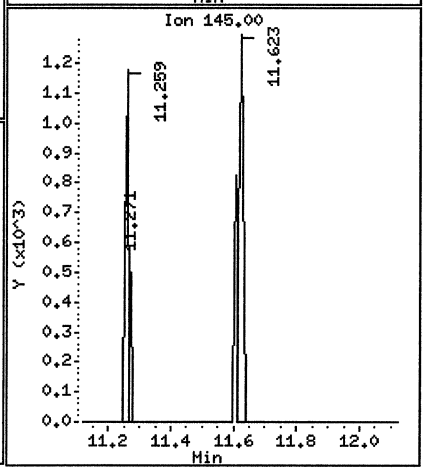








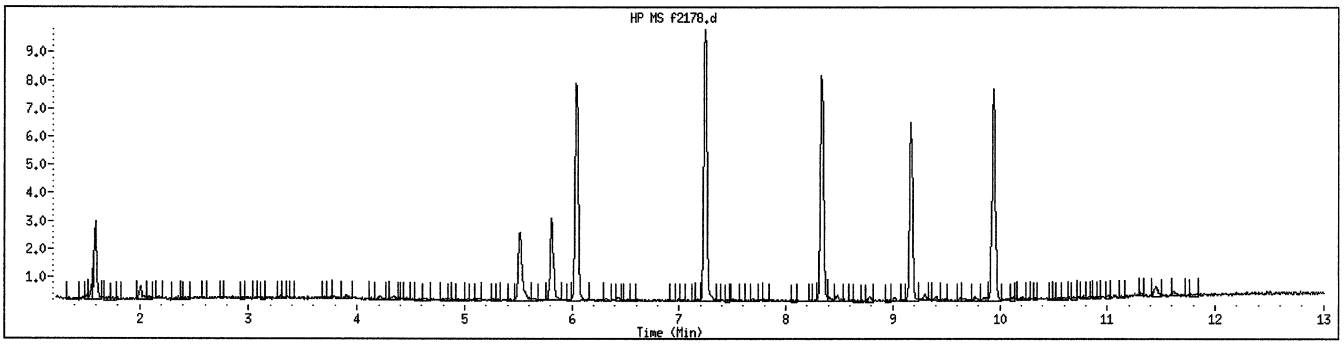




Data file : /var/chem/msv5.i/2050620.s.b/f2178.d
Report Date: 06/20/2005 09:23

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 250949	SampleType	: BLANK
Injection Date	: 20-JUN-2005 09:03	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 250949*MB for HBN 293940		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS250949

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 250949

Level: (low/med) LOW Lab File ID: 2050620/F2177

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0839

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	25.4		0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	32.0		0.227	5.00
79-00-5	1,1,2-Trichloroethane	28.1		0.131	5.00
75-35-4	1,1-Dichloroethene	23.9		0.229	5.00
95-50-1	1,2-Dichlorobenzene	25.4		0.240	5.00
107-06-2	1,2-Dichloroethane	24.5		0.205	5.00
78-87-5	1,2-Dichloropropane	25.7		0.238	5.00
541-73-1	1,3-Dichlorobenzene	25.4		0.125	5.00
106-46-7	1,4-Dichlorobenzene	26.1		0.135	5.00
110-75-8	2-Chloroethylvinyl ether	26.2		0.221	5.00
71-43-2	Benzene	25.2		0.225	5.00
75-27-4	Bromodichloromethane	26.9		0.219	5.00
75-25-2	Bromoform	30.8		0.216	5.00
74-83-9	Bromomethane	24.3		0.477	5.00
56-23-5	Carbon tetrachloride	26.6		0.128	5.00
108-90-7	Chlorobenzene	25.0		0.213	5.00
75-00-3	Chloroethane	21.3		0.596	5.00
67-66-3	Chloroform	25.2		0.194	5.00
74-87-3	Chloromethane	22.5		0.453	5.00
124-48-1	Dibromochloromethane	29.9		0.081	5.00
75-71-8	Dichlorodifluoromethane	26.4		0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	27.0		0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	28.2		0.236	5.00
100-41-4	Ethylbenzene	24.6		0.227	5.00
75-09-2	Methylene chloride	22.6		0.445	10.0
127-18-4	Tetrachloroethene	26.2		0.227	5.00
108-88-3	Toluene	25.8		0.213	5.00
79-01-6	Trichloroethene	25.0		0.270	5.00
75-69-4	Trichlorofluoromethane	22.8		0.190	5.00
75-01-4	Vinyl chloride	25.3		0.089	5.00
1330-20-7	Xylene (total)	75.9		0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS250949

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 250949

Level: (low/med) LOW Lab File ID: 2050620/F2177

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received:

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 0839

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	24.2		0.179	5.00
156-60-5	trans-1,2-Dichloroethene	23.6		0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2177.d
Lab Smp Id: 250949 Client Smp ID: LCS for HBN 293940
Inj Date : 20-JUN-2005 08:39
Operator : KCB Inst ID: msv5.i
Smp Info : 250949*LCS for HBN 293940
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.753	1.759	(0.290)	93385	26.3883	26.4	
2 Chloromethane ++	50	1.964	1.952	(0.325)	123460	22.5340	22.5	
3 Vinyl Chloride +	62	2.040	2.046	(0.337)	121567	25.2894	25.3	
5 Bromomethane	94	2.380	2.387	(0.394)	91371	24.2831	24.3	
6 Chloroethane	64	2.492	2.492	(0.412)	49460	21.3263	21.3	
7 Trichlorofluoromethane	101	2.738	2.739	(0.453)	76768	22.7827	22.8	
10 Acrolein	56	3.289	3.284	(0.544)	51393	157.259	157	
11 1,1,2Trichlotrifluoroethane	101	3.312	3.307	(0.548)	77969	24.9303	24.9	
12 1,1-Dichloroethene +	96	3.342	3.343	(0.553)	63739	23.8887	23.9	
13 Acetone	43	3.453	3.448	(0.571)	42956	34.8655	34.9	
14 Methyl Iodide	142	3.518	3.519	(0.582)	118211	23.0872	23.1	
15 Carbon Disulfide	76	3.559	3.560	(0.589)	286394	25.7861	25.8	
17 Methyl Acetate	43	3.775	3.777	(0.625)	80059	28.3151	28.3	7065
18 Methylene Chloride	49	3.904	3.906	(0.646)	124495	22.6151	22.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.116	4.117	(0.681)	224473	24.2123	24.2	8350
	21 trans-1,2-Dichloroethene	61	4.139	4.141	(0.685)	128534	23.6475	23.6	
	22 Acrylonitrile	53	4.204	4.205	(0.695)	236623	137.367	137	
	24 Hexane	57	4.339	4.340	(0.718)	162306	26.8861	26.9	8776
	27 1,1-Dichloroethane ++	63	4.579	4.580	(0.757)	155130	24.4734	24.5	
	28 Vinyl Acetate	43	4.614	4.610	(0.763)	227911	30.8168	30.8	
	30 2,2-Dichloropropane	77	5.082	5.084	(0.841)	117112	24.6598	24.7	
	31 cis-1,2-Dichloroethene	61	5.106	5.114	(0.845)	149309	24.9129	24.9	
	32 2-Butanone	43	5.129	5.126	(0.849)	105484	40.5558	40.6	(R)
	35 Bromochloromethane	128	5.323	5.319	(0.881)	54871	25.4394	25.4	
	36 Chloroform +	83	5.382	5.378	(0.890)	144095	25.2110	25.2	
	37 Cyclohexane	56	5.499	5.501	(0.910)	184432	26.0237	26.0	8905
$	38 Dibromofluoromethane	111	5.511	5.519	(0.912)	196791	51.7468	51.7	8498
	39 1,1,1-Trichloroethane	97	5.505	5.501	(0.911)	113634	25.4105	25.4	
	40 Carbon Tetrachloride	117	5.617	5.619	(0.929)	101179	26.6151	26.6	
	41 1,1-Dichloropropene	75	5.640	5.643	(0.933)	130230	25.0573	25.1	
M	42 Total 1,2-Dichloroethene	61				277843	48.5604	48.6	
	44 Benzene	78	5.804	5.807	(0.960)	401992	25.2383	25.2	
$	45 1,2-Dichloroethane-d4	67	5.810	5.819	(0.961)	107009	53.1392	53.1	
	46 1,2-Dichloroethane	62	5.875	5.878	(0.972)	109505	24.4730	24.5	
*	47 FLUOROBENZENE	96	6.045	6.048	(1.000)	775429	50.0000		
	49 Trichloroethene	130	6.326	6.329	(1.047)	106454	24.9511	25.0	
	50 Methyl Cyclohexane	83	6.432	6.429	(1.064)	173649	25.9099	25.9	8923
	51 1,2-Dichloropropane +	63	6.532	6.535	(1.081)	118189	25.6572	25.7	
	55 Dibromomethane	93	6.631	6.635	(1.097)	76021	26.4778	26.5	
	56 Bromodichloromethane	83	6.737	6.740	(1.114)	125644	26.9471	26.9	
	57 2-Chloroethyl vinyl ether	63	6.954	6.957	(1.150)	87269	26.1693	26.2	
	58 cis-1,3-Dichloropropene	75	7.077	7.081	(1.171)	179400	27.0305	27.0	
	59 4-methyl-2-pentanone	43	7.171	7.169	(1.186)	148695	31.8866	31.9	
$	60 Toluene-d8	98	7.247	7.245	(0.869)	759969	53.4665	53.5	
	61 Toluene +	91	7.294	7.298	(0.875)	442102	25.8211	25.8	
	63 trans-1,3-Dichloropropene	75	7.500	7.498	(0.899)	160344	28.1893	28.2	
	64 1,1,2-Trichloroethane	97	7.640	7.638	(0.916)	103726	28.0907	28.1	
	65 Tetrachloroethene	164	7.693	7.697	(0.923)	85223	26.1679	26.2	
	66 1,3-Dichloropropane	76	7.770	7.768	(0.932)	183345	27.2304	27.2	
	67 2-Hexanone	43	7.782	7.786	(0.933)	100491	33.5605	33.6	
	68 Dibromochloromethane	129	7.922	7.921	(0.950)	112695	29.8790	29.9	
	69 1,2-Dibromoethane(EDB)	107	8.028	8.032	(0.963)	125680	29.7802	29.8	
*	70 CHLOROBENZENE-d5	82	8.339	8.343	(1.000)	318587	50.0000		
	71 Chlorobenzene ++	112	8.356	8.361	(1.002)	281790	25.0322	25.0	
	72 Ethylbenzene +	106	8.398	8.402	(1.007)	149062	24.6412	24.6	
	73 1,1,1,2-Tetrachloroethane	133	8.415	8.420	(1.009)	93125	26.7830	26.8	
	74 p,m-Xylene	106	8.480	8.485	(1.017)	367584	49.6816	49.7	
	75 o-Xylene	106	8.779	8.778	(1.053)	186160	26.1904	26.2	
	76 Styrene	104	8.791	8.796	(1.054)	321714	26.2800	26.3	
	77 Bromoform ++	173	8.967	8.966	(1.075)	81024	30.8292	30.8	
	78 Isopropylbenzene	105	9.020	9.019	(1.082)	436589	24.8790	24.9	

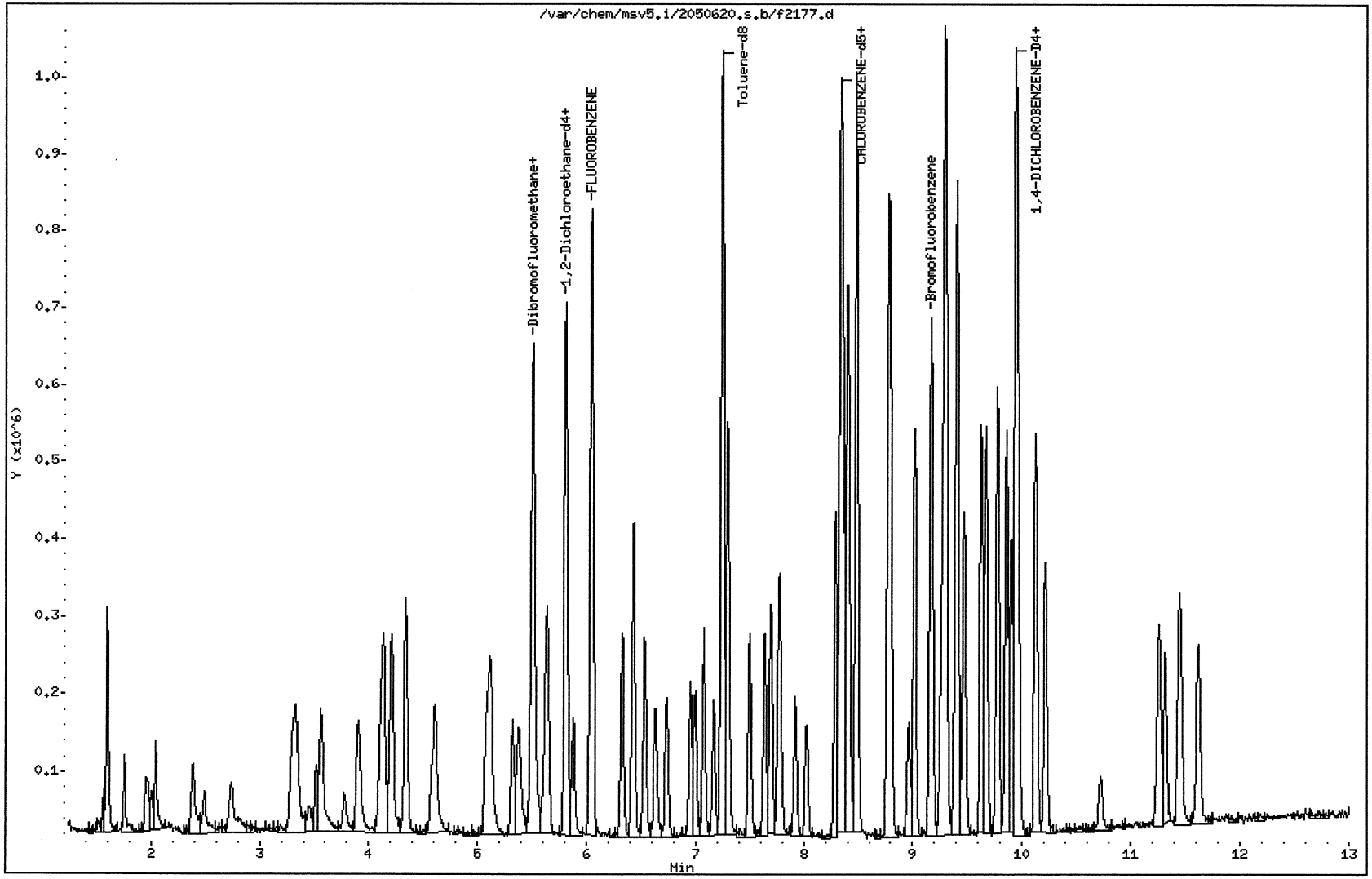
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.173	9.172	(1.100)	247015	55.1531	55.2	
81 1,1,2,2-Tetrachloroethane++	83	9.261	9.266	(0.931)	152649	31.9689	32.0	
82 Bromobenzene	77	9.285	9.290	(0.934)	266215	27.4401	27.4	
84 trans-1,4-Dichloro-2-Butene	53	9.302	9.302	(0.935)	32715	29.7896	29.8	
85 n-Propylbenzene	91	9.296	9.296	(0.935)	560958	25.7140	25.7	
86 1,2,3-Trichloropropane	75	9.308	9.308	(0.936)	179130	30.9185	30.9	
87 2-Chlorotoluene	91	9.397	9.396	(0.945)	330516	25.0064	25.0	
88 1,3,5-Trimethylbenzene	105	9.409	9.408	(0.946)	348432	24.5840	24.6	
89 4-Chlorotoluene	91	9.467	9.467	(0.952)	332252	26.2382	26.2	
91 tert-butylbenzene	91	9.626	9.632	(0.968)	229887	26.9738	27.0	
92 1,2,4-Trimethylbenzene	105	9.667	9.667	(0.972)	359817	24.8308	24.8	
96 sec-Butylbenzene	105	9.773	9.773	(0.983)	505318	25.8361	25.8	
97 p-Isopropyltoluene	119	9.856	9.856	(0.991)	399783	25.8150	25.8	
98 1,3-Dichlorobenzene	146	9.903	9.897	(0.996)	215848	25.3547	25.4	
* 99 1,4-DICHLOROBENZENE-D4	152	9.944	9.944	(1.000)	278266	50.0000		
100 1,4-Dichlorobenzene	146	9.962	9.962	(1.002)	227360	26.1377	26.1	
M 101 TOTAL XYLENE	106				553744	75.8720	75.9	
102 n-Butylbenzene	91	10.121	10.127	(1.018)	372399	24.7655	24.8	
103 1,2-Dichlorobenzene	146	10.215	10.209	(1.027)	198225	25.3814	25.4	
104 1,2-Dibromo-3-Chloropropane	157	10.725	10.726	(1.079)	27636	31.9905	32.0	
106 1,2,4-Trichlorobenzene	180	11.259	11.260	(1.132)	132686	26.8255	26.8	
107 Hexachlorobutadiene	225	11.318	11.319	(1.138)	63667	27.0797	27.1	
108 Naphthalene	128	11.454	11.449	(1.152)	371866	30.0206	30.0	
109 1,2,3-Trichlorobenzene	180	11.624	11.620	(1.169)	121961	25.8094	25.8	
140 1-Bromo-2-chloroethane	63	7.001	6.998	(1.158)	198415	26.3474	26.3	7533
154 1-Chlorohexane	91	8.292	8.296	(0.994)	168415	25.8774	25.9	9525
M 139 1-3 Dichloropropene-Total	100				339744	55.2198	55.2	0

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/msv5.i/2050620.s.b/f2177.d
Date : 20-JUN-2005 08:39
Client ID: LCS for HBN 293940
Sample Info: 250949*LCS for HBN 293940
Purge Volume: 5.0
Column phase: DB-624-30M

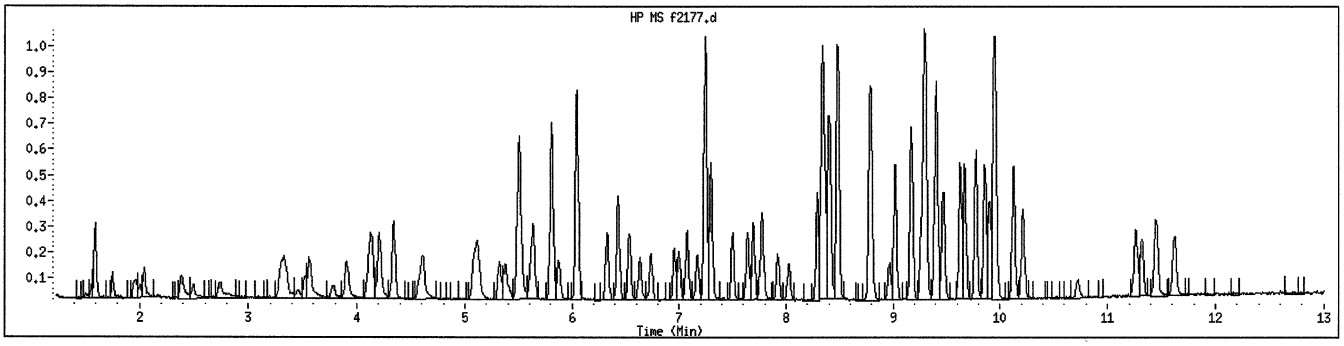
Instrument: msv5.i
Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2177.d
Report Date: 06/20/2005 09:00

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 250949	SampleType	: LCSD
Injection Date	: 20-JUN-2005 08:39	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 250949*LCS for HBN 293940		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MS-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170507

Level: (low/med) LOW Lab File ID: 2050620/F2182MS

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1056

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	25.9		0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	31.4		0.227	5.00
79-00-5	1,1,2-Trichloroethane	29.3		0.131	5.00
75-35-4	1,1-Dichloroethene	25.5		0.229	5.00
95-50-1	1,2-Dichlorobenzene	26.9		0.240	5.00
107-06-2	1,2-Dichloroethane	26.6		0.205	5.00
78-87-5	1,2-Dichloropropane	26.0		0.238	5.00
541-73-1	1,3-Dichlorobenzene	26.4		0.125	5.00
106-46-7	1,4-Dichlorobenzene	27.4		0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	26.3		0.225	5.00
75-27-4	Bromodichloromethane	29.5		0.219	5.00
75-25-2	Bromoform	33.8		0.216	5.00
74-83-9	Bromomethane	24.1		0.477	5.00
56-23-5	Carbon tetrachloride	27.1		0.128	5.00
108-90-7	Chlorobenzene	27.2		0.213	5.00
75-00-3	Chloroethane	28.9		0.596	5.00
67-66-3	Chloroform	26.9		0.194	5.00
74-87-3	Chloromethane	24.5		0.453	5.00
124-48-1	Dibromochloromethane	32.6		0.081	5.00
75-71-8	Dichlorodifluoromethane	27.5		0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	27.6		0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	30.0		0.236	5.00
100-41-4	Ethylbenzene	27.0		0.227	5.00
75-09-2	Methylene chloride	24.0		0.445	10.0
127-18-4	Tetrachloroethene	27.1		0.227	5.00
108-88-3	Toluene	26.4		0.213	5.00
79-01-6	Trichloroethene	25.4		0.270	5.00
75-69-4	Trichlorofluoromethane	25.3		0.190	5.00
75-01-4	Vinyl chloride	25.8		0.089	5.00
1330-20-7	Xylene (total)	81.3		0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MS-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170507

Level: (low/med) LOW Lab File ID: 2050620/F2182MS

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1056

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	27.1		0.179	5.00
156-60-5	trans-1,2-Dichloroethene	26.0		0.139	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2182ms.d
Lab Smp Id: 20506180507 Client Smp ID: 86-MS-Q2-05
Inj Date : 20-JUN-2005 10:56
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180507*86-MS-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.753	1.759	(0.290)	93074	27.4626	27.5	
2 Chloromethane ++	50	1.952	1.952	(0.323)	128793	24.5461	24.5	
3 Vinyl Chloride +	62	2.046	2.046	(0.338)	118737	25.7922	25.8	
5 Bromomethane	94	2.386	2.387	(0.395)	86810	24.0904	24.1	
6 Chloroethane	64	2.491	2.492	(0.412)	64197	28.9037	28.9	
7 Trichlorofluoromethane	101	2.737	2.739	(0.453)	82068	25.2577	25.3	
10 Acrolein	56	3.282	3.284	(0.543)	47880	152.983	153	
11 1,1,2Trichlotrifluoroethane	101	3.312	3.307	(0.548)	76245	25.4563	25.5	
12 1,1-Dichloroethene +	96	3.335	3.343	(0.552)	65167	25.5031	25.5	
13 Acetone	43	3.441	3.448	(0.569)	27220	23.0695	23.1	
14 Methyl Iodide	142	3.517	3.519	(0.582)	120715	24.6181	24.6	
15 Carbon Disulfide	76	3.564	3.560	(0.590)	280469	26.3684	26.4	
17 Methyl Acetate	43	3.781	3.777	(0.626)	77142	28.4890	28.5	6998
18 Methylene Chloride	49	3.904	3.906	(0.646)	125966	23.9541	24.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.115	4.117	(0.681)	240285	27.0630	27.1	8503
	21 trans-1,2-Dichloroethene	61	4.138	4.141	(0.685)	135555	26.0412	26.0	
	22 Acrylonitrile	53	4.197	4.205	(0.694)	225509	136.699	137	
	24 Hexane	57	4.338	4.340	(0.718)	149346	25.8324	25.8	8900
	27 1,1-Dichloroethane ++	63	4.584	4.580	(0.758)	162499	26.7687	26.8	
	28 Vinyl Acetate	43	4.613	4.610	(0.763)	203280	28.7009	28.7	
	30 2,2-Dichloropropane	77	5.082	5.084	(0.841)	122171	26.8618	26.9	
	31 cis-1,2-Dichloroethene	61	5.111	5.114	(0.846)	151826	26.4522	26.5	
	32 2-Butanone	43	5.129	5.126	(0.849)	60351	24.2287	24.2	
	35 Bromochloromethane	128	5.322	5.319	(0.881)	56448	27.3270	27.3	
	36 Chloroform +	83	5.369	5.378	(0.888)	147443	26.9366	26.9	
	37 Cyclohexane	56	5.498	5.501	(0.910)	174313	25.6827	25.7	8922
$	38 Dibromofluoromethane	111	5.510	5.519	(0.912)	195885	53.7846	53.8	8252
	39 1,1,1-Trichloroethane	97	5.498	5.501	(0.910)	111059	25.9321	25.9	
	40 Carbon Tetrachloride	117	5.610	5.619	(0.928)	98620	27.0883	27.1	
	41 1,1-Dichloropropene	75	5.639	5.643	(0.933)	130216	26.1617	26.2	
M	42 Total 1,2-Dichloroethene	61				287381	52.4935	52.5	
	44 Benzene	78	5.803	5.807	(0.960)	400546	26.2587	26.3	
$	45 1,2-Dichloroethane-d4	67	5.809	5.819	(0.961)	105763	54.8412	54.8	
	46 1,2-Dichloroethane	62	5.874	5.878	(0.972)	113776	26.5511	26.6	
*	47 FLUOROBENZENE	96	6.044	6.048	(1.000)	742615	50.0000		
	49 Trichloroethene	130	6.325	6.329	(1.047)	103969	25.4454	25.4	
	50 Methyl Cyclohexane	83	6.425	6.429	(1.063)	168661	26.2777	26.3	8884
	51 1,2-Dichloropropane +	63	6.537	6.535	(1.081)	114681	25.9958	26.0	
	55 Dibromomethane	93	6.630	6.635	(1.097)	76677	27.8863	27.9	
	56 Bromodichloromethane	83	6.736	6.740	(1.114)	131599	29.4715	29.5	
	58 cis-1,3-Dichloropropene	75	7.076	7.081	(1.171)	175616	27.6296	27.6	
	59 4-methyl-2-pentanone	43	7.164	7.169	(1.185)	140295	31.4147	31.4	
$	60 Toluene-d8	98	7.246	7.245	(0.870)	720041	53.5766	53.6	
	61 Toluene +	91	7.293	7.298	(0.875)	426984	26.3752	26.4	
	63 trans-1,3-Dichloropropene	75	7.498	7.498	(0.900)	161221	29.9768	30.0	
	64 1,1,2-Trichloroethane	97	7.639	7.638	(0.917)	102380	29.3240	29.3	
	65 Tetrachloroethene	164	7.698	7.697	(0.924)	83469	27.1063	27.1	
	66 1,3-Dichloropropane	76	7.768	7.768	(0.932)	185764	29.1796	29.2	
	67 2-Hexanone	43	7.780	7.786	(0.934)	90915	32.1122	32.1	
	68 Dibromochloromethane	129	7.915	7.921	(0.950)	116374	32.6325	32.6	(R)
	69 1,2-Dibromoethane(EDB)	107	8.021	8.032	(0.963)	116134	29.1040	29.1	
*	70 CHLOROBENZENE-d5	82	8.332	8.343	(1.000)	301228	50.0000		
	71 Chlorobenzene ++	112	8.355	8.361	(1.003)	289240	27.1747	27.2	
	72 Ethylbenzene +	106	8.397	8.402	(1.008)	154417	26.9975	27.0	
	73 1,1,1,2-Tetrachloroethane	133	8.414	8.420	(1.010)	98058	29.8269	29.8	
	74 p,m-Xylene	106	8.485	8.485	(1.018)	373851	53.4405	53.4	
	75 o-Xylene	106	8.778	8.778	(1.054)	186902	27.8101	27.8	
	76 Styrene	104	8.790	8.796	(1.055)	320155	27.6597	27.7	
	77 Bromoform ++	173	8.966	8.966	(1.076)	84094	33.8412	33.8	(R)
	78 Isopropylbenzene	105	9.013	9.019	(1.082)	434971	26.2152	26.2	
$	80 Bromofluorobenzene	174	9.172	9.172	(1.101)	236110	55.7563	55.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
81 1,1,2,2-Tetrachloroethane++	83	9.260	9.266	(0.931)	148793	31.4452	31.4	
82 Bromobenzene	77	9.284	9.290	(0.934)	271672	28.2576	28.3	
84 trans-1,4-Dichloro-2-Butene	53	9.295	9.302	(0.935)	34718	31.7521	31.8	
85 n-Propylbenzene	91	9.295	9.296	(0.935)	575675	26.6290	26.6	
86 1,2,3-Trichloropropane	75	9.307	9.308	(0.936)	171103	29.8137	29.8	
87 2-Chlorotoluene	91	9.396	9.396	(0.945)	362385	27.6673	27.7	
88 1,3,5-Trimethylbenzene	105	9.408	9.408	(0.946)	370377	26.3704	26.4	
89 4-Chlorotoluene	91	9.467	9.467	(0.952)	326961	26.0556	26.1	
91 tert-butylbenzene	91	9.631	9.632	(0.969)	240075	28.4259	28.4	
92 1,2,4-Trimethylbenzene	105	9.666	9.667	(0.972)	368064	25.6313	25.6	
96 sec-Butylbenzene	105	9.772	9.773	(0.983)	501262	25.8622	25.9	
97 p-Isopropyltoluene	119	9.855	9.856	(0.991)	405062	26.3942	26.4	
98 1,3-Dichlorobenzene	146	9.896	9.897	(0.995)	222389	26.3610	26.4	
* 99 1,4-DICHLOROBENZENE-D4	152	9.943	9.944	(1.000)	275754	50.0000		
100 1,4-Dichlorobenzene	146	9.961	9.962	(1.002)	236035	27.3822	27.4	
M 101 TOTAL XYLENE	106				560753	81.2506	81.3	
102 n-Butylbenzene	91	10.126	10.127	(1.018)	385719	25.8850	25.9	
103 1,2-Dichlorobenzene	146	10.214	10.209	(1.027)	208049	26.8820	26.9	
104 1,2-Dibromo-3-Chloropropane	157	10.718	10.726	(1.078)	25907	30.2623	30.3	
106 1,2,4-Trichlorobenzene	180	11.264	11.260	(1.133)	128709	26.2585	26.3	
107 Hexachlorobutadiene	225	11.324	11.319	(1.139)	63995	27.4671	27.5	
108 Naphthalene	128	11.453	11.449	(1.152)	330508	26.9249	26.9	
109 1,2,3-Trichlorobenzene	180	11.624	11.620	(1.169)	123568	26.3877	26.4	
140 1-Bromo-2-chloroethane	63	6.994	6.998	(1.157)	182620	25.3216	25.3	7341
154 1-Chlorohexane	91	8.290	8.296	(0.995)	161029	26.1683	26.2	9366
M 139 1-3 Dichloropropene-Total	100				336837	57.6064	57.6	0

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/msv5.i/2050620.s.b/f2182ms.d

Page 1

Date : 20-JUN-2005 10:56

Client ID: 86-MS-Q2-05

Instrument: msv5.i

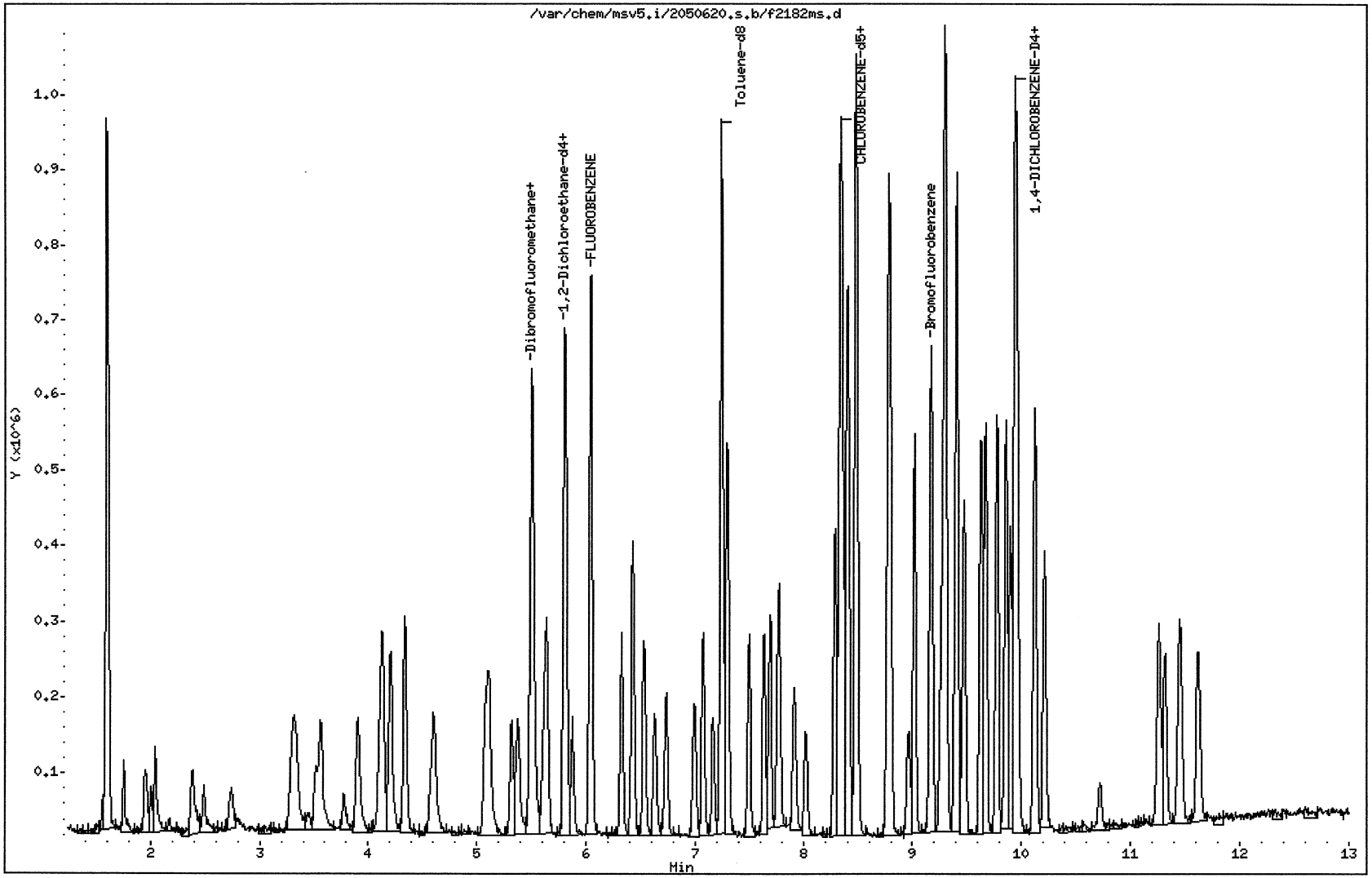
Sample Info: 20506180507*86-MS-Q2-05

Purge Volume: 5.0

Operator: KCB

Column phase: DB-624-30M

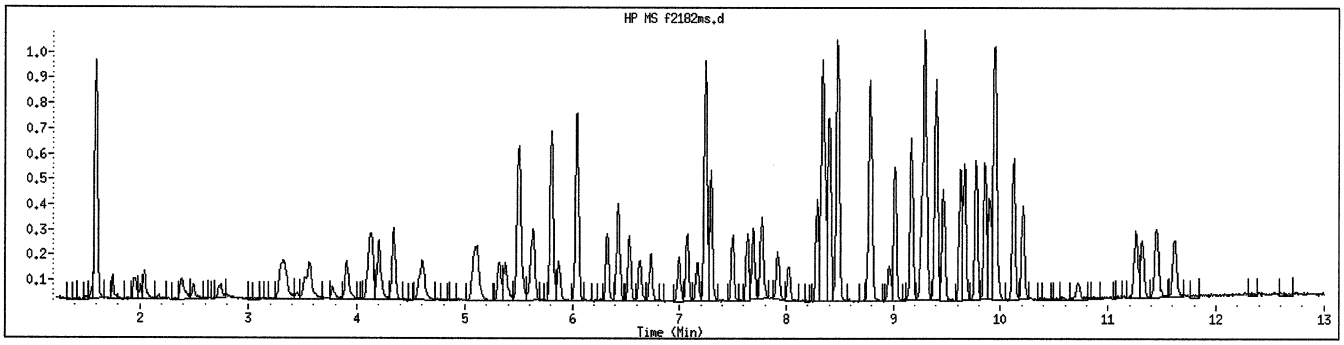
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2182ms.d
Report Date: 06/20/2005 12:28

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20506180507	SampleType	: MS
Injection Date	: 20-JUN-2005 10:56	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180507*86-MS-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MSD-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170508

Level: (low/med) LOW Lab File ID: 2050620/F2183MSD

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1121

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	26.1		0.173	5.00
79-34-5	1,1,2,2-Tetrachloroethane	28.3		0.227	5.00
79-00-5	1,1,2-Trichloroethane	27.4		0.131	5.00
75-35-4	1,1-Dichloroethene	21.5		0.229	5.00
95-50-1	1,2-Dichlorobenzene	26.4		0.240	5.00
107-06-2	1,2-Dichloroethane	26.0		0.205	5.00
78-87-5	1,2-Dichloropropane	27.3		0.238	5.00
541-73-1	1,3-Dichlorobenzene	25.9		0.125	5.00
106-46-7	1,4-Dichlorobenzene	26.1		0.135	5.00
110-75-8	2-Chloroethylvinyl ether	5.00	U	0.221	5.00
71-43-2	Benzene	25.6		0.225	5.00
75-27-4	Bromodichloromethane	28.3		0.219	5.00
75-25-2	Bromoform	28.3		0.216	5.00
74-83-9	Bromomethane	27.4		0.477	5.00
56-23-5	Carbon tetrachloride	26.6		0.128	5.00
108-90-7	Chlorobenzene	26.2		0.213	5.00
75-00-3	Chloroethane	27.6		0.596	5.00
67-66-3	Chloroform	27.0		0.194	5.00
74-87-3	Chloromethane	25.2		0.453	5.00
124-48-1	Dibromochloromethane	30.5		0.081	5.00
75-71-8	Dichlorodifluoromethane	26.7		0.156	5.00
10061-01-5	cis-1,3-Dichloropropene	27.9		0.211	5.00
10061-02-6	trans-1,3-Dichloropropene	27.3		0.236	5.00
100-41-4	Ethylbenzene	25.1		0.227	5.00
75-09-2	Methylene chloride	22.4		0.445	10.0
127-18-4	Tetrachloroethene	26.4		0.227	5.00
108-88-3	Toluene	25.3		0.213	5.00
79-01-6	Trichloroethene	24.0		0.270	5.00
75-69-4	Trichlorofluoromethane	27.3		0.190	5.00
75-01-4	Vinyl chloride	25.0		0.089	5.00
1330-20-7	Xylene (total)	76.4		0.509	10.0

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MSD-Q2-05

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20506170508

Level: (low/med) LOW Lab File ID: 2050620/F2183MSD

% Moisture: not dec. Date Collected: 06/16/05 Time: 1620

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/17/05

Instrument ID: MSV5 Date Analyzed: 06/20/05 Time: 1121

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 293940

CONCENTRATION UNITS: ug/L Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
1634-04-4	tert-Butyl methyl ether (MTBE)	23.4		0.179	5.00
156-60-5	trans-1,2-Dichloroethene	23.9		0.139	5.00

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv5.i/2050620.s.b/f2183msd.d
Lab Smp Id: 20506180508 Client Smp ID: 86-MSD-Q2-05
Inj Date : 20-JUN-2005 11:21
Operator : KCB Inst ID: msv5.i
Smp Info : 20506180508*86-MSD-Q2-05
Misc Info : MSV~6435~*1*KCB
Comment :
Method : /var/chem/msv5.i/2050620.s.b/8260Bw5.m
Meth Date : 20-Jun-2005 08:53 kcb Quant Type: ISTD
Cal Date : 17-JUN-2005 13:09 Cal File: f2064.d
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
1 Dichlorodifluoromethane	85	1.753	1.759	(0.290)	92703	26.7046	26.7	
2 Chloromethane ++	50	1.952	1.952	(0.323)	135664	25.2426	25.2	
3 Vinyl Chloride +	62	2.040	2.046	(0.338)	118003	25.0250	25.0	
5 Bromomethane	94	2.380	2.387	(0.394)	101117	27.3953	27.4	
6 Chloroethane	64	2.491	2.492	(0.413)	62739	27.5776	27.6	
7 Trichlorofluoromethane	101	2.732	2.739	(0.452)	91195	27.2742	27.3	
10 Acrolein	56	3.282	3.284	(0.544)	46207	144.137	144	
11 1,1,2Trichlotrifluoroethane	101	3.306	3.307	(0.547)	77518	25.2677	25.3	
12 1,1-Dichloroethene +	96	3.335	3.343	(0.552)	56152	21.4541	21.5	
13 Acetone	43	3.453	3.448	(0.572)	25994	21.5081	21.5	
14 Methyl Iodide	142	3.517	3.519	(0.582)	132967	26.4737	26.5	
15 Carbon Disulfide	76	3.558	3.560	(0.589)	282880	25.9645	26.0	
17 Methyl Acetate	43	3.781	3.777	(0.626)	65570	23.6413	23.6	6401
18 Methylene Chloride	49	3.904	3.906	(0.647)	120986	22.3947	22.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.109	4.117	(0.681)	212490	23.3651	23.4	8116
	21 trans-1,2-Dichloroethene	61	4.138	4.141	(0.685)	127388	23.8921	23.9	
	22 Acrylonitrile	53	4.197	4.205	(0.695)	202396	119.780	120	
	24 Hexane	57	4.338	4.340	(0.718)	150503	25.4154	25.4	7375(M)
	27 1,1-Dichloroethane ++	63	4.572	4.580	(0.757)	163777	26.3396	26.3	
	28 Vinyl Acetate	43	4.607	4.610	(0.763)	187056	25.7840	25.8	
	30 2,2-Dichloropropane	77	5.082	5.084	(0.842)	120531	25.8729	25.9	
	31 cis-1,2-Dichloroethene	61	5.105	5.114	(0.845)	148293	25.2241	25.2	
	32 2-Butanone	43	5.123	5.126	(0.848)	48209	18.8952	18.9	
	35 Bromochloromethane	128	5.316	5.319	(0.880)	57567	27.2079	27.2	
	36 Chloroform +	83	5.375	5.378	(0.890)	151265	26.9796	27.0	
	37 Cyclohexane	56	5.498	5.501	(0.911)	174907	25.1592	25.2	8656
$	38 Dibromofluoromethane	111	5.510	5.519	(0.913)	201919	54.1269	54.1	7754
	39 1,1,1-Trichloroethane	97	5.498	5.501	(0.911)	114437	26.0873	26.1	
	40 Carbon Tetrachloride	117	5.610	5.619	(0.929)	99096	26.5736	26.6	
	41 1,1-Dichloropropene	75	5.639	5.643	(0.934)	129683	25.4369	25.4	
M	42 Total 1,2-Dichloroethene	61				275681	49.1161	49.1	
	44 Benzene	78	5.803	5.807	(0.961)	400044	25.6039	25.6	
$	45 1,2-Dichloroethane-d4	67	5.809	5.819	(0.962)	108902	55.1300	55.1	
	46 1,2-Dichloroethane	62	5.874	5.878	(0.973)	114304	26.0418	26.0	
*	47 FLUOROBENZENE	96	6.038	6.048	(1.000)	760650	50.0000		
	49 Trichloroethene	130	6.325	6.329	(1.048)	100631	24.0445	24.0	
	50 Methyl Cyclohexane	83	6.431	6.429	(1.065)	168706	25.6615	25.7	8904
	51 1,2-Dichloropropane +	63	6.531	6.535	(1.082)	123180	27.2603	27.3	
	55 Dibromomethane	93	6.630	6.635	(1.098)	74188	26.3414	26.3	
	56 Bromodichloromethane	83	6.730	6.740	(1.115)	129621	28.3402	28.3	
	58 cis-1,3-Dichloropropene	75	7.076	7.081	(1.172)	181670	27.9044	27.9	
	59 4-methyl-2-pentanone	43	7.164	7.169	(1.186)	116680	25.5074	25.5	
$	60 Toluene-d8	98	7.246	7.245	(0.869)	736631	52.9178	52.9	
	61 Toluene +	91	7.293	7.298	(0.875)	424599	25.3219	25.3	
	63 trans-1,3-Dichloropropene	75	7.498	7.498	(0.899)	152078	27.3001	27.3	
	64 1,1,2-Trichloroethane	97	7.639	7.638	(0.916)	99119	27.4093	27.4	
	65 Tetrachloroethene	164	7.686	7.697	(0.922)	84210	26.4024	26.4	
	66 1,3-Dichloropropane	76	7.768	7.768	(0.932)	177951	26.9868	27.0	
	67 2-Hexanone	43	7.786	7.786	(0.934)	74390	25.3678	25.4	
	68 Dibromochloromethane	129	7.921	7.921	(0.950)	112669	30.5023	30.5	
	69 1,2-Dibromoethane(EDB)	107	8.026	8.032	(0.963)	114884	27.7963	27.8	
*	70 CHLOROBENZENE-d5	82	8.337	8.343	(1.000)	312005	50.0000		
	71 Chlorobenzene ++	112	8.355	8.361	(1.002)	288470	26.1662	26.2	
	72 Ethylbenzene +	106	8.396	8.402	(1.007)	148460	25.0594	25.1	
	73 1,1,1,2-Tetrachloroethane	133	8.408	8.420	(1.008)	98192	28.8360	28.8	
	74 p,m-Xylene	106	8.479	8.485	(1.017)	365252	50.4079	50.4	
	75 o-Xylene	106	8.778	8.778	(1.053)	180675	25.9550	26.0	
	76 Styrene	104	8.790	8.796	(1.054)	322606	26.9088	26.9	
	77 Bromoform ++	173	8.966	8.966	(1.075)	72923	28.3322	28.3	
	78 Isopropylbenzene	105	9.019	9.019	(1.082)	434247	25.2676	25.3	
$	80 Bromofluorobenzene	174	9.171	9.172	(1.100)	238878	54.4615	54.5	

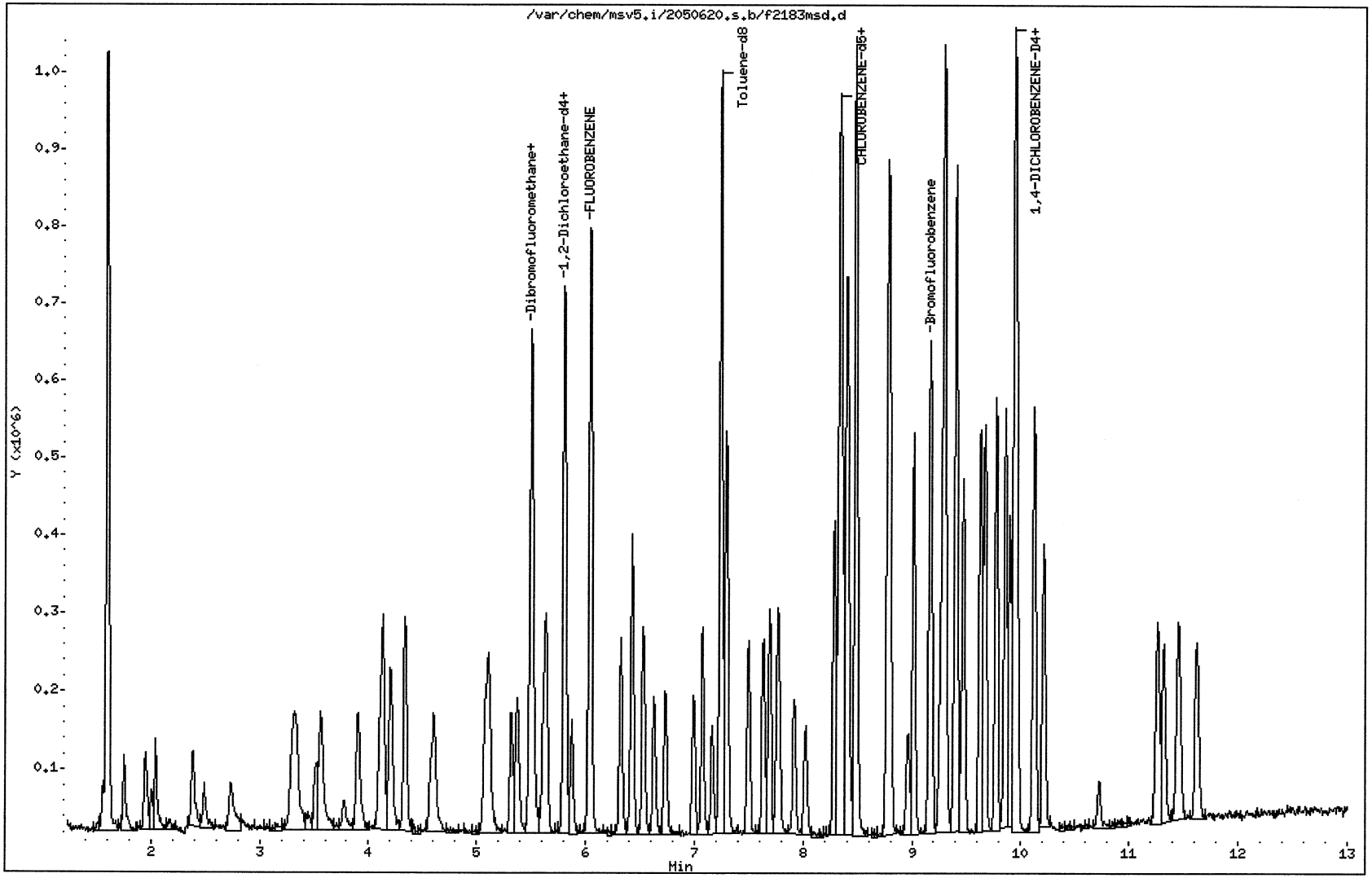
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
81 1,1,2,2-Tetrachloroethane++	83	9.259	9.266	(0.931)	136888	28.2875	28.3	
82 Bromobenzene	77	9.289	9.290	(0.934)	262290	26.6766	26.7	
84 trans-1,4-Dichloro-2-Butene	53	9.301	9.302	(0.935)	30545	27.6102	27.6	
85 n-Propylbenzene	91	9.295	9.296	(0.935)	554081	25.0616	25.1	
86 1,2,3-Trichloropropane	75	9.307	9.308	(0.936)	155692	26.5624	26.6	
87 2-Chlorotoluene	91	9.395	9.396	(0.945)	357576	26.6945	26.7	
88 1,3,5-Trimethylbenzene	105	9.407	9.408	(0.946)	364251	25.3589	25.4	
89 4-Chlorotoluene	91	9.466	9.467	(0.952)	333318	25.9729	26.0	
91 tert-butylbenzene	91	9.624	9.632	(0.968)	229078	26.5221	26.5	
92 1,2,4-Trimethylbenzene	105	9.666	9.667	(0.972)	358155	24.3880	24.4	
96 sec-Butylbenzene	105	9.772	9.773	(0.983)	497739	25.1108	25.1	
97 p-Isopropyltoluene	119	9.860	9.856	(0.992)	397832	25.3480	25.3	
98 1,3-Dichlorobenzene	146	9.901	9.897	(0.996)	223695	25.9276	25.9	
* 99 1,4-DICHLOROBENZENE-D4	152	9.943	9.944	(1.000)	282010	50.0000		
100 1,4-Dichlorobenzene	146	9.960	9.962	(1.002)	229873	26.0758	26.1	
M 101 TOTAL XYLENE	106				545927	76.3628	76.4	
102 n-Butylbenzene	91	10.125	10.127	(1.018)	369380	24.2386	24.2	
103 1,2-Dichlorobenzene	146	10.213	10.209	(1.027)	208783	26.3784	26.4	
104 1,2-Dibromo-3-Chloropropane	157	10.730	10.726	(1.079)	22423	25.6115	25.6	
106 1,2,4-Trichlorobenzene	180	11.264	11.260	(1.133)	129996	25.9327	25.9	
107 Hexachlorobutadiene	225	11.323	11.319	(1.139)	64642	27.1294	27.1	
108 Naphthalene	128	11.452	11.449	(1.152)	319272	25.4326	25.4	
109 1,2,3-Trichlorobenzene	180	11.623	11.620	(1.169)	116269	24.2782	24.3	
140 1-Bromo-2-chloroethane	63	6.994	6.998	(1.158)	179166	24.2536	24.3	7422
154 1-Chlorohexane	91	8.290	8.296	(0.994)	160252	25.1426	25.1	9492
M 139 1-3 Dichloropropene-Total	100				333748	55.2044	55.2	0

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/msv5.i/2050620.s.b/f2183msd.d
Date : 20-JUN-2005 11:21
Client ID: 86-MSD-Q2-05
Sample Info: 20506180508*86-MSD-Q2-05
Purge Volume: 5.0
Column phase: DB-624-30M

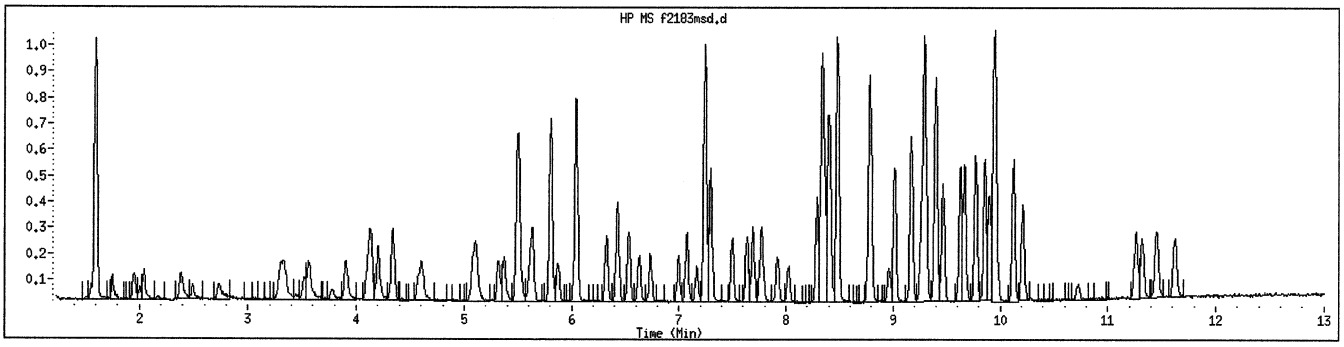
Instrument: msv5.i
Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050620.s.b/f2183msd.d
Report Date: 06/20/2005 12:30

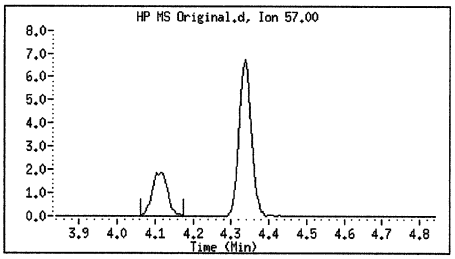
MANUAL INTEGRATION GRAPHIC REPORT

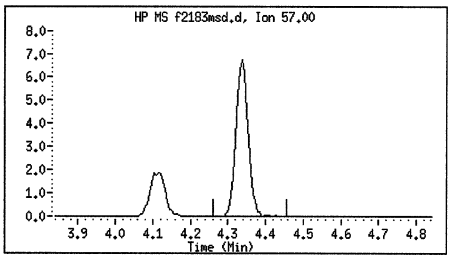
Lab ID	: 20506180508	SampleType	: MSD
Injection Date	: 20-JUN-2005 11:21	Instrument	: msv5.i
Operator	: KCB		
Sample Info	: 20506180508*86-MSD-Q2-05		
Misc Info	: MSV~6435~*1*KCB		
Method	: /var/chem/msv5.i/2050620.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

24 Hexane CAS#: 110-54-3





LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 13-JUN-2005
Instrument: msv5.i
Analyst(s): DLB

Standard	Conc ppm	
Int. Standard	50	5-30-3
Surrogate	50	5-30-3
8260	50	5-30-4
Ac/Ac/VA	250/50	5-31-2
CVE	50	5-27-7

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		f1892.d	0.00	13-JUN-2005 11:11	1.000	2
1207		f1893.d	5.00	13-JUN-2005 12:04	1.000	2
1201		f1895.d	5.00	13-JUN-2005 12:29	1.000	4
1210		f1896.d	5.00	13-JUN-2005 12:53	1.000	5
1202		f1897.d	5.00	13-JUN-2005 13:18	1.000	6
1203		f1898.d	5.00	13-JUN-2005 13:42	1.000	7
1204		f1899.d	5.00	13-JUN-2005 14:06	1.000	8
1205		f1900.d	5.00	13-JUN-2005 14:31	1.000	9
BLANK		f1901.d	5.00	13-JUN-2005 14:56	1.000	10
1600		f1902.d	5.00	13-JUN-2005 15:21	1.000	11
249198		f1904.d	5.00	13-JUN-2005 16:17	1.000	13
MB		f1905.d	5.00	13-JUN-2005 16:42	1.000	4
249197		f1906.d	5.00	13-JUN-2005 17:07	1.000	8
20506031520		f1907.d	5.00	13-JUN-2005 17:35	1.000	9
249199		f1908.d	5.00	13-JUN-2005 18:01	1.000	10
249200		f1909.d	5.00	13-JUN-2005 18:26	1.000	11
BLANK		f1910.d	5.00	13-JUN-2005 18:51	1.000	12
20506031521		f1911.d	5.00	13-JUN-2005 19:16	1.000	13
20506031526	RR x 10	f1912.d	5.00	13-JUN-2005 19:41	1.000	14
20506031539		f1913.d	5.00	13-JUN-2005 20:06	1.000	15
20506031540		f1914.d	5.00	13-JUN-2005 20:31	1.000	16
20506031541		f1915.d	5.00	13-JUN-2005 20:56	1.000	1
20506031542		f1916.d	5.00	13-JUN-2005 21:21	1.000	2
20506030402	rr	f1917.d	5.00	13-JUN-2005 21:46	10000.000	3
20506030403	rr	f1918.d	5.00	13-JUN-2005 22:11	50000.000	4
20506030404	rr	f1919.d	5.00	13-JUN-2005 22:36	50.000	8
20506030405	rr	f1920.d	5.00	13-JUN-2005 23:01	400.000	9

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 20-JUN-2005
Instrument: msv5.i
Analyst(s): KCB

Standard	Conc ppm	
Int. Standard	50	5-30-3
Surrogate	50	5-30-3
8260	50	5-30-4
Ac/Ac/VA	250/50	5-31-2
CVE	50	5-27-7

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		f2173.d	0.00	20-JUN-2005 06:23	1.000	2
1400		f2174.d	5.00	20-JUN-2005 06:53	1.000	1
1400		f2175.d	5.00	20-JUN-2005 07:35	1.000	1
250949		f2176.d	5.00	20-JUN-2005 08:14	1.000	2
250949		f2177.d	5.00	20-JUN-2005 08:39	1.000	3
250948		f2178.d	5.00	20-JUN-2005 09:03	1.000	4
20506170506		f2179.d	5.00	20-JUN-2005 09:42	1.000	5
20506170510		f2180.d	5.00	20-JUN-2005 10:07	1.000	6
20506170501		f2181.d	5.00	20-JUN-2005 10:31	1.000	7
20506170507		f2182ms.d	5.00	20-JUN-2005 10:56	1.000	8
20506170508		f2183msd.d	5.00	20-JUN-2005 11:21	1.000	9
BLANK		f2184.d	5.00	20-JUN-2005 11:45	1.000	10
20506170502		f2185.d	5.00	20-JUN-2005 12:10	1.000	11
20506170503		f2186.d	5.00	20-JUN-2005 12:34	1.000	12
20506170504		f2187.d	5.00	20-JUN-2005 12:59	1.000	13
20506170505		f2188.d	5.00	20-JUN-2005 13:24	1.000	14
20506170509		f2189.d	5.00	20-JUN-2005 13:49	1.000	15
20506170511		f2190.d	5.00	20-JUN-2005 14:13	1.000	5
20506150406		f2191.d	5.00	20-JUN-2005 14:38	40.000	16
20506150409		f2192.d	5.00	20-JUN-2005 15:03	40.000	1
20506150412		f2193.d	5.00	20-JUN-2005 15:28	40.000	2
20506150416	RR BAD PURGE	f2194.d	5.00	20-JUN-2005 15:52	40.000	3
20506150416		f2195.d	5.00	20-JUN-2005 16:27	40.000	4
MDL CHECK 0.2		f2196.d	5.00	20-JUN-2005 16:58	1.000	1
MDL CHECK 0.5		f2197.d	5.00	20-JUN-2005 17:23	1.000	2
MDL CHECK 1.0		f2198.d	5.00	20-JUN-2005 17:48	1.000	3
LOG-IN STORAGE B		f2199.d	5.00	20-JUN-2005 18:18	1.000	4

REVISED 01/01/2000

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
8260 Std	5-27-1 ~~5-29~~ KCD 3-29-05	Q-4115	NSI	031505-02 03/07	3.125 mL	25 mL	250 ppm	CH_3OH 045850	KCD	3/29/05	9/29/05
		Q-4116		032204-01 09/05	3.125 mL						
KCD 3-29-05		C-303-28		C-303-28 12/06	6.250 mL						
		1-bromo-2 chloroethane 1407-01-02		1407-01-02 07/06	3.125 mL						
Tetrahydro FURAN	5-27-1	685-03-02	NSI	685-03-02 07/06	1 mL	10 mL	250 PPM	MeOH 07/06	RPTS	03/30/05	09/29/05
CLP-2.1 IS/SS	5-27-2	C-157-05	NCI 2500 mg/L	C-157-05 Exp-10-06	0.5 ml	50 ml	25 PPM	CH3OH	RW	3-30-05	9-29-05
		233-04-07	2000 mg/L	233-04-07 Exp-10-05	0.625 ml		↓	045850			
Sodium Bisulfate	5-27-3	Fisher 028207	Fisher	028207 N/A	200 g	1000 mL	200 g/L	DI H_2O	JCK	4-1-05	10-1-05
AC/AC	5-27-4	Q-2143	NSI	111904 Exp 05/05	1.25 ml	10 ml	50 ppm	DI H_2O	MEE	4-5-05	5-9-05
8260 STD	5-27-5	Q-4115 2000 ppm	NSI	03-1505-02 Exp-03-07	3.125 ml		250 ppm	MeOH	RCR	4-5-05	09-30-05
		Q-4116 2000 ppm		032204-01 Exp-09 05	3.125 ml	25 ml		045850			
		C-303-28 1000 ppm		C-303-28 Exp-12-06	6.250 ml						
		1-bromo 2-chloro ethane		1407-01-02 Exp 07-06	3.125 ml						
		1-chloro hexane 20000 ppm		80103/120304 Exp-120309	0.3125 ml						
8260 SS	5-27-6	C-440-07	NSI	C-440-07 Exp 12/06	1.0 mL	10 mL	250 PPM	MeOH 045850	RPTS	4/8/05	10/07/05
2CVE	5-27-7	NSI 17-04-08	NSI	17-04-08 02/06	6.25 ml	25 ml	250 ppm	CH_3OH 045850	RJO	4/9/05	10/8/05
1,3-Butadiene	5-27-8	93016 051004	Absolute Standards 2500 ppm	051004 05/10/07	2.5 mL	25 ml	250 ppm	MeOH 045850	RPTS	04/9/05	10/08/05
AP9 Mix 2	5-27-9	93015	ABS	081004 081007	2.5 ml	10 ml	50 ppm	MeOH 045850	RFS	04-9-05	↓

000188

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
8260 ICV ~~5-30-1~~ 5/15/05	5-30-1	Q-4115-alt	NSI	11-05 112003-01	1.25	10ml	250ppm	045850 CH_3OH	RJO	5-15-05	5-31-05
		Q-4116-alt	NSI	5-31-05 112003-01	1.25	10ml	250ppm	045850 CH_3OH	RJO	5-15-05	5-31-05
		C-303-27-alt	NSI	09-05 C-303-27-alt	2.5	10ml	250ppm	045850 CH_3OH	RJO	5-15-05	5-31-05
AC/AC	5-30-2	Q-2143	NSI	031505 Exp 0905	1.25ml	10ml	50ppm	DI H_2O	RSP	5-21-05	9-20-05
8260 IS/SS	5-30-3	C-441-06	NSI	12/07 C-441-06	1.0ml	100ml	25ppm	045850 CH_3OH	RJO	5-24-05	11-23-05
		C-440-07	NSI	12/06 C-440-07	1.0ml	100ml	25ppm	045850 CH_3OH	RJO	5-24-05	11-23-05
8260 STD	5-30-4	Q-4115 2000ppm	NSI	03150502 Exp-03-07	3.125 ml		250 ppm	CH_3OH 045850	RSP	5-26-05	11-25-05
		Q-4116 2000ppm		040105-01 Exp-10-06	3.125 ml	25 ml					
		C-303-28 1000ppm		C-303-28 Exp-12-06	6.250 ml						
	1407 01-03	1-bromo 2chloro ethane	2000ppm	1407-01-03 Exp-03-07	3.125 ml						
	80103	1-chloro hexane 20000ppm	Abs	120304 Exp 120309	0.3125 ml						
Ac/Ac	5-30-5	Q-2143	NSI	031505-05 Exp 0905	1.25mL	10mL	50ppm	DI H_2O	JCK	5-29-05	9-30-05
8260 ICV	5-30-6	Q-4115-alt	NSI	11-05 112003-01	1.25ml ~~3.125~~	10ml	250ppm	CH_3OH	RJO	6-1-05	9-31-05
	5-30-6	Q-4116-alt	NSI	12-06 051805-01	1.25ml	10ml	250ppm	CH_3OH	RJO	6-1-05	9-31-05
	5-30-6	C-303-27	NSI	09-05 C-303-27	2.5ml	10ml	250ppm	CH_3OH	RJO	6-1-05	9-31-05
Dates 05-02-05 – 06-01-05 were reviewed by QA/QC Dept on 6-1-05											
8260 IS	5-30-7	C-441-06 2500ppm	NSI	C-441-06 Exp-12-07	2.0ml	100ml	50ppm	CH_3OH 045850	RSP	6-3-05	12-2-05
8260 SS	5-30-8	C-440-07 2500ppm	NSI	C-440-07 Exp-12-06	2.0ml	100ml	50ppm	CH_3OH 045850	RSP	6-3-05	12-2-05

00001189

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
App-2 mix	5-31-1	93015	Abs	033005 EXP-033008	2.5ml	10ml	50ppm	meOH ~~043~~ 045850	RBP	6-4-05	12-3-05
Ac/Ac	5-31-2	Q-2143	NCI	031506-05 exp-09 05	1.25ml	10ml	DI H2O 50ppm	DI H2O	RP	6-5-05	9-30-05
Tetrahydrofuran	5-31-3	685-03-02	NSI	685-03-02 Exp 07/06	(1000mg/mL) 1.25mL	5mL	250ppm	MeOH 045850	JCK	6-6-05	12-5-05
CLP 2.1 Keytone	5-31-4	C-109-11A	NSI	C-109-11A Exp. 03/06	1.0mL	10mL	200ppm	D.I. H2O	JCK	6-20-05	12-19-05
CLP 2.1 IS/SS	5-31-5	C-157-05	NCI 2000ppm	C-157-05 Exp-10-06	.5ml	50ml	25ppm	meOH	RP	6-22-05	10-30-05
		233-04-07	2000ppm	233-04-07 Exp-10-05	.625ml			045850			
2CVE	5-31-6	17-04-08 1000ppm	NCI	17-04-08 Exp-02-06	6.25ml	25ml	250ppm	meOH 045850	RP	6-22-05	12-21-05
Ac/Ac	5-31-7	Q-2143	NSI	031505-05 exp: 09/05	1.25mL	10mL	50ppm	DI H2O	JCK	6-24-05	9-30-05
Sodium Bisulfate solution	5-31-8	Fisher 034263	Fisher	034263 NA	200g	1000mL	200g/L	DI H2O	KCB	6-24-05	12-24-05
8260 SURROGATE	5-31-9	NSI C440-07	NSI	C-440-07 Exp 12/06	1.0ml	10.0ml	250 ppm	CH3OH Fisher 045850	RJO	6-26-05 ~~6-26-06~~	12-25-05

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

GC Column (1): 201TP-0.15 ID: 2.1 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8310

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	86-CEF43-2N-Q2-05	67	40	140														0
2 .	86-CEF43-6N-Q2-05	81	40	140														0
3 .	86-CEF43-7N-Q2-05	81	40	140														0
4 .	86-CEF43-9N-Q2-05	86	40	140														0
5 .	86-CEF43-33N-Q2-05	85	40	140														0
6 .	86-CEF43-38N-Q2-05	84	40	140														0
7 .	86-MS-Q2-05	81	40	140														0
8 .	86-MSD-Q2-05	70	40	140														0
9 .	86-DUP-Q2-05	82	40	140														0
10 .	86-EB-Q2-05	76	40	140														0
11 .	MB250576	83	40	140														0
12 .	LCS250577	86	40	140														0
13 .	LCSD250578	84	40	140														0

SMC 1 : p-Terphenyl SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II ORG-II

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: SW-846 8310

Prep Batch: 293866 Analytical Batch: 294605

SAMPLE NO : 250577

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/L	5	0	4.6	92		40 - 140
2-Methylnaphthalene	ug/L	5	0	4.16	83		40 - 140
Acenaphthene	ug/L	5	0	4.2	84		40 - 140
Acenaphthylene	ug/L	5	0	4.69	94		40 - 140
Anthracene	ug/L	5	0	4.18	84		40 - 140
Benzo(a)anthracene	ug/L	5	0	4.71	94		40 - 140
Benzo(a)pyrene	ug/L	5	0	4.43	89		40 - 140
Benzo(b)fluoranthene	ug/L	5	0	4.58	92		40 - 140
Benzo(g,h,i)perylene	ug/L	5	0	4.64	93		40 - 140
Benzo(k)fluoranthene	ug/L	5	0	4.5	90		40 - 140
Chrysene	ug/L	5	0	4.76	95		40 - 140
Dibenz(a,h)anthracene	ug/L	5	0	3.01	60		40 - 140
Fluoranthene	ug/L	5	0	4.64	93		40 - 140
Fluorene	ug/L	5	0	4.52	90		40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	5	0	4.96	99		40 - 140
Naphthalene	ug/L	5	0	4.47	89		40 - 140
Phenanthrene	ug/L	5	0	4.49	90		40 - 140
Pyrene	ug/L	5	0	5.09	102		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: SW-846 8310

Prep Batch: 293866 Analytical Batch: 294605

SAMPLE NO : ***250578***

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/L	5	4.13	83		11		40 - 140	0 - 30
2-Methylnaphthalene	ug/L	5	3.59	72		15		40 - 140	0 - 30
Acenaphthene	ug/L	5	3.82	76		9		40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.2	84		11		40 - 140	0 - 30
Anthracene	ug/L	5	4.16	83		.5		40 - 140	0 - 30
Benzo(a)anthracene	ug/L	5	4.62	92		2		40 - 140	0 - 30
Benzo(a)pyrene	ug/L	5	4.29	86		3		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	5	4.46	89		3		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	5	4.28	86		8		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	5	4.34	87		4		40 - 140	0 - 30
Chrysene	ug/L	5	4.72	94		.8		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	5	2.71	54		10		40 - 140	0 - 30
Fluoranthene	ug/L	5	4.52	90		3		40 - 140	0 - 30
Fluorene	ug/L	5	4.44	89		2		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	5	4.6	92		8		40 - 140	0 - 30
Naphthalene	ug/L	5	4.08	82		9		40 - 140	0 - 30
Phenanthrene	ug/L	5	4.44	89		1		40 - 140	0 - 30
Pyrene	ug/L	5	4.96	99		3		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

FORM III ORG-1

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-CEF43-33N-Q2-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: SW-846 8310

Prep Batch: 293866 Analytical Batch: 294605

SAMPLE NO : 20506170507

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/L	5	0	4.4	88		40 - 140
2-Methylnaphthalene	ug/L	5	0	3.85	77		40 - 140
Acenaphthene	ug/L	5	0	3.79	76		40 - 140
Acenaphthylene	ug/L	5	0	4.32	86		40 - 140
Anthracene	ug/L	5	0	3.76	75		40 - 140
Benzo(a)anthracene	ug/L	5	0	3.57	71		40 - 140
Benzo(a)pyrene	ug/L	5	0	3.05	61		40 - 140
Benzo(b)fluoranthene	ug/L	5	0	3.34	67		40 - 140
Benzo(g,h,i)perylene	ug/L	5	0	4.05	81		40 - 140
Benzo(k)fluoranthene	ug/L	5	0	3.09	62		40 - 140
Chrysene	ug/L	5	0	3.31	66		40 - 140
Dibenz(a,h)anthracene	ug/L	5	0	3.11	62		40 - 140
Fluoranthene	ug/L	5	0	4.22	84		40 - 140
Fluorene	ug/L	5	0	4.46	89		40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	5	0	4.03	81		40 - 140
Naphthalene	ug/L	5	0	4.36	87		40 - 140
Phenanthrene	ug/L	5	0	4.37	87		40 - 140
Pyrene	ug/L	5	0	4.66	93		40 - 140

RPD : 3 out of 18 outside limits

Spike Recovery: 1 out of 36 outside limits

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-CEF43-33N-Q2-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: SW-846 8310

Prep Batch: 293866 Analytical Batch: 294605

SAMPLE NO : ***20506170508***

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/L	5	4.09	82		7		40 - 140	0 - 30
2-Methylnaphthalene	ug/L	5	3.7	74		4		40 - 140	0 - 30
Acenaphthene	ug/L	5	3.56	71		6		40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.54	91		5		40 - 140	0 - 30
Anthracene	ug/L	5	3.82	76		2		40 - 140	0 - 30
Benzo(a)anthracene	ug/L	5	3.57	71		0		40 - 140	0 - 30
Benzo(a)pyrene	ug/L	5	2.67	53		13		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	5	2.98	60		11		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	5	2.81	56		36	*	40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	5	2.55	51		19		40 - 140	0 - 30
Chrysene	ug/L	5	3.39	68		2		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	5	1.76	35	*	55	*	40 - 140	0 - 30
Fluoranthene	ug/L	5	4.09	82		3		40 - 140	0 - 30
Fluorene	ug/L	5	4.12	82		8		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	5	2.94	59		31	*	40 - 140	0 - 30
Naphthalene	ug/L	5	4.83	97		10		40 - 140	0 - 30
Phenanthrene	ug/L	5	4.07	81		7		40 - 140	0 - 30
Pyrene	ug/L	5	5.02	100		7		40 - 140	0 - 30

RPD : 3 out of 18 outside limits

Spike Recovery: 1 out of 36 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB250576

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 250576

SAS No.: SDG No.: 205061705

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 06/18/05

Date Analyzed (1): 06/28/05 Time (1): 1227

Date Analyzed (2): Time (2):

Instrument ID (1): HPLC 1

Instrument ID (2):

GC Column (1): 201TP-0.15 ID: 2.1 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8310

Prep Batch: 293866 Analytical Batch: 294605

Lab File ID: 050628/H000071

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS250577	250577	06/28/05	1235		
2.	LCSD250578	250578	06/28/05	1243		
3.	86-CEF43-2N-Q2-05	20506170501	06/28/05	1251		
4.	86-CEF43-6N-Q2-05	20506170502	06/28/05	1259		
5.	86-CEF43-7N-Q2-05	20506170503	06/28/05	1307		
6.	86-CEF43-9N-Q2-05	20506170504	06/28/05	1315		
7.	86-CEF43-33N-Q2-05	20506170505	06/28/05	1323		
8.	86-CEF43-38N-Q2-05	20506170506	06/28/05	1331		
9.	86-MS-Q2-05	20506170507	06/28/05	1339		
10.	86-MSD-Q2-05	20506170508	06/28/05	1347		
11.	86-DUP-Q2-05	20506170509	06/28/05	1355		
12.	86-EB-Q2-05	20506170510	06/28/05	1403		

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-2N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170501

Date Collected: 06/16/05 Time: 1050

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1251

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000717

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.01		0.291	1.00
91-57-6	2-Methylnaphthalene	2.53		0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	2.01		0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000717.d
Lab Smp Id: 20506170501 Client Smp ID: 20506170501
Inj Date : 28-JUN-2005 12:51
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170501
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
1 Naphthalene	1.185	1.207	-0.022	5072	2.01009	2.01
3 1-Methynaphthalene	1.585	1.580	0.005	6366	4.00884	4.01
4 2-Methylnaphthalene	1.665	1.673	-0.008	5515	2.53033	2.53
$ 11 p-Terphenyl	3.218	3.307	-0.089	10866	1.33696	1.34(M)

QC Flag Legend

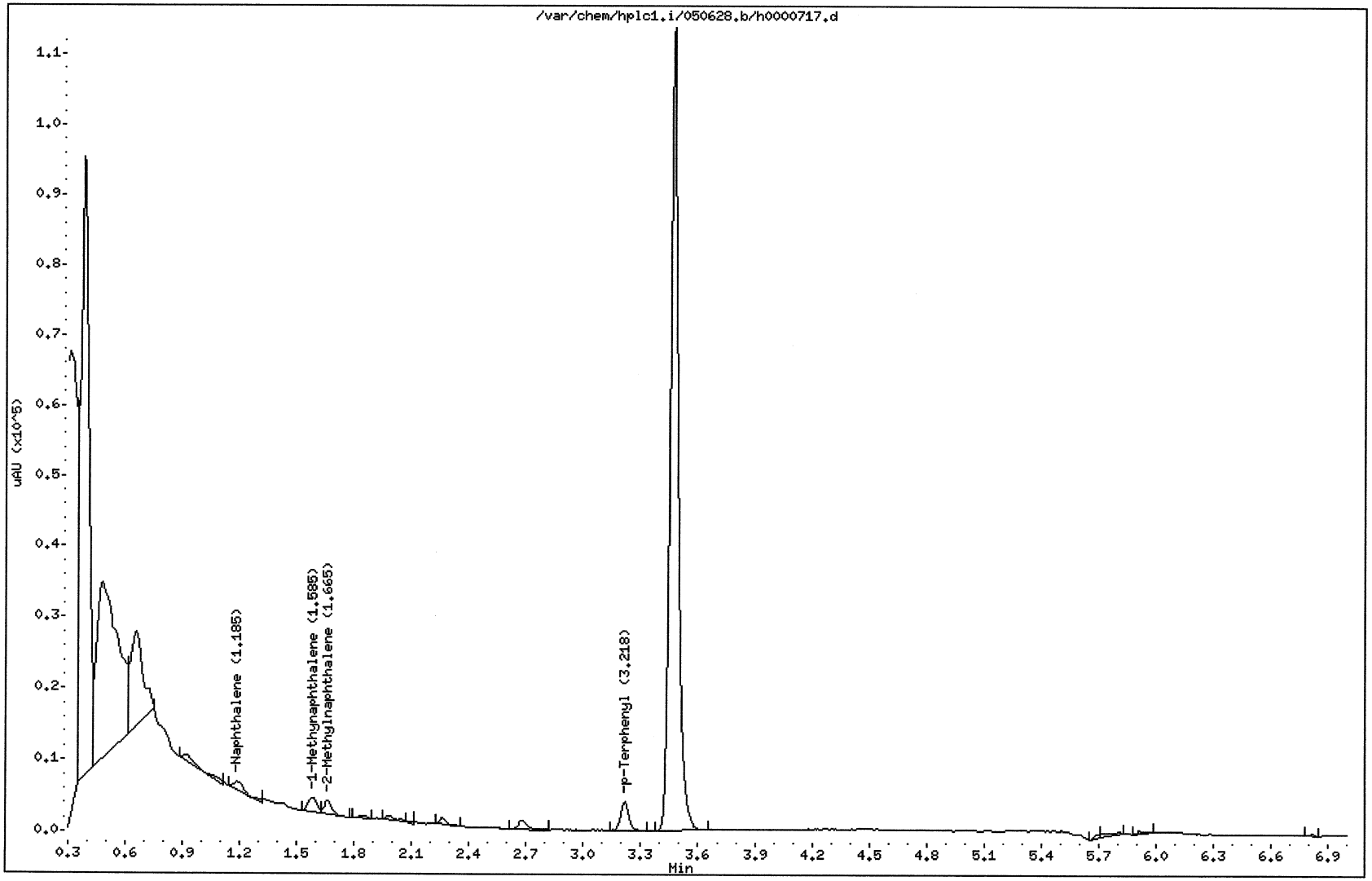
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000717.d
Date : 28-JUN-2005 12:51
Client ID: 20506170501
Sample Info: 20506170501
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Page 1

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050630.s.b/b9732.d
Lab Smp Id: 20506170501 Client Smp ID: 20506170501
Inj Date : 30-JUN-2005 10:37
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20506170501*
Misc Info : 20506170501*MSSV~2718~061705*
Comment :
Method : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Meth Date : 01-Jul-2005 11:03 rlw Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 4 Phenol-d5	99	1.795	1.605	(0.998)	908	0.50888	0.509(aR)
* 10 1,4-Dichlorobenzene-d4	152	1.798	1.786	(1.000)	24846	40.0000	
$ 19 Nitrobenzene-d5	82	2.306	2.158	(0.887)	6680	2.55932	2.56(aR)
* 28 Naphthalene-d8	136	2.601	2.598	(1.000)	92290	40.0000	
* 44 Acenaphthene-d10	164	3.671	3.671	(1.000)	58825	40.0000	
* 61 Phenanthrene-d10	188	4.577	4.576	(1.000)	90127	40.0000	
$ 70 Terphenyl-d14	244	5.595	5.595	(0.880)	2578	1.37625	1.38(aR)
* 74 Chrysene-d12	240	6.359	6.365	(1.000)	93712	40.0000	
* 81 Perylene-d12	264	7.477	7.480	(1.000)	101129	40.0000	
29 Naphthalene	128	2.612	2.612	(1.004)	3491	1.33406	1.33(aM)
33 2-Methylnaphthalene	142	3.035	3.035	(1.167)	4528	2.66300	2.66(a)
145 1-Methylnapthalene	142	3.095	3.095	(1.190)	2848	1.87102	1.87(aM)

QC Flag Legend

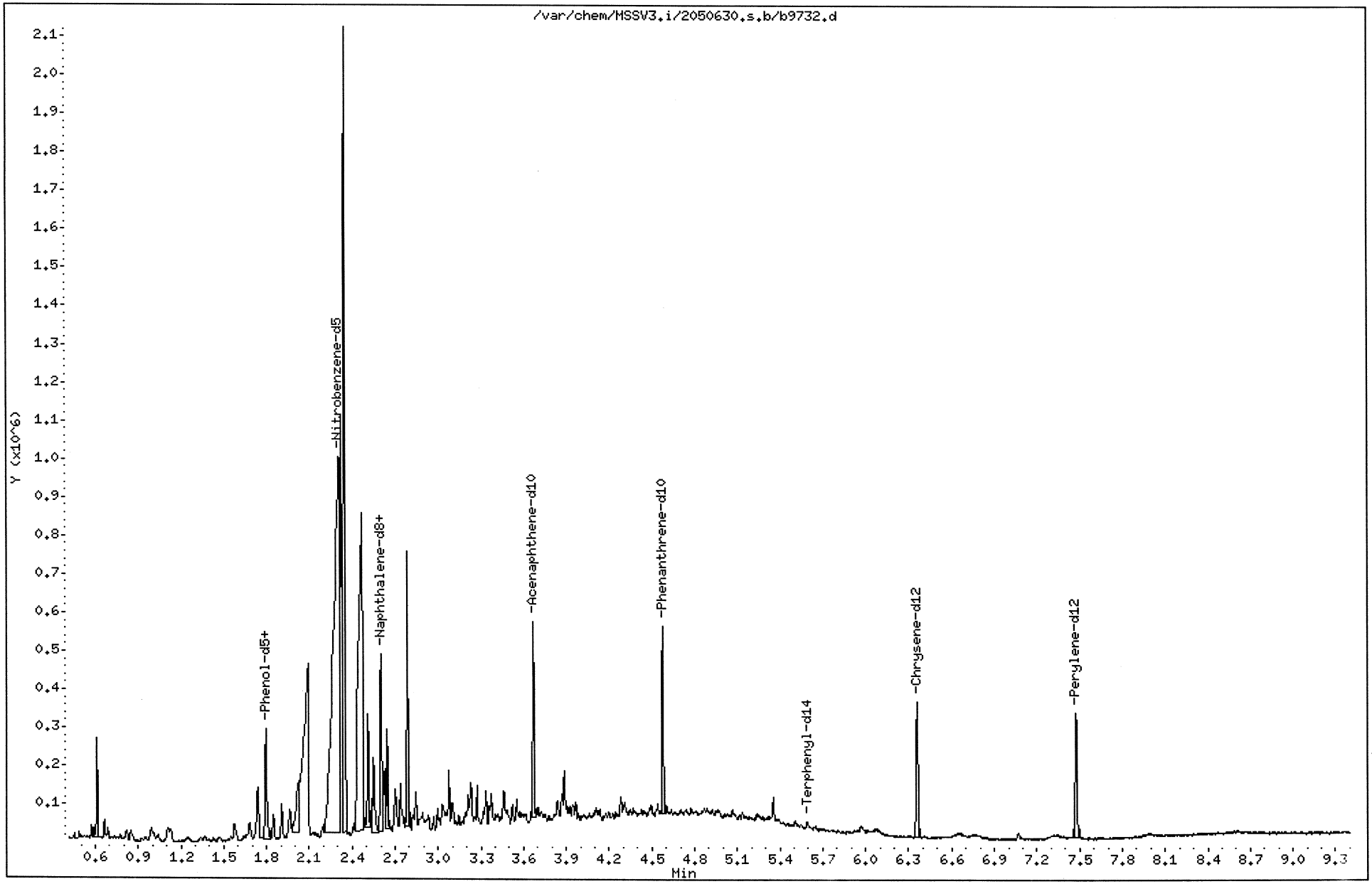
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV3.i/2050630.s.b/b9732.d
Date : 30-JUN-2005 10:37
Client ID: 20506170501
Sample Info: 20506170501*
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3
Column diameter: 0.25

000202



Data File: /var/chem/MSSV3.i/2050630.s.b/b9732.d

Date : 30-JUN-2005 10:37

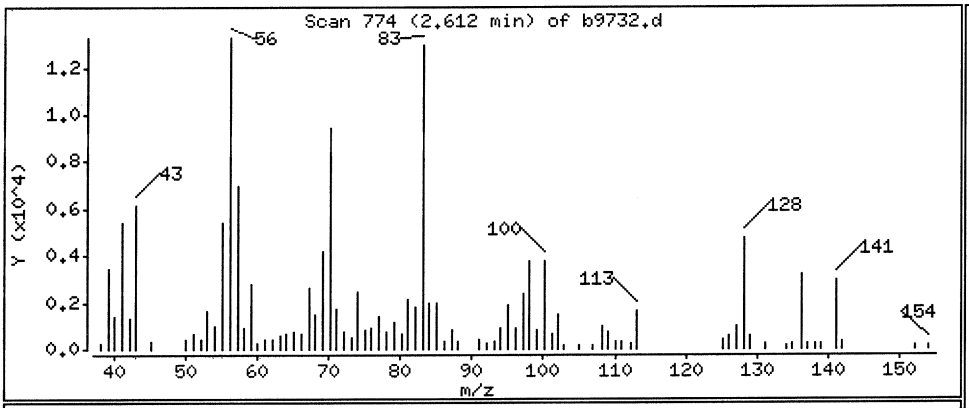
Client ID: 20506170501 Instrument: MSSV3.i

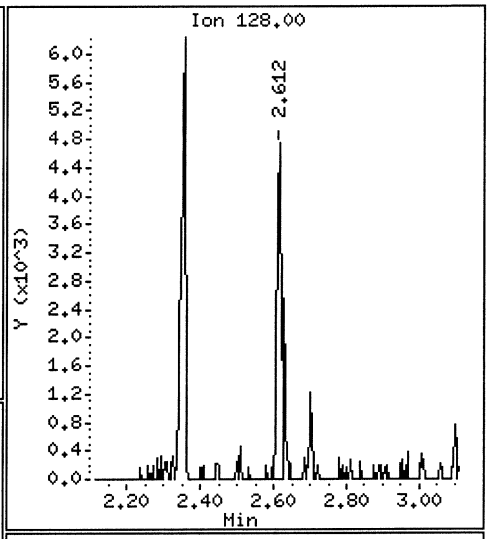
Sample Info: 20506170501*

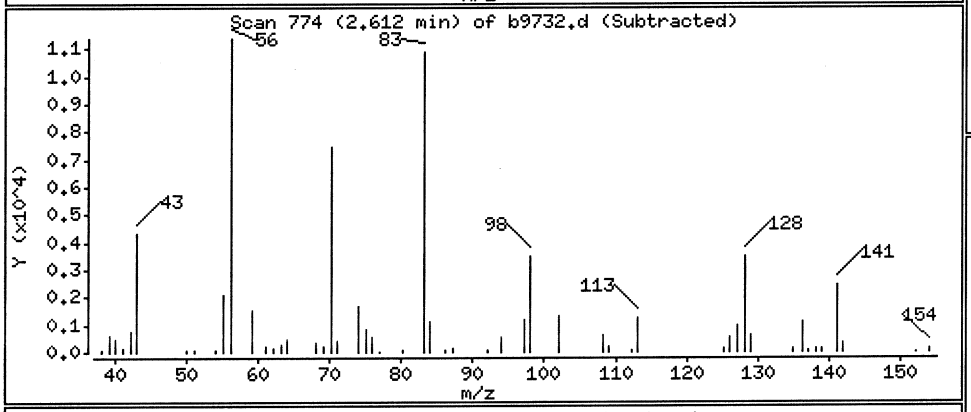
Volume Injected (uL): 1.0 Operator: jar3

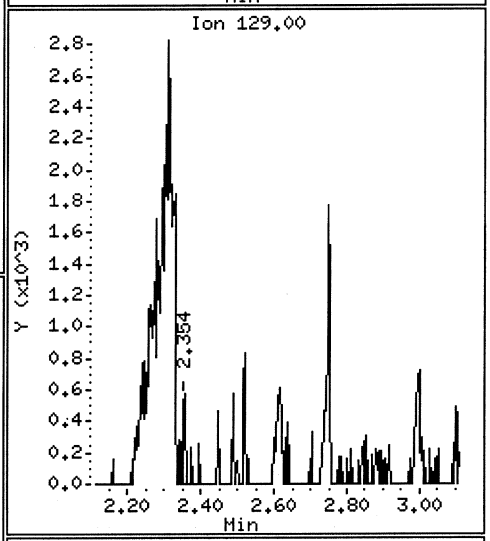
Column phase: RTX-5MS-30M Column diameter: 0.25

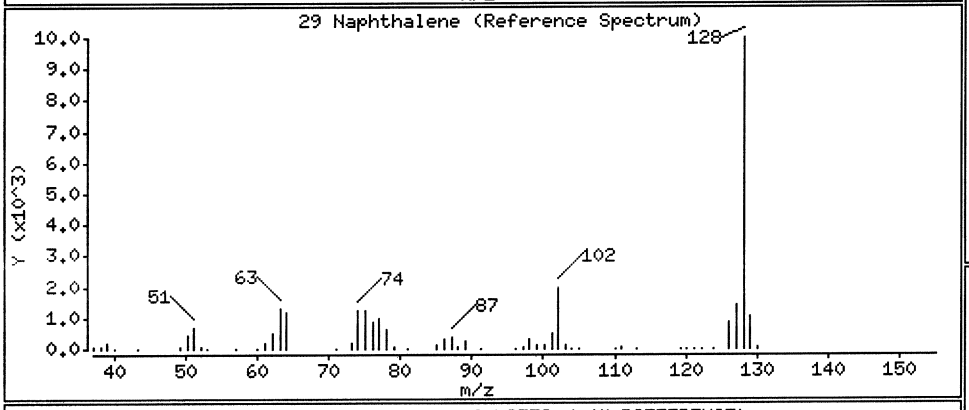
29 Naphthalene Concentration: 1.33 ug/L

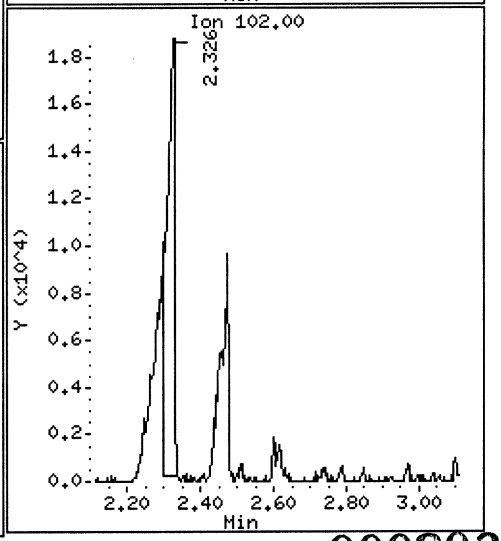


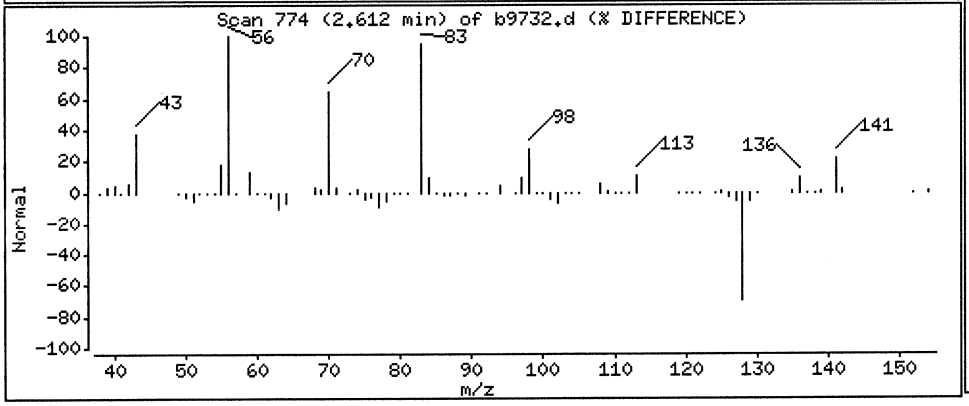












Data File: /var/chem/MSSV3.i/2050630.s.b/b9732.d

Date : 30-JUN-2005 10:37

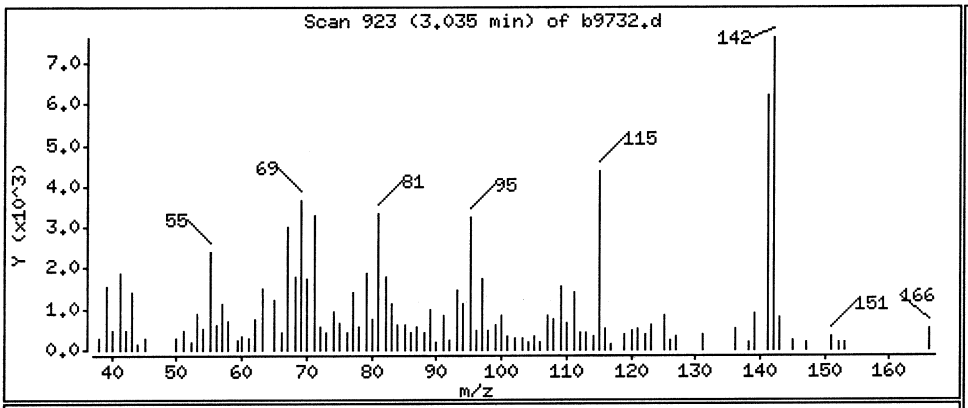
Client ID: 20506170501 Instrument: MSSV3.i

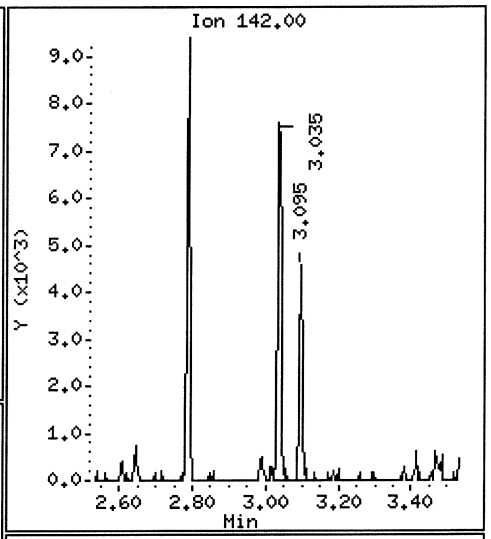
Sample Info: 20506170501*

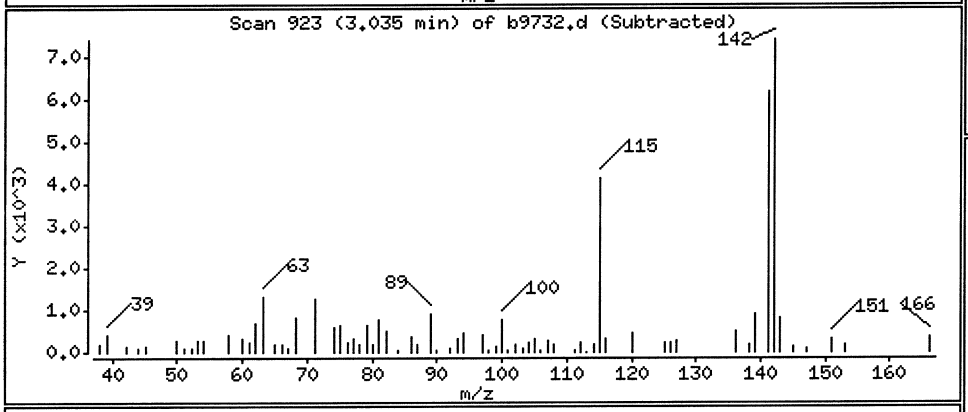
Volume Injected (uL): 1.0 Operator: jar3

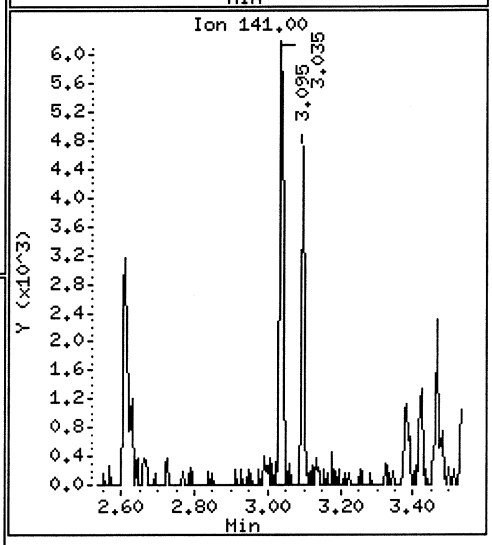
Column phase: RTX-5MS-30M Column diameter: 0.25

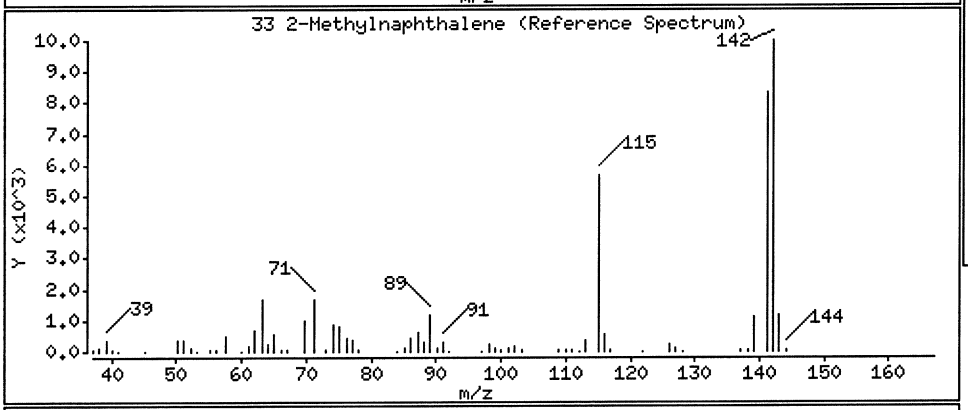
33 2-Methylnaphthalene Concentration: 2.66 ug/L

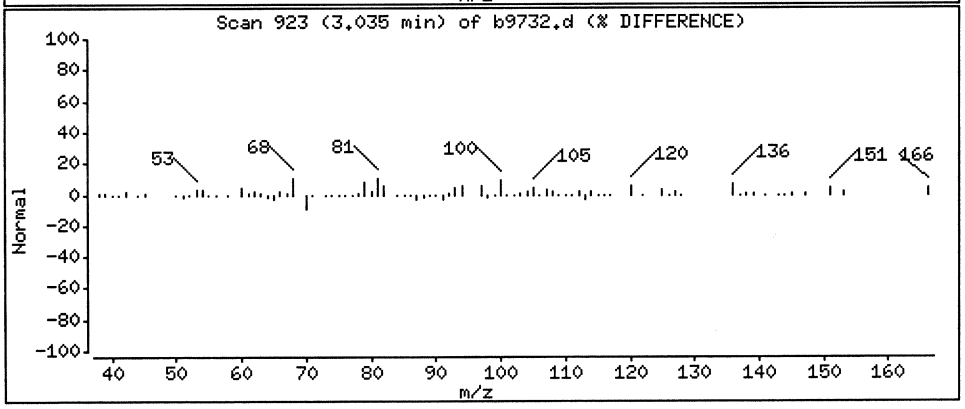












Data File: /var/chem/MSSV3.i/2050630.s.b/b9732.d

Date : 30-JUN-2005 10:37

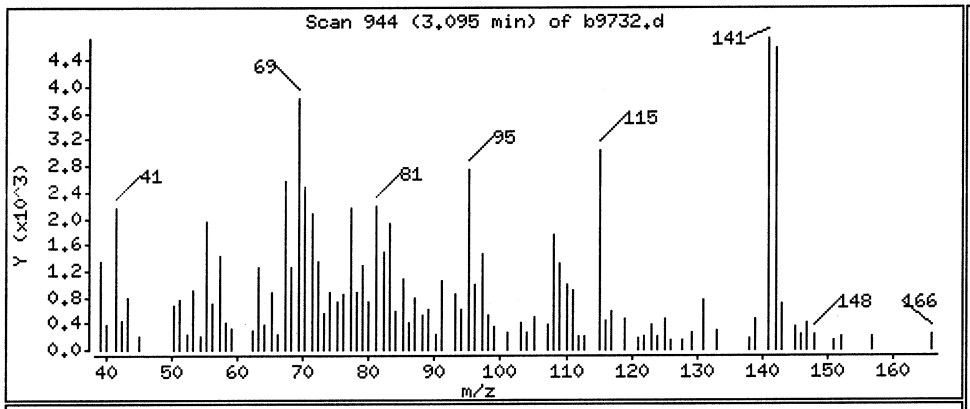
Client ID: 20506170501 Instrument: MSSV3.i

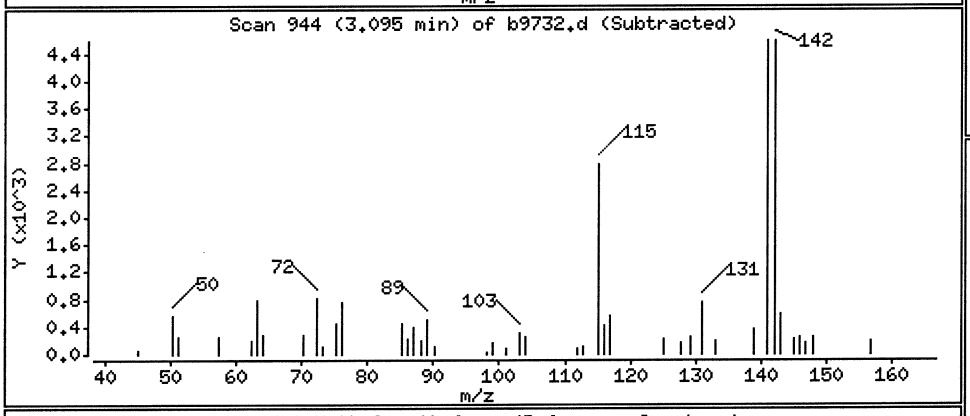
Sample Info: 20506170501*

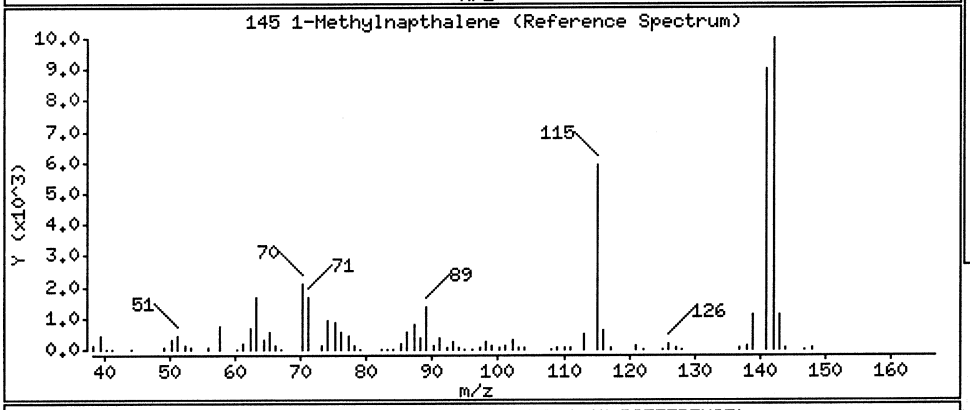
Volume Injected (uL): 1.0 Operator: jar3

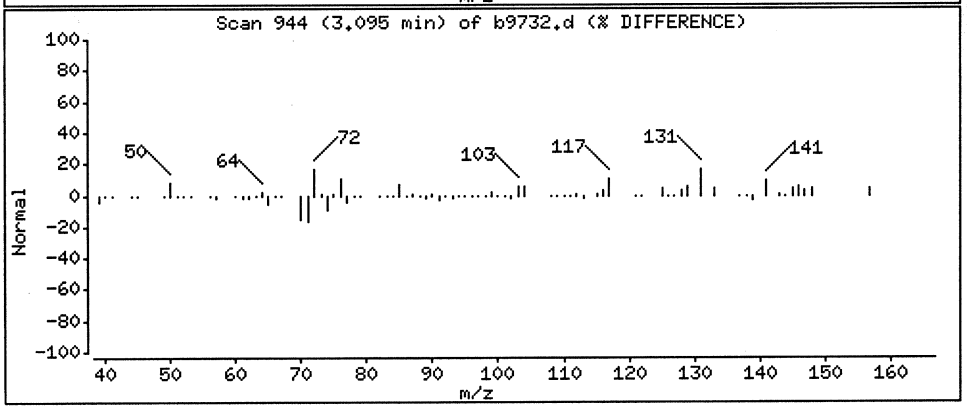
Column phase: RTX-5MS-30M Column diameter: 0.25

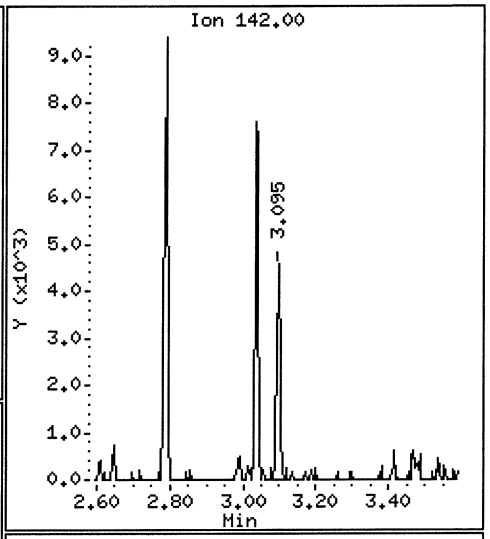
145 1-Methylnapthalene Concentration: 1.87 ug/L

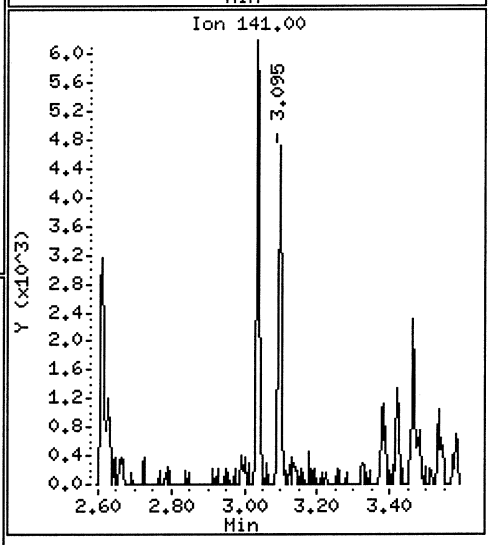












1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-6N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170502

Date Collected: 06/16/05 Time: 1145

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1259

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000718

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000718.d
Lab Smp Id: 20506170502 Client Smp ID: 20506170502
Inj Date : 28-JUN-2005 12:59
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170502
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
$ 11 p-Terphenyl	3.214	3.307	-0.093	13162	1.61948	1.62(M)

QC Flag Legend

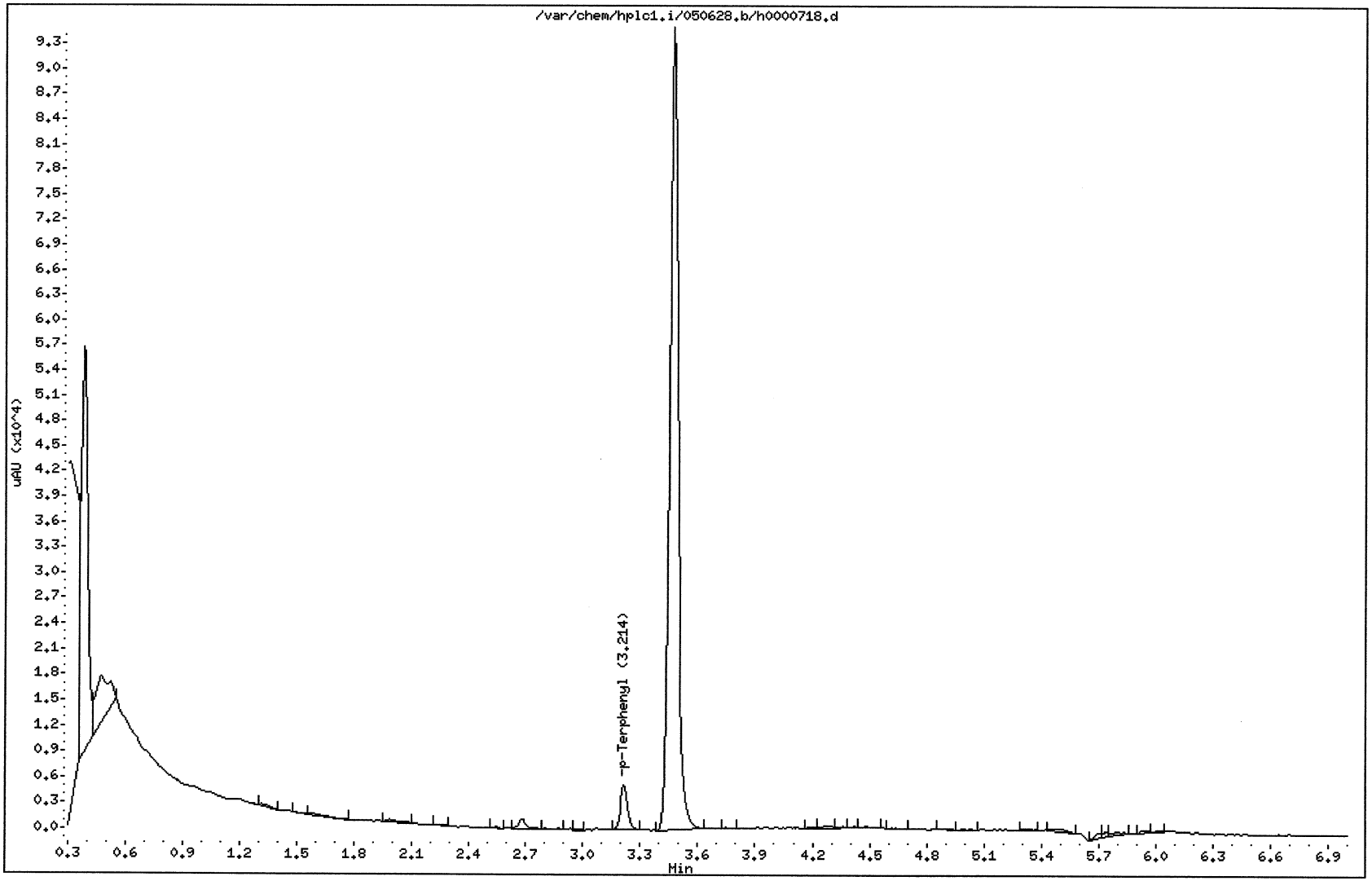
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000718.d
Date : 28-JUN-2005 12:59
Client ID: 20506170502
Sample Info: 20506170502
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Page 1

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-CEF43-7N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170503
Date Collected: 06/16/05 Time: 1320
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1307
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L
Lab File ID: 050628/H0000719

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000719.d
Lab Smp Id: 20506170503 Client Smp ID: 20506170503
Inj Date : 28-JUN-2005 13:07
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170503
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
$ 11 p-Terphenyl	3.209	3.307	-0.098	13162	1.61943	1.62(M)

QC Flag Legend

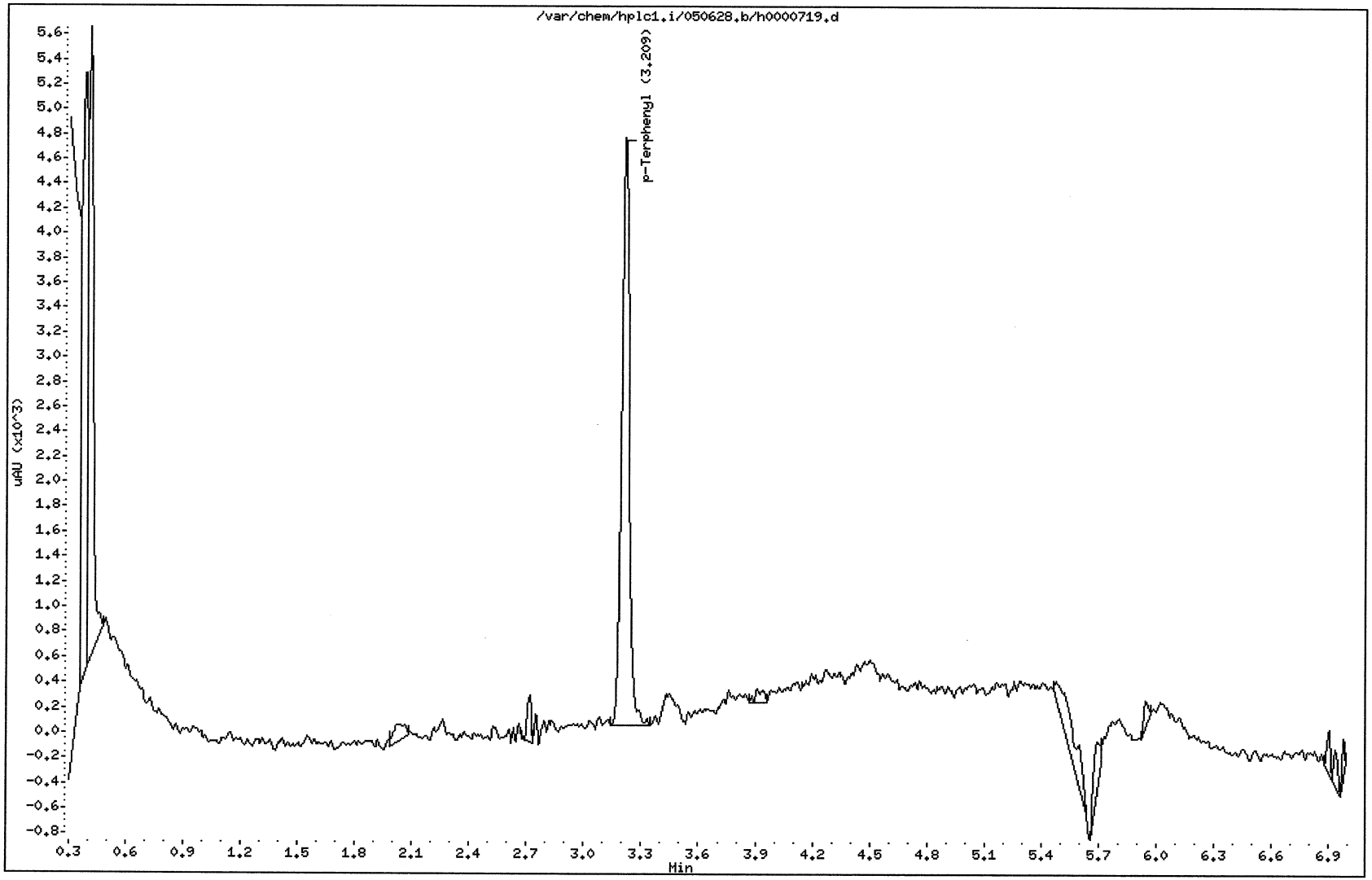
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000719.d
Date : 28-JUN-2005 13:07
Client ID: 20506170503
Sample Info: 20506170503
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Page 1

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



000211

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: 201TP-0.15 ID: 2.1 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 293866 Analytical Batch: 294605

CONCENTRATION UNITS: ug/L

Sample ID: 86-CEF43-9N-Q2-05

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 20506170504

Date Collected: 06/16/05 Time: 1425

Date Received: 06/17/05

Date Extracted: 06/18/05

Date Analyzed: 06/28/05 Time: 1315

Dilution Factor: 1 Analyst: JAR

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

Lab File ID: 050628/H0000720

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	7.87		0.291	1.00
91-57-6	2-Methylnaphthalene	1.73		0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	11.9		0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000720.d
Lab Smp Id: 20506170504 Client Smp ID: 20506170504
Inj Date : 28-JUN-2005 13:15
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170504
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.203	1.207	-0.004	29934	11.8632	11.9
3 1-Methynaphthalene	1.590	1.580	0.010	12498	7.87033	7.87
4 2-Methylnaphthalene	1.670	1.673	-0.003	3777	1.73292	1.73
$ 11 p-Terphenyl	3.217	3.307	-0.090	13862	1.70566	1.71(M)

QC Flag Legend

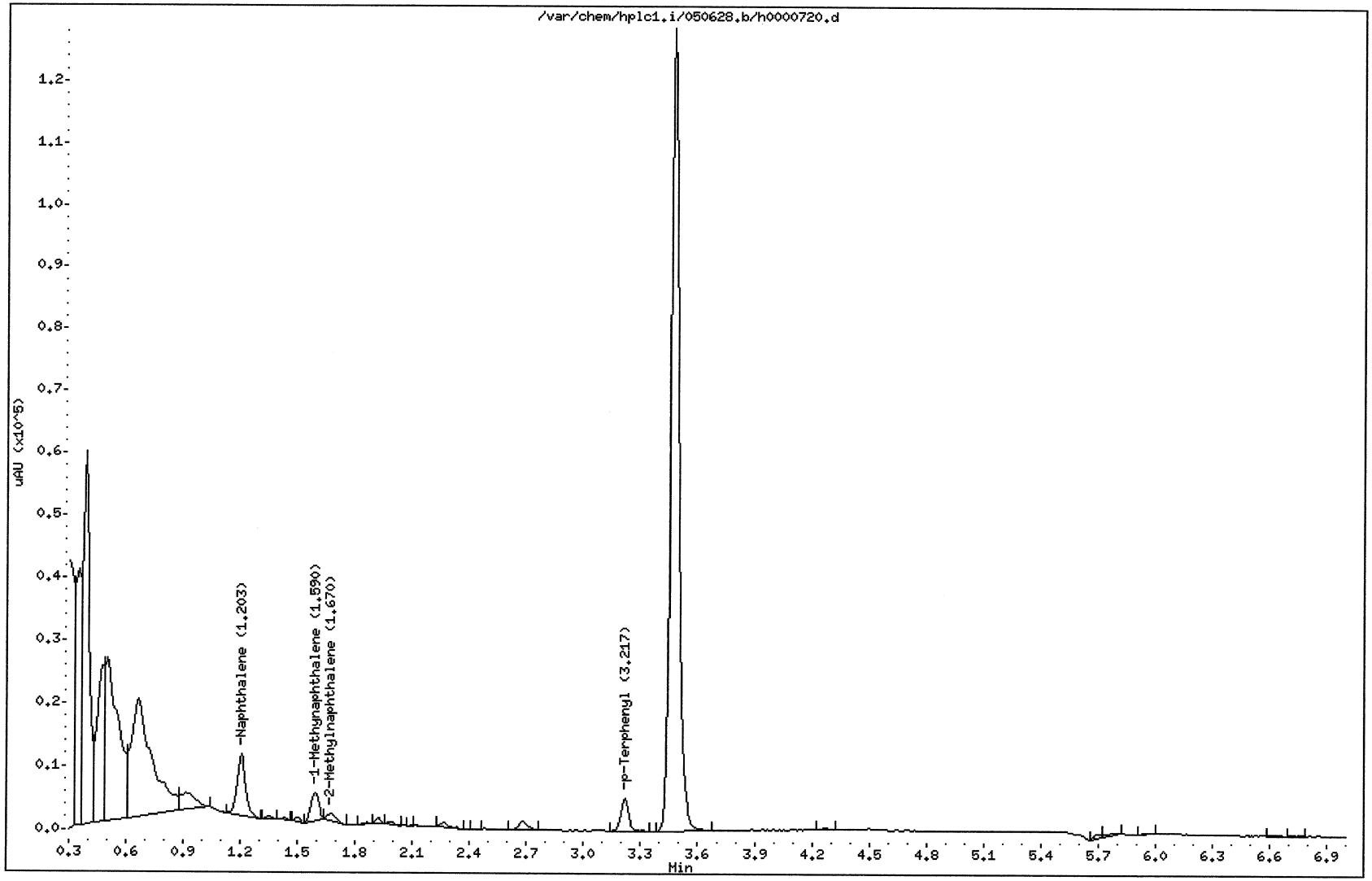
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000720.d
Date : 28-JUN-2005 13:15
Client ID: 20506170504
Sample Info: 20506170504
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Page 1

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050630.s.b/b9733.d
Lab Smp Id: 20506170504 Client Smp ID: 20506170504
Inj Date : 30-JUN-2005 10:53
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20506170504*
Misc Info : 20506170504*MSSV~2718~061705*
Comment :
Method : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Meth Date : 01-Jul-2005 11:03 rlw Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
* 10 1,4-Dichlorobenzene-d4	152	1.786	1.786	(1.000)	22280	40.0000	
$ 19 Nitrobenzene-d5	82	2.570	2.158	(0.990)	1983	0.86394	0.864(aR)
* 28 Naphthalene-d8	136	2.595	2.598	(1.000)	81160	40.0000	
* 44 Acenaphthene-d10	164	3.668	3.671	(1.000)	53049	40.0000	
* 61 Phenanthrene-d10	188	4.574	4.576	(1.000)	90309	40.0000	
$ 70 Terphenyl-d14	244	5.592	5.595	(0.879)	4427	2.44335	2.44(aR)
* 74 Chrysene-d12	240	6.359	6.365	(1.000)	90643	40.0000	
* 81 Perylene-d12	264	7.474	7.480	(1.000)	97707	40.0000	
29 Naphthalene	128	2.609	2.612	(1.005)	24697	10.7320	10.7
33 2-Methylnaphthalene	142	3.035	3.035	(1.169)	3722	2.48917	2.49(a)
145 1-Methylnapthalene	142	3.092	3.095	(1.191)	2185	1.63239	1.63(aM)

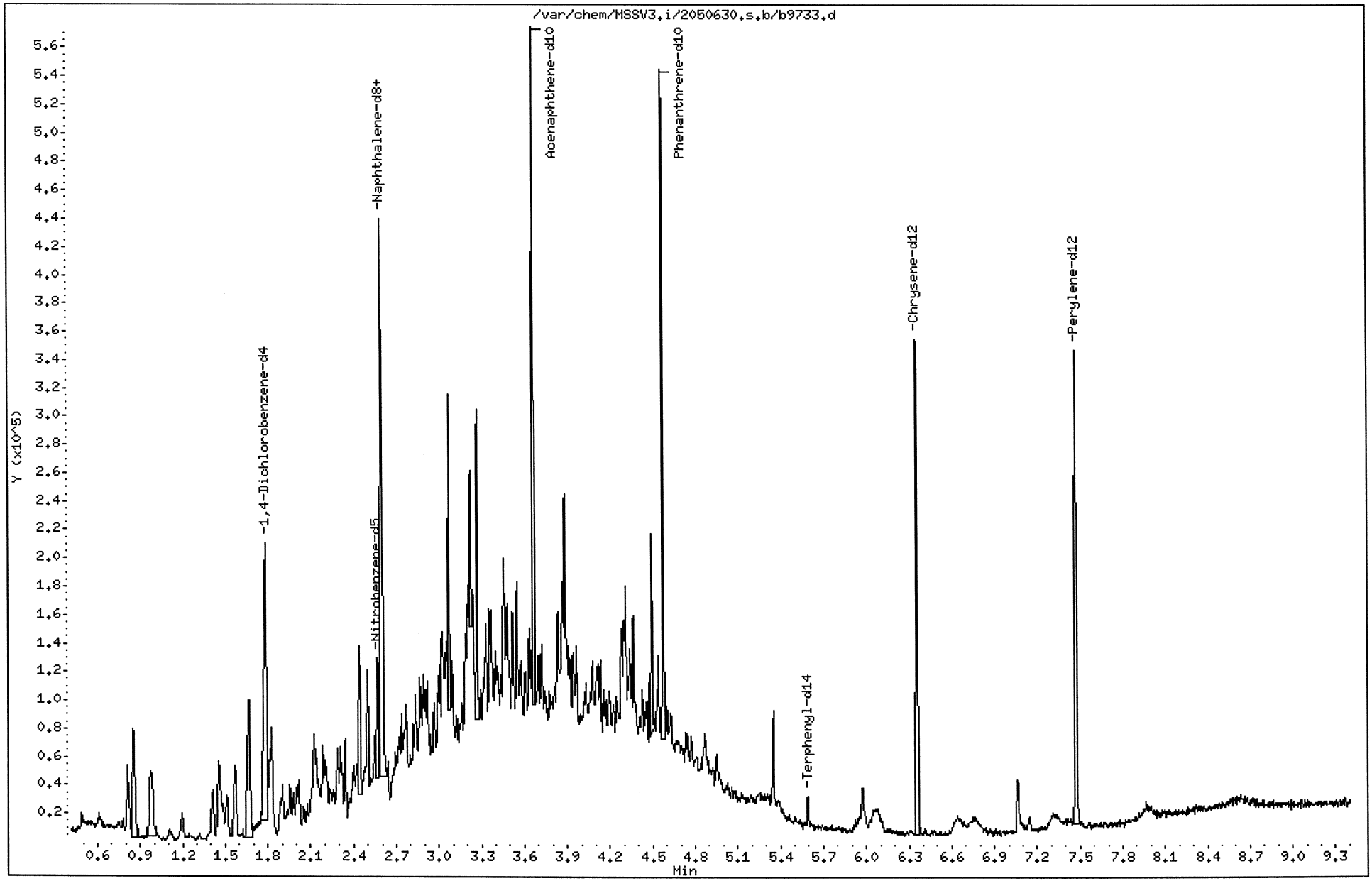
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

000217

Data File: /var/chem/MSSV3.i/2050630.s.b/b9733.d
Date : 30-JUN-2005 10:53
Client ID: 20506170504
Sample Info: 20506170504*
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25



Data File: /var/chem/MSSV3.i/2050630.s.b/b9733.d

Date : 30-JUN-2005 10:53

Client ID: 20506170504

Instrument: MSSV3.i

Sample Info: 20506170504*

Volume Injected (uL): 1.0

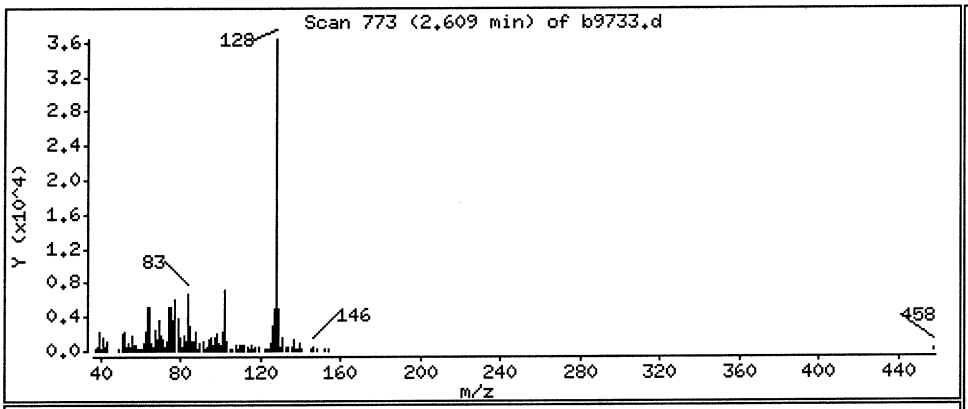
Operator: jar3

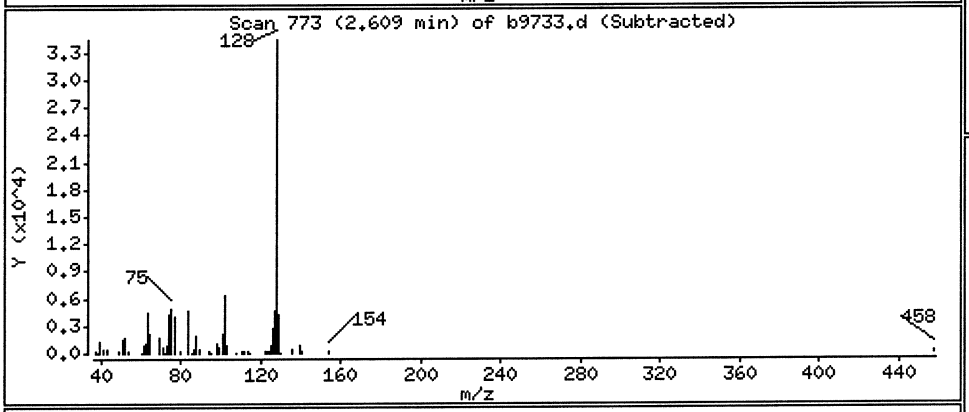
Column phase: RTX-5MS-30M

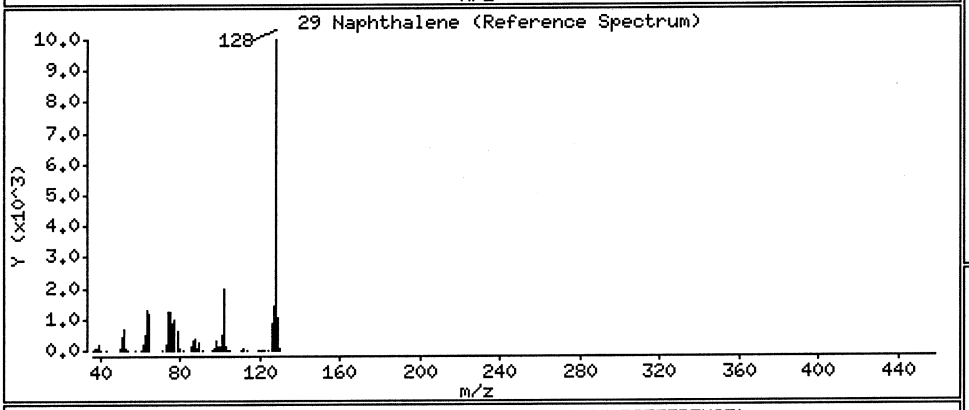
Column diameter: 0.25

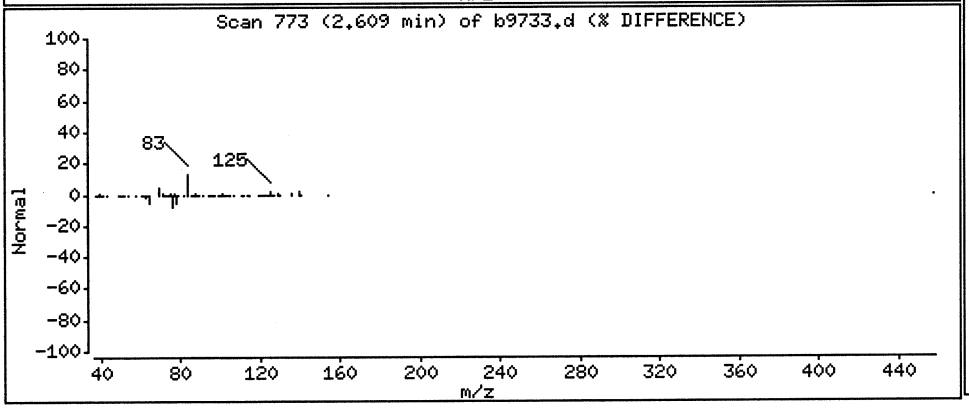
29 Naphthalene

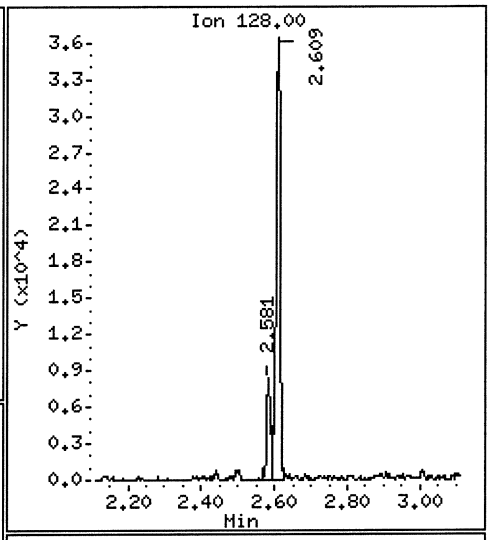
Concentration: 10.7 ug/L

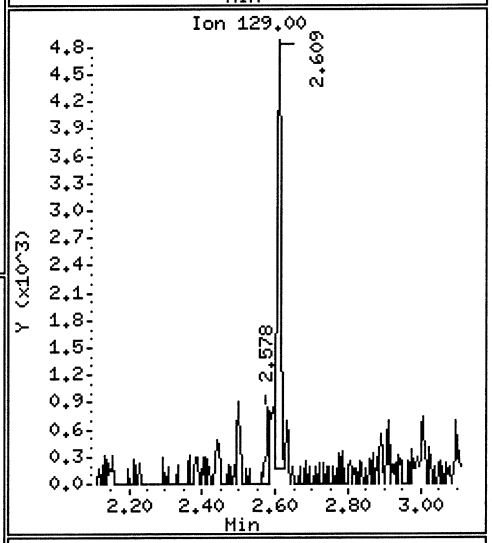


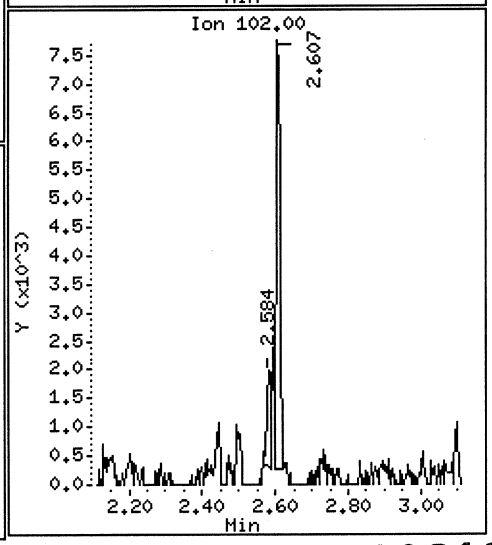












Data File: /var/chem/MSSV3.i/2050630.s.b/b9733.d

Date : 30-JUN-2005 10:53

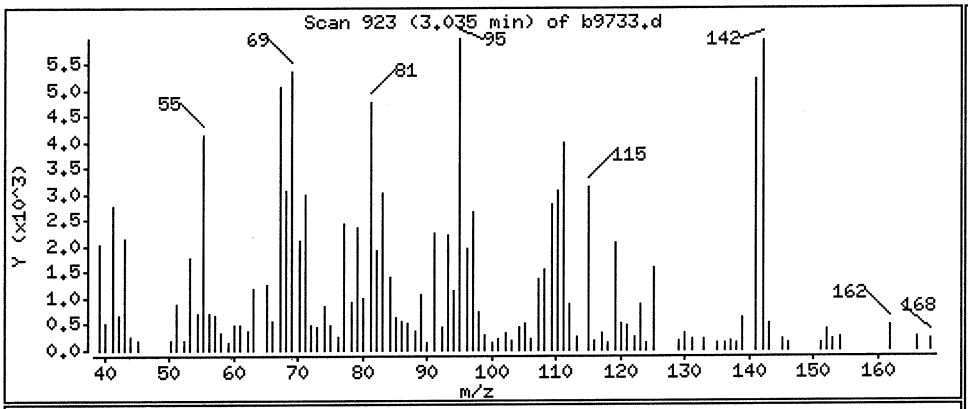
Client ID: 20506170504 Instrument: MSSV3.i

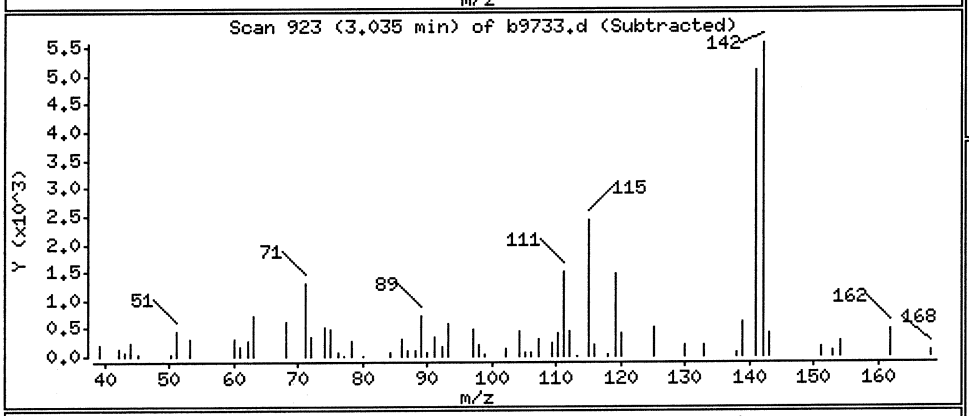
Sample Info: 20506170504*

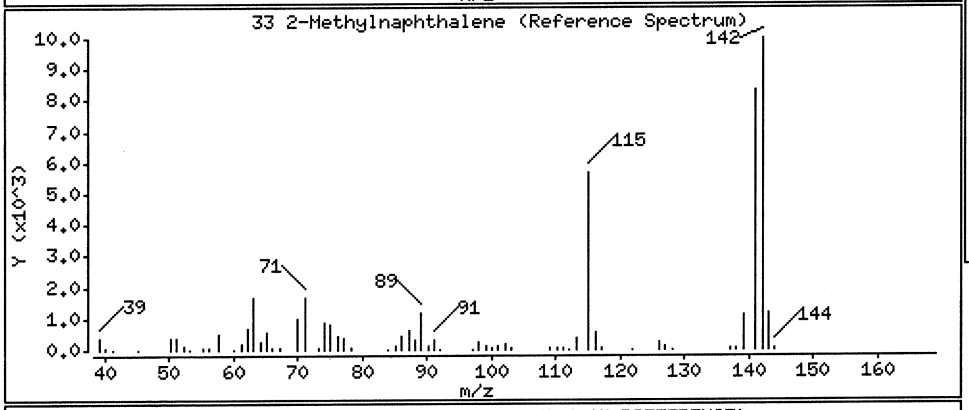
Volume Injected (uL): 1.0 Operator: jar3

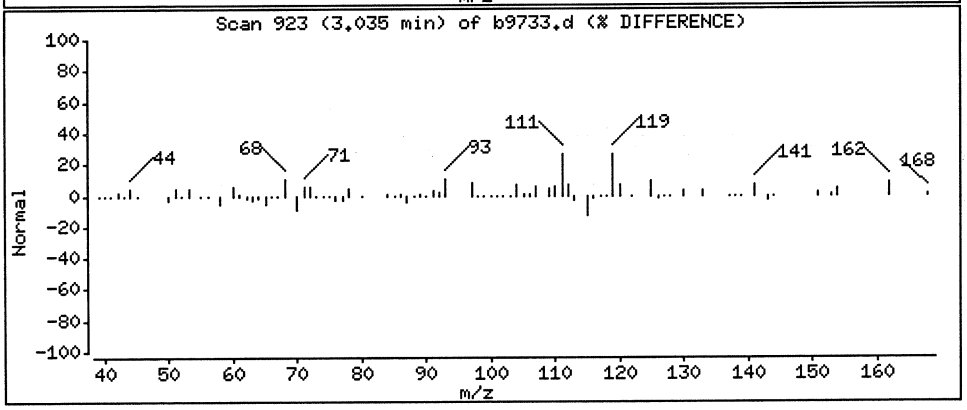
Column phase: RTX-5MS-30M Column diameter: 0.25

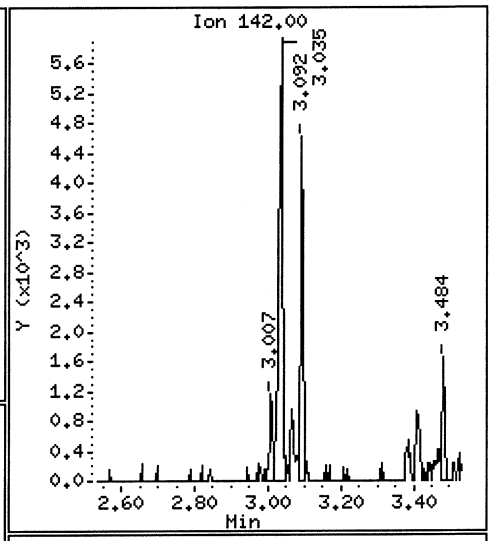
33 2-Methylnaphthalene Concentration: 2.49 ug/L

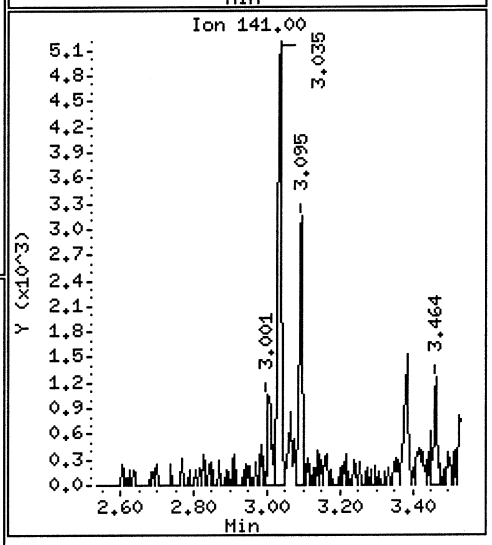












Data File: /var/chem/MSSV3.i/2050630.s.b/b9733.d

Date : 30-JUN-2005 10:53

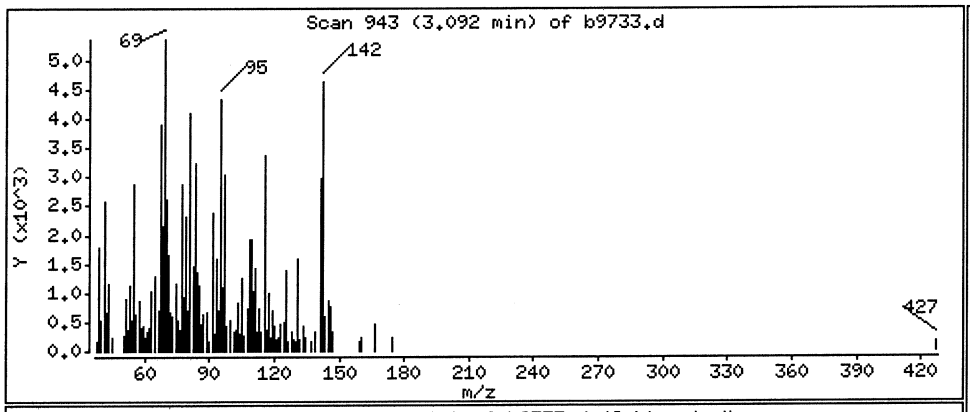
Client ID: 20506170504 Instrument: MSSV3.i

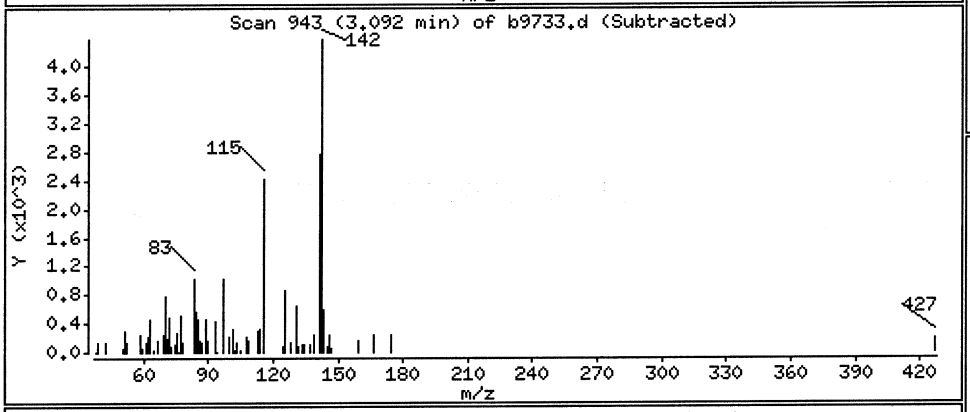
Sample Info: 20506170504*

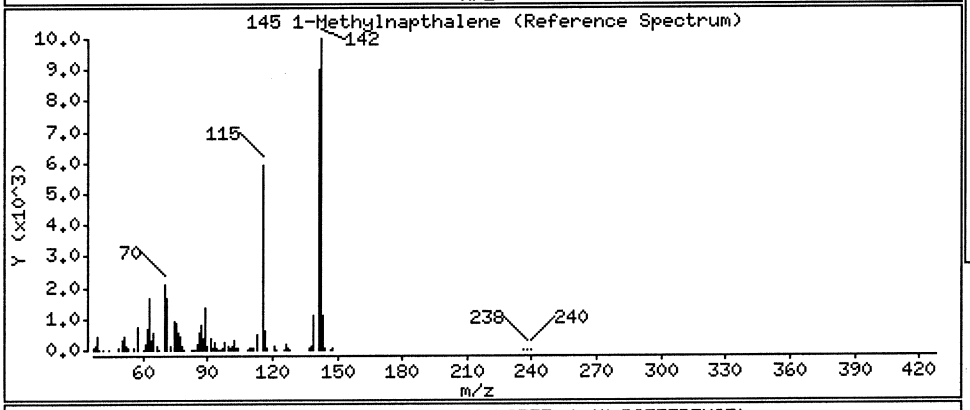
Volume Injected (uL): 1.0 Operator: jar3

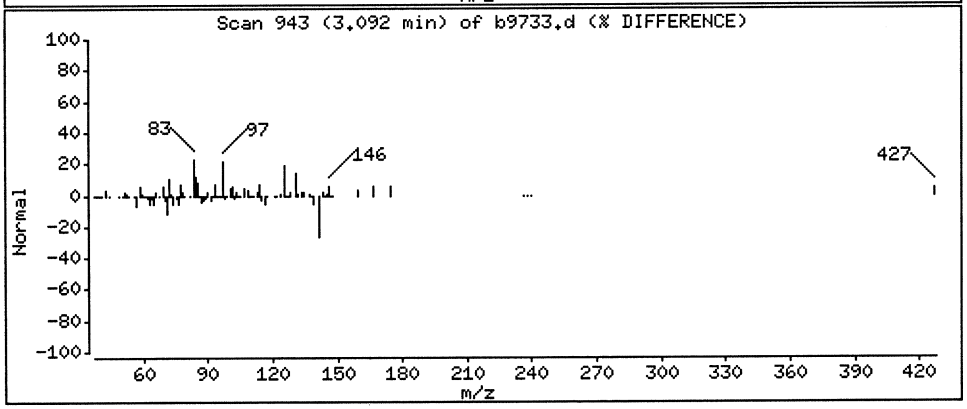
Column phase: RTX-5MS-30M Column diameter: 0.25

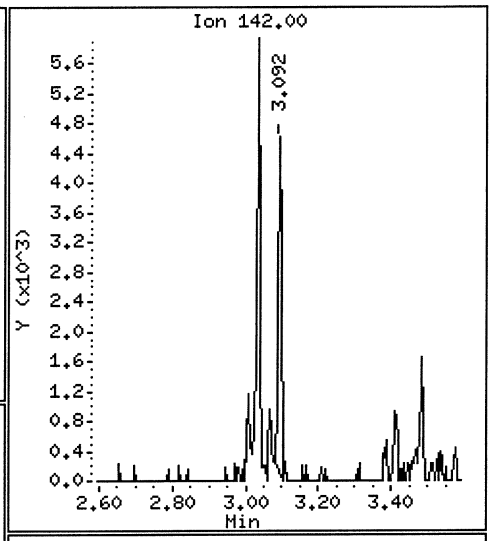
145 1-Methylnapthalene Concentration: 1.63 ug/L

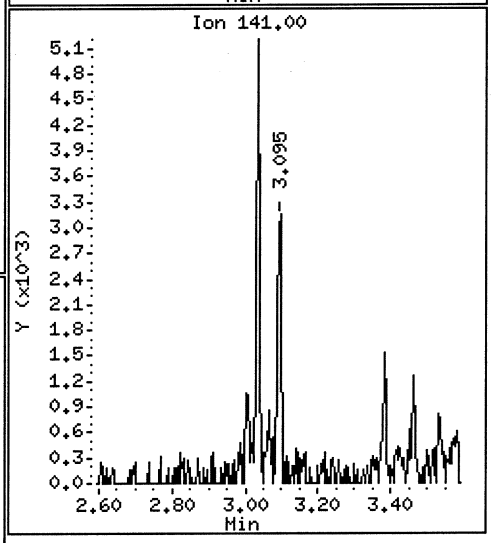












1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-CEF43-33N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170505
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1323
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L
Lab File ID: 050628/H0000721

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000721.d
Lab Smp Id: 20506170505 Client Smp ID: 20506170505
Inj Date : 28-JUN-2005 13:23
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170505
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
$ 11 p-Terphenyl	3.210	3.307	-0.097	13741	1.69069	1.69(M)

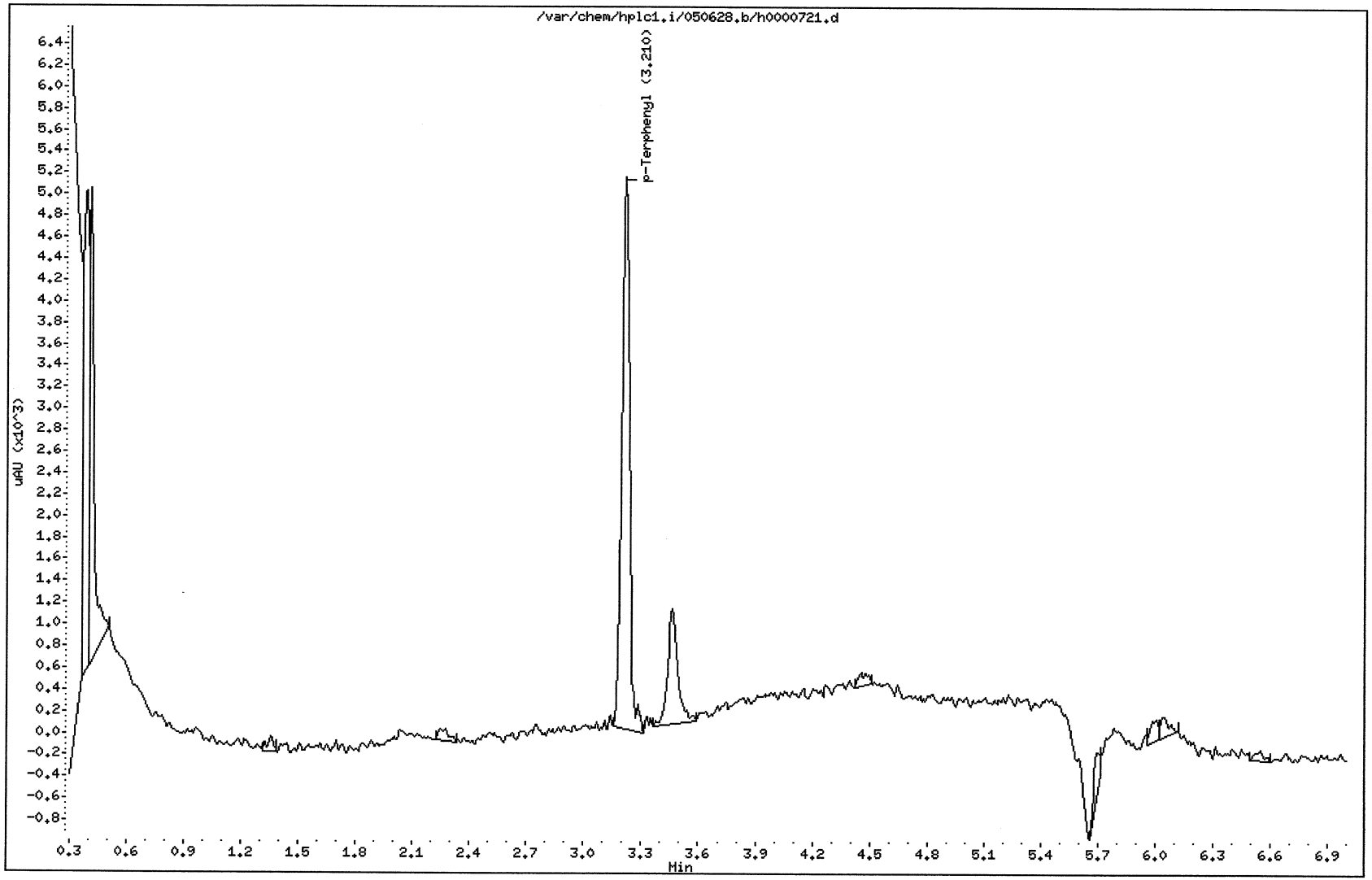
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000721.d
Date : 28-JUN-2005 13:23
Client ID: 20506170505
Sample Info: 20506170505
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-CEF43-38N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170506
Date Collected: 06/16/05 Time: 1525
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1331
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050628/H0000722

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000722.d
Lab Smp Id: 20506170506 Client Smp ID: 20506170506
Inj Date : 28-JUN-2005 13:31
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170506
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 11 p-Terphenyl	3.217	3.307	-0.090	13537	1.66557	1.67(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000722.d

Date : 28-JUN-2005 13:31

Client ID: 20506170506

Sample Info: 20506170506

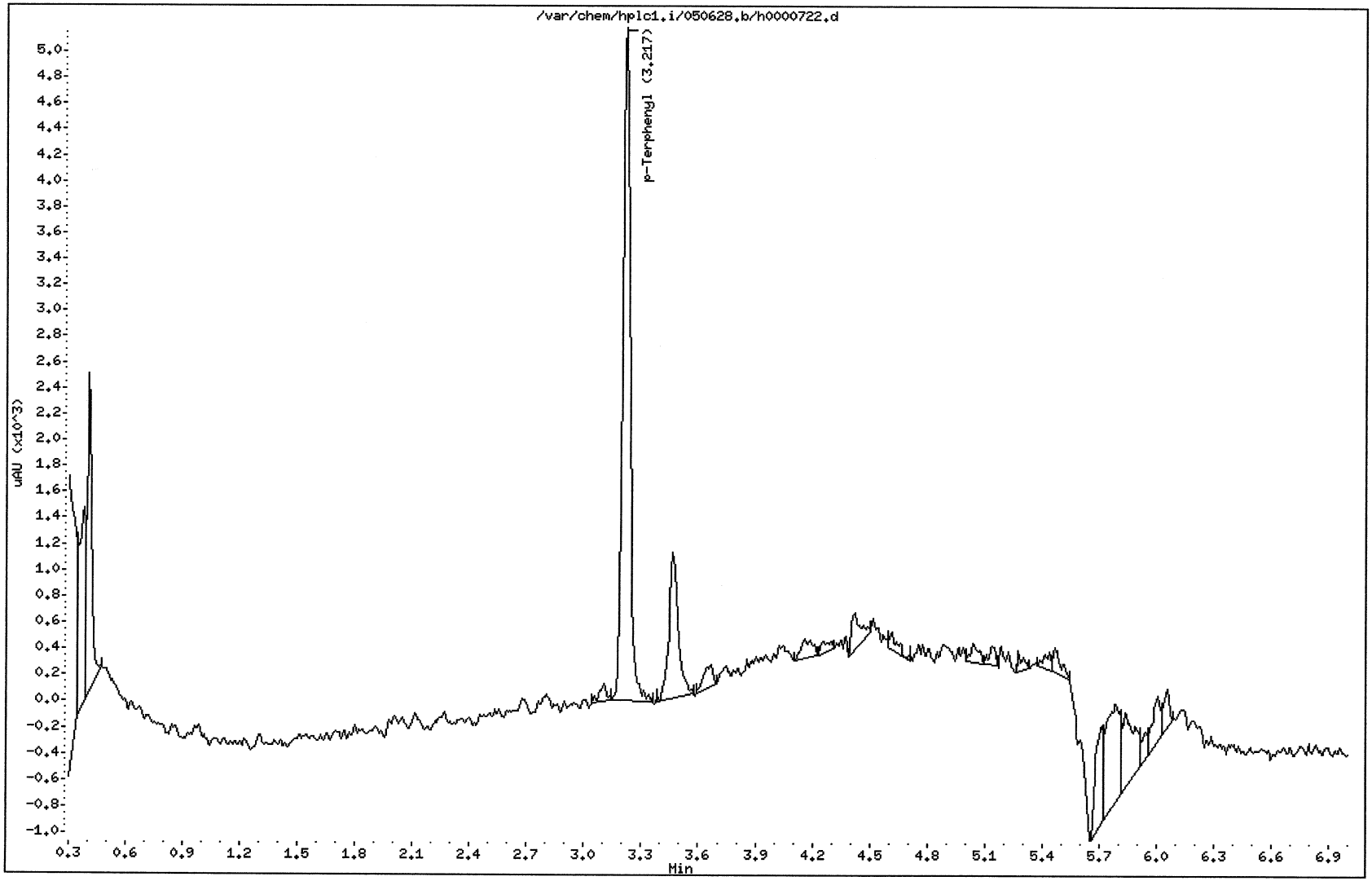
Volume Injected (uL): 10.0

Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar

Column diameter: 2.10



000226

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-DUP-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170509
Date Collected: Time:
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1355
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050628/H0000725

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	3.49		0.291	1.00
91-57-6	2-Methylnaphthalene	2.14		0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	1.35		0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000725.d
Lab Smp Id: 20506170509 Client Smp ID: 20506170509
Inj Date : 28-JUN-2005 13:55
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170509
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.191	1.207	-0.016	3415	1.35340	1.35
3 1-Methynaphthalene	1.584	1.580	0.004	5544	3.49121	3.49
4 2-Methylnaphthalene	1.664	1.673	-0.009	4658	2.13713	2.14
$ 11 p-Terphenyl	3.217	3.307	-0.090	13290	1.63520	1.64(M)

QC Flag Legend

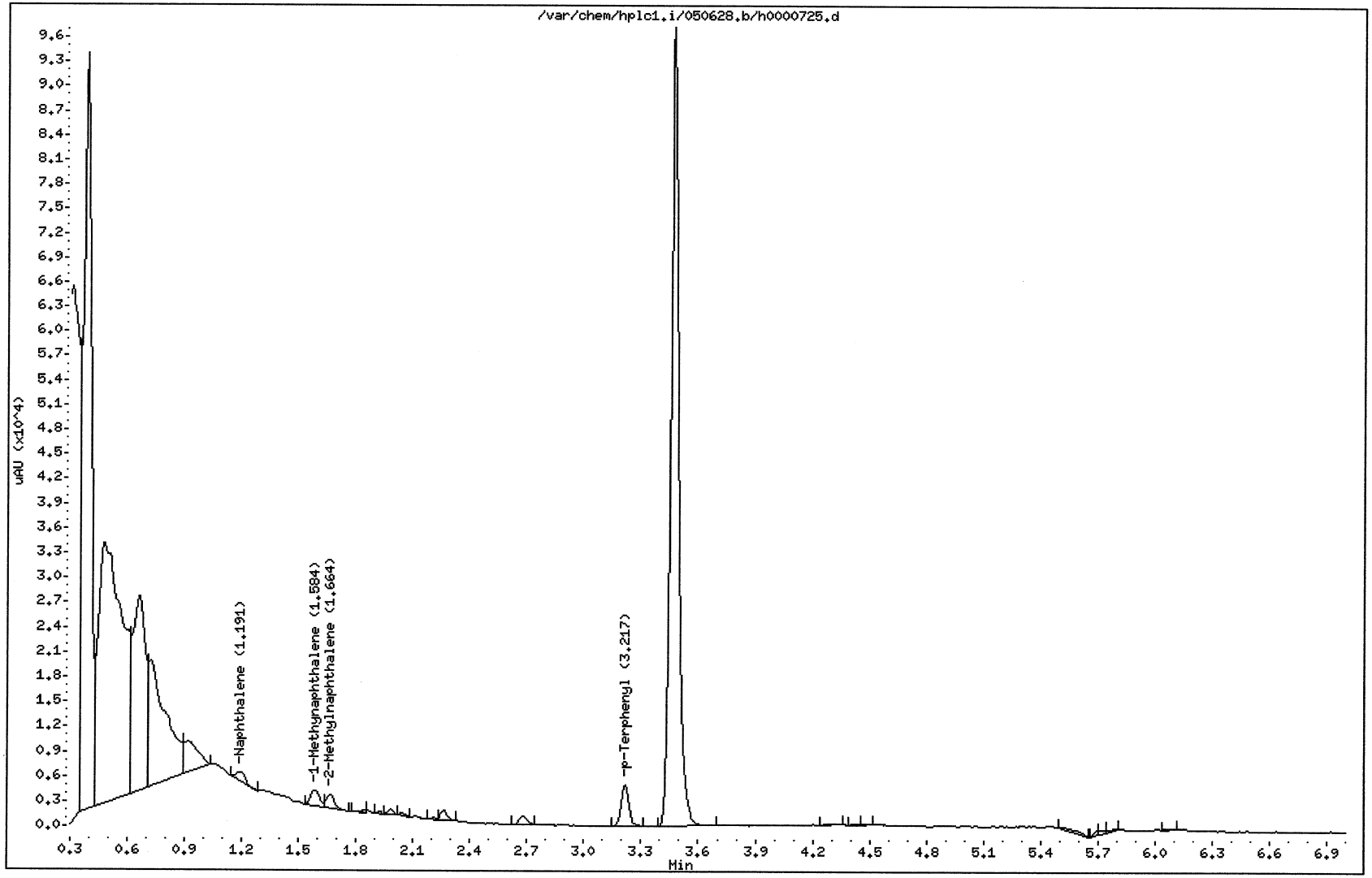
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000725.d
Date : 28-JUN-2005 13:55
Client ID: 20506170509
Sample Info: 20506170509
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Page 1

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050630.s.b/b9734.d
Lab Smp Id: 20506170509 Client Smp ID: 20506170509
Inj Date : 30-JUN-2005 11:09
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 20506170509*
Misc Info : 20506170509*MSSV~2718~*061705*
Comment :
Method : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Meth Date : 01-Jul-2005 11:03 rlw Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
$ 4 Phenol-d5	99	1.840	1.605	(1.033)	3224	0.96381	0.964(aR)
* 10 1,4-Dichlorobenzene-d4	152	1.783	1.786	(1.000)	46579	40.0000	
$ 19 Nitrobenzene-d5	82	2.260	2.158	(0.870)	8146	3.29700	3.30(aR)
* 28 Naphthalene-d8	136	2.598	2.598	(1.000)	87363	40.0000	
* 44 Acenaphthene-d10	164	3.668	3.671	(1.000)	62363	40.0000	
* 61 Phenanthrene-d10	188	4.576	4.576	(1.000)	100346	40.0000	
$ 70 Terphenyl-d14	244	5.592	5.595	(0.879)	3740	1.91964	1.92(aR)
* 74 Chrysene-d12	240	6.359	6.365	(1.000)	97468	40.0000	
* 81 Perylene-d12	264	7.477	7.480	(1.000)	110024	40.0000	
29 Naphthalene	128	2.612	2.612	(1.005)	3479	1.40445	1.40(aM)
33 2-Methylnaphthalene	142	3.035	3.035	(1.168)	2810	1.74582	1.75(a)
145 1-Methylnapthalene	142	3.095	3.095	(1.191)	1743	1.20993	1.21(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV3.i/2050630.s.b/b9734.d

Date : 30-JUN-2005 11:09

Client ID: 20506170509

Instrument: MSSV3.i

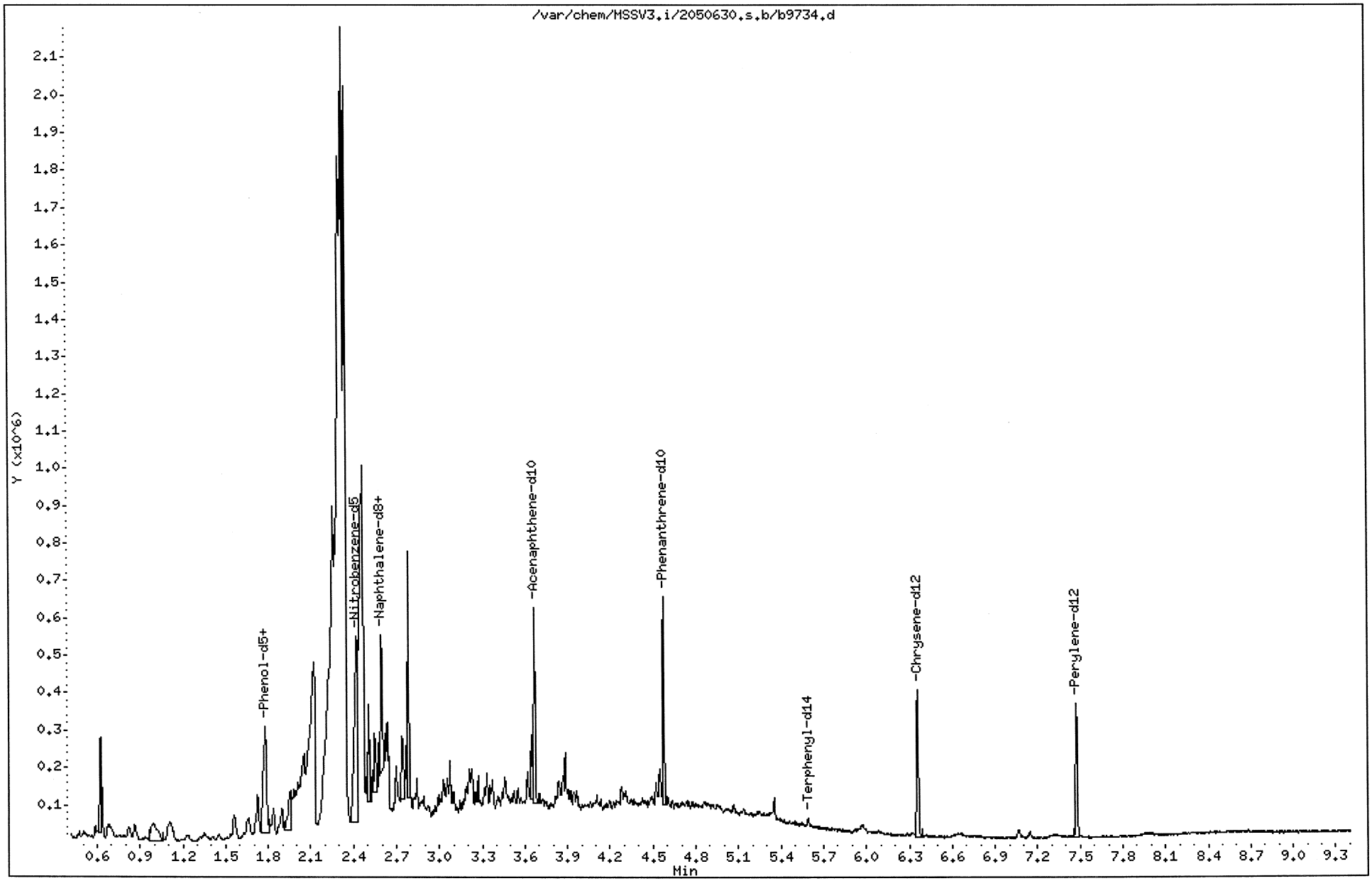
Sample Info: 20506170509*

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 0.25



Data File: /var/chem/MSSV3.i/2050630.s.b/b9734.d

Date : 30-JUN-2005 11:09

Client ID: 20506170509

Instrument: MSSV3.i

Sample Info: 20506170509*

Volume Injected (uL): 1.0

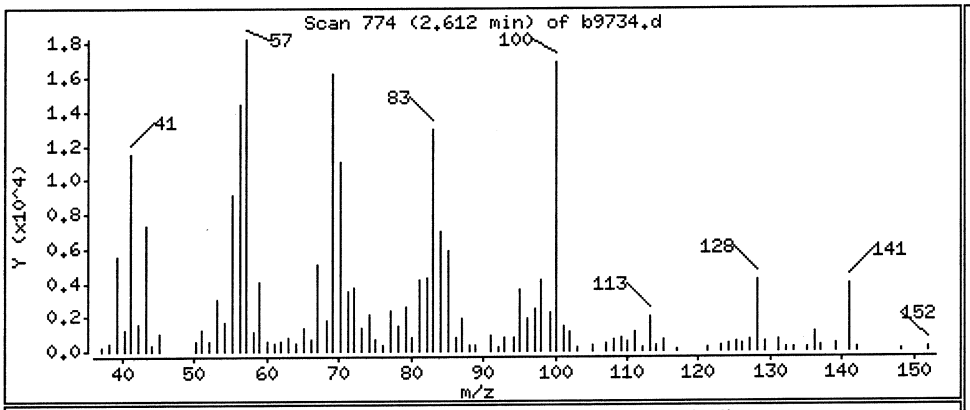
Operator: jar3

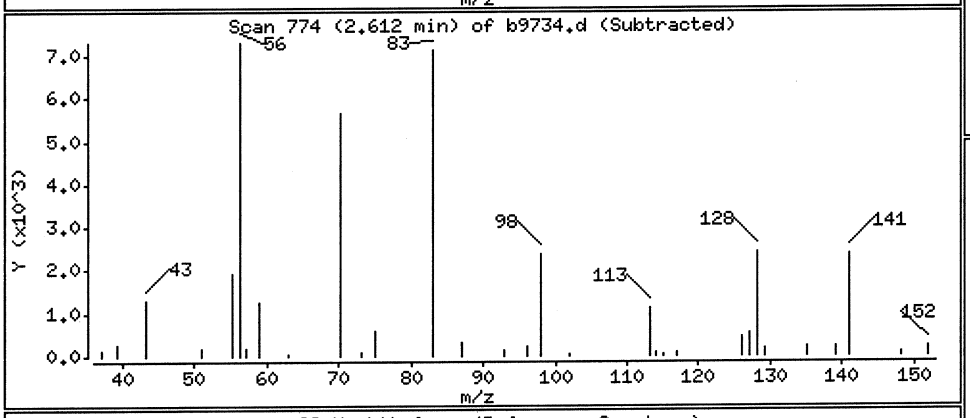
Column phase: RTX-5MS-30M

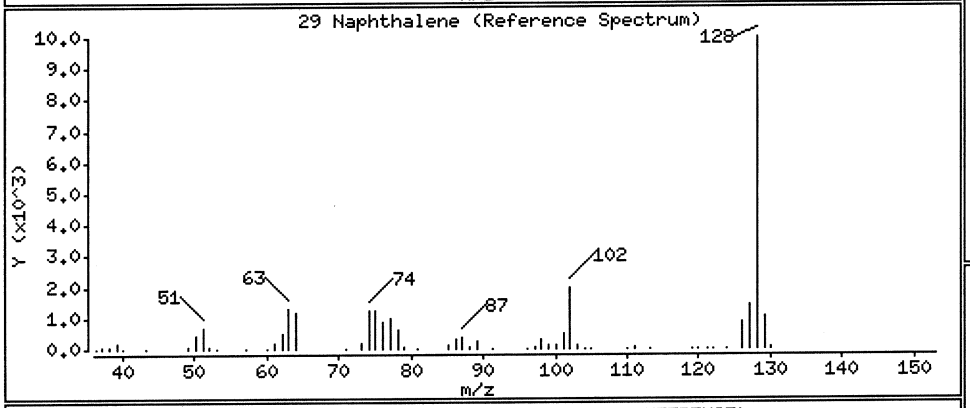
Column diameter: 0.25

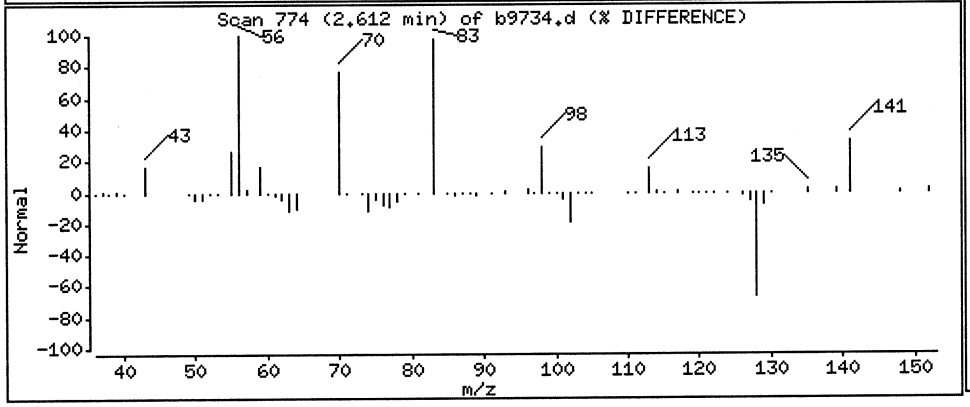
29 Naphthalene

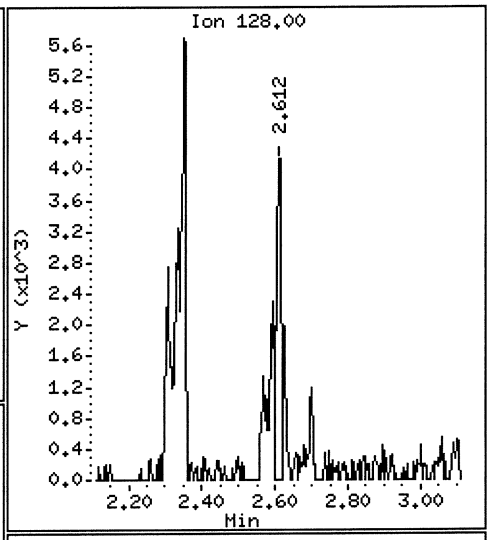
Concentration: 1.40 ug/L

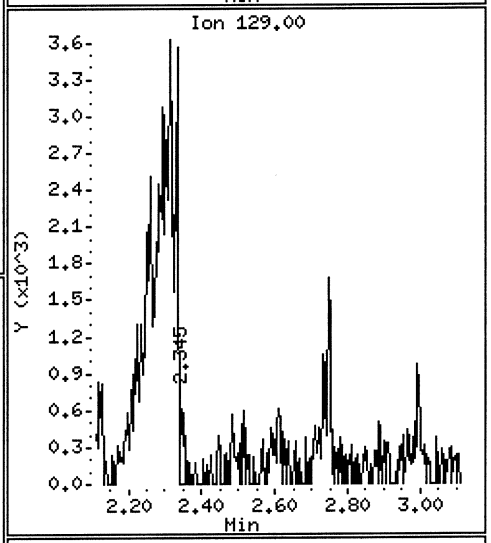


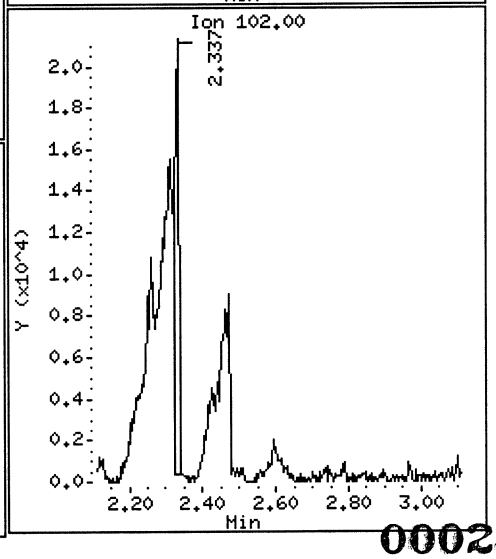












Data File: /var/chem/MSSV3.i/2050630.s.b/b9734.d

Date : 30-JUN-2005 11:09

Client ID: 20506170509

Instrument: MSSV3.i

Sample Info: 20506170509*

Volume Injected (uL): 1.0

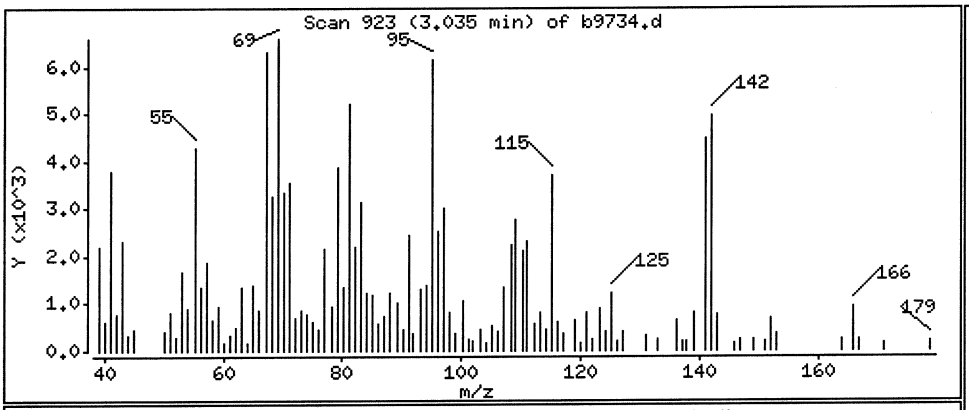
Operator: jar3

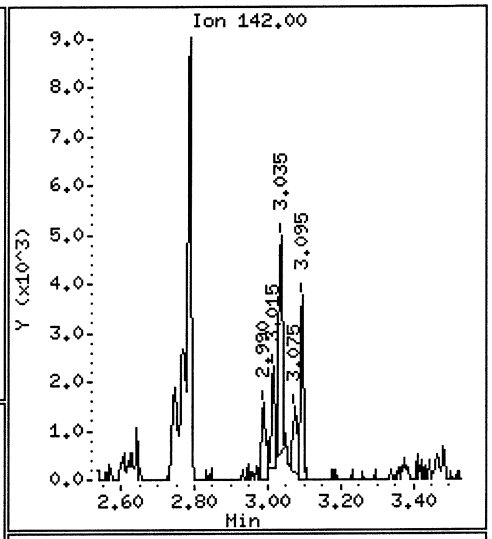
Column phase: RTX-5MS-30M

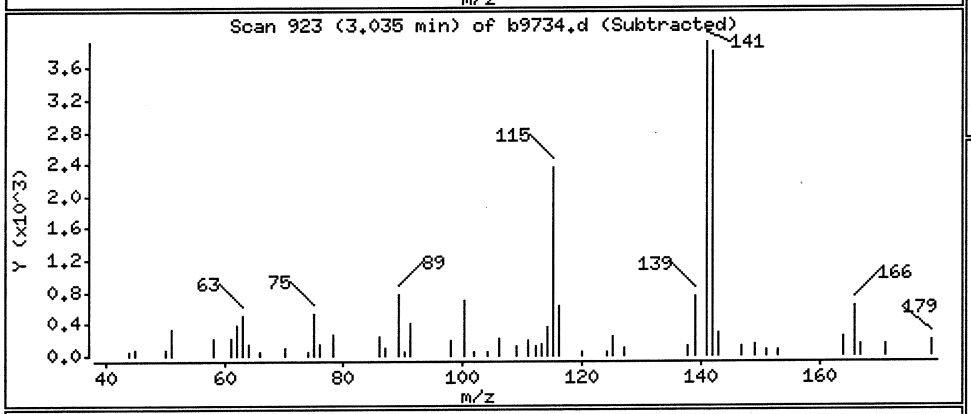
Column diameter: 0.25

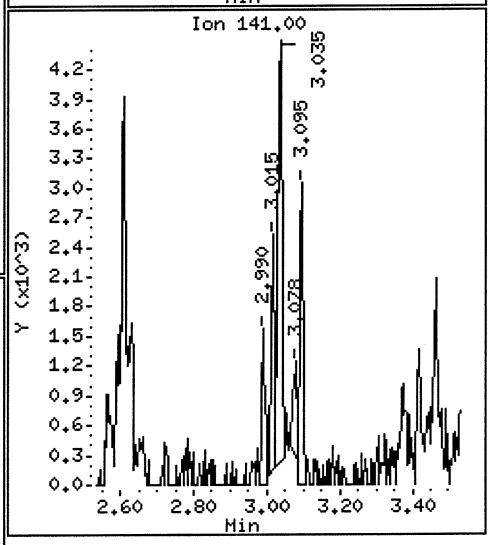
33 2-Methylnaphthalene

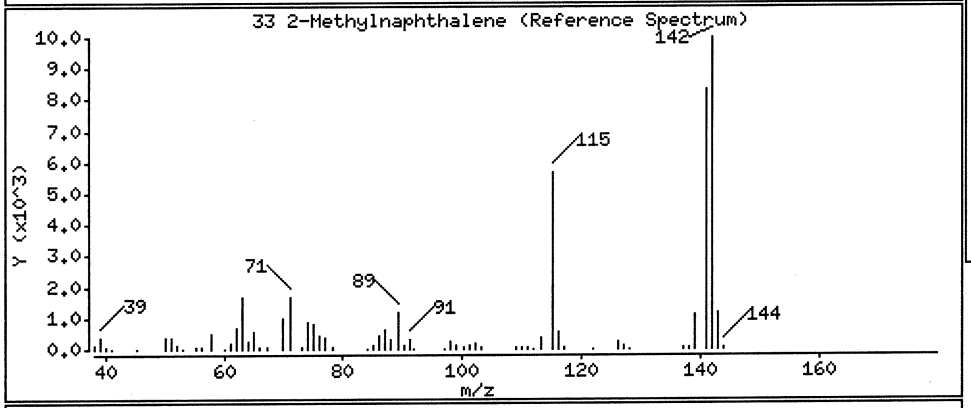
Concentration: 1.75 ug/L

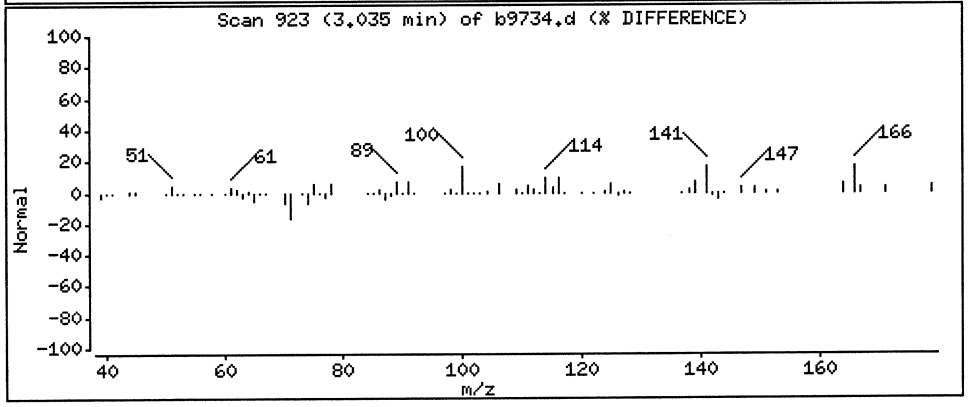












Data File: /var/chem/MSSV3.i/2050630.s.b/b9734.d

Date : 30-JUN-2005 11:09

Client ID: 20506170509

Instrument: MSSV3.i

Sample Info: 20506170509*

Volume Injected (uL): 1.0

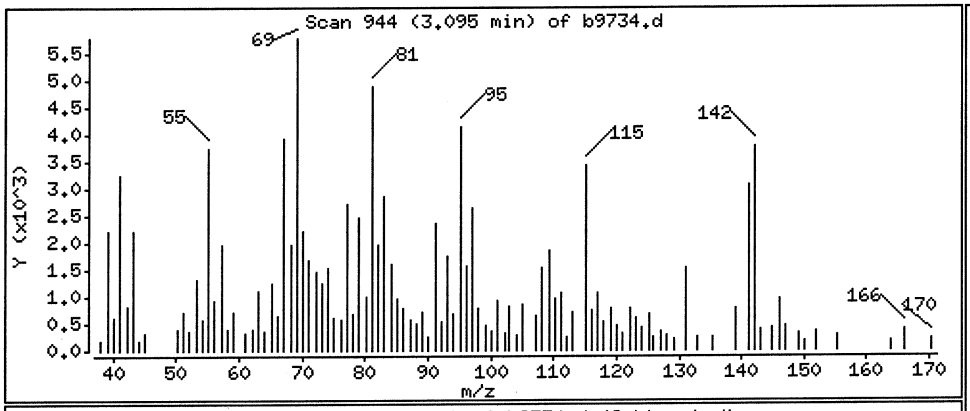
Operator: jar3

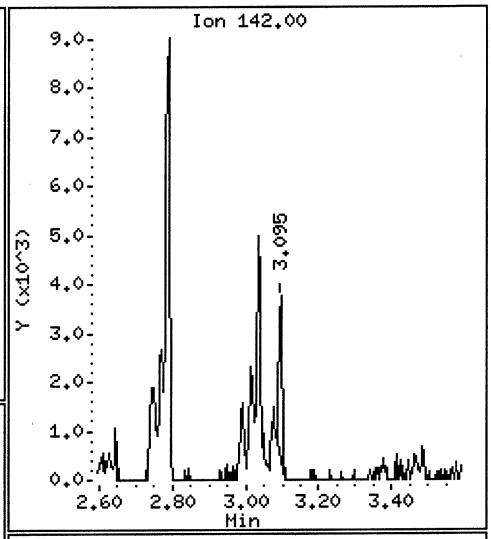
Column phase: RTX-5MS-30M

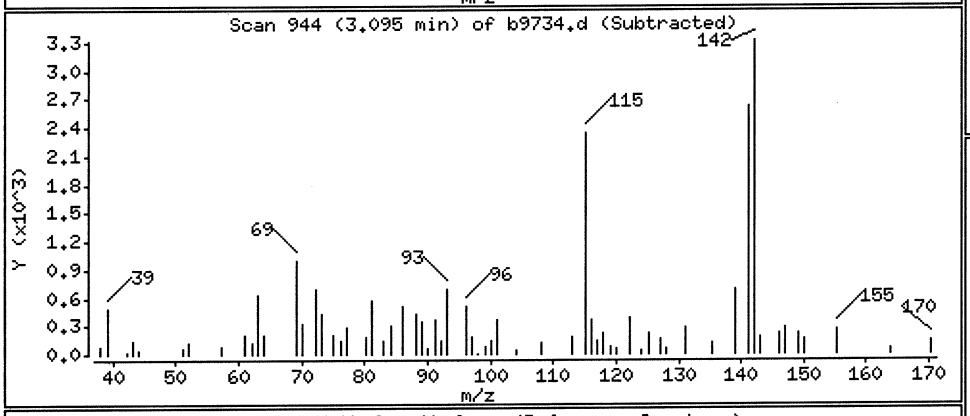
Column diameter: 0.25

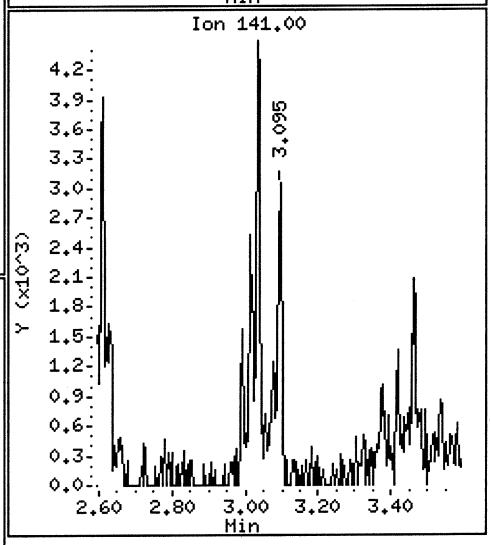
145 1-Methylnapthalene

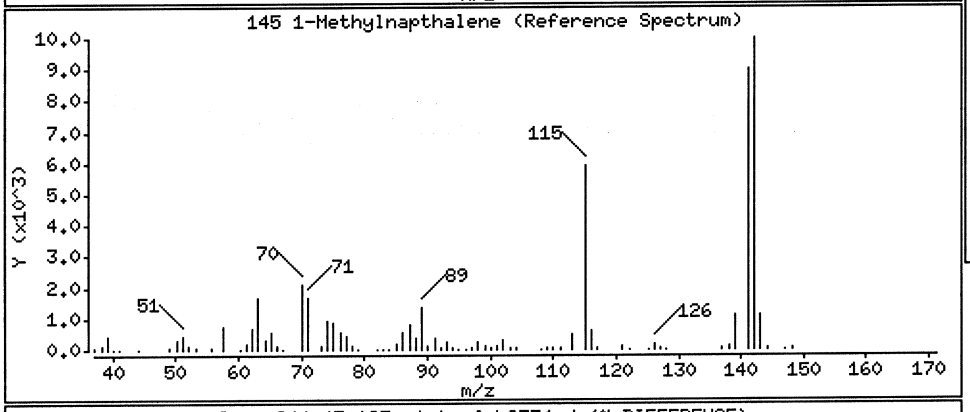
Concentration: 1.21 ug/L

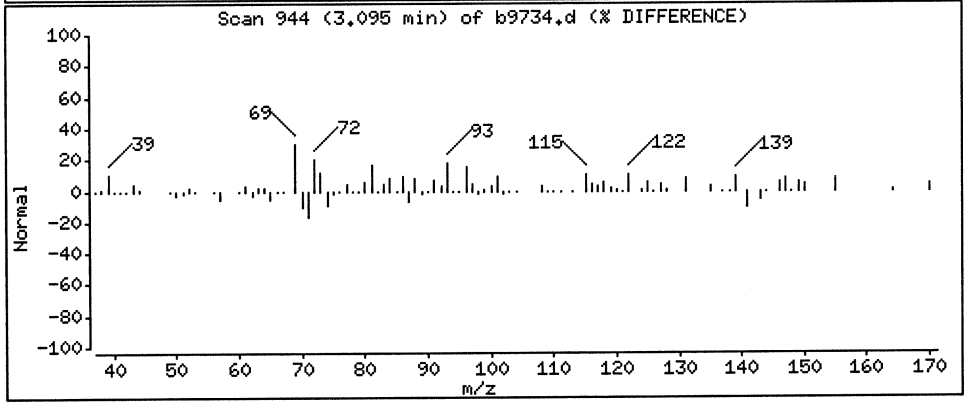












1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-EB-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170510
Date Collected: 06/16/05 Time: 1650
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1403
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L

Lab File ID: 050628/H0000726

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000726.d
Lab Smp Id: 20506170510 Client Smp ID: 20506170510
Inj Date : 28-JUN-2005 14:03
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170510
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
$ 11 p-Terphenyl	3.230	3.307	-0.077	12365	1.52139	1.52(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000726.d

Date : 28-JUN-2005 14:03

Client ID: 20506170510

Sample Info: 20506170510

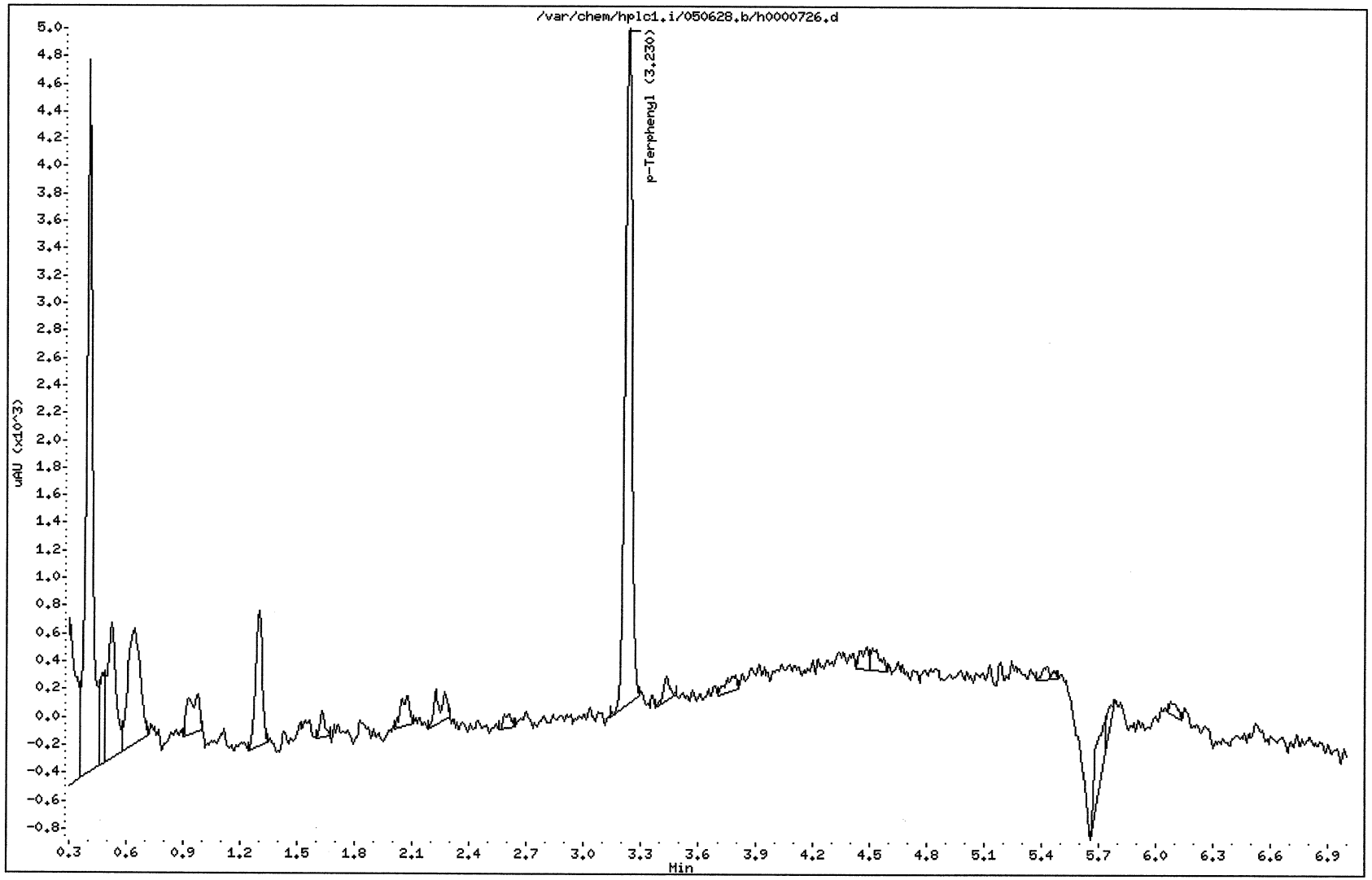
Volume Injected (uL): 10.0

Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar

Column diameter: 2.10



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2005 09:08
End Cal Date : 28-JUN-2005 10:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050628.b/flpnauv.m
Cal Date : 30-Jun-2005 13:27 rlw
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc1.i/050628.b/h0000705.d
Level 2: /var/chem/hplc1.i/050628.b/h0000706.d
Level 3: /var/chem/hplc1.i/050628.b/h0000707.d
Level 4: /var/chem/hplc1.i/050628.b/h0000708.d
Level 5: /var/chem/hplc1.i/050628.b/h0000709.d
Level 6: /var/chem/hplc1.i/050628.b/h0000710.d
Level 7: /var/chem/hplc1.i/050628.b/h0000711.d
Level 8: /var/chem/hplc1.i/050628.b/h0000712.d

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8						
1 Naphthalene	+++++	2368	2176	2564	2526	2747		
	2668	2615					2523	7.683
2 Acenaphthylene	+++++	+++++	+++++	1956	1795	1809		
	1780	1788					1826	4.037
3 1-Methynaphthalene	+++++	+++++	+++++	1804	1571	1532		
	1521	1512					1588	7.737
4 2-Methylnaphthalene	+++++	+++++	+++++	2417	2152	2069		
	2140	2120					2180	6.259
5 Acenaphthene	+++++	+++++	+++++	1220	1080	1040		
	985	975					1060	9.358
6 Fluorene	+++++	+++++	12318	12313	11532	11706		
	11446	11435					11792	3.538
7 Phenanthrene	27930	28236	26412	26698	25586	25616		
	25174	24984					26330	4.662

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2005 09:08
End Cal Date : 28-JUN-2005 10:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050628.b/flpnauv.m
Cal Date : 30-Jun-2005 13:27 rlw
Curve Type : Average

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8						
8 Anthracene	55160	53688	51836	51455	49213	48194		
	45982	42729					49782	8.255
9 Fluoranthene	7350	7964	7058	7183	6993	6875		
	6803	6744					7121	5.545
10 Pyrene	7370	5452	5352	6044	6081	6183		
	6156	6084					6090	10.017
12 Benzo(a)Anthracene	16870	18320	17804	17681	17274	17294		
	17091	17023					17420	2.771
13 Chrysene	30180	29208	29452	28441	28255	28289		
	28004	27825					28707	2.853
14 Benzo(b)Fluoranthene	21840	21596	19732	21154	20038	19899		
	19953	19740					20494	4.312
15 Benzo(k)Fluoranthene	13020	12888	14466	14450	12408	12158		
	12295	11928					12951	7.695
16 Benzo(a)Pyrene	24270	20492	18852	20039	18366	18471		
	18640	18238					19671	10.327
17 Dibenzo(a,h)Anthracene	5860	5968	5594	5025	5077	4811		
	4425	4337					5137	12.071
18 Benzo(g,h,i)Perylene	6400	6888	7368	7567	6792	8510		
	6947	6833					7163	9.095

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2005 09:08
End Cal Date : 28-JUN-2005 10:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050628.b/flpnauv.m
Cal Date : 30-Jun-2005 13:27 rlw
Curve Type : Average

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	___ RRF	% RSD
	10.000 Level 7	20.000 Level 8						
19 Indeno(1,2,3-c,d)Pyrene	+++++	15220	14464	14282	14593	15534		
	14202	13815					14587	4.103
$ 11 p-Terphenyl	+++++	9008	8428	8415	8118	7824		
	7545	7554					8128	6.565

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-JUN-2005 09:08
End Cal Date : 28-JUN-2005 10:03
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050628.b/flpnauv.m
Cal Date : 30-Jun-2005 13:27 rlw
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.67810058                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000705.d
Lab Smp Id: 8310-00.1 Client Smp ID: 8310-00.1
Inj Date : 28-JUN-2005 09:08
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-00.1
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:08 Cal File: h0000705.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.218	1.218	0.000	401	0.10000	0.159
2 Acenaphthylene	1.452	1.452	0.000	304	0.10000	0.167
6 Fluorene	1.865	1.865	0.000	1416	0.10000	0.120
7 Phenanthrene	2.118	2.118	0.000	2793	0.10000	0.106
8 Anthracene	2.372	2.372	0.000	5516	0.10000	0.111
9 Fluoranthene	2.625	2.625	0.000	735	0.10000	0.103
10 Pyrene	2.812	2.812	0.000	737	0.10000	0.121(M)
$ 11 p-Terphenyl	3.298	3.298	0.000	1011	0.10000	0.124
12 Benzo(a)Anthracene	3.485	3.485	0.000	1687	0.10000	0.0968
13 Chrysene	3.652	3.652	0.000	3018	0.10000	0.105
14 Benzo(b)Fluoranthene	4.158	4.158	0.000	2184	0.10000	0.107
15 Benzo(k)Fluoranthene	4.418	4.418	0.000	1302	0.10000	0.101(M)
16 Benzo(a)Pyrene	4.605	4.605	0.000	2427	0.10000	0.123

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.978	4.978	0.000	586	0.10000	0.114(M)
18 Benzo(g,h,i)Perylene	5.205	5.205	0.000	640	0.10000	0.0893(M)
19 Indeno(1,2,3-c,d)Pyrene	5.458	5.458	0.000	455	0.10000	0.0312(M)

QC Flag Legend

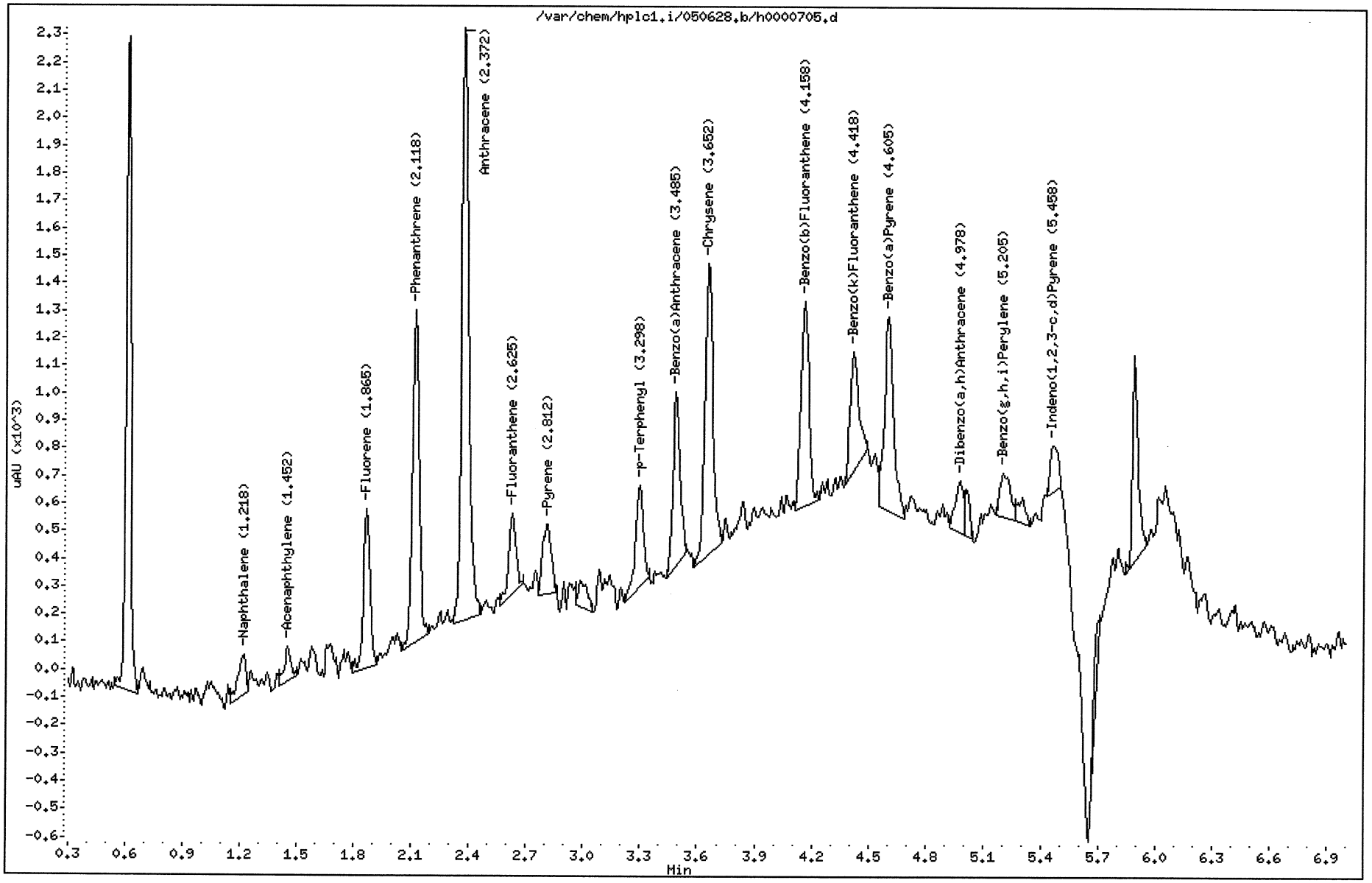
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000705.d
Date : 28-JUN-2005 09:08
Client ID: 8310-00.1
Sample Info: 8310-00.1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10

000245



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000706.d
Lab Smp Id: 8310-00.25 Client Smp ID: 8310-00.25
Inj Date : 28-JUN-2005 09:16
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-00.25
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:16 Cal File: h0000706.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.218	1.218	0.000	592	0.25000	0.235 (M)
2 Acenaphthylene	1.452	1.452	0.000	453	0.25000	0.248
5 Acenaphthene	1.745	1.745	0.000	503	0.25000	0.475
6 Fluorene	1.872	1.872	0.000	3122	0.25000	0.265
7 Phenanthrene	2.125	2.125	0.000	7059	0.25000	0.268
8 Anthracene	2.378	2.378	0.000	13422	0.25000	0.270
9 Fluoranthene	2.632	2.632	0.000	1991	0.25000	0.280
10 Pyrene	2.818	2.818	0.000	1363	0.25000	0.224 (M)
$ 11 p-Terphenyl	3.312	3.312	0.000	2252	0.25000	0.277
12 Benzo(a)Anthracene	3.505	3.505	0.000	4580	0.25000	0.263
13 Chrysene	3.672	3.672	0.000	7302	0.25000	0.254
14 Benzo(b)Fluoranthene	4.185	4.185	0.000	5399	0.25000	0.263
15 Benzo(k)Fluoranthene	4.445	4.445	0.000	3222	0.25000	0.249 (M)

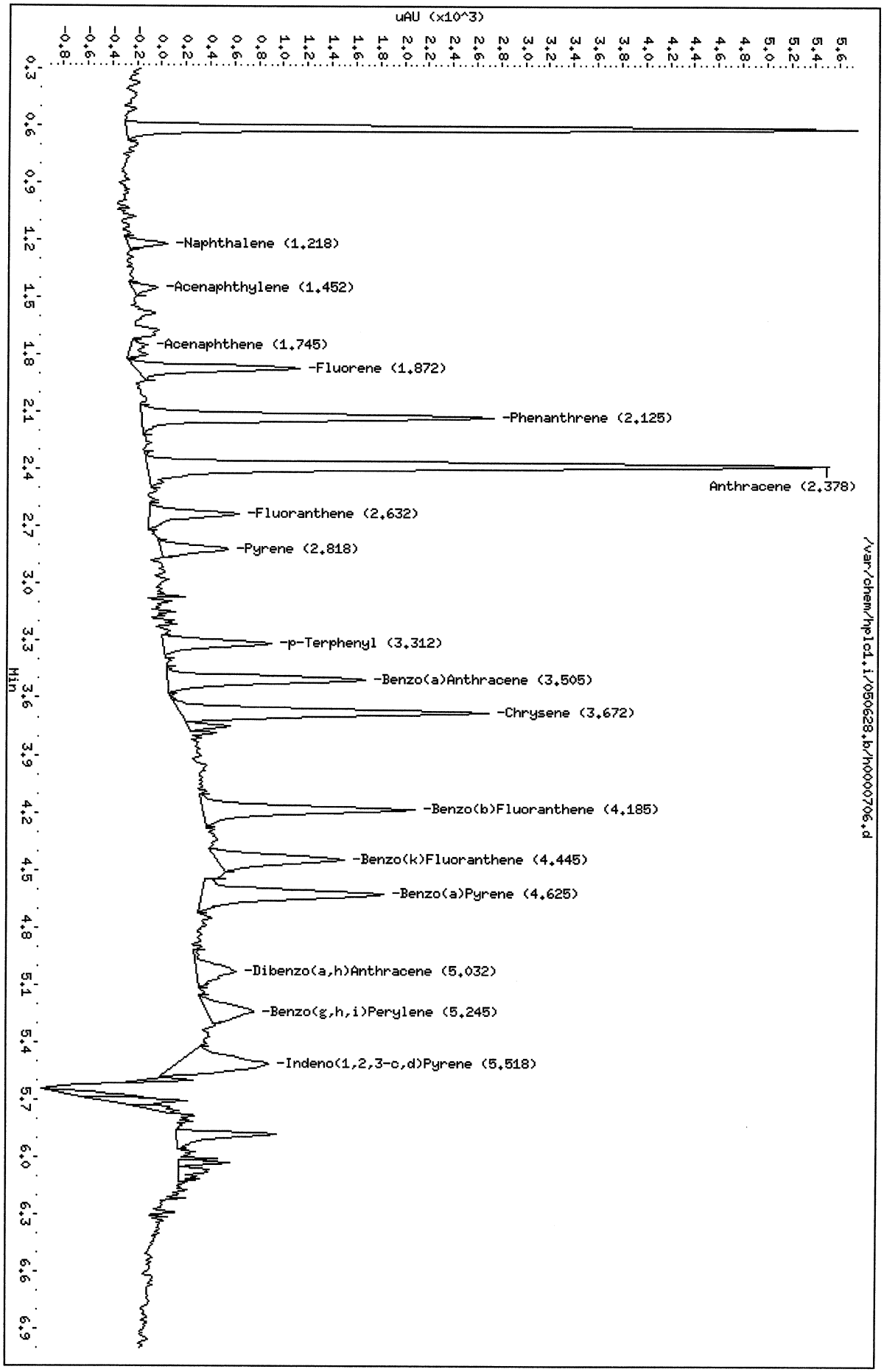
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.625	4.625	0.000	5123	0.25000	0.260
17 Dibenzo(a,h)Anthracene	5.032	5.032	0.000	1492	0.25000	0.290
18 Benzo(g,h,i)Perylene	5.245	5.245	0.000	1722	0.25000	0.240
19 Indeno(1,2,3-c,d)Pyrene	5.518	5.518	0.000	3805	0.25000	0.261 (M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000706.d
Date : 28-JUN-2005 09:16
Client ID: 8310-00.25
Sample Info: 8310-00.25
Volume Injected (uL): 10.0
Column phase: 20%TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000707.d
Lab Smp Id: 8310-00.5 Client Smp ID: 8310-00.5
Inj Date : 28-JUN-2005 09:24
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-00.5
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:24 Cal File: h0000707.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.215	1.215	0.000	1088	0.50000	0.431
2 Acenaphthylene	1.455	1.455	0.000	1169	0.50000	0.640
3 1-Methynaphthalene	1.588	1.588	0.000	888	0.50000	0.559
4 2-Methylnaphthalene	1.675	1.675	0.000	1223	0.50000	0.561
5 Acenaphthene	1.748	1.748	0.000	544	0.50000	0.513
6 Fluorene	1.868	1.868	0.000	6159	0.50000	0.522
7 Phenanthrene	2.128	2.128	0.000	13206	0.50000	0.502
8 Anthracene	2.382	2.382	0.000	25918	0.50000	0.521
9 Fluoranthene	2.635	2.635	0.000	3529	0.50000	0.496
10 Pyrene	2.815	2.815	0.000	2676	0.50000	0.439(M)
$ 11 p-Terphenyl	3.308	3.308	0.000	4214	0.50000	0.518
12 Benzo(a)Anthracene	3.502	3.502	0.000	8902	0.50000	0.511
13 Chrysene	3.668	3.668	0.000	14726	0.50000	0.513

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.175	4.175	0.000	9866	0.50000	0.481
15 Benzo(k)Fluoranthene	4.435	4.435	0.000	7233	0.50000	0.558
16 Benzo(a)Pyrene	4.622	4.622	0.000	9426	0.50000	0.479
17 Dibenzo(a,h)Anthracene	5.015	5.015	0.000	2797	0.50000	0.544
18 Benzo(g,h,i)Perylene	5.222	5.222	0.000	3684	0.50000	0.514
19 Indeno(1,2,3-c,d)Pyrene	5.495	5.495	0.000	7232	0.50000	0.496(M)

QC Flag Legend

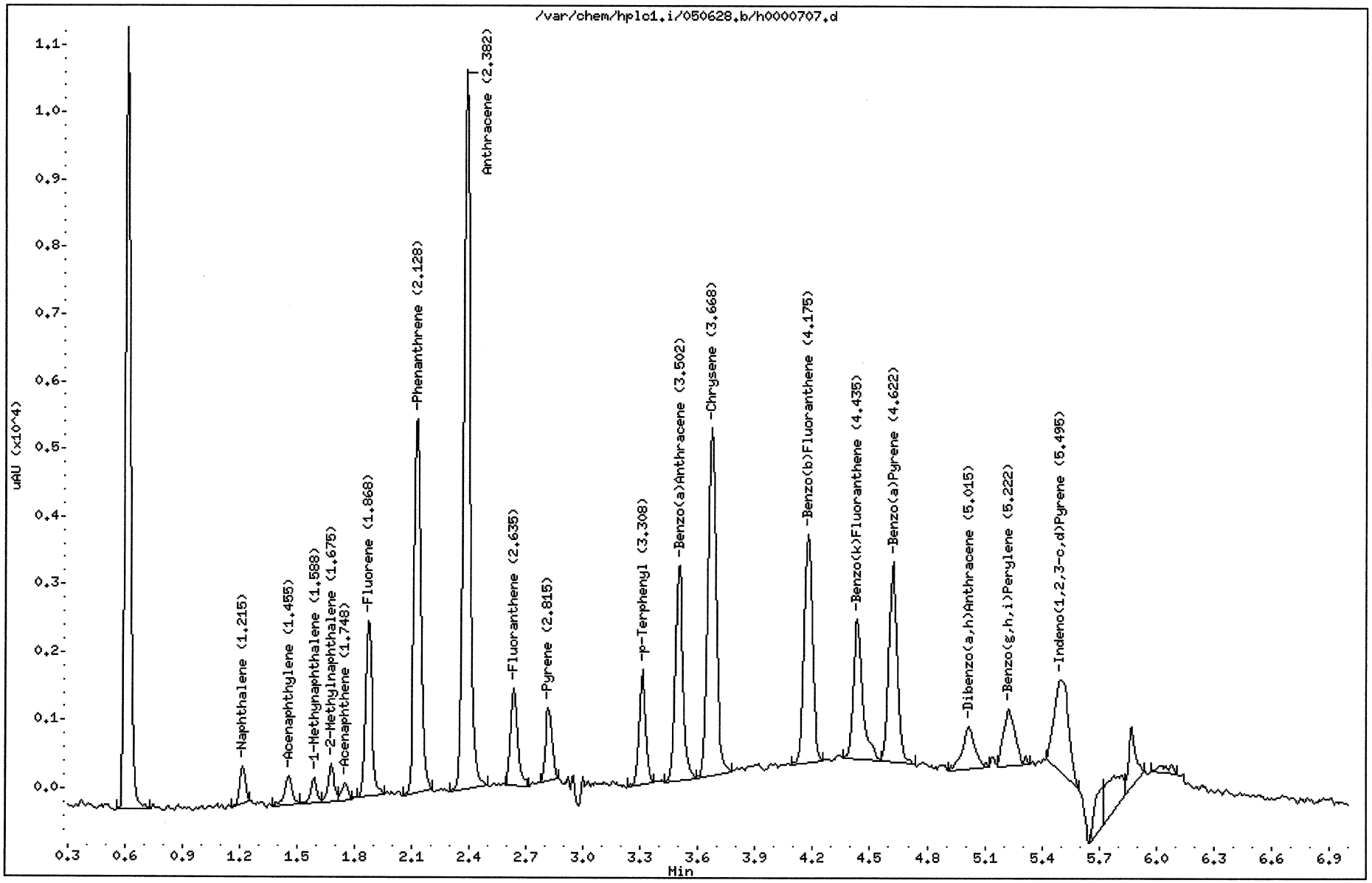
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000707.d
Date : 28-JUN-2005 09:24
Client ID: 8310-00.5
Sample Info: 8310-00.5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10

000251



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000708.d
Lab Smp Id: 8310-01.0 Client Smp ID: 8310-01.0
Inj Date : 28-JUN-2005 09:32
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-01.0
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:32 Cal File: h0000708.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.210	1.210	0.000	2564	1.00000	1.02
2 Acenaphthylene	1.450	1.450	0.000	1956	1.00000	1.07
3 1-Methynaphthalene	1.583	1.583	0.000	1804	1.00000	1.14
4 2-Methylnaphthalene	1.677	1.677	0.000	2417	1.00000	1.11
5 Acenaphthene	1.750	1.750	0.000	1220	1.00000	1.15
6 Fluorene	1.870	1.870	0.000	12313	1.00000	1.04
7 Phenanthrene	2.123	2.123	0.000	26698	1.00000	1.01
8 Anthracene	2.383	2.383	0.000	51455	1.00000	1.03
9 Fluoranthene	2.637	2.637	0.000	7183	1.00000	1.01
10 Pyrene	2.817	2.817	0.000	6044	1.00000	0.992
$ 11 p-Terphenyl	3.310	3.310	0.000	8415	1.00000	1.04
12 Benzo(a)Anthracene	3.503	3.503	0.000	17681	1.00000	1.02
13 Chrysene	3.677	3.677	0.000	28441	1.00000	0.991

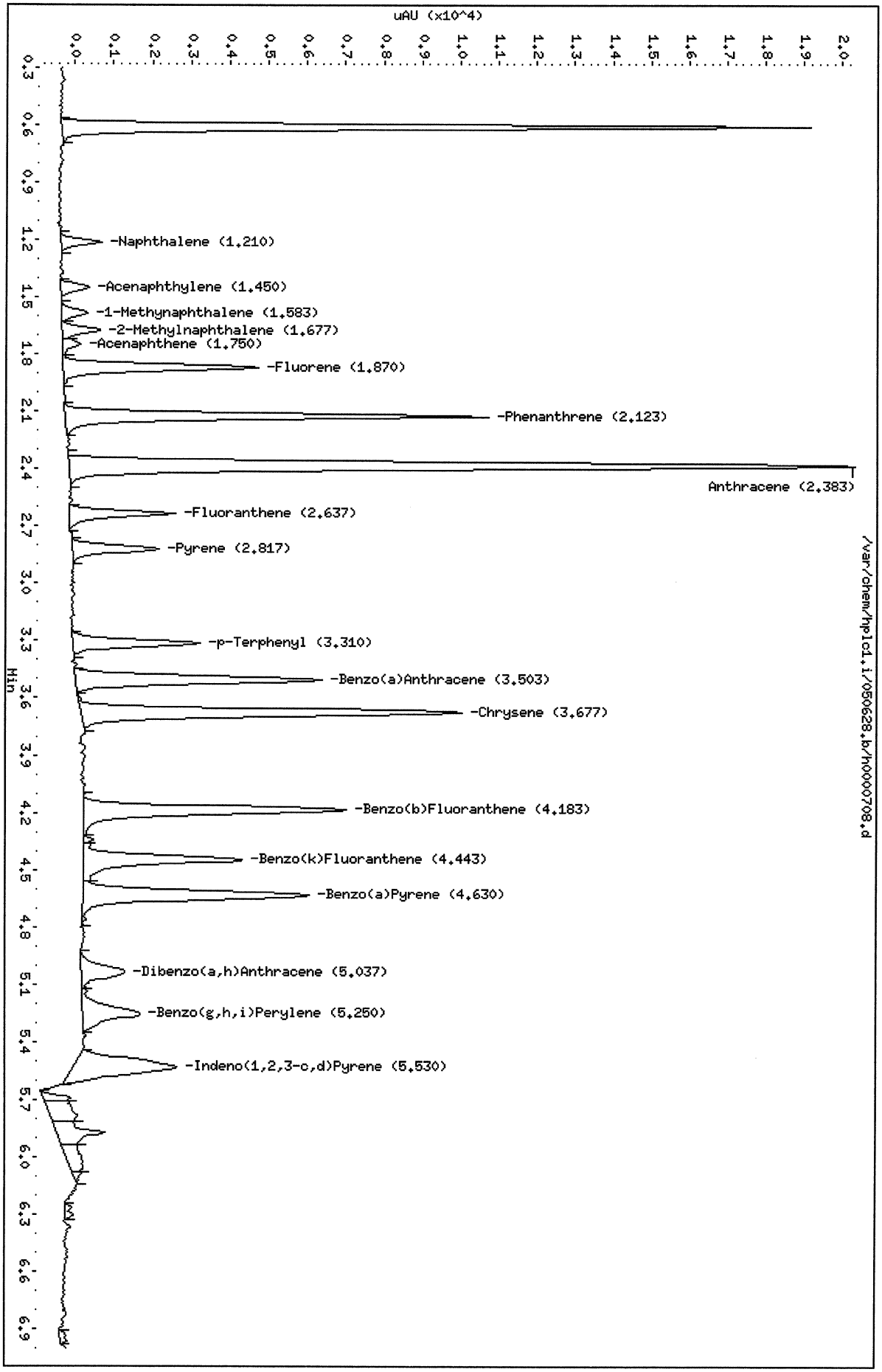
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.183	4.183	0.000	21154	1.00000	1.03
15 Benzo(k)Fluoranthene	4.443	4.443	0.000	14450	1.00000	1.12
16 Benzo(a)Pyrene	4.630	4.630	0.000	20039	1.00000	1.02
17 Dibenzo(a,h)Anthracene	5.037	5.037	0.000	5025	1.00000	0.978
18 Benzo(g,h,i)Perylene	5.250	5.250	0.000	7567	1.00000	1.06
19 Indeno(1,2,3-c,d)Pyrene	5.530	5.530	0.000	14282	1.00000	0.979(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000708.d
Date : 28-JUN-2005 09:32
Client ID: 8310-01.0
Sample Info: 8310-01.0
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000709.d
Lab Smp Id: 8310-02.5 Client Smp ID: 8310-02.5
Inj Date : 28-JUN-2005 09:40
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-02.5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:40 Cal File: h0000709.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.214	1.214	0.000	6315	2.50000	2.50
2 Acenaphthylene	1.454	1.454	0.000	4488	2.50000	2.46
3 1-Methynaphthalene	1.581	1.581	0.000	3928	2.50000	2.47
4 2-Methylnaphthalene	1.674	1.674	0.000	5379	2.50000	2.47
5 Acenaphthene	1.748	1.748	0.000	2700	2.50000	2.55
6 Fluorene	1.867	1.867	0.000	28830	2.50000	2.44
7 Phenanthrene	2.127	2.127	0.000	63966	2.50000	2.43
8 Anthracene	2.381	2.381	0.000	123033	2.50000	2.47
9 Fluoranthene	2.634	2.634	0.000	17483	2.50000	2.46
10 Pyrene	2.821	2.821	0.000	15202	2.50000	2.50
$ 11 p-Terphenyl	3.314	3.314	0.000	20296	2.50000	2.50
12 Benzo(a)Anthracene	3.507	3.507	0.000	43186	2.50000	2.48
13 Chrysene	3.674	3.674	0.000	70638	2.50000	2.46

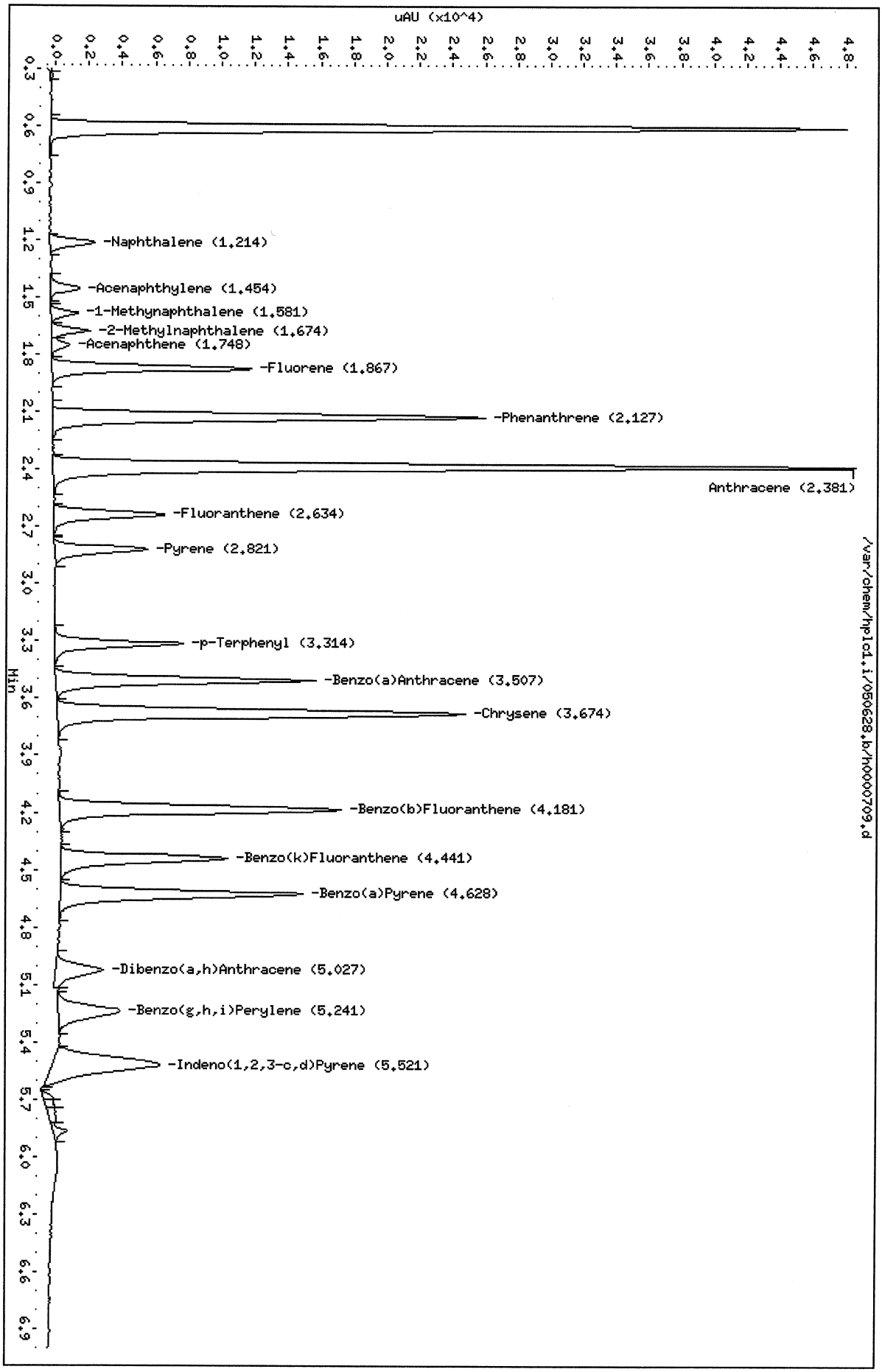
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.181	4.181	0.000	50095	2.50000	2.44
15 Benzo(k)Fluoranthene	4.441	4.441	0.000	31019	2.50000	2.40
16 Benzo(a)Pyrene	4.628	4.628	0.000	45916	2.50000	2.33
17 Dibenzo(a,h)Anthracene	5.027	5.027	0.000	12692	2.50000	2.47
18 Benzo(g,h,i)Perylene	5.241	5.241	0.000	16981	2.50000	2.37(M)
19 Indeno(1,2,3-c,d)Pyrene	5.521	5.521	0.000	36482	2.50000	2.50(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000709.d
Date : 28-JUN-2005 09:40
Client ID: 8310-02.5
Sample Info: 8310-02.5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000710.d
Lab Smp Id: 8310-05.0 Client Smp ID: 8310-05.0
Inj Date : 28-JUN-2005 09:47
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-05.0
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:47 Cal File: h0000710.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

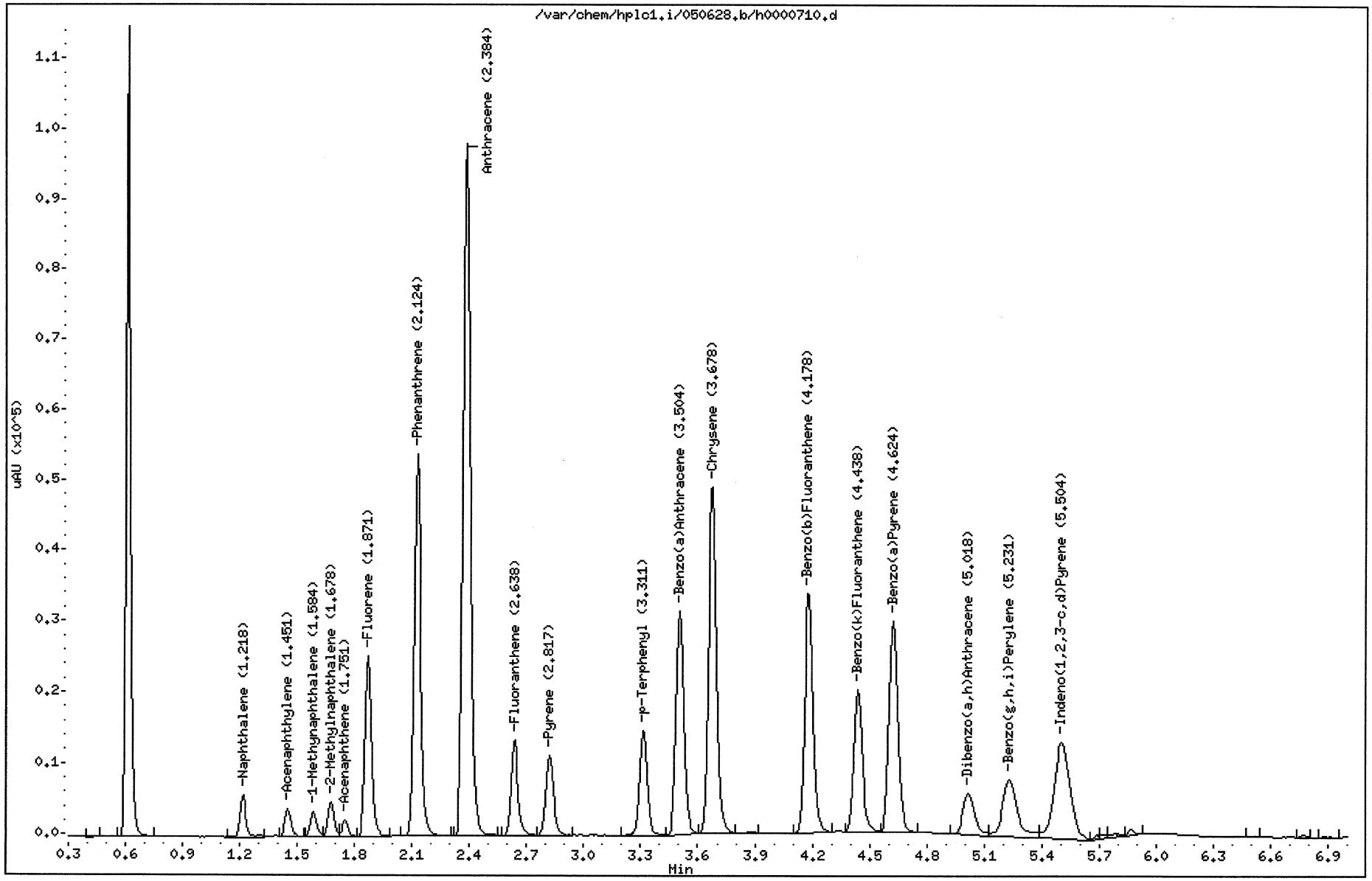
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.218	1.218	0.000	13734	5.00000	5.44
2 Acenaphthylene	1.451	1.451	0.000	9044	5.00000	4.95
3 1-Methynaphthalene	1.584	1.584	0.000	7661	5.00000	4.82
4 2-Methylnaphthalene	1.678	1.678	0.000	10346	5.00000	4.75
5 Acenaphthene	1.751	1.751	0.000	5198	5.00000	4.90
6 Fluorene	1.871	1.871	0.000	58532	5.00000	4.96
7 Phenanthrene	2.124	2.124	0.000	128081	5.00000	4.86
8 Anthracene	2.384	2.384	0.000	240969	5.00000	4.84
9 Fluoranthene	2.638	2.638	0.000	34375	5.00000	4.83
10 Pyrene	2.817	2.817	0.000	30915	5.00000	5.08
$ 11 p-Terphenyl	3.311	3.311	0.000	39120	5.00000	4.81
12 Benzo(a)Anthracene	3.504	3.504	0.000	86471	5.00000	4.96
13 Chrysene	3.678	3.678	0.000	141447	5.00000	4.93

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.178	4.178	0.000	99495	5.00000	4.85
15 Benzo(k)Fluoranthene	4.438	4.438	0.000	60789	5.00000	4.69
16 Benzo(a)Pyrene	4.624	4.624	0.000	92354	5.00000	4.69
17 Dibenzo(a,h)Anthracene	5.018	5.018	0.000	24053	5.00000	4.68
18 Benzo(g,h,i)Perylene	5.231	5.231	0.000	42552	5.00000	5.94
19 Indeno(1,2,3-c,d)Pyrene	5.504	5.504	0.000	77668	5.00000	5.32

000260

Data File: /var/chem/hplc1.i/050628.b/h0000710.d
Date : 28-JUN-2005 09:47
Client ID: 8310-05.0
Sample Info: 8310-05.0
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000711.d
Lab Smp Id: 8310-10.0 Client Smp ID: 8310-10.0
Inj Date : 28-JUN-2005 09:55
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-10.0
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 09:55 Cal File: h0000711.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.209	1.209	0.000	26675	10.0000	10.6(M)
2 Acenaphthylene	1.449	1.449	0.000	17795	10.0000	9.75(M)
3 1-Methynaphthalene	1.582	1.582	0.000	15207	10.0000	9.58(M)
4 2-Methylnaphthalene	1.669	1.669	0.000	21400	10.0000	9.82(M)
5 Acenaphthene	1.742	1.742	0.000	9849	10.0000	9.29(M)
6 Fluorene	1.862	1.862	0.000	114463	10.0000	9.71(M)
7 Phenanthrene	2.116	2.116	0.000	251739	10.0000	9.56(M)
8 Anthracene	2.376	2.376	0.000	459821	10.0000	9.24(M)
9 Fluoranthene	2.629	2.629	0.000	68028	10.0000	9.55(M)
10 Pyrene	2.809	2.809	0.000	61558	10.0000	10.1(M)
$ 11 p-Terphenyl	3.303	3.303	0.000	75452	10.0000	9.28(M)
12 Benzo(a)Anthracene	3.489	3.489	0.000	170908	10.0000	9.81(M)
13 Chrysene	3.656	3.656	0.000	280041	10.0000	9.76(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.162	4.162	0.000	199527	10.0000	9.74(M)
15 Benzo(k)Fluoranthene	4.423	4.423	0.000	122948	10.0000	9.49(M)
16 Benzo(a)Pyrene	4.609	4.609	0.000	186404	10.0000	9.48(M)
17 Dibenzo(a,h)Anthracene	5.003	5.003	0.000	44247	10.0000	8.61(M)
18 Benzo(g,h,i)Perylene	5.209	5.209	0.000	69471	10.0000	9.70(M)
19 Indeno(1,2,3-c,d)Pyrene	5.482	5.482	0.000	142017	10.0000	9.74(M)

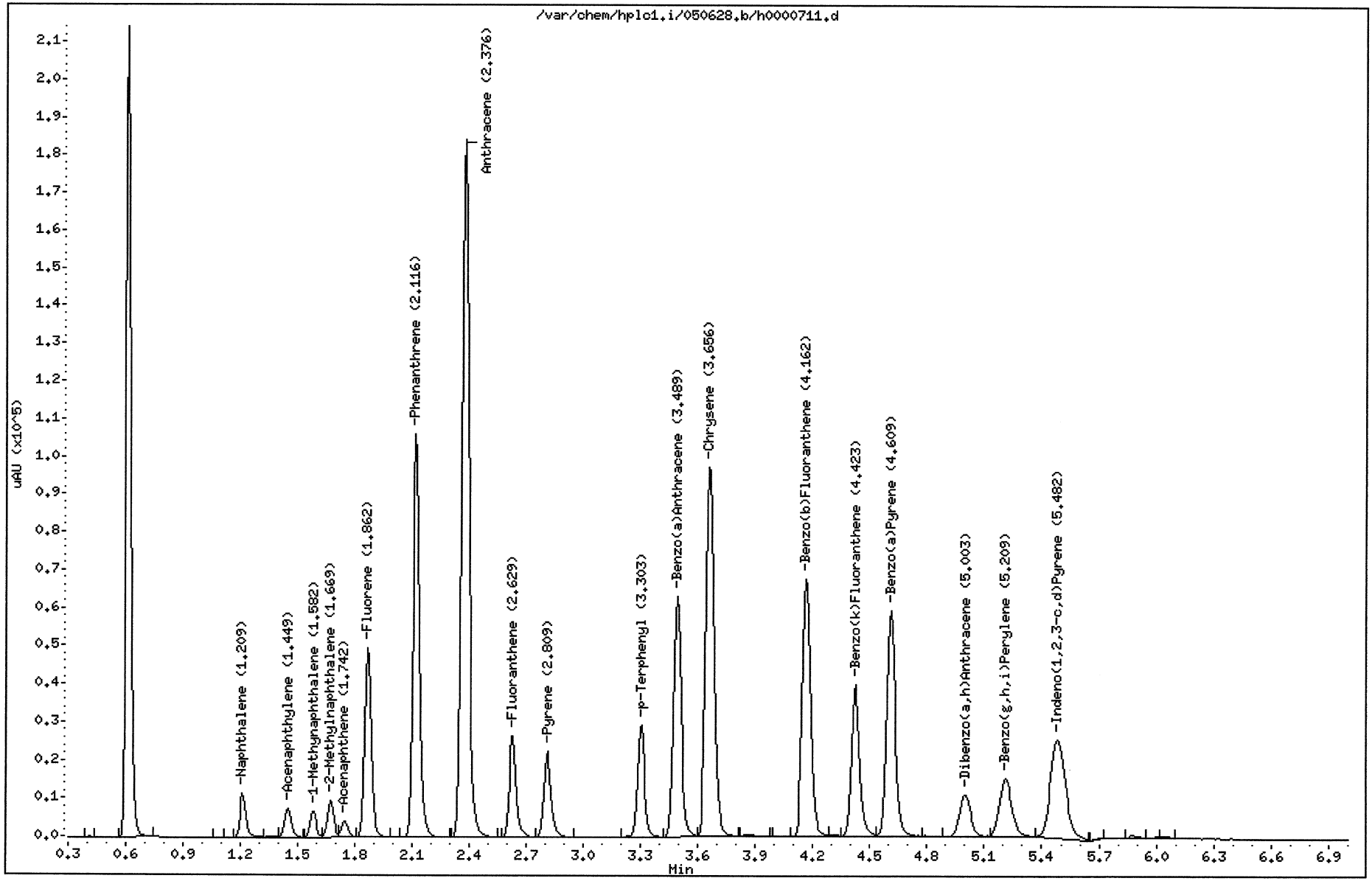
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000711.d
Date : 28-JUN-2005 09:55
Client ID: 8310-10.0
Sample Info: 8310-10.0
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000712.d
Lab Smp Id: 8310-20.0 Client Smp ID: 8310-20.0
Inj Date : 28-JUN-2005 10:03
Operator : jar Inst ID: hplc1.i
Smp Info : 8310-20.0
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:20 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

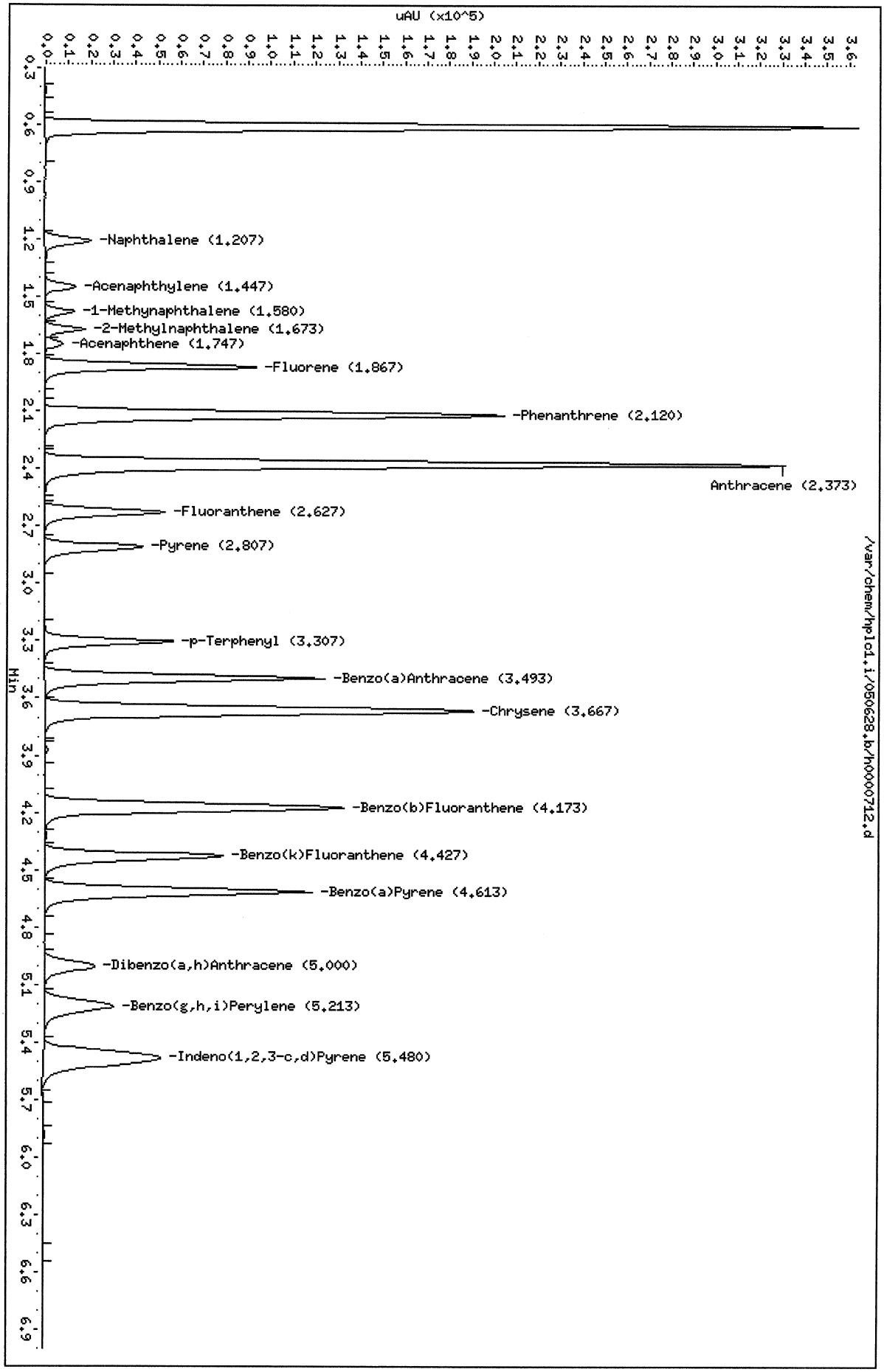
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.207	1.207	0.000	52292	20.0000	20.7
2 Acenaphthylene	1.447	1.447	0.000	35767	20.0000	19.6
3 1-Methynaphthalene	1.580	1.580	0.000	30237	20.0000	19.0
4 2-Methylnaphthalene	1.673	1.673	0.000	42400	20.0000	19.5
5 Acenaphthene	1.747	1.747	0.000	19492	20.0000	18.4
6 Fluorene	1.867	1.867	0.000	228695	20.0000	19.4
7 Phenanthrene	2.120	2.120	0.000	499686	20.0000	19.0
8 Anthracene	2.373	2.373	0.000	854583	20.0000	17.2
9 Fluoranthene	2.627	2.627	0.000	134875	20.0000	18.9
10 Pyrene	2.807	2.807	0.000	121672	20.0000	20.0
$ 11 p-Terphenyl	3.307	3.307	0.000	151085	20.0000	18.6
12 Benzo(a)Anthracene	3.493	3.493	0.000	340452	20.0000	19.5
13 Chrysene	3.667	3.667	0.000	556505	20.0000	19.4

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.173	4.173	0.000	394793	20.0000	19.3
15 Benzo(k)Fluoranthene	4.427	4.427	0.000	238555	20.0000	18.4
16 Benzo(a)Pyrene	4.613	4.613	0.000	364763	20.0000	18.5
17 Dibenzo(a,h)Anthracene	5.000	5.000	0.000	86749	20.0000	16.9
18 Benzo(g,h,i)Perylene	5.213	5.213	0.000	136664	20.0000	19.1
19 Indeno(1,2,3-c,d)Pyrene	5.480	5.480	0.000	276301	20.0000	18.9

Data File: /var/chem/hplc1.i/050628.b/h0000712.d
Date : 28-JUN-2005 10:03
Client ID: 8310-20.0
Sample Info: 8310-20.0
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



Data File: /var/chem/hplc1.i/050628.b/h0000713.d
Report Date: 28-Jun-2005 16:05

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 8310ICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/050628.b/flpnauv.m
Misc Info:

Client SDG: 050628
Fraction: OTHER
Client Smp ID: 8310ICV
Operator: jar
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	2.50	2.50	99.97	80-120
2 Acenaphthylene	2.50	2.18	87.35	80-120
3 1-Methynaphthalene	2.50	2.31	92.32	80-120
4 2-Methylnaphthalen	2.50	2.33	93.12	80-120
5 Acenaphthene	2.50	2.23	89.34	80-120
6 Fluorene	2.50	2.43	97.21	80-120
7 Phenanthrene	2.50	2.43	97.15	80-120
8 Anthracene	2.50	2.48	99.27	80-120
9 Fluoranthene	2.50	2.37	94.73	80-120
10 Pyrene	2.50	2.55	102.13	80-120
12 Benzo(a)Anthracene	2.50	2.47	98.92	80-120
13 Chrysene	2.50	2.50	100.06	80-120
14 Benzo(b)Fluoranthe	2.50	2.44	97.55	80-120
15 Benzo(k)Fluoranthe	2.50	2.39	95.79	80-120
16 Benzo(a)Pyrene	2.50	2.35	94.14	80-120
17 Dibenzo(a,h)Anthra	2.50	2.48	99.38	80-120
18 Benzo(g,h,i)Peryle	2.50	3.36	134.44*	80-120
19 Indeno(1,2,3-c,d)P	2.50	3.65	145.80*	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	2.00	2.40	120.08	40-140

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000713.d
Lab Smp Id: 8310ICV
Client Smp ID: 8310ICV
Inj Date : 28-JUN-2005 10:52
Operator : jar
Inst ID: hplc1.i
Smp Info : 8310ICV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw
Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03
Cal File: h0000712.d
Als bottle: 1
QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.201	1.207	-0.006	6306	2.49914	2.50
2 Acenaphthylene	1.434	1.447	-0.013	3986	2.18365	2.18
3 1-Methynaphthalene	1.567	1.580	-0.013	3665	2.30807	2.31
4 2-Methylnaphthalene	1.661	1.673	-0.012	5074	2.32808	2.33
5 Acenaphthene	1.734	1.747	-0.013	2367	2.23340	2.23
6 Fluorene	1.847	1.867	-0.020	28657	2.43028	2.43
7 Phenanthrene	2.101	2.120	-0.019	63945	2.42864	2.43
8 Anthracene	2.354	2.373	-0.019	123542	2.48167	2.48
9 Fluoranthene	2.601	2.627	-0.026	16864	2.36816	2.37
10 Pyrene	2.788	2.807	-0.019	15550	2.55337	2.55
$ 11 p-Terphenyl	3.268	3.307	-0.039	19519	2.40168	2.40
12 Benzo(a)Anthracene	3.454	3.493	-0.039	43079	2.47304	2.47
13 Chrysene	3.621	3.667	-0.046	71813	2.50160	2.50

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	4.128	4.173	-0.045	49981	2.43882	2.44
15 Benzo(k)Fluoranthene	4.381	4.427	-0.046	31016	2.39481	2.39
16 Benzo(a)Pyrene	4.561	4.613	-0.052	46296	2.35350	2.35
17 Dibenzo(a,h)Anthracene	4.934	5.000	-0.066	12762	2.48449	2.48
18 Benzo(g,h,i)Perylene	5.147	5.213	-0.066	24075	3.36098	3.36(R)
19 Indeno(1,2,3-c,d)Pyrene	5.394	5.480	-0.086	53171	3.64510	3.65(R)

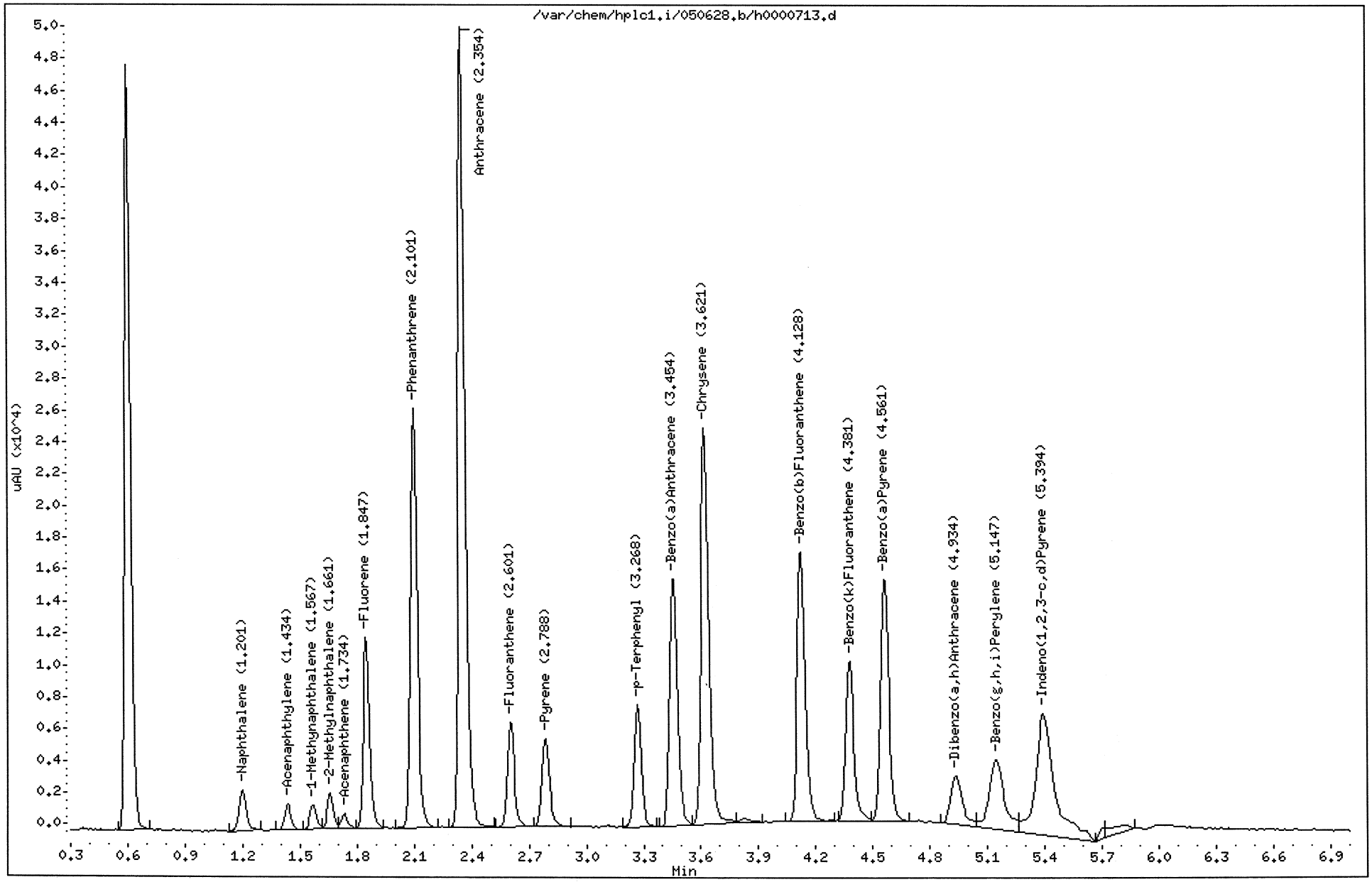
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

000270

Data File: /var/chem/hplc1.i/050628.b/h0000713.d
Date : 28-JUN-2005 10:52
Client ID: 8310ICV
Sample Info: 8310ICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



Data File: /var/chem/hplc1.i/050628.b/h0000727.d
Report Date: 30-Jun-2005 13:28

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000727.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050628.b/flpnauv.m

Injection Date: 28-JUN-2005 14:11
Init. Cal. Date(s): 28-JUN-2005 28-JUN-2005
Init. Cal. Times: 09:08 10:03
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2523	2538	0.010	-0.56786	15.00000	Averaged
	2 Acenaphthylene	1826	1655	0.010	9.35434	15.00000	Averaged
	3 1-Methynaphthalene	1588	1515	0.010	4.58378	15.00000	Averaged
	4 2-Methylnaphthalene	2180	2072	0.010	4.91659	15.00000	Averaged
	5 Acenaphthene	1060	1090	0.010	-2.88540	15.00000	Averaged
	6 Fluorene	11792	11667	0.010	1.05957	15.00000	Averaged
	7 Phenanthrene	26330	25214	0.010	4.23858	15.00000	Averaged
	8 Anthracene	49782	49210	0.010	1.14852	15.00000	Averaged
	9 Fluoranthene	7121	6922	0.010	2.79192	15.00000	Averaged
	10 Pyrene	6090	5994	0.010	1.57221	15.00000	Averaged
$	11 p-Terphenyl	8128	7938	0.010	2.33711	15.00000	Averaged
	12 Benzo(a)Anthracene	17420	17100	0.010	1.83486	15.00000	Averaged
	13 Chrysene	28707	28012	0.010	2.42057	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20494	20182	0.010	1.52396	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12951	12934	0.010	0.13816	15.00000	Averaged
	16 Benzo(a)Pyrene	19671	18934	0.010	3.74506	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	5137	4578	0.010	10.88303	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	7163	6907	0.010	3.58025	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14587	14932	0.010	-2.36223	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.26021
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000727.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 28-JUN-2005 14:11
Operator : jar Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-29-1
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 30-Jun-2005 13:27 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.212	1.212	0.000	6344	2.50000	2.51
2 Acenaphthylene	1.445	1.445	0.000	4137	2.50000	2.27
3 1-Methynaphthalene	1.578	1.578	0.000	3788	2.50000	2.39
4 2-Methylnaphthalene	1.672	1.672	0.000	5181	2.50000	2.38
5 Acenaphthene	1.745	1.745	0.000	2726	2.50000	2.57
6 Fluorene	1.865	1.865	0.000	29167	2.50000	2.47
7 Phenanthrene	2.118	2.118	0.000	63034	2.50000	2.39
8 Anthracene	2.378	2.378	0.000	123026	2.50000	2.47
9 Fluoranthene	2.632	2.632	0.000	17306	2.50000	2.43
10 Pyrene	2.812	2.812	0.000	14986	2.50000	2.46
$ 11 p-Terphenyl	3.305	3.305	0.000	19844	2.50000	2.44
12 Benzo(a)Anthracene	3.498	3.498	0.000	42750	2.50000	2.45
13 Chrysene	3.665	3.665	0.000	70030	2.50000	2.44

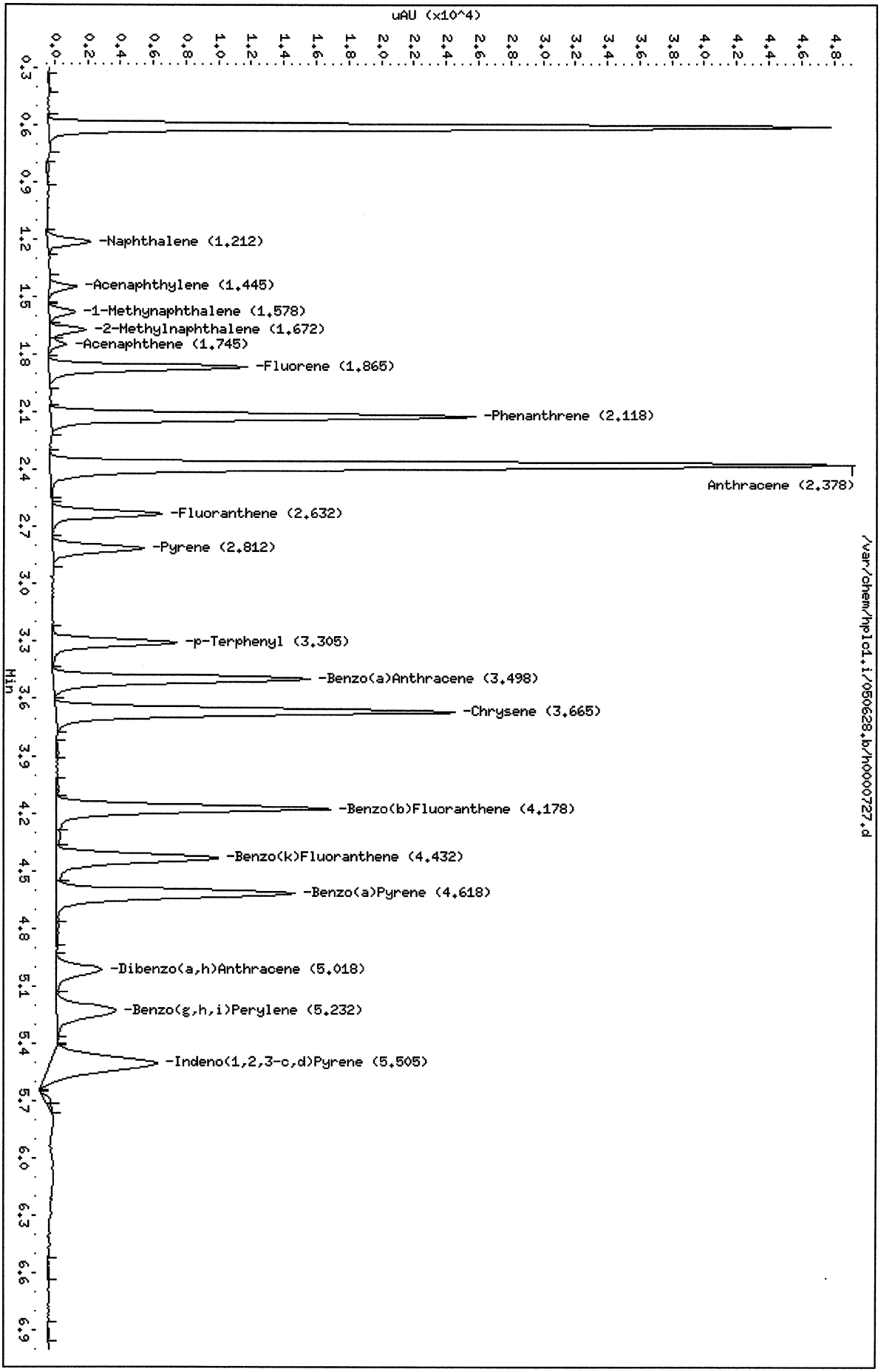
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	4.178	4.178	0.000	50454	2.50000	2.46
15 Benzo(k)Fluoranthene	4.432	4.432	0.000	32334	2.50000	2.50
16 Benzo(a)Pyrene	4.618	4.618	0.000	47336	2.50000	2.41
17 Dibenzo(a,h)Anthracene	5.018	5.018	0.000	11445	2.50000	2.23(M)
18 Benzo(g,h,i)Perylene	5.232	5.232	0.000	17267	2.50000	2.41(M)
19 Indeno(1,2,3-c,d)Pyrene	5.505	5.505	0.000	37329	2.50000	2.56(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000727.d
Date : 28-JUN-2005 14:11
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Calibration File Names:
Level 1: /var/chem/MSSV3.i/2050622.s.b/b9423.d
Level 2: /var/chem/MSSV3.i/2050622.s.b/b9422.d
Level 3: /var/chem/MSSV3.i/2050622.s.b/b9421.d
Level 4: /var/chem/MSSV3.i/2050622.s.b/b9416.d
Level 5: /var/chem/MSSV3.i/2050622.s.b/b9415.d
Level 6: /var/chem/MSSV3.i/2050622.s.b/b9417.d
Level 7: /var/chem/MSSV3.i/2050622.s.b/b9418.d
Level 8: /var/chem/MSSV3.i/2050622.s.b/b9419.d
Level 9: /var/chem/MSSV3.i/2050622.s.b/b9420.d

Compound	0.2000 Level 1	1 Level 2	2 Level 3	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	120 Level 7	160 Level 8	200 Level 9								
1 n-Nitrosodimethylamine	+++++	+++++	+++++	0.25632	0.25663	0.26138					
	0.25568	0.25520	0.23381				AVRG		0.25317		3.84765
2 Pyridine	+++++	+++++	+++++	1.23880	1.19041	1.27672					
	1.13928	1.29408	1.16380				AVRG		1.21718		5.13866
5 Aniline	1159	5120	10987	33435	95773	+++++					
	+++++	142801	+++++				QUAD	0.10168	-0.36406	0.32430	0.99275
6 Phenol +	+++++	3.62707	3.72992	3.44625	3.27451	3.28898					
	3.22218	3.19472	2.95445				AVRG		3.34226		7.46903
7 bis(-2-Chloroethyl)Ether	+++++	2.17323	2.20101	1.98348	1.98605	2.03497					
	2.00610	2.02321	2.12749				AVRG		2.06694		4.21312

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
8 2-Chlorophenol	+++++	1.47563	1.37266	1.32799	1.29842	1.29000					
	1.23488	1.24634	1.15750				AVRG		1.30043		7.37802
9 1,3-Dichlorobenzene	+++++	1.65379	1.55958	1.49234	1.53641	1.61320					
	1.57408	1.63340	1.62246				AVRG		1.58566		3.45285
11 1,4-Dichlorobenzene +	+++++	1.66958	1.58404	1.51553	1.54421	1.59563					
	1.58471	1.63092	1.60637				AVRG		1.59137		3.00409
12 Benzyl alcohol	+++++	+++++	1.38836	1.34491	1.30971	1.38199					
	1.37269	1.31313	1.19317				AVRG		1.32914		5.09971
13 1,2-Dichlorobenzene	+++++	1.56359	1.52307	1.45361	1.48421	1.48283					
	1.46641	1.50799	1.51167				AVRG		1.49917		2.33719
14 Bis(2-chloroisopropyl)ether	+++++	1.23208	1.19706	1.17669	1.14214	1.16686					
	1.14343	1.15022	1.11130				AVRG		1.16497		3.20481
15 2-Methylphenol	+++++	2.25292	2.08272	1.95063	1.80435	1.91514					
	1.83270	1.81638	1.65373				AVRG		1.91357		9.68796
16 N-Nitroso-di-n-propylamine++	+++++	2.85956	2.72123	2.68664	2.48416	2.64730					
	2.60589	2.59292	2.33520				AVRG		2.61661		6.01201
17 3- & 4-Methylphenol	+++++	2.10107	1.94692	2.01832	1.85399	1.90749					
	1.88819	1.88383	1.67865				AVRG		1.90981		6.48662

GCAL, Inc.

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Start Cal Date : 08-JUN-2005 11:51
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
18 Hexachloroethane	+++++	0.91109	0.96890	0.90305	0.90001	0.91913						
	0.93807	0.92756	0.93246				AVRG		0.92503		2.41535	
20 Nitrobenzene	+++++	1.24185	1.20466	1.16784	1.15287	1.18044						
	1.18763	1.19636	1.16124				AVRG		1.18661		2.39332	
21 Isophorone	+++++	1.79232	1.78915	1.72709	1.44781	1.71091						
	1.71987	1.65348	1.54401				AVRG		1.67308		7.21562	
22 2-Nitrophenol +	+++++	+++++	0.17718	0.18012	0.19115	0.19188						
	0.19668	0.19791	0.18754				AVRG		0.18892		4.16788	
23 2,4-Dimethyphenol	+++++	0.62432	0.68051	0.68584	0.66280	0.69952						
	0.69610	0.67580	0.62114				AVRG		0.66825		4.54191	
24 bis(-2-Chloroethoxy)methane	+++++	0.99642	0.90977	0.89021	0.90531	0.93177						
	0.95017	0.93651	0.88913				AVRG		0.92616		3.87530	
25 Benzoic Acid	+++++	+++++	+++++	+++++	12589	29516						
	63821	77588	107730				QUAD	1.03367	2.36002	3.08576	0.99390	<-
26 2,4-Dichlorophenol +	+++++	0.30153	0.32341	0.30975	0.30435	0.30527						
	0.31106	0.29841	0.27189				AVRG		0.30321		4.86816	
27 1,2,4-Trichlorobenzene	+++++	0.46764	0.39586	0.39516	0.39226	0.40602						
	0.40751	0.41623	0.41054				AVRG		0.41140		5.88464	

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GCAL, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Naphthalene	1.45593	1.21446	1.15324	1.10303	1.10470	1.09923					
	1.14530	1.14258	1.11088				AVRG		1.16993		9.68117
30 4-Chloroaniline	+++++	1754	3912	14523	51313	66016					
	94419	+++++	+++++				QUAD	0.03357	1.15949	3.73040	0.99948
31 Hexachlorobutadiene +	+++++	0.33112	0.32991	0.32422	0.31414	0.32576					
	0.33373	0.33252	0.34250				AVRG		0.32924		2.50453
32 4-Chloro-3-Methylphenol +	+++++	0.52111	0.50895	0.50353	0.47373	0.49609					
	0.50240	0.48060	0.42728				AVRG		0.48921		5.97594
33 2-Methylnaphthalene	1.01702	0.68743	0.74306	0.69536	0.68988	0.70041					
	0.71148	0.72214	0.66580				AVRG		0.73695		14.56276
34 Hexachlorocyclopentadiene ++	+++++	+++++	+++++	4853	31920	54935					
	104140	122053	182614				QUAD	0.11034	2.29465	-0.19575	0.99875
35 2,4,6-Trichlorophenol +	+++++	0.31644	0.40396	0.36835	0.40645	0.40939					
	0.43676	0.42774	0.42443				AVRG		0.39919		9.85871
36 2,4,5-Trichlorphenol	+++++	0.39658	0.39732	0.40112	0.43665	0.42909					
	0.43726	0.43758	0.44387				AVRG		0.42243		4.82510
38 2-Chloronaphthalene	+++++	1.37813	1.11938	1.20114	1.21163	1.18203					
	1.24049	1.23449	1.28561				AVRG		1.23161		6.20268

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GCAL, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
39 2-Nitroaniline	+++++	0.30033	0.36145	0.31939	0.34953	0.33105						
	0.34994	0.35046	0.33211				AVRG		0.33678		5.95634	
40 Dimethylphthalate	+++++	1.25915	1.27367	1.14576	1.21052	1.13744						
	1.16592	1.19793	1.12704				AVRG		1.18968		4.66162	
41 2,6-Dinitrotoluene	+++++	+++++	+++++	0.24566	0.27188	0.26115						
	0.27240	0.27456	0.26261				AVRG		0.26471		4.09607	
42 Acenaphthylene	+++++	+++++	1.80744	1.62266	1.81545	1.33671						
	1.42463	1.40799	1.46485				AVRG		1.55425		12.61113	
43 3-Nitroaniline	+++++	+++++	0.25921	0.25726	0.27335	0.25019						
	0.25027	0.26659	0.22154				AVRG		0.25406		6.53341	
45 Acenaphthene +	+++++	1.17447	1.15526	1.09863	1.09783	1.07854						
	1.14559	1.13718	1.12895				AVRG		1.12706		2.90581	
46 2,4-Dinitrophenol ++	+++++	+++++	+++++	315	8955	16894						
	33086	42268	52428				QUAD	0.32125	5.94416	-0.44746	0.99226	<-
47 Dibenzofuran	+++++	1.82842	1.77218	1.63875	1.65452	1.55849						
	1.66759	1.63862	1.61371				AVRG		1.67153		5.22176	
48 2,4-Dinitrotoluene	+++++	+++++	0.31956	0.29073	0.34383	0.33600						
	0.34609	0.37114	0.33179				AVRG		0.33416		7.44287	

GCAL, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
49 4-Nitrophenol ++	+++++	+++++	+++++	0.21872	0.27429	0.28139					
	0.29256	0.31090	0.27642				AVRG		0.27571		11.24283
50 Diethylphthalate	+++++	1.24800	1.24712	1.14036	1.19462	1.09998					
	1.16013	1.20350	1.08191				AVRG		1.17195		5.33539
51 Fluorene	+++++	1.28477	1.38274	1.30580	1.35714	1.27772					
	1.34362	1.35066	1.28283				AVRG		1.32316		3.04266
52 4-Chlorophenyl-phenylether	+++++	0.63082	0.71543	0.64980	0.65954	0.64524					
	0.67495	0.66326	0.64173				AVRG		0.66009		3.97272
53 4-Nitroaniline	+++++	0.22927	0.25050	0.23233	0.25370	0.24092					
	0.26848	+++++	+++++				AVRG		0.24587		5.96989
54 4,6-Dinitro-o-cresol	+++++	+++++	+++++	2677	15751	28427					
	51038	62295	78383				LINR	0.21910	0.17242		0.99835
55 N-nitrosodiphenylamine (1)+	+++++	0.54185	0.55916	0.56189	0.55489	0.56303					
	0.55720	0.55499	0.56727				AVRG		0.55753		1.36639
56 Azobenzene	+++++	2.14079	2.10796	2.17469	2.08593	2.13707					
	2.14754	2.10404	2.16067				AVRG		2.13234		1.42581
58 4-Bromophenyl-phenylether	+++++	0.27221	0.20422	0.24128	0.22011	0.22178					
	0.22993	0.23934	0.23278				AVRG		0.23271		8.55695

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GCAL, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 Hexachlorobenzene	+++++	0.32574	0.26947	0.27402	0.27988	0.27138						
	0.28620	0.28824	0.29472				AVRG		0.28621		6.37152	
60 Pentachlorophenol +	+++++	+++++	+++++	+++++	0.08946	0.12774						
	0.14518	0.15360	0.15444				AVRG		0.13408		20.25301	
62 Phenanthrene	+++++	1.24486	1.16415	1.14609	1.09037	1.13590						
	1.15700	1.18297	1.13954				AVRG		1.15761		3.82869	
63 Anthracene	+++++	1.27749	1.09004	1.10673	1.08535	1.10780						
	1.15317	1.18089	1.11599				AVRG		1.13968		5.64286	
64 Carbazole	+++++	1.00041	0.97803	0.96414	1.00003	1.07540						
	1.10947	1.14924	1.12765				AVRG		1.05055		6.97323	
65 Di-n-butylphthalate	+++++	1.21652	0.97287	0.95148	1.08056	1.19051						
	1.26084	1.28141	1.20400				AVRG		1.14477		11.14396	
M 66 Total Methylphenol	+++++	+++++	2.01482	1.98447	1.82917	1.91131						
	1.86044	1.85010	1.66619				AVRG		1.87379		6.13825	
67 Fluoranthene +	1.28527	1.26174	1.11884	1.09237	1.19462	1.38437						
	1.42440	1.46259	1.43211				AVRG		1.29515		10.74703	
68 Benzidine	+++++	+++++	+++++	+++++	0.04103	0.02456						
	0.02460	0.03254	0.02551				AVRG		0.02965		24.22659	<-

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GCAL, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
69 Pyrene	+++++	1.30223	1.29207	1.27215	1.10338	1.02942					
	1.19783	1.12437	1.07064				AVRG		1.17401		9.08446
71 Butylbenzylphthalate	+++++	+++++	0.48278	0.47612	0.45130	0.47090					
	0.51109	0.50205	0.47872				AVRG		0.48185		4.11579
72 Benzo(a)anthracene	+++++	1.42029	1.32301	1.25696	1.17697	1.23840					
	1.31225	1.27359	1.21533				AVRG		1.27710		5.88983
73 3,3'-Dichlorobenzidine	+++++	+++++	+++++	0.45110	0.44954	0.43988					
	0.41320	0.39357	0.35151				AVRG		0.41647		9.35836
75 Chrysene	+++++	1.42585	1.21513	1.21215	1.13741	1.19494					
	1.25760	1.23852	1.20125				AVRG		1.23536		6.85027
76 bis(2-Ethylhexyl)phthalate	+++++	+++++	0.68395	0.63723	0.64484	0.65849					
	0.70470	0.69038	0.66353				AVRG		0.66902		3.70605
77 Di-n-octylphthalate +	+++++	+++++	+++++	1.16097	1.20435	1.23815					
	1.28409	1.24312	1.21534				AVRG		1.22434		3.38923
78 Benzo(b)fluoranthene	1.51344	1.07459	1.07242	1.11738	1.09943	1.20194					
	1.32787	1.37061	1.30957				AVRG		1.23192		12.68936
79 Benzo(k)fluoranthene	1.64348	1.22803	1.03676	1.16444	1.17664	1.30798					
	1.28946	1.31774	1.26446				AVRG		1.26989		13.04798

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GCAL, Inc.

INITIAL CALIBRATION DATA

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Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
80 Benzo(a)pyrene +	1.31562	1.02047	0.98417	1.03021	0.98436	1.08982					
	1.15162	1.18447	1.15646				AVRG		1.10191		10.02044
82 Indeno(1,2,3-cd)pyrene	+++++	1.61437	1.66373	1.54206	1.51767	1.71645					
	1.85392	2.00390	2.00375				AVRG		1.73948		11.14203
83 Dibenzo(a,h)anthracene	+++++	1.29507	1.21177	1.24751	1.25967	1.42105					
	1.53773	1.70072	1.65684				AVRG		1.41630		13.68774
84 Benzo(g,h,i)perylene	1449	5262	10791	36582	217730	450655					
	756859	1081239	1431057				QUAD	0.02315	0.70558	-0.01803	0.99860
85 2-Picoline	+++++	+++++	+++++	2.28814	2.15353	2.10215					
	2.03310	1.97325	1.98479				AVRG		2.08916		5.71899
86 N-Nitrosomethylethylamine	+++++	+++++	+++++	1.11332	1.05783	1.04367					
	1.02661	0.99877	1.06552				AVRG		1.05095		3.68941
87 Methyl methanesulfonate	+++++	+++++	+++++	1.72678	1.64387	1.60760					
	1.62869	1.54189	1.68505				AVRG		1.63898		3.89440
88 N-Nitrosodiethylamine	+++++	+++++	+++++	1.22302	1.15641	1.17884					
	1.19385	1.11814	1.22825				AVRG		1.18309		3.52545
89 Ethyl methanesulfonate	+++++	+++++	+++++	2.42802	2.30173	2.25649					
	2.33139	2.16184	2.44950				AVRG		2.32150		4.63693

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GCAL, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
90 Pentachloroethane	+++++	+++++	+++++	0.53623	0.51923	0.51930					
	0.50710	0.50736	0.51496				AVRG		0.51737		2.07181
91 Acetophenone	+++++	+++++	+++++	3.08292	2.96066	3.13888					
	3.11516	3.03022	2.74443				AVRG		3.01205		4.84160
92 O-Toluidine	+++++	+++++	+++++	3.12560	2.89627	2.85807					
	2.97965	2.67409	2.89274				AVRG		2.90440		5.10645
93 N-Nitrosomorpholine	+++++	+++++	+++++	1.09519	1.04674	1.03161					
	1.09143	0.95441	1.15097				AVRG		1.06172		6.33439
94 N-Nitrosopiperidine	+++++	+++++	+++++	0.22699	0.22789	0.22116					
	0.22246	0.21350	0.22567				AVRG		0.22294		2.38070
95 0,0,0-Triethylphosphorothioat	+++++	+++++	+++++	0.20184	0.20182	0.19516					
	0.19998	0.19610	0.20644				AVRG		0.20023		2.07822
96 Alpha,Alpha-Dimethylphenethyl	+++++	+++++	+++++	1.06961	1.32798	1.26428					
	1.16090	1.00783	1.19225				AVRG		1.17047		10.16658
97 Hexachloropropene	+++++	+++++	+++++	0.29828	0.30040	0.31001					
	0.29564	0.30152	0.29278				AVRG		0.29977		1.98103
98 2,6-Dichlorophenol	+++++	+++++	+++++	0.26611	0.27110	0.26032					
	0.26686	0.25100	0.27304				AVRG		0.26474		3.04089

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GCAL, Inc.

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Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
99 N-Nitrosodi-n-butylamine	+++++	+++++	+++++	0.48847	0.54286	0.51629						
	0.53939	0.49960	0.55255				AVRG		0.52319		4.92608	
100 p-Phenylenediamine	+++++	+++++	+++++	7841	57510	82571						
	135698	177539	205364				LINR	-0.19749	0.32245		0.94814	
101 Isosafrole	+++++	+++++	+++++	0.04208	0.04555	0.04461						
	0.04388	0.04192	0.04807				AVRG		0.04435		5.19882	<-
102 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	0.38136	0.38189	0.36126						
	0.36047	0.33644	0.35391				AVRG		0.36256		4.76182	
103 Safrole	+++++	+++++	+++++	0.98156	0.95756	0.94719						
	0.93923	0.91101	0.95818				AVRG		0.94912		2.47522	
104 1,4-Naphthoquinone	+++++	+++++	+++++	0.33798	0.40305	0.39366						
	0.36255	0.36622	0.34381				AVRG		0.36788		7.09528	
105 m-Dinitrobenzene	+++++	+++++	+++++	0.18563	0.21224	0.20908						
	0.19217	0.18467	0.20372				AVRG		0.19792		6.07440	
106 Pentachlorobenzene	+++++	+++++	+++++	0.58302	0.57301	0.54880						
	0.52352	0.54252	0.54816				AVRG		0.55317		3.89543	
107 2-Napthylamine	+++++	+++++	+++++	0.76507	0.82297	0.83974						
	0.70502	0.68168	0.68531				AVRG		0.74996		9.33034	

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
108 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	0.22722	0.27139	0.29388					
	0.25646	0.25335	0.26847				AVRG		0.26180		8.47583
109 1-Naphthylamine	+++++	+++++	+++++	0.88663	0.89773	0.91809					
	0.74540	0.70619	0.67189				AVRG		0.80432		13.51481
110 Thionazin	+++++	+++++	+++++	0.27544	0.31653	0.30261					
	0.25391	0.24966	0.24823				AVRG		0.27440		10.67296
111 5-Nitro-o-toluidine	+++++	+++++	+++++	0.30432	0.29541	0.29968					
	0.24192	0.22005	0.21629				AVRG		0.26295		15.74787
112 Tetraethyldithiopyrophosphate	+++++	+++++	+++++	0.23105	0.25376	0.25927					
	0.22105	0.21246	0.21237				AVRG		0.23166		8.85512
113 Diallate	+++++	+++++	+++++	0.57281	0.58445	0.56288					
	0.54634	0.58954	0.58676				AVRG		0.57380		2.91956
114 Phorate	+++++	+++++	+++++	1.30738	1.50856	1.51510					
	1.39897	1.44592	1.47919				AVRG		1.44252		5.47122
115 sym-Trinitrobenzene	+++++	+++++	+++++	1344	10090	16843					
	23934	32543	39438				LINR	0.07886	0.08845		0.98737
116 Phenacetin	+++++	+++++	+++++	0.48529	0.55628	0.57785					
	0.49013	0.48620	0.54013				AVRG		0.52265		7.77968

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
117 Dimethoate	+++++	+++++	+++++	0.52476	0.60123	0.61167						
	0.48300	0.47796	0.49564				AVRG		0.53237		11.21833	
118 Pentachloronitrobenzene	+++++	+++++	+++++	0.09685	0.10694	0.10757						
	0.09929	0.10866	0.10766				AVRG		0.10449		4.84712	
119 4-Aminobiphenyl	+++++	+++++	+++++	0.64455	0.59450	0.59366						
	0.53629	0.53405	0.51178				AVRG		0.56914		8.79671	
120 Pronamide	+++++	+++++	+++++	0.28092	0.30484	0.29301						
	0.27214	0.27639	0.28584				AVRG		0.28552		4.18296	
121 Dinoseb	+++++	+++++	+++++	1681	18735	31459						
	52260	73330	88244				LINR	0.27267	0.20494		0.99361	
122 Disulfoton	+++++	+++++	+++++	0.77774	0.72981	0.71821						
	0.66622	0.69619	0.68314				AVRG		0.71189		5.56841	
123 Methyl parathion	+++++	+++++	+++++	0.29995	0.35410	0.35160						
	0.29510	0.29029	0.28817				AVRG		0.31320		9.89472	
124 4-Nitroquinoline-1-oxide	+++++	+++++	+++++	673	7782	14704						
	20071	28019	34958				LINR	0.20501	0.07977		0.98135	<-
125 Parathion	+++++	+++++	+++++	0.15201	0.20691	0.20545						
	0.16879	0.17158	0.18433				AVRG		0.18151		11.96073	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
126 Metapyrilene	+++++	+++++	+++++	0.56114	0.75529	0.75232						
	0.58773	0.55283	0.68285				AVRG		0.64869		14.43481	
127 Isodrin	+++++	+++++	+++++	0.12071	0.13360	0.13293						
	0.12215	0.12270	0.12547				AVRG		0.12626		4.47278	
128 Aramite	+++++	+++++	+++++	0.04132	0.04823	0.04652						
	0.04577	0.04721	0.04056				AVRG		0.04494		7.14204	<-
129 p-(Dimethylamino)azobenzene	+++++	+++++	+++++	0.35232	0.36073	0.36077						
	0.34586	0.35924	0.33359				AVRG		0.35209		3.06438	
130 Chlorobenzilate	+++++	+++++	+++++	0.34424	0.32051	0.31130						
	0.30493	0.32211	0.28631				AVRG		0.31490		6.14826	
131 Famphur	+++++	+++++	+++++	0.40246	0.31328	0.21295						
	0.14832	0.10584	0.05044				AVRG		0.20555		64.43613	<-
132 3,3'-Dimethyl benzidine	+++++	+++++	+++++	0.57747	0.67908	0.64877						
	0.62769	0.60358	0.55647				AVRG		0.61551		7.39920	
133 2-Acetylaminofluorene	+++++	+++++	+++++	0.43861	0.49032	0.45527						
	0.53655	0.53985	0.54840				AVRG		0.50150		9.40214	
134 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	0.43362	0.54336	0.50383						
	0.48850	0.49112	0.50993				AVRG		0.49506		7.26319	

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 Hexachlorophene	+++++	+++++	+++++	+++++	+++++	2528						
	14833	29798	68674				QUAD	3.11691	30.76857	-32.84910	0.99187	<-
136 3-Methyl cholanthrene	+++++	+++++	+++++	0.52088	0.60039	0.58254						
	0.58649	0.60014	0.62520				AVRG		0.58594		6.00817	
137 Acrylamide	+++++	+++++	+++++	0.41560	0.45297	0.45997						
	0.44136	0.44216	+++++				AVRG		0.44241		3.81573	
138 N-Nitrosopyrrolidine	+++++	+++++	+++++	0.61647	0.60804	0.60852						
	0.59288	0.61103	+++++				AVRG		0.60739		1.44445	
139 Pthalic Acid & Anhydride	+++++	+++++	+++++	0.24798	0.18415	0.21036						
	0.25666	0.26343	+++++				AVRG		0.23251		14.59715	
140 1,4-Dinitrobenzene	+++++	+++++	+++++	0.48655	0.58534	0.59965						
	0.58696	0.60687	+++++				AVRG		0.57307		8.58370	
141 Kepone	+++++	+++++	+++++	0.05854	0.08202	0.08200						
	0.09870	0.09265	+++++				AVRG		0.08278		18.51393	
142 4,4Methylenebis2chloroanaline	+++++	+++++	+++++	0.20516	0.22502	0.21718						
	0.22834	0.22266	+++++				AVRG		0.21967		4.13180	
143 Tris2,3Dibromopropylphosphate	+++++	+++++	+++++	0.06624	0.09321	0.09009						
	0.08208	0.09323	+++++				AVRG		0.08497		13.43950	

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1	1 Level 2	2 Level 3	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	120 Level 7	160 Level 8	200 Level 9									
144 Maleic Anhydride	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	
145 1-Methylnapthalene	+++++	0.75559	0.67038	0.65622	0.63964	0.63546						
	0.64937	0.65407	0.61712				AVRG		0.65973		6.34391	
M 146 Total Methylnapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
147 N-methyldiethanolamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
148 A-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
149 3-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
150 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
151 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
152 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 3,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
154 Dimethyl Benzyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
155 Benzaldehyde	+++++	+++++	+++++	+++++	0.58305	0.80717						
	0.45630	0.31106	0.22251				AVRG		0.47602		48.47497	<-
156 Caprolactam	+++++	+++++	+++++	0.13026	0.13767	0.14009						
	0.13684	0.13891	0.11664				AVRG		0.13340		6.66952	
157 Biphenyl	+++++	+++++	0.81023	0.80873	0.81727	0.83632						
	0.84349	0.82308	0.76673				AVRG		0.81512		3.05829	
158 Atrazine	+++++	+++++	+++++	+++++	0.01495	0.01822						
	0.02124	0.02580	0.02783				AVRG		0.02161		24.51403	<-
159 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
169 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
170 Indene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
171 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
172 Methyl Chrysene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
173 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
174 2,4and/or2,6 Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
175 2,3and/or3,4 Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
176 Tolylene 2,6-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
177 Tolylene 2,4-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
178 Tolylene 2,5-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-
M 179 Tolylene diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Compound	0.2000 Level 1 / 120 Level 7	1 Level 2 / 160 Level 8	2 Level 3 / 200 Level 9	10 Level 4	50 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
180 1,4-Dioxane	+++++	+++++	+++++	0.51593	0.58208	0.54986					
	+++++	0.56199	0.58935				AVRG		0.55984		5.20615
$ 3 2-Fluorophenol	+++++	+++++	+++++	1.96377	1.95204	1.92459					
	1.84251	1.83193	1.41549				AVRG		1.82172		11.33788
$ 4 Phenol-d5	+++++	+++++	+++++	3.08581	2.90154	2.91376					
	2.82047	2.79638	2.71753				AVRG		2.87258		4.41884
$ 19 Nitrobenzene-d5	+++++	+++++	+++++	1.11133	1.11193	1.13520					
	1.15201	1.16241	1.11461				AVRG		1.13125		1.96249
$ 37 2-Fluorobiphenyl	+++++	+++++	+++++	1.46396	1.45833	1.39380					
	1.46440	1.47273	1.53894				AVRG		1.46536		3.14840
$ 57 2,4,6-Tribromophenol	+++++	+++++	+++++	0.15568	0.18988	0.19482					
	0.21620	0.22335	0.20248				AVRG		0.19707		12.12789
$ 70 Terphenyl-d14	+++++	+++++	+++++	0.86307	0.78445	0.73598					
	0.83886	0.81064	0.76434				AVRG		0.79956		5.92261

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GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 08-JUN-2005 11:51
End Cal Date : 22-JUN-2005 13:31
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Cal Date : 01-Jul-2005 11:03 rlw

Average %RSD Results.

Calculated Average %RSD = 8.78533649
Maximun Average %RSD = 15
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

GCAL, Inc.

Data file : /var/chem/MSSV3.i/2050622.s.b/b9414.d
Lab Smp Id: 1100 Client Smp ID: DFTPP
Inj Date : 22-JUN-2005 11:00
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1100*4-16-4
Misc Info : DFTPP*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/dftpp_03.m
Meth Date : 21-Jun-2005 11:27 jar3 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.877	4.922	-0.045	198	29317			100.00- 100.00	99.41
4.877	4.922	-0.045	51	9794			30.00- 60.00	33.41
4.877	4.922	-0.045	68	0			0.00- 2.00	0.00
4.877	4.922	-0.045	69	25130			0.00- 0.00	85.72
4.877	4.922	-0.045	70	181			0.00- 2.00	0.72
4.877	4.922	-0.045	127	14079			40.00- 60.00	48.02
4.877	4.922	-0.045	197	0			0.00- 1.00	0.00
4.877	4.922	-0.045	199	2114			5.00- 9.00	7.21
4.877	4.922	-0.045	275	8039			10.00- 30.00	27.42
4.877	4.922	-0.045	365	1351			1.00- 0.00	4.61
4.877	4.922	-0.045	441	3679			0.01- 99.99	81.09
4.877	4.922	-0.045	442	21946			40.00- 100.00	74.86

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp (continued)								
4.877	4.922	-0.045	443	4537			17.00- 23.00	20.67

Data File: /var/chem/MSSV3.i/2050622.s.b/b9414.d

Date : 22-JUN-2005 11:00

Client ID: DFTPP

Instrument: MSSV3.i

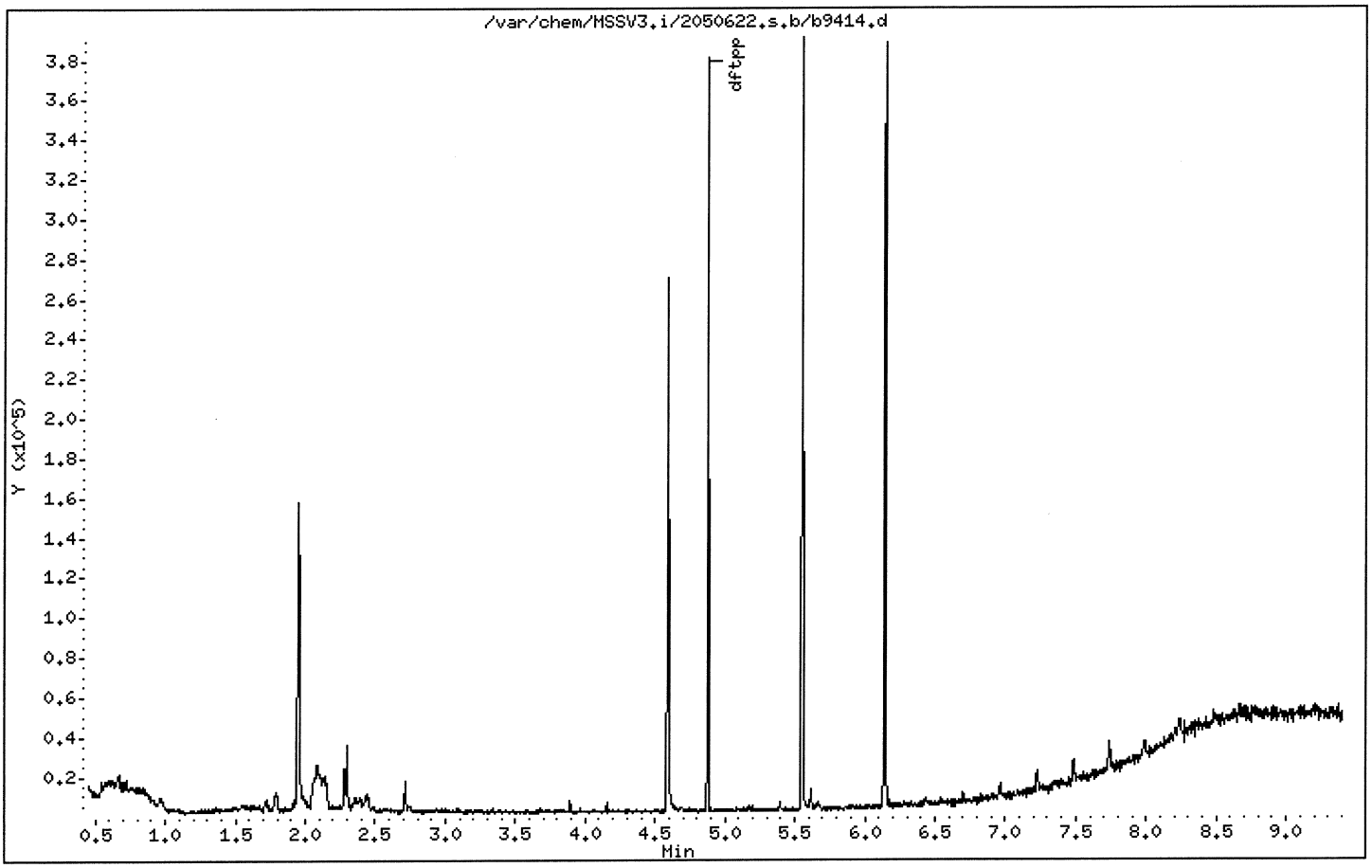
Sample Info: 1100*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00



Data File: /var/chem/MSSV3.i/2050622.s.b/b9414.d

Date : 22-JUN-2005 11:00

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100x4-16-4

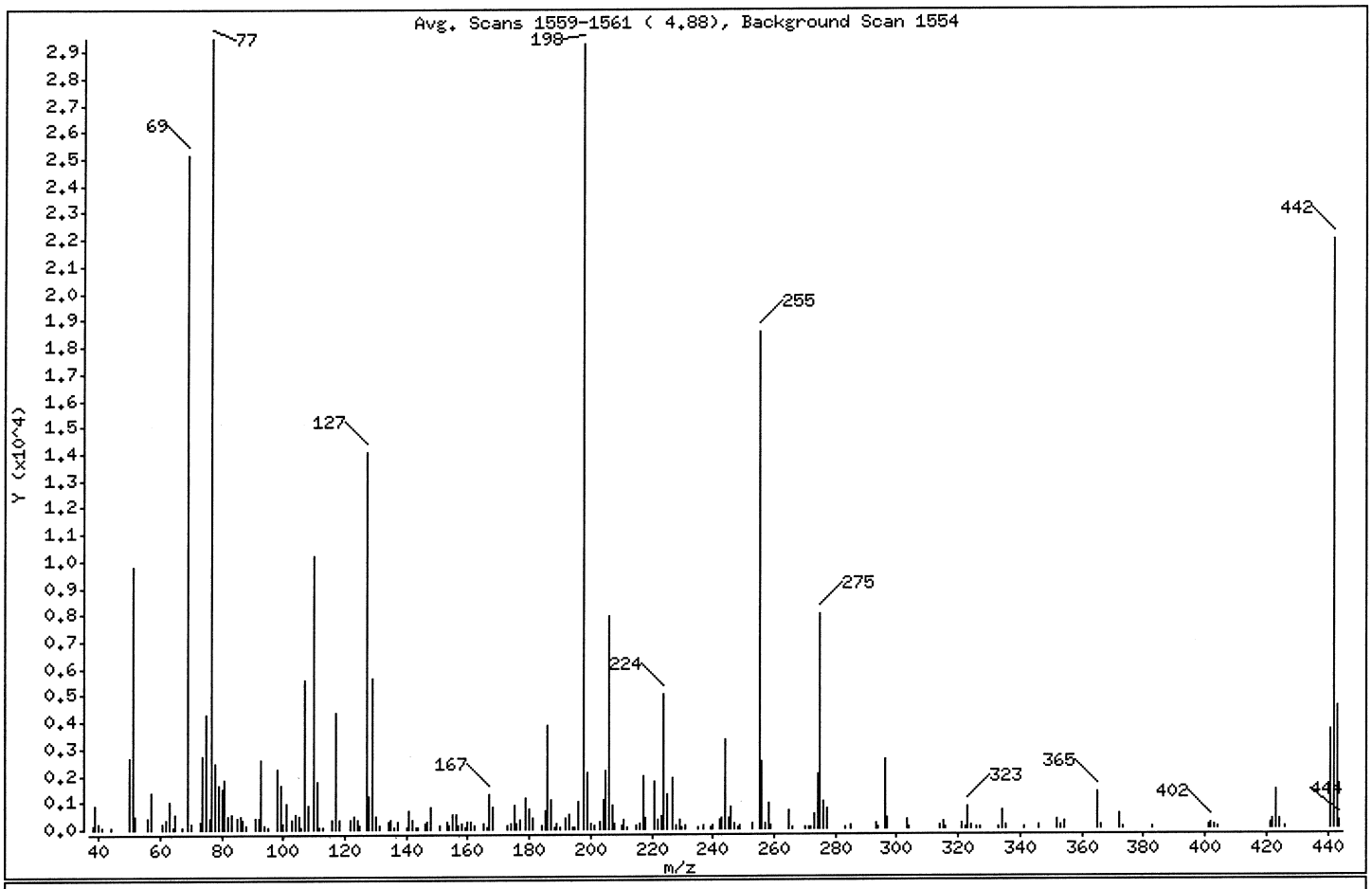
Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	33.41
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	85.72
70	Less than 2.00% of mass 69	0.62 (0.72)
127	40.00 - 60.00% of mass 198	48.02
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.21
275	10.00 - 30.00% of mass 198	27.42
365	Greater than 1.00% of mass 198	4.61
441	Present, but less than mass 443	12.55
442	40.00 - 100.00% of mass 198	74.86
443	17.00 - 23.00% of mass 442	15.48 (20.67)

Data File: /var/chem/MSSV3.i/2050622.s.b/b9414.d

Date : 22-JUN-2005 11:00

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: b9414.d
Spectrum: Avg. Scans 1559-1561 (4.88), Background Scan 1554
Location of Maximum: 77.00
Number of points: 209

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	154	117.00	4358	192.00	387	271.00	101
39.00	893	118.00	306	193.00	531	272.00	76
40.00	178	122.00	312	194.00	88	273.00	562
41.00	55	123.00	466	195.00	80	274.00	2011
44.00	91	124.00	359	196.00	1000	275.00	8039
50.00	2659	125.00	149	198.00	29312	276.00	997
51.00	9794	127.00	14079	199.00	2114	277.00	727
52.00	491	128.00	1191	200.00	177	283.00	81
56.00	435	129.00	5670	201.00	151	285.00	166
57.00	1352	130.00	462	203.00	272	293.00	227
61.00	226	131.00	120	204.00	1106	294.00	53
62.00	310	134.00	246	205.00	2164	296.00	2557
63.00	1039	135.00	350	206.00	7968	297.00	400
64.00	51	136.00	67	207.00	914	303.00	312
65.00	537	137.00	249	208.00	233	304.00	72
67.00	96	140.00	69	210.00	106	314.00	160
69.00	25128	141.00	665	211.00	336	315.00	293
70.00	181	142.00	364	212.00	52	316.00	84
73.00	251	143.00	99	215.00	151	321.00	210
74.00	2689	144.00	77	216.00	193	322.00	92
75.00	4248	146.00	189	217.00	1950	323.00	820
76.00	415	147.00	295	218.00	391	324.00	126
77.00	29488	148.00	838	221.00	1741	326.00	61
78.00	2416	151.00	150	222.00	364	327.00	88
79.00	1628	153.00	257	223.00	475	333.00	51
80.00	1482	154.00	160	224.00	5032	334.00	658
81.00	1810	155.00	544	225.00	1286	335.00	168
82.00	496	156.00	561	227.00	1900	341.00	63
83.00	512	157.00	169	228.00	158	346.00	110
85.00	374	158.00	178	229.00	321	352.00	359
86.00	459	159.00	67	230.00	51	353.00	144
87.00	319	160.00	247	231.00	162	354.00	292
88.00	137	161.00	254	235.00	61	365.00	1351
91.00	400	162.00	125	237.00	133	366.00	147
92.00	396	165.00	224	239.00	50	372.00	516

Data File: /var/chem/MSSV3.i/2050622.s.b/b9414.d

Date : 22-JUN-2005 11:00

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100x4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: b9414.d
Spectrum: Avg. Scans 1559-1561 (4.88), Background Scan 1554
Location of Maximum: 77.00
Number of points: 209

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	2608	166.00	64	240.00	105	373.00	55
94.00	150	167.00	1286	242.00	341	383.00	58
95.00	57	168.00	822	243.00	397	401.00	112
98.00	2210	173.00	149	244.00	3338	402.00	235
99.00	1648	174.00	181	245.00	429	403.00	159
100.00	174	175.00	874	246.00	797	404.00	52
101.00	948	176.00	184	247.00	187	421.00	221
103.00	346	177.00	333	248.00	56	422.00	318
104.00	530	179.00	1169	249.00	157	423.00	1400
105.00	450	180.00	739	253.00	233	424.00	332
106.00	52	181.00	433	255.00	18528	426.00	53
107.00	5549	184.00	115	256.00	2489	441.00	3679
108.00	864	185.00	690	257.00	226	442.00	21944
110.00	10166	186.00	3899	258.00	956	443.00	4537
111.00	1756	187.00	1095	259.00	142	444.00	288
112.00	77	188.00	57	265.00	681		
113.00	53	189.00	223	266.00	50		
116.00	327	190.00	96	270.00	60		

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9415.d
Lab Smp Id: 1205 Client Smp ID: STD050
Inj Date : 22-JUN-2005 11:20
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1205*4-24-2
Misc Info : STD050*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:15 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.526	0.526	(0.276)	53860	50.0000	48.9
1 n-Nitrosodimethylamine	42	0.517	0.517	(0.271)	11611	50.0000	50.7
$ 3 2-Fluorophenol	112	1.002	1.002	(0.525)	88320	50.0000	53.6
$ 4 Phenol-d5	99	1.757	1.757	(0.921)	131280	50.0000	50.5
5 Aniline	93	1.695	1.695	(0.888)	95773	50.0000	50.0
6 Phenol +	94	1.766	1.766	(0.926)	148155	50.0000	49.0
7 bis(-2-Chloroethyl)Ether	63	1.735	1.735	(0.909)	89859	50.0000	48.0
8 2-Chlorophenol	128	1.797	1.797	(0.942)	58747	50.0000	49.9
9 1,3-Dichlorobenzene	146	1.868	1.868	(0.979)	69515	50.0000	48.4
* 10 1,4-Dichlorobenzene-d4	152	1.908	1.908	(1.000)	36196	40.0000	
11 1,4-Dichlorobenzene +	146	1.919	1.919	(1.006)	69868	50.0000	48.5
12 Benzyl alcohol	108	2.027	2.027	(1.062)	59258	50.0000	49.3
13 1,2-Dichlorobenzene	146	2.019	2.019	(1.058)	67153	50.0000	49.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	15 2-Methylphenol	108	2.141	2.141	(1.122)	81638	50.0000	47.1
	14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.100)	51676	50.0000	49.0
	17 3- & 4-Methylphenol	108	2.240	2.240	(1.174)	83884	50.0000	48.5
	16 N-Nitroso-di-n-propylamine++	70	2.186	2.186	(1.146)	112396	50.0000	47.5
	18 Hexachloroethane	117	2.231	2.231	(1.170)	40721	50.0000	48.6
$	19 Nitrobenzene-d5	82	2.274	2.274	(0.839)	160796	50.0000	49.1
	20 Nitrobenzene	77	2.285	2.285	(0.843)	166717	50.0000	48.6
	21 Isophorone	82	2.433	2.433	(0.897)	209368	50.0000	43.3
	22 2-Nitrophenol +	139	2.484	2.484	(0.916)	27642	50.0000	50.6
	23 2,4-Dimethyphenol	107	2.549	2.549	(0.940)	95847	50.0000	49.6
	24 bis(-2-Chloroethoxy)methane	93	2.575	2.575	(0.950)	130917	50.0000	48.9
	25 Benzoic Acid	122	2.643	2.643	(0.975)	12589	50.0000	53.1
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.982)	44012	50.0000	50.2
	27 1,2,4-Trichlorobenzene	180	2.680	2.680	(0.988)	56724	50.0000	47.7
*	28 Naphthalene-d8	136	2.711	2.711	(1.000)	115688	40.0000	
	29 Naphthalene	128	2.725	2.725	(1.005)	159750	50.0000	48.7
	30 4-Chloroaniline	127	2.774	2.774	(1.023)	51313	50.0000	51.3
	31 Hexachlorobutadiene +	225	2.802	2.802	(1.034)	45428	50.0000	47.7
	32 4-Chloro-3-Methylphenol +	107	3.114	3.114	(1.149)	68506	50.0000	48.4
	33 2-Methylnaphthalene	142	3.145	3.145	(1.160)	99763	50.0000	46.8
	145 1-Methylnapthalene	142	3.205	3.205	(1.182)	92498	50.0000	48.5
	34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	31920	50.0000	50.0
	35 2,4,6-Trichlorophenol +	196	3.341	3.341	(0.884)	31228	50.0000	50.9
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	33548	50.0000	51.7
$	37 2-Fluorobiphenyl	172	3.372	3.372	(0.892)	112045	50.0000	49.8
	38 2-Chloronaphthalene	162	3.443	3.443	(0.911)	93091	50.0000	49.2
	39 2-Nitroaniline	138	3.523	3.523	(0.932)	26855	50.0000	51.9
	40 Dimethylphthalate	163	3.628	3.628	(0.959)	93006	50.0000	50.9
	41 2,6-Dinitrotoluene	165	3.665	3.665	(0.969)	20889	50.0000	51.4
	42 Acenaphthylene	152	3.693	3.693	(0.977)	139483	50.0000	58.4
	43 3-Nitroaniline	138	3.778	3.778	(0.999)	21002	50.0000	53.8
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	61465	40.0000	
	45 Acenaphthene +	153	3.801	3.801	(1.005)	84348	50.0000	48.7
	46 2,4-Dinitrophenol ++	184	3.838	3.838	(1.015)	8955	50.0000	53.2
	49 4-Nitrophenol ++	109	3.951	3.951	(1.045)	21074	50.0000	49.7
	47 Dibenzofuran	168	3.906	3.906	(1.033)	127119	50.0000	49.5
	48 2,4-Dinitrotoluene	165	3.909	3.909	(1.034)	26417	50.0000	51.4
	50 Diethylphthalate	149	4.059	4.059	(1.074)	91784	50.0000	51.0
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	50673	50.0000	50.0
	51 Fluorene	166	4.116	4.116	(1.089)	104271	50.0000	51.3
	53 4-Nitroaniline	138	4.153	4.153	(1.098)	19492	50.0000	51.6
	54 4,6-Dinitro-o-cresol	198	4.161	4.161	(0.887)	15751	50.0000	46.7
	55 N-nitrosodiphenylamine (1)+	169	4.198	4.198	(0.895)	66838	50.0000	49.8
	56 Azobenzene	77	4.215	4.215	(0.899)	251258	50.0000	48.9
$	57 2,4,6-Tribromophenol	332	4.272	4.272	(1.130)	14589	50.0000	48.2
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	26513	50.0000	47.3
	59 Hexachlorobenzene	284	4.454	4.454	(0.950)	33712	50.0000	48.9

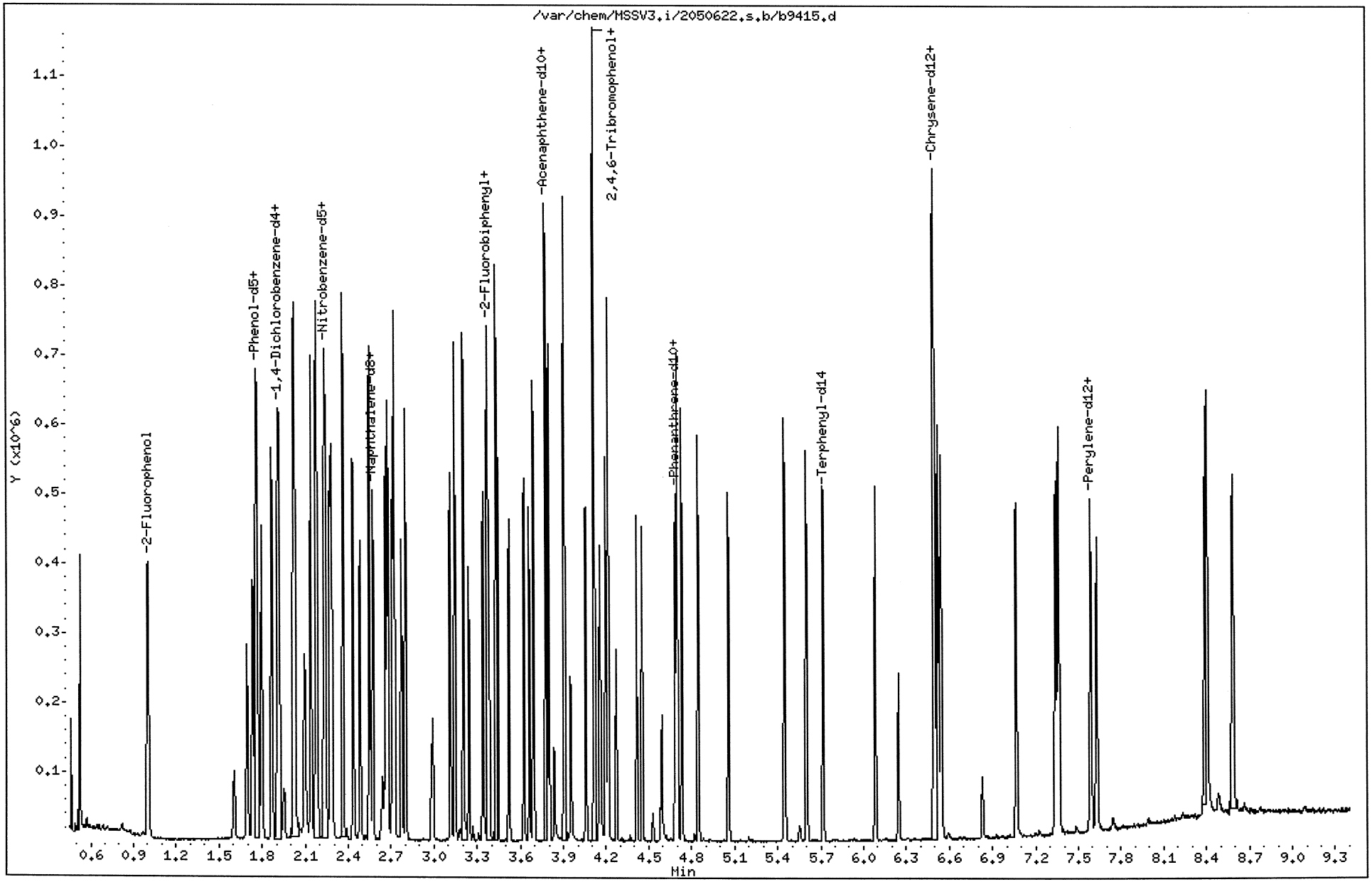
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	60 Pentachlorophenol +	266	4.593	4.593	(0.979)	10776	50.0000	33.4
*	61 Phenanthrene-d10	188	4.689	4.689	(1.000)	96363	40.0000	
	62 Phenanthrene	178	4.704	4.704	(1.003)	131339	50.0000	47.1
	63 Anthracene	178	4.732	4.732	(1.009)	130734	50.0000	47.6
	64 Carbazole	167	4.848	4.848	(1.034)	120457	50.0000	47.6
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	130157	50.0000	47.2
	67 Fluoranthene +	202	5.450	5.450	(1.162)	143896	50.0000	46.1
	68 Benzidine	184	5.555	5.555	(0.854)	5437	50.0000	69.2
	69 Pyrene	202	5.603	5.603	(0.862)	146228	50.0000	47.0
$	70 Terphenyl-d14	244	5.720	5.720	(0.880)	103961	50.0000	49.1
	71 Butylbenzylphthalate	149	6.086	6.086	(0.936)	59809	50.0000	46.8
	73 3,3'-Dichlorobenzidine	252	6.494	6.494	(0.999)	59576	50.0000	54.0
	72 Benzo(a)anthracene	228	6.497	6.497	(0.999)	155981	50.0000	46.1
*	74 Chrysene-d12	240	6.503	6.503	(1.000)	106022	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.546	6.546	(1.007)	85459	50.0000	48.2
	75 Chrysene	228	6.523	6.523	(1.003)	150738	50.0000	46.0
	77 Di-n-octylphthalate +	149	7.068	7.068	(1.087)	159610	50.0000	49.2
	78 Benzo(b)fluoranthene	252	7.343	7.343	(0.962)	178018	50.0000	44.6
	79 Benzo(k)fluoranthene	252	7.363	7.363	(0.965)	190520	50.0000	46.3
	80 Benzo(a)pyrene +	252	7.587	7.587	(0.994)	159387	50.0000	44.7
*	81 Perylene-d12	264	7.633	7.633	(1.000)	129535	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.393	8.393	(1.100)	245739	50.0000	43.6
	83 Dibenzo(a,h)anthracene	278	8.405	8.405	(1.101)	203965	50.0000	44.5
	84 Benzo(g,h,i)perylene	276	8.586	8.586	(1.125)	217730	50.0000	46.3
M	66 Total Methylphenol	108				165522	100.000	97.6
	91 Acetophenone	105	2.177	2.177	(1.141)	133955	50.0000	49.1
	155 Benzaldehyde	77	1.607	1.607	(0.842)	26380	50.0000	34.5
	156 Caprolactam	113	2.992	2.992	(1.104)	19908	50.0000	51.6
	157 Biphenyl	154	3.432	3.432	(1.266)	118185	50.0000	50.1
	158 Atrazine	200	4.530	4.530	(0.966)	1801	50.0000	11.9
	180 1,4-Dioxane	88	0.466	0.466	(0.244)	26336	50.0000	52.0

Data File: /var/chem/MSSV3.i/2050622.s.b/b9415.d
Date : 22-JUN-2005 11:20
Client ID: STD050
Sample Info: 1205*4-24-2
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3
Column diameter: 0.25

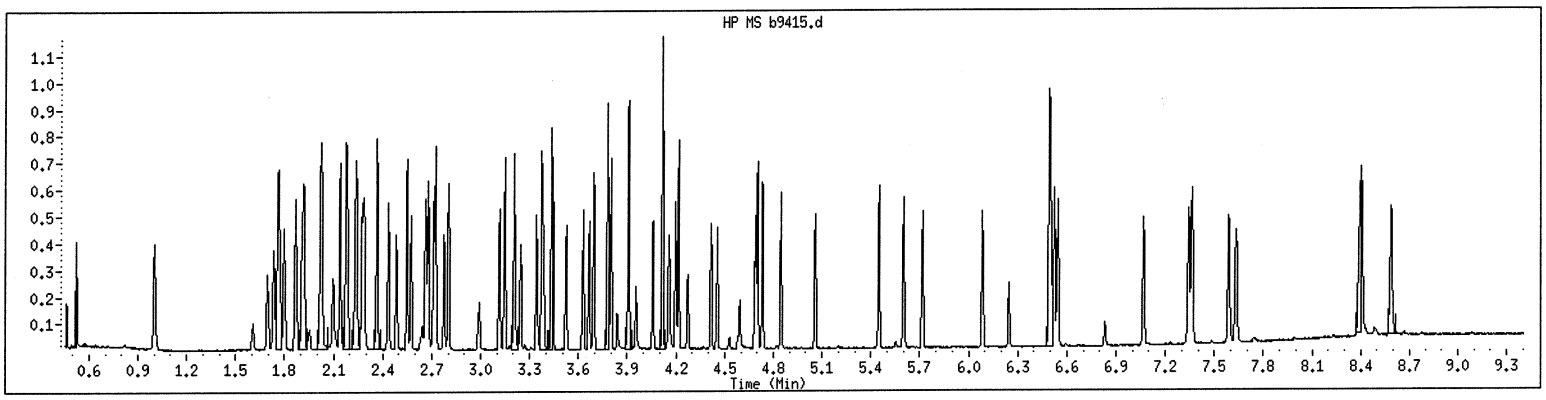
000304



Data file : /var/chem/MSSV3.i/2050622.s.b/b9415.d
Report Date: 06/22/2005 15:15

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 22-JUN-2005 11:20	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1205*4-24-2		
Misc Info	: STD050*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9416.d
Lab Smp Id: 1204 Client Smp ID: STD010
Inj Date : 22-JUN-2005 11:41
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1204*4-24-3
Misc Info : STD010*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:13 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 11:41 Cal File: b9416.d
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.528	0.528	(0.277)	12445	10.0000	10.2
1 n-Nitrosodimethylamine	42	0.517	0.517	(0.271)	2575	10.0000	10.1
$ 3 2-Fluorophenol	112	1.005	1.005	(0.527)	19728	10.0000	10.8
$ 4 Phenol-d5	99	1.757	1.757	(0.921)	31000	10.0000	10.7
5 Aniline	93	1.695	1.695	(0.888)	33435	10.0000	10.0
6 Phenol +	94	1.769	1.769	(0.927)	34621	10.0000	10.3
7 bis(-2-Chloroethyl)Ether	63	1.735	1.735	(0.909)	19926	10.0000	9.60
8 2-Chlorophenol	128	1.797	1.797	(0.942)	13341	10.0000	10.2
9 1,3-Dichlorobenzene	146	1.865	1.865	(0.978)	14992	10.0000	9.41
* 10 1,4-Dichlorobenzene-d4	152	1.908	1.908	(1.000)	40184	40.0000	
11 1,4-Dichlorobenzene +	146	1.919	1.919	(1.006)	15225	10.0000	9.52

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.027	2.027	(1.062)	13511	10.0000	10.1
	13 1,2-Dichlorobenzene	146	2.019	2.019	(1.058)	14603	10.0000	9.70
	15 2-Methylphenol	108	2.138	2.138	(1.120)	19596	10.0000	10.2
	14 Bis(2-chloroisopropyl)ether	45	2.095	2.095	(1.098)	11821	10.0000	10.1
	17 3- & 4-Methylphenol	108	2.240	2.240	(1.174)	20276	10.0000	10.6
	16 N-Nitroso-di-n-propylamine++	70	2.180	2.180	(1.143)	26990	10.0000	10.3
	18 Hexachloroethane	117	2.231	2.231	(1.170)	9072	10.0000	9.76
$	19 Nitrobenzene-d5	82	2.271	2.271	(0.838)	37112	10.0000	9.82
	20 Nitrobenzene	77	2.283	2.283	(0.842)	38999	10.0000	9.84
	21 Isophorone	82	2.433	2.433	(0.897)	57675	10.0000	10.3
	22 2-Nitrophenol +	139	2.484	2.484	(0.916)	6015	10.0000	9.53
	23 2,4-Dimethyphenol	107	2.546	2.546	(0.939)	22903	10.0000	10.3
	24 bis(-2-Chloroethoxy)methane	93	2.572	2.572	(0.949)	29728	10.0000	9.61
	25 Benzoic Acid	122	2.637	2.637	(0.973)	2794	10.0000	43.4
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.982)	10344	10.0000	10.2
	27 1,2,4-Trichlorobenzene	180	2.677	2.677	(0.987)	13196	10.0000	9.61
*	28 Naphthalene-d8	136	2.711	2.711	(1.000)	133577	40.0000	
	29 Naphthalene	128	2.722	2.722	(1.004)	36835	10.0000	9.73
	30 4-Chloroaniline	127	2.774	2.774	(1.023)	14523	10.0000	8.15
	31 Hexachlorobutadiene +	225	2.802	2.802	(1.033)	10827	10.0000	9.85
	32 4-Chloro-3-Methylphenol +	107	3.111	3.111	(1.148)	16815	10.0000	10.3
	33 2-Methylnaphthalene	142	3.145	3.145	(1.160)	23221	10.0000	9.44
	145 1-Methylnapthalene	142	3.205	3.205	(1.182)	21914	10.0000	9.95
	34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	4853	10.0000	10.4
	35 2,4,6-Trichlorophenol +	196	3.338	3.338	(0.883)	6824	10.0000	9.23
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	7431	10.0000	9.50
$	37 2-Fluorobiphenyl	172	3.372	3.372	(0.892)	27121	10.0000	9.99
	38 2-Chloronaphthalene	162	3.441	3.441	(0.910)	22252	10.0000	9.75
	39 2-Nitroaniline	138	3.523	3.523	(0.932)	5917	10.0000	9.48
	40 Dimethylphthalate	163	3.625	3.625	(0.959)	21226	10.0000	9.63(M)
	41 2,6-Dinitrotoluene	165	3.662	3.662	(0.968)	4551	10.0000	9.28
	42 Acenaphthylene	152	3.693	3.693	(0.977)	30061	10.0000	10.4
	43 3-Nitroaniline	138	3.775	3.775	(0.998)	4766	10.0000	10.1
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	74103	40.0000	
	45 Acenaphthene +	153	3.798	3.798	(1.004)	20353	10.0000	9.75
	46 2,4-Dinitrophenol ++	184	3.844	3.844	(1.016)	315	10.0000	28.9
	49 4-Nitrophenol ++	109	3.954	3.954	(1.046)	4052	10.0000	7.93
	47 Dibenzofuran	168	3.906	3.906	(1.033)	30359	10.0000	9.80
	48 2,4-Dinitrotoluene	165	3.909	3.909	(1.034)	5386	10.0000	8.70
	50 Diethylphthalate	149	4.056	4.056	(1.073)	21126	10.0000	9.73
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	12038	10.0000	9.84
	51 Fluorene	166	4.116	4.116	(1.089)	24191	10.0000	9.87
	53 4-Nitroaniline	138	4.150	4.150	(1.098)	4304	10.0000	9.45
	54 4,6-Dinitro-o-cresol	198	4.159	4.159	(0.887)	2677	10.0000	14.5
	55 N-nitrosodiphenylamine (1)+	169	4.196	4.196	(0.895)	15219	10.0000	10.1
	56 Azobenzene	77	4.213	4.213	(0.898)	58902	10.0000	10.2
$	57 2,4,6-Tribromophenol	332	4.272	4.272	(1.130)	2884	10.0000	7.90

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	6535	10.0000	10.4
	59 Hexachlorobenzene	284	4.454	4.454	(0.950)	7422	10.0000	9.57
	60 Pentachlorophenol +	266	4.593	4.593	(0.979)	1608	10.0000	4.43
*	61 Phenanthrene-d10	188	4.689	4.689	(1.000)	108341	40.0000	
	62 Phenanthrene	178	4.704	4.704	(1.003)	31042	10.0000	9.90
	63 Anthracene	178	4.732	4.732	(1.009)	29976	10.0000	9.71
	64 Carbazole	167	4.845	4.845	(1.033)	26114	10.0000	9.18
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	25771	10.0000	8.31
	67 Fluoranthene +	202	5.450	5.450	(1.162)	29587	10.0000	8.43
	68 Benzidine	184	5.555	5.555	(0.854)	1635	10.0000	23.1
	69 Pyrene	202	5.600	5.600	(0.861)	30401	10.0000	10.8
$	70 Terphenyl-d14	244	5.717	5.717	(0.879)	20625	10.0000	10.8
	71 Butylbenzylphthalate	149	6.086	6.086	(0.936)	11378	10.0000	9.88
	73 3,3'-Dichlorobenzidine	252	6.492	6.492	(0.998)	10780	10.0000	10.8
	72 Benzo(a)anthracene	228	6.495	6.495	(0.999)	30038	10.0000	9.84
*	74 Chrysene-d12	240	6.503	6.503	(1.000)	95589	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.546	6.546	(1.007)	15228	10.0000	9.52
	75 Chrysene	228	6.523	6.523	(1.003)	28967	10.0000	9.81
	77 Di-n-octylphthalate +	149	7.065	7.065	(1.086)	27744	10.0000	9.48
	78 Benzo(b)fluoranthene	252	7.340	7.340	(0.962)	29984	10.0000	9.07
	79 Benzo(k)fluoranthene	252	7.360	7.360	(0.965)	31247	10.0000	9.17
	80 Benzo(a)pyrene +	252	7.584	7.584	(0.994)	27645	10.0000	9.35
*	81 Perylene-d12	264	7.630	7.630	(1.000)	107337	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.390	8.390	(1.100)	41380	10.0000	8.87
	83 Dibenzo(a,h)anthracene	278	8.402	8.402	(1.101)	33476	10.0000	8.81
	84 Benzo(g,h,i)perylene	276	8.581	8.581	(1.125)	36582	10.0000	10.5
M	66 Total Methylphenol	108				39872	20.0000	21.2
	91 Acetophenone	105	2.178	2.178	(1.141)	30971	10.0000	10.2
	155 Benzaldehyde	77	1.604	1.604	(0.841)	27032	10.0000	31.8
	156 Caprolactam	113	2.975	2.975	(1.097)	4350	10.0000	9.76
	157 Biphenyl	154	3.432	3.432	(1.266)	27007	10.0000	9.92
	158 Atrazine	200	4.530	4.530	(0.966)	3825	10.0000	22.4
	180 1,4-Dioxane	88	0.466	0.466	(0.244)	5183	10.0000	9.22

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9416.d

Date : 22-JUN-2005 11:41

Client ID: STD010

Sample Info: 1204*4-24-3

Volume Injected (uL): 1.0

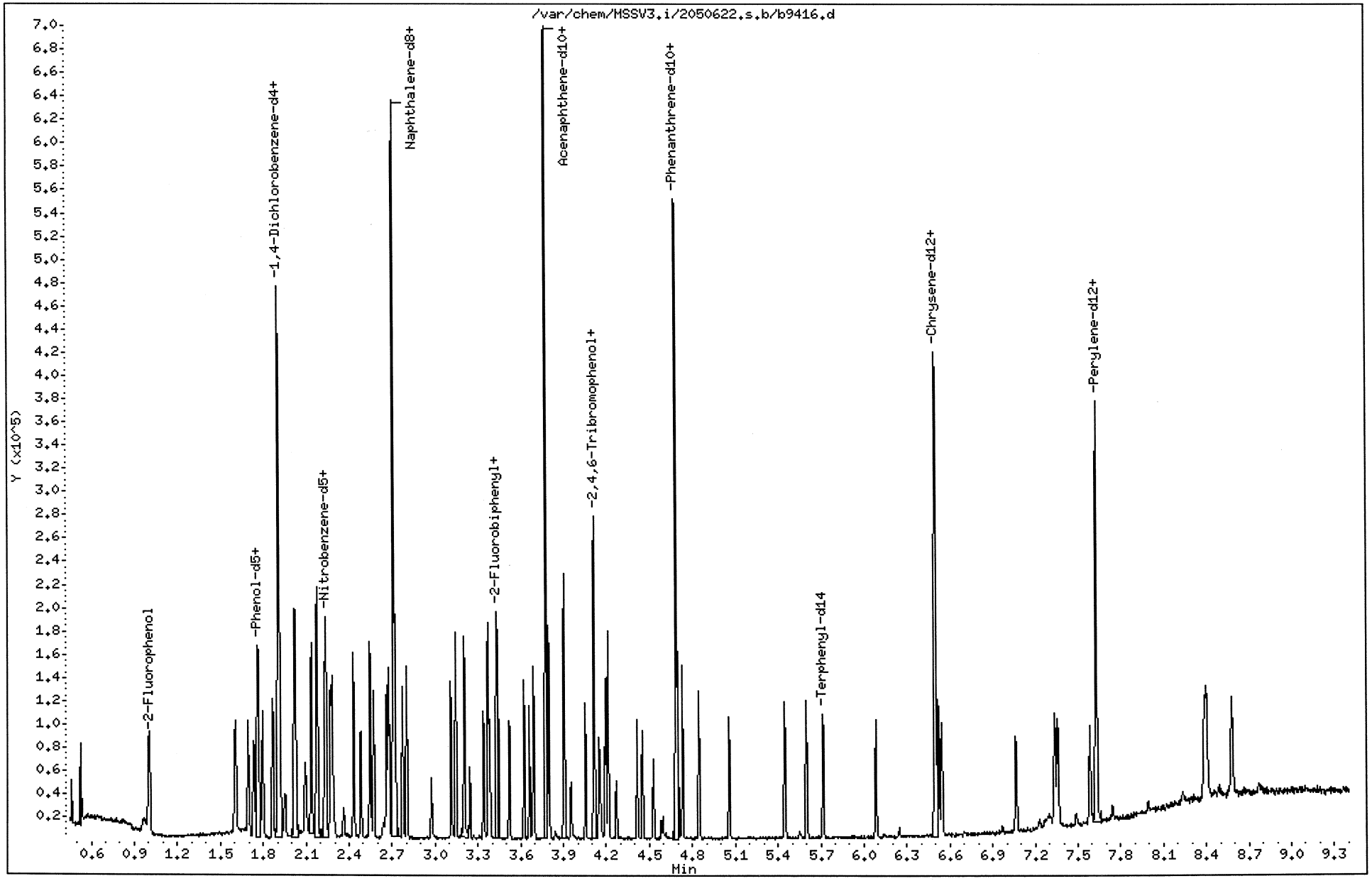
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3

Column diameter: 0.25

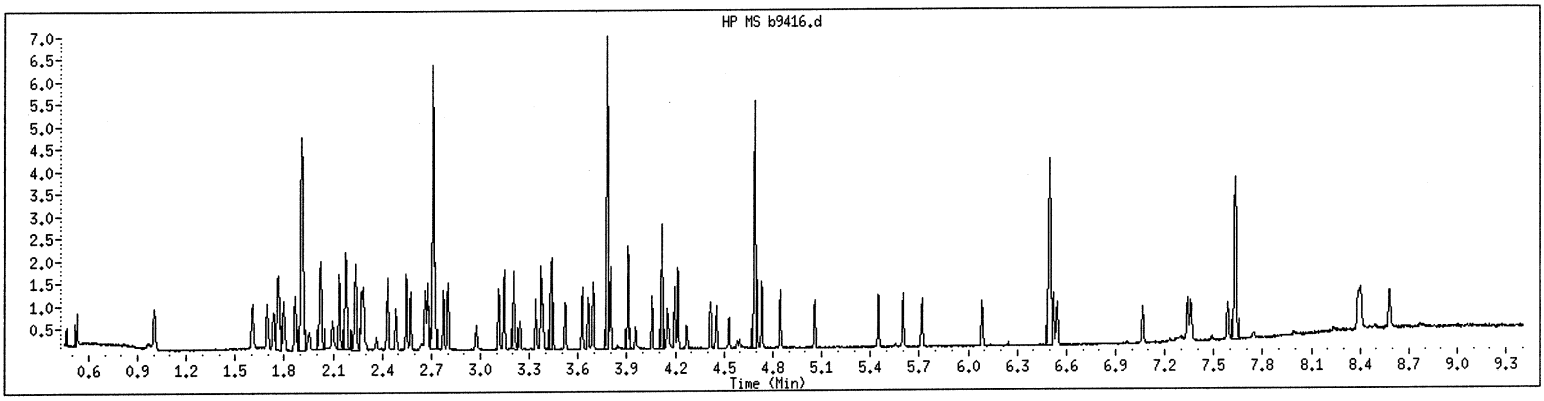
000309



Data file : /var/chem/MSSV3.i/2050622.s.b/b9416.d
Report Date: 06/22/2005 15:13

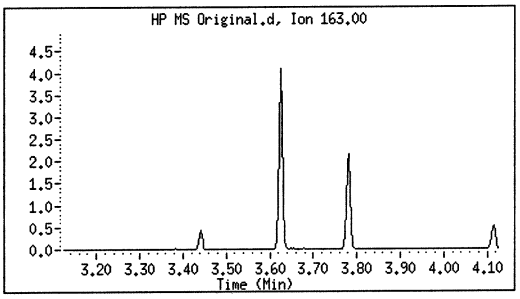
MANUAL INTEGRATION GRAPHIC REPORT

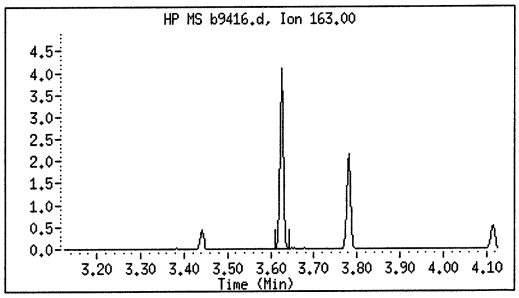
Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 22-JUN-2005 11:41	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1204*4-24-3		
Misc Info	: STD010*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original | Final

40 Dimethylphthalate CAS#: 131-11-3





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9417.d
Lab Smp Id: 1206 Client Smp ID: STD080
Inj Date : 22-JUN-2005 11:56
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1206*4-24-4
Misc Info : STD080*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:13 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 11:56 Cal File: b9417.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

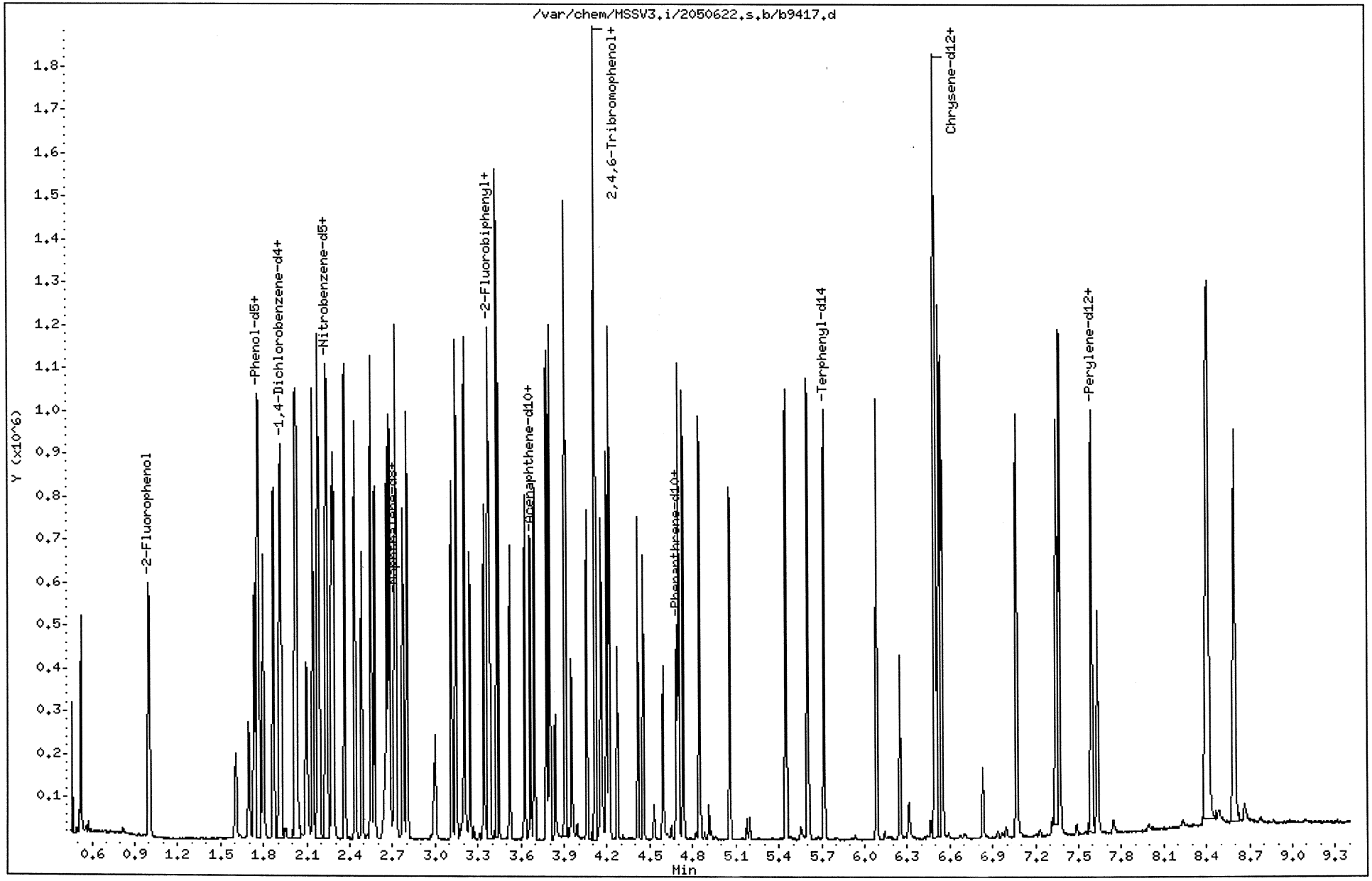
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.526	0.526	(0.276)	87542	80.0000	83.9
1 n-Nitrosodimethylamine	42	0.517	0.517	(0.271)	17922	80.0000	82.6
$ 3 2-Fluorophenol	112	1.000	1.000	(0.524)	131965	80.0000	84.5
$ 4 Phenol-d5	99	1.757	1.757	(0.921)	199791	80.0000	81.1
5 Aniline	93	1.698	1.698	(0.890)	96308	80.0000	54.8
6 Phenol +	94	1.766	1.766	(0.926)	225519	80.0000	78.7
7 bis(-2-Chloroethyl)Ether	63	1.738	1.738	(0.911)	139534	80.0000	78.8
8 2-Chlorophenol	128	1.800	1.800	(0.943)	88453	80.0000	79.4
9 1,3-Dichlorobenzene	146	1.871	1.871	(0.981)	110614	80.0000	81.4
* 10 1,4-Dichlorobenzene-d4	152	1.911	1.911	(1.000)	34284	40.0000	
11 1,4-Dichlorobenzene +	146	1.922	1.922	(1.007)	109409	80.0000	80.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.033	2.033	(1.065)	94760	80.0000	83.2
	13 1,2-Dichlorobenzene	146	2.021	2.021	(1.060)	101675	80.0000	79.1
	15 2-Methylphenol	108	2.143	2.143	(1.123)	131317	80.0000	80.1
	14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.100)	80009	80.0000	80.1
	17 3- & 4-Methylphenol	108	2.243	2.243	(1.176)	130793	80.0000	79.9
	16 N-Nitroso-di-n-propylamine++	70	2.192	2.192	(1.149)	181520	80.0000	80.9
	18 Hexachloroethane	117	2.234	2.234	(1.171)	63023	80.0000	79.5
$	19 Nitrobenzene-d5	82	2.277	2.277	(0.839)	256439	80.0000	80.3
	20 Nitrobenzene	77	2.288	2.288	(0.843)	266659	80.0000	79.6
	21 Isophorone	82	2.439	2.439	(0.899)	386491	80.0000	81.8
	22 2-Nitrophenol +	139	2.487	2.487	(0.916)	43345	80.0000	81.3
	23 2,4-Dimethyphenol	107	2.549	2.549	(0.939)	158021	80.0000	83.7
	24 bis(-2-Chloroethoxy)methane	93	2.578	2.578	(0.950)	210486	80.0000	80.5
	25 Benzoic Acid	122	2.654	2.654	(0.978)	29516	80.0000	74.4
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.981)	68961	80.0000	80.5
	27 1,2,4-Trichlorobenzene	180	2.680	2.680	(0.987)	91719	80.0000	79.0
*	28 Naphthalene-d8	136	2.714	2.714	(1.000)	112949	40.0000	
	29 Naphthalene	128	2.725	2.725	(1.004)	248314	80.0000	77.5
	30 4-Chloroaniline	127	2.776	2.776	(1.023)	66016	80.0000	79.4
	31 Hexachlorobutadiene +	225	2.805	2.805	(1.033)	73588	80.0000	79.2
	32 4-Chloro-3-Methylphenol +	107	3.114	3.114	(1.147)	112066	80.0000	81.1
	33 2-Methylnaphthalene	142	3.148	3.148	(1.160)	158221	80.0000	76.0
	145 1-Methylnapthalene	142	3.208	3.208	(1.182)	143549	80.0000	77.1
	34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	54935	80.0000	77.8
	35 2,4,6-Trichlorophenol +	196	3.341	3.341	(0.884)	52082	80.0000	82.0
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	54589	80.0000	81.3
$	37 2-Fluorobiphenyl	172	3.375	3.375	(0.893)	177319	80.0000	76.1
	38 2-Chloronaphthalene	162	3.443	3.443	(0.911)	150378	80.0000	76.8
	39 2-Nitroaniline	138	3.526	3.526	(0.932)	42116	80.0000	78.6
	40 Dimethylphthalate	163	3.628	3.628	(0.959)	144705	80.0000	76.5
	41 2,6-Dinitrotoluene	165	3.668	3.668	(0.970)	33223	80.0000	78.9
	42 Acenaphthylene	152	3.696	3.696	(0.977)	170056	80.0000	68.8
	43 3-Nitroaniline	138	3.778	3.778	(0.999)	31829	80.0000	78.8
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	63610	40.0000	
	45 Acenaphthene +	153	3.801	3.801	(1.005)	137212	80.0000	76.6
	46 2,4-Dinitrophenol ++	184	3.838	3.838	(1.015)	16894	80.0000	75.5
	49 4-Nitrophenol ++	109	3.951	3.951	(1.045)	35799	80.0000	81.6
	47 Dibenzofuran	168	3.909	3.909	(1.034)	198271	80.0000	74.6
	48 2,4-Dinitrotoluene	165	3.912	3.912	(1.035)	42746	80.0000	80.4
	50 Diethylphthalate	149	4.059	4.059	(1.074)	139939	80.0000	75.1
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	82087	80.0000	78.2
	51 Fluorene	166	4.116	4.116	(1.089)	162552	80.0000	77.3
	53 4-Nitroaniline	138	4.159	4.159	(1.100)	30650	80.0000	78.4
	54 4,6-Dinitro-o-cresol	198	4.164	4.164	(0.888)	28427	80.0000	78.4
	55 N-nitrosodiphenylamine (1)+	169	4.198	4.198	(0.895)	106626	80.0000	80.8
	56 Azobenzene	77	4.218	4.218	(0.900)	404714	80.0000	80.2
$	57 2,4,6-Tribromophenol	332	4.275	4.275	(1.131)	24785	80.0000	79.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	42001	80.0000	76.2
	59 Hexachlorobenzene	284	4.454	4.454	(0.950)	51394	80.0000	75.9
	60 Pentachlorophenol +	266	4.596	4.596	(0.980)	24191	80.0000	76.2
*	61 Phenanthrene-d10	188	4.689	4.689	(1.000)	94689	40.0000	
	62 Phenanthrene	178	4.704	4.704	(1.003)	215114	80.0000	78.5
	63 Anthracene	178	4.735	4.735	(1.010)	209793	80.0000	77.8
	64 Carbazole	167	4.848	4.848	(1.034)	203658	80.0000	81.9
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	225456	80.0000	83.2
	67 Fluoranthene +	202	5.453	5.453	(1.163)	262170	80.0000	85.5
	68 Benzidine	184	5.555	5.555	(0.853)	6617	80.0000	66.3
	69 Pyrene	202	5.606	5.606	(0.861)	277405	80.0000	70.1
$	70 Terphenyl-d14	244	5.720	5.720	(0.879)	198329	80.0000	73.6
	71 Butylbenzylphthalate	149	6.089	6.089	(0.935)	126896	80.0000	78.2
	73 3,3'-Dichlorobenzidine	252	6.495	6.495	(0.998)	118536	80.0000	84.5
	72 Benzo(a)anthracene	228	6.500	6.500	(0.999)	333718	80.0000	77.6
*	74 Chrysene-d12	240	6.509	6.509	(1.000)	134738	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.546	6.546	(1.006)	177446	80.0000	78.7
	75 Chrysene	228	6.529	6.529	(1.003)	322007	80.0000	77.4
	77 Di-n-octylphthalate +	149	7.071	7.071	(1.086)	333653	80.0000	80.9
	78 Benzo(b)fluoranthene	252	7.349	7.349	(0.962)	370631	80.0000	78.1
	79 Benzo(k)fluoranthene	252	7.369	7.369	(0.965)	403328	80.0000	82.4
	80 Benzo(a)pyrene +	252	7.593	7.593	(0.994)	336057	80.0000	79.1
*	81 Perylene-d12	264	7.635	7.635	(1.000)	154180	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.402	8.402	(1.100)	529285	80.0000	78.9
	83 Dibenzo(a,h)anthracene	278	8.416	8.416	(1.102)	438196	80.0000	80.3
	84 Benzo(g,h,i)perylene	276	8.598	8.598	(1.126)	450655	80.0000	77.3
M	66 Total Methylphenol	108				262110	160.000	163
	91 Acetophenone	105	2.180	2.180	(1.143)	215227	80.0000	83.4
	155 Benzaldehyde	77	1.607	1.607	(0.842)	55346	80.0000	76.4
	156 Caprolactam	113	3.003	3.003	(1.107)	31646	80.0000	84.0
	157 Biphenyl	154	3.435	3.435	(1.266)	188923	80.0000	82.1
	158 Atrazine	200	4.530	4.530	(0.966)	3450	80.0000	23.1
	180 1,4-Dioxane	88	0.463	0.463	(0.243)	37703	80.0000	78.6

Data File: /var/chem/MSSV3.i/2050622.s.b/b9417.d
Date : 22-JUN-2005 11:56
Client ID: STD080
Sample Info: 1206*4-24-4
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

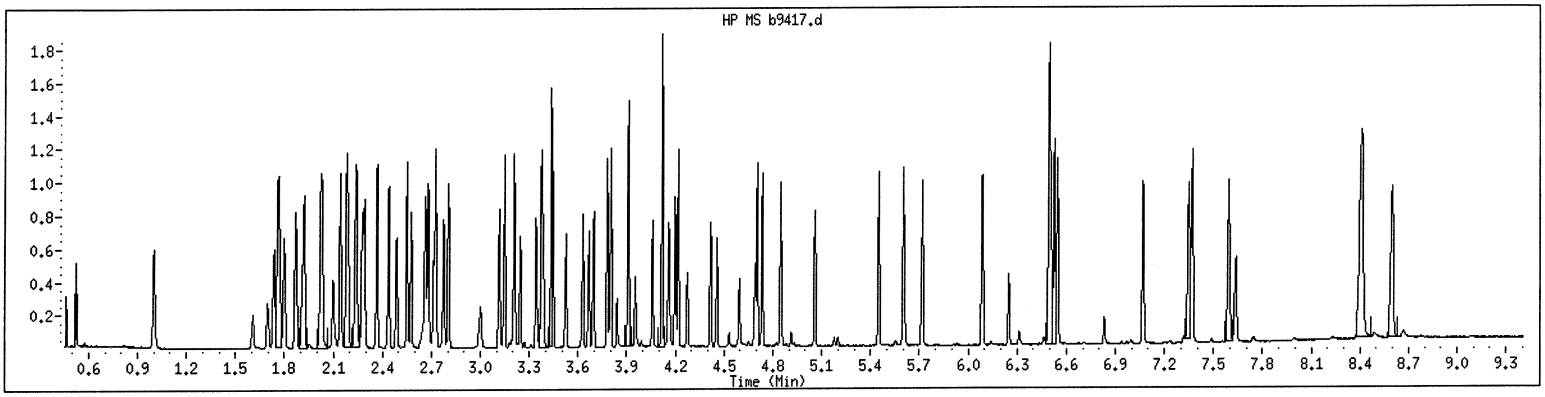
Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25



Data file : /var/chem/MSSV3.i/2050622.s.b/b9417.d
Report Date: 06/22/2005 15:13

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 22-JUN-2005 11:56	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1206*4-24-4		
Misc Info	: STD080*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9418.d
Lab Smp Id: 1207 Client Smp ID: STD120
Inj Date : 22-JUN-2005 12:12
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1207*4-24-5
Misc Info : STD120*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:13 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 12:12 Cal File: b9418.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.528	0.528	(0.277)	132831	120.000	112
1 n-Nitrosodimethylamine	42	0.520	0.520	(0.272)	29810	120.000	121
$ 3 2-Fluorophenol	112	1.002	1.002	(0.525)	214822	120.000	121
$ 4 Phenol-d5	99	1.760	1.760	(0.921)	328844	120.000	118
5 Aniline	93	1.698	1.698	(0.889)	132694	120.000	74.5
6 Phenol +	94	1.769	1.769	(0.926)	375680	120.000	116
7 bis(-2-Chloroethyl)Ether	63	1.737	1.737	(0.909)	233895	120.000	116
8 2-Chlorophenol	128	1.800	1.800	(0.942)	143977	120.000	114
9 1,3-Dichlorobenzene	146	1.871	1.871	(0.979)	183525	120.000	119
* 10 1,4-Dichlorobenzene-d4	152	1.911	1.911	(1.000)	38864	40.0000	
11 1,4-Dichlorobenzene +	146	1.922	1.922	(1.006)	184764	120.000	119

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.035	2.035	(1.065)	160045	120.000	124
	13 1,2-Dichlorobenzene	146	2.021	2.021	(1.058)	170972	120.000	117
	15 2-Methylphenol	108	2.146	2.146	(1.123)	213678	120.000	115
	14 Bis(2-chloroisopropyl)ether	45	2.101	2.101	(1.100)	133315	120.000	118
	17 3- & 4-Methylphenol	108	2.243	2.243	(1.174)	220148	120.000	119
	16 N-Nitroso-di-n-propylamine++	70	2.197	2.197	(1.150)	303826	120.000	120
	18 Hexachloroethane	117	2.234	2.234	(1.169)	109372	120.000	122
$	19 Nitrobenzene-d5	82	2.280	2.280	(0.840)	435340	120.000	122
	20 Nitrobenzene	77	2.291	2.291	(0.844)	448801	120.000	120
	21 Isophorone	82	2.439	2.439	(0.899)	649932	120.000	123
	22 2-Nitrophenol +	139	2.487	2.487	(0.916)	74323	120.000	125
	23 2,4-Dimethyphenol	107	2.552	2.552	(0.940)	263051	120.000	125
	24 bis(-2-Chloroethoxy)methane	93	2.578	2.578	(0.950)	359063	120.000	123
	25 Benzoic Acid	122	2.668	2.668	(0.983)	63821	120.000	121
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.981)	117549	120.000	123
	27 1,2,4-Trichlorobenzene	180	2.680	2.680	(0.987)	153996	120.000	119
*	28 Naphthalene-d8	136	2.714	2.714	(1.000)	125965	40.0000	
	29 Naphthalene	128	2.725	2.725	(1.004)	432805	120.000	121
	30 4-Chloroaniline	127	2.776	2.776	(1.023)	94419	120.000	120
	31 Hexachlorobutadiene +	225	2.805	2.805	(1.033)	126114	120.000	122
	32 4-Chloro-3-Methylphenol +	107	3.114	3.114	(1.147)	189853	120.000	123
	33 2-Methylnaphthalene	142	3.148	3.148	(1.160)	268863	120.000	116
	145 1-Methylnapthalene	142	3.208	3.208	(1.182)	245394	120.000	118
	34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	104140	120.000	124
	35 2,4,6-Trichlorophenol +	196	3.341	3.341	(0.884)	91203	120.000	131
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	91308	120.000	124
$	37 2-Fluorobiphenyl	172	3.375	3.375	(0.893)	305794	120.000	120
	38 2-Chloronaphthalene	162	3.446	3.446	(0.911)	259036	120.000	121
	39 2-Nitroaniline	138	3.526	3.526	(0.932)	73073	120.000	125
	40 Dimethylphthalate	163	3.631	3.631	(0.960)	243466	120.000	118
	41 2,6-Dinitrotoluene	165	3.668	3.668	(0.970)	56883	120.000	123
	42 Acenaphthylene	152	3.696	3.696	(0.977)	297489	120.000	110
	43 3-Nitroaniline	138	3.781	3.781	(1.000)	52261	120.000	118
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	69606	40.0000	
	45 Acenaphthene +	153	3.801	3.801	(1.005)	239220	120.000	122
	46 2,4-Dinitrophenol ++	184	3.838	3.838	(1.015)	33086	120.000	118
	49 4-Nitrophenol ++	109	3.951	3.951	(1.045)	61091	120.000	127
	47 Dibenzofuran	168	3.909	3.909	(1.034)	348223	120.000	120
	48 2,4-Dinitrotoluene	165	3.912	3.912	(1.035)	72269	120.000	124
	50 Diethylphthalate	149	4.062	4.062	(1.074)	242256	120.000	119
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	140942	120.000	123
	51 Fluorene	166	4.116	4.116	(1.089)	280571	120.000	122
	53 4-Nitroaniline	138	4.161	4.161	(1.101)	56063	120.000	131
	54 4,6-Dinitro-o-cresol	198	4.167	4.167	(0.889)	51038	120.000	119
	55 N-nitrosodiphenylamine (1)+	169	4.201	4.201	(0.896)	179922	120.000	120
	56 Azobenzene	77	4.218	4.218	(0.900)	693453	120.000	121
$	57 2,4,6-Tribromophenol	332	4.275	4.275	(1.131)	45146	120.000	132

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	74246	120.000	119
	59 Hexachlorobenzene	284	4.457	4.457	(0.950)	92417	120.000	120
	60 Pentachlorophenol +	266	4.593	4.593	(0.979)	46879	120.000	130
*	61 Phenanthrene-d10	188	4.689	4.689	(1.000)	107635	40.0000	
	62 Phenanthrene	178	4.703	4.703	(1.003)	373601	120.000	120
	63 Anthracene	178	4.735	4.735	(1.010)	372364	120.000	121
	64 Carbazole	167	4.851	4.851	(1.034)	358255	120.000	127
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	407133	120.000	132
	67 Fluoranthene +	202	5.453	5.453	(1.163)	459947	120.000	132
	68 Benzidine	184	5.555	5.555	(0.853)	9992	120.000	99.6
	69 Pyrene	202	5.603	5.603	(0.861)	486600	120.000	122
$	70 Terphenyl-d14	244	5.720	5.720	(0.879)	340774	120.000	126
	71 Butylbenzylphthalate	149	6.086	6.086	(0.935)	207621	120.000	127
	73 3,3'-Dichlorobenzidine	252	6.497	6.497	(0.998)	167856	120.000	119
	72 Benzo(a)anthracene	228	6.500	6.500	(0.999)	533078	120.000	123
*	74 Chrysene-d12	240	6.509	6.509	(1.000)	135411	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.545	6.545	(1.006)	286271	120.000	126
	75 Chrysene	228	6.531	6.531	(1.003)	510880	120.000	122
	77 Di-n-octylphthalate +	149	7.068	7.068	(1.086)	521638	120.000	126
	78 Benzo(b)fluoranthene	252	7.352	7.352	(0.963)	621042	120.000	129
	79 Benzo(k)fluoranthene	252	7.371	7.371	(0.966)	603077	120.000	122
	80 Benzo(a)pyrene +	252	7.596	7.596	(0.995)	538608	120.000	125
*	81 Perylene-d12	264	7.633	7.633	(1.000)	155899	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.405	8.405	(1.101)	867074	120.000	128
	83 Dibenzo(a,h)anthracene	278	8.422	8.422	(1.103)	719191	120.000	130
	84 Benzo(g,h,i)perylene	276	8.603	8.603	(1.127)	756859	120.000	121
M	66 Total Methylphenol	108				433826	240.000	238(A)
	91 Acetophenone	105	2.183	2.183	(1.143)	363203	120.000	124
	155 Benzaldehyde	77	1.607	1.607	(0.841)	53201	120.000	64.8
	156 Caprolactam	113	3.012	3.012	(1.110)	51710	120.000	123
	157 Biphenyl	154	3.435	3.435	(1.266)	318749	120.000	124
	158 Atrazine	200	4.533	4.533	(0.967)	6859	120.000	40.4
	180 1,4-Dioxane	88	0.469	0.469	(0.245)	65132	120.000	120

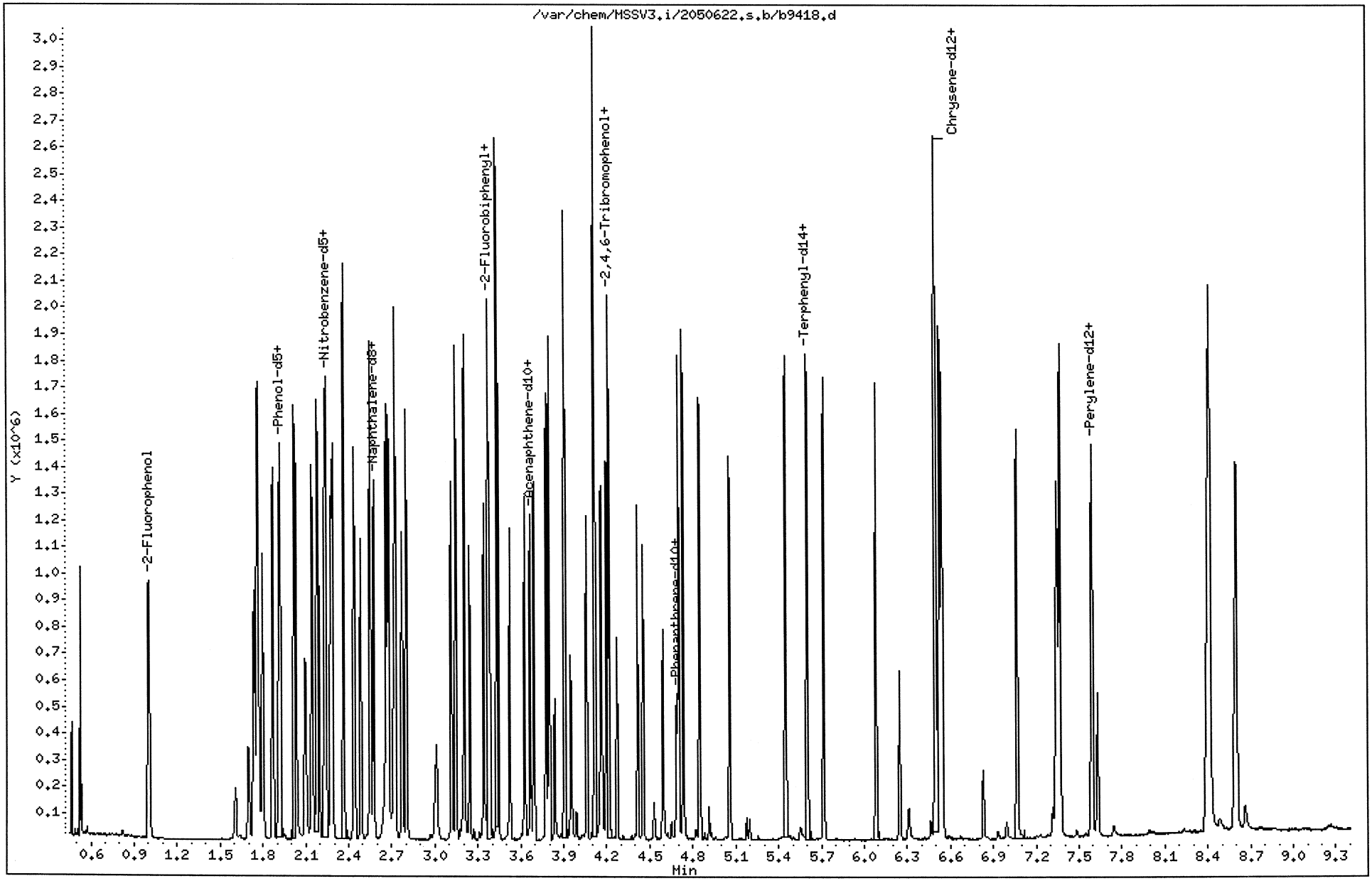
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9418.d
Date : 22-JUN-2005 12:12
Client ID: STD120
Sample Info: 1207*4-24-5
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25

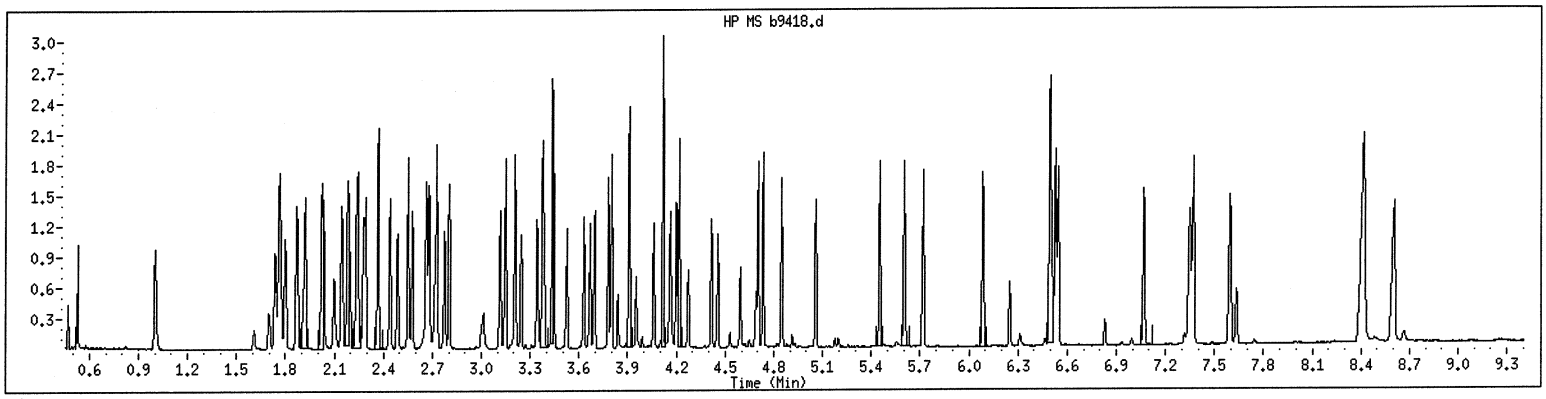
000319



Data file : /var/chem/MSSV3.i/2050622.s.b/b9418.d
Report Date: 06/22/2005 15:13

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1207	SampleType	: CALIB_7
Injection Date	: 22-JUN-2005 12:12	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1207*4-24-5		
Misc Info	: STD120*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9419.d
Lab Smp Id: 1208 Client Smp ID: STD160
Inj Date : 22-JUN-2005 12:28
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1208*4-24-6
Misc Info : STD160*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:13 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 12:28 Cal File: b9419.d
Als bottle: 6 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.531	0.531	(0.278)	182610	160.000	170
1 n-Nitrosodimethylamine	42	0.523	0.523	(0.274)	36012	160.000	161
$ 3 2-Fluorophenol	112	1.002	1.002	(0.525)	258508	160.000	161
$ 4 Phenol-d5	99	1.760	1.760	(0.921)	394603	160.000	156
5 Aniline	93	1.701	1.701	(0.890)	142801	160.000	98.1
6 Phenol +	94	1.769	1.769	(0.926)	450814	160.000	153
7 bis(-2-Chloroethyl)Ether	63	1.740	1.740	(0.911)	285499	160.000	157
8 2-Chlorophenol	128	1.800	1.800	(0.942)	175874	160.000	153
9 1,3-Dichlorobenzene	146	1.871	1.871	(0.979)	230492	160.000	165
* 10 1,4-Dichlorobenzene-d4	152	1.911	1.911	(1.000)	35278	40.0000	
11 1,4-Dichlorobenzene +	146	1.922	1.922	(1.006)	230143	160.000	164

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.036	2.036	(1.065)	185299	160.000	158
	13 1,2-Dichlorobenzene	146	2.021	2.021	(1.058)	212795	160.000	161
	15 2-Methylphenol	108	2.146	2.146	(1.123)	256313	160.000	152
	14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.098)	162310	160.000	158
	17 3- & 4-Methylphenol	108	2.243	2.243	(1.174)	265831	160.000	158
	16 N-Nitroso-di-n-propylamine++	70	2.200	2.200	(1.151)	365892	160.000	159
	18 Hexachloroethane	117	2.234	2.234	(1.169)	130890	160.000	160
$	19 Nitrobenzene-d5	82	2.280	2.280	(0.840)	521827	160.000	164
	20 Nitrobenzene	77	2.294	2.294	(0.845)	537068	160.000	161
	21 Isophorone	82	2.441	2.441	(0.900)	742278	160.000	158
	22 2-Nitrophenol +	139	2.487	2.487	(0.916)	88847	160.000	168
	23 2,4-Dimethyphenol	107	2.552	2.552	(0.940)	303380	160.000	162
	24 bis(-2-Chloroethoxy)methane	93	2.578	2.578	(0.950)	420418	160.000	162
	25 Benzoic Acid	122	2.677	2.677	(0.986)	77588	160.000	166
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.981)	133961	160.000	157
	27 1,2,4-Trichlorobenzene	180	2.683	2.683	(0.988)	186856	160.000	162
*	28 Naphthalene-d8	136	2.714	2.714	(1.000)	112230	40.0000	
	29 Naphthalene	128	2.728	2.728	(1.005)	512929	160.000	161
	30 4-Chloroaniline	127	2.776	2.776	(1.023)	95904	160.000	150
	31 Hexachlorobutadiene +	225	2.805	2.805	(1.033)	149275	160.000	162
	32 4-Chloro-3-Methylphenol +	107	3.117	3.117	(1.148)	215753	160.000	157
	33 2-Methylnaphthalene	142	3.148	3.148	(1.160)	324184	160.000	157
	145 1-Methylnapthalene	142	3.208	3.208	(1.182)	293625	160.000	159
	34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	122053	160.000	157
	35 2,4,6-Trichlorophenol +	196	3.344	3.344	(0.884)	104046	160.000	171
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	106439	160.000	166
$	37 2-Fluorobiphenyl	172	3.375	3.375	(0.893)	358233	160.000	161
	38 2-Chloronaphthalene	162	3.446	3.446	(0.911)	300282	160.000	160
	39 2-Nitroaniline	138	3.526	3.526	(0.932)	85247	160.000	166
	40 Dimethylphthalate	163	3.631	3.631	(0.960)	291389	160.000	161
	41 2,6-Dinitrotoluene	165	3.668	3.668	(0.970)	66786	160.000	166
	42 Acenaphthylene	152	3.696	3.696	(0.977)	342486	160.000	145
	43 3-Nitroaniline	138	3.781	3.781	(1.000)	64847	160.000	168
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	60811	40.0000	
	45 Acenaphthene +	153	3.804	3.804	(1.006)	276611	160.000	161
	46 2,4-Dinitrophenol ++	184	3.838	3.838	(1.015)	42268	160.000	168
	49 4-Nitrophenol ++	109	3.951	3.951	(1.045)	75624	160.000	180
	47 Dibenzofuran	168	3.909	3.909	(1.034)	398584	160.000	157
	48 2,4-Dinitrotoluene	165	3.915	3.915	(1.035)	90277	160.000	178
	50 Diethylphthalate	149	4.062	4.062	(1.074)	292743	160.000	164
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	161333	160.000	161
	51 Fluorene	166	4.119	4.119	(1.089)	328540	160.000	163
	53 4-Nitroaniline	138	4.164	4.164	(1.101)	68282	160.000	183
	54 4,6-Dinitro-o-cresol	198	4.170	4.170	(0.889)	62295	160.000	159
	55 N-nitrosodiphenylamine (1)+	169	4.201	4.201	(0.896)	213074	160.000	159
	56 Azobenzene	77	4.218	4.218	(0.900)	807791	160.000	158
$	57 2,4,6-Tribromophenol	332	4.275	4.275	(1.131)	54329	160.000	181

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	91888	160.000	165
	59 Hexachlorobenzene	284	4.457	4.457	(0.950)	110663	160.000	161
	60 Pentachlorophenol +	266	4.593	4.593	(0.979)	58970	160.000	183
*	61 Phenanthrene-d10	188	4.689	4.689	(1.000)	95981	40.0000	
	62 Phenanthrene	178	4.704	4.704	(1.003)	454172	160.000	164
	63 Anthracene	178	4.735	4.735	(1.010)	453373	160.000	166
	64 Carbazole	167	4.851	4.851	(1.034)	441219	160.000	175
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	491963	160.000	179
	67 Fluoranthene +	202	5.453	5.453	(1.163)	561524	160.000	181
	68 Benzidine	184	5.555	5.555	(0.853)	16688	160.000	176
	69 Pyrene	202	5.606	5.606	(0.861)	576643	160.000	153
$	70 Terphenyl-d14	244	5.720	5.720	(0.879)	415746	160.000	162
	71 Butylbenzylphthalate	149	6.089	6.089	(0.935)	257480	160.000	167
	73 3,3'-Dichlorobenzidine	252	6.497	6.497	(0.998)	201848	160.000	151
	72 Benzo(a)anthracene	228	6.500	6.500	(0.999)	653175	160.000	160
*	74 Chrysene-d12	240	6.509	6.509	(1.000)	128215	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.546	6.546	(1.006)	354067	160.000	165
	75 Chrysene	228	6.531	6.531	(1.003)	635186	160.000	160
	77 Di-n-octylphthalate +	149	7.071	7.071	(1.086)	637549	160.000	162
	78 Benzo(b)fluoranthene	252	7.354	7.354	(0.963)	832022	160.000	178
	79 Benzo(k)fluoranthene	252	7.377	7.377	(0.966)	799925	160.000	166(H)
	80 Benzo(a)pyrene +	252	7.599	7.599	(0.995)	719028	160.000	172
*	81 Perylene-d12	264	7.635	7.635	(1.000)	151761	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.407	8.407	(1.101)	1216453	160.000	184
	83 Dibenzo(a,h)anthracene	278	8.427	8.427	(1.104)	1032410	160.000	192
	84 Benzo(g,h,i)perylene	276	8.615	8.615	(1.128)	1081239	160.000	165
M	66 Total Methylphenol	108				522144	320.000	316(A)
	91 Acetophenone	105	2.183	2.183	(1.143)	427601	160.000	161
	155 Benzaldehyde	77	1.610	1.610	(0.843)	43894	160.000	58.9
	156 Caprolactam	113	3.018	3.018	(1.112)	62359	160.000	167
	157 Biphenyl	154	3.435	3.435	(1.266)	369496	160.000	162
	158 Atrazine	200	4.533	4.533	(0.967)	9907	160.000	65.5
	180 1,4-Dioxane	88	0.469	0.469	(0.245)	79303	160.000	161

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9419.d

Date : 22-JUN-2005 12:28

Client ID: STD160

Sample Info: 1208*4-24-6

Volume Injected (uL): 1.0

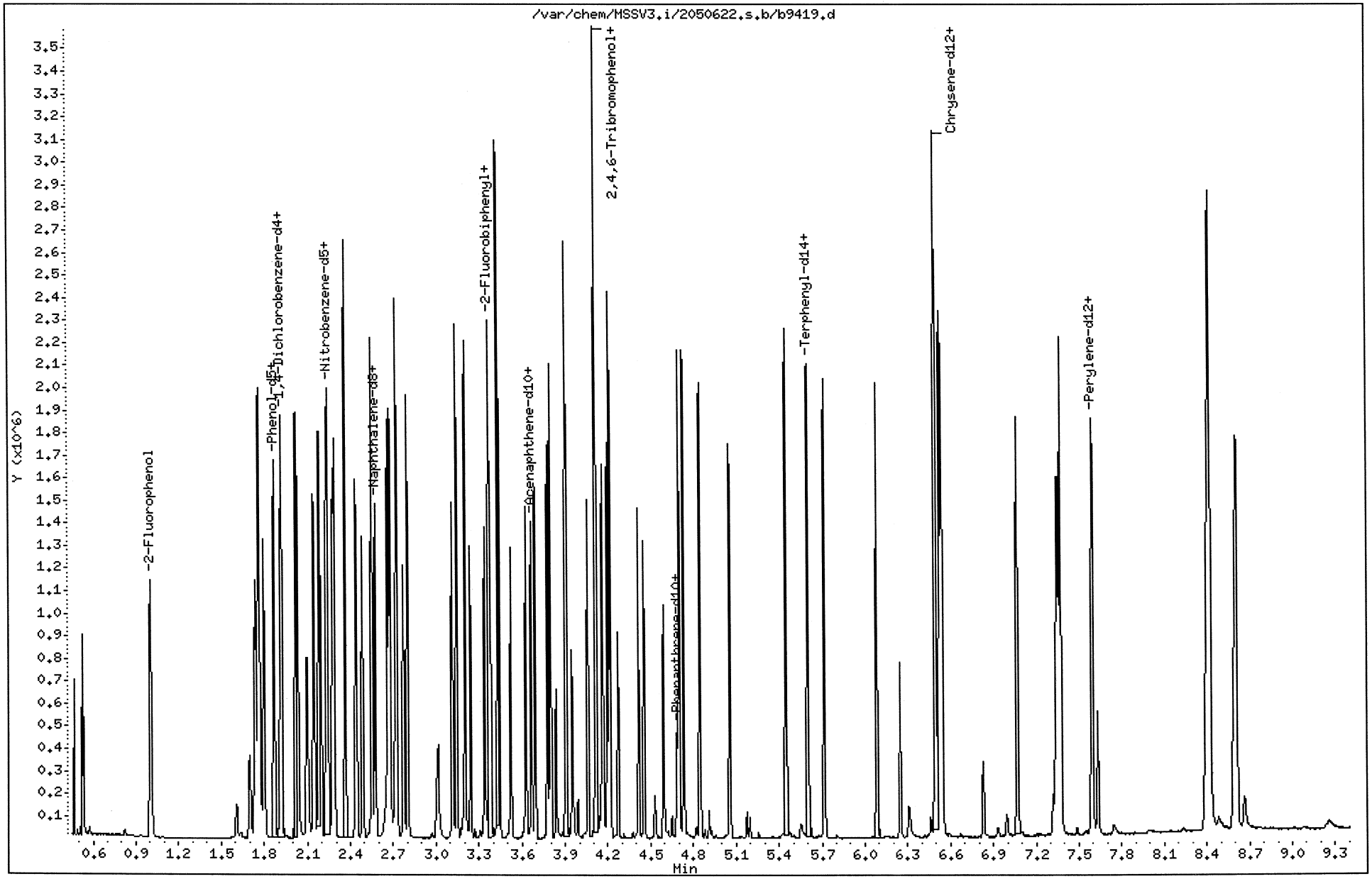
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3

Column diameter: 0.25

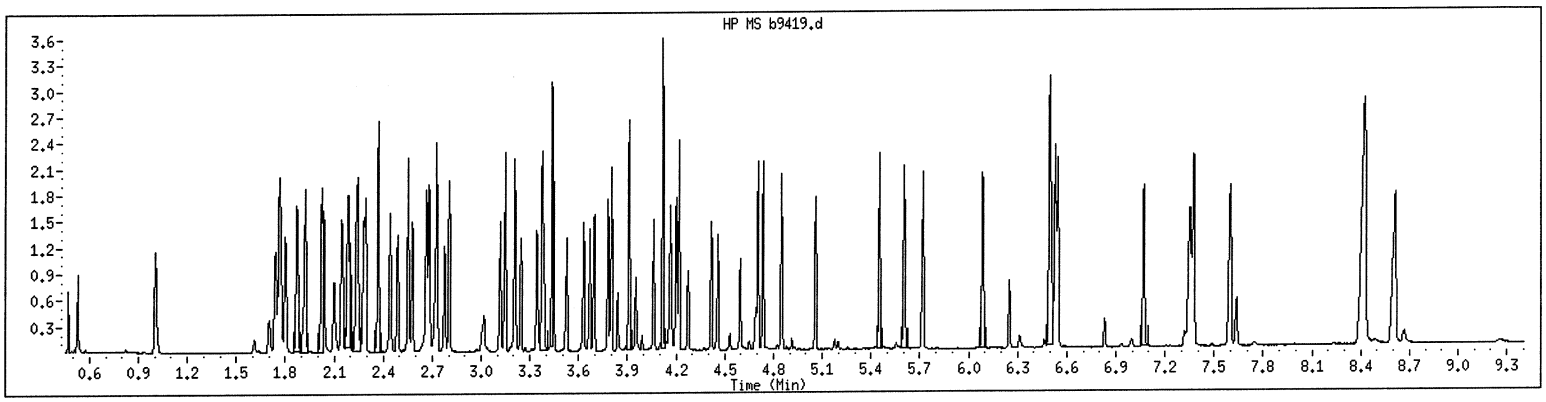
000324



Data file : /var/chem/MSSV3.i/2050622.s.b/b9419.d
Report Date: 06/22/2005 15:13

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1208	SampleType	: CALIB_8
Injection Date	: 22-JUN-2005 12:28	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1208*4-24-6		
Misc Info	: STD160*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9420.d
Lab Smp Id: 1209 Client Smp ID: STD200
Inj Date : 22-JUN-2005 12:44
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1209*4-24-7
Misc Info : STD200*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:14 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 12:44 Cal File: b9420.d
Als bottle: 7 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.551	0.551	(0.287)	258200	200.000	191(H)
1 n-Nitrosodimethylamine	42	0.543	0.543	(0.282)	51873	200.000	185(H)
$ 3 2-Fluorophenol	112	1.048	1.048	(0.545)	314040	200.000	155(H)
$ 4 Phenol-d5	99	1.769	1.769	(0.920)	602911	200.000	189
5 Aniline	93	1.712	1.712	(0.891)	126510	200.000	56.1(H)
6 Phenol +	94	1.777	1.777	(0.925)	655475	200.000	177
7 bis(-2-Chloroethyl)Ether	63	1.749	1.749	(0.910)	472005	200.000	206(A)
8 2-Chlorophenol	128	1.811	1.811	(0.942)	256802	200.000	178
9 1,3-Dichlorobenzene	146	1.879	1.879	(0.978)	359960	200.000	205(A)
* 10 1,4-Dichlorobenzene-d4	152	1.916	1.916	(1.000)	44372	40.0000	
11 1,4-Dichlorobenzene +	146	1.931	1.931	(1.004)	356389	200.000	202(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.044	2.044	(1.063)	264717	200.000	180
	13 1,2-Dichlorobenzene	146	2.030	2.030	(1.056)	335379	200.000	202(A)
	15 2-Methylphenol	108	2.155	2.155	(1.121)	366897	200.000	173
	14 Bis(2-chloroisopropyl)ether	45	2.107	2.107	(1.096)	246553	200.000	191
	17 3- & 4-Methylphenol	108	2.251	2.251	(1.171)	372426	200.000	176
	16 N-Nitroso-di-n-propylamine++	70	2.206	2.206	(1.148)	518087	200.000	178
	18 Hexachloroethane	117	2.240	2.240	(1.165)	206876	200.000	202(A)
$	19 Nitrobenzene-d5	82	2.288	2.288	(0.841)	750000	200.000	197
	20 Nitrobenzene	77	2.300	2.300	(0.846)	781376	200.000	196
	21 Isophorone	82	2.450	2.450	(0.901)	1038935	200.000	185
	22 2-Nitrophenol +	139	2.493	2.493	(0.916)	126195	200.000	199
	23 2,4-Dimethyphenol	107	2.558	2.558	(0.940)	417955	200.000	186
	24 bis(-2-Chloroethoxy)methane	93	2.583	2.583	(0.950)	598280	200.000	192
	25 Benzoic Acid	122	2.688	2.688	(0.989)	107730	200.000	196
	26 2,4-Dichlorophenol +	162	2.668	2.668	(0.981)	182946	200.000	179
	27 1,2,4-Trichlorobenzene	180	2.686	2.686	(0.987)	276244	200.000	200
*	28 Naphthalene-d8	136	2.720	2.720	(1.000)	134576	40.0000	
	29 Naphthalene	128	2.734	2.734	(1.005)	747490	200.000	196
	30 4-Chloroaniline	127	2.779	2.779	(1.022)	108046	200.000	135
	31 Hexachlorobutadiene +	225	2.808	2.808	(1.032)	230460	200.000	208(A)
	32 4-Chloro-3-Methylphenol +	107	3.120	3.120	(1.147)	287507	200.000	175
	33 2-Methylnaphthalene	142	3.151	3.151	(1.159)	448006	200.000	181
	145 1-Methylnapthalene	142	3.211	3.211	(1.181)	415249	200.000	187
	34 Hexachlorocyclopentadiene ++	237	3.247	3.247	(0.858)	182614	200.000	200(A)
	35 2,4,6-Trichlorophenol +	196	3.347	3.347	(0.884)	137926	200.000	213(A)
	36 2,4,5-Trichlorphenol	196	3.387	3.387	(0.895)	144241	200.000	210(A)
$	37 2-Fluorobiphenyl	172	3.378	3.378	(0.893)	500103	200.000	210(A)
	38 2-Chloronaphthalene	162	3.449	3.449	(0.911)	417778	200.000	209(A)
	39 2-Nitroaniline	138	3.528	3.528	(0.932)	107925	200.000	197
	40 Dimethylphthalate	163	3.633	3.633	(0.960)	366248	200.000	189
	41 2,6-Dinitrotoluene	165	3.673	3.673	(0.971)	85339	200.000	198
	42 Acenaphthylene	152	3.699	3.699	(0.978)	476025	200.000	188
	43 3-Nitroaniline	138	3.787	3.787	(1.001)	71992	200.000	174
*	44 Acenaphthene-d10	164	3.784	3.784	(1.000)	64993	40.0000	
	45 Acenaphthene +	153	3.807	3.807	(1.006)	366868	200.000	200(A)
	46 2,4-Dinitrophenol ++	184	3.844	3.844	(1.016)	52428	200.000	195
	49 4-Nitrophenol ++	109	3.954	3.954	(1.045)	89826	200.000	201(A)
	47 Dibenzofuran	168	3.912	3.912	(1.034)	524398	200.000	193
	48 2,4-Dinitrotoluene	165	3.917	3.917	(1.035)	107821	200.000	199
	50 Diethylphthalate	149	4.065	4.065	(1.074)	351583	200.000	185
	52 4-Chlorophenyl-phenylether	204	4.122	4.122	(1.089)	208541	200.000	194
	51 Fluorene	166	4.122	4.122	(1.089)	416876	200.000	194
	53 4-Nitroaniline	138	4.170	4.170	(1.102)	80195	200.000	201(A)
	54 4,6-Dinitro-o-cresol	198	4.173	4.173	(0.889)	78383	200.000	202(A)
	55 N-nitrosodiphenylamine (1)+	169	4.204	4.204	(0.896)	266488	200.000	203(A)
	56 Azobenzene	77	4.221	4.221	(0.900)	1015020	200.000	203(A)
$	57 2,4,6-Tribromophenol	332	4.278	4.278	(1.131)	65798	200.000	205(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	58 4-Bromophenyl-phenylether	248	4.420	4.420	(0.942)	109351	200.000	200(A)
	59 Hexachlorobenzene	284	4.459	4.459	(0.950)	138449	200.000	206(A)
	60 Pentachlorophenol +	266	4.596	4.596	(0.979)	72553	200.000	230(A)
*	61 Phenanthrene-d10	188	4.692	4.692	(1.000)	93954	40.0000	
	62 Phenanthrene	178	4.709	4.709	(1.004)	535321	200.000	197
	63 Anthracene	178	4.740	4.740	(1.010)	524258	200.000	196
	64 Carbazole	167	4.854	4.854	(1.034)	529736	200.000	215(A)
	65 Di-n-butylphthalate	149	5.061	5.061	(1.079)	565601	200.000	210(A)
	67 Fluoranthene +	202	5.456	5.456	(1.163)	672763	200.000	221(A)
	68 Benzidine	184	5.561	5.561	(0.854)	17144	200.000	172
	69 Pyrene	202	5.609	5.609	(0.861)	719382	200.000	182
$	70 Terphenyl-d14	244	5.722	5.722	(0.879)	513575	200.000	191
	71 Butylbenzylphthalate	149	6.091	6.091	(0.935)	321661	200.000	199
	73 3,3'-Dichlorobenzidine	252	6.503	6.503	(0.999)	236187	200.000	169
	72 Benzo(a)anthracene	228	6.506	6.506	(0.999)	816602	200.000	190
*	74 Chrysene-d12	240	6.511	6.511	(1.000)	134384	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.548	6.548	(1.006)	445842	200.000	198
	75 Chrysene	228	6.537	6.537	(1.004)	807146	200.000	194
	77 Di-n-octylphthalate +	149	7.076	7.076	(1.087)	816611	200.000	199
	78 Benzo(b)fluoranthene	252	7.357	7.357	(0.963)	1039137	200.000	213(A)
	79 Benzo(k)fluoranthene	252	7.383	7.383	(0.967)	1003343	200.000	199(H)
	80 Benzo(a)pyrene +	252	7.604	7.604	(0.996)	917644	200.000	210(A)
*	81 Perylene-d12	264	7.638	7.638	(1.000)	158699	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.416	8.416	(1.102)	1589963	200.000	230(A)
	83 Dibenzo(a,h)anthracene	278	8.436	8.436	(1.104)	1314694	200.000	234(A)
	84 Benzo(g,h,i)perylene	276	8.623	8.623	(1.129)	1431057	200.000	197
M	66 Total Methylphenol	108				739323	400.000	356(A)
	91 Acetophenone	105	2.192	2.192	(1.140)	608879	200.000	182
	155 Benzaldehyde	77	1.621	1.621	(0.843)	49367	200.000	52.7
	156 Caprolactam	113	3.029	3.029	(1.114)	78486	200.000	175
	157 Biphenyl	154	3.440	3.440	(1.265)	515915	200.000	188
	158 Atrazine	200	4.536	4.536	(0.967)	13073	200.000	88.3
	180 1,4-Dioxane	88	0.475	0.475	(0.247)	130754	200.000	211(AM)

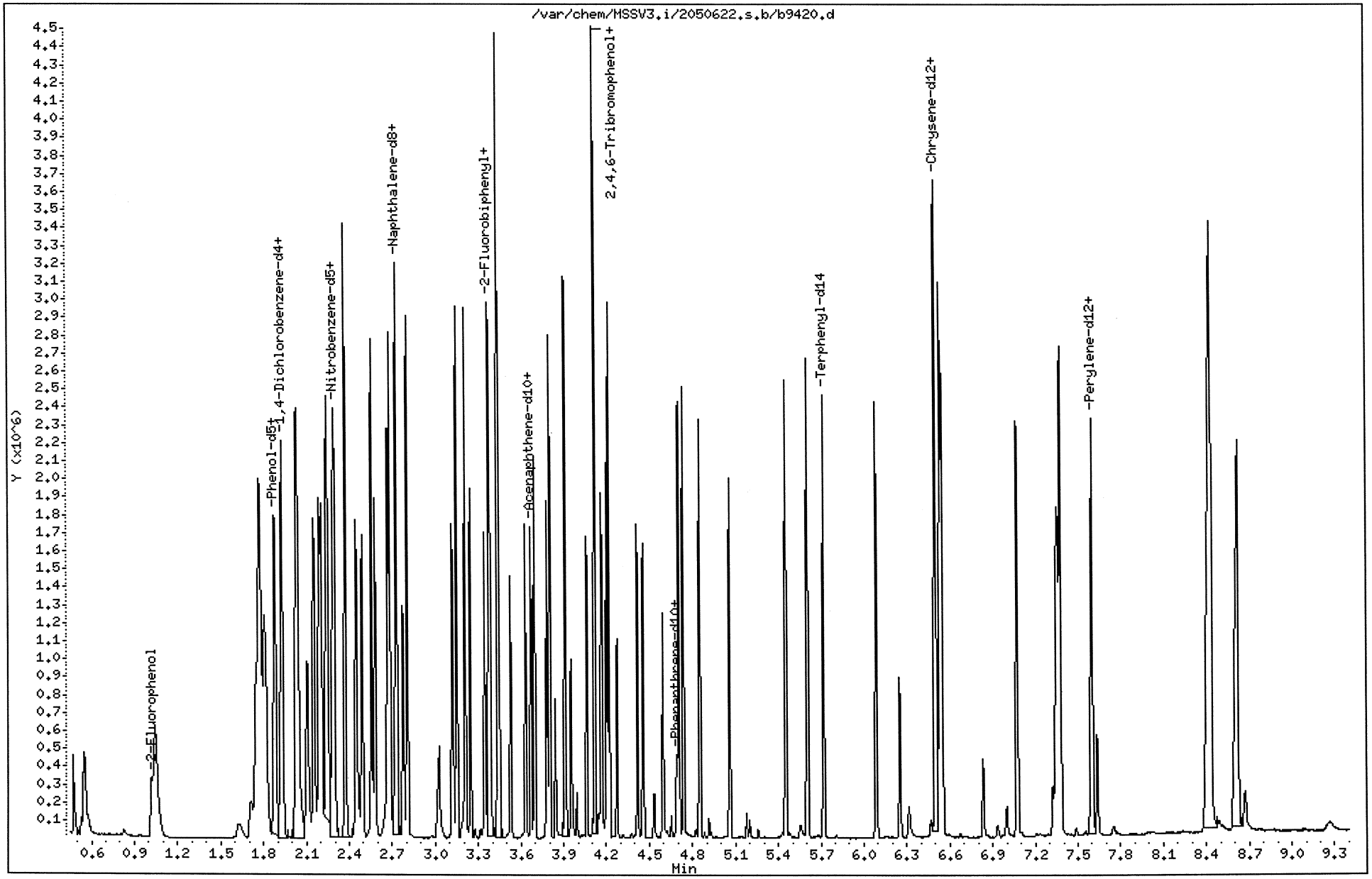
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

000329

Data File: /var/chem/MSSV3.i/2050622.s.b/b9420.d
Date : 22-JUN-2005 12:44
Client ID: STD200
Sample Info: 1209x4-24-7
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

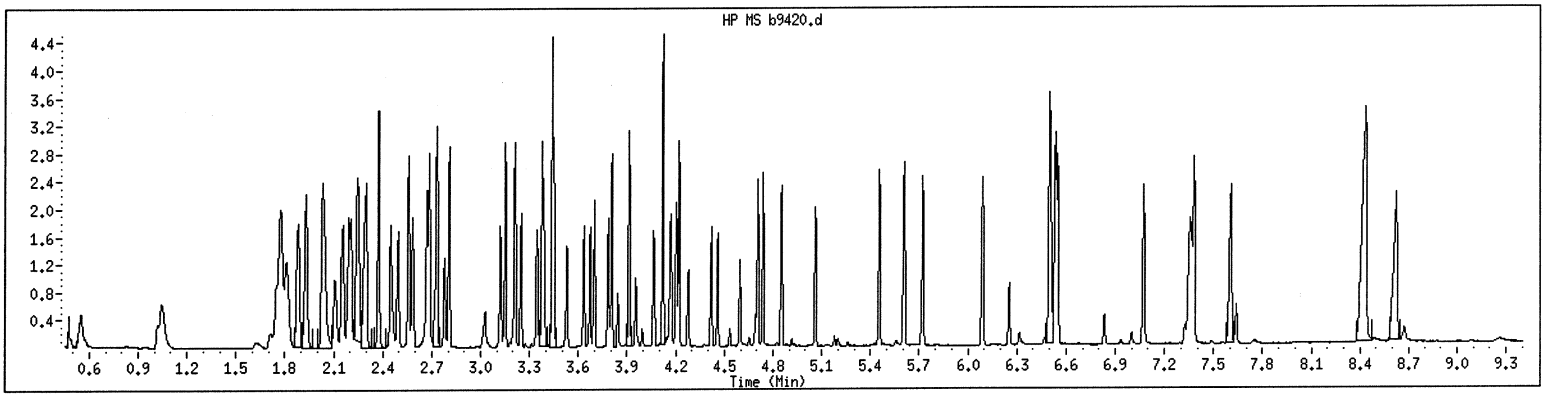
Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25



Data file : /var/chem/MSSV3.i/2050622.s.b/b9420.d
Report Date: 06/22/2005 15:14

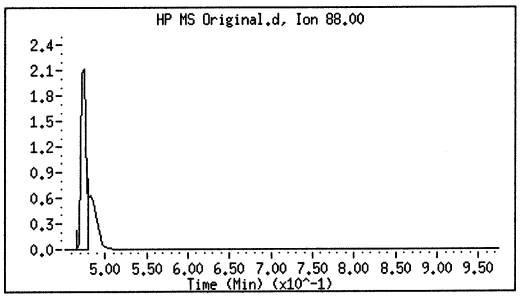
MANUAL INTEGRATION GRAPHIC REPORT

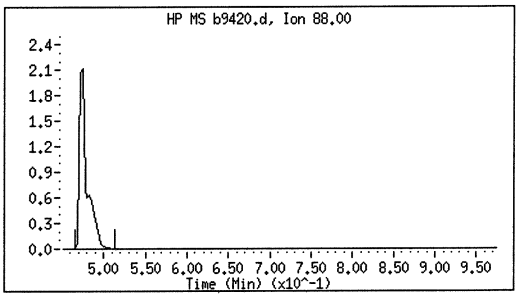
Lab ID	: 1209	SampleType	: CALIB_9
Injection Date	: 22-JUN-2005 12:44	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1209*4-24-7		
Misc Info	: STD200*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original | Final

180 1,4-Dioxane CAS#: 123-91-1





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9421.d
Lab Smp Id: 1203 Client Smp ID: STD002
Inj Date : 22-JUN-2005 13:00
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1203*4-24-8
Misc Info : STD002*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:14 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 13:00 Cal File: b9421.d
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.534	0.534	(0.280)	2990	2.00000	1.79
1 n-Nitrosodimethylamine	42	0.517	0.517	(0.271)	668	2.00000	1.93
$ 3 2-Fluorophenol	112	1.002	1.002	(0.525)	5603	2.00000	2.25
$ 4 Phenol-d5	99	1.757	1.757	(0.921)	8976	2.00000	2.28
5 Aniline	93	1.698	1.698	(0.890)	10987	2.00000	1.99
6 Phenol +	94	1.769	1.769	(0.927)	10217	2.00000	2.23
7 bis(-2-Chloroethyl)Ether	63	1.737	1.737	(0.911)	6029	2.00000	2.13
8 2-Chlorophenol	128	1.800	1.800	(0.943)	3760	2.00000	2.11
9 1,3-Dichlorobenzene	146	1.868	1.868	(0.979)	4272	2.00000	1.97
* 10 1,4-Dichlorobenzene-d4	152	1.908	1.908	(1.000)	54784	40.0000	
11 1,4-Dichlorobenzene +	146	1.919	1.919	(1.006)	4339	2.00000	1.99

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
12 Benzyl alcohol	108	2.027	2.027	(1.062)	3803	2.00000	2.09
13 1,2-Dichlorobenzene	146	2.021	2.021	(1.060)	4172	2.00000	2.03
15 2-Methylphenol	108	2.138	2.138	(1.121)	5705	2.00000	2.18
14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.100)	3279	2.00000	2.06
17 3- & 4-Methylphenol	108	2.240	2.240	(1.174)	5333	2.00000	2.04
16 N-Nitroso-di-n-propylamine++	70	2.183	2.183	(1.144)	7454	2.00000	2.08
18 Hexachloroethane	117	2.234	2.234	(1.171)	2654	2.00000	2.09
$ 19 Nitrobenzene-d5	82	2.274	2.274	(0.839)	10543	2.00000	2.05
20 Nitrobenzene	77	2.285	2.285	(0.843)	10940	2.00000	2.03
21 Isophorone	82	2.433	2.433	(0.897)	16248	2.00000	2.14
22 2-Nitrophenol +	139	2.484	2.484	(0.916)	1609	2.00000	1.88
23 2,4-Dimethyphenol	107	2.546	2.546	(0.939)	6180	2.00000	2.04
24 bis(-2-Chloroethoxy)methane	93	2.575	2.575	(0.950)	8262	2.00000	1.96
25 Benzoic Acid	122	2.646	2.646	(0.976)	313	2.00000	41.5
26 2,4-Dichlorophenol +	162	2.663	2.663	(0.982)	2937	2.00000	2.13
27 1,2,4-Trichlorobenzene	180	2.680	2.680	(0.988)	3595	2.00000	1.92
* 28 Naphthalene-d8	136	2.711	2.711	(1.000)	181628	40.0000	
29 Naphthalene	128	2.725	2.725	(1.005)	10473	2.00000	2.03
30 4-Chloroaniline	127	2.773	2.773	(1.023)	3912	2.00000	2.41
31 Hexachlorobutadiene +	225	2.805	2.805	(1.035)	2996	2.00000	2.00
32 4-Chloro-3-Methylphenol +	107	3.111	3.111	(1.148)	4622	2.00000	2.08
33 2-Methylnaphthalene	142	3.148	3.148	(1.161)	6748	2.00000	2.02
145 1-Methylnapthalene	142	3.205	3.205	(1.182)	6088	2.00000	2.03
34 Hexachlorocyclopentadiene ++	237	3.245	3.245	(0.858)	774	2.00000	5.15(M)
35 2,4,6-Trichlorophenol +	196	3.338	3.338	(0.883)	1948	2.00000	2.02
36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	1916	2.00000	1.88
$ 37 2-Fluorobiphenyl	172	3.372	3.372	(0.892)	7227	2.00000	2.05
38 2-Chloronaphthalene	162	3.440	3.440	(0.910)	5398	2.00000	1.82(M)
39 2-Nitroaniline	138	3.523	3.523	(0.932)	1743	2.00000	2.15
40 Dimethylphthalate	163	3.625	3.625	(0.959)	6142	2.00000	2.14(M)
41 2,6-Dinitrotoluene	165	3.662	3.662	(0.968)	1455	2.00000	2.28
42 Acenaphthylene	152	3.693	3.693	(0.977)	8716	2.00000	2.33
43 3-Nitroaniline	138	3.775	3.775	(0.998)	1250	2.00000	2.04
* 44 Acenaphthene-d10	164	3.781	3.781	(1.000)	96446	40.0000	
45 Acenaphthene +	153	3.801	3.801	(1.005)	5571	2.00000	2.05
49 4-Nitrophenol ++	109	3.951	3.951	(1.045)	944	2.00000	1.42
47 Dibenzofuran	168	3.903	3.903	(1.032)	8546	2.00000	2.12
48 2,4-Dinitrotoluene	165	3.909	3.909	(1.034)	1541	2.00000	1.91
50 Diethylphthalate	149	4.056	4.056	(1.073)	6014	2.00000	2.13
52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	3450	2.00000	2.17
51 Fluorene	166	4.113	4.113	(1.088)	6668	2.00000	2.09
53 4-Nitroaniline	138	4.150	4.150	(1.098)	1208	2.00000	2.04
54 4,6-Dinitro-o-cresol	198	4.161	4.161	(0.888)	314	2.00000	9.25
55 N-nitrosodiphenylamine (1)+	169	4.195	4.195	(0.895)	4233	2.00000	2.01
56 Azobenzene	77	4.212	4.212	(0.899)	15958	2.00000	1.98
$ 57 2,4,6-Tribromophenol	332	4.272	4.272	(1.130)	779	2.00000	1.64
58 4-Bromophenyl-phenylether	248	4.414	4.414	(0.942)	1546	2.00000	1.76

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	59 Hexachlorobenzene	284	4.454	4.454	(0.950)	2040	2.00000	1.88
	60 Pentachlorophenol +	266	4.593	4.593	(0.980)	110	2.00000	0.217(a)
*	61 Phenanthrene-d10	188	4.686	4.686	(1.000)	151407	40.0000	
	62 Phenanthrene	178	4.701	4.701	(1.003)	8813	2.00000	2.01
	63 Anthracene	178	4.732	4.732	(1.010)	8252	2.00000	1.91
	64 Carbazole	167	4.845	4.845	(1.034)	7404	2.00000	1.86
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	7365	2.00000	1.70
	67 Fluoranthene +	202	5.447	5.447	(1.162)	8470	2.00000	1.73
	68 Benzidine	184	5.555	5.555	(0.855)	1690	2.00000	18.1
	69 Pyrene	202	5.600	5.600	(0.862)	8144	2.00000	2.20
$	70 Terphenyl-d14	244	5.717	5.717	(0.879)	6042	2.00000	2.40
	71 Butylbenzylphthalate	149	6.086	6.086	(0.936)	3043	2.00000	2.00
	73 3,3'-Dichlorobenzidine	252	6.492	6.492	(0.999)	3012	2.00000	2.29
	72 Benzo(a)anthracene	228	6.494	6.494	(0.999)	8339	2.00000	2.07
*	74 Chrysene-d12	240	6.500	6.500	(1.000)	126061	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.545	6.545	(1.007)	4311	2.00000	2.04
	75 Chrysene	228	6.523	6.523	(1.003)	7659	2.00000	1.97
	77 Di-n-octylphthalate +	149	7.065	7.065	(1.087)	7174	2.00000	1.86
	78 Benzo(b)fluoranthene	252	7.337	7.337	(0.962)	7911	2.00000	1.74
	79 Benzo(k)fluoranthene	252	7.357	7.357	(0.964)	7648	2.00000	1.63
	80 Benzo(a)pyrene +	252	7.584	7.584	(0.994)	7260	2.00000	1.79
*	81 Perylene-d12	264	7.630	7.630	(1.000)	147536	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.385	8.385	(1.099)	12273	2.00000	1.91
	83 Dibenzo(a,h)anthracene	278	8.402	8.402	(1.101)	8939	2.00000	1.71
	84 Benzo(g,h,i)perylene	276	8.580	8.580	(1.125)	10791	2.00000	2.99
M	66 Total Methylphenol	108				11038	4.00000	4.30
	91 Acetophenone	105	2.177	2.177	(1.141)	8338	2.00000	2.02
	155 Benzaldehyde	77	1.607	1.607	(0.842)	4170	2.00000	3.60
	156 Caprolactam	113	2.972	2.972	(1.096)	1143	2.00000	1.89
	157 Biphenyl	154	3.432	3.432	(1.266)	7358	2.00000	1.99
	158 Atrazine	200	4.530	4.530	(0.967)	1453	2.00000	6.09
	180 1,4-Dioxane	88	0.466	0.466	(0.244)	1506	2.00000	1.96

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9421.d

Date : 22-JUN-2005 13:00

Client ID: STD002

Sample Info: 1203*4-24-8

Volume Injected (uL): 1.0

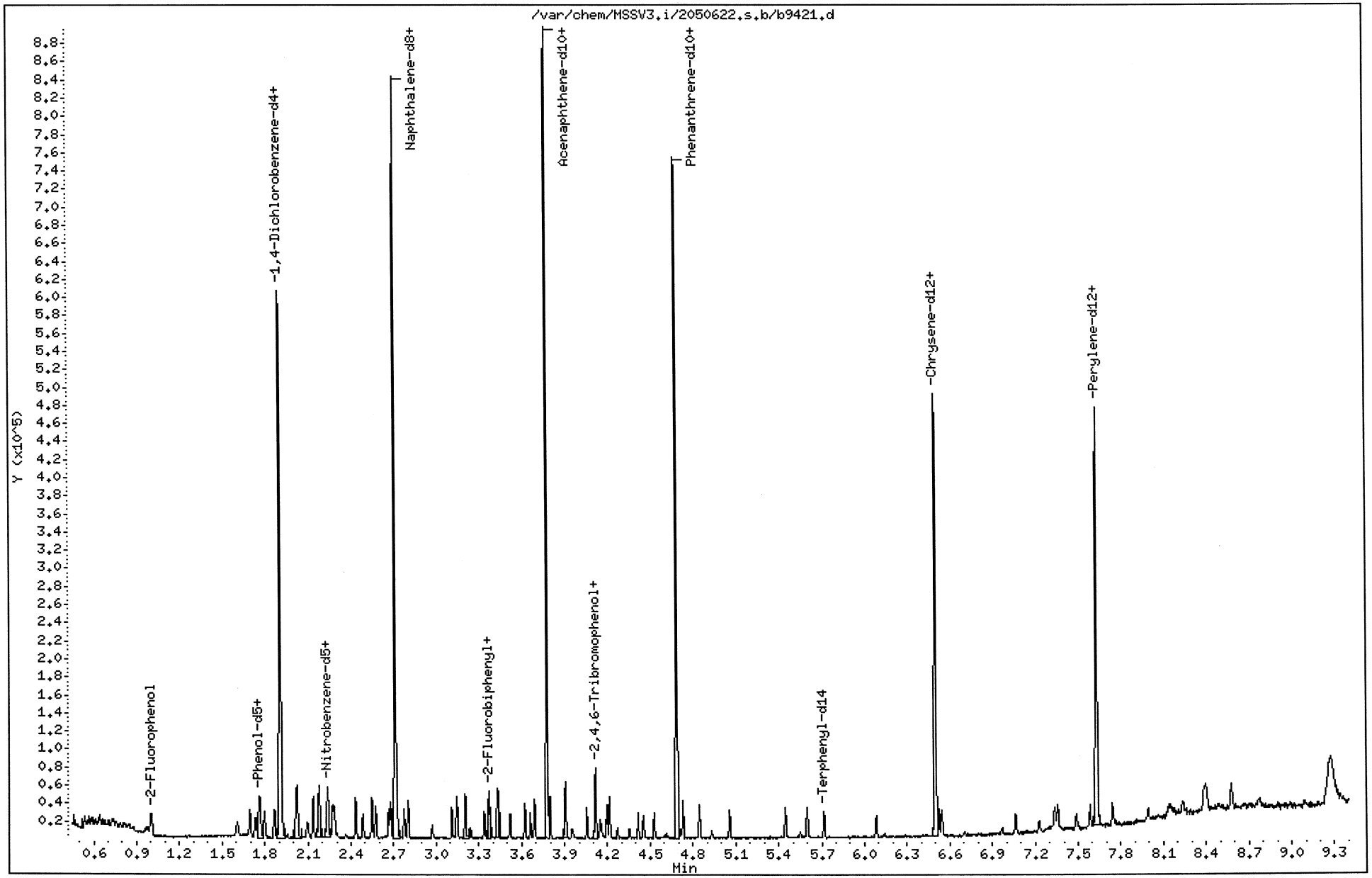
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3

Column diameter: 0.25

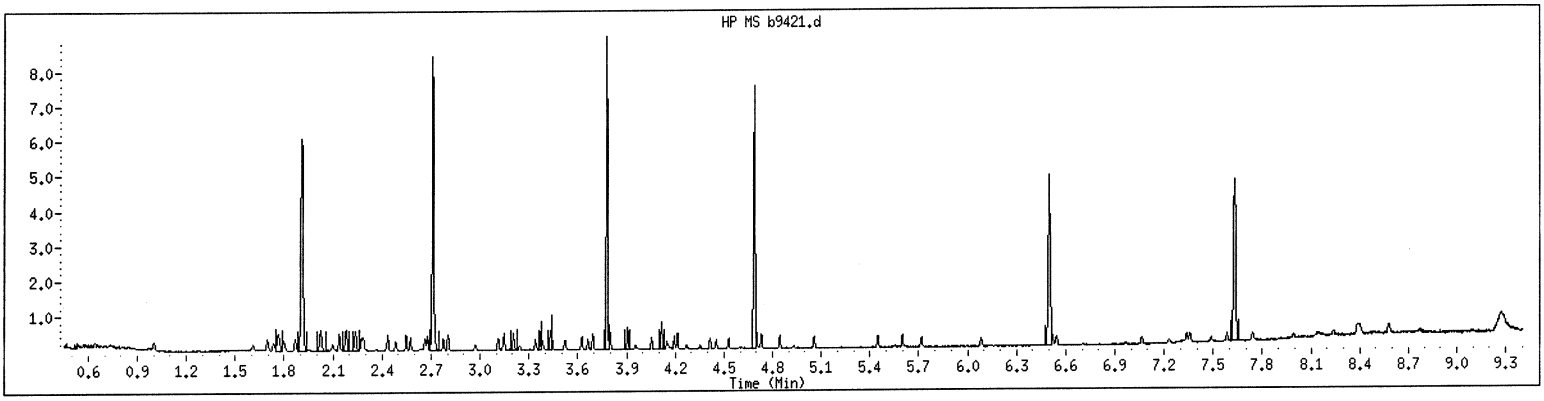
000334



Data file : /var/chem/MSSV3.i/2050622.s.b/b9421.d
Report Date: 06/22/2005 15:14

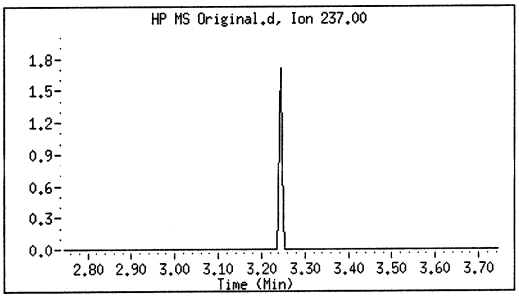
MANUAL INTEGRATION GRAPHIC REPORT

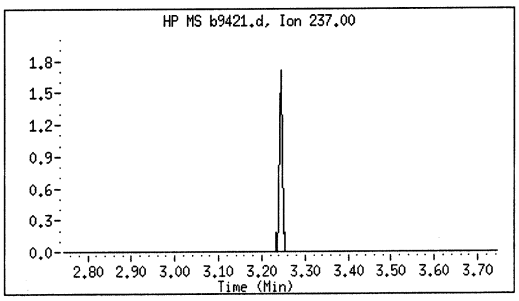
Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 22-JUN-2005 13:00	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1203*4-24-8		
Misc Info	: STD002*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



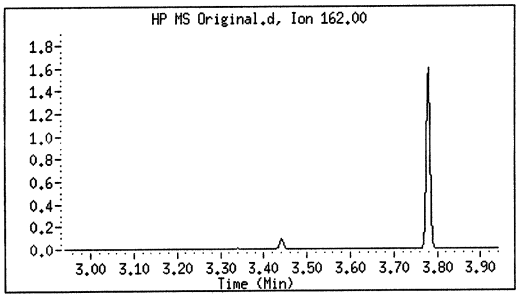
Original | Final

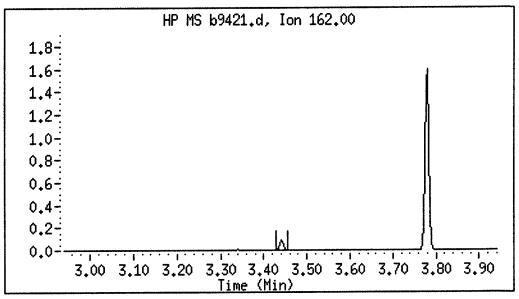
34 Hexachlorocyclopentadiene ++ CAS#: 77-47-4





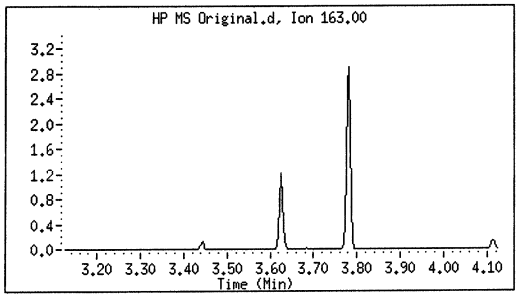
38 2-Chloronaphthalene CAS#: 91-58-7

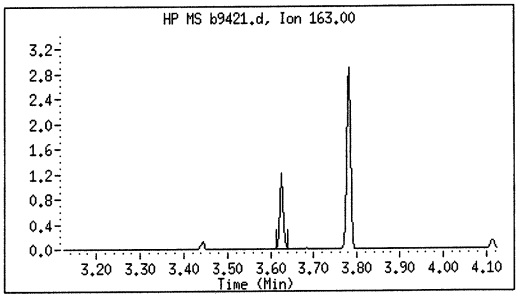




Original | Final

40 Dimethylphthalate CAS#: 131-11-3





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9422.d
Lab Smp Id: 1202 Client Smp ID: STD001
Inj Date : 22-JUN-2005 13:15
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1202*4-24-9
Misc Info : STD001*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:14 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 13:15 Cal File: b9422.d
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.542	0.542	(0.285)	1004	1.00000	0.620
1 n-Nitrosodimethylamine	42	0.517	0.517	(0.271)	388	1.00000	1.15
$ 3 2-Fluorophenol	112	1.002	1.002	(0.526)	2694	1.00000	1.11
$ 4 Phenol-d5	99	1.757	1.757	(0.923)	4388	1.00000	1.15
5 Aniline	93	1.695	1.695	(0.890)	5120	1.00000	0.956
6 Phenol +	94	1.766	1.766	(0.927)	4825	1.00000	1.09
7 bis(-2-Chloroethyl)Ether	63	1.735	1.735	(0.911)	2891	1.00000	1.05
8 2-Chlorophenol	128	1.800	1.800	(0.945)	1963	1.00000	1.13
9 1,3-Dichlorobenzene	146	1.865	1.865	(0.979)	2200	1.00000	1.04
* 10 1,4-Dichlorobenzene-d4	152	1.905	1.905	(1.000)	53211	40.0000	
11 1,4-Dichlorobenzene +	146	1.919	1.919	(1.007)	2221	1.00000	1.05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	12 Benzyl alcohol	108	2.027	2.027	(1.064)	1976	1.00000	1.12
	13 1,2-Dichlorobenzene	146	2.018	2.018	(1.060)	2080	1.00000	1.04
	15 2-Methylphenol	108	2.138	2.138	(1.122)	2997	1.00000	1.18
	14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.101)	1639	1.00000	1.06
	17 3- & 4-Methylphenol	108	2.237	2.237	(1.174)	2795	1.00000	1.10
	16 N-Nitroso-di-n-propylamine++	70	2.180	2.180	(1.145)	3804	1.00000	1.09
	18 Hexachloroethane	117	2.231	2.231	(1.171)	1212	1.00000	0.985
$	19 Nitrobenzene-d5	82	2.271	2.271	(0.839)	5205	1.00000	1.01
	20 Nitrobenzene	77	2.282	2.282	(0.843)	5667	1.00000	1.05
	21 Isophorone	82	2.433	2.433	(0.898)	8179	1.00000	1.07
	22 2-Nitrophenol +	139	2.481	2.481	(0.916)	756	1.00000	0.877
	23 2,4-Dimethyphenol	107	2.546	2.546	(0.940)	2849	1.00000	0.934
	24 bis(-2-Chloroethoxy)methane	93	2.572	2.572	(0.950)	4547	1.00000	1.08
	26 2,4-Dichlorophenol +	162	2.660	2.660	(0.982)	1376	1.00000	0.994
	27 1,2,4-Trichlorobenzene	180	2.677	2.677	(0.988)	2134	1.00000	1.14
*	28 Naphthalene-d8	136	2.708	2.708	(1.000)	182534	40.0000	
	29 Naphthalene	128	2.722	2.722	(1.005)	5542	1.00000	1.07
	30 4-Chloroaniline	127	2.770	2.770	(1.023)	1754	1.00000	1.80
	31 Hexachlorobutadiene +	225	2.802	2.802	(1.035)	1511	1.00000	1.01
	32 4-Chloro-3-Methylphenol +	107	3.108	3.108	(1.148)	2378	1.00000	1.07
	33 2-Methylnaphthalene	142	3.142	3.142	(1.160)	3137	1.00000	0.933
	145 1-Methylnapthalene	142	3.205	3.205	(1.183)	3448	1.00000	1.15
	35 2,4,6-Trichlorophenol +	196	3.341	3.341	(0.884)	766	1.00000	0.793
	36 2,4,5-Trichlorphenol	196	3.381	3.381	(0.895)	960	1.00000	0.939
$	37 2-Fluorobiphenyl	172	3.369	3.369	(0.892)	3787	1.00000	1.07
	38 2-Chloronaphthalene	162	3.440	3.440	(0.911)	3336	1.00000	1.12(M)
	39 2-Nitroaniline	138	3.520	3.520	(0.932)	727	1.00000	0.892
	40 Dimethylphthalate	163	3.622	3.622	(0.959)	3048	1.00000	1.06(M)
	41 2,6-Dinitrotoluene	165	3.778	3.778	(1.000)	12554	1.00000	19.6
	42 Acenaphthylene	152	3.693	3.693	(0.977)	4508	1.00000	1.20
	43 3-Nitroaniline	138	3.775	3.775	(0.999)	561	1.00000	0.912
*	44 Acenaphthene-d10	164	3.778	3.778	(1.000)	96827	40.0000	
	45 Acenaphthene +	153	3.798	3.798	(1.005)	2843	1.00000	1.04
	49 4-Nitrophenol ++	109	3.954	3.954	(1.047)	438	1.00000	0.656
	47 Dibenzofuran	168	3.903	3.903	(1.033)	4426	1.00000	1.09
	48 2,4-Dinitrotoluene	165	3.909	3.909	(1.035)	713	1.00000	0.881(M)
	50 Diethylphthalate	149	4.053	4.053	(1.073)	3021	1.00000	1.06
	52 4-Chlorophenyl-phenylether	204	4.116	4.116	(1.089)	1527	1.00000	0.956
	51 Fluorene	166	4.113	4.113	(1.089)	3110	1.00000	0.971
	53 4-Nitroaniline	138	4.144	4.144	(1.097)	555	1.00000	0.933
	54 4,6-Dinitro-o-cresol	198	4.161	4.161	(0.888)	345	1.00000	9.34
	55 N-nitrosodiphenylamine (1)+	169	4.195	4.195	(0.895)	1893	1.00000	0.972
	56 Azobenzene	77	4.212	4.212	(0.899)	7479	1.00000	1.00
$	57 2,4,6-Tribromophenol	332	4.269	4.269	(1.130)	312	1.00000	0.654
	58 4-Bromophenyl-phenylether	248	4.411	4.411	(0.941)	951	1.00000	1.17
	59 Hexachlorobenzene	284	4.451	4.451	(0.950)	1138	1.00000	1.14
*	61 Phenanthrene-d10	188	4.686	4.686	(1.000)	139743	40.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	62 Phenanthrene	178	4.700	4.700	(1.003)	4349	1.00000	1.08
	63 Anthracene	178	4.732	4.732	(1.010)	4463	1.00000	1.12
	64 Carbazole	167	4.842	4.842	(1.033)	3495	1.00000	0.952
	65 Di-n-butylphthalate	149	5.055	5.055	(1.079)	4250	1.00000	1.06
	67 Fluoranthene +	202	5.447	5.447	(1.162)	4408	1.00000	0.974
	68 Benzidine	184	5.549	5.549	(0.854)	725	1.00000	7.15
	69 Pyrene	202	5.600	5.600	(0.862)	4456	1.00000	1.11
$	70 Terphenyl-d14	244	5.714	5.714	(0.879)	3532	1.00000	1.29
	71 Butylbenzylphthalate	149	6.083	6.083	(0.936)	1873	1.00000	1.14
	73 3,3'-Dichlorobenzidine	252	6.489	6.489	(0.998)	1713	1.00000	1.20
	72 Benzo(a)anthracene	228	6.491	6.491	(0.999)	4860	1.00000	1.11
*	74 Chrysene-d12	240	6.500	6.500	(1.000)	136873	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.543	6.543	(1.007)	2912	1.00000	1.27
	75 Chrysene	228	6.517	6.517	(1.003)	4879	1.00000	1.15
	77 Di-n-octylphthalate +	149	7.065	7.065	(1.087)	4273	1.00000	1.02
	78 Benzo(b)fluoranthene	252	7.334	7.334	(0.961)	4328	1.00000	0.872
	79 Benzo(k)fluoranthene	252	7.354	7.354	(0.964)	4946	1.00000	0.967
	80 Benzo(a)pyrene +	252	7.581	7.581	(0.994)	4110	1.00000	0.926
*	81 Perylene-d12	264	7.630	7.630	(1.000)	161103	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.382	8.382	(1.099)	6502	1.00000	0.928
	83 Dibenzo(a,h)anthracene	278	8.396	8.396	(1.100)	5216	1.00000	0.914(M)
	84 Benzo(g,h,i)perylene	276	8.580	8.580	(1.125)	5262	1.00000	1.85(M)
M	66 Total Methylphenol	108				5792	2.00000	2.32
	91 Acetophenone	105	2.174	2.174	(1.142)	4548	1.00000	1.14
	155 Benzaldehyde	77	1.604	1.604	(0.842)	1508	1.00000	1.34
	156 Caprolactam	113	2.969	2.969	(1.096)	464	1.00000	0.762
	157 Biphenyl	154	3.429	3.429	(1.266)	3789	1.00000	1.02
	158 Atrazine	200	4.527	4.527	(0.966)	878	1.00000	3.99(M)
	180 1,4-Dioxane	88	0.466	0.466	(0.245)	708	1.00000	0.951

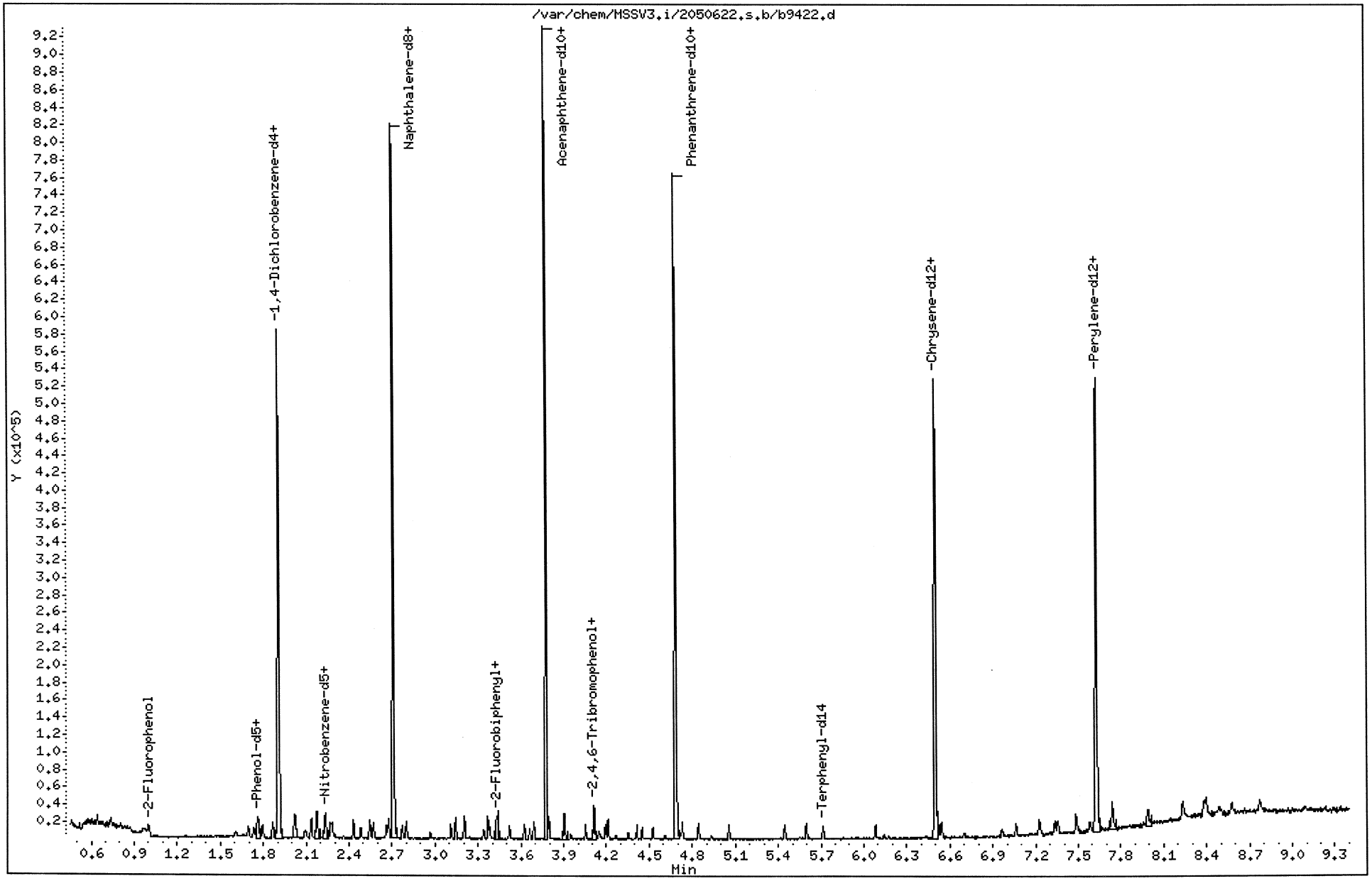
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9422.d
Date : 22-JUN-2005 13:15
Client ID: STD001
Sample Info: 1202*4-24-9
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

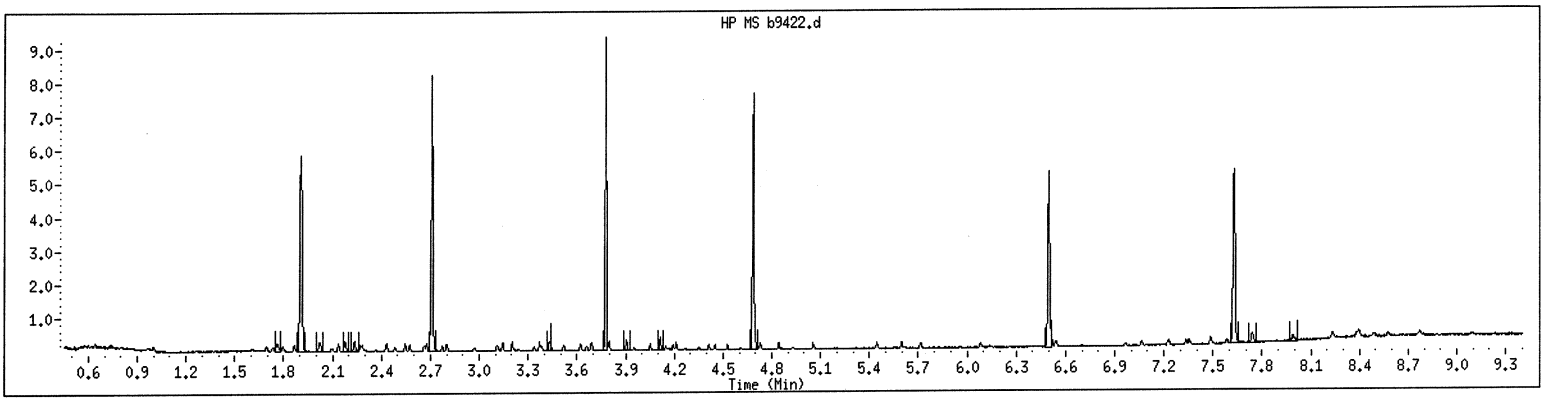
Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25

000340



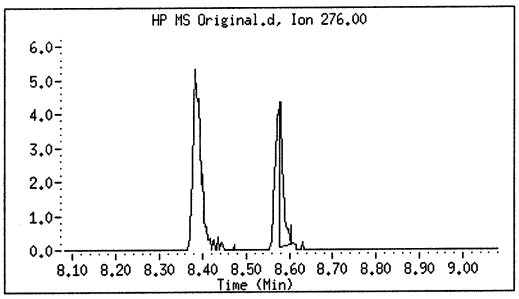
MANUAL INTEGRATION GRAPHIC REPORT

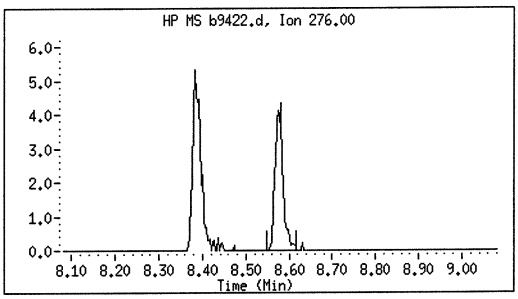
Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 22-JUN-2005 13:15	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1202*4-24-9		
Misc Info	: STD001*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



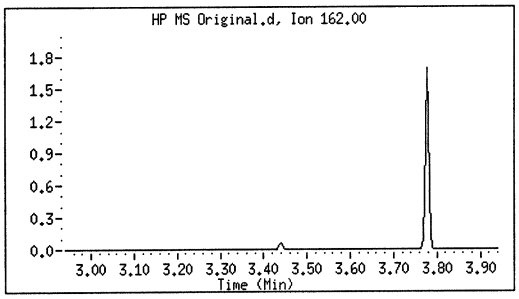
Original Final

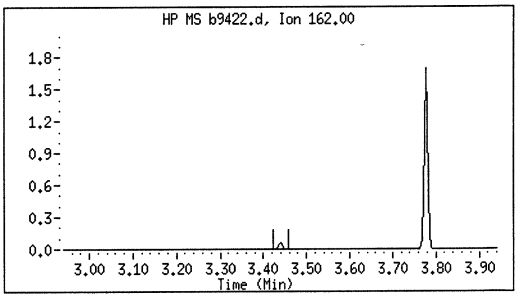
84 Benzo(g,h,i)perylene CAS#: 191-24-2





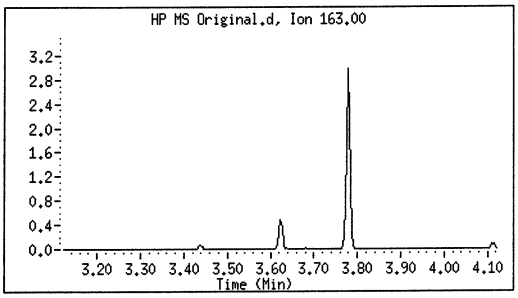
38 2-Chloronaphthalene CAS#: 91-58-7

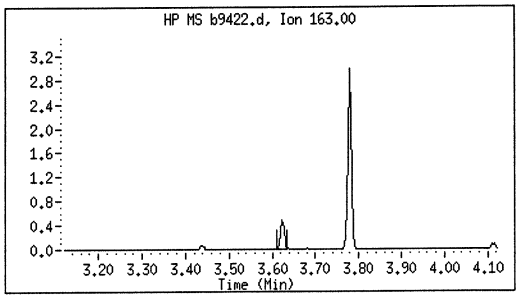




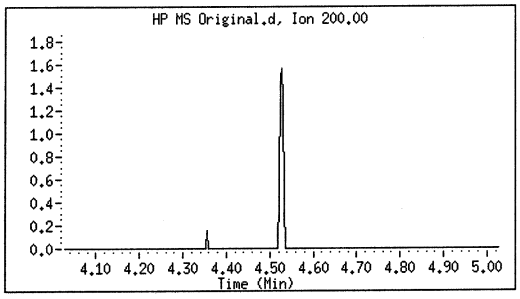
Original | Final

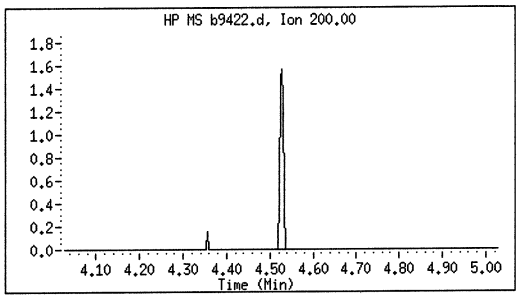
40 Dimethylphthalate CAS#: 131-11-3



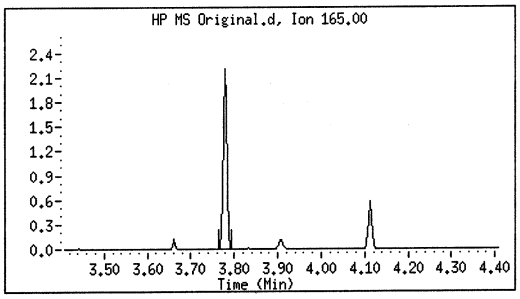


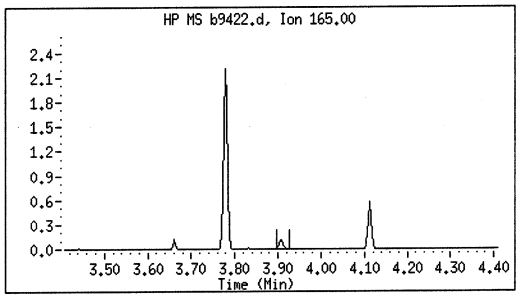
158 Atrazine CAS#: 1912-24-9



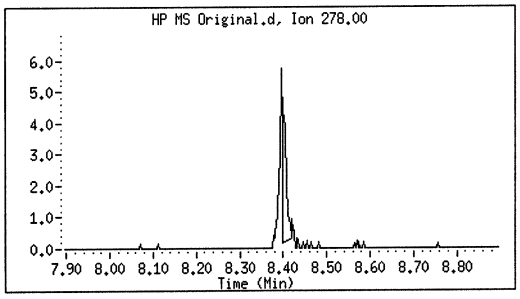


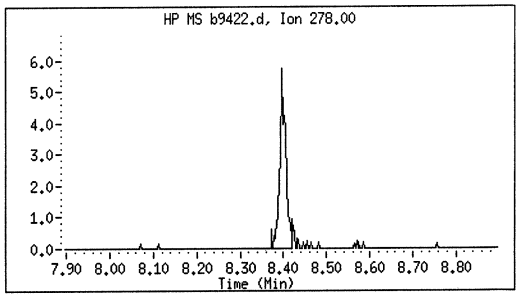
48 2,4-Dinitrotoluene CAS#: 121-14-2





83 Dibenzo(a,h)anthracene CAS#: 53-70-3





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9423.d
Lab Smp Id: 1201 Client Smp ID: STD0.2
Inj Date : 22-JUN-2005 13:31
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1201*4-24-10
Misc Info : STD0.2*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 22-Jun-2005 15:14 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 13:31 Cal File: b9423.d
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula:
Amt * DF * (Uf * Vt/(Vi * Ws * (100 - M)/100)) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
1 n-Nitrosodimethylamine	42	0.520	0.520	(0.273)	85	0.20000	0.222(a)
$ 3 2-Fluorophenol	112	1.002	1.002	(0.525)	575	0.20000	0.209(a)
$ 4 Phenol-d5	99	1.760	1.760	(0.923)	1331	0.20000	0.306(a)
5 Aniline	93	1.701	1.701	(0.891)	1159	0.20000	0.247(a)
6 Phenol +	94	1.766	1.766	(0.926)	1439	0.20000	0.285(a)
7 bis(-2-Chloroethyl)Ether	63	1.738	1.738	(0.911)	609	0.20000	0.195(a)
8 2-Chlorophenol	128	1.800	1.800	(0.943)	279	0.20000	0.142(a)
9 1,3-Dichlorobenzene	146	1.868	1.868	(0.979)	558	0.20000	0.233(a)
* 10 1,4-Dichlorobenzene-d4	152	1.908	1.908	(1.000)	60489	40.0000	
11 1,4-Dichlorobenzene +	146	1.919	1.919	(1.006)	600	0.20000	0.249(a)
13 1,2-Dichlorobenzene	146	2.021	2.021	(1.060)	396	0.20000	0.175(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	15 2-Methylphenol	108	2.135	2.135	(1.119)	1041	0.20000	0.360
	14 Bis(2-chloroisopropyl)ether	45	2.098	2.098	(1.100)	536	0.20000	0.304(a)
	17 3- & 4-Methylphenol	108	2.240	2.240	(1.174)	872	0.20000	0.302(aM)
	16 N-Nitroso-di-n-propylamine++	70	2.180	2.180	(1.143)	1243	0.20000	0.314(aM)
	18 Hexachloroethane	117	2.231	2.231	(1.170)	391	0.20000	0.280(aM)
$	19 Nitrobenzene-d5	82	2.274	2.274	(0.839)	1629	0.20000	0.278(aM)
	20 Nitrobenzene	77	2.288	2.288	(0.844)	1674	0.20000	0.273(a)
	21 Isophorone	82	2.433	2.433	(0.897)	2172	0.20000	0.251(aM)
	22 2-Nitrophenol +	139	2.484	2.484	(0.916)	164	0.20000	0.168(aM)
	23 2,4-Dimethyphenol	107	2.546	2.546	(0.939)	978	0.20000	0.283(a)
	24 bis(-2-Chloroethoxy)methane	93	2.572	2.572	(0.949)	1313	0.20000	0.274(a)
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.982)	461	0.20000	0.294(a)
	27 1,2,4-Trichlorobenzene	180	2.677	2.677	(0.987)	595	0.20000	0.280(a)
*	28 Naphthalene-d8	136	2.711	2.711	(1.000)	206878	40.0000	
	29 Naphthalene	128	2.725	2.725	(1.005)	1506	0.20000	0.257(a)
	30 4-Chloroaniline	127	2.776	2.776	(1.024)	647	0.20000	1.49
	31 Hexachlorobutadiene +	225	2.805	2.805	(1.035)	274	0.20000	0.161(a)
	32 4-Chloro-3-Methylphenol +	107	3.111	3.111	(1.148)	704	0.20000	0.278(a)
	33 2-Methylnaphthalene	142	3.148	3.148	(1.161)	1052	0.20000	0.276(a)
	145 1-Methylnapthalene	142	3.205	3.205	(1.182)	992	0.20000	0.291(a)
	35 2,4,6-Trichlorophenol +	196	3.344	3.344	(0.884)	198	0.20000	0.181(a)
	36 2,4,5-Trichlorphenol	196	3.384	3.384	(0.895)	162	0.20000	0.140(a)
$	37 2-Fluorobiphenyl	172	3.370	3.370	(0.891)	1058	0.20000	0.263(a)
	38 2-Chloronaphthalene	162	3.443	3.443	(0.911)	904	0.20000	0.267(aM)
	39 2-Nitroaniline	138	3.523	3.523	(0.932)	90	0.20000	0.0973(a)
	40 Dimethylphthalate	163	3.625	3.625	(0.959)	736	0.20000	0.225(aM)
	41 2,6-Dinitrotoluene	165	3.662	3.662	(0.968)	124	0.20000	0.171(aM)
	42 Acenaphthylene	152	3.693	3.693	(0.977)	1485	0.20000	0.348
	43 3-Nitroaniline	138	3.775	3.775	(0.998)	126	0.20000	0.181(a)
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	109841	40.0000	
	45 Acenaphthene +	153	3.801	3.801	(1.005)	893	0.20000	0.289(a)
	49 4-Nitrophenol ++	109	3.954	3.954	(1.046)	87	0.20000	0.115(a)
	47 Dibenzofuran	168	3.906	3.906	(1.033)	1337	0.20000	0.291(a)
	48 2,4-Dinitrotoluene	165	3.909	3.909	(1.034)	140	0.20000	0.153(aM)
	50 Diethylphthalate	149	4.054	4.054	(1.072)	896	0.20000	0.278(a)
	52 4-Chlorophenyl-phenylether	204	4.116	4.116	(1.089)	439	0.20000	0.242(a)
	51 Fluorene	166	4.113	4.113	(1.088)	941	0.20000	0.259(aM)
	53 4-Nitroaniline	138	4.150	4.150	(1.098)	94	0.20000	0.139(aM)
	55 N-nitrosodiphenylamine (1)+	169	4.196	4.196	(0.895)	561	0.20000	0.262(a)
	56 Azobenzene	77	4.213	4.213	(0.899)	2167	0.20000	0.265(aM)
	58 4-Bromophenyl-phenylether	248	4.414	4.414	(0.942)	254	0.20000	0.285(a)
	59 Hexachlorobenzene	284	4.451	4.451	(0.950)	351	0.20000	0.320(a)
*	61 Phenanthrene-d10	188	4.687	4.687	(1.000)	153431	40.0000	
	62 Phenanthrene	178	4.701	4.701	(1.003)	1312	0.20000	0.295(a)
	63 Anthracene	178	4.732	4.732	(1.010)	1363	0.20000	0.312(a)
	64 Carbazole	167	4.848	4.848	(1.035)	1039	0.20000	0.258(a)
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	902	0.20000	0.205(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	67 Fluoranthene +	202	5.447	5.447	(1.162)	986	0.20000	0.198(a)
	69 Pyrene	202	5.598	5.598	(0.861)	1210	0.20000	0.347
$	70 Terphenyl-d14	244	5.720	5.720	(0.880)	799	0.20000	0.336
	73 3,3'-Dichlorobenzidine	252	6.494	6.494	(0.999)	176	0.20000	0.142(a)
	72 Benzo(a)anthracene	228	6.489	6.489	(0.998)	1234	0.20000	0.325(a)
*	74 Chrysene-d12	240	6.500	6.500	(1.000)	118915	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.543	6.543	(1.007)	653	0.20000	0.328(a)
	75 Chrysene	228	6.520	6.520	(1.003)	1286	0.20000	0.350
	78 Benzo(b)fluoranthene	252	7.335	7.335	(0.961)	1094	0.20000	0.246(a)
	79 Benzo(k)fluoranthene	252	7.360	7.360	(0.965)	1188	0.20000	0.259(a)
	80 Benzo(a)pyrene +	252	7.584	7.584	(0.994)	951	0.20000	0.239(a)
*	81 Perylene-d12	264	7.630	7.630	(1.000)	144571	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.385	8.385	(1.099)	1335	0.20000	0.212(a)
	83 Dibenzo(a,h)anthracene	278	8.399	8.399	(1.101)	1103	0.20000	0.215(a)
	84 Benzo(g,h,i)perylene	276	8.578	8.578	(1.124)	1449	0.20000	1.21
M	66 Total Methylphenol	108				1913	0.40000	0.675
	91 Acetophenone	105	2.175	2.175	(1.140)	1234	0.20000	0.271(a)
	155 Benzaldehyde	77	1.610	1.610	(0.844)	344	0.20000	0.269(aM)
	156 Caprolactam	113	2.972	2.972	(1.096)	126	0.20000	0.183(aM)
	157 Biphenyl	154	3.435	3.435	(1.267)	1118	0.20000	0.265(aM)
	158 Atrazine	200	4.528	4.528	(0.966)	184	0.20000	0.761(M)

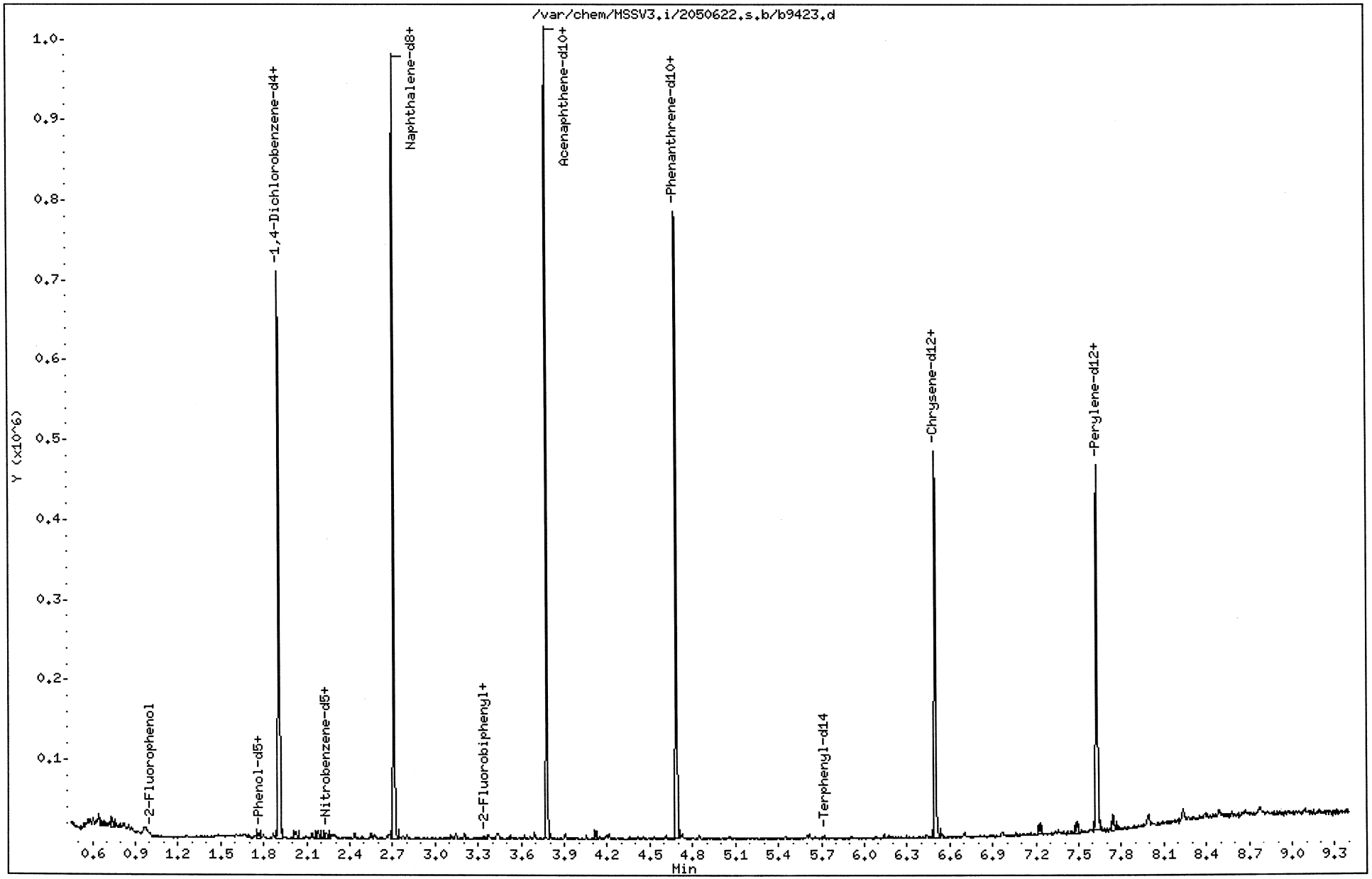
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

000346

Data File: /var/chem/MSSV3.i/2050622.s.b/b9423.d
Date : 22-JUN-2005 13:31
Client ID: STD0.2
Sample Info: 1201*4-24-10
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

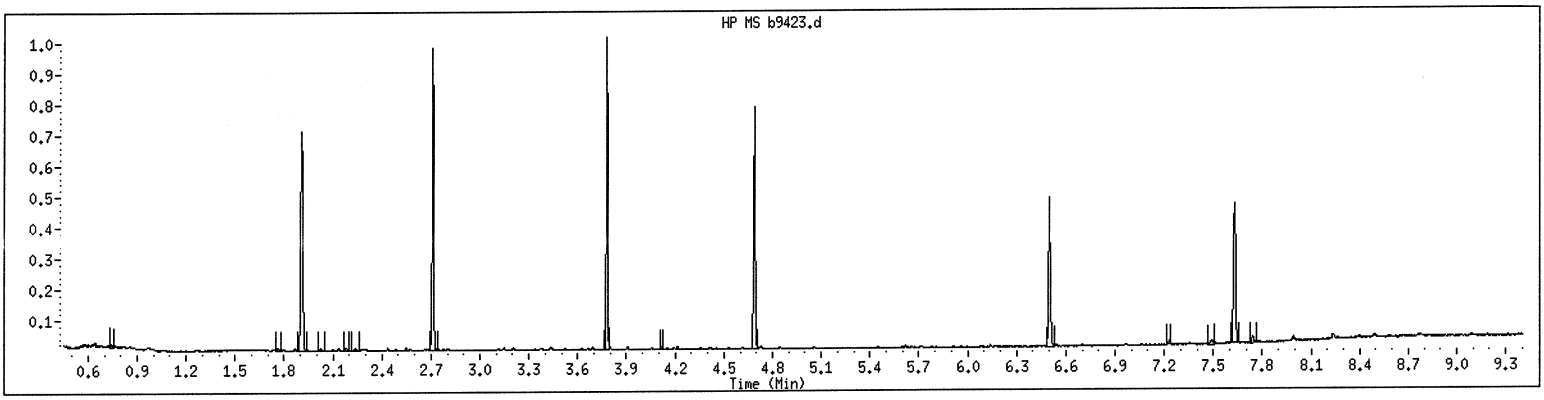
Instrument: MSSV3.i
Operator: jar3
Column diameter: 0.25



Data file : /var/chem/MSSV3.i/2050622.s.b/b9423.d
Report Date: 06/22/2005 15:14

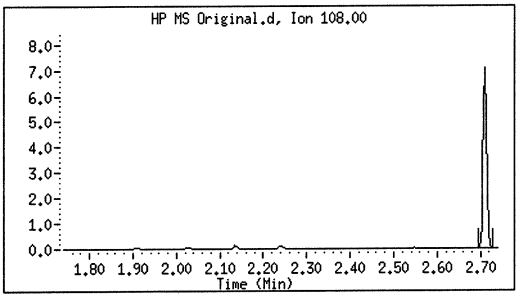
MANUAL INTEGRATION GRAPHIC REPORT

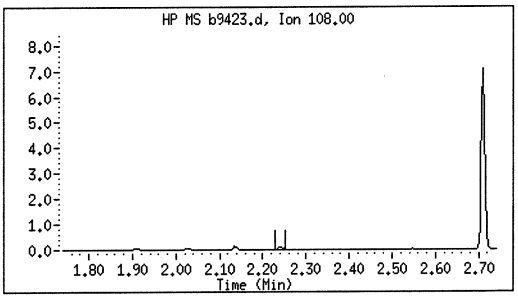
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 22-JUN-2005 13:31	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1201*4-24-10		
Misc Info	: STD0.2*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



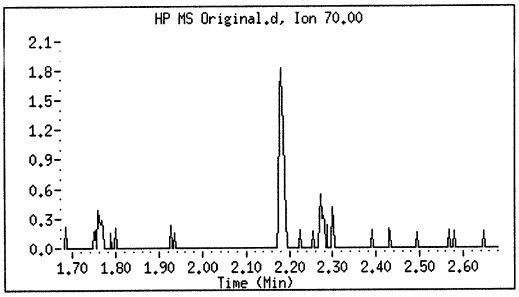
Original | Final

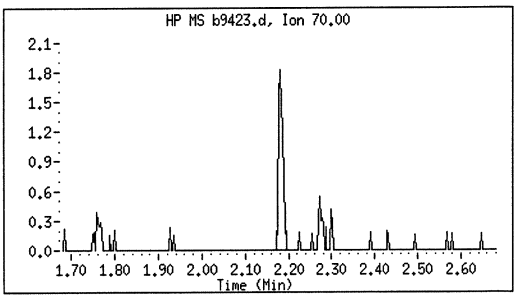
17 3- & 4-Methylphenol CAS#: 1319-77-3MP





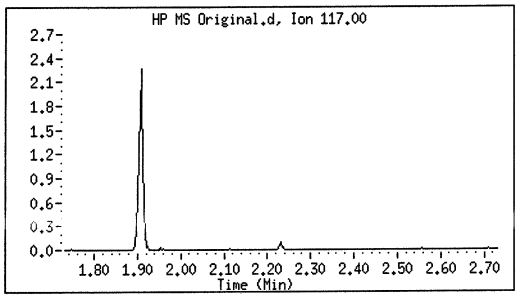
16 N-Nitroso-di-n-propylamine++ CAS#: 621-64-7

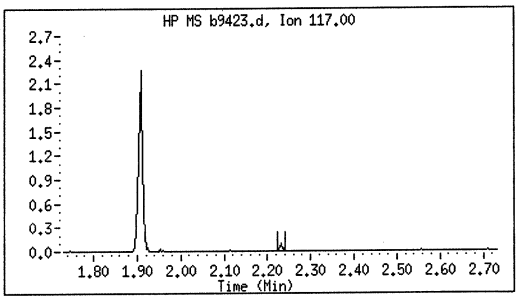




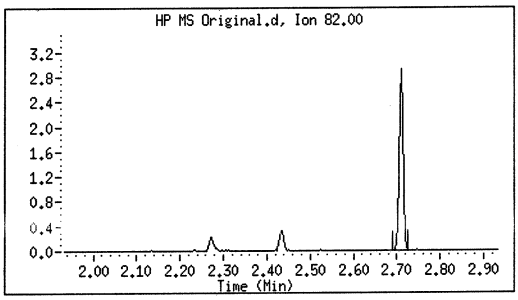
Original | Final

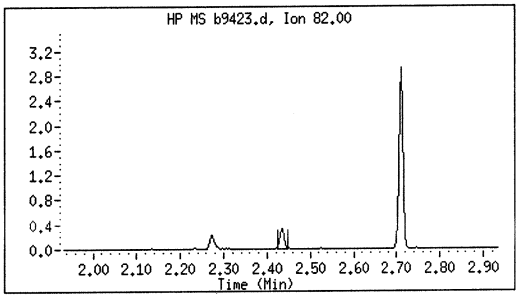
18 Hexachloroethane CAS#: 67-72-1



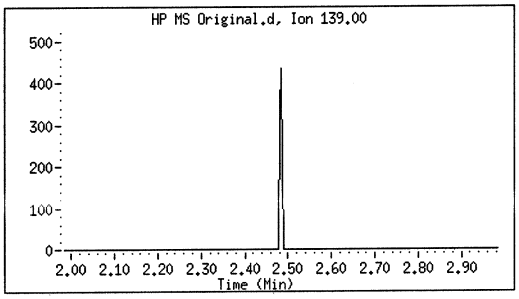


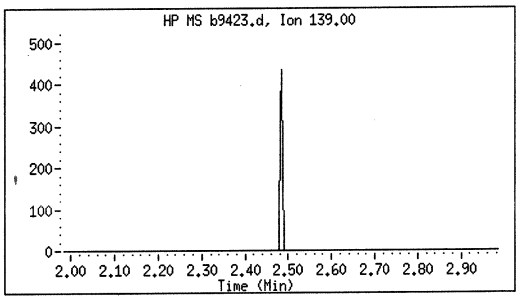
21 Isophorone CAS#: 78-59-1



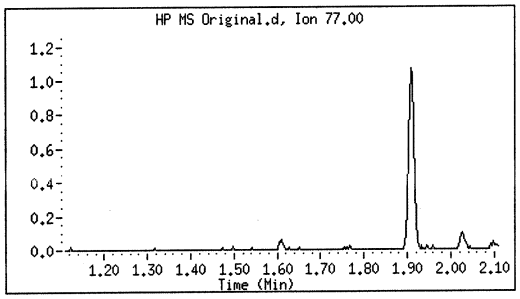


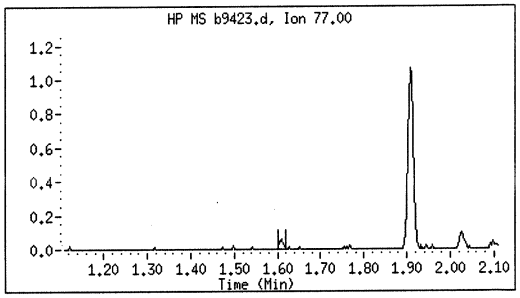
22 2-Nitrophenol + CAS#: 88-75-5



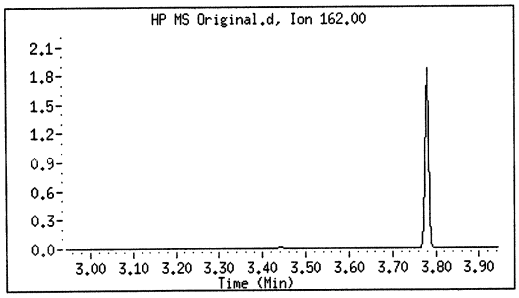


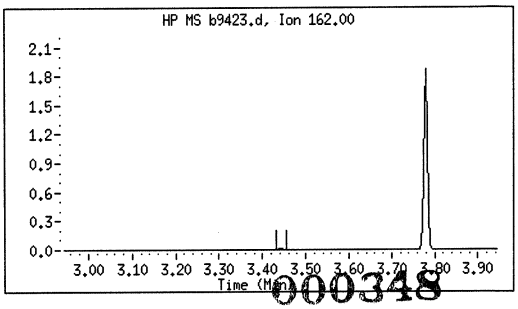
155 Benzaldehyde CAS#: 100-52-7





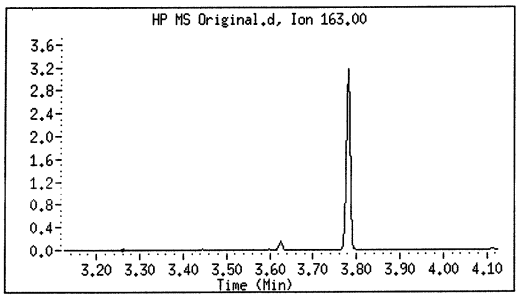
38 2-Chloronaphthalene CAS#: 91-58-7

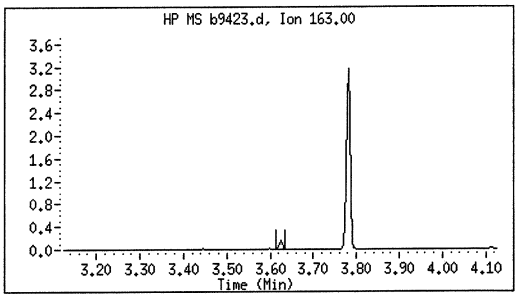




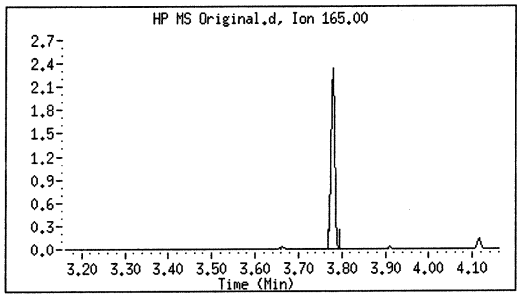
Original | Final

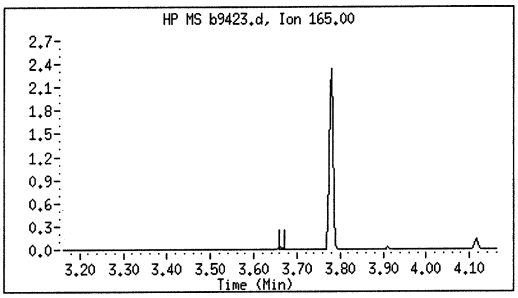
40 Dimethylphthalate CAS#: 131-11-3



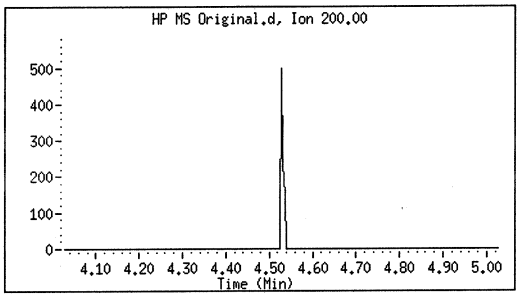


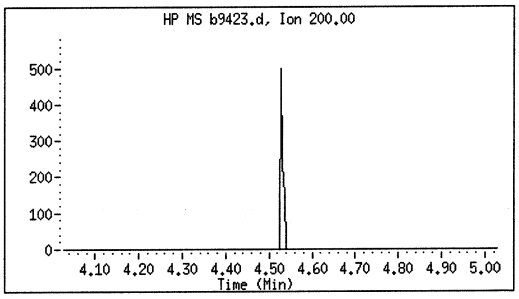
41 2,6-Dinitrotoluene CAS#: 606-20-2



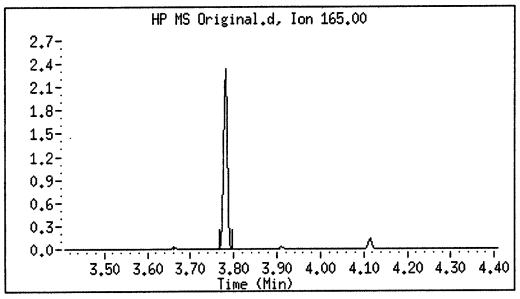


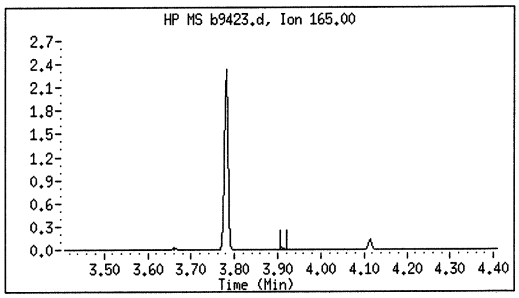
158 Atrazine CAS#: 1912-24-9



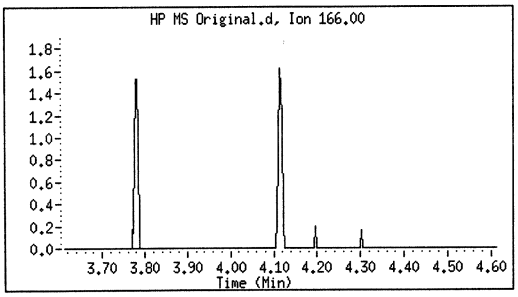


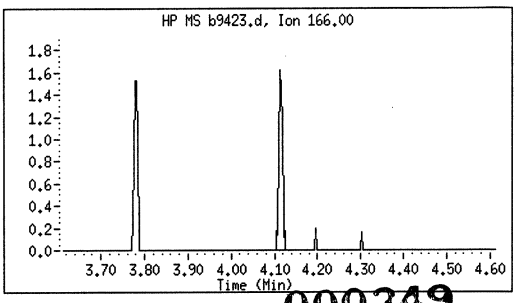
48 2,4-Dinitrotoluene CAS#: 121-14-2





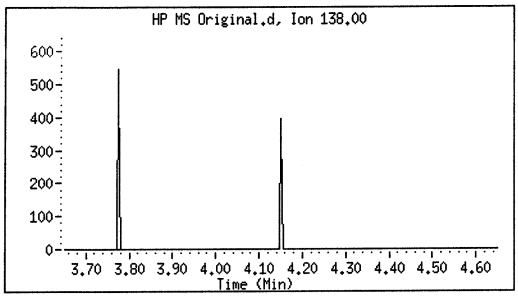
51 Fluorene CAS#: 86-73-7

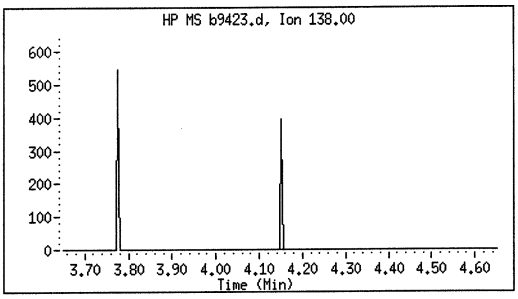




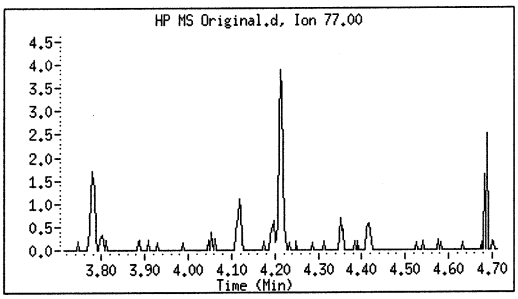
Original | Final

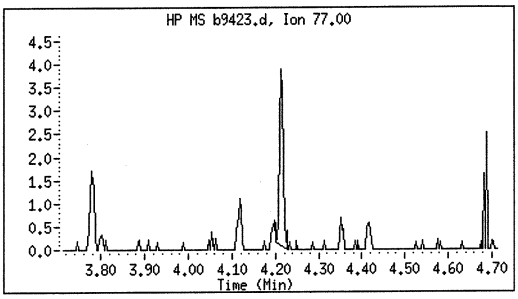
53 4-Nitroaniline CAS#: 100-01-6



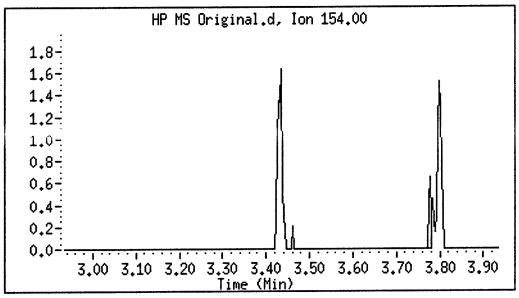


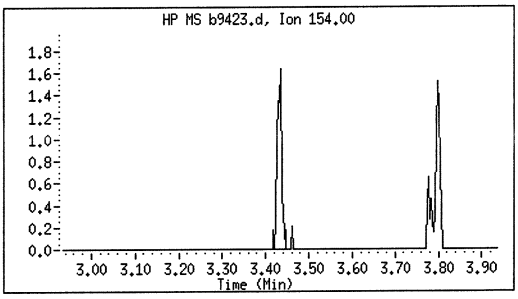
56 Azobenzene CAS#: 122-66-7



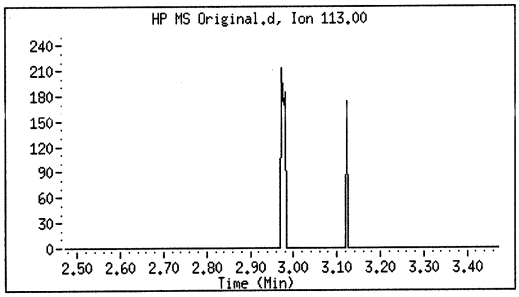


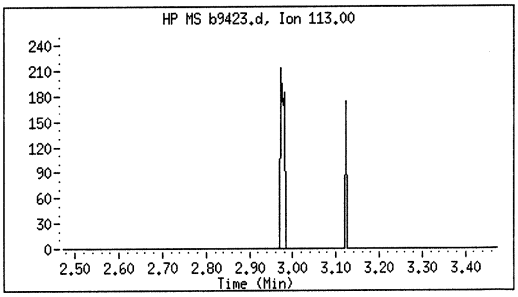
157 Biphenyl CAS#: 92-52-4



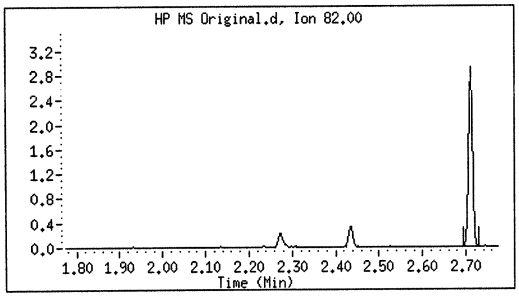


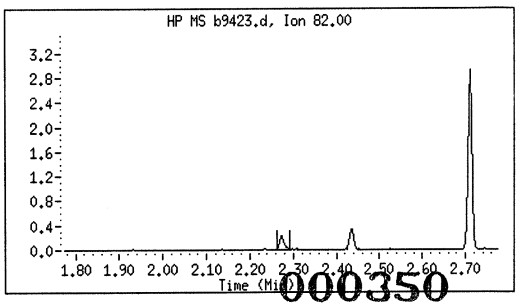
156 Caprolactam CAS#: 105-60-2





$ 19 Nitrobenzene-d5 CAS#: 4165-60-0





Data file : /var/chem/MSSV3.i/2050622.s.b/b9424.d
Report Date: 06/29/2005 16:45

GCAL, Inc.

RECOVERY REPORT

Client Name: 4-24-11
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: ICV75.spk
Sublist File: 8270C.sub
Method File: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Misc Info: ICV050*MSSV~2707~

Client SDG: 2050622.s
Fraction: SV
Client Smp ID: ICV050
Operator: jar3
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 n-Nitrosodimethylamine	50.0	57.0	113.99	75-125
2 Pyridine	50.0	67.3	134.55*	75-125
5 Aniline	50.0	149	297.98*	75-125
6 Phenol +	50.0	48.2	96.38	75-125
7 bis(-2-Chloroethyl)Ether	50.0	57.9	115.78	75-125
8 2-Chlorophenol	50.0	46.9	93.74	75-125
9 1,3-Dichlorobenzene	50.0	51.0	102.06	75-125
11 1,4-Dichlorobenzene +	50.0	50.8	101.68	75-125
12 Benzyl alcohol	50.0	49.4	98.71	75-125
13 1,2-Dichlorobenzene	50.0	50.1	100.29	75-125
14 Bis(2-chloroisopropyl)ether	50.0	53.4	106.89	75-125
15 2-Methylphenol	50.0	47.4	94.72	75-125
16 N-Nitroso-di-n-propylamine++	50.0	52.6	105.21	75-125
17 3- & 4-Methylphenol	50.0	48.5	96.99	75-125
18 Hexachloroethane	50.0	50.4	100.78	75-125
20 Nitrobenzene	50.0	47.4	94.83	75-125
21 Isophorone	50.0	48.7	97.32	75-125
22 2-Nitrophenol +	50.0	49.7	99.34	75-125
23 2,4-Dimethyphenol	50.0	46.5	93.07	75-125
24 bis(-2-Chloroethoxy)methane	50.0	48.7	97.46	75-125
25 Benzoic Acid	50.0	55.5	110.93	75-125
26 2,4-Dichlorophenol +	50.0	44.4	88.79	75-125
27 1,2,4-Trichlorobenzene	50.0	48.1	96.15	75-125
29 Naphthalene	50.0	48.9	97.87	75-125
30 4-Chloroaniline	50.0	48.7	97.43	75-125
31 Hexachlorobutadiene +	50.0	48.5	96.97	75-125
32 4-Chloro-3-Methylphenol +	50.0	42.7	85.41	75-125
33 2-Methylnaphthalene	50.0	47.8	95.51	75-125
34 Hexachlorocyclopentadiene ++	50.0	54.2	108.38	75-125
35 2,4,6-Trichlorophenol +	50.0	47.0	94.05	75-125

Data file : /var/chem/MSSV3.i/2050622.s.b/b9424.d
Report Date: 06/29/2005 16:45

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
36 2,4,5-Trichlorphenol	50.0	45.7	91.31	75-125
38 2-Chloronaphthalene	50.0	51.2	102.33	75-125
39 2-Nitroaniline	50.0	42.3	84.54	75-125
40 Dimethylphthalate	50.0	43.0	85.91	75-125
41 2,6-Dinitrotoluene	50.0	45.7	91.48	75-125
42 Acenaphthylene	50.0	57.6	115.27	75-125
43 3-Nitroaniline	50.0	39.8	79.59	75-125
45 Acenaphthene +	50.0	49.5	98.90	75-125
46 2,4-Dinitrophenol ++	50.0	37.5	75.08	75-125
47 Dibenzofuran	50.0	47.1	94.11	75-125
48 2,4-Dinitrotoluene	50.0	43.2	86.48	75-125
49 4-Nitrophenol ++	50.0	40.9	81.86	75-125
50 Diethylphthalate	50.0	41.2	82.38	75-125
51 Fluorene	50.0	46.3	92.54	75-125
52 4-Chlorophenyl-phenylether	50.0	48.1	96.30	75-125
53 4-Nitroaniline	50.0	35.7	71.35*	75-125
54 4,6-Dinitro-o-cresol	50.0	48.1	96.23	75-125
55 N-nitrosodiphenylamine (1)+	50.0	52.2	104.48	75-125
56 Azobenzene	50.0	54.7	109.45	75-125
58 4-Bromophenyl-phenylether	50.0	53.8	107.58	75-125
59 Hexachlorobenzene	50.0	54.6	109.25	75-125
60 Pentachlorophenol +	50.0	45.6	91.29	75-125
62 Phenanthrene	50.0	49.6	99.12	75-125
63 Anthracene	50.0	51.3	102.69	75-125
65 Di-n-butylphthalate	50.0	47.1	94.12	75-125
67 Fluoranthene +	50.0	45.2	90.34	75-125
69 Pyrene	50.0	61.3	122.68	75-125
71 Butylbenzylphthalate	50.0	55.8	111.62	75-125
72 Benzo(a)anthracene	50.0	50.0	99.93	75-125
73 3,3'-Dichlorobenzidine	50.0	44.3	88.69	75-125
75 Chrysene	50.0	47.8	95.66	75-125
76 bis(2-Ethylhexyl)phthalate	50.0	51.0	101.98	75-125
77 Di-n-octylphthalate +	50.0	44.5	88.98	75-125
78 Benzo(b)fluoranthene	50.0	48.5	97.02	75-125
79 Benzo(k)fluoranthene	50.0	46.5	92.97	75-125
80 Benzo(a)pyrene +	50.0	48.0	96.09	75-125
82 Indeno(1,2,3-cd)pyrene	50.0	43.9	87.84	75-125
83 Dibenzo(a,h)anthracene	50.0	44.2	88.42	75-125
84 Benzo(g,h,i)perylene	50.0	46.3	92.63	75-125

Data file : /var/chem/MSSV3.i/2050622.s.b/b9424.d
Report Date: 06/29/2005 16:45

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 2-Fluorophenol	100	88.6	88.56	24- 96
$ 4 Phenol-d5	100	98.0	97.96*	10- 76
$ 19 Nitrobenzene-d5	50.0	47.4	94.86	43-110
$ 37 2-Fluorobiphenyl	50.0	48.2	96.48	16-128
$ 57 2,4,6-Tribromophenol	100	89.5	89.49	19-133
$ 70 Terphenyl-d14	50.0	59.0	118.02	0-121

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050622.s.b/b9424.d
Lab Smp Id: 1600 Client Smp ID: ICV050
Inj Date : 22-JUN-2005 13:47
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1600*4-24-11
Misc Info : ICV050*MSSV~2707~
Comment :
Method : /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m
Meth Date : 29-Jun-2005 11:32 rlw Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
2 Pyridine	79	0.608	0.526	(0.320)	143782	67.2753	67.3(R)
1 n-Nitrosodimethylamine	42	0.596	0.517	(0.314)	25335	56.9925	57.0
$ 3 2-Fluorophenol	112	1.105	1.002	(0.582)	283263	88.5553	88.6
$ 4 Phenol-d5	99	1.789	1.757	(0.942)	494100	97.9601	98.0(R)
5 Aniline	93	1.743	1.695	(0.918)	277468	148.989	149(R)
6 Phenol +	94	1.797	1.766	(0.946)	282822	48.1925	48.2(H)
7 bis(-2-Chloroethyl)Ether	63	1.774	1.735	(0.934)	210098	57.8895	57.9(H)
8 2-Chlorophenol	128	1.834	1.797	(0.966)	107020	46.8689	46.9
9 1,3-Dichlorobenzene	146	1.899	1.868	(1.000)	142079	51.0301	51.0
* 10 1,4-Dichlorobenzene-d4	152	1.936	1.908	(1.000)	70235	40.0000	(H)
11 1,4-Dichlorobenzene +	146	1.948	1.919	(1.025)	142065	50.8419	50.8(H)
12 Benzyl alcohol	108	2.050	2.027	(1.079)	115186	49.3555	49.4
13 1,2-Dichlorobenzene	146	2.041	2.019	(1.075)	131997	50.1440	50.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
	15 2-Methylphenol	108	2.152	2.141	(1.133)	159123	47.3582	47.4
	14 Bis(2-chloroisopropyl)ether	45	2.112	2.098	(1.112)	109326	53.4459	53.4
	17 3- & 4-Methylphenol	108	2.246	2.240	(1.182)	162624	48.4955	48.5
	16 N-Nitroso-di-n-propylamine++	70	2.203	2.186	(1.160)	241688	52.6044	52.6
	18 Hexachloroethane	117	2.246	2.231	(1.182)	81848	50.3914	50.4
$	19 Nitrobenzene-d5	82	2.285	2.274	(0.842)	336160	47.4283	47.4
	20 Nitrobenzene	77	2.297	2.285	(0.846)	352499	47.4132	47.4
	21 Isophorone	82	2.441	2.433	(0.900)	510068	48.6587	48.7
	22 2-Nitrophenol +	139	2.490	2.484	(0.917)	58793	49.6697	49.7
	23 2,4-Dimethyphenol	107	2.549	2.549	(0.939)	194842	46.5362	46.5
	24 bis(-2-Chloroethoxy)methane	93	2.578	2.575	(0.950)	282759	48.7280	48.7
	25 Benzoic Acid	122	2.657	2.643	(0.979)	32109	55.4674	55.5
	26 2,4-Dichlorophenol +	162	2.663	2.663	(0.981)	84340	44.3957	44.4
	27 1,2,4-Trichlorobenzene	180	2.680	2.680	(0.987)	123920	48.0755	48.1
*	28 Naphthalene-d8	136	2.714	2.711	(1.000)	250617	40.0000	
	29 Naphthalene	128	2.725	2.725	(1.004)	347720	48.9325	48.9
	30 4-Chloroaniline	127	2.776	2.774	(1.023)	107536	48.7161	48.7
	31 Hexachlorobutadiene +	225	2.802	2.802	(1.032)	100012	48.4836	48.5
	32 4-Chloro-3-Methylphenol +	107	3.114	3.114	(1.147)	130890	42.7031	42.7
	33 2-Methylnaphthalene	142	3.145	3.145	(1.159)	220494	47.7536	47.8
	145 1-Methylnapthalene	142	3.205	3.205	(1.181)	203509	49.2341	49.2
	34 Hexachlorocyclopentadiene ++	237	3.242	3.245	(0.857)	75515	54.1900	54.2
	35 2,4,6-Trichlorophenol +	196	3.341	3.341	(0.884)	62172	47.0260	47.0
	36 2,4,5-Trichlorphenol	196	3.381	3.384	(0.894)	63876	45.6565	45.7
$	37 2-Fluorobiphenyl	172	3.372	3.372	(0.892)	234106	48.2382	48.2
	38 2-Chloronaphthalene	162	3.443	3.443	(0.911)	208697	51.1641	51.2
	39 2-Nitroaniline	138	3.523	3.523	(0.932)	47145	42.2678	42.3
	40 Dimethylphthalate	163	3.628	3.628	(0.959)	169248	42.9553	43.0
	41 2,6-Dinitrotoluene	165	3.665	3.665	(0.969)	40098	45.7377	45.7
	42 Acenaphthylene	152	3.693	3.693	(0.977)	296679	57.6354	57.6
	43 3-Nitroaniline	138	3.778	3.778	(0.999)	33484	39.7946	39.8
*	44 Acenaphthene-d10	164	3.781	3.781	(1.000)	132476	40.0000	
	45 Acenaphthene +	153	3.801	3.801	(1.005)	184590	49.4522	49.5
	46 2,4-Dinitrophenol ++	184	3.835	3.838	(1.014)	13865	37.5386	37.5
	49 4-Nitrophenol ++	109	3.948	3.951	(1.044)	37373	40.9283	40.9
	47 Dibenzofuran	168	3.906	3.906	(1.033)	260505	47.0569	47.1
	48 2,4-Dinitrotoluene	165	3.912	3.909	(1.035)	47855	43.2407	43.2
	50 Diethylphthalate	149	4.059	4.059	(1.074)	159878	41.1910	41.2
	52 4-Chlorophenyl-phenylether	204	4.119	4.119	(1.089)	105261	48.1487	48.1
	51 Fluorene	166	4.116	4.116	(1.089)	202773	46.2722	46.3
	53 4-Nitroaniline	138	4.156	4.153	(1.099)	29051	35.6766	35.7(R)
	54 4,6-Dinitro-o-cresol	198	4.161	4.161	(0.888)	27921	48.1174	48.1
	55 N-nitrosodiphenylamine (1)+	169	4.198	4.198	(0.896)	119851	52.2409	52.2
	56 Azobenzene	77	4.215	4.215	(0.899)	480166	54.7238	54.7
$	57 2,4,6-Tribromophenol	332	4.272	4.272	(1.130)	58410	89.4942	89.5
	58 4-Bromophenyl-phenylether	248	4.417	4.417	(0.942)	51509	53.7919	53.8
	59 Hexachlorobenzene	284	4.454	4.454	(0.950)	64331	54.6236	54.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
	60 Pentachlorophenol +	266	4.593	4.593	(0.980)	25183	45.6426	45.6
*	61 Phenanthrene-d10	188	4.686	4.689	(1.000)	164596	40.0000	
	62 Phenanthrene	178	4.703	4.704	(1.004)	236081	49.5610	49.6
	63 Anthracene	178	4.732	4.732	(1.010)	240780	51.3426	51.3
	64 Carbazole	167	4.845	4.848	(1.034)	189921	43.9338	43.9
	65 Di-n-butylphthalate	149	5.058	5.058	(1.079)	221692	47.0621	47.1
	67 Fluoranthene +	202	5.450	5.450	(1.163)	240737	45.1715	45.2
	68 Benzidine	184	5.552	5.555	(0.854)	8164	81.9884	82.0
	69 Pyrene	202	5.600	5.603	(0.861)	241875	61.3391	61.3
$	70 Terphenyl-d14	244	5.717	5.720	(0.879)	158476	59.0110	59.0
	71 Butylbenzylphthalate	149	6.083	6.086	(0.935)	90325	55.8104	55.8
	73 3,3'-Dichlorobenzidine	252	6.492	6.494	(0.998)	62032	44.3461	44.3
	72 Benzo(a)anthracene	228	6.494	6.497	(0.999)	214320	49.9639	50.0
*	74 Chrysene-d12	240	6.503	6.503	(1.000)	134351	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.543	6.546	(1.006)	114584	50.9925	51.0
	75 Chrysene	228	6.523	6.523	(1.003)	198451	47.8278	47.8
	77 Di-n-octylphthalate +	149	7.065	7.068	(1.086)	182950	44.4887	44.5
	78 Benzo(b)fluoranthene	252	7.340	7.343	(0.962)	200837	48.5116	48.5
	79 Benzo(k)fluoranthene	252	7.363	7.363	(0.965)	198376	46.4843	46.5
	80 Benzo(a)pyrene +	252	7.587	7.587	(0.994)	177919	48.0462	48.0
*	81 Perylene-d12	264	7.630	7.633	(1.000)	134424	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.393	8.393	(1.100)	256739	43.9193	43.9
	83 Dibenzo(a,h)anthracene	278	8.405	8.405	(1.102)	210426	44.2108	44.2
	84 Benzo(g,h,i)perylene	276	8.583	8.586	(1.125)	225875	46.3134	46.3
M	66 Total Methylphenol	108				321747	97.7913	97.8
	91 Acetophenone	105	2.194	2.177	(1.155)	272297	51.4858	51.5
	155 Benzaldehyde	77	1.658	1.607	(0.873)	68034	81.3971	81.4
	156 Caprolactam	113	3.000	2.992	(1.106)	34578	41.3704	41.4
	157 Biphenyl	154	3.432	3.432	(1.265)	253563	49.6494	49.6
	158 Atrazine	200	4.533	4.530	(0.967)	36877	414.730	415(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/MSSV3.i/2050622.s.b/b9424.d

Date : 22-JUN-2005 13:47

Client ID: ICV050

Sample Info: 1600*4-24-11

Volume Injected (uL): 1.0

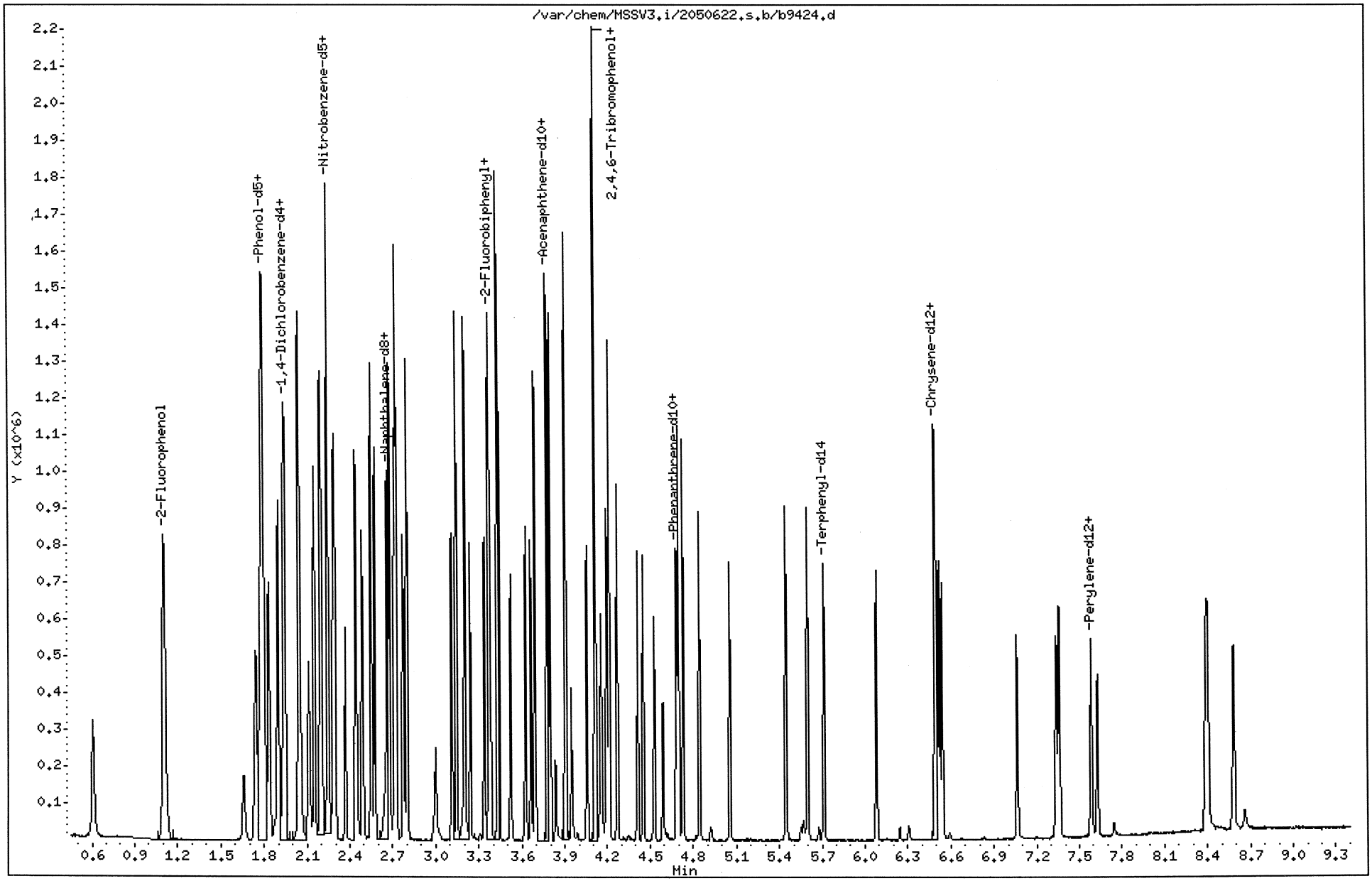
Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3

Column diameter: 0.25

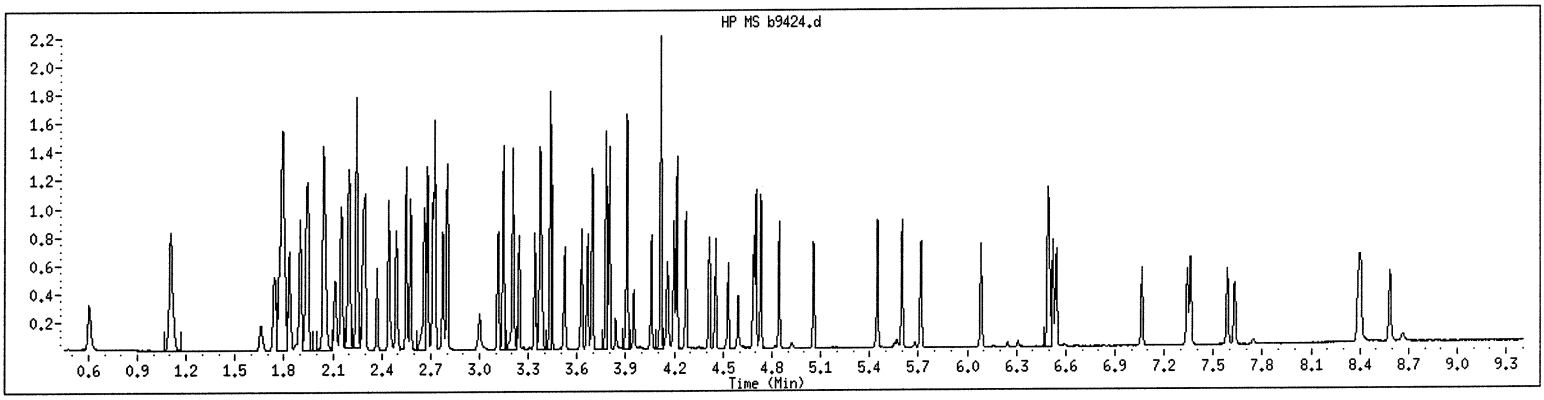
0003577



Data file : /var/chem/MSSV3.i/2050622.s.b/b9424.d
Report Date: 06/29/2005 16:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 22-JUN-2005 13:47	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1600*4-24-11		
Misc Info	: ICV050*MSSV~2707~		
Method	: /var/chem/MSSV3.i/2050622.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

Data File: /var/chem/MSSV3.i/2050630.s.b/b9731.d
Report Date: 30-Jun-2005 10:26

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV3.i
Lab File ID: b9731.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m

Injection Date: 30-JUN-2005 10:16
Init. Cal. Date(s): 08-JUN-2005 22-JUN-2005
Init. Cal. Times: 11:51 13:31
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	2 Pyridine	1.21718	0.94173	0.94173	0.050	-22.62997	50.00000	Averaged	
	1 n-Nitrosodimethylamine	0.25317	0.21872	0.21872	0.050	-13.60655	50.00000	Averaged	
$	3 2-Fluorophenol	1.82172	1.83093	1.83093	0.050	0.50531	50.00000	Averaged	
$	4 Phenol-d5	2.87258	3.05810	3.05810	0.050	6.45843	50.00000	Averaged	
	5 Aniline	65.02490	50.00000	2.24045	0.050	30.04981	0.000e+00	Quadratic	<-
	6 Phenol +	3.34226	3.62270	3.62270	0.050	8.39062	20.00000	Averaged	
	7 bis(-2-Chloroethyl)Ether	2.06694	2.48522	2.48522	0.050	20.23673	50.00000	Averaged	
	8 2-Chlorophenol	1.30043	1.35284	1.35284	0.050	4.03024	50.00000	Averaged	
	9 1,3-Dichlorobenzene	1.58566	1.59226	1.59226	0.050	0.41640	50.00000	Averaged	
	11 1,4-Dichlorobenzene +	1.59137	1.62547	1.62547	0.050	2.14263	20.00000	Averaged	
	12 Benzyl alcohol	1.32914	1.51795	1.51795	0.050	14.20531	50.00000	Averaged	
	13 1,2-Dichlorobenzene	1.49917	1.52552	1.52552	0.050	1.75711	50.00000	Averaged	
	15 2-Methylphenol	1.91357	2.02785	2.02785	0.050	5.97208	50.00000	Averaged	
	14 Bis(2-chloroisopropyl)ether	1.16497	1.36855	1.36855	0.050	17.47505	50.00000	Averaged	
	17 3- & 4-Methylphenol	1.90981	2.10011	2.10011	0.050	9.96440	50.00000	Averaged	
	16 N-Nitroso-di-n-propylamine+	2.61661	2.80683	2.80683	0.050	7.26977	50.00000	Averaged	
	18 Hexachloroethane	0.92503	0.93488	0.93488	0.050	1.06410	50.00000	Averaged	
$	19 Nitrobenzene-d5	1.13125	1.12150	1.12150	0.050	-0.86130	50.00000	Averaged	
	20 Nitrobenzene	1.18661	1.14926	1.14926	0.050	-3.14749	50.00000	Averaged	
	21 Isophorone	1.67308	1.55589	1.55589	0.050	-7.00461	50.00000	Averaged	
	22 2-Nitrophenol +	0.18892	0.20010	0.20010	0.050	5.91476	20.00000	Averaged	
	23 2,4-Dimethyphenol	0.66825	0.69867	0.69867	0.050	4.55178	50.00000	Averaged	
	24 bis(-2-Chloroethoxy)methane	0.92616	0.94605	0.94605	0.050	2.14748	50.00000	Averaged	
	25 Benzoic Acid	62.83644	50.00000	0.14686	0.050	25.67288	0.000e+00	Quadratic	<-
	26 2,4-Dichlorophenol +	0.30321	0.30755	0.30755	0.050	1.43245	20.00000	Averaged	
	27 1,2,4-Trichlorobenzene	0.41140	0.39446	0.39446	0.050	-4.11762	50.00000	Averaged	
	29 Naphthalene	1.13418	1.13294	1.13294	0.050	-0.10879	50.00000	Averaged	
	30 4-Chloroaniline	57.10278	50.00000	0.38027	0.050	14.20556	0.000e+00	Quadratic	<-
	31 Hexachlorobutadiene +	0.32924	0.30719	0.30719	0.050	-6.69732	20.00000	Averaged	
	32 4-Chloro-3-Methylphenol +	0.48921	0.51737	0.51737	0.050	5.75584	20.00000	Averaged	
	33 2-Methylnaphthalene	0.73695	0.70113	0.70113	0.050	-4.86116	50.00000	Averaged	
	145 1-Methylnapthalene	0.65973	0.66239	0.66239	0.050	0.40282	50.00000	Averaged	
	34 Hexachlorocyclopentadiene +	46.71774	50.00000	0.38448	0.050	-6.56451	0.000e+00	Quadratic	<-
	35 2,4,6-Trichlorophenol +	0.39919	0.42804	0.42804	0.050	7.22622	20.00000	Averaged	
	36 2,4,5-Trichlorphenol	0.42243	0.44636	0.44636	0.050	5.66329	50.00000	Averaged	
$	37 2-Fluorobiphenyl	1.46536	1.46752	1.46752	0.050	0.14751	50.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV3.i
Lab File ID: b9731.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m

Injection Date: 30-JUN-2005 10:16
Init. Cal. Date(s): 08-JUN-2005 22-JUN-2005
Init. Cal. Times: 11:51 13:31
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	38 2-Chloronaphthalene	1.23161	1.18935	1.18935	0.050	-3.43114	50.00000	Averaged	
	39 2-Nitroaniline	0.33678	0.35762	0.35762	0.050	6.18741	50.00000	Averaged	
	40 Dimethylphthalate	1.18968	1.27223	1.27223	0.050	6.93878	50.00000	Averaged	
	41 2,6-Dinitrotoluene	0.26471	0.29082	0.29082	0.050	9.86183	50.00000	Averaged	
	42 Acenaphthylene	1.55425	1.88672	1.88672	0.050	21.39106	50.00000	Averaged	
	43 3-Nitroaniline	0.25406	0.29143	0.29143	0.050	14.70969	50.00000	Averaged	
	45 Acenaphthene +	1.12706	1.16703	1.16703	0.050	3.54676	20.00000	Averaged	
	46 2,4-Dinitrophenol ++	57.52252	50.00000	0.15250	0.050	15.04504	0.000e+00	Quadratic	<-
	49 4-Nitrophenol ++	0.27571	0.32099	0.32099	0.050	16.42231	50.00000	Averaged	
	47 Dibenzofuran	1.67153	1.72950	1.72950	0.050	3.46764	50.00000	Averaged	
	48 2,4-Dinitrotoluene	0.33416	0.37492	0.37492	0.050	12.19827	50.00000	Averaged	
	50 Diethylphthalate	1.17195	1.25301	1.25301	0.050	6.91640	50.00000	Averaged	
	52 4-Chlorophenyl-phenylether	0.66009	0.68051	0.68051	0.050	3.09220	50.00000	Averaged	
	51 Fluorene	1.32316	1.42512	1.42512	0.050	7.70544	50.00000	Averaged	
	53 4-Nitroaniline	0.24587	0.28758	0.28758	0.050	16.96671	50.00000	Averaged	
	54 4,6-Dinitro-o-cresol	56.65062	50.00000	0.16513	0.050	13.30125	0.000e+00	Linear	<-
	55 N-nitrosodiphenylamine (1)+	0.55753	0.59485	0.59485	0.050	6.69252	20.00000	Averaged	
	56 Azobenzene	2.13234	2.22441	2.22441	0.050	4.31772	50.00000	Averaged	
$	57 2,4,6-Tribromophenol	0.19707	0.21064	0.21064	0.050	6.88810	50.00000	Averaged	
	58 4-Bromophenyl-phenylether	0.23271	0.22721	0.22721	0.050	-2.36375	50.00000	Averaged	
	59 Hexachlorobenzene	0.28621	0.28634	0.28634	0.050	0.04645	50.00000	Averaged	
	60 Pentachlorophenol +	0.13408	0.15065	0.15065	0.050	12.35391	20.00000	Averaged	
	62 Phenanthrene	1.15761	1.16241	1.16241	0.050	0.41460	50.00000	Averaged	
	63 Anthracene	1.13968	1.15991	1.15991	0.050	1.77511	50.00000	Averaged	
	64 Carbazole	1.05055	1.09267	1.09267	0.050	4.00968	50.00000	Averaged	
	65 Di-n-butylphthalate	1.14477	1.19050	1.19050	0.050	3.99415	50.00000	Averaged	
	67 Fluoranthene +	1.29515	1.34792	1.34792	0.050	4.07450	20.00000	Averaged	
	68 Benzidine	0.02965	0.03707	0.03707	0.050	25.02761	50.00000	Averaged	<-
	69 Pyrene	1.17401	1.26812	1.26812	0.050	8.01620	50.00000	Averaged	
$	70 Terphenyl-d14	0.79956	0.86818	0.86818	0.050	8.58265	50.00000	Averaged	
	71 Butylbenzylphthalate	0.48185	0.52065	0.52065	0.050	8.05245	50.00000	Averaged	
	73 3,3'-Dichlorobenzidine	0.41647	0.45608	0.45608	0.050	9.51276	50.00000	Averaged	
	72 Benzo(a)anthracene	1.27710	1.26762	1.26762	0.050	-0.74268	50.00000	Averaged	
	76 bis(2-Ethylhexyl)phthalate	0.66902	0.65246	0.65246	0.050	-2.47438	50.00000	Averaged	
	75 Chrysene	1.23536	1.22030	1.22030	0.050	-1.21849	50.00000	Averaged	
	77 Di-n-octylphthalate +	1.22434	1.13792	1.13792	0.050	-7.05826	20.00000	Averaged	

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: MSSV3.i
Lab File ID: b9731.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m

Injection Date: 30-JUN-2005 10:16
Init. Cal. Date(s): 08-JUN-2005 22-JUN-2005
Init. Cal. Times: 11:51 13:31
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	78 Benzo(b)fluoranthene	1.23192	1.14531	1.14531	0.050	-7.03036	50.00000	Averaged	
	79 Benzo(k)fluoranthene	1.26989	1.26545	1.26545	0.050	-0.34951	50.00000	Averaged	
	80 Benzo(a)pyrene +	1.10191	1.05601	1.05601	0.050	-4.16513	20.00000	Averaged	
	82 Indeno(1,2,3-cd)pyrene	1.73948	1.50355	1.50355	0.050	-13.56349	50.00000	Averaged	
	83 Dibenzo(a,h)anthracene	1.41630	1.21181	1.21181	0.050	-14.43828	50.00000	Averaged	
	84 Benzo(g,h,i)perylene	45.08949	50.00000	1.30635	0.050	-9.82102	0.000e+00	Quadratic	<-
M	66 Total Methylphenol	1.87379	2.06398	2.06398	0.050	10.15008	50.00000	Averaged	
	91 Acetophenone	3.01205	3.29004	3.29004	0.050	9.22950	50.00000	Averaged	
	155 Benzaldehyde	0.47602	0.62490	0.62490	0.050	31.27692	50.00000	Averaged	
	156 Caprolactam	0.13340	0.15807	0.15807	0.050	18.49085	50.00000	Averaged	
	157 Biphenyl	0.81512	0.86037	0.86037	0.050	5.55142	50.00000	Averaged	
	158 Atrazine	0.02161	0.01705	0.01705	0.050	-21.11574	50.00000	Averaged	<-
	180 1,4-Dioxane	0.55984	0.46205	0.46205	0.050	-17.46853	50.00000	Averaged	

GCAL, Inc.

Data file : /var/chem/MSSV3.i/2050630.s.b/b9730.d
Lab Smp Id: 1100 Client Smp ID: DFTPP
Inj Date : 30-JUN-2005 10:03
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1100*4-16-4
Misc Info : DFTPP*MSSV~2718~
Comment :
Method : /var/chem/MSSV3.i/2050630.s.b/dftpp_03.m
Meth Date : 21-Jun-2005 11:27 jar3 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.775	4.922	-0.147	198	30704			100.00- 100.00	93.49
4.775	4.922	-0.147	51	11637			30.00- 60.00	37.90
4.775	4.922	-0.147	68	0			0.00- 2.00	0.00
4.775	4.922	-0.147	69	29546			0.00- 0.00	96.23
4.775	4.922	-0.147	70	340			0.00- 2.00	1.15
4.775	4.922	-0.147	127	15862			40.00- 60.00	51.66
4.775	4.922	-0.147	197	0			0.00- 1.00	0.00
4.775	4.922	-0.147	199	1962			5.00- 9.00	6.39
4.775	4.922	-0.147	275	8261			10.00- 30.00	26.91
4.775	4.922	-0.147	365	1381			1.00- 0.00	4.50
4.775	4.922	-0.147	441	3684			0.01- 99.99	80.65
4.775	4.922	-0.147	442	20526			40.00- 100.00	66.85

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp (continued)								
4.775	4.922	-0.147	443	4568			17.00- 23.00	22.25

Data File: /var/chem/MSSV3.i/2050630.s.b/b9730.d

Date : 30-JUN-2005 10:03

Client ID: DFTPP

Instrument: MSSV3.i

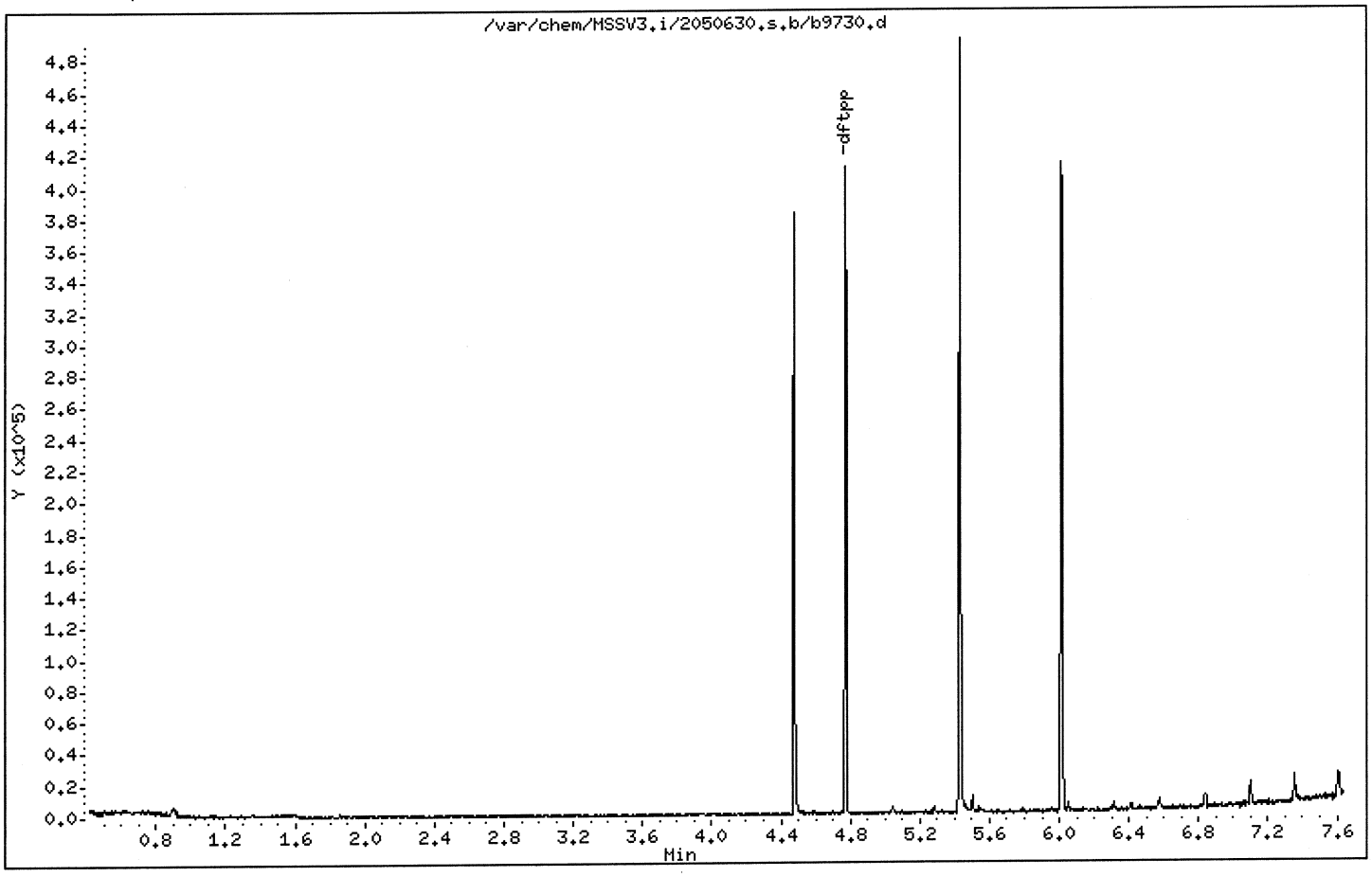
Sample Info: 1100*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00



Data File: /var/chem/MSSV3.i/2050630.s.b/b9730.d

Date : 30-JUN-2005 10:03

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100*4-16-4

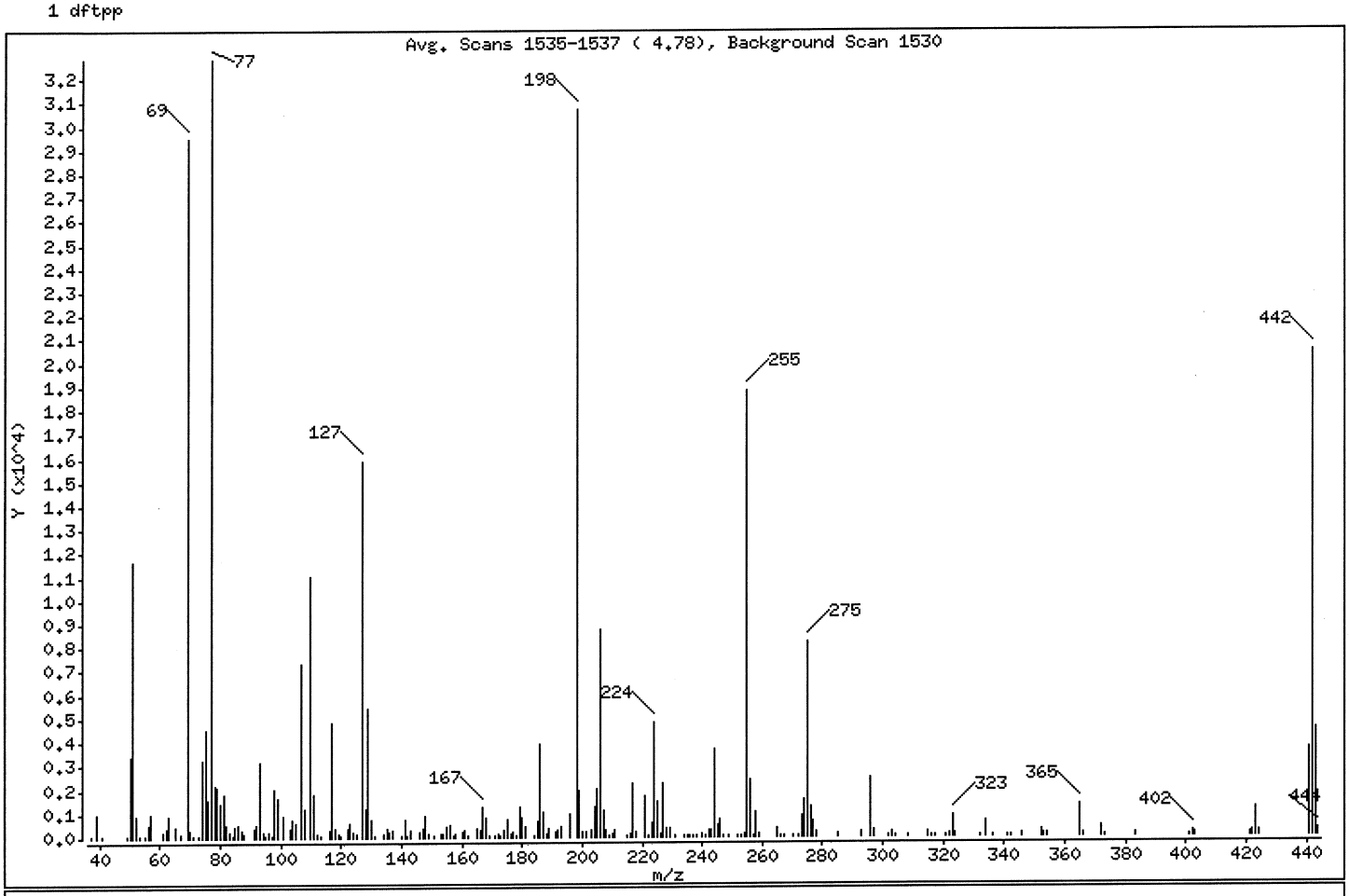
Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.90
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	96.23
70	Less than 2.00% of mass 69	1.11 (1.15)
127	40.00 - 60.00% of mass 198	51.66
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.39
275	10.00 - 30.00% of mass 198	26.91
365	Greater than 1.00% of mass 198	4.50
441	Present, but less than mass 443	12.00
442	40.00 - 100.00% of mass 198	66.85
443	17.00 - 23.00% of mass 442	14.88 (22.25)

Data File: /var/chem/MSSV3.i/2050630.s.b/b9730.d

Date : 30-JUN-2005 10:03

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: b9730.d
Spectrum: Avg. Scans 1535-1537 (4.78), Background Scan 1530
Location of Maximum: 77.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	56	117.00	4811	188.00	173	265.00	344
39.00	1018	118.00	372	189.00	355	266.00	57
41.00	105	119.00	121	191.00	190	267.00	57
49.00	85	120.00	73	192.00	308	270.00	53
50.00	3382	122.00	355	193.00	419	272.00	52
51.00	11637	123.00	611	196.00	947	273.00	917
52.00	935	124.00	198	198.00	30704	274.00	1596
53.00	59	125.00	184	199.00	1962	275.00	8261
55.00	80	127.00	15862	200.00	213	276.00	1306
56.00	493	128.00	1200	201.00	222	277.00	660
57.00	1021	129.00	5459	203.00	298	278.00	196
61.00	259	130.00	748	204.00	1254	285.00	161
62.00	348	131.00	53	205.00	2031	293.00	225
63.00	925	134.00	143	206.00	8813	296.00	2503
65.00	422	135.00	373	207.00	1133	297.00	293
67.00	139	136.00	207	208.00	340	302.00	57
69.00	29544	137.00	338	209.00	95	303.00	259
70.00	340	140.00	55	210.00	162	304.00	98
71.00	67	141.00	777	211.00	318	308.00	61
73.00	88	142.00	61	215.00	93	315.00	216
74.00	3273	143.00	271	216.00	180	316.00	109
75.00	4560	146.00	203	217.00	2247	317.00	54
76.00	1587	147.00	382	218.00	251	321.00	74
77.00	32840	148.00	920	221.00	1712	322.00	146
78.00	2229	149.00	144	222.00	98	323.00	910
79.00	2134	151.00	63	223.00	641	324.00	141
80.00	1440	153.00	165	224.00	4805	332.00	55
81.00	1842	154.00	139	225.00	1487	334.00	700
82.00	566	155.00	433	226.00	161	336.00	77
83.00	228	156.00	528	227.00	2269	341.00	50
84.00	52	157.00	61	228.00	384	342.00	51
85.00	424	158.00	129	229.00	409	346.00	172
86.00	546	160.00	250	231.00	113	352.00	273
87.00	324	161.00	327	234.00	69	353.00	164
88.00	134	162.00	50	235.00	85	354.00	157

Data File: /var/chem/MSSV3.i/2050630.s.b/b9730.d

Date : 30-JUN-2005 10:03

Client ID: DFTPP

Instrument: MSSV3.i

Sample Info: 1100*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: b9730.d
Spectrum: Avg. Scans 1535-1537 (4.78), Background Scan 1530
Location of Maximum: 77.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
91.00	411	165.00	348	236.00	51	365.00	1381
92.00	566	166.00	284	237.00	111	366.00	177
93.00	3166	167.00	1259	238.00	52	372.00	469
94.00	220	168.00	821	240.00	114	373.00	60
95.00	79	169.00	54	241.00	61	383.00	138
96.00	246	171.00	83	242.00	329	401.00	50
97.00	65	172.00	167	243.00	338	402.00	203
98.00	2062	173.00	91	244.00	3706	403.00	157
99.00	1674	174.00	283	245.00	544	421.00	136
101.00	923	175.00	743	246.00	777	422.00	205
103.00	364	176.00	156	247.00	87	423.00	1182
104.00	762	177.00	233	249.00	51	424.00	214
105.00	631	178.00	53	252.00	57	441.00	3684
107.00	7351	179.00	1321	253.00	52	442.00	20520
108.00	1190	180.00	868	254.00	137	443.00	4568
110.00	11049	181.00	487	255.00	18840	444.00	303
111.00	1800	184.00	63	256.00	2403		
112.00	119	185.00	706	257.00	78		
113.00	73	186.00	3959	258.00	1086		
116.00	298	187.00	1079	259.00	152		

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV3.i/2050630.s.b/b9731.d
Lab Smp Id: 1400 Client Smp ID: STD050
Inj Date : 30-JUN-2005 10:16
Operator : jar3 Inst ID: MSSV3.i
Smp Info : 1400*4-24-2
Misc Info : STD050*MSSV~2718~
Comment :
Method : /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m
Meth Date : 30-Jun-2005 10:26 jar3 Quant Type: ISTD
Cal Date : 22-JUN-2005 11:20 Cal File: b9415.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
2 Pyridine	79	0.486	0.486	(0.272)	34363	50.0000	38.7
1 n-Nitrosodimethylamine	42	0.478	0.478	(0.268)	7980	50.0000	43.2
$ 3 2-Fluorophenol	112	0.878	0.878	(0.492)	66809	50.0000	50.3
$ 4 Phenol-d5	99	1.605	1.605	(0.898)	111588	50.0000	53.2
5 Aniline	93	1.565	1.565	(0.876)	81752	50.0000	65.0
6 Phenol +	94	1.613	1.613	(0.903)	132189	50.0000	54.2
7 bis(-2-Chloroethyl)Ether	63	1.613	1.613	(0.903)	90684	50.0000	60.1
8 2-Chlorophenol	128	1.662	1.662	(0.930)	49364	50.0000	52.0
9 1,3-Dichlorobenzene	146	1.747	1.747	(0.978)	58100	50.0000	50.2
* 10 1,4-Dichlorobenzene-d4	152	1.786	1.786	(1.000)	29191	40.0000	
11 1,4-Dichlorobenzene +	146	1.798	1.798	(1.006)	59312	50.0000	51.1
12 Benzyl alcohol	108	1.903	1.903	(1.065)	55388	50.0000	57.1
13 1,2-Dichlorobenzene	146	1.897	1.897	(1.062)	55664	50.0000	50.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	15 2-Methylphenol	108	2.008	2.008	(1.124)	73994	50.0000	53.0
	14 Bis(2-chloroisopropyl)ether	45	1.982	1.982	(1.110)	49937	50.0000	58.7
	17 3- & 4-Methylphenol	108	2.110	2.110	(1.181)	76631	50.0000	55.0
	16 N-Nitroso-di-n-propylamine++	70	2.070	2.070	(1.159)	102419	50.0000	53.6
	18 Hexachloroethane	117	2.116	2.116	(1.184)	34112	50.0000	50.5
$	19 Nitrobenzene-d5	82	2.158	2.158	(0.831)	143368	50.0000	49.6
	20 Nitrobenzene	77	2.170	2.170	(0.835)	146916	50.0000	48.4
	21 Isophorone	82	2.320	2.320	(0.893)	198898	50.0000	46.5
	22 2-Nitrophenol +	139	2.371	2.371	(0.913)	25579	50.0000	53.0
	23 2,4-Dimethyphenol	107	2.428	2.428	(0.934)	89315	50.0000	52.3
	24 bis(-2-Chloroethoxy)methane	93	2.465	2.465	(0.949)	120939	50.0000	51.1
	25 Benzoic Acid	122	2.519	2.519	(0.969)	18774	50.0000	62.8
	26 2,4-Dichlorophenol +	162	2.539	2.539	(0.977)	39316	50.0000	50.7
	27 1,2,4-Trichlorobenzene	180	2.567	2.567	(0.988)	50426	50.0000	47.9
*	28 Naphthalene-d8	136	2.598	2.598	(1.000)	102268	40.0000	
	29 Naphthalene	128	2.612	2.612	(1.005)	144830	50.0000	49.9
	30 4-Chloroaniline	127	2.661	2.661	(1.024)	48611	50.0000	57.1
	31 Hexachlorobutadiene +	225	2.692	2.692	(1.036)	39269	50.0000	46.7
	32 4-Chloro-3-Methylphenol +	107	2.993	2.993	(1.152)	66138	50.0000	52.9
	33 2-Methylnaphthalene	142	3.035	3.035	(1.168)	89629	50.0000	47.6
	145 1-Methylnapthalene	142	3.095	3.095	(1.191)	84676	50.0000	50.2
	34 Hexachlorocyclopentadiene ++	237	3.135	3.135	(0.854)	27331	50.0000	46.7
	35 2,4,6-Trichlorophenol +	196	3.225	3.225	(0.879)	30427	50.0000	53.6
	36 2,4,5-Trichlorphenol	196	3.262	3.262	(0.889)	31730	50.0000	52.8
$	37 2-Fluorobiphenyl	172	3.265	3.265	(0.889)	104321	50.0000	50.1
	38 2-Chloronaphthalene	162	3.333	3.333	(0.908)	84547	50.0000	48.3
	39 2-Nitroaniline	138	3.410	3.410	(0.929)	25422	50.0000	53.1
	40 Dimethylphthalate	163	3.521	3.521	(0.959)	90438	50.0000	53.5
	41 2,6-Dinitrotoluene	165	3.557	3.557	(0.969)	20673	50.0000	54.9
	42 Acenaphthylene	152	3.583	3.583	(0.976)	134120	50.0000	60.7
	43 3-Nitroaniline	138	3.665	3.665	(0.998)	20716	50.0000	57.4
*	44 Acenaphthene-d10	164	3.671	3.671	(1.000)	56869	40.0000	
	45 Acenaphthene +	153	3.691	3.691	(1.005)	82960	50.0000	51.8
	46 2,4-Dinitrophenol ++	184	3.728	3.728	(1.015)	10840	50.0000	57.5
	49 4-Nitrophenol ++	109	3.821	3.821	(1.041)	22818	50.0000	58.2
	47 Dibenzofuran	168	3.796	3.796	(1.034)	122944	50.0000	51.7
	48 2,4-Dinitrotoluene	165	3.804	3.804	(1.036)	26652	50.0000	56.1
	50 Diethylphthalate	149	3.955	3.955	(1.077)	89072	50.0000	53.5
	52 4-Chlorophenyl-phenylether	204	4.012	4.012	(1.093)	48374	50.0000	51.5
	51 Fluorene	166	4.006	4.006	(1.091)	101306	50.0000	53.9
	53 4-Nitroaniline	138	4.040	4.040	(1.101)	20443	50.0000	58.5
	54 4,6-Dinitro-o-cresol	198	4.054	4.054	(0.886)	18645	50.0000	56.7
	55 N-nitrosodiphenylamine (1)+	169	4.088	4.088	(0.893)	67167	50.0000	53.3
	56 Azobenzene	77	4.108	4.108	(0.898)	251168	50.0000	52.2
$	57 2,4,6-Tribromophenol	332	4.159	4.159	(1.133)	14973	50.0000	53.4
	58 4-Bromophenyl-phenylether	248	4.310	4.310	(0.942)	25654	50.0000	48.8
	59 Hexachlorobenzene	284	4.344	4.344	(0.949)	32332	50.0000	50.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	60 Pentachlorophenol +	266	4.480	4.480	(0.979)	17010	50.0000	56.2
*	61 Phenanthrene-d10	188	4.576	4.576	(1.000)	90331	40.0000	
	62 Phenanthrene	178	4.591	4.591	(1.003)	131253	50.0000	50.2
	63 Anthracene	178	4.622	4.622	(1.010)	130971	50.0000	50.9
	64 Carbazole	167	4.735	4.735	(1.035)	123378	50.0000	52.0
	65 Di-n-butylphthalate	149	4.954	4.954	(1.082)	134424	50.0000	52.0
	67 Fluoranthene +	202	5.329	5.329	(1.164)	152199	50.0000	52.0
	68 Benzidine	184	5.434	5.434	(0.854)	4722	50.0000	62.5
	69 Pyrene	202	5.476	5.476	(0.860)	161580	50.0000	54.0
$	70 Terphenyl-d14	244	5.595	5.595	(0.879)	110620	50.0000	54.3
	71 Butylbenzylphthalate	149	5.959	5.959	(0.936)	66339	50.0000	54.0
	73 3,3'-Dichlorobenzidine	252	6.353	6.353	(0.998)	58112	50.0000	54.8
	72 Benzo(a)anthracene	228	6.356	6.356	(0.999)	161515	50.0000	49.6
*	74 Chrysene-d12	240	6.365	6.365	(1.000)	101933	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.416	6.416	(1.008)	83134	50.0000	48.8
	75 Chrysene	228	6.384	6.384	(1.003)	155487	50.0000	49.4
	77 Di-n-octylphthalate +	149	6.935	6.935	(1.090)	144990	50.0000	46.5
	78 Benzo(b)fluoranthene	252	7.193	7.193	(0.962)	163005	50.0000	46.5
	79 Benzo(k)fluoranthene	252	7.213	7.213	(0.964)	180105	50.0000	49.8
	80 Benzo(a)pyrene +	252	7.437	7.437	(0.994)	150297	50.0000	47.9
*	81 Perylene-d12	264	7.480	7.480	(1.000)	113859	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.232	8.232	(1.101)	213991	50.0000	43.2
	83 Dibenzo(a,h)anthracene	278	8.246	8.246	(1.102)	172470	50.0000	42.8
	84 Benzo(g,h,i)perylene	276	8.411	8.411	(1.124)	185926	50.0000	45.1
M	66 Total Methylphenol	108				150626	100.000	110
	91 Acetophenone	105	2.062	2.062	(1.154)	120051	50.0000	54.6
	155 Benzaldehyde	77	1.477	1.477	(0.827)	22802	50.0000	65.6
	156 Caprolactam	113	2.876	2.876	(1.107)	20206	50.0000	59.2
	157 Biphenyl	154	3.325	3.325	(1.280)	109986	50.0000	52.8
	158 Atrazine	200	4.423	4.423	(0.966)	1924	50.0000	39.4
	180 1,4-Dioxane	88	0.430	0.430	(0.241)	16859	50.0000	41.3

Data File: /var/chem/MSSV3.i/2050630.s.b/b9731.d

Date : 30-JUN-2005 10:16

Client ID: STD050

Sample Info: 1400*4-24-2

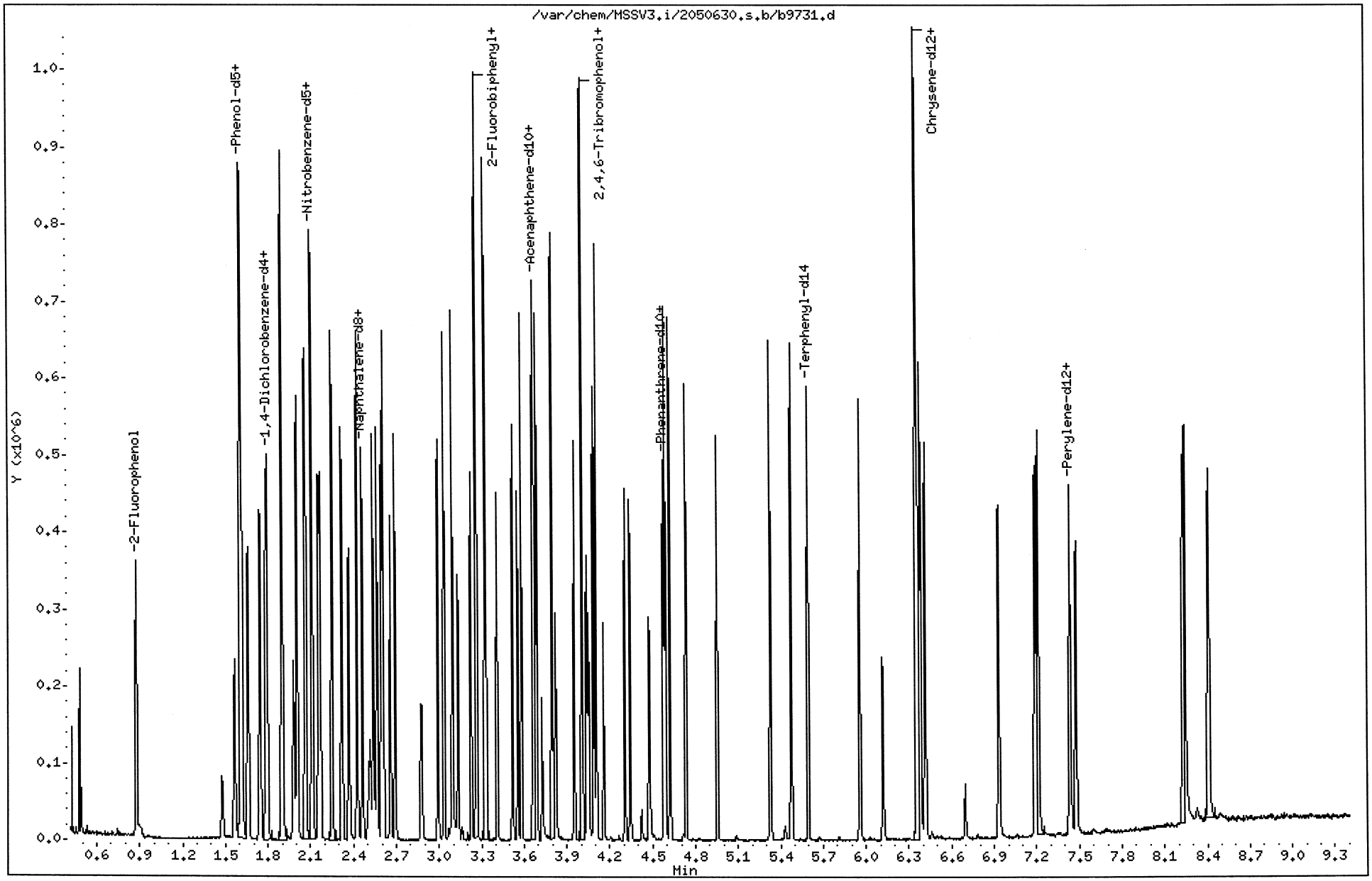
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV3.i

Operator: jar3

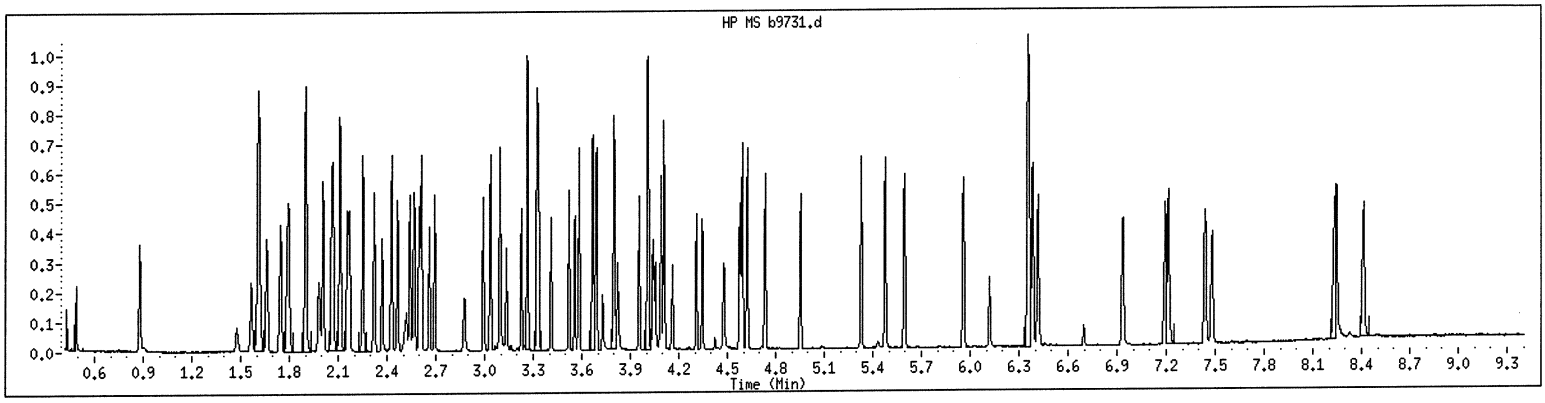
Column diameter: 0.25



Data file : /var/chem/MSSV3.i/2050630.s.b/b9731.d
Report Date: 06/30/2005 10:26

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1400	SampleType	: CCALIB_5
Injection Date	: 30-JUN-2005 10:16	Instrument	: MSSV3.i
Operator	: jar3		
Sample Info	: 1400*4-24-2		
Misc Info	: STD050*MSSV~2718~		
Method	: /var/chem/MSSV3.i/2050630.s.b/8270CE_03.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: MB250576
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250576
Date Collected: Time:
Date Received:
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1227
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L

Lab File ID: 050628/H0000714

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	1.00	U	0.291	1.00
91-57-6	2-Methylnaphthalene	1.00	U	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	1.00	U	0.153	1.00
120-12-7	Anthracene	0.100	U	0.024	0.100
56-55-3	Benzo(a)anthracene	0.100	U	0.032	0.100
50-32-8	Benzo(a)pyrene	0.100	U	0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.100	U	0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.100	U	0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.100	U	0.033	0.100
218-01-9	Chrysene	0.100	U	0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.100	U	0.029	0.100
206-44-0	Fluoranthene	0.100	U	0.044	0.100
86-73-7	Fluorene	0.500	U	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.250	U	0.041	0.250
91-20-3	Naphthalene	0.250	U	0.124	0.250
85-01-8	Phenanthrene	0.100	U	0.025	0.100
129-00-0	Pyrene	0.100	U	0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000714.d
Lab Smp Id: 250576 Client Smp ID: 250576
Inj Date : 28-JUN-2005 12:27
Operator : jar Inst ID: hplc1.i
Smp Info : 250576
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
$ 11 p-Terphenyl	3.203	3.307	-0.104	13376	1.64579	1.65(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000714.d

Date : 28-JUN-2005 12:27

Client ID: 250576

Instrument: hplc1.i

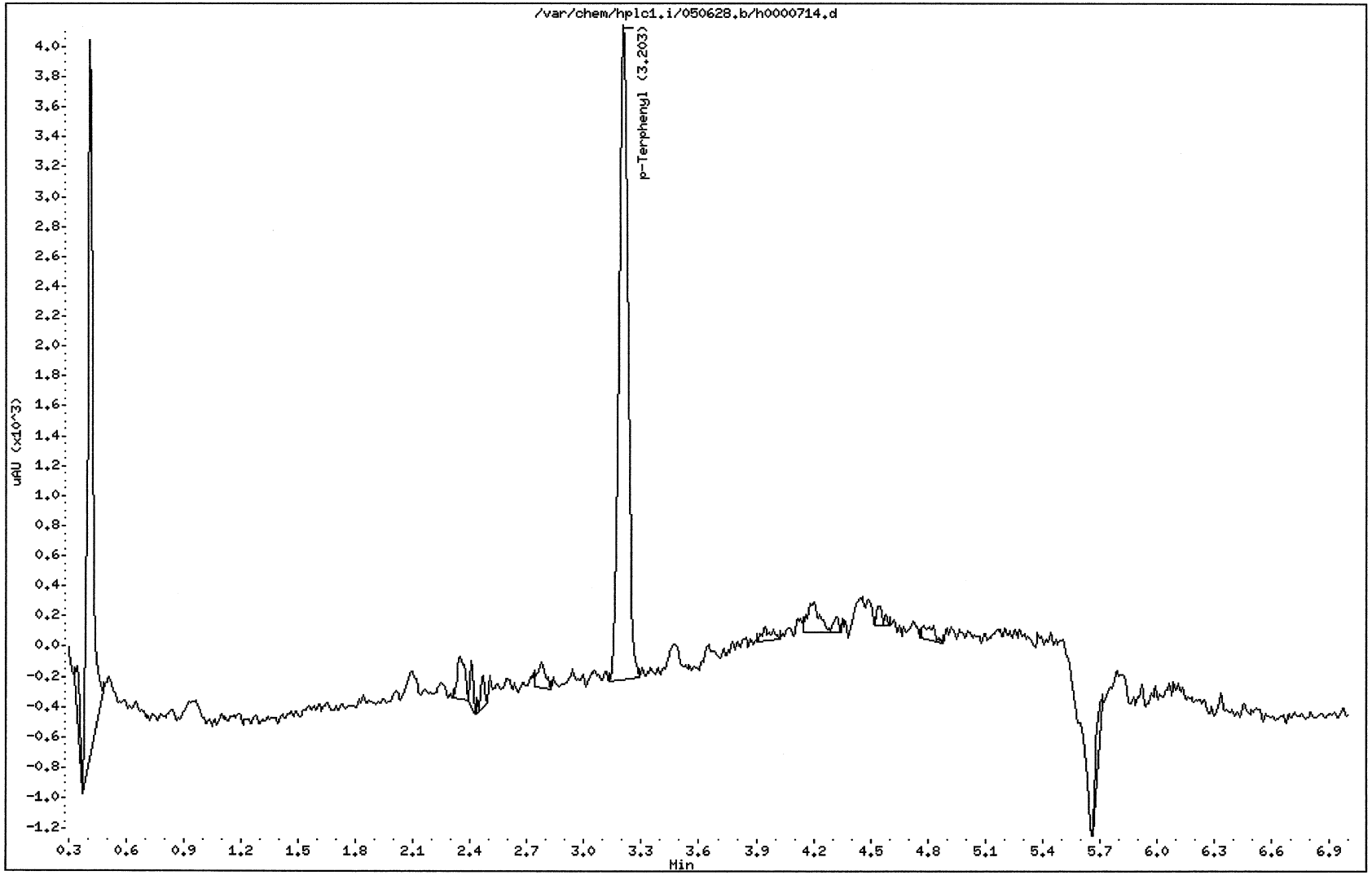
Sample Info: 250576

Volume Injected (uL): 10.0

Operator: jar

Column phase: 201TP-0.15M

Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: LCS250577
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250577
Date Collected: Time:
Date Received:
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1235
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L
Lab File ID: 050628/H0000715

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.60		0.291	1.00
91-57-6	2-Methylnaphthalene	4.16		0.142	1.00
83-32-9	Acenaphthene	4.20		0.331	1.00
208-96-8	Acenaphthylene	4.69		0.153	1.00
120-12-7	Anthracene	4.18		0.024	0.100
56-55-3	Benzo(a)anthracene	4.71		0.032	0.100
50-32-8	Benzo(a)pyrene	4.43		0.033	0.100
205-99-2	Benzo(b)fluoranthene	4.58		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	4.64		0.016	0.100
207-08-9	Benzo(k)fluoranthene	4.50		0.033	0.100
218-01-9	Chrysene	4.76		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	3.01		0.029	0.100
206-44-0	Fluoranthene	4.64		0.044	0.100
86-73-7	Fluorene	4.52		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	4.96		0.041	0.250
91-20-3	Naphthalene	4.47		0.124	0.250
85-01-8	Phenanthrene	4.49		0.025	0.100
129-00-0	Pyrene	5.09		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000715.d
Lab Smp Id: 250577 Client Smp ID: 250577
Inj Date : 28-JUN-2005 12:35
Operator : jar Inst ID: hplc1.i
Smp Info : 250577
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.196	1.207	-0.011	11290	4.47435	4.47
2 Acenaphthylene	1.436	1.447	-0.011	8556	4.68676	4.69
3 1-Methynaphthalene	1.569	1.580	-0.011	7303	4.59890	4.60
4 2-Methylnaphthalene	1.656	1.673	-0.017	9064	4.15864	4.16
5 Acenaphthene	1.736	1.747	-0.011	4456	4.20449	4.20
6 Fluorene	1.849	1.867	-0.018	53280	4.51842	4.52
7 Phenanthrene	2.109	2.120	-0.011	118120	4.48621	4.49
8 Anthracene	2.362	2.373	-0.011	207865	4.17549	4.18
9 Fluoranthene	2.616	2.627	-0.011	33071	4.64401	4.64
10 Pyrene	2.796	2.807	-0.011	31003	5.09068	5.09
$ 11 p-Terphenyl	3.209	3.307	-0.098	13952	1.71673	1.72(M)
12 Benzo(a)Anthracene	3.482	3.493	-0.011	82078	4.71181	4.71
13 Chrysene	3.649	3.667	-0.018	136769	4.76433	4.76

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	4.162	4.173	-0.011	93933	4.58346	4.58
15 Benzo(k)Fluoranthene	4.416	4.427	-0.011	58258	4.49817	4.50
16 Benzo(a)Pyrene	4.602	4.613	-0.011	87132	4.42944	4.43
17 Dibenzo(a,h)Anthracene	4.996	5.000	-0.004	15470	3.01144	3.01
18 Benzo(g,h,i)Perylene	5.209	5.213	-0.004	33210	4.63616	4.64
19 Indeno(1,2,3-c,d)Pyrene	5.476	5.480	-0.004	72292	4.95591	4.96

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000715.d

Date : 28-JUN-2005 12:35

Client ID: 250577

Sample Info: 250577

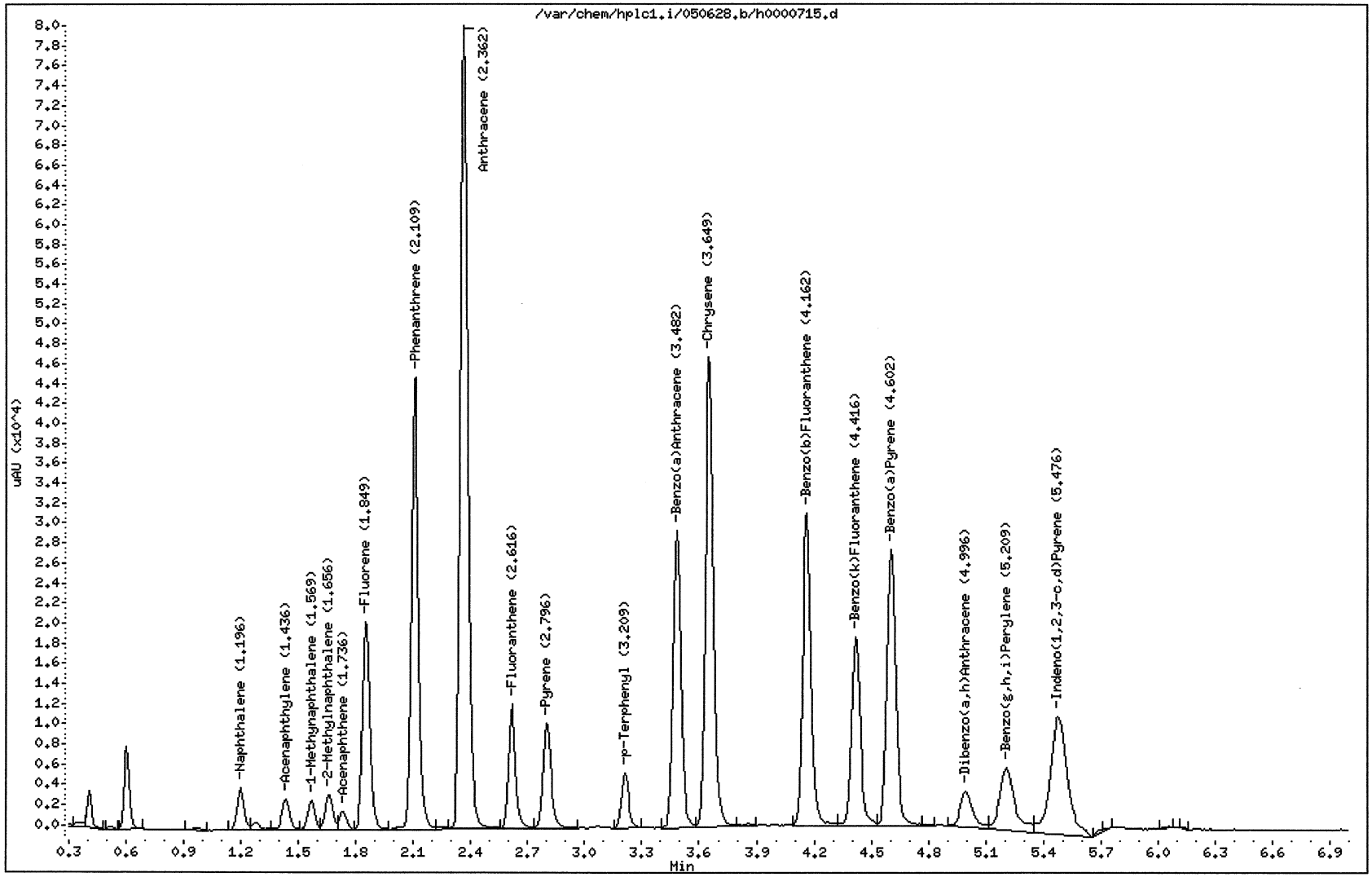
Volume Injected (uL): 10.0

Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jar

Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: LCSD250578
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250578
Date Collected: Time:
Date Received:
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1243
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L

Lab File ID: 050628/H0000716

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.13		0.291	1.00
91-57-6	2-Methylnaphthalene	3.59		0.142	1.00
83-32-9	Acenaphthene	3.82		0.331	1.00
208-96-8	Acenaphthylene	4.20		0.153	1.00
120-12-7	Anthracene	4.16		0.024	0.100
56-55-3	Benzo(a)anthracene	4.62		0.032	0.100
50-32-8	Benzo(a)pyrene	4.29		0.033	0.100
205-99-2	Benzo(b)fluoranthene	4.46		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	4.28		0.016	0.100
207-08-9	Benzo(k)fluoranthene	4.34		0.033	0.100
218-01-9	Chrysene	4.72		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	2.71		0.029	0.100
206-44-0	Fluoranthene	4.52		0.044	0.100
86-73-7	Fluorene	4.44		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	4.60		0.041	0.250
91-20-3	Naphthalene	4.08		0.124	0.250
85-01-8	Phenanthrene	4.44		0.025	0.100
129-00-0	Pyrene	4.96		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000716.d
Lab Smp Id: 250578 Client Smp ID: 250578
Inj Date : 28-JUN-2005 12:43
Operator : jar Inst ID: hplc1.i
Smp Info : 250578
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.199	1.207	-0.008	10287	4.07685	4.08
2 Acenaphthylene	1.439	1.447	-0.008	7661	4.19650	4.20
3 1-Methynaphthalene	1.572	1.580	-0.008	6553	4.12660	4.13
4 2-Methylnaphthalene	1.659	1.673	-0.014	7819	3.58742	3.59
5 Acenaphthene	1.739	1.747	-0.008	4045	3.81669	3.82
6 Fluorene	1.852	1.867	-0.015	52411	4.44472	4.44
7 Phenanthrene	2.112	2.120	-0.008	116899	4.43983	4.44
8 Anthracene	2.366	2.373	-0.007	207146	4.16105	4.16
9 Fluoranthene	2.619	2.627	-0.008	32218	4.52423	4.52
10 Pyrene	2.799	2.807	-0.008	30203	4.95932	4.96
$ 11 p-Terphenyl	3.212	3.307	-0.095	13539	1.66584	1.67(M)
12 Benzo(a)Anthracene	3.493	3.493	0.000	80520	4.62237	4.62
13 Chrysene	3.659	3.667	-0.008	135390	4.71629	4.72

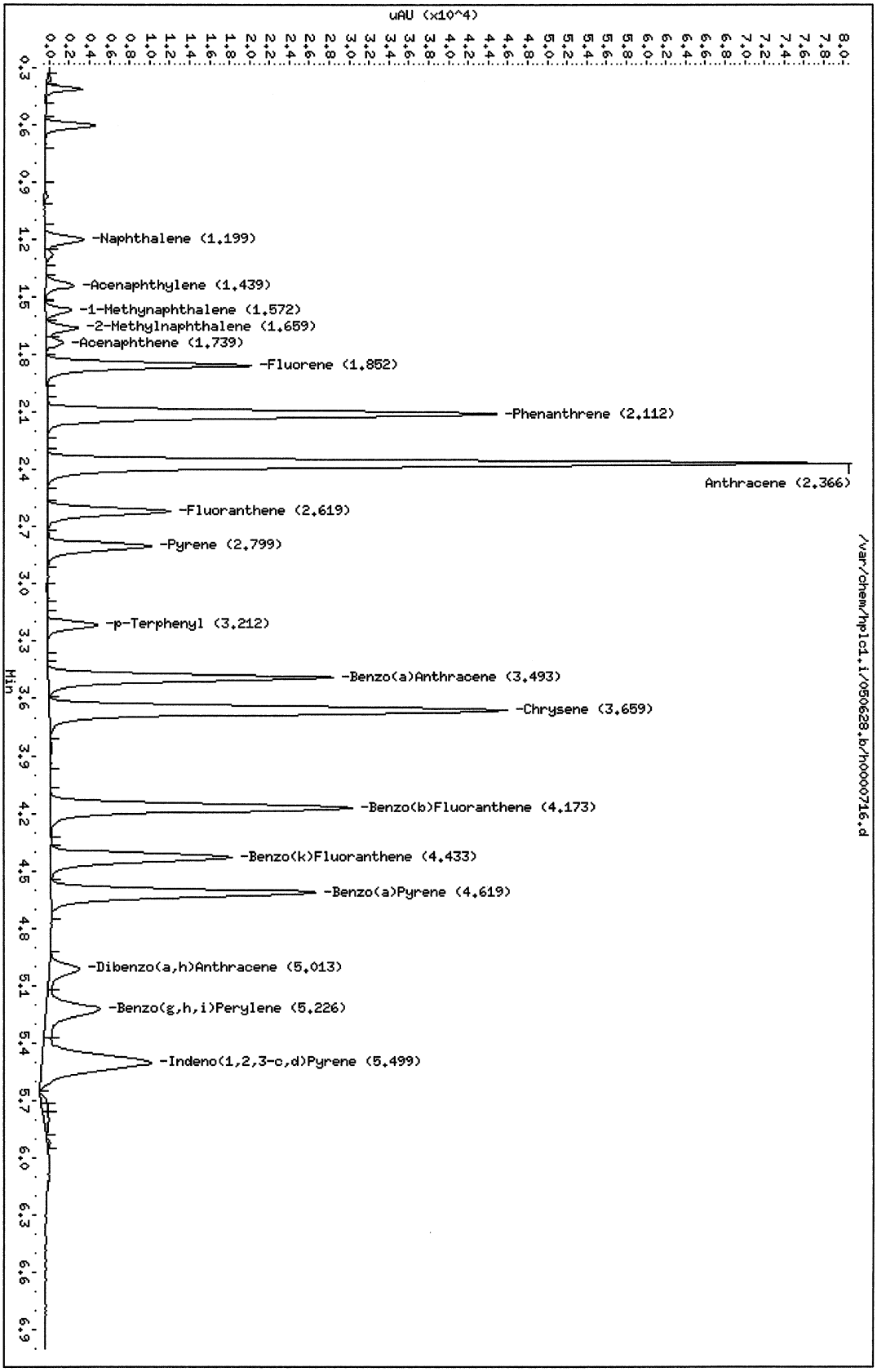
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	4.173	4.173	0.000	91312	4.45557	4.46
15 Benzo(k)Fluoranthene	4.433	4.427	0.006	56169	4.33687	4.34
16 Benzo(a)Pyrene	4.619	4.613	0.006	84389	4.29000	4.29
17 Dibenzo(a,h)Anthracene	5.013	5.000	0.013	13924	2.71050	2.71
18 Benzo(g,h,i)Perylene	5.226	5.213	0.013	30623	4.27501	4.28
19 Indeno(1,2,3-c,d)Pyrene	5.499	5.480	0.019	67052	4.59669	4.60

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000716.d
Date : 28-JUN-2005 12:43
Client ID: 250578
Sample Info: 250578
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-MS-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170507
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1339
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L
Lab File ID: 050628/H0000723

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.40		0.291	1.00
91-57-6	2-Methylnaphthalene	3.85		0.142	1.00
83-32-9	Acenaphthene	3.79		0.331	1.00
208-96-8	Acenaphthylene	4.32		0.153	1.00
120-12-7	Anthracene	3.76		0.024	0.100
56-55-3	Benzo(a)anthracene	3.57		0.032	0.100
50-32-8	Benzo(a)pyrene	3.05		0.033	0.100
205-99-2	Benzo(b)fluoranthene	3.34		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	4.05		0.016	0.100
207-08-9	Benzo(k)fluoranthene	3.09		0.033	0.100
218-01-9	Chrysene	3.31		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	3.11		0.029	0.100
206-44-0	Fluoranthene	4.22		0.044	0.100
86-73-7	Fluorene	4.46		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	4.03		0.041	0.250
91-20-3	Naphthalene	4.36		0.124	0.250
85-01-8	Phenanthrene	4.37		0.025	0.100
129-00-0	Pyrene	4.66		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000723.d
Lab Smp Id: 20506170507 Client Smp ID: 20506170507
Inj Date : 28-JUN-2005 13:39
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170507
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.206	1.207	-0.001	11001	4.35982	4.36
2 Acenaphthylene	1.446	1.447	-0.001	7878	4.31536	4.32
3 1-Methynaphthalene	1.579	1.580	-0.001	6987	4.39990	4.40
4 2-Methylnaphthalene	1.666	1.673	-0.007	8400	3.85399	3.85
5 Acenaphthene	1.739	1.747	-0.008	4022	3.79498	3.79
6 Fluorene	1.859	1.867	-0.008	52575	4.45863	4.46
7 Phenanthrene	2.112	2.120	-0.008	115123	4.37238	4.37
8 Anthracene	2.373	2.373	0.000	187201	3.76040	3.76
9 Fluoranthene	2.619	2.627	-0.008	30046	4.21922	4.22
10 Pyrene	2.806	2.807	-0.001	28406	4.66425	4.66
$ 11 p-Terphenyl	3.212	3.307	-0.095	13097	1.61151	1.61(M)
12 Benzo(a)Anthracene	3.486	3.493	-0.007	62160	3.56839	3.57
13 Chrysene	3.652	3.667	-0.015	95156	3.31475	3.31

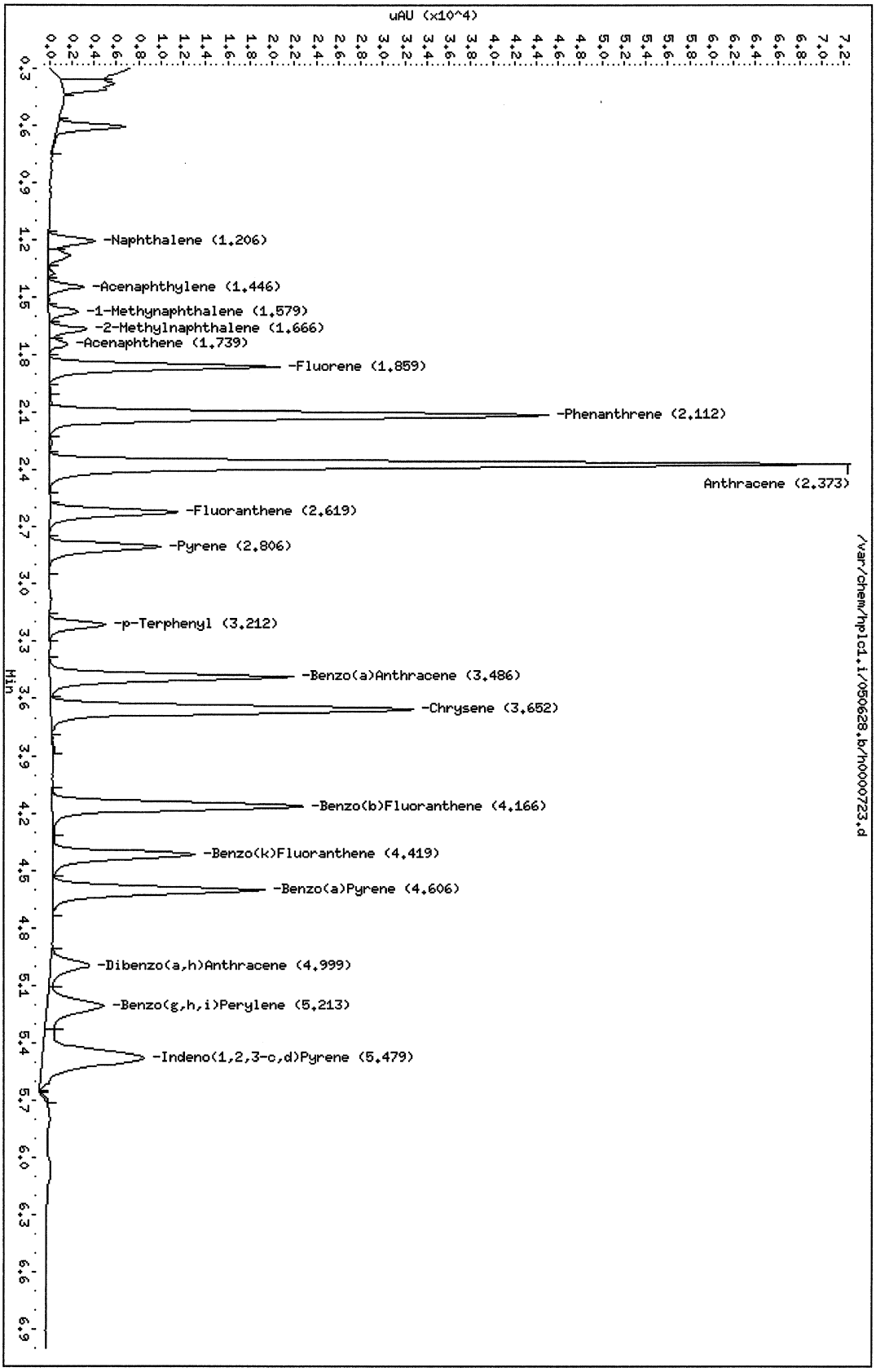
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	4.166	4.173	-0.007	68510	3.34294	3.34
15 Benzo(k)Fluoranthene	4.419	4.427	-0.008	40067	3.09362	3.09
16 Benzo(a)Pyrene	4.606	4.613	-0.007	59942	3.04721	3.05
17 Dibenzo(a,h)Anthracene	4.999	5.000	-0.001	15954	3.10566	3.11
18 Benzo(g,h,i)Perylene	5.213	5.213	0.000	29008	4.04955	4.05
19 Indeno(1,2,3-c,d)Pyrene	5.479	5.480	-0.001	58851	4.03448	4.03

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000723.d
Date : 28-JUN-2005 13:39
Client ID: 20506170507
Sample Info: 20506170507
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: 201TP-0.15 ID: 2.1 (mm)
Concentrated Extract Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293866 Analytical Batch: 294605

Sample ID: 86-MSD-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170508
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/18/05
Date Analyzed: 06/28/05 Time: 1347
Dilution Factor: 1 Analyst: JAR
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/L

Lab File ID: 050628/H0000724

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.09		0.291	1.00
91-57-6	2-Methylnaphthalene	3.70		0.142	1.00
83-32-9	Acenaphthene	3.56		0.331	1.00
208-96-8	Acenaphthylene	4.54		0.153	1.00
120-12-7	Anthracene	3.82		0.024	0.100
56-55-3	Benzo(a)anthracene	3.57		0.032	0.100
50-32-8	Benzo(a)pyrene	2.67		0.033	0.100
205-99-2	Benzo(b)fluoranthene	2.98		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	2.81		0.016	0.100
207-08-9	Benzo(k)fluoranthene	2.55		0.033	0.100
218-01-9	Chrysene	3.39		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	1.76		0.029	0.100
206-44-0	Fluoranthene	4.09		0.044	0.100
86-73-7	Fluorene	4.12		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	2.94		0.041	0.250
91-20-3	Naphthalene	4.83		0.124	0.250
85-01-8	Phenanthrene	4.07		0.025	0.100
129-00-0	Pyrene	5.02		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050628.b/h0000724.d
Lab Smp Id: 20506170508 Client Smp ID: 20506170508
Inj Date : 28-JUN-2005 13:47
Operator : jar Inst ID: hplc1.i
Smp Info : 20506170508
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050628.b/flpnauv.m
Meth Date : 28-Jun-2005 11:21 rlw Quant Type: ESTD
Cal Date : 28-JUN-2005 10:03 Cal File: h0000712.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	10.00000	unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	1000.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
1 Naphthalene	1.198	1.207	-0.009	12184	4.82865	4.83
2 Acenaphthylene	1.431	1.447	-0.016	8292	4.54214	4.54
3 1-Methynaphthalene	1.571	1.580	-0.009	6495	4.09008	4.09
4 2-Methylnaphthalene	1.664	1.673	-0.009	8069	3.70212	3.70
5 Acenaphthene	1.738	1.747	-0.009	3776	3.56287	3.56
6 Fluorene	1.857	1.867	-0.010	48536	4.11610	4.12
7 Phenanthrene	2.111	2.120	-0.009	107220	4.07222	4.07
8 Anthracene	2.364	2.373	-0.009	190270	3.82205	3.82
9 Fluoranthene	2.618	2.627	-0.009	29157	4.09438	4.09
10 Pyrene	2.797	2.807	-0.010	30594	5.02352	5.02
$ 11 p-Terphenyl	3.211	3.307	-0.096	11394	1.40190	1.40(M)
12 Benzo(a)Anthracene	3.484	3.493	-0.009	62157	3.56822	3.57
13 Chrysene	3.658	3.667	-0.009	97389	3.39253	3.39

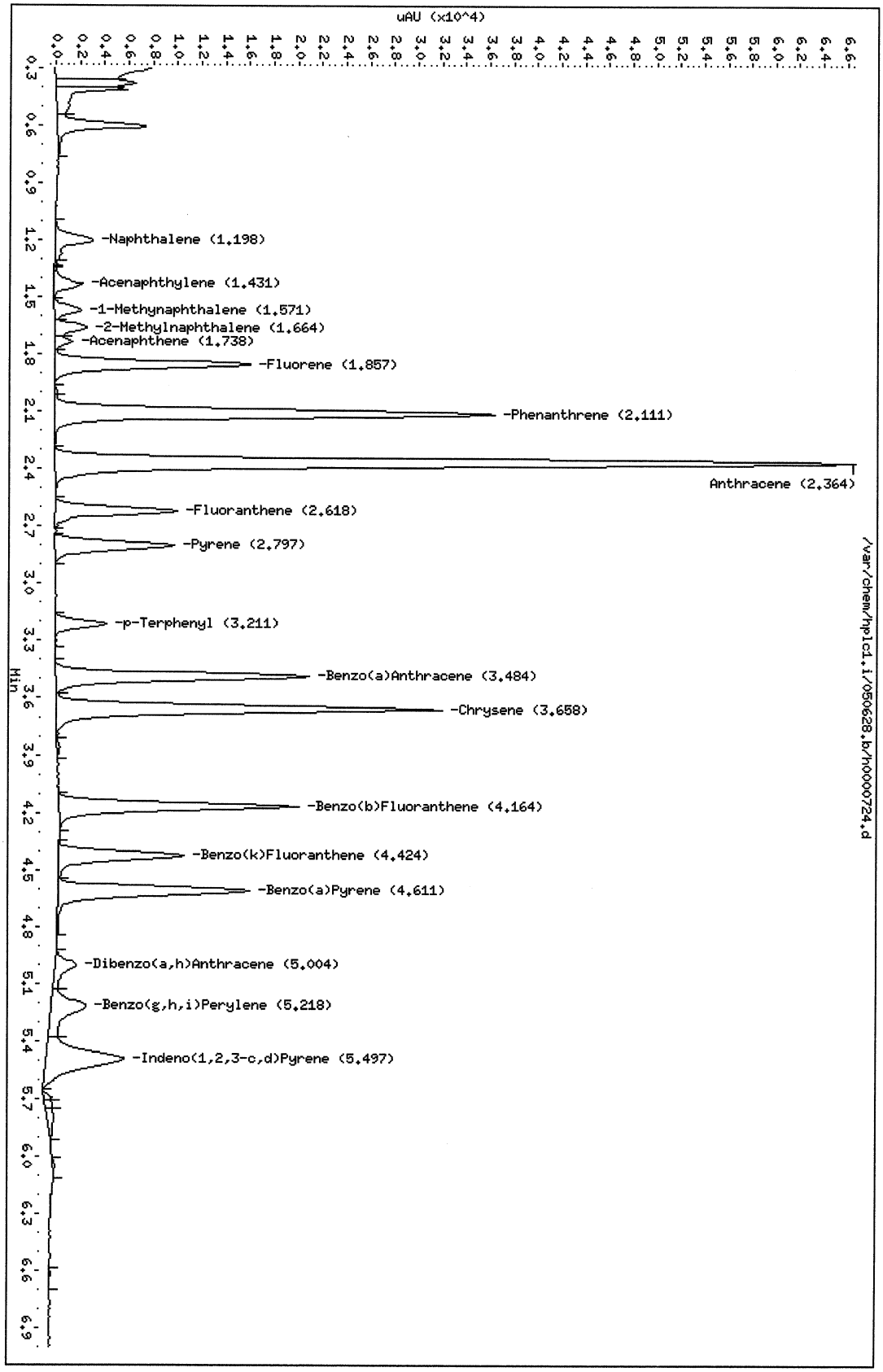
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	4.164	4.173	-0.009	61102	2.98147	2.98
15 Benzo(k)Fluoranthene	4.424	4.427	-0.003	33016	2.54920	2.55
16 Benzo(a)Pyrene	4.611	4.613	-0.002	52445	2.66609	2.67
17 Dibenzo(a,h)Anthracene	5.004	5.000	0.004	9059	1.76346	1.76
18 Benzo(g,h,i)Perylene	5.218	5.213	0.005	20133	2.81059	2.81
19 Indeno(1,2,3-c,d)Pyrene	5.497	5.480	0.017	42956	2.94481	2.94

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050628.b/h0000724.d
Date : 28-JUN-2005 13:47
Client ID: 20506170508
Sample Info: 20506170508
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: jar
Column diameter: 2.10



PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	6-18-05 1000	BATCH NO:	293866
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	COMMENTS	METHOD
1	QC ACCOUNT	MB for HBN 293866 [EXTO/7754]	250576	1000	1.0	7	8310	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 293866 [EXTO/7754]	250577	1000	1.0	7		
3	QC ACCOUNT	LCSD for HBN 293866 [EXTO/7754	250578	1000	1.0	7		SEPARATORY FUNNEL/3510
4	4380	86-CEF43-2N-Q2-05	20506170501	1000	1.0	7		
5	4380	86-CEF43-6N-Q2-05	20506170502	1000	1.0	7		
6	4380	86-CEF43-7N-Q2-05	20506170503	1000	1.0	7		
7	4380	86-CEF43-9N-Q2-05	20506170504	1000	1.0	7		SONICATOR/3550
8	4380	86-CEF43-33N-Q2-05	20506170505	1000	1.0	7		
9	4380	86-CEF43-38N-Q2-05	20506170506	1000	1.0	7		SOXHLET/3540
10	4380	86-MS-Q2-05	20506170507	1000	1.0	7		
11	4380	86-MSD-Q2-05	20506170508	1000	1.0	7		
12	4380	86-DUP-Q2-05	20506170509	1000	1.0	7		
13	4380	86-EB-Q2-05	20506170510	1000	1.0	7		
14								
15								
16								
17								
18								
19								
20								Sodium Sulfate Lot No: 046077
21								
22								ACETONITRILE: 050920
23								
24								MeCL2 Lot No: B15E54
25								
26								
27								
28								

SKB 06/20/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-27-7			SPIKE ID	9-27-8	TECHNICIAN	DATE
VOLUME	0.5ml			VOLUME	1.0ml	[illegible]	6-18-05
CONCENTRATION	4.0ug/ml			CONCENTRATION	3.0ug/ml	[illegible]	6-18-05
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	GLS					John Bailey	06/20/05

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 28-JUN-2005
Instrument: hplc1.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions:

MISC:

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
8310-00.1		h0000705.d	1000.00 ml	28-JUN-2005 09:08	1.000	1	
8310-00.25		h0000706.d	1000.00 ml	28-JUN-2005 09:16	1.000	1	
8310-00.5		h0000707.d	1000.00 ml	28-JUN-2005 09:24	1.000	1	
8310-01.0		h0000708.d	1000.00 ml	28-JUN-2005 09:32	1.000	1	
8310-02.5		h0000709.d	1000.00 ml	28-JUN-2005 09:40	1.000	1	
8310-05.0		h0000710.d	1000.00 ml	28-JUN-2005 09:47	1.000	1	
8310-10.0		h0000711.d	1000.00 ml	28-JUN-2005 09:55	1.000	1	
8310-20.0		h0000712.d	1000.00 ml	28-JUN-2005 10:03	1.000	1	
8310ICV		h0000713.d	1000.00 ml	28-JUN-2005 10:52	1.000	1	
250576		h0000714.d	1000.00 ml	28-JUN-2005 12:27	1.000	1	
250577		h0000715.d	1000.00 ml	28-JUN-2005 12:35	1.000	1	
250578		h0000716.d	1000.00 ml	28-JUN-2005 12:43	1.000	1	
20506170501		h0000717.d	1000.00 ml	28-JUN-2005 12:51	1.000	1	
20506170502		h0000718.d	1000.00 ml	28-JUN-2005 12:59	1.000	1	
20506170503		h0000719.d	1000.00 ml	28-JUN-2005 13:07	1.000	1	
20506170504		h0000720.d	1000.00 ml	28-JUN-2005 13:15	1.000	1	
20506170505		h0000721.d	1000.00 ml	28-JUN-2005 13:23	1.000	1	
20506170506		h0000722.d	1000.00 ml	28-JUN-2005 13:31	1.000	1	
20506170507		h0000723.d	1000.00 ml	28-JUN-2005 13:39	1.000	1	
20506170508		h0000724.d	1000.00 ml	28-JUN-2005 13:47	1.000	1	
20506170509		h0000725.d	1000.00 ml	28-JUN-2005 13:55	1.000	1	
20506170510		h0000726.d	1000.00 ml	28-JUN-2005 14:03	1.000	1	
8310CCV		h0000727.d	1000.00 ml	28-JUN-2005 14:11	1.000	1	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 22-JUN-2005
Instrument: MSSV3.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
1100	4-16-4	b9414.d	0.00 ml	22-JUN-2005 11:00	1.000	1	
1100	4-16-4	b9414c.d	0.00 ml	22-JUN-2005 11:00	1.000	1	
1205	4-24-2	b9415.d	1000.00 ml	22-JUN-2005 11:20	1.000	2	
1204	4-24-3	b9416.d	30.00 g	22-JUN-2005 11:41	1.000	3	
1206	4-24-4	b9417.d	30.00 g	22-JUN-2005 11:56	1.000	4	
1207	4-24-5	b9418.d	30.00 g	22-JUN-2005 12:12	1.000	5	
1208	4-24-6	b9419.d	30.00 g	22-JUN-2005 12:28	1.000	6	
1209	4-24-7	b9420.d	30.00 g	22-JUN-2005 12:44	1.000	7	
1203	4-24-8	b9421.d	30.00 g	22-JUN-2005 13:00	1.000	8	
1202	4-24-9	b9422.d	30.00 g	22-JUN-2005 13:15	1.000	9	
1201	4-24-10	b9423.d	30.00 g	22-JUN-2005 13:31	1.000	10	
1600	4-24-11	b9424.d	1000.00 ml	22-JUN-2005 13:47	1.000	11	
20506091001	4455	b9425.d	30.00 g	22-JUN-2005 14:37	1.000	12	
20506091008	4455	b9426.d	30.00 g	22-JUN-2005 14:52	1.000	13	
20506091011	4455	b9427.d	30.00 g	22-JUN-2005 15:08	1.000	14	
20506091012	4455	b9428.d	30.00 g	22-JUN-2005 15:24	1.000	15	
20506091013	4455	b9429.d	30.00 g	22-JUN-2005 15:40	1.000	16	
20506091014	4455	b9430.d	30.00 g	22-JUN-2005 15:56	1.000	17	
20506091015	4455	b9431.d	30.00 g	22-JUN-2005 16:11	1.000	18	
20506091016	4455	b9432.d	30.00 g	22-JUN-2005 16:27	1.000	19	
20506091017	4455	b9433.d	30.00 g	22-JUN-2005 16:43	1.000	20	
20506100603	4455	b9434.d	30.00 g	22-JUN-2005 16:59	1.000	21	
20506171406	4484	b9435.d	1000.00 ml	22-JUN-2005 17:14	20.000	22	
20506171402	4484	b9436.d	1000.00 ml	22-JUN-2005 17:30	10.000	23	
20506171402	4484	b9437.d	1000.00 ml	22-JUN-2005 17:54	10.000	23	
20506171415	4484	b9438.d	1000.00 ml	22-JUN-2005 18:10	20.000	24	
20506171421	4484	b9439.d	1000.00 ml	22-JUN-2005 18:26	20.000	25	
20506171417	4484	b9440.d	1000.00 ml	22-JUN-2005 18:41	20.000	26	
20506171407	4484	b9441.d	1000.00 ml	22-JUN-2005 18:57	20.000	27	
20506171416	4484	b9442.d	1000.00 ml	22-JUN-2005 19:13	20.000	28	
251566	BLK	b9443.d	1000.00 ml	22-JUN-2005 19:29	1.000	29	
251567	LCS	b9444.d	1000.00 ml	22-JUN-2005 19:44	1.000	30	
251568	LCSD	b9445.d	1000.00 ml	22-JUN-2005 20:00	1.000	31	
20506150409	4484	b9446.d	100.00 ml	22-JUN-2005 20:16	1.000	32	
20506150412	4484	b9447.d	150.00 ml	22-JUN-2005 20:32	1.000	33	
20506150416	4484	b9448.d	200.00 ml	22-JUN-2005 20:47	1.000	34	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 22-JUN-2005
Instrument: MSSV3.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
20506152002	4329	b9449.d	200.00 ml	22-JUN-2005 21:03	1.000	35	
20506152004	4329	b9450.d	200.00 ml	22-JUN-2005 21:19	1.000	36	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 30-JUN-2005
Instrument: MSSV3.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
1100	4-16-4	b9730.d	0.00 ml	30-JUN-2005 10:03	1.000	1	
1100	4-16-4	b9730c.d	0.00 ml	30-JUN-2005 10:03	1.000	1	
1400	4-24-2	b9731.d	1000.00 ml	30-JUN-2005 10:16	1.000	2	
20506170501		b9732.d	1000.00 ml	30-JUN-2005 10:37	1.000	3	
20506170504		b9733.d	1000.00 ml	30-JUN-2005 10:53	1.000	4	
20506170509		b9734.d	1000.00 ml	30-JUN-2005 11:09	1.000	5	
252525	BLK	b9735.d	30.00 g	30-JUN-2005 11:24	1.000	6	
252526	LCS	b9736.d	30.00 g	30-JUN-2005 11:40	1.000	7	
252527	LCSD	b9737.d	30.00 g	30-JUN-2005 11:56	1.000	8	
20506231002	4484	b9738.d	30.00 g	30-JUN-2005 12:12	1.000	9	
20506231007	4484	b9739.d	30.00 g	30-JUN-2005 12:28	1.000	10	
20506230401	4438	b9740.d	30.00 g	30-JUN-2005 12:43	1.000	11	
20506231004	4484	b9741.d	30.00 g	30-JUN-2005 12:59	20.000	12	
252985	BLK	b9742.d	1000.00 ml	30-JUN-2005 13:15	1.000	13	
252986	LCS	b9743.d	1000.00 ml	30-JUN-2005 13:31	1.000	14	
252987	LCSD	b9744.d	1000.00 ml	30-JUN-2005 13:47	1.000	15	
20506230314	4484	b9745.d	200.00 ml	30-JUN-2005 14:03	1.000	16	
20506270601	4271	b9746.d	1000.00 ml	30-JUN-2005 14:19	1.000	17	
20506270602	4271	b9747.d	1000.00 ml	30-JUN-2005 14:34	1.000	18	
20506270603	4271	b9748.d	1000.00 ml	30-JUN-2005 14:50	1.000	19	
20506270604	4271	b9749.d	1000.00 ml	30-JUN-2005 15:06	1.000	20	
20506270605	4271	b9750.d	1000.00 ml	30-JUN-2005 15:22	1.000	21	
20506272301	4329	b9751.d	200.00 ml	30-JUN-2005 15:38	1.000	22	
252988	MS	b9752.d	200.00 ml	30-JUN-2005 15:54	1.000	23	
252989	MSD	b9753.d	200.00 ml	30-JUN-2005 16:10	1.000	24	
20506272302	4329	b9754.d	200.00 ml	30-JUN-2005 16:26	1.000	25	
20506272303	4329	b9755.d	200.00 ml	30-JUN-2005 16:42	1.000	26	
20506231002	4484	b9756.d	30.00 g	30-JUN-2005 16:58	10.000	28	
20506231007	4484	b9757.d	30.00 g	30-JUN-2005 17:14	5.000	29	
0627TBLK	TBLK	b9758.d	200.00 ml	30-JUN-2005 17:30	1.000	27	
20506231004	4484	b9759.d	30.00 g	30-JUN-2005 17:46	50.000	30	
253054	BLK	b9760.d	30.00 g	30-JUN-2005 18:02	1.000	31	
253055	LCS	b9761.d	30.00 g	30-JUN-2005 18:34	1.000	32	
253056	LCSD	b9762.d	30.00 g	30-JUN-2005 18:53	1.000	33	
252985	BLK	b9763.d	1000.00 ml	30-JUN-2005 19:09	1.000	13	
252986	LCS	b9764.d	1000.00 ml	30-JUN-2005 19:25	1.000	14	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 30-JUN-2005
Instrument: MSSV3.i

Standard	Conc ppm	Lot No.
DFTPP	50	
Int. Standard	4000	

Inst. Conditions: _____

MISC: _____

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
252987	LCSD	b9765.d	1000.00 ml	30-JUN-2005 19:41	1.000	15	
20506230314	4484	b9766.d	200.00 ml	30-JUN-2005 19:56	1.000	16	
20506270601	4271	b9767.d	1000.00 ml	30-JUN-2005 20:12	1.000	17	
20506270602	4271	b9768.d	1000.00 ml	30-JUN-2005 20:28	1.000	18	
20506270603	4271	b9769.d	1000.00 ml	30-JUN-2005 20:44	1.000	19	
20506270604	4271	b9770.d	1000.00 ml	30-JUN-2005 21:00	1.000	20	
20506270605	4271	b9771.d	1000.00 ml	30-JUN-2005 21:15	1.000	21	
20506272301	4329	b9772.d	200.00 ml	30-JUN-2005 21:31	1.000	22	
252988	MS	b9773.d	200.00 ml	30-JUN-2005 21:47	1.000	23	
252989	MSD	b9774.d	200.00 ml	30-JUN-2005 22:03	1.000	24	
20506272302	4329	b9775.d	200.00 ml	30-JUN-2005 22:19	1.000	25	
20506272303	4329	b9776.d	200.00 ml	30-JUN-2005 22:34	1.000	26	
20506270622	4271	b9778.d	30.00 g	30-JUN-2005 22:50	1.000	37	
20506270625	4271	b9779.d	30.60 g	30-JUN-2005 23:06	1.000	40	
20506270626	4271	b9780.d	30.10 g	30-JUN-2005 23:22	1.000	41	
20506270628	4271	b9781.d	30.40 g	30-JUN-2005 23:38	1.000	43	
20506270633	4271	b9782.d	30.10 g	30-JUN-2005 23:53	1.000	48	
20506270634	4271	b9783.d	30.00 g	01-JUL-2005 00:09	1.000	49	
20506270635	4271	b9784.d	30.00 g	01-JUL-2005 00:25	1.000	50	
20506270623	4271	b9785.d	30.10 g	01-JUL-2005 00:41	1.000	38	
20506270631	4271	b9786.d	30.20 g	01-JUL-2005 00:57	1.000	46	
20506270621	4271	b9787.d	30.10 g	01-JUL-2005 01:12	5.000	34	
20506270629	4271	b9788.d	30.20 g	01-JUL-2005 01:28	1.000	44	
20506270630	4271	b9789.d	30.10 g	01-JUL-2005 01:44	1.000	45	
20506270632	4271	b9790.d	30.00 g	01-JUL-2005 02:00	5.000	47	
20506270624	4271	b9791.d	30.50 g	01-JUL-2005 02:16	5.000	39	
20506270627	4271	b9792.d	30.30 g	01-JUL-2005 02:32	5.000	42	

REVISED 6-1-95 Supervisor Review: QA Review:

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
PNA 020	4-29-1	2.0 mg/ml PAH 2.0 mg/ml Pter	Accustd ultra	B4060037-06-04-06 4-0559-05-01-07	500ul	50.0ml	20 ppm	Acetonitrile 050920	RLW	06-28-05	06-04-06
Hex .05	4-29-2	4-29-6	In House	4-29-06 040506	10 uL	1.0 mL	.05 ppm	DCM 045516	pr3	062805	040506
0.1	4-29-3				20		0.1				
0.5 cc	4-29-4				100		0.5				
1.0	4-29-5				200		1.0				
5.0	4-29-6	BNA Calib STD 200 ug/ml Q4419-A	NSI	040505-01 040506-01	125 uL	5.0 mL	5.0				
Hex ICV 1.0	4-29-7	BNA STD 200 ug Q4235-A	NSI	083104 083105	5 uL	1.0 mL	1.0 ppm				083105
BNA 50	4-29-8	Q-4419-A 200 ug/mL	NSI	040505-01 040506	250 uL	1.0 mL	50 ppm	DCM 045516	pr3	062905	012906
10	4-29-9				50		10				
80	4-29-10				400		80				
120	4-29-11				600		120				
160	4-29-12				800		160				
200	4-29-13				1.0 mL		200				
2	4-29-14				10 uL		2				
1	4-29-15				5		1				
0.2	4-29-16				1		0.2				
ICV 050	4-29-17										

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1.	86-CEF43-2N-Q2-05	98	25	132						25	25	132						0
2.	86-CEF43-6N-Q2-05	90	25	132						75	25	132						0
3.	86-CEF43-7N-Q2-05	93	25	132						89	25	132						0
4.	86-CEF43-9N-Q2-05	94	25	132						81	25	132						0
5.	86-CEF43-33N-Q2-05	92	25	132						77	25	132						0
6.	86-CEF43-38N-Q2-05	90	25	132						94	25	132						0
7.	86-MS-Q2-05	91	25	132						91	25	132						0
8.	86-MSD-Q2-05	85	25	132						76	25	132						0
9.	86-DUP-Q2-05	76	25	132						40	25	132						0
10.	86-EB-Q2-05	77	25	132						49	25	132						0
11.	MB250993	80	25	132						38	25	132						0
12.	LCS250994	93	25	132						82	25	132						0
13.	LCSD250995	83	25	132						86	25	132						0

SMC 1 : O-Terphenyl SMC 2 : Nonatriacontane

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II ORG-II

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: FLORIDA PRO

Prep Batch: 293949 Analytical Batch: 294164

SAMPLE NO : 250994

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	1400	82		55 - 118

SAMPLE NO : 250995

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1380	81		1		55 - 118	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III ORG-1

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-CEF43-33N-Q2-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

Contract: Method: FLORIDA PRO

Prep Batch: 293949 Analytical Batch: 294164

SAMPLE NO : 20506170507

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	175	1660	87		41 - 101

SAMPLE NO : 20506170508

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1490	78		11		41 - 101	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III ORG-1

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB250993

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 250993

SAS No.: SDG No.: 205061705

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 06/21/05

Date Analyzed (1): 06/22/05 Time (1): 1921

Date Analyzed (2): Time (2):

Instrument ID (1): GCS14A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Prep Batch: 293949 Analytical Batch: 294164

Lab File ID: 2050622/SV14B0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS250994	250994	06/22/05	1954		
2.	LCSD250995	250995	06/22/05	2027		
3.	86-CEF43-6N-Q2-05	20506170502	06/22/05	2136		
4.	86-CEF43-7N-Q2-05	20506170503	06/22/05	2211		
5.	86-CEF43-9N-Q2-05	20506170504	06/22/05	2247		
6.	86-CEF43-33N-Q2-05	20506170505	06/22/05	2322		
7.	86-CEF43-38N-Q2-05	20506170506	06/22/05	2356		
8.	86-MS-Q2-05	20506170507	06/23/05	0031		
9.	86-MSD-Q2-05	20506170508	06/23/05	1156		
10.	86-EB-Q2-05	20506170510	06/23/05	1305		
11.	86-CEF43-2N-Q2-05	20506170501	06/23/05	1528		
12.	86-DUP-Q2-05	20506170509	06/23/05	1602		

FORM IV ORGANIC

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-2N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170501
Date Collected: 06/16/05 Time: 1050
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 1528
Dilution Factor: 5 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B079S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	9170	B	204	500

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b079.d
Lab Smp Id: 20506170501
Inj Date : 23-JUN-2005 15:28
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170501*5
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 79
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	8.137	10.284	-2.147	2487174629	936.523	9365.2290(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{5(2487174629 - 50908792)}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 9173\ \mu g/L$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b079s.d
Lab Smp Id: 20506170501
Inj Date : 23-JUN-2005 15:28
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170501*5
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 23-Jun-2005 11:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 79
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.297	10.308	-0.011	29397762	9.81286	98.1285
$ 18 Nonatriacontane	18.887	18.975	-0.088	21511030	15.0547	150.5474

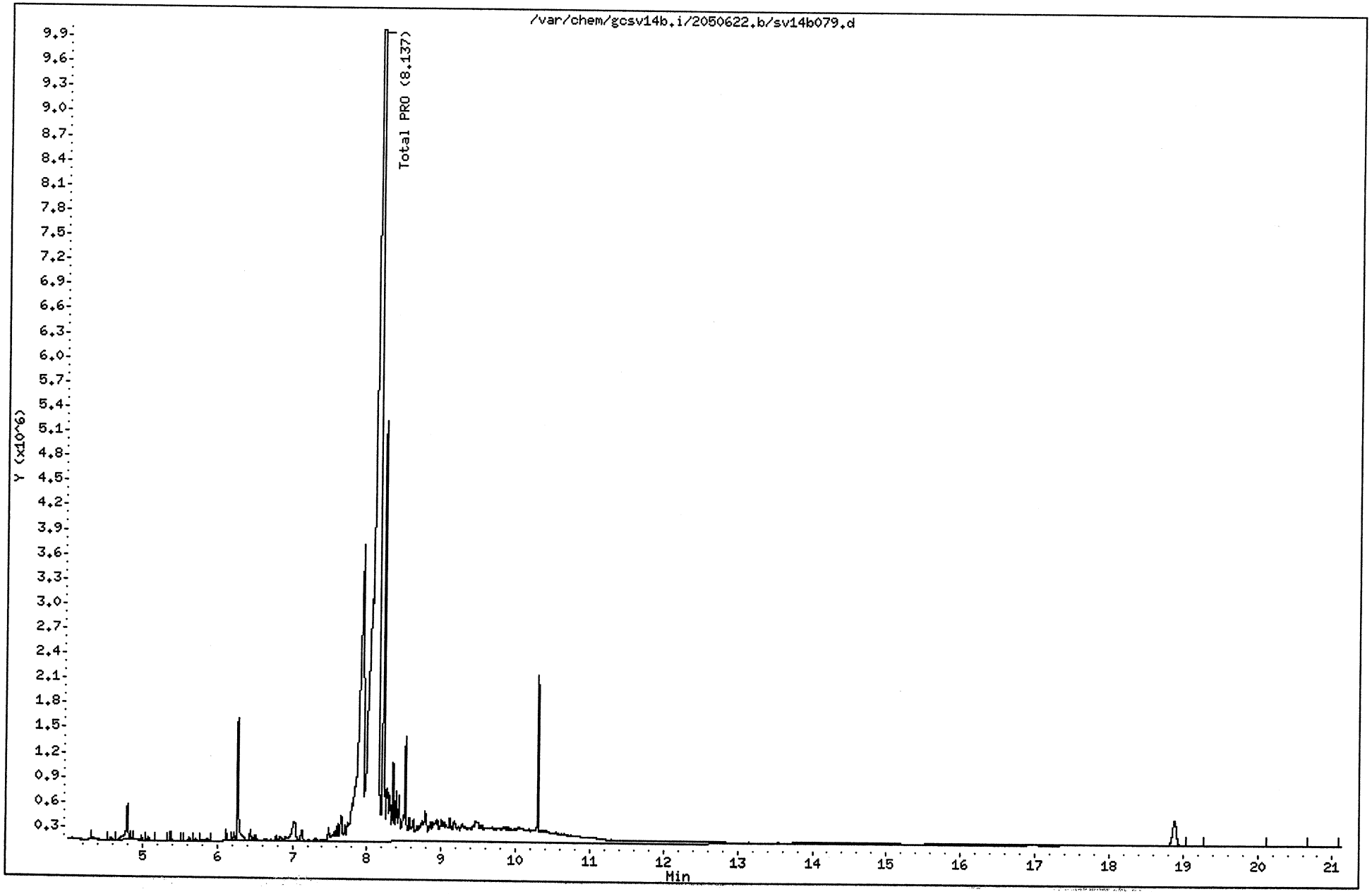
50908792

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b079.d
Date : 23-JUN-2005 15:28
Client ID:
Sample Info: 20506170501*5
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000406



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b079s.d

Date : 23-JUN-2005 15:28

Client ID:

Instrument: gcsv14b.i

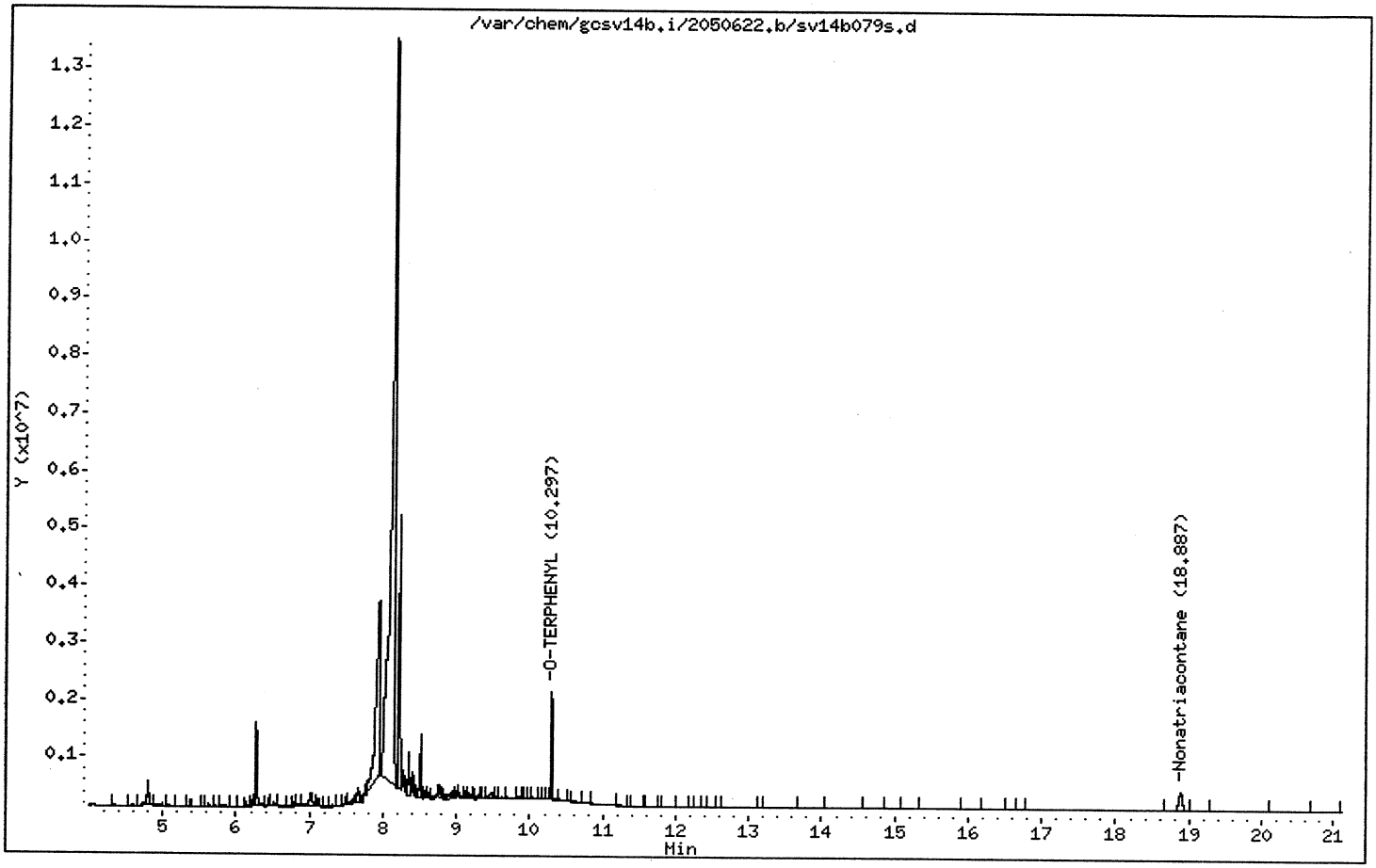
Sample Info: 20506170501*5

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 900 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-6N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170502
Date Collected: 06/16/05 Time: 1145
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2136
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B063S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1100	B	45.2	111

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b063.d
Lab Smp Id: 20506170502
Inj Date : 22-JUN-2005 21:36
Operator : tls
Inst ID: gcsv14b.i
Smp Info : 20506170502*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls
Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16
Cal File: sv14b053.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	900.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.285	10.284	0.001	1765778099	664.888	1477.5280(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1765778099 - 454078655}{2655754} \cdot \frac{2}{900} \cdot 1000 = 1098 \text{ ug/L}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b063s.d
Lab Smp Id: 20506170502
Inj Date : 22-JUN-2005 21:36
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170502*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	900.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

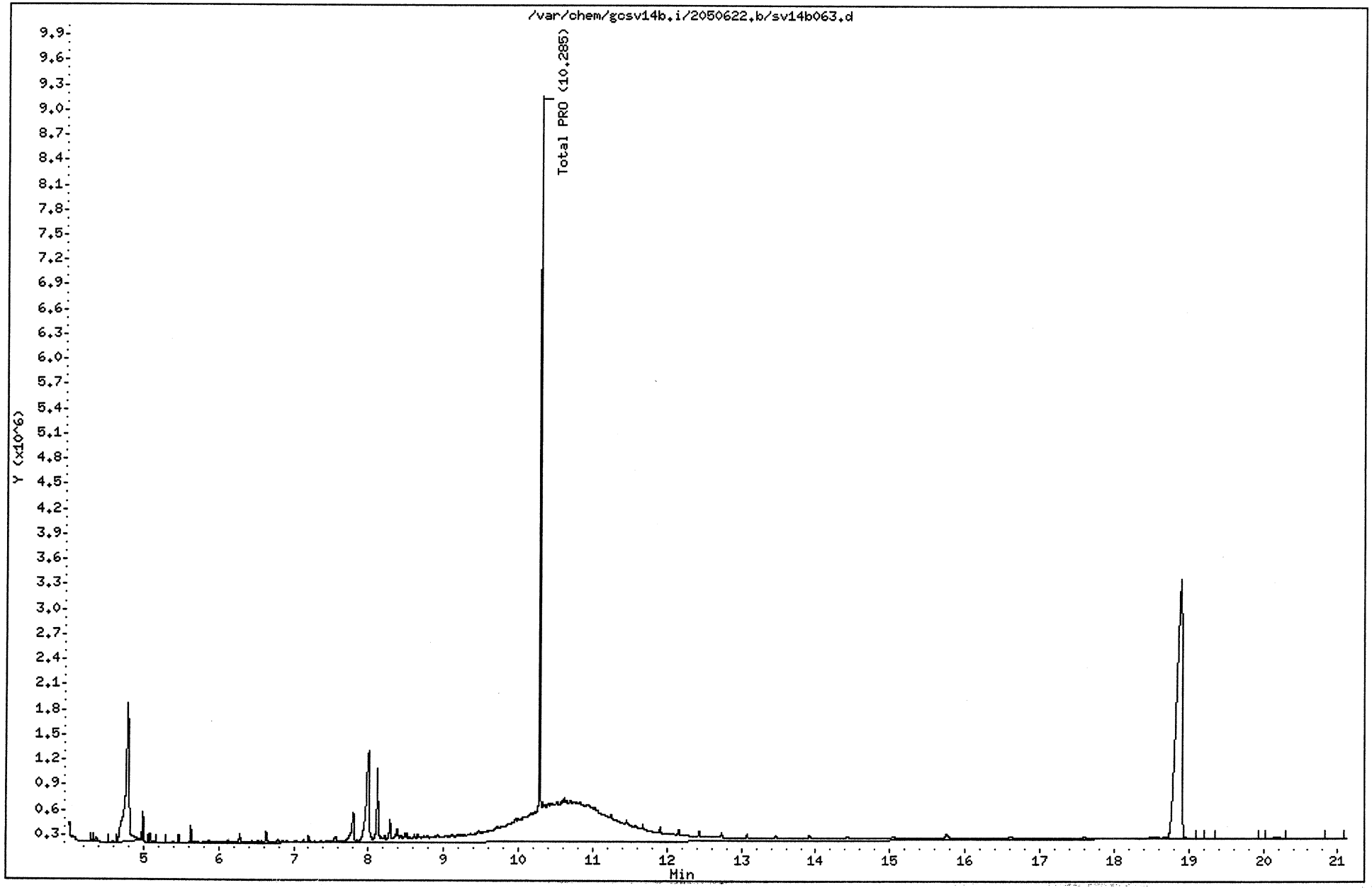
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	10.284	10.306	-0.022	134562143	44.9163	99.8140
$ 18 Nonatriacontane	18.893	18.970	-0.077	319516512	223.617	496.9273

4540 78655

000411

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b063.d
Date : 22-JUN-2005 21:36
Client ID:
Sample Info: 20506170502*1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b063s.d

Date : 22-JUN-2005 21:36

Client ID:

Instrument: gcsv14b.i

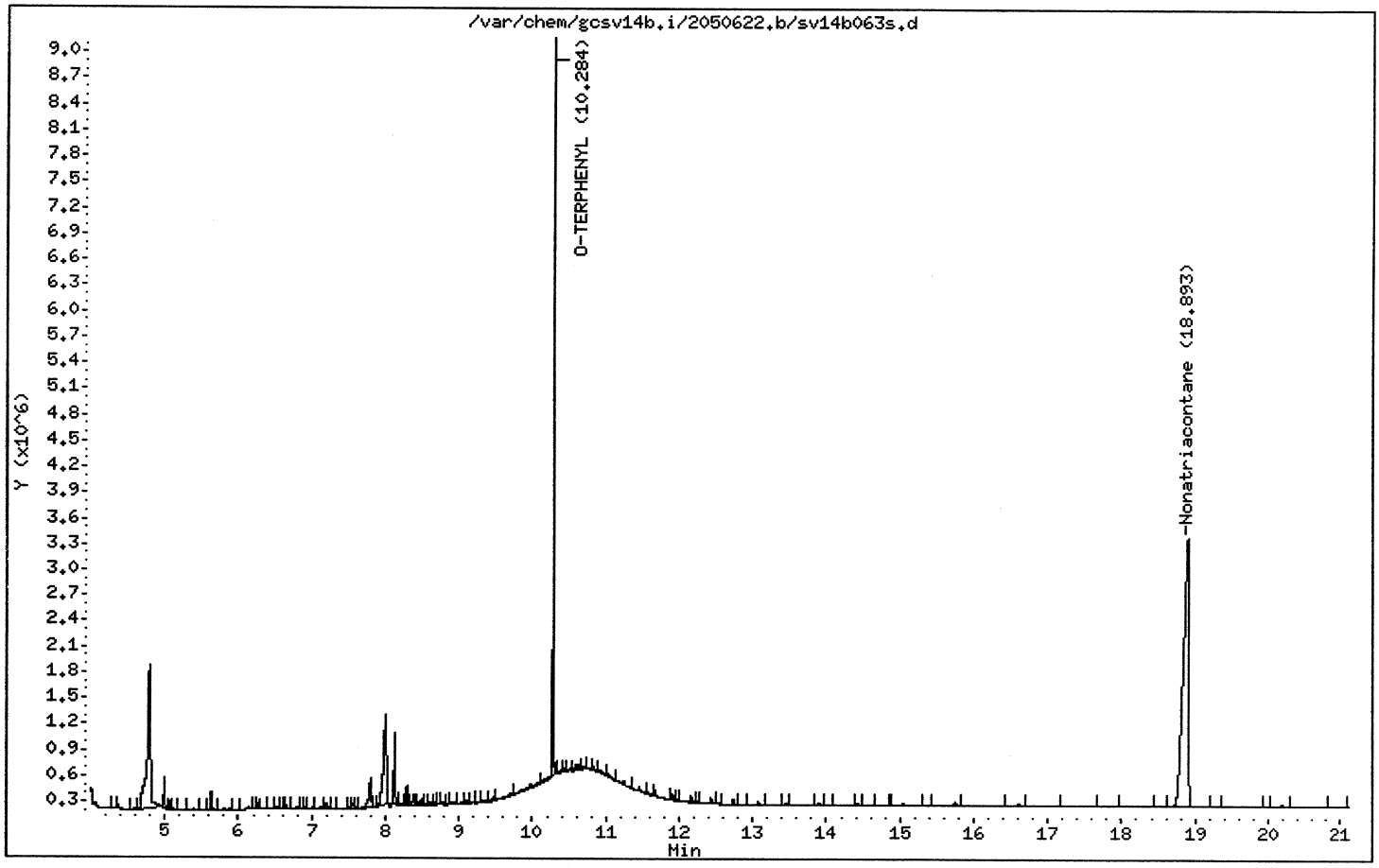
Sample Info: 20506170502*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-7N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170503
Date Collected: 06/16/05 Time: 1320
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2211
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B064S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	184	B	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b064.d
Lab Smp Id: 20506170503
Inj Date : 22-JUN-2005 22:11
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170503*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.289	10.284	0.005	765558582	288.264	576.5281(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{765558582 - 520738329}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 184 \mu g/L$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b064s.d
Lab Smp Id: 20506170503
Inj Date : 22-JUN-2005 22:11
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170503*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 64
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.289	10.306	-0.017	139960140	46.7181	93.4362
$ 18 Nonatriacontane	18.940	18.970	-0.030	380778189	266.492	532.9839

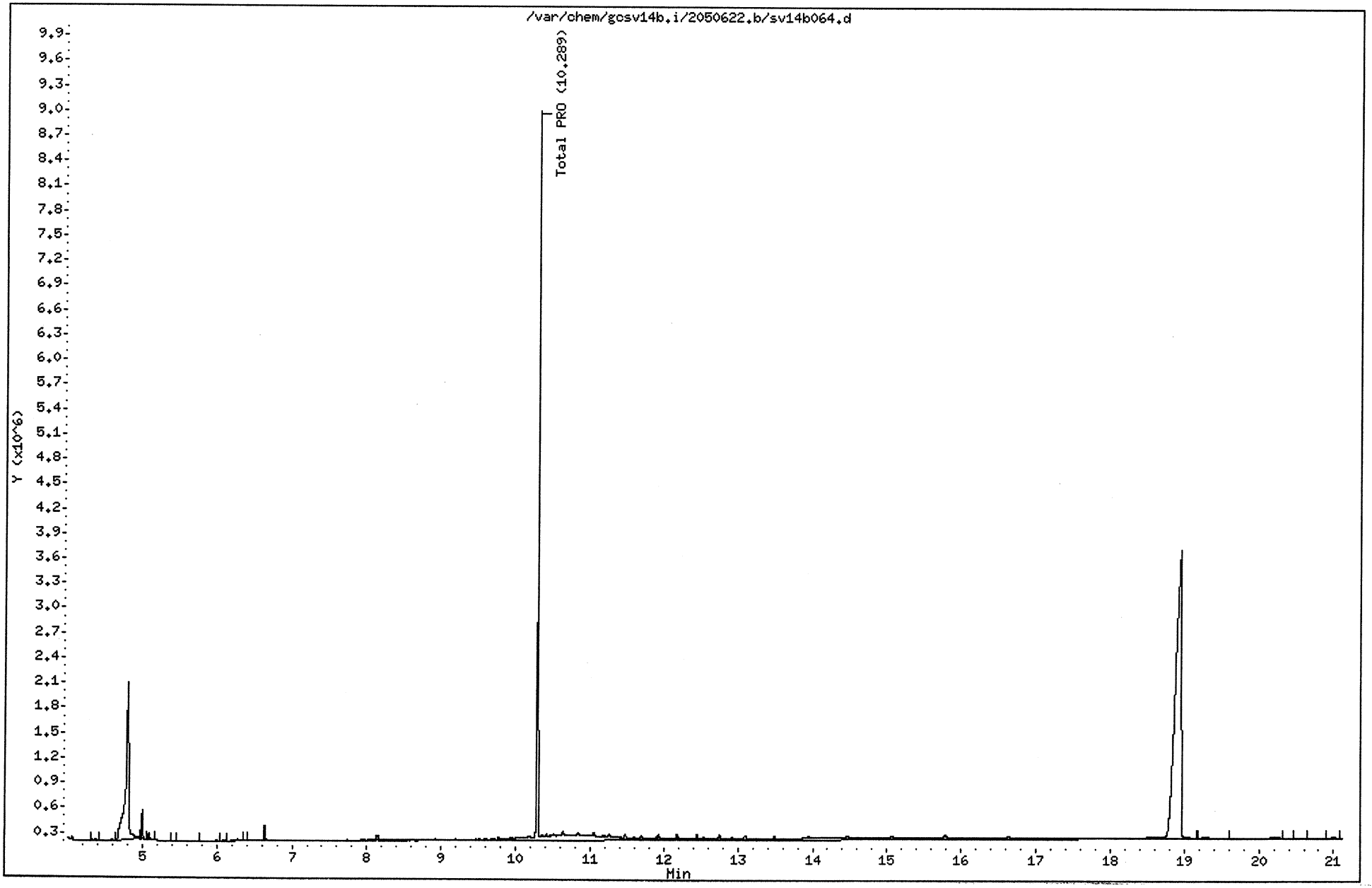
520738329

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b064.d
Date : 22-JUN-2005 22:11
Client ID:
Sample Info: 20506170503x1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000416



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b064s.d

Date : 22-JUN-2005 22:11

Client ID:

Instrument: gcsv14b.i

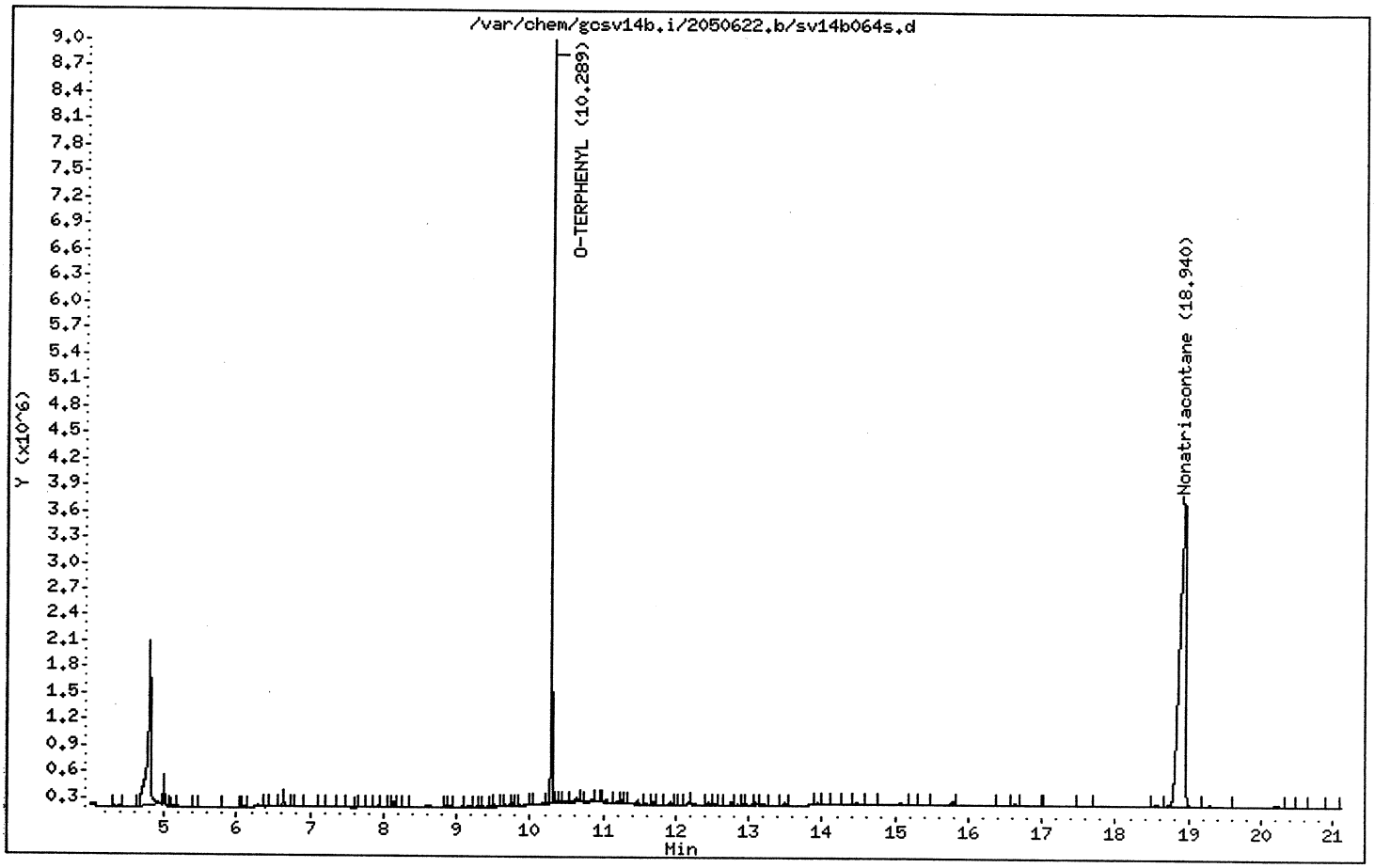
Sample Info: 20506170503*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-9N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170504
Date Collected: 06/16/05 Time: 1425
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2247
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B065S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	3170	B	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b065.d
Lab Smp Id: 20506170504
Inj Date : 22-JUN-2005 22:47
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170504*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 65
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.286	10.284	0.002	4693011732	1767.11	3534.2214(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{4693011732 - 486777510}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 3168 ug/L$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b065s.d
Lab Smp Id: 20506170504
Inj Date : 22-JUN-2005 22:47
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170504*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 65
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.285	10.306	-0.021	140667449	46.9542	93.9084
$ 18 Nonatriacontane	18.898	18.970	-0.072	348110061	243.629	487.2576

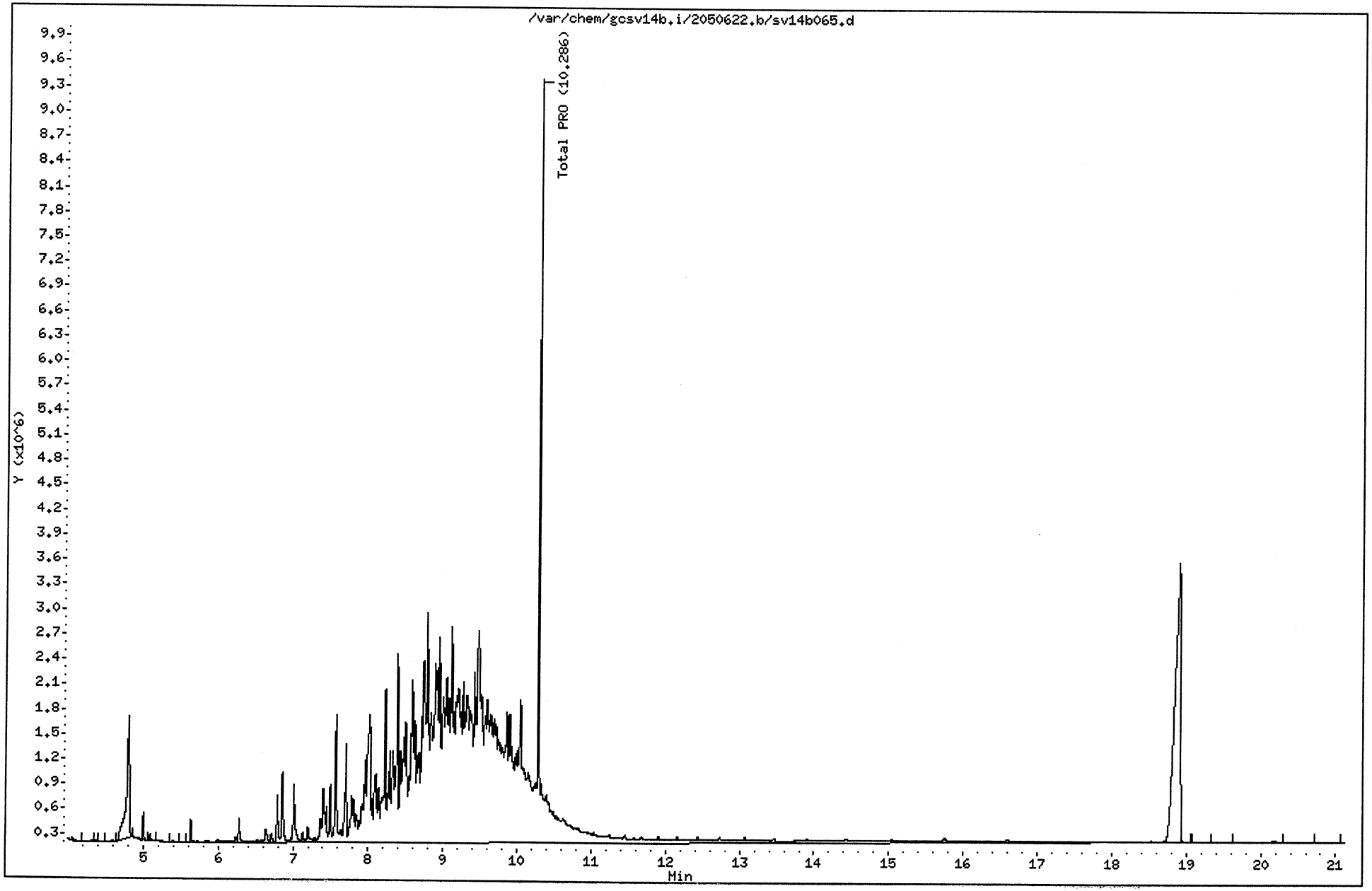
486777510

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b065.d
Date : 22-JUN-2005 22:47
Client ID:
Sample Info: 20506170504x1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000421



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b065s.d

Date : 22-JUN-2005 22:47

Client ID:

Instrument: gcsv14b.i

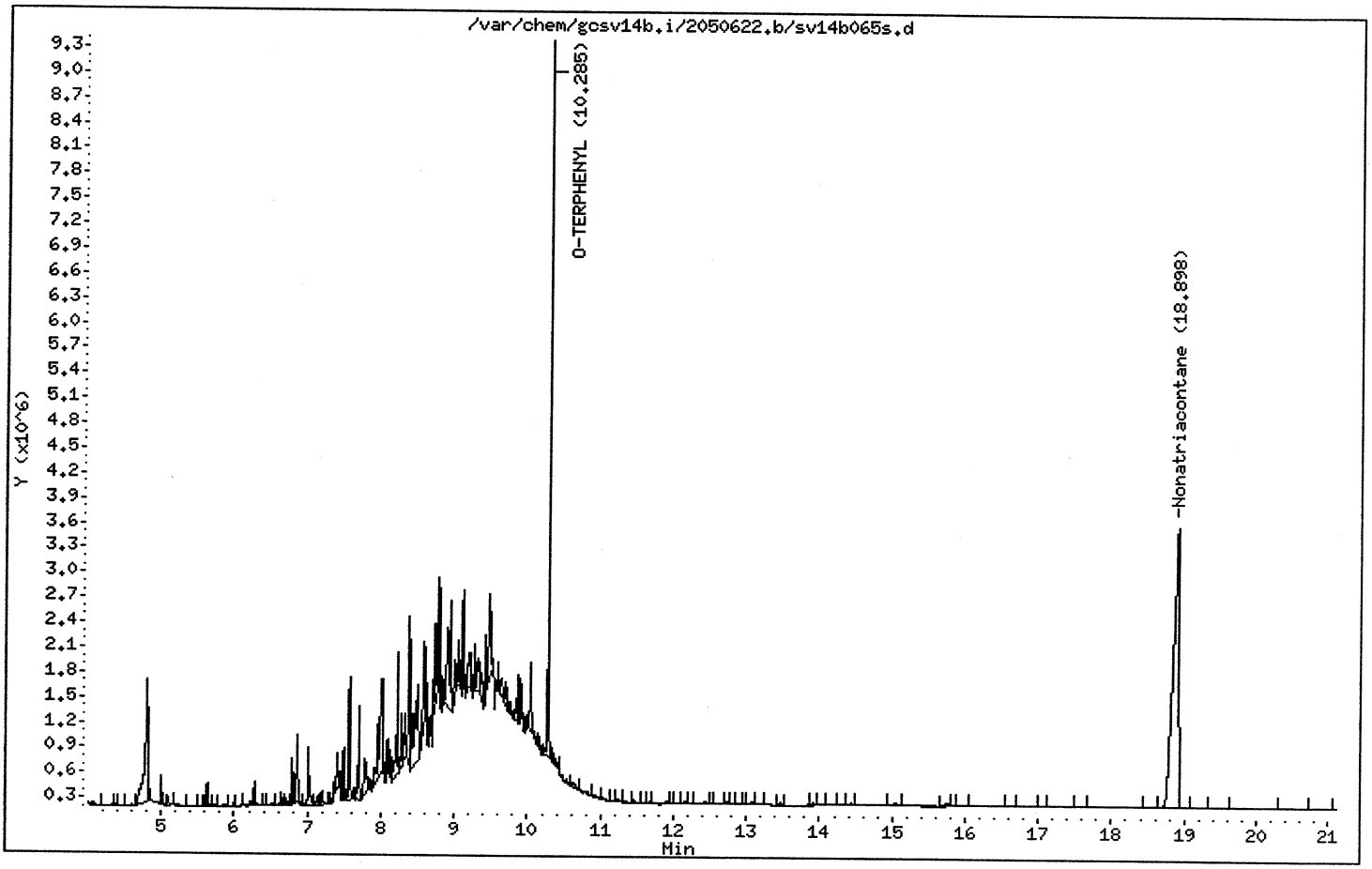
Sample Info: 20506170504*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-33N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170505
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2322
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B066S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	175	B	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b066.d
Lab Smp Id: 20506170505
Inj Date : 22-JUN-2005 23:22
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170505*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	10.292	10.284	0.008	699825882	263.513	527.0260(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{699825882 - 466932687}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 175 \text{ ug/L}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b066s.d
Lab Smp Id: 20506170505
Inj Date : 22-JUN-2005 23:22
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170505*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 66
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.291	10.306	-0.015	137397911	45.8629	91.7257
$ 18 Nonatriacontane	18.947	18.970	-0.023	329534776	230.629	461.2573

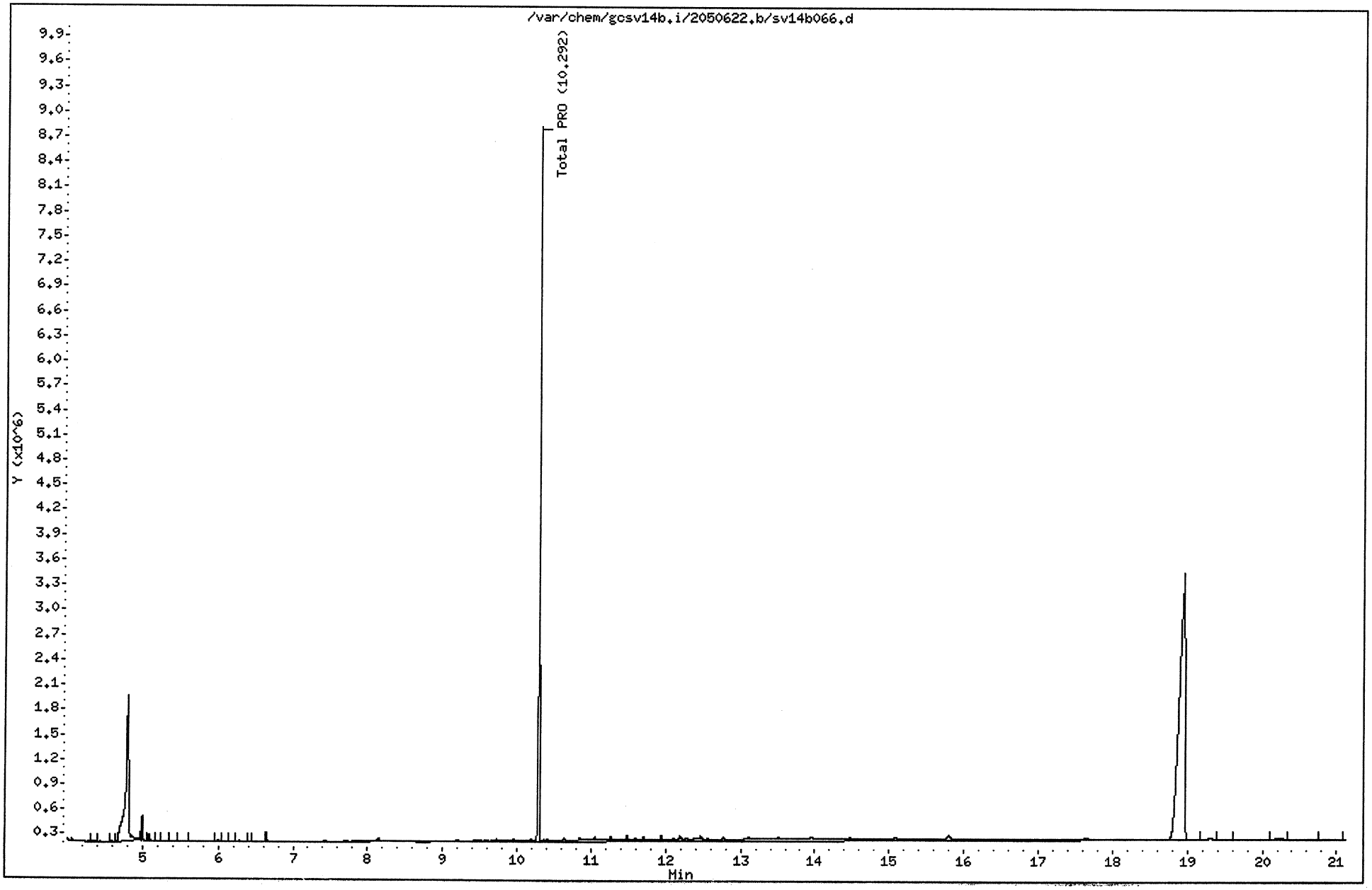
461932687

000426

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b066.d
Date : 22-JUN-2005 23:22
Client ID:
Sample Info: 20506170505x1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b066s.d

Date : 22-JUN-2005 23:22

Client ID:

Instrument: gcsv14b.i

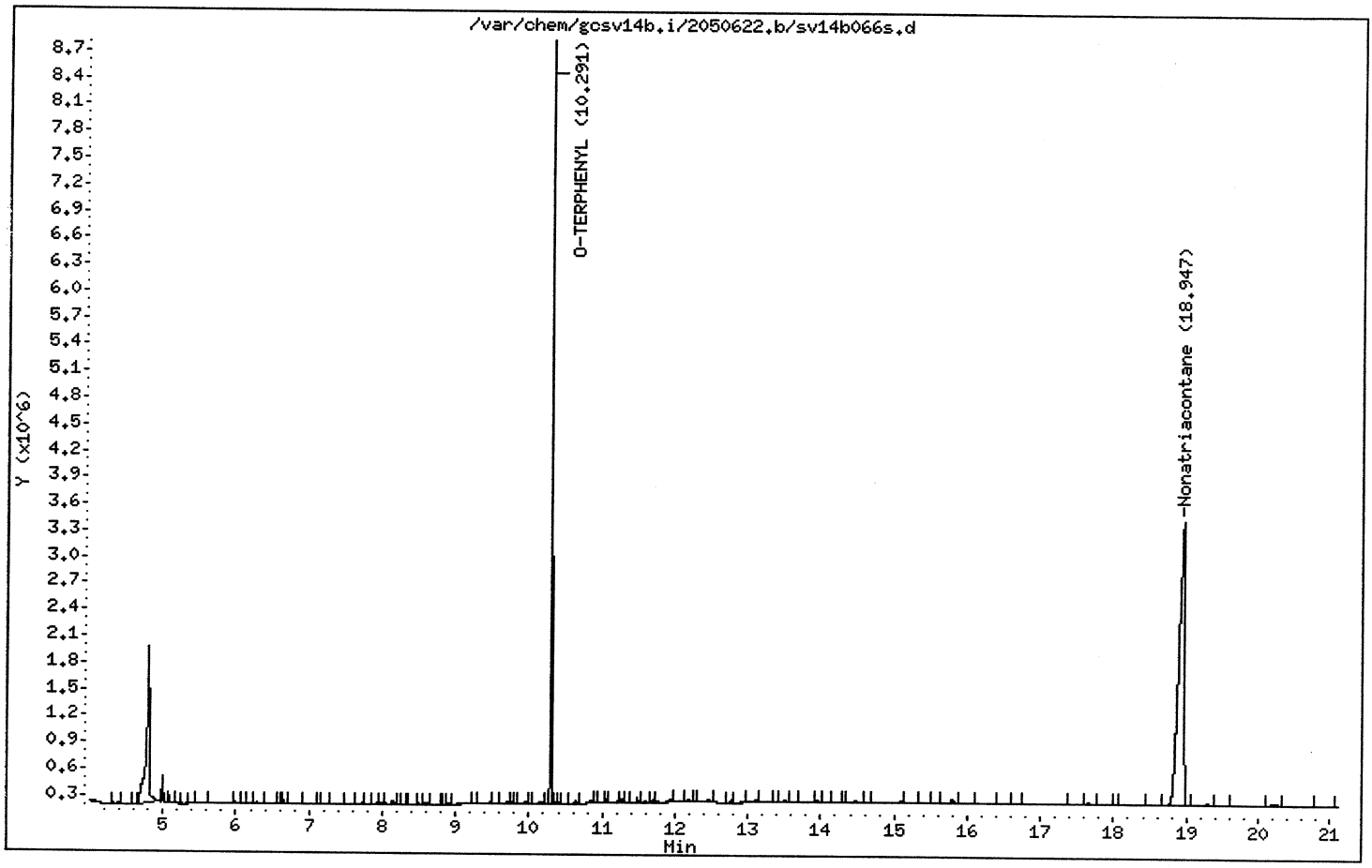
Sample Info: 20506170505*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-CEF43-38N-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170506
Date Collected: 06/16/05 Time: 1525
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2356
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B067S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	183	B	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b067.d
Lab Smp Id: 20506170506
Inj Date : 22-JUN-2005 23:56
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170506*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	10.288	10.284	0.004	783045887	294.849	589.6975(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{783045887 - 539373216}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 183 ug/L$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b067s.d
Lab Smp Id: 20506170506
Inj Date : 22-JUN-2005 23:56
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170506*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 67
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

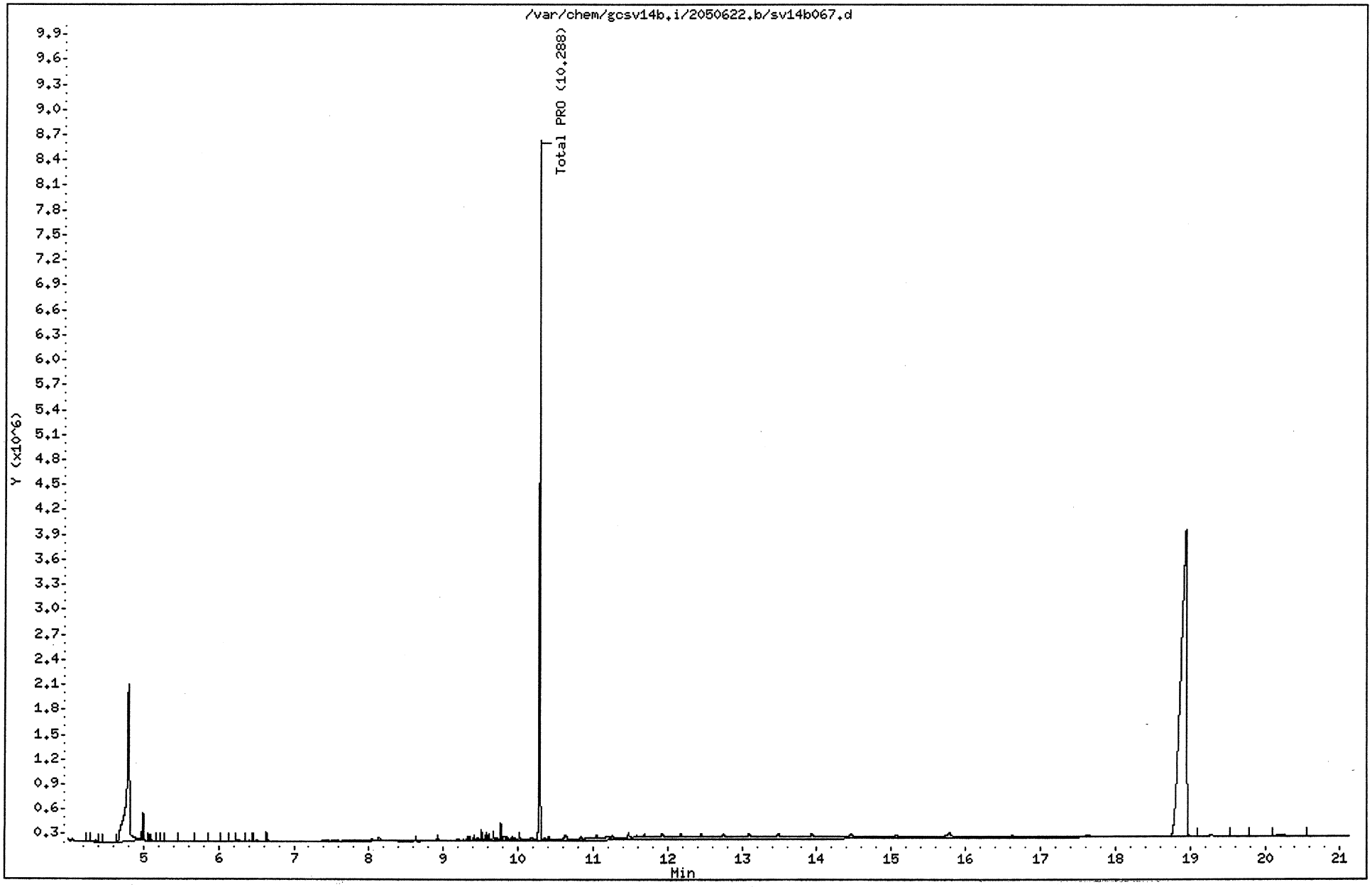
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.288	10.306	-0.018	134821674	45.0029	90.0058
$ 18 Nonatriacontane	18.937	18.970	-0.033	404551542	283.130	566.2600

539373216

000431

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b067.d
Date : 22-JUN-2005 23:56
Client ID:
Sample Info: 20506170506x1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b067s.d

Date : 22-JUN-2005 23:56

Client ID:

Instrument: gcsv14b.i

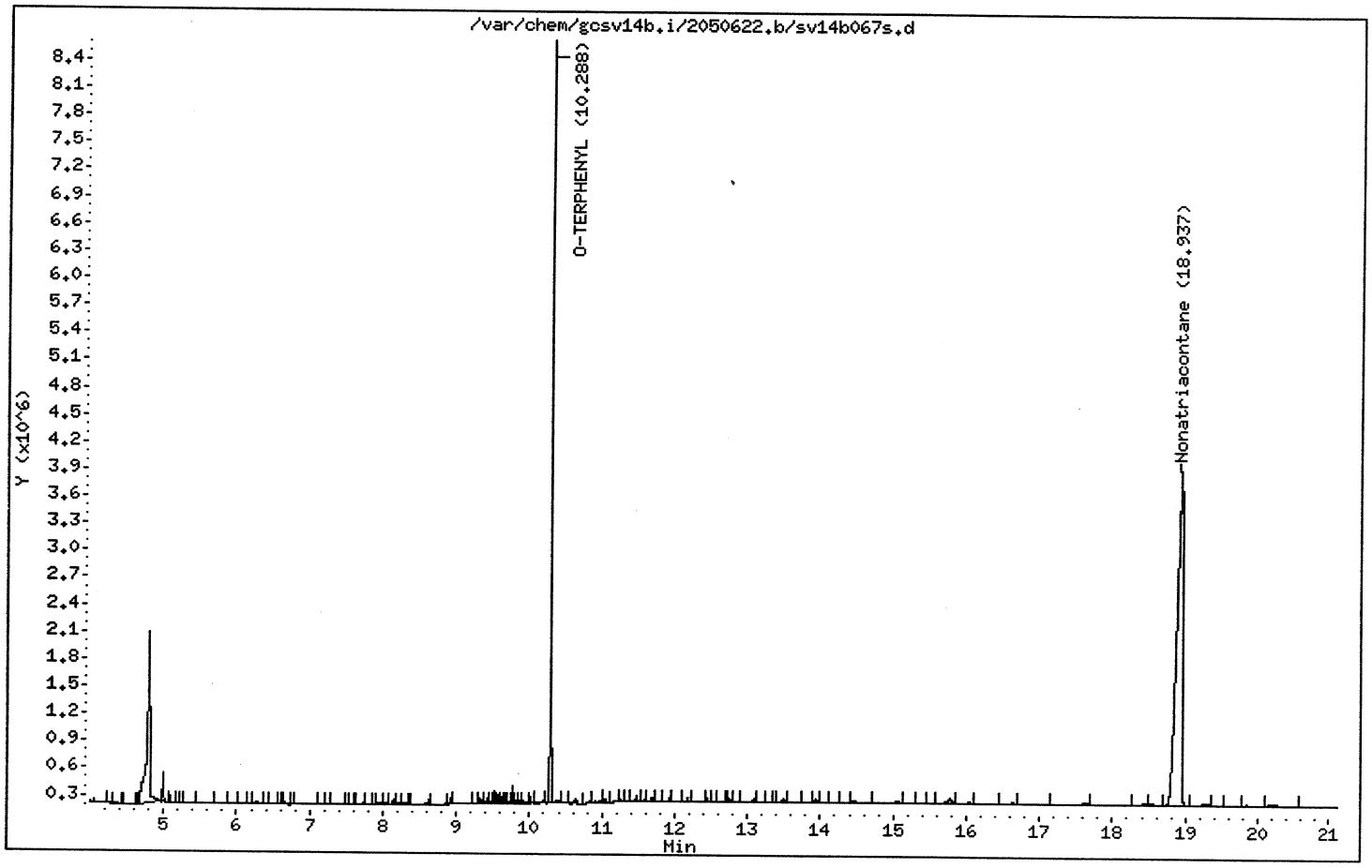
Sample Info: 20506170506*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-DUP-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170509
Date Collected: Time:
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 1602
Dilution Factor: 5 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B080S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	7270	B	204	500

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b080.d
Lab Smp Id: 20506170509
Inj Date : 23-JUN-2005 16:02
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170509*5
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 80
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	8.131	10.284	-2.153	1987658027	748.434	7484.3448(M)

QC Flag Legend

M - Compound response manually integrated.

$$5\left(\frac{1987658027-56567529}{2655754}\right)\cdot\frac{2}{1000}\cdot 1000 = 727\ ug/L$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b080s.d
Lab Smp Id: 20506170509
Inj Date : 23-JUN-2005 16:02
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170509*5
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 23-Jun-2005 11:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 80
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	10.295	10.308	-0.013	22698015	7.57651	75.7650
$ 18 Nonatriacontane	18.883	18.975	-0.092	33869514	23.7040	237.0396

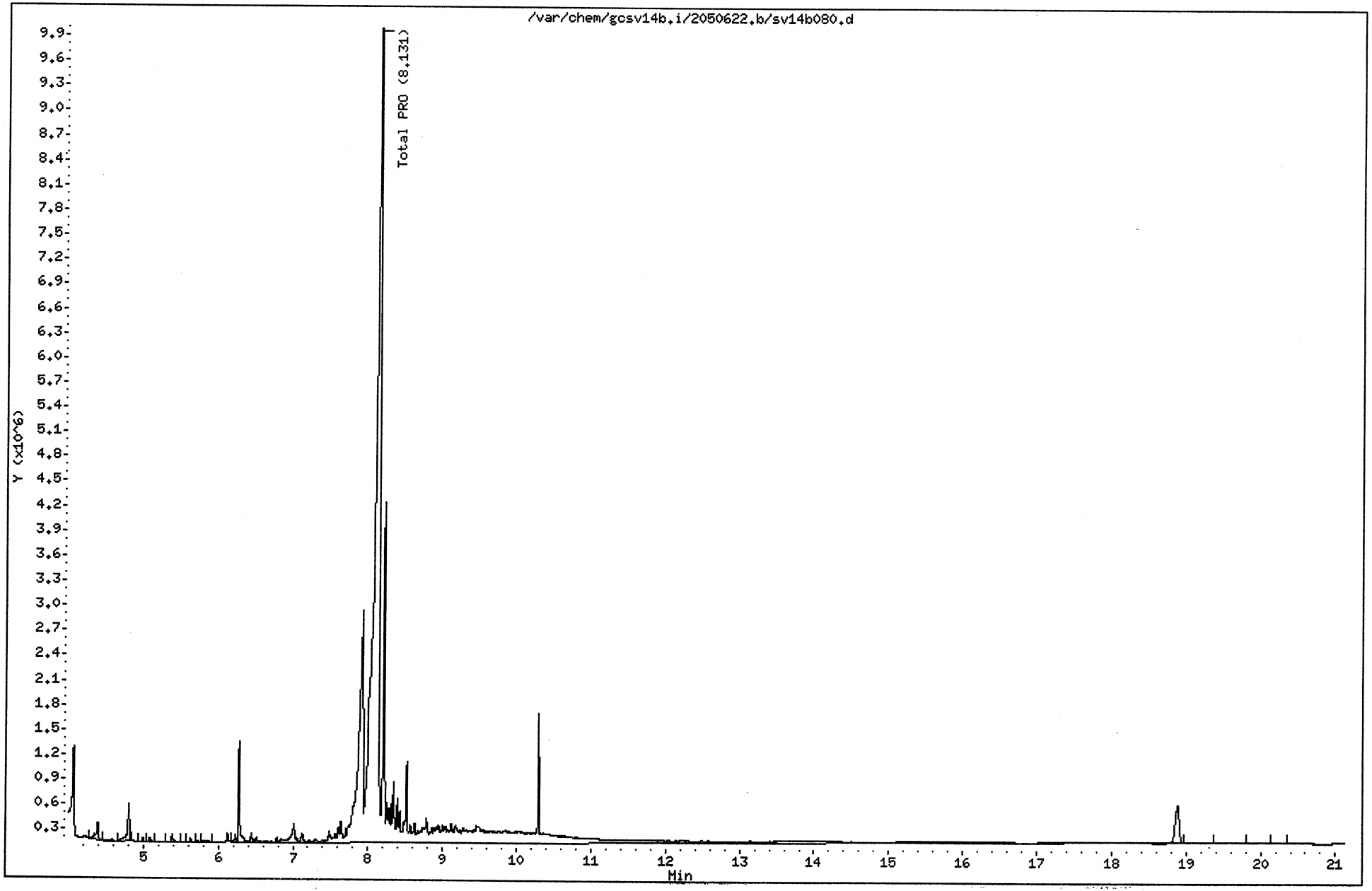
56567529

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b080.d
Date : 23-JUN-2005 16:02
Client ID:
Sample Info: 20506170509*5
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000436



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b080s.d

Date : 23-JUN-2005 16:02

Client ID:

Instrument: gcsv14b.i

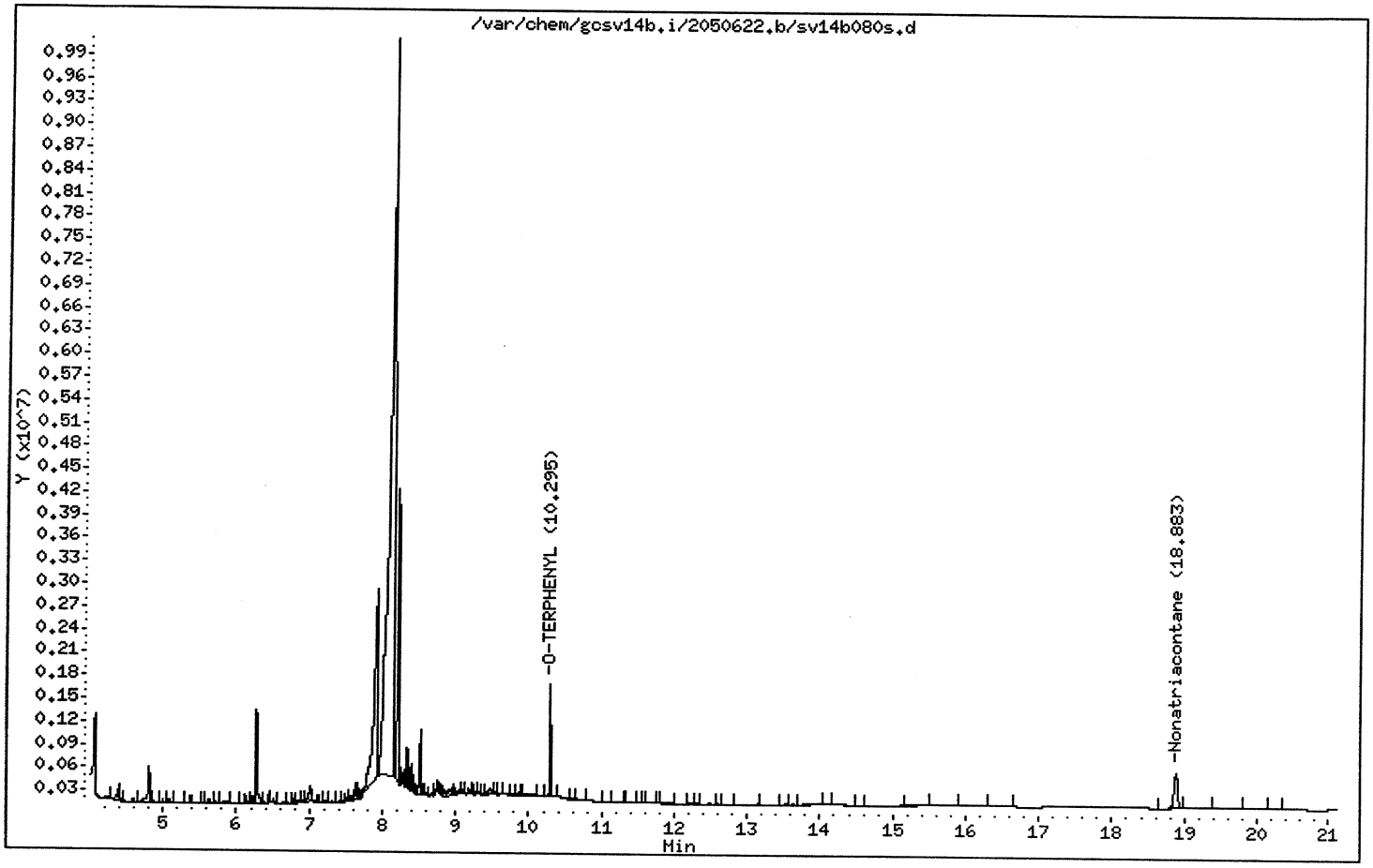
Sample Info: 20506170509*5

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-EB-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170510
Date Collected: 06/16/05 Time: 1650
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 1305
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050622/SV14B078S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	185	B	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b078.d
Lab Smp Id: 20506170510
Inj Date : 23-JUN-2005 13:05
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170510*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 78
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	10.300	10.284	0.016	570761090	214.915	429.8297(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{570761090 - 324393749}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 185 ug/L$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b078s.d
Lab Smp Id: 20506170510
Inj Date : 23-JUN-2005 13:05
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170510*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 23-Jun-2005 11:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 78
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	10.300	10.308	-0.008	115252612	38.4709	76.9417
$ 18 Nonatriacontane	18.957	18.975	-0.018	209141137	146.370	292.7396

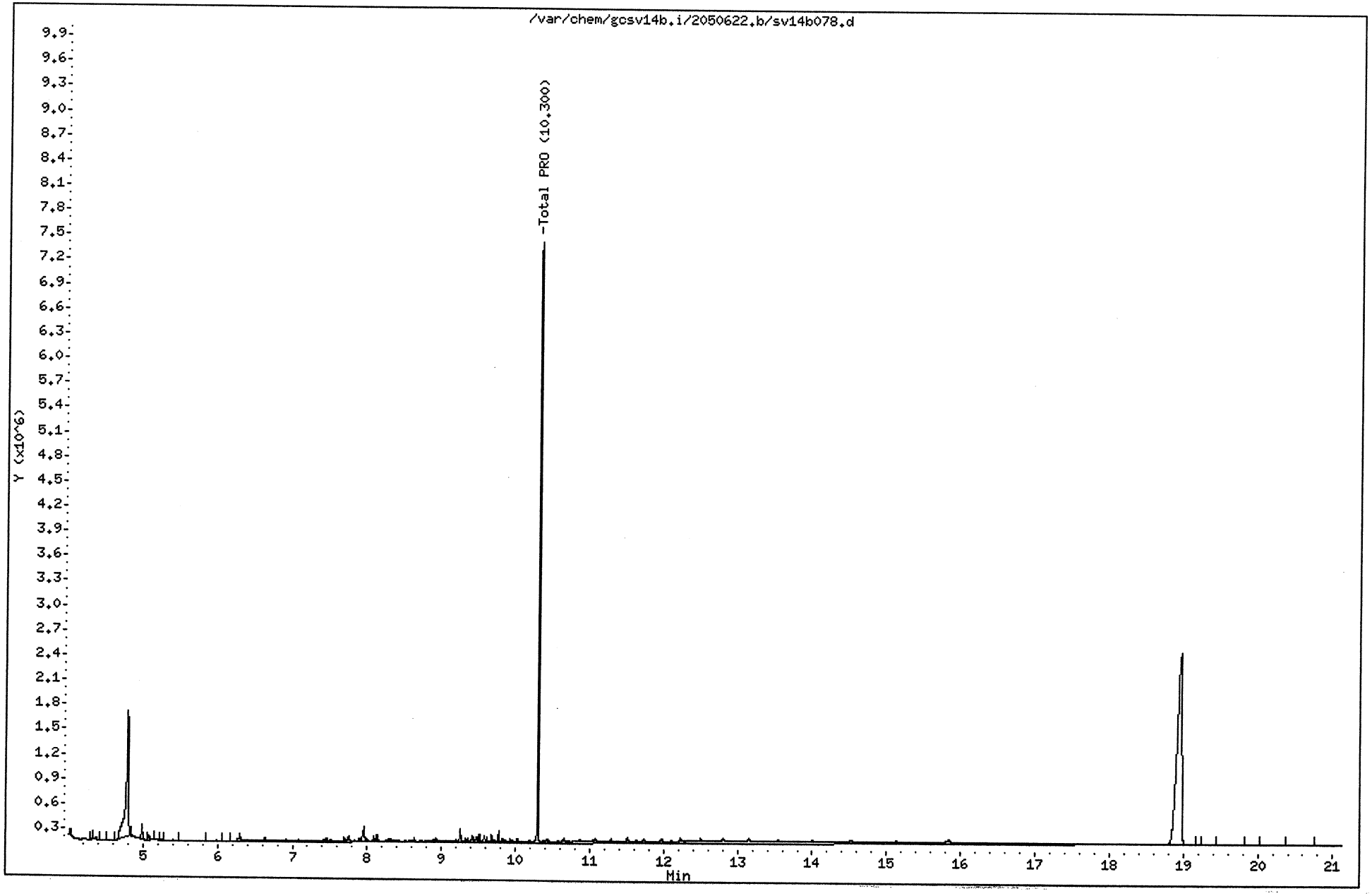
324393749

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b078.d
Date : 23-JUN-2005 13:05
Client ID:
Sample Info: 20506170510*1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000441



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b078s.d

Date : 23-JUN-2005 13:05

Client ID:

Instrument: gcsv14b.i

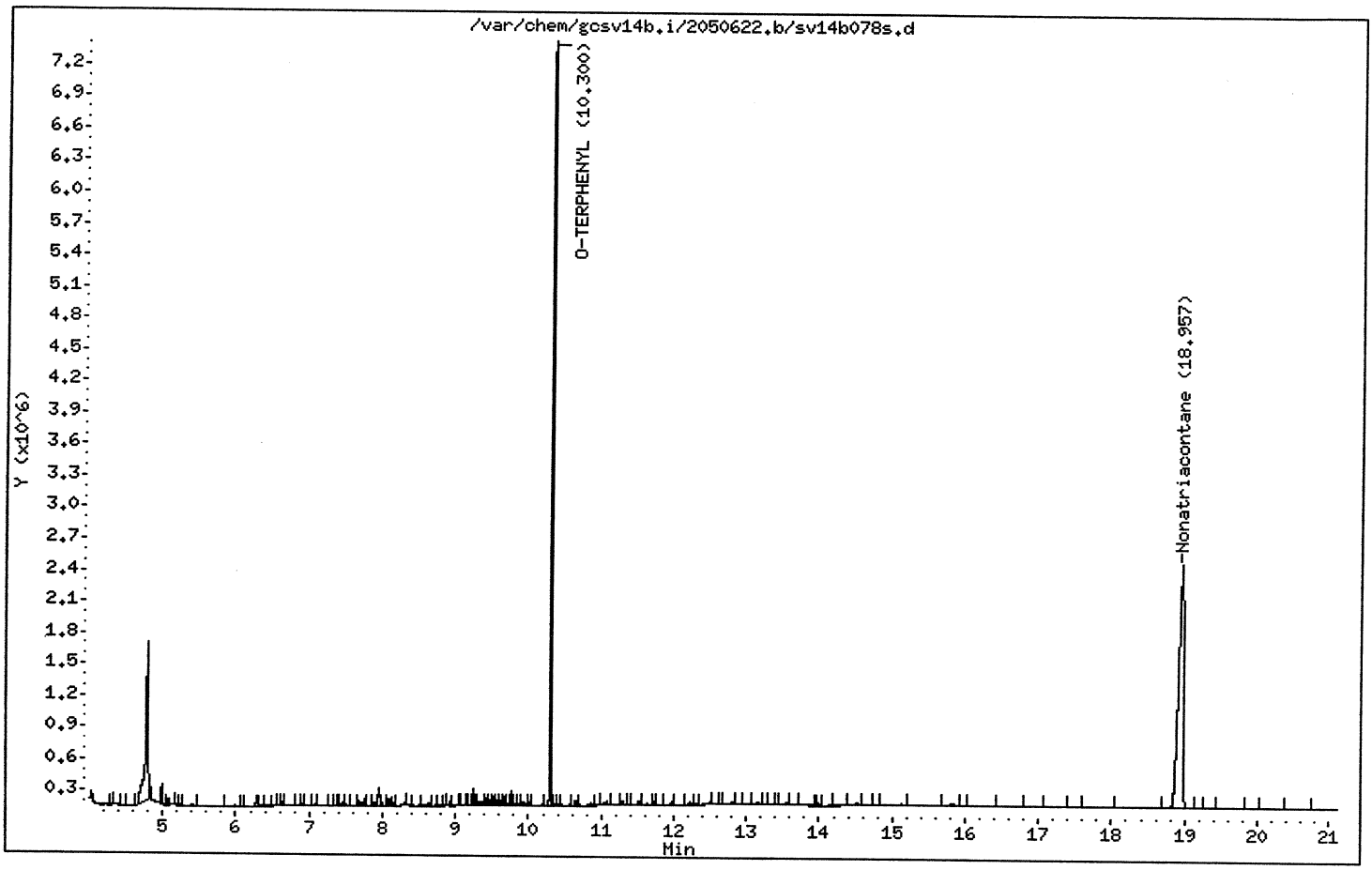
Sample Info: 20506170510x1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2005 14:41
End Cal Date : 22-JUN-2005 17:32
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050622.b/flpro.m
Cal Date : 22-Jun-2005 19:28 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2050622.b/sv14b052.d
Level 2: /var/chem/gcsv14b.i/2050622.b/sv14b053.d
Level 3: /var/chem/gcsv14b.i/2050622.b/sv14b054.d
Level 4: /var/chem/gcsv14b.i/2050622.b/sv14b055.d
Level 5: /var/chem/gcsv14b.i/2050622.b/sv14b056.d
Level 6: /var/chem/gcsv14b.i/2050622.b/sv14b057.d

Compound	6.000 Level 1	50.000 Level 2	150.000 Level 3	250.000 Level 4	350.000 Level 5	500.000 Level 6	___ RRF	% RSD
1 C-8	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
2 C-10	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
3 C-12	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
4 C-14	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
5 C-16	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
6 C-18	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
8 C-20	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
9 C-22	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
10 C-24	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
11 C-26	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
12 C-28	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
13 C-30	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
14 C-32	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
15 C-34	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
16 C-36	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
17 C-38	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
19 C-40	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
20 Total PRO	3644854	2607357	2514010	2408488	2377522	2382295	2655754	18.555
$ 7 O-TERPHENYL	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++
$ 18 Nonatriacontane	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2005 14:41
End Cal Date : 22-JUN-2005 17:32
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050622.b/flpro.m
Cal Date : 22-Jun-2005 19:28 tls
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 20.3552017                 |
|Maximun Average %RSD    =         20                 |
|* Failed Average %RSD Test.                          |
|_____________________________________________________|
```

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2005 14:41
End Cal Date : 22-JUN-2005 17:32
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050622.b/flsur.m
Cal Date : 22-Jun-2005 18:47 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2050622.b/sv14b052s.d
Level 2: /var/chem/gcsv14b.i/2050622.b/sv14b053s.d
Level 3: /var/chem/gcsv14b.i/2050622.b/sv14b054s.d
Level 4: /var/chem/gcsv14b.i/2050622.b/sv14b055s.d
Level 5: /var/chem/gcsv14b.i/2050622.b/sv14b056s.d
Level 6: /var/chem/gcsv14b.i/2050622.b/sv14b057s.d

Compound	6.000 Level 1	50.000 Level 2	150.000 Level 3	250.000 Level 4	350.000 Level 5	500.000 Level 6	___ RRF	% RSD
$ 7 O-TERPHENYL	3018148	3002221	3029307	3032094	3007008	2886269	2995841	1.835
$ 18 Nonatriacontane	1598300	1599978	1490523	1455236	1394676	1034413	1428854	14.655

Gulf Coast Analytical Services

INITIAL CALIBRATION DATA

Start Cal Date : 22-JUN-2005 14:41
End Cal Date : 22-JUN-2005 17:32
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050622.b/flsur.m
Cal Date : 22-Jun-2005 18:47 tls
Curve Type : Average

```
Average %RSD Results.
==============================================
Calculated Average %RSD = 8.24490070
Maximun Average %RSD    =        20
* Passed Average %RSD Test.
```

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b052.d
Lab Smp Id: 1201
Inj Date : 22-JUN-2005 14:41
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1201*1* flpro 6
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 19:41 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 14:41 Cal File: sv14b052.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	10.303	10.284	0.019	1002172348	102.000	271.8997(M)

QC Flag Legend

M - Compound response manually integrated.

1002172348 — 630397220

$\frac{371775078}{102}$ = 3644853

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b052s.d
Lab Smp Id: 1201
Inj Date : 22-JUN-2005 14:41
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1201*1* flpro 6
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 16:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 14:41 Cal File: sv14b052s.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

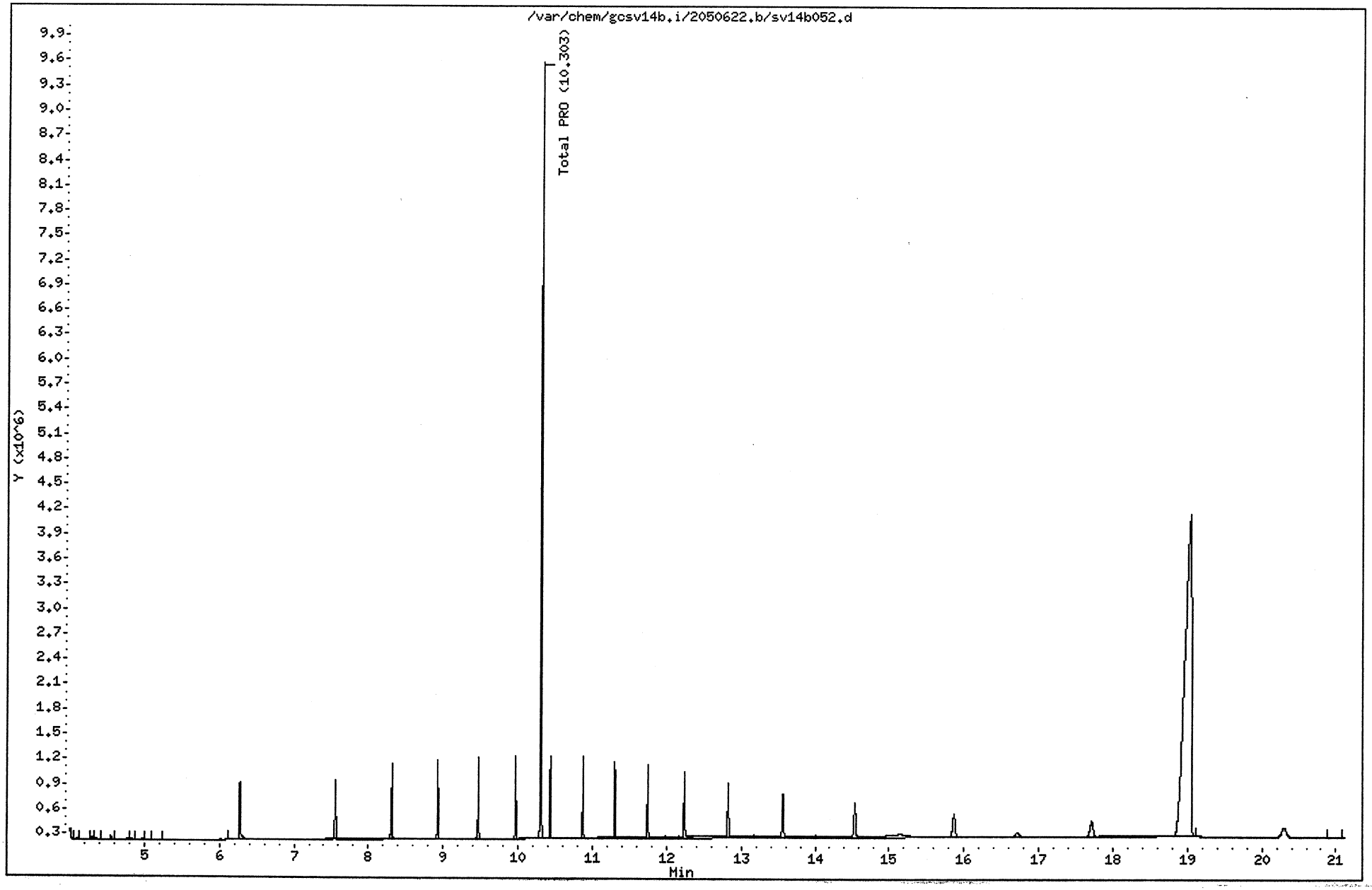
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.303	10.306	-0.003	150907381	50.0000	50.0000
$ 18 Nonatriacontane	19.034	19.034	0.000	479489889	300.000	300.0000

630397270

000449

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b052.d
Date : 22-JUN-2005 14:41
Client ID:
Sample Info: 1201*1* flpro 6
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b052s.d

Date : 22-JUN-2005 14:41

Client ID:

Instrument: gcsv14b.i

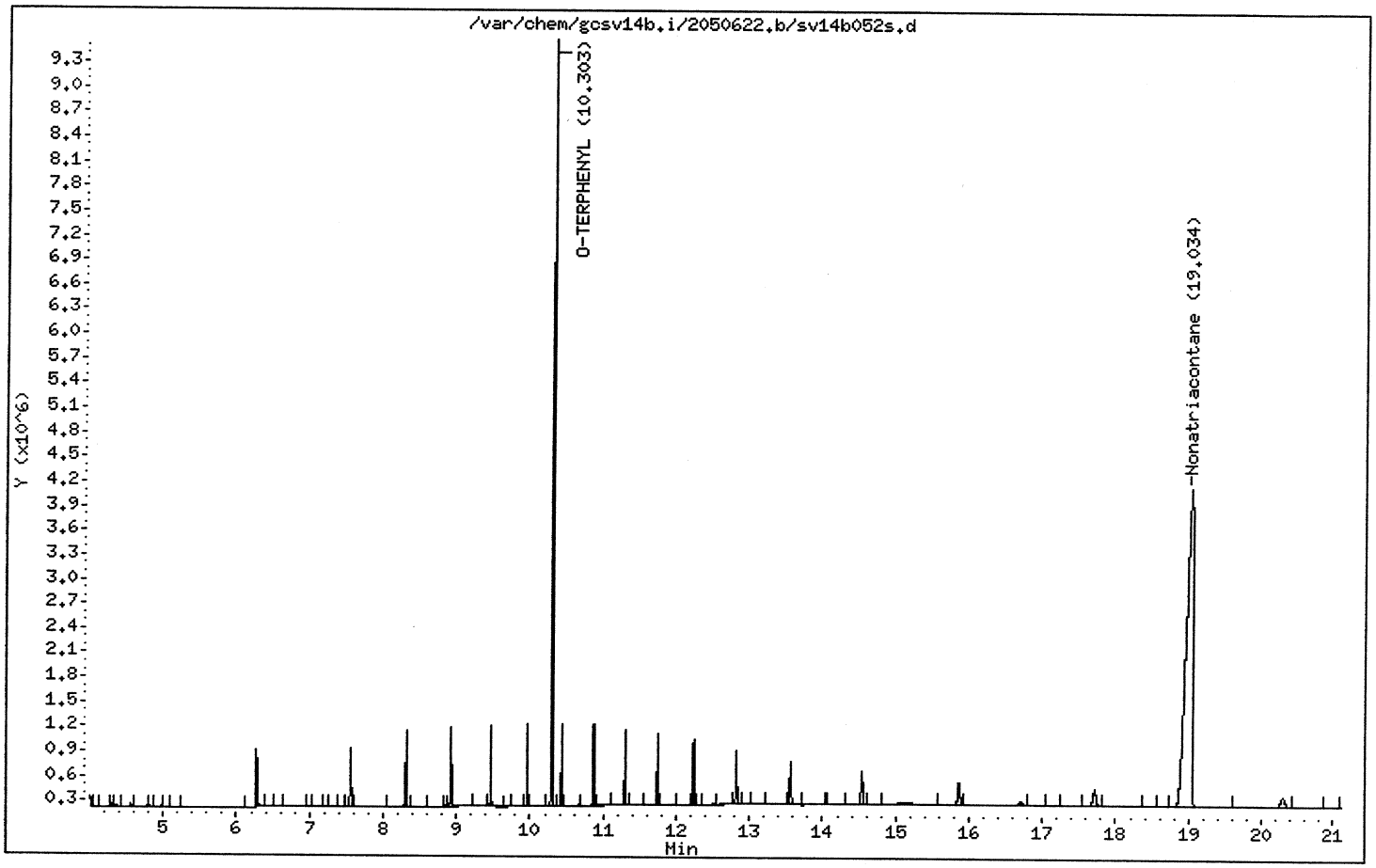
Sample Info: 1201*1* flpro 6

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b053.d
Lab Smp Id: 1202
Inj Date : 22-JUN-2005 15:16
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1202*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 19:42 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 53 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	10.301	10.288	0.013	2846357887	850.000	747.2000(M)

QC Flag Legend

M - Compound response manually integrated.

$2846357887 - 630104523 = \frac{2216253364}{850} = 2607356$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b053s.d
Lab Smp Id: 1202
Inj Date : 22-JUN-2005 15:16
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1202*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 16:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053s.d
Als bottle: 53 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.301	10.306	-0.005	150111068	50.0000	49.8677
$ 18 Nonatriacontane	19.019	19.032	-0.013	479993455	300.000	300.1574

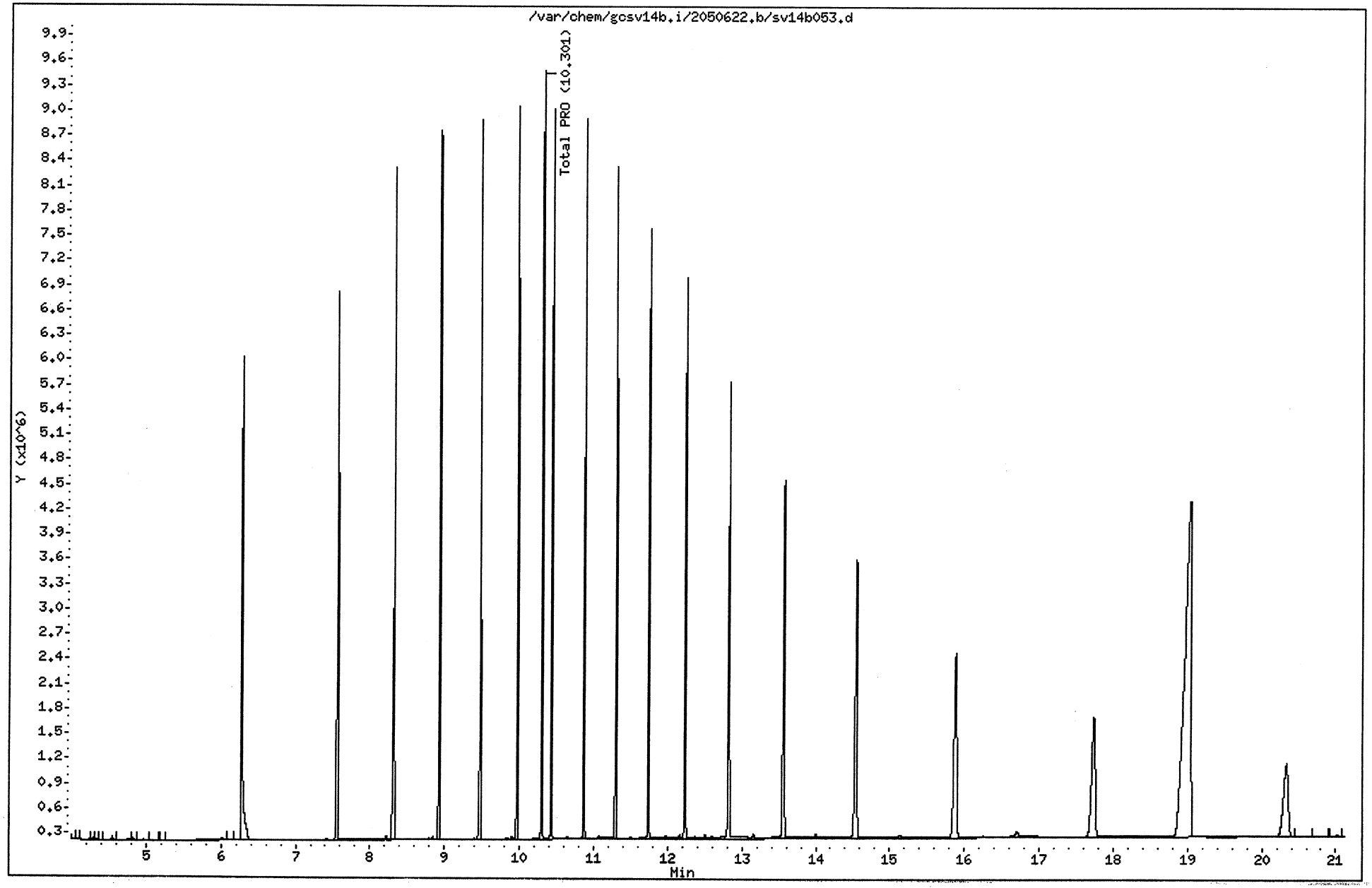
630104523

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b053.d
Date : 22-JUN-2005 15:16
Client ID:
Sample Info: 1202*1* flpro 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000453



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b053s.d

Date : 22-JUN-2005 15:16

Client ID:

Instrument: gcsv14b.i

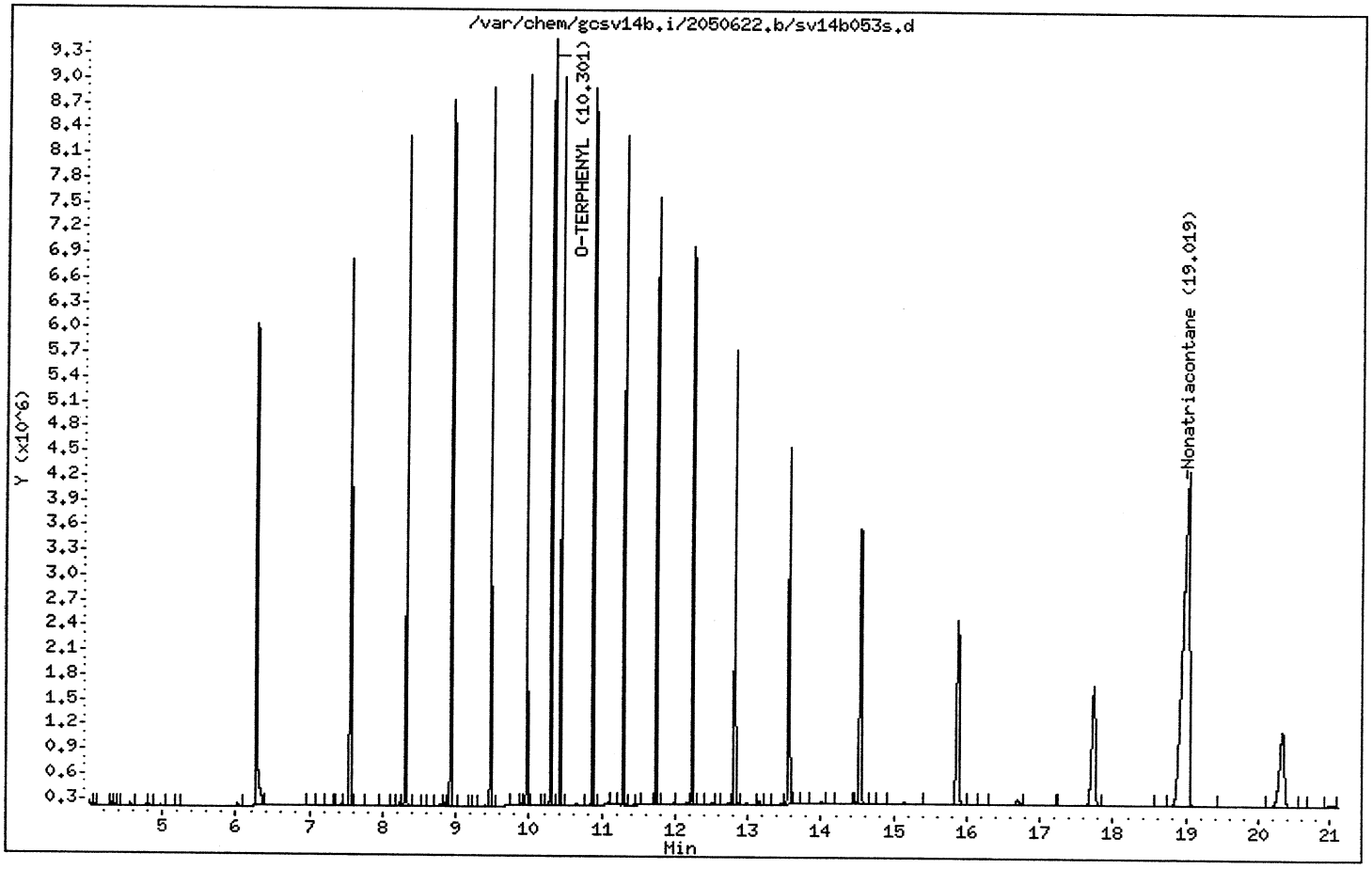
Sample Info: 1202*1* flpro 50

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b054.d
Lab Smp Id: 1203
Inj Date : 22-JUN-2005 15:50
Operator : tls
Inst ID: gcsv14b.i
Smp Info : 1203*1* flpro150
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 16:55 tls
Quant Type: ESTD
Cal Date : 22-JUN-2005 15:50
Cal File: sv14b054.d
Als bottle: 54
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable
Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	10.439	10.412	0.027	7009346640	2550.00	1229.4524(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{7009346640 - 598622157}{2550}$. $\frac{6410724483}{2550}$. 2514009

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b054s.d
Lab Smp Id: 1203
Inj Date : 22-JUN-2005 15:50
Operator : tls
Inst ID: gcsv14b.i
Smp Info : 1203*1* flpro150
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 16:50 tls
Quant Type: ESTD
Cal Date : 22-JUN-2005 15:50
Cal File: sv14b054s.d
Als bottle: 54
Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.304	10.306	-0.002	151465372	50.0000	50.2113
$ 18 Nonatriacontane	19.034	19.032	0.002	447156785	300.000	286.1009

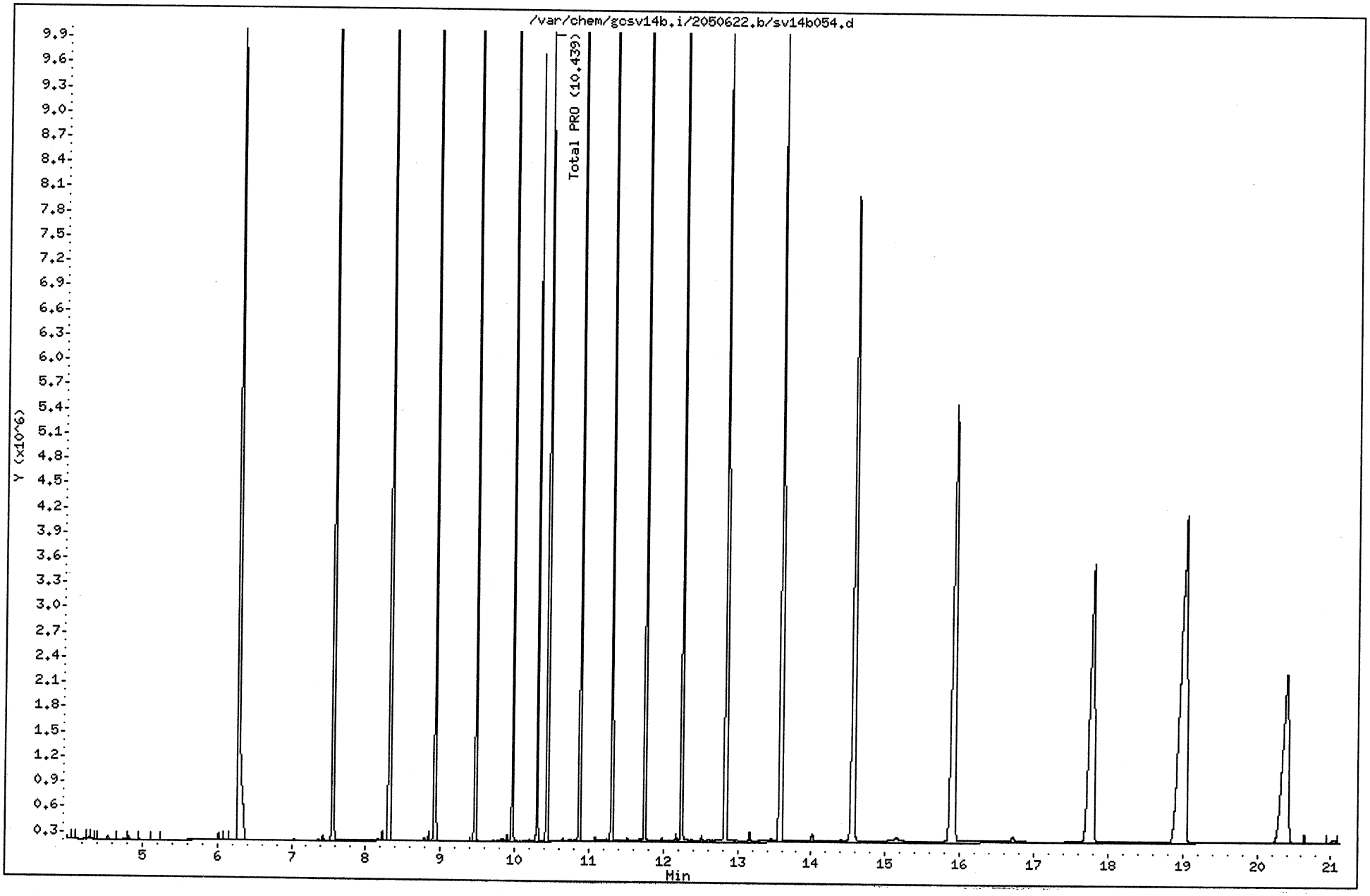
S98622157

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b054.d
Date : 22-JUN-2005 15:50
Client ID:
Sample Info: 1203*1* flpro150
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000457



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b054s.d

Date : 22-JUN-2005 15:50

Client ID:

Instrument: gcsv14b.i

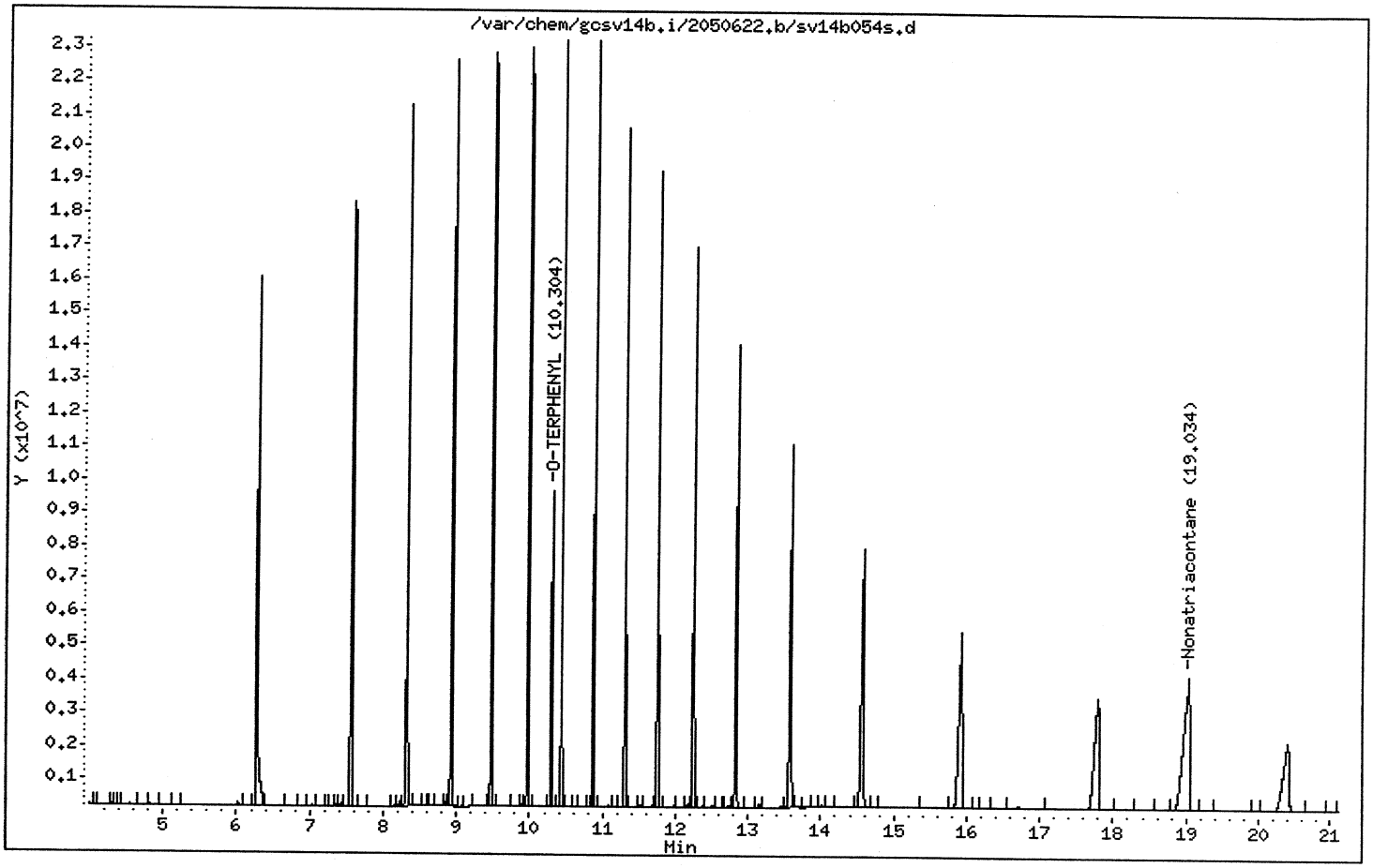
Sample Info: 1203*1* flpro150

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b055.d
Lab Smp Id: 1204
Inj Date : 22-JUN-2005 16:24
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1204*1* flpro250
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 18:51 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 16:24 Cal File: sv14b055.d
Als bottle: 55 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	9.481	9.488	-0.007	10824250893	4250.00	2644.4303(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{10824250893 - 588175524}{4250} = \frac{10236075369}{4250} - 2408488$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b055s.d
Lab Smp Id: 1204
Inj Date : 22-JUN-2005 16:24
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1204*1* flpro250
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:46 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 16:24 Cal File: sv14b055s.d
Als bottle: 55 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.302	10.306	-0.004	151604696	50.0000	50.1928
$ 18 Nonatriacontane	19.015	19.032	-0.017	436570828	300.000	284.2241

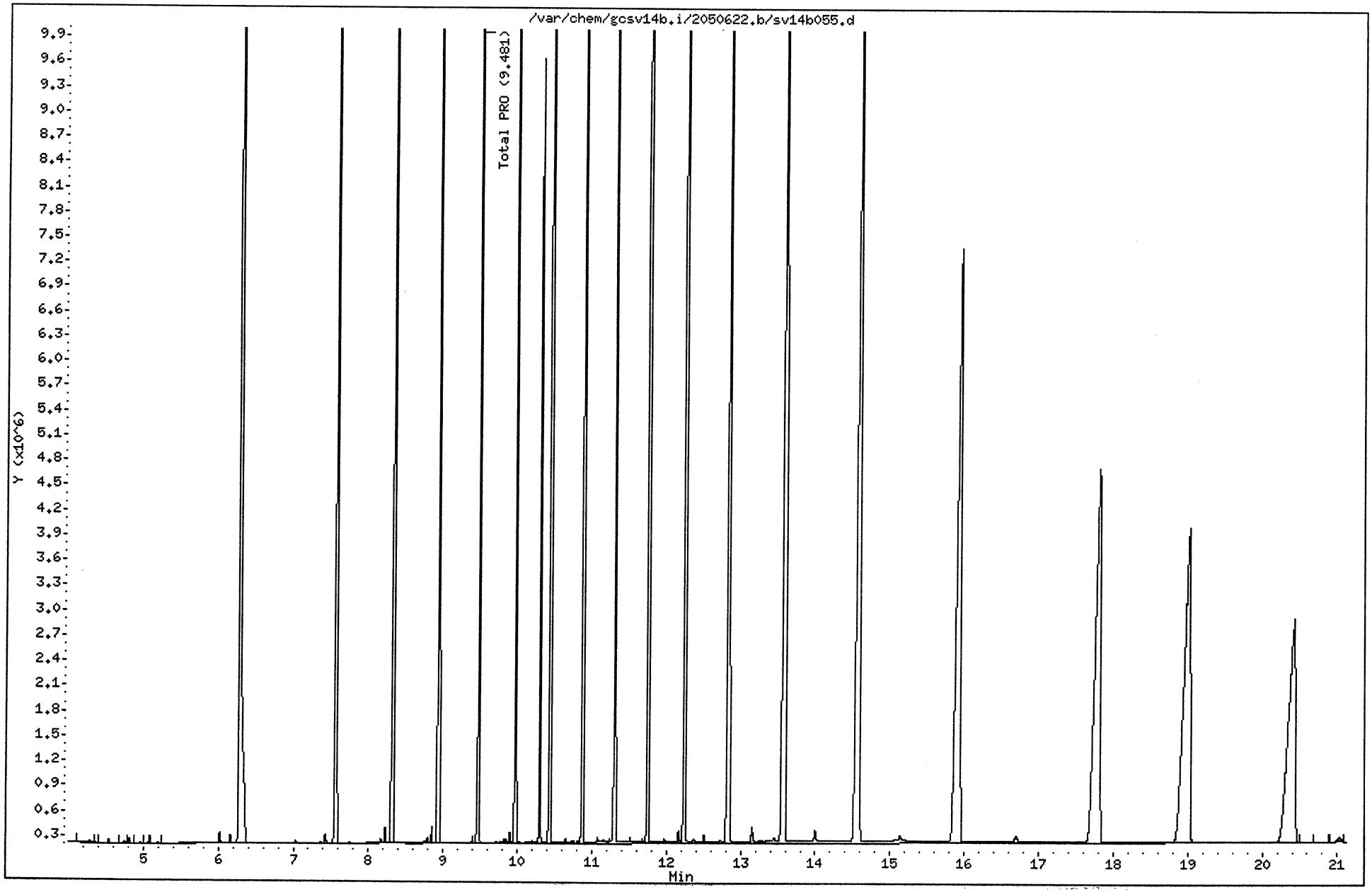
58817S524

000461

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b055.d
Date : 22-JUN-2005 16:24
Client ID:
Sample Info: 1204*1* flpro250
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b055s.d

Date : 22-JUN-2005 16:24

Client ID:

Instrument: gcsv14b.i

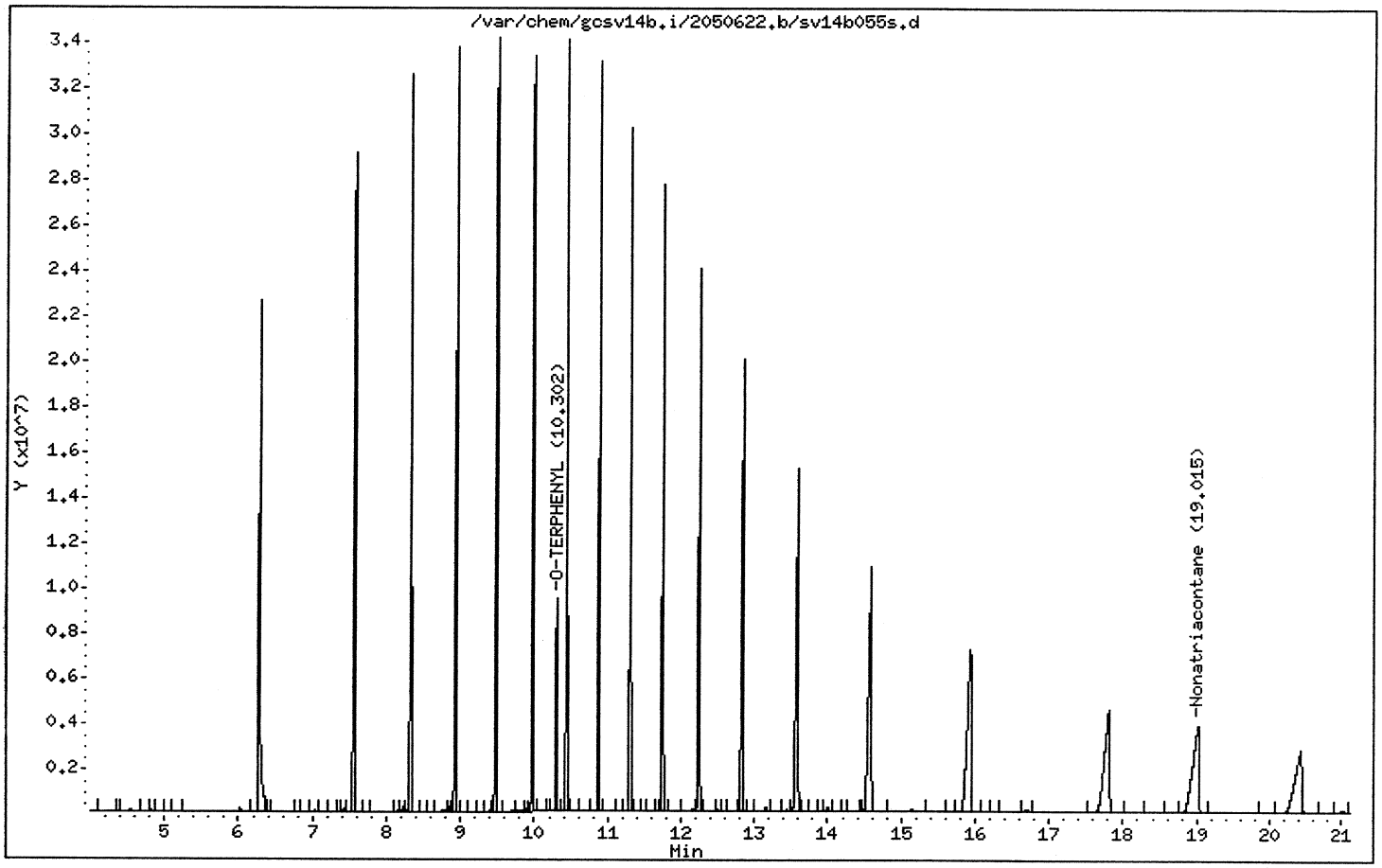
Sample Info: 1204*1* flpro250

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b056.d
Lab Smp Id: 1205
Inj Date : 22-JUN-2005 16:58
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1205*1* flpro350
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 18:52 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 16:58 Cal File: sv14b056.d
Als bottle: 56 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	9.977	9.488	0.489	14715007659	5950.00	3594.9658(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{14715007659 - 568753217}{5950}$ $\frac{14146254442}{5950}$ 2377521

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b056s.d
Lab Smp Id: 1205
Inj Date : 22-JUN-2005 16:58
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1205*1* flpro350
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:47 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 16:58 Cal File: sv14b056s.d
Als bottle: 56 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.296	10.306	-0.010	150350384	50.0000	50.1863
$ 18 Nonatriacontane	18.983	18.983	0.000	418402833	300.000	277.5028

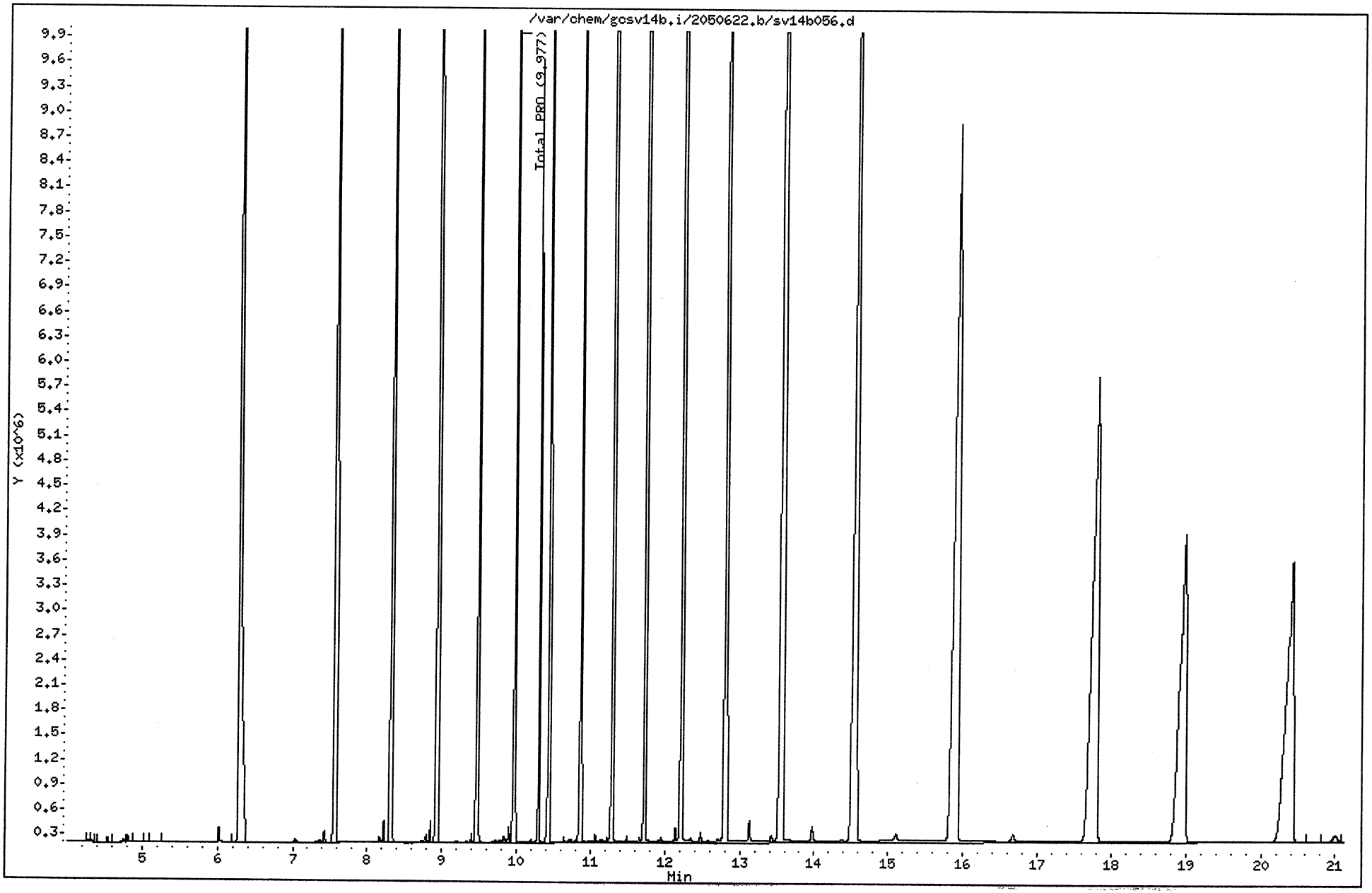
568753217

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b056.d
Date : 22-JUN-2005 16:58
Client ID:
Sample Info: 1205x1x flpro350
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000465



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b056s.d

Date : 22-JUN-2005 16:58

Client ID:

Instrument: gcsv14b.i

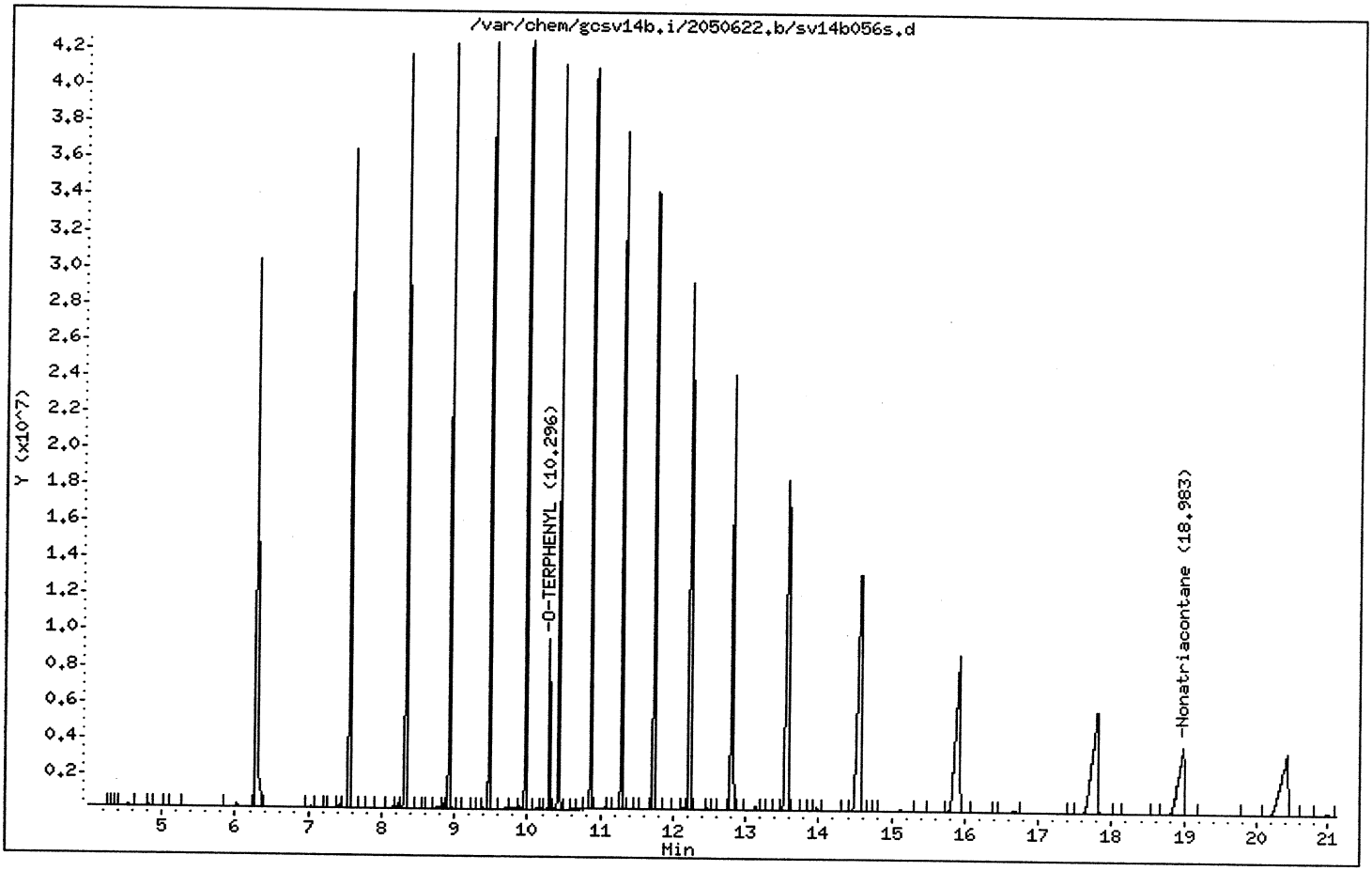
Sample Info: 1205x1x flpro350

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b057.d
Lab Smp Id: 1206
Inj Date : 22-JUN-2005 17:32
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1206*1* flpro500
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 18:52 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057.d
Als bottle: 57 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	9.488	9.488	0.000	20704143713	8500.00	5058.1481(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{20704143713 - 454637345}{8500} \qquad \frac{20249506368}{8500} = 2382294$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b057s.d
Lab Smp Id: 1206
Inj Date : 22-JUN-2005 17:32
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1206*1* flpro500
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:47 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 57 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	10.296	10.306	-0.010	144313472	50.0000	48.1712
$ 18 Nonatriacontane	18.970	18.970	0.000	310323873	300.000	217.1837

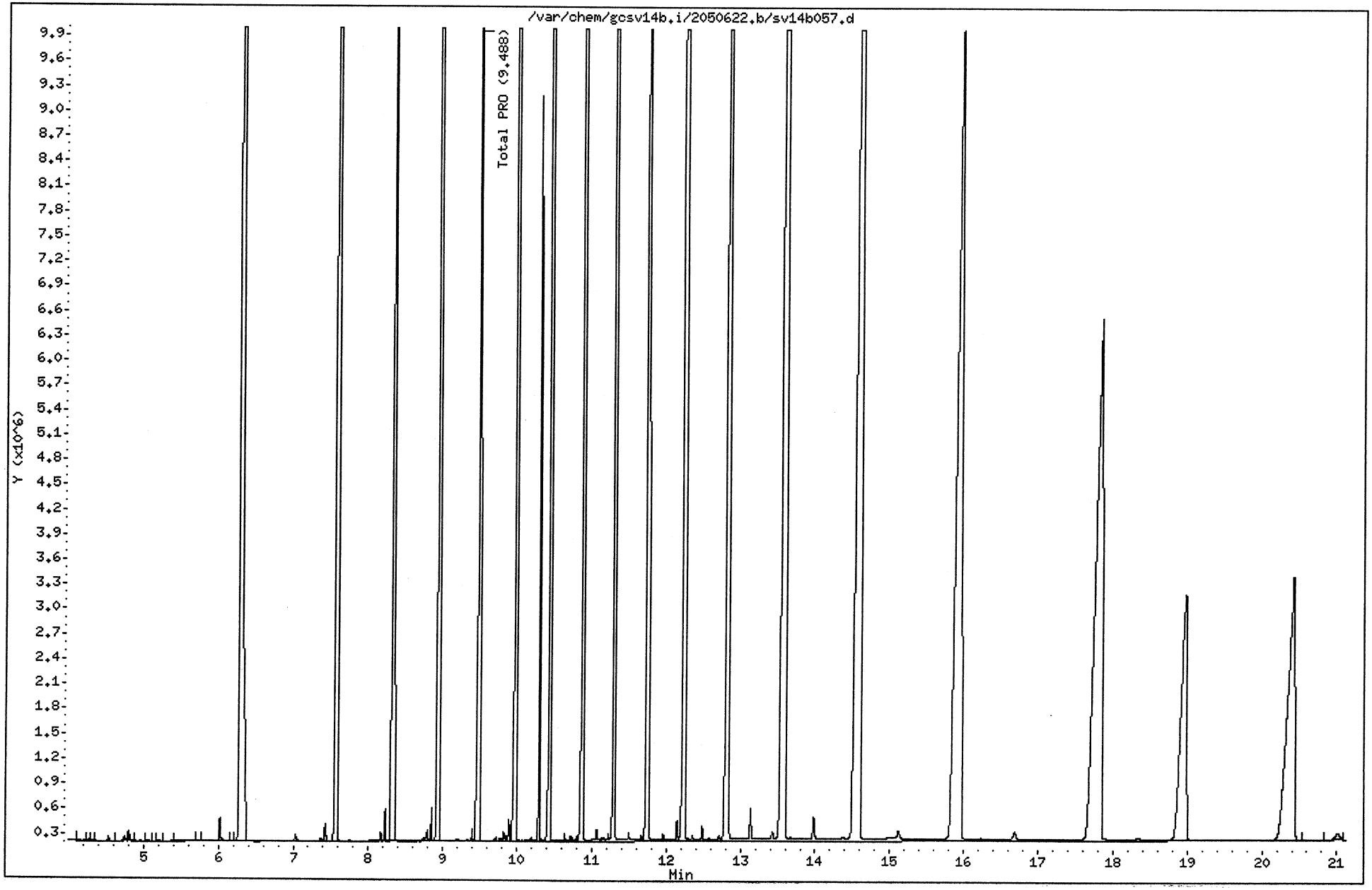
4 54637345

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b057.d
Date : 22-JUN-2005 17:32
Client ID:
Sample Info: 1206x1x flpro500
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000469



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b057s.d

Date : 22-JUN-2005 17:32

Client ID:

Instrument: gcsv14b.i

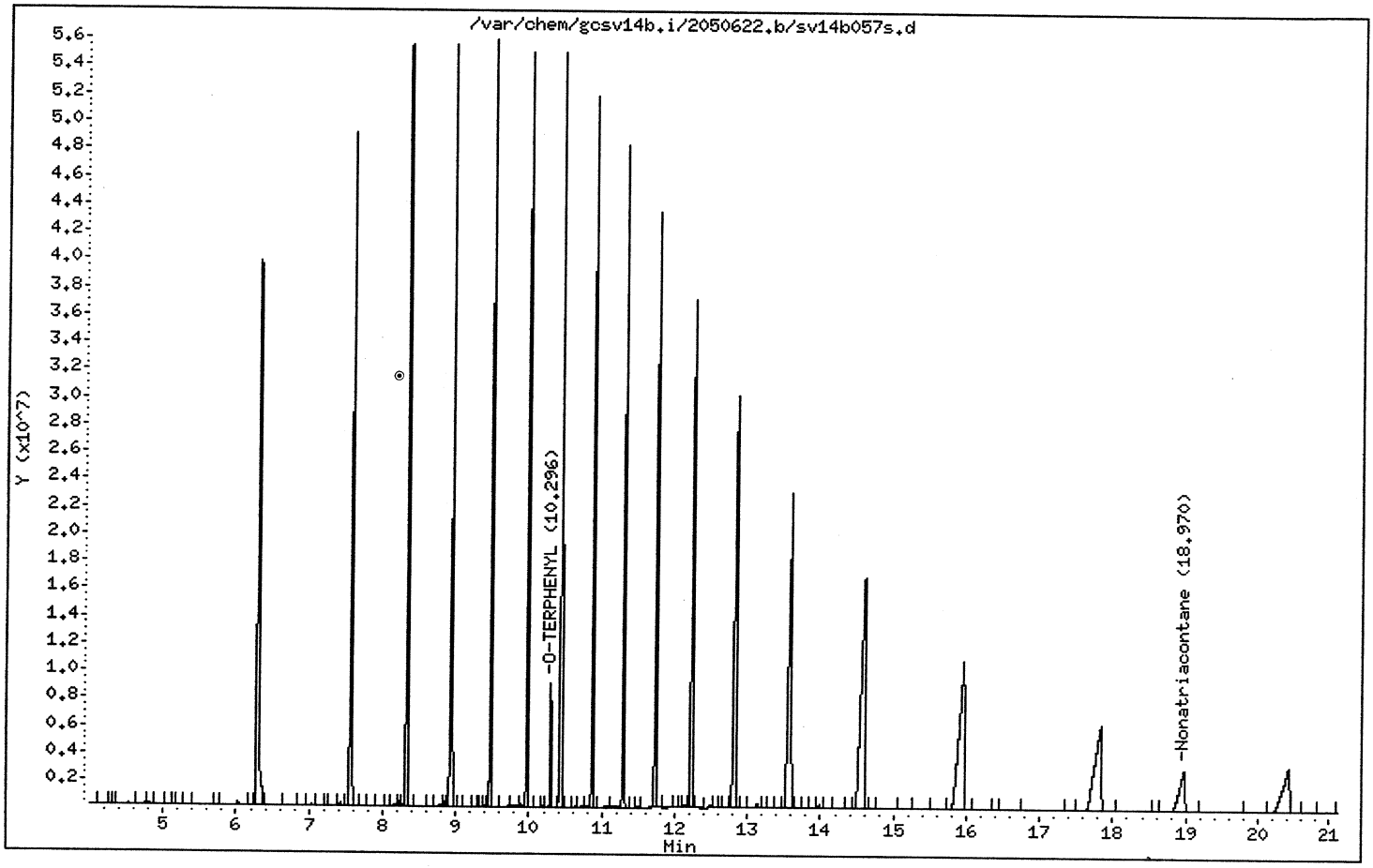
Sample Info: 1206x1x flpro500

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b058.d
Lab Smp Id: 1600
Inj Date : 22-JUN-2005 18:06
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1600*1* flproicv
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 19:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	9.963	9.699	0.264	2425756738	913.397	73071.7246(M)

QC Flag Legend

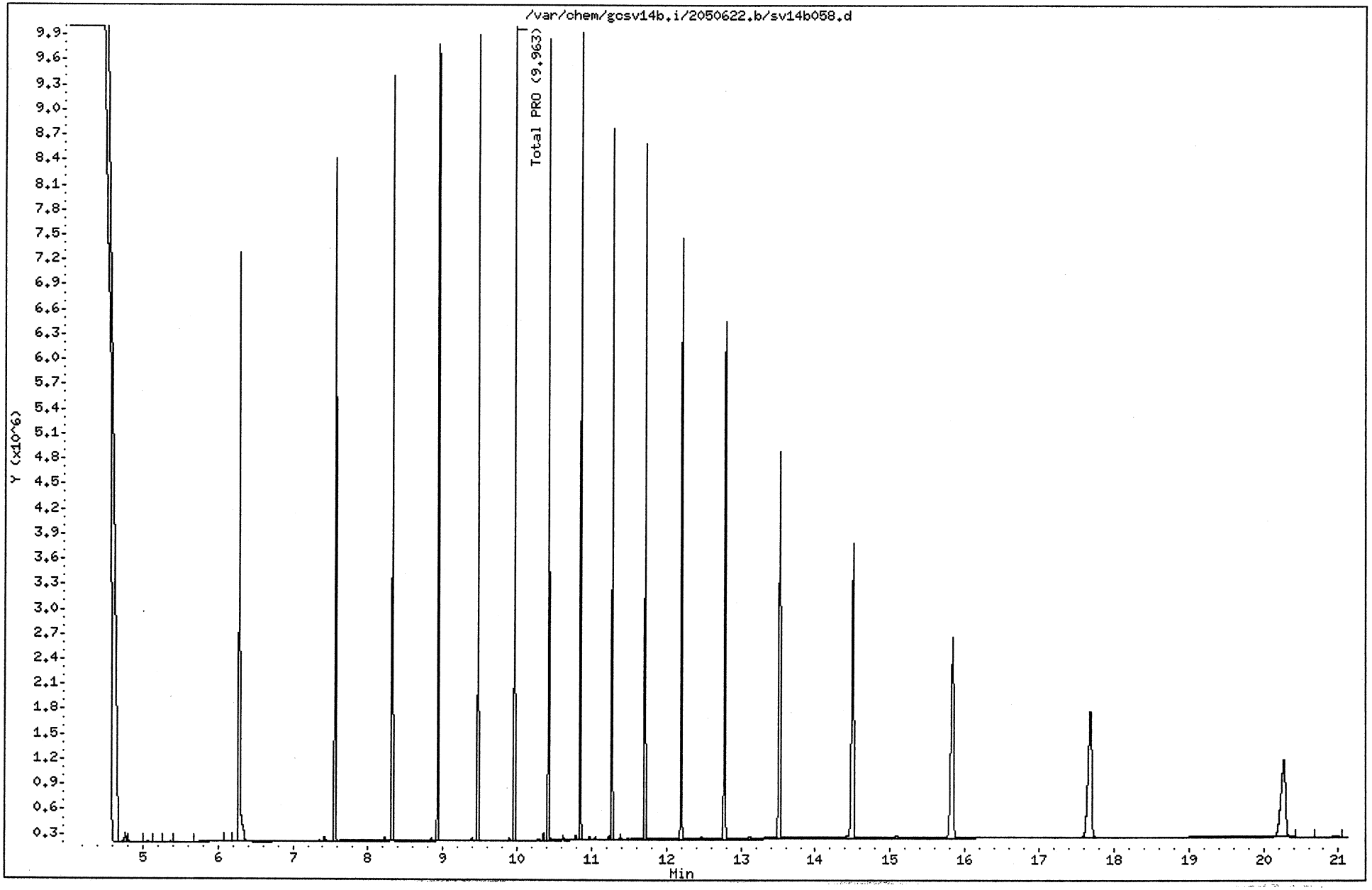
M - Compound response manually integrated.

$\frac{2425756738}{850}$ $\frac{2853831 - 2655754}{2655754} \cdot 100 =$ 7%

000472

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b058.d
Date : 22-JUN-2005 18:06
Client ID:
Sample Info: 1600x1x flproicv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 205061705 SAS No.: SDG No.: 205061705

Instrument ID: GCSV14B Calibration Date: 06/23/05 Time: 0107

Lab File ID: SV14B069 Init. Calib. Date(s): 06/22/05 06/22/05

Init. Calib. Times: 1441 1732

COMPOUND	RRF	RRF500	MIN RRF	%D	MAX %D
Total PRO	2655754	2716099	0.010	2.3	25
O-TERPHENYL	2995841	2996140	0.010	0.01	25
Nonatriacontane	1428854	1655701	0.010	15.9	25

All other compounds must meet a minimum RRF of 0.010.

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b069.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 01:07
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:03 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 69 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	10.284	10.284	0.000	2955201620	850.000	1112.7541(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2955201620 - 646517252}{850} = \frac{2716099 - 2655754}{2655754} = 2\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b069s.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 01:07
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

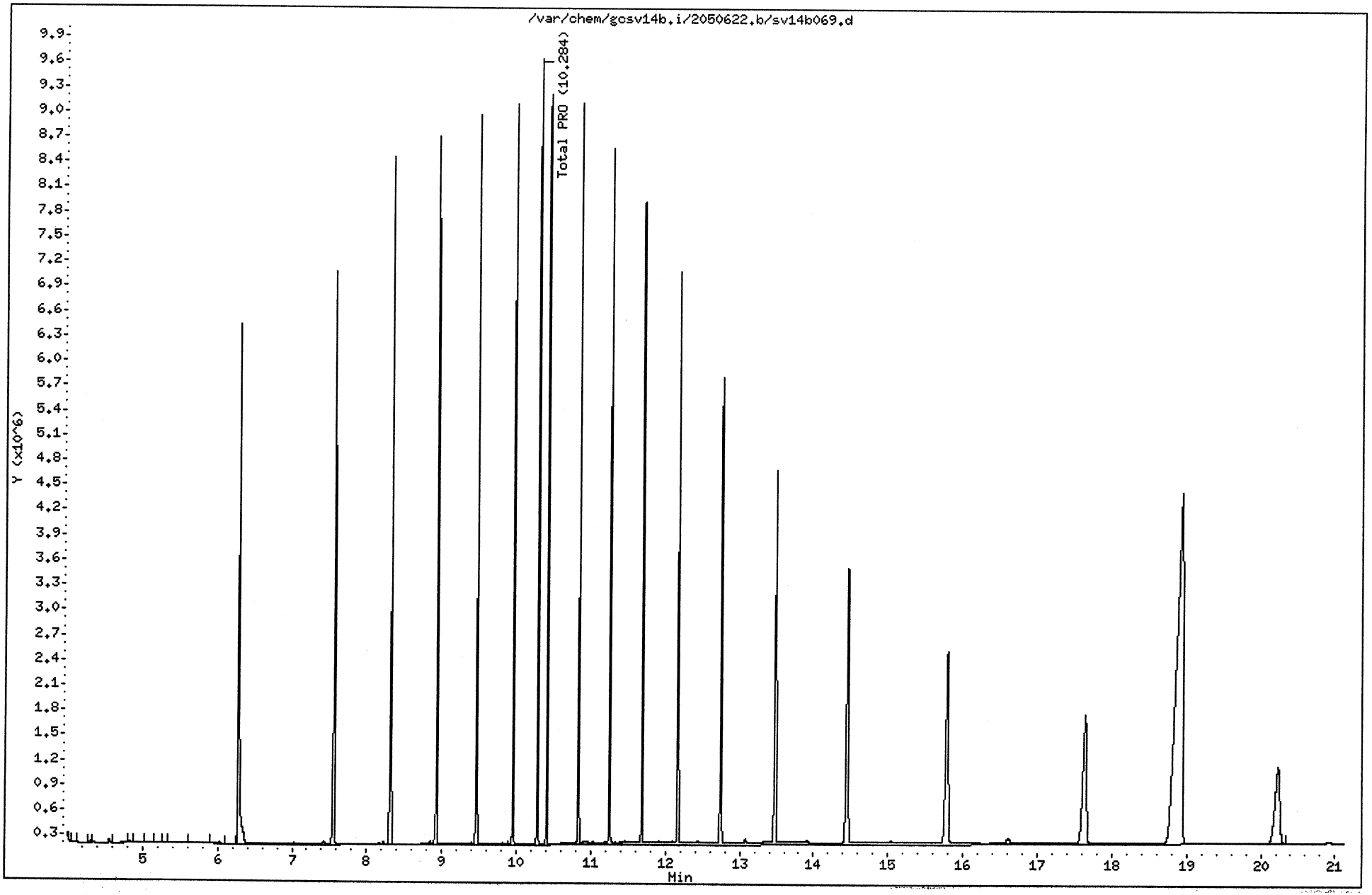
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	10.284	10.306	-0.022	149806986	50.0050	4000.3985
$ 18 Nonatriacontane	18.928	18.970	-0.042	496710266	347.628	27810.2690

646517252

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b069.d
Date : 23-JUN-2005 01:07
Client ID:
Sample Info: 1400*1* flpro 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53



000476

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b069s.d

Date : 23-JUN-2005 01:07

Client ID:

Instrument: gcsv14b.i

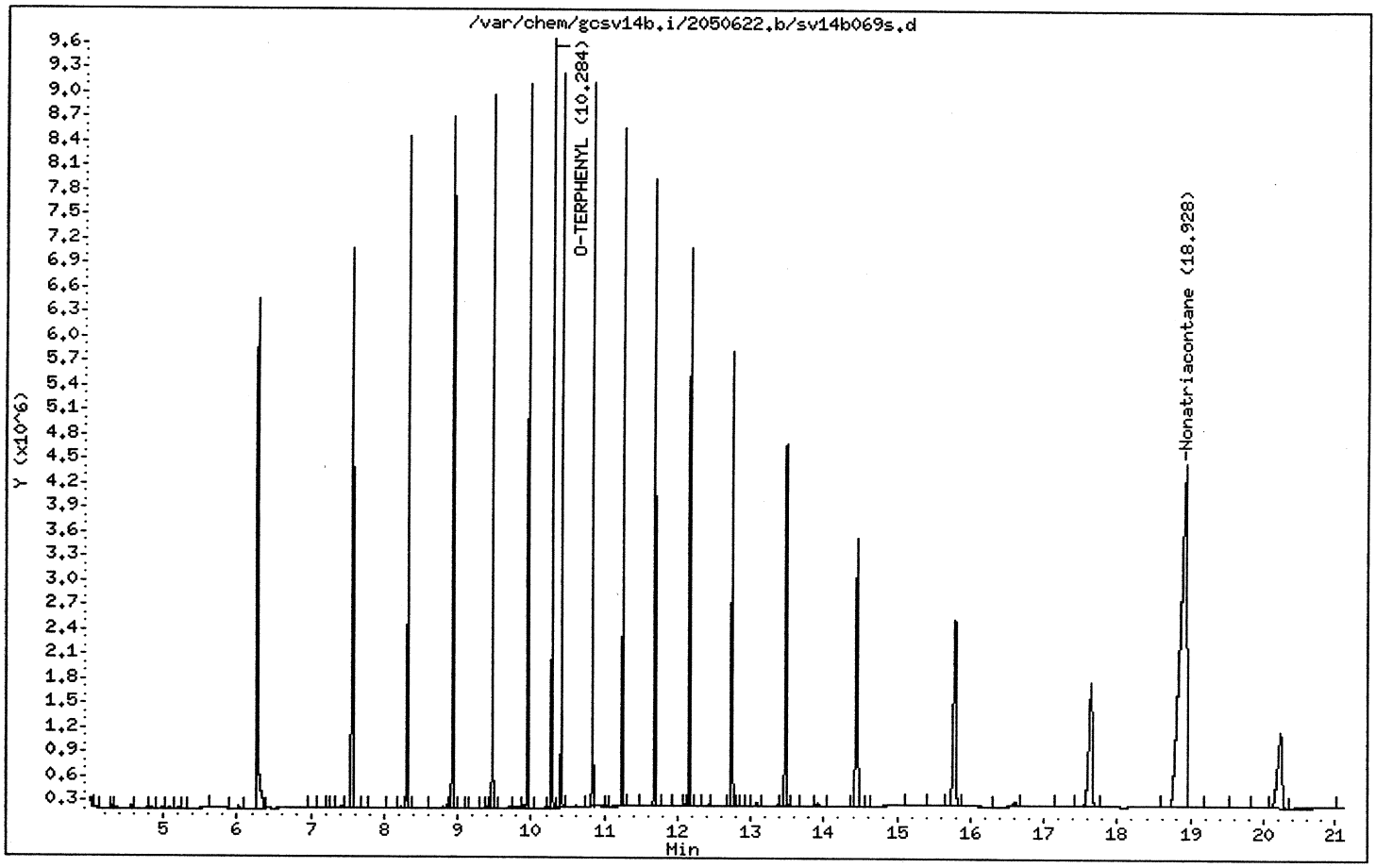
Sample Info: 1400x1x flpro 50

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 205061705 SAS No.: SDG No.: 205061705

Instrument ID: GCSV14B Calibration Date: 06/23/05 Time: 1046

Lab File ID: SV14B074 Init. Calib. Date(s): 06/22/05 06/22/05

Init. Calib. Times: 1441 1732

COMPOUND	$\overline{RRF}$	RRF500	MIN RRF	%D	MAX %D
Total PRO	2655754	2374065	0.010	10.6	25
O-TERPHENYL	2995841	2712679	0.010	9.5	25
Nonatriacontane	1428854	1164533	0.010	18.5	25

All other compounds must meet a minimum RRF of 0.010.

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b074.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 10:46
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 74
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	10.304	10.284	0.020	2502949544	942.463	75397.0244(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2502949544 - 484993736}{850} = \frac{2374065 - 2655754}{2655754} \cdot 100 = 10.6\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b074s.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 10:46
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1* flpro 50
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 74
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	10.304	10.306	-0.002	135633956	45.2741	3621.9263
$ 18 Nonatriacontane	19.019	18.970	0.049	349359780	244.503	19560.2751

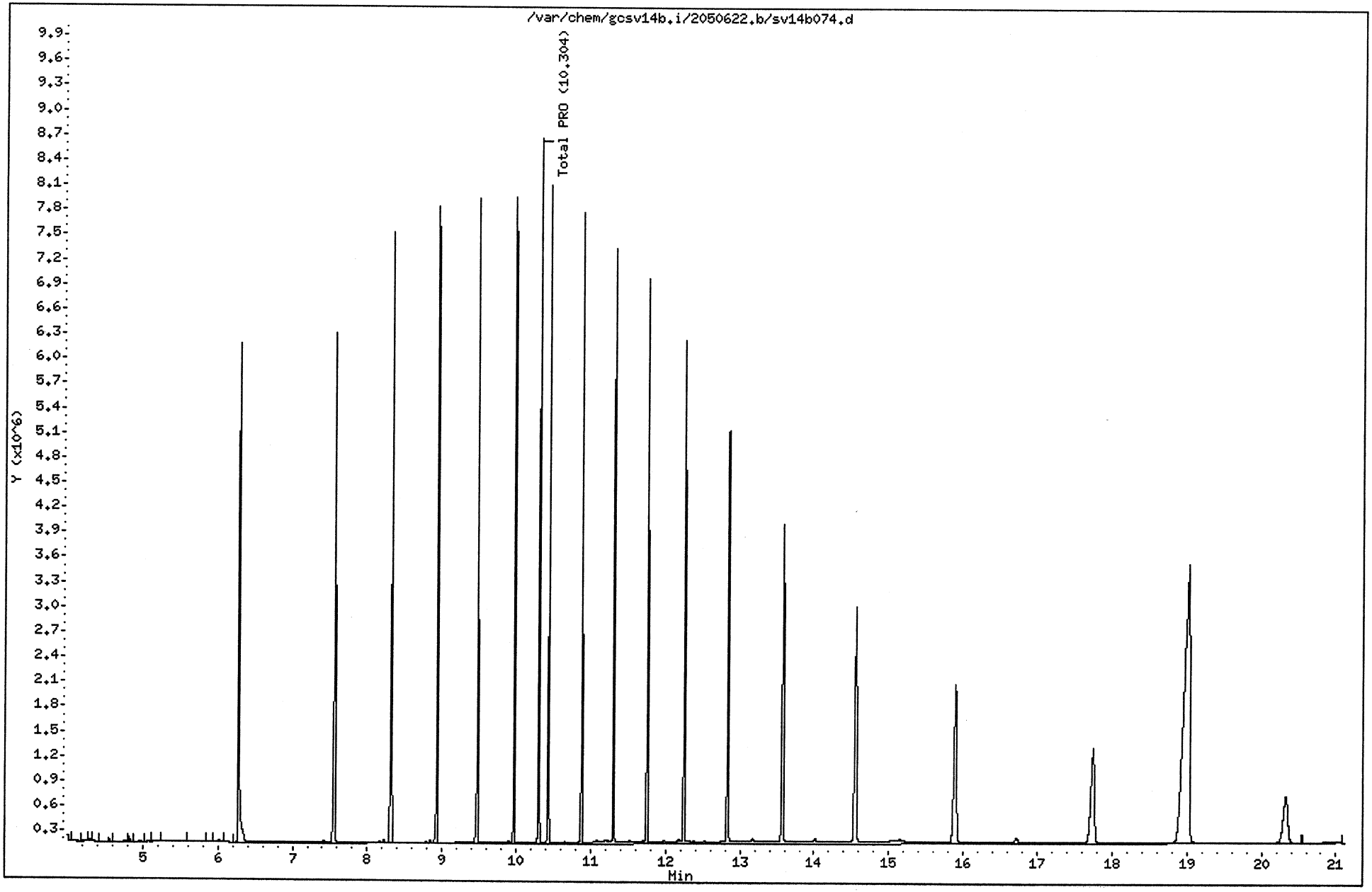
484993736

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b074.d
Date : 23-JUN-2005 10:46
Client ID:
Sample Info: 1400*1* flpro 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000481



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b074s.d

Date : 23-JUN-2005 10:46

Client ID:

Instrument: gcsv14b.i

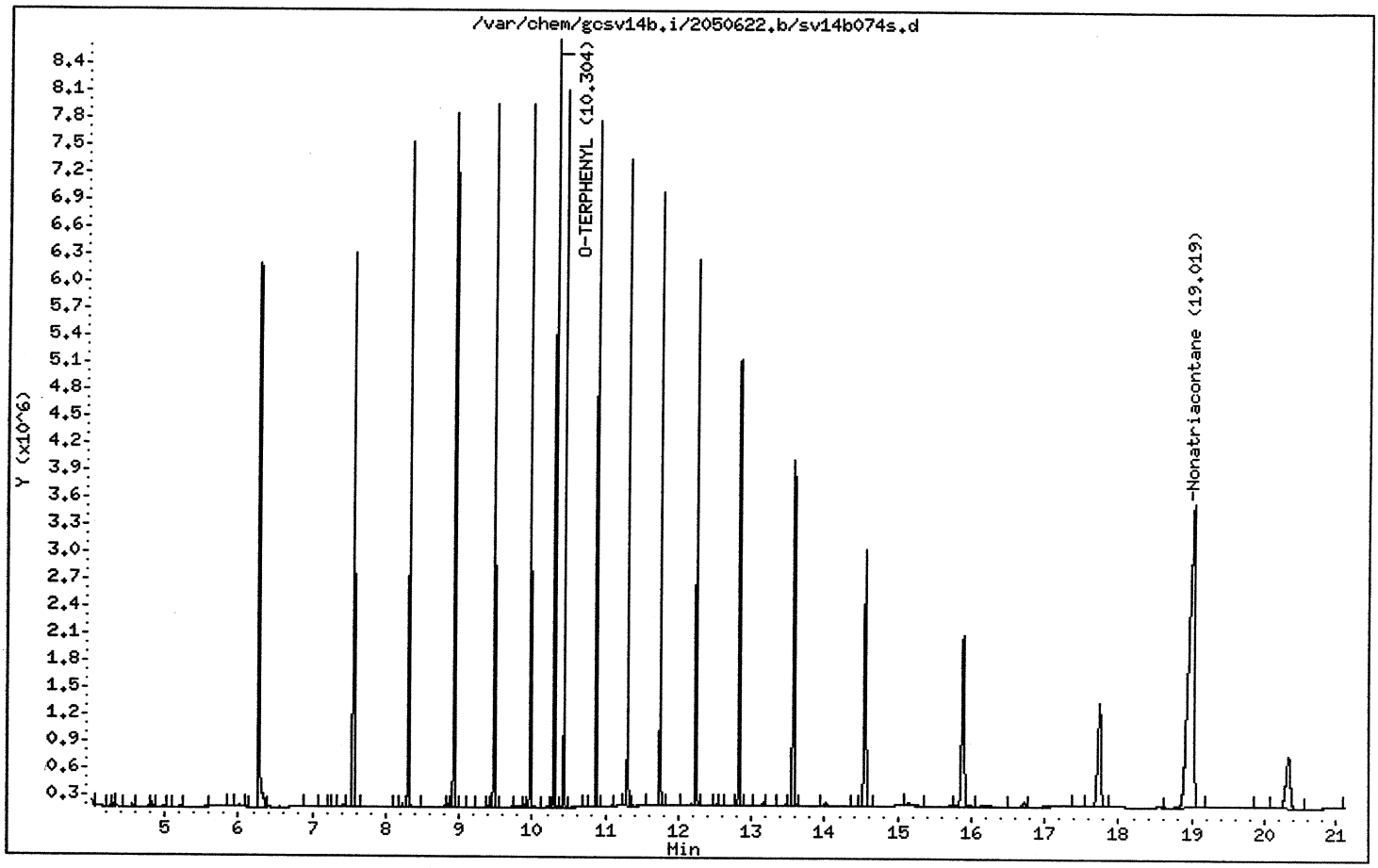
Sample Info: 1400x1x flpro 50

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 205061705 SAS No.: SDG No.: 205061705

Instrument ID: GCSV14B Calibration Date: 06/23/05 Time: 1754

Lab File ID: SV14B081 Init. Calib. Date(s): 06/22/05 06/22/05

Init. Calib. Times: 1441 1732

COMPOUND	RRF	RRF500	MIN RRF	%D	MAX %D
Total PRO	2655754	3265693	0.010	22.9	25
O-TERPHENYL	2995841	3071325	0.010	2.5	25
Nonatriacontane	1428854	1342714	0.010	6.0	25

All other compounds must meet a minimum RRF of 0.010.

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b081.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 17:54
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1 flpro 6
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 81
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	10.312	10.284	0.028	889281297	334.851	26788.0604(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{889281297 - 556180567}{102}$ $\frac{3265693 - 2655754}{2655754} \cdot 100 = 22\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b081s.d
Lab Smp Id: 1400
Inj Date : 23-JUN-2005 17:54
Operator : tls Inst ID: gcsv14b.i
Smp Info : 1400*1 flpro 6
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 23-Jun-2005 11:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 81
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	10.311	10.308	0.003	153566274	51.2598	4100.7853
$ 18 Nonatriacontane	19.068	18.975	0.093	402814293	281.914	22553.1353

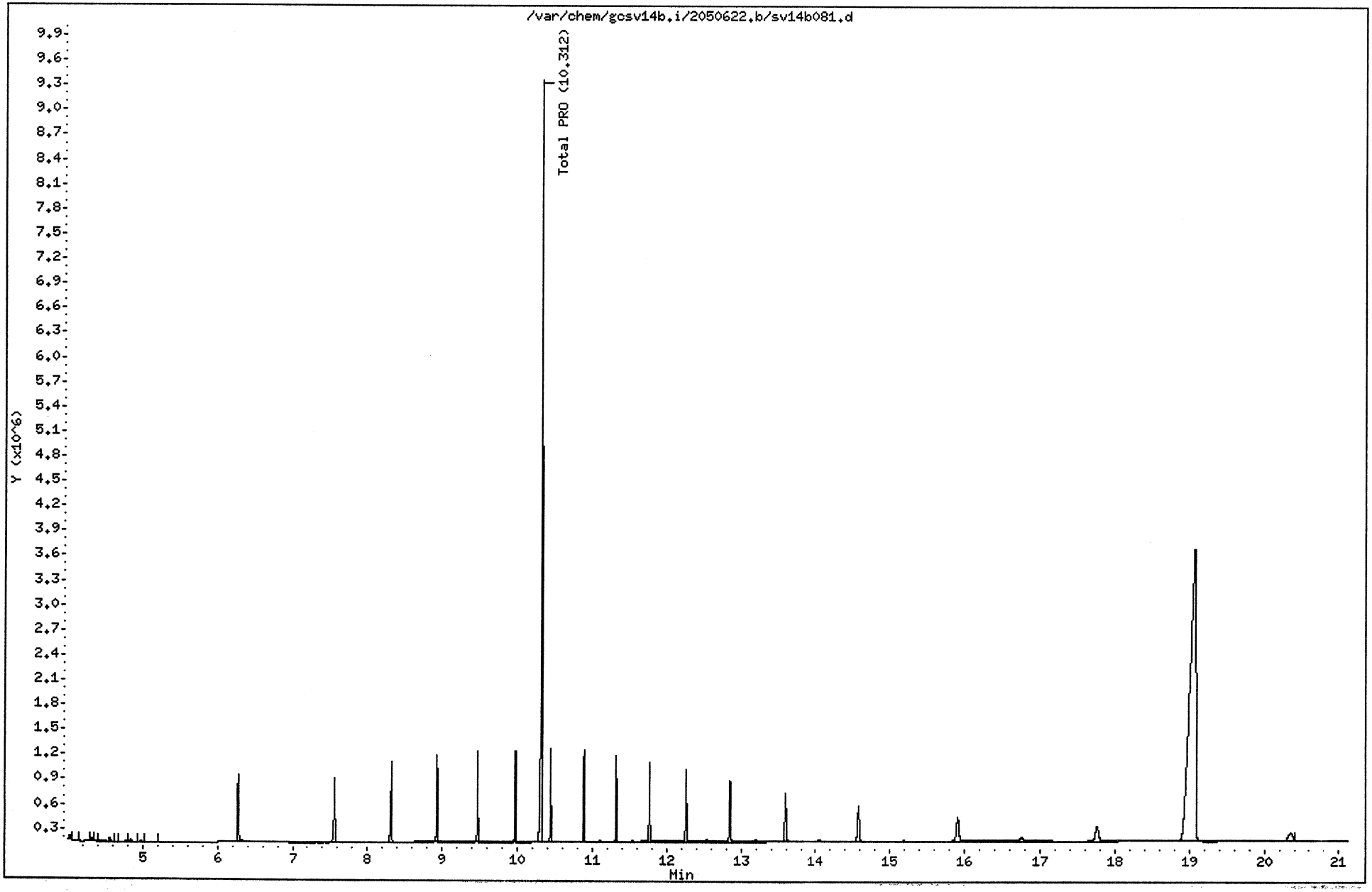
SS6180567

000486

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b081.d
Date : 23-JUN-2005 17:54
Client ID:
Sample Info: 1400*1 flpro 6
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b081s.d

Date : 23-JUN-2005 17:54

Client ID:

Instrument: gcsv14b.i

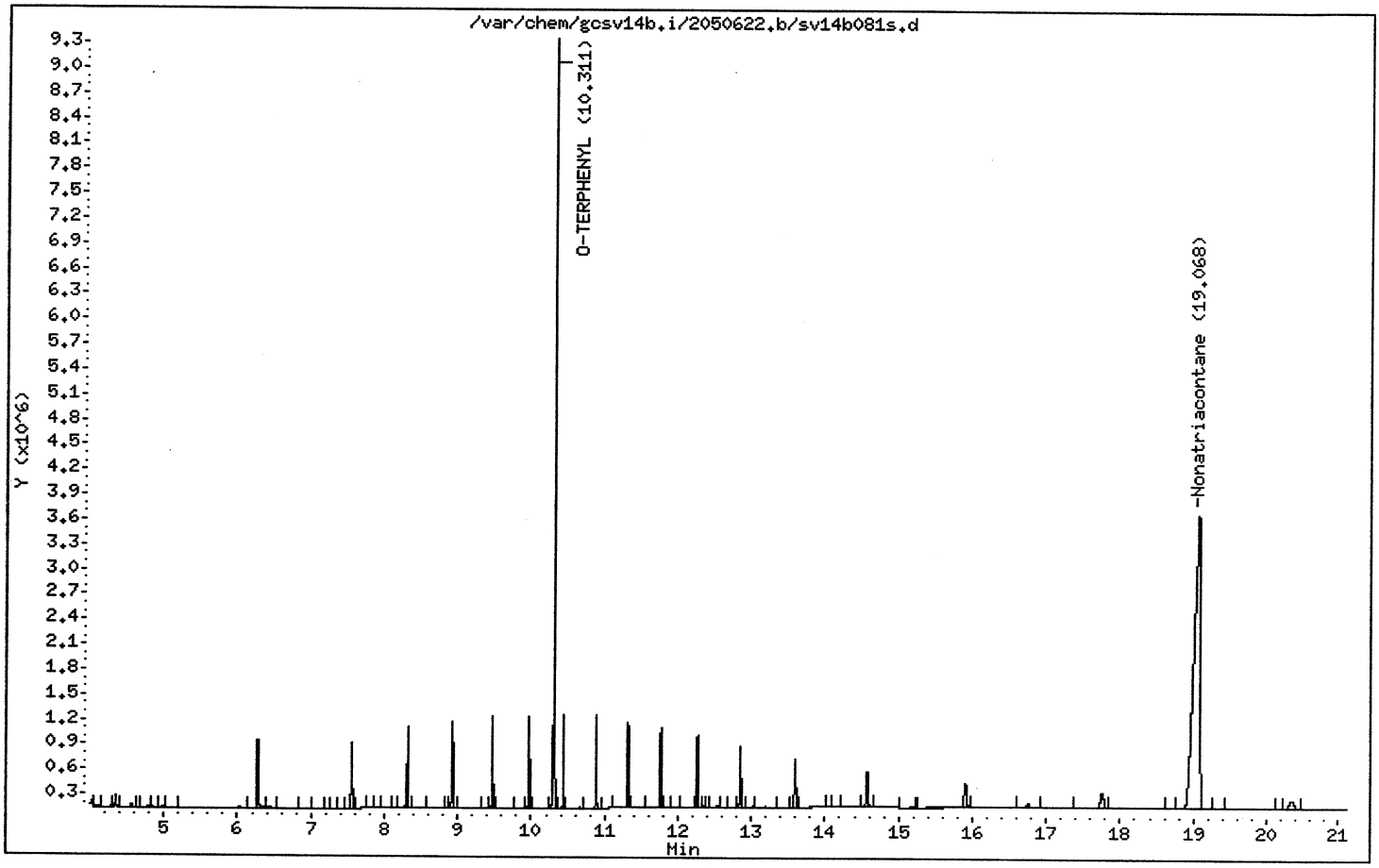
Sample Info: 1400x1 flpro 6

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164
CONCENTRATION UNITS: ug/L

Sample ID: MB250993
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250993
Date Collected: Time:
Date Received:
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 1921
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B059S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	66.0	J	40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b059.d
Lab Smp Id: 250993
Inj Date : 22-JUN-2005 19:21
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250993*1 mb
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 22-Jun-2005 20:18 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 59
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.304	9.699	0.605	370547774	139.526	279.0527(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{370547774 - 283282367}{265575} \cdot \frac{2}{1000} \cdot 1000 = 66 ug/L$ <DL

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b059s.d
Lab Smp Id: 250993
Inj Date : 22-JUN-2005 19:21
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250993*1 mb
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 59
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.304	10.306	-0.002	119042919	39.7361	79.4721(M)
$ 18 Nonatriacontane	18.982	18.970	0.012	164239448	114.945	229.8897

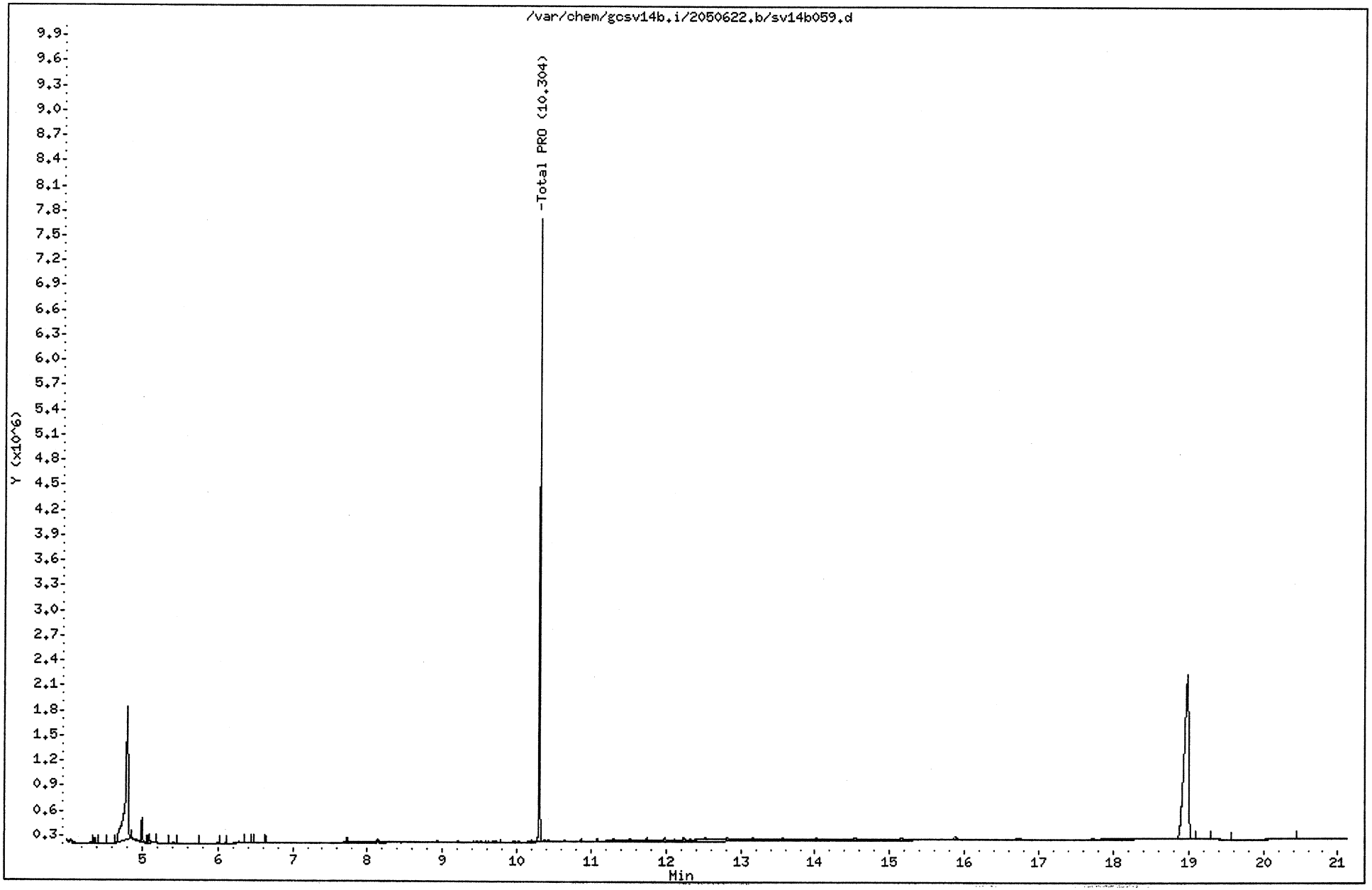
QC Flag Legend

M - Compound response manually integrated. 283282367

000491

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b059.d
Date : 22-JUN-2005 19:21
Client ID:
Sample Info: 250993x1 mb
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b059s.d

Date : 22-JUN-2005 19:21

Client ID:

Instrument: gcsv14b.i

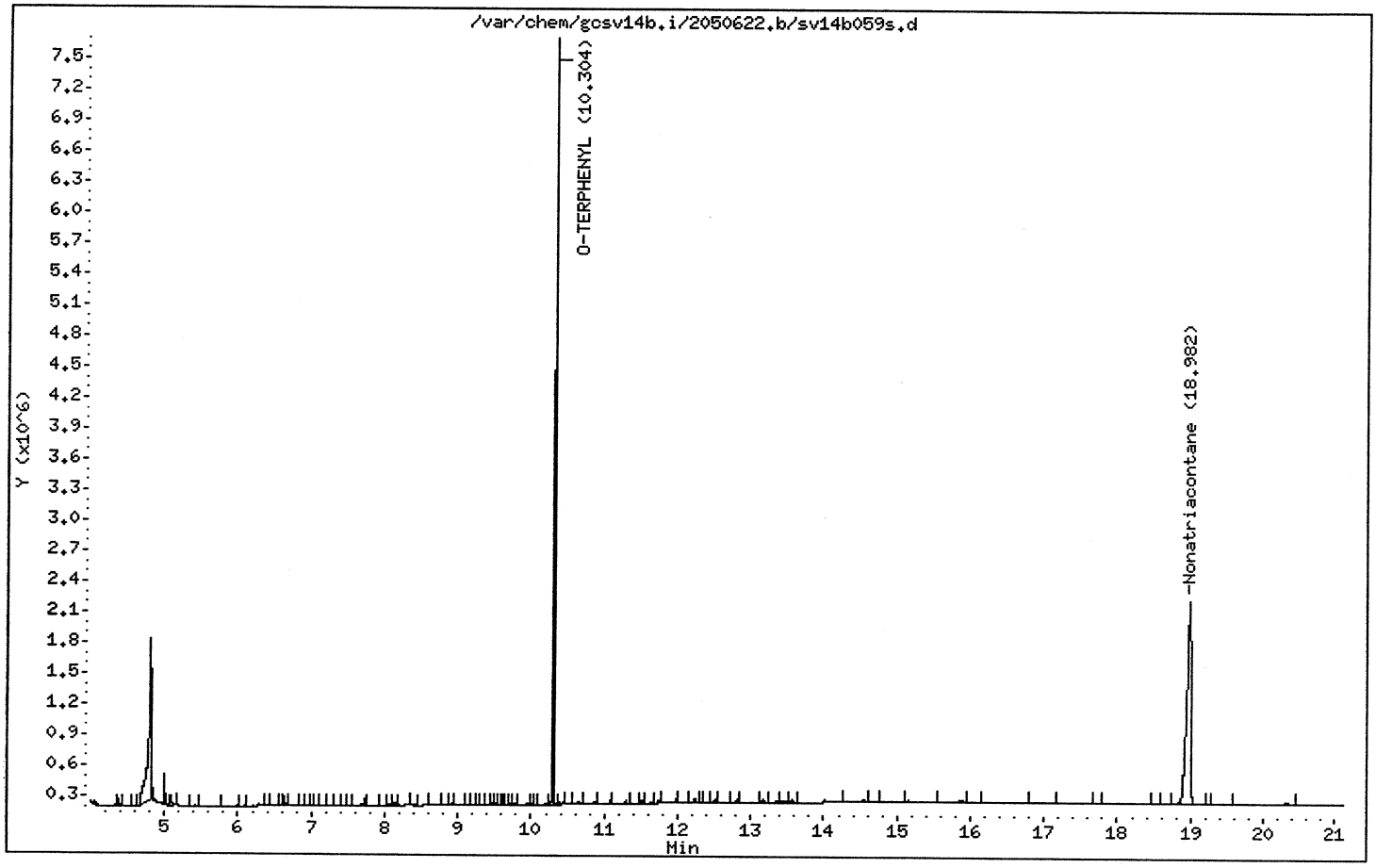
Sample Info: 250993*1 mb

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: LCS250994
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250994
Date Collected: Time:
Date Received:
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 1954
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B060S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1400		40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b060.d
Lab Smp Id: 250994
Inj Date : 22-JUN-2005 19:54
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250994*1 lcs
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.286	10.284	0.002	2348029497	884.129	1768.2581(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{2348029497 - 491159365}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 1398$ ug/L

$1398 / 1700 \cdot 100 = 82\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b060s.d
Lab Smp Id: 250994
Inj Date : 22-JUN-2005 19:54
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250994*1 lcs
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 60
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.285	10.306	-0.021	138729729	46.3074	92.6148
$ 18 Nonatriacontane	18.913	18.970	-0.057	352429636	246.652	493.3038

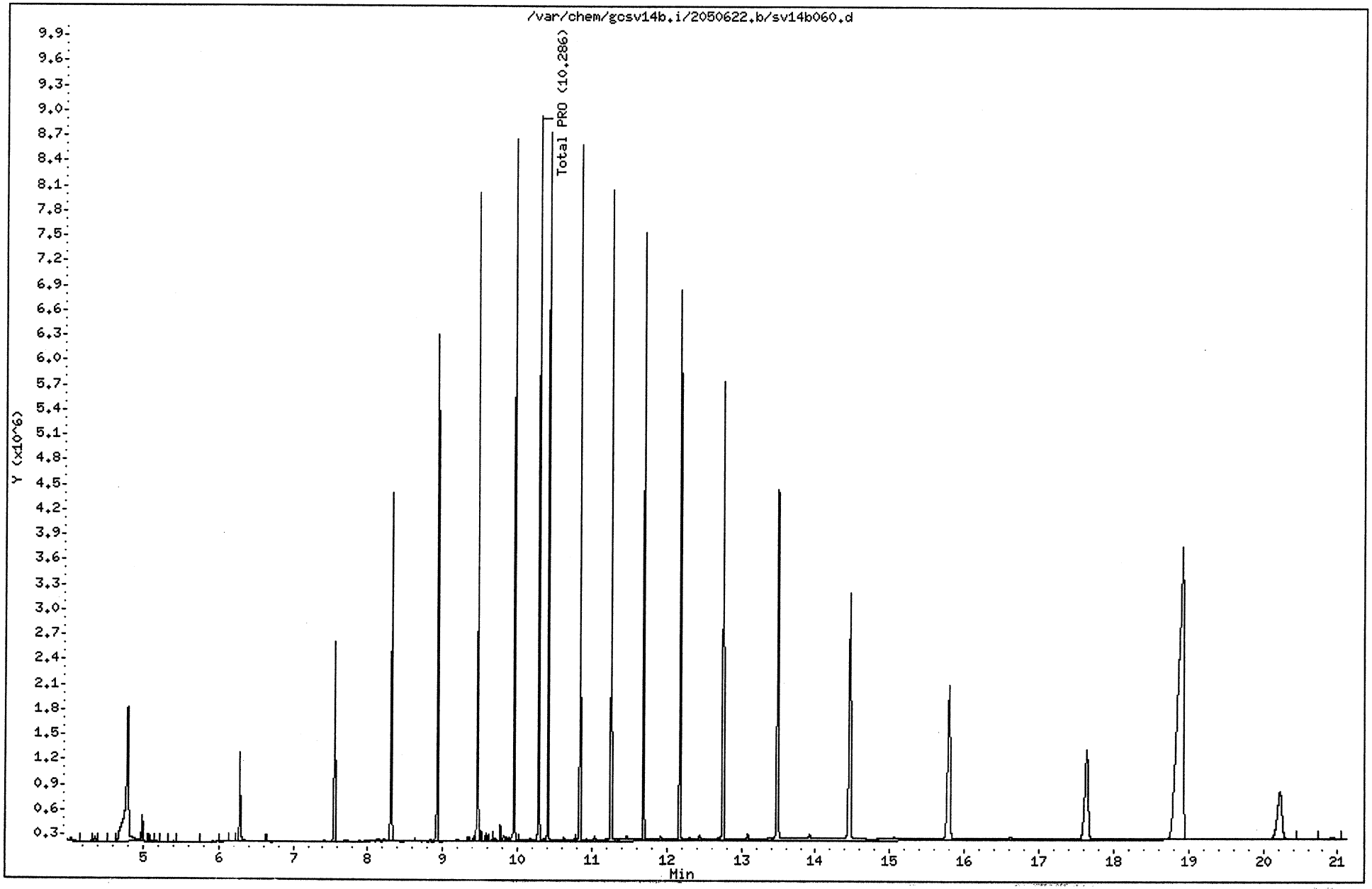
491159365

000496

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b060.d
Date : 22-JUN-2005 19:54
Client ID:
Sample Info: 250994*1 lcs
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b060s.d

Date : 22-JUN-2005 19:54

Client ID:

Instrument: gcsv14b.i

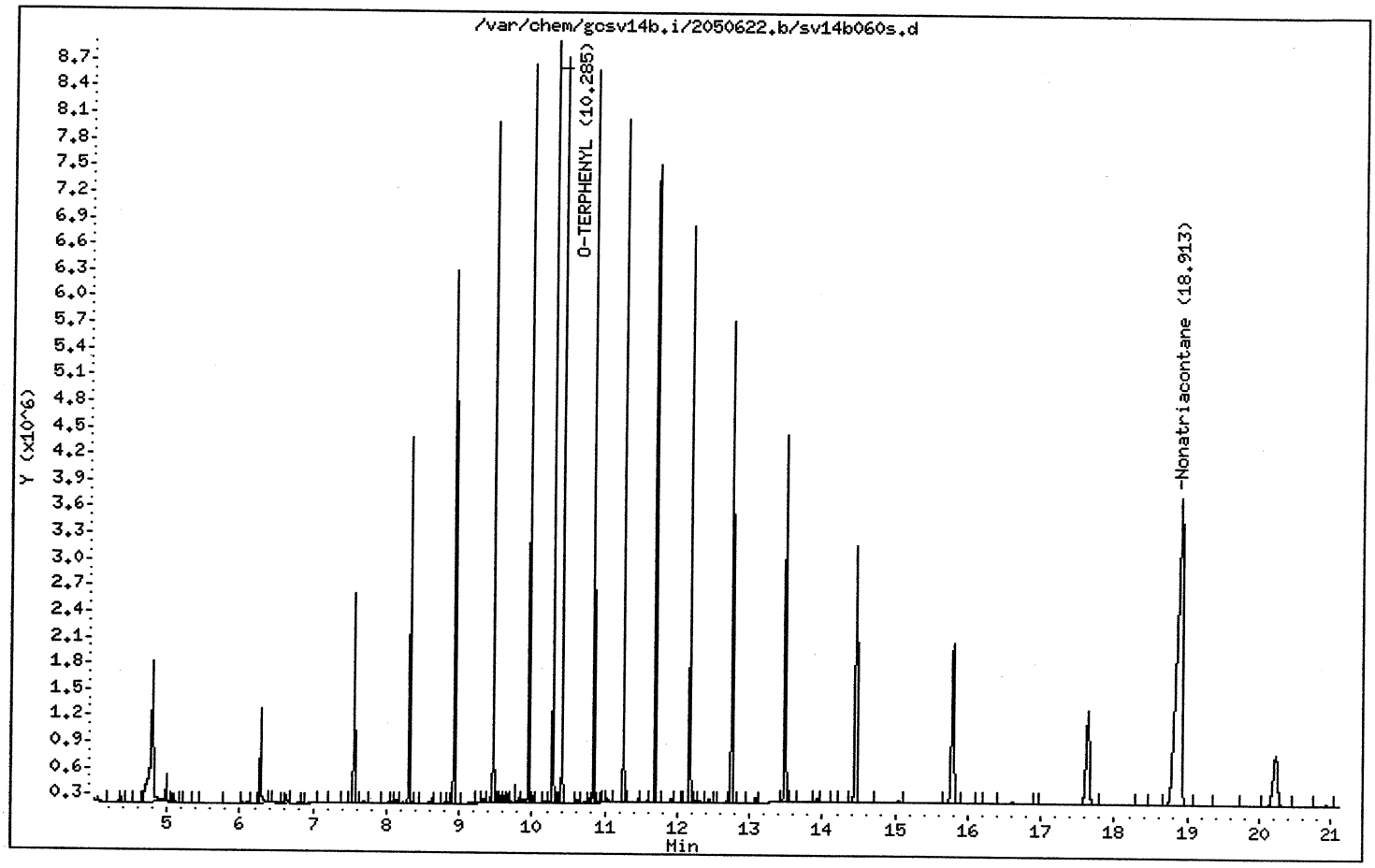
Sample Info: 250994x1 lcs

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: LCSD250995
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 250995
Date Collected: Time:
Date Received:
Date Extracted: 06/21/05
Date Analyzed: 06/22/05 Time: 2027
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B061S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1380		40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b061.d
Lab Smp Id: 250995
Inj Date : 22-JUN-2005 20:27
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250995*1 lcsd
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	9.957	10.284	-0.327	2330424184	877.500	1754.9999(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{2330424184 - 493961549}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 1383$ ug/L

$1383 / 1700 \cdot 100 = 81\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b061s.d
Lab Smp Id: 250995
Inj Date : 22-JUN-2005 20:27
Operator : tls Inst ID: gcsv14b.i
Smp Info : 250995*1 lcsd
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

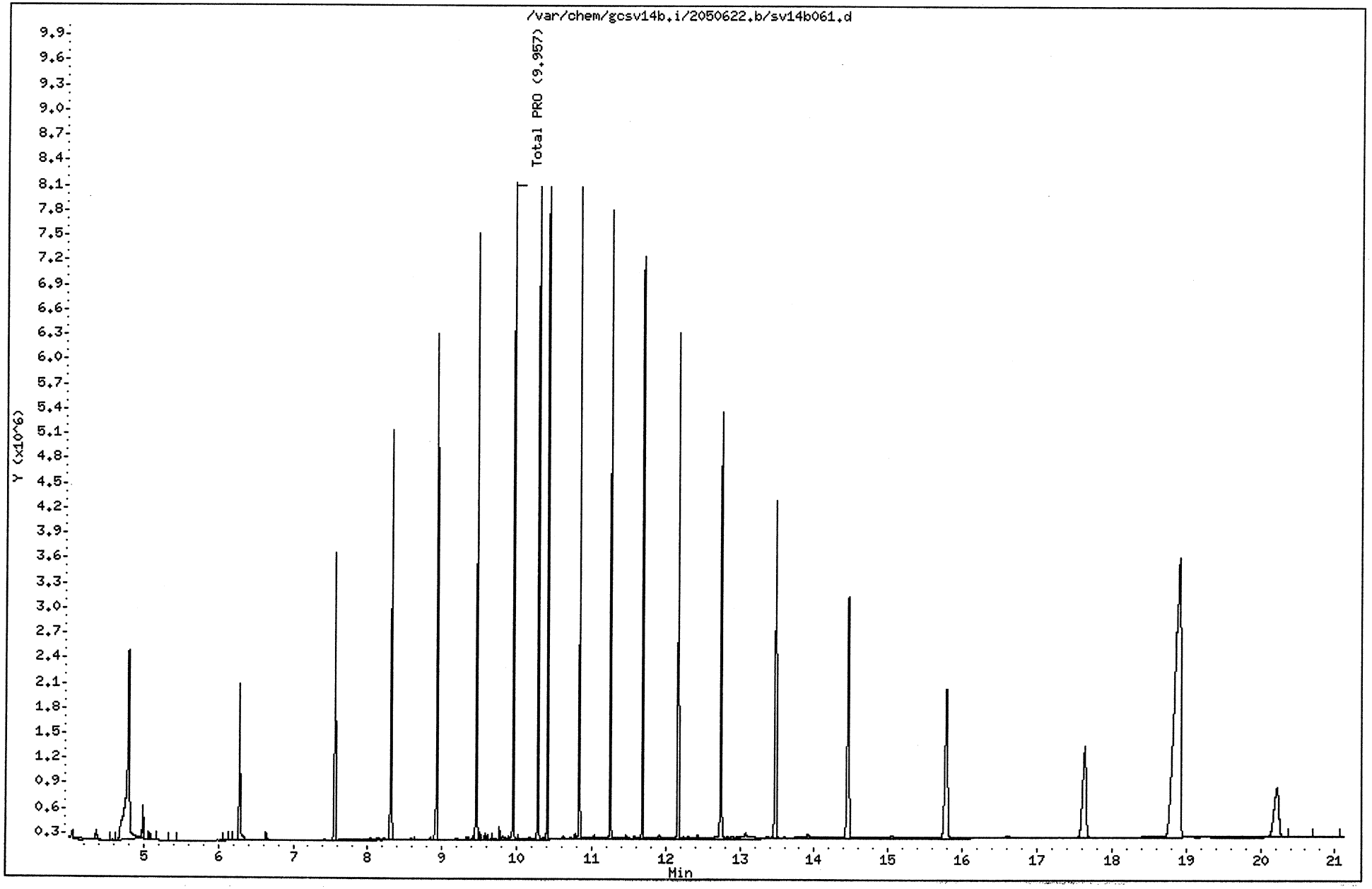
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.284	10.306	-0.022	124520380	41.5644	83.1288
$ 18 Nonatriacontane	18.908	18.970	-0.062	369441169	258.558	517.1152

49396/549

000501

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b061.d
Date : 22-JUN-2005 20:27
Client ID:
Sample Info: 250995x1 lcsd
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i
Operator: tls
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b061s.d

Date : 22-JUN-2005 20:27

Client ID:

Instrument: gcsv14b.i

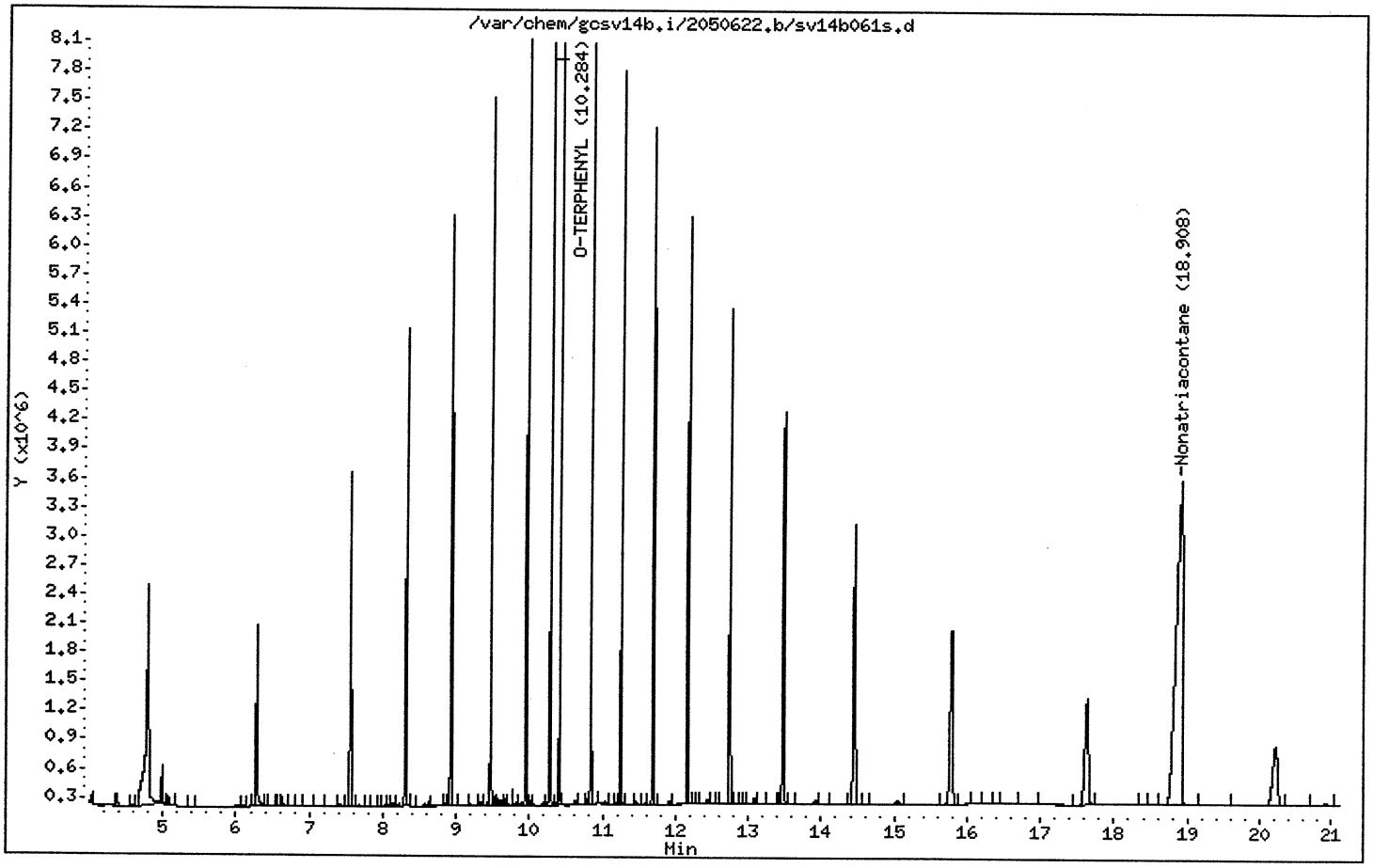
Sample Info: 250995x1 lcsd

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-MS-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170507
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 0031
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B068S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1660		40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b068.d
Lab Smp Id: 20506170507
Inj Date : 23-JUN-2005 00:31
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170507*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	9.957	10.284	-0.327	2723132657	1025.37	2050.7414(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2723132657 - 52485986 9}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 1655\ \mu g/L$$

$$1655/1700 \cdot 100 = 97\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b068s.d
Lab Smp Id: 20506170507
Inj Date : 23-JUN-2005 00:31
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170507*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 22-Jun-2005 18:49 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 68
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	10.284	10.306	-0.022	136946508	45.7122	91.4244
$ 18 Nonatriacontane	18.907	18.970	-0.063	387913361	271.486	542.9712

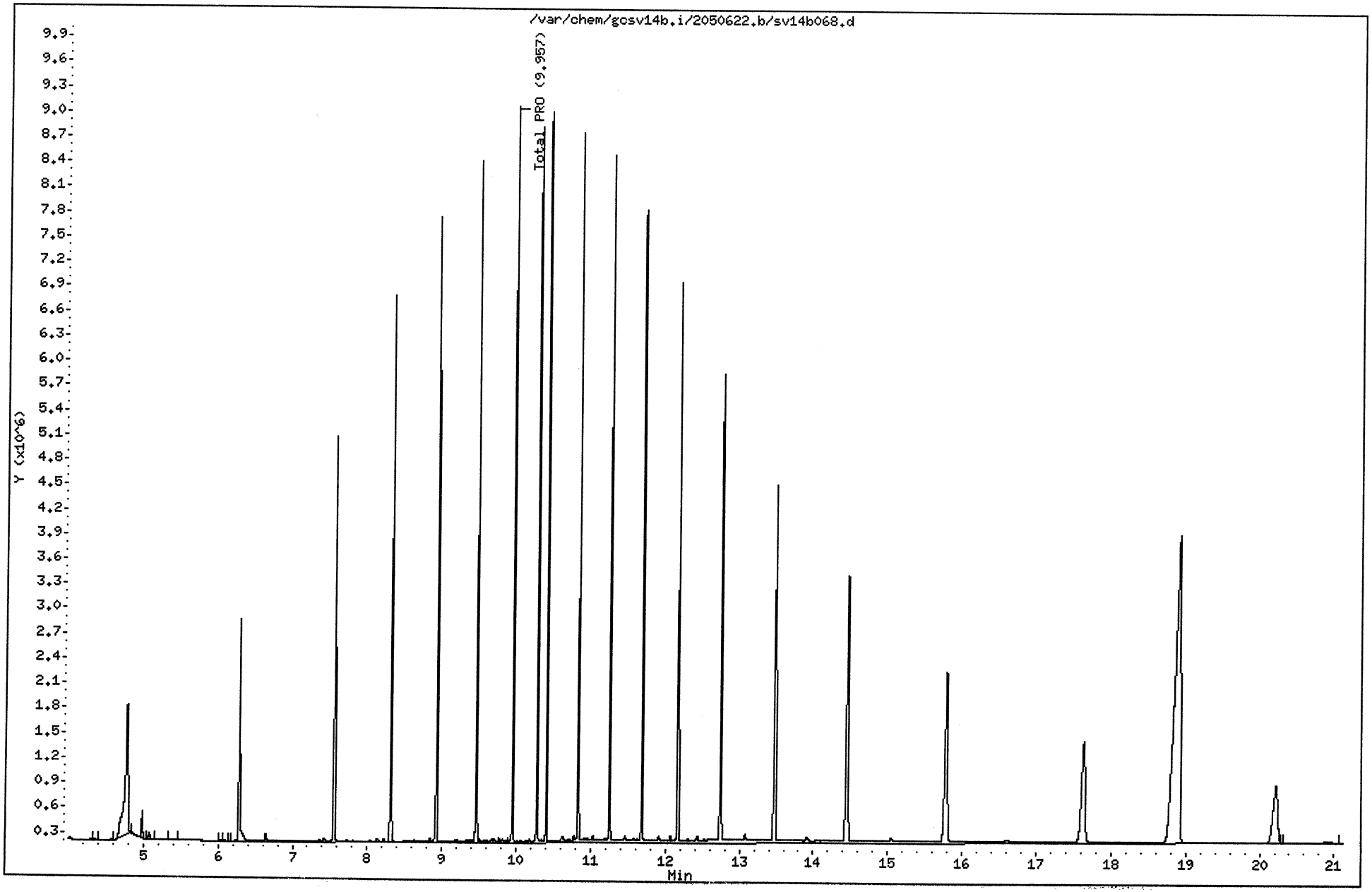
5 248 59869

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b068.d
Date : 23-JUN-2005 00:31
Client ID:
Sample Info: 20506170507*1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000506



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b068s.d

Date : 23-JUN-2005 00:31

Client ID:

Instrument: gcsv14b.i

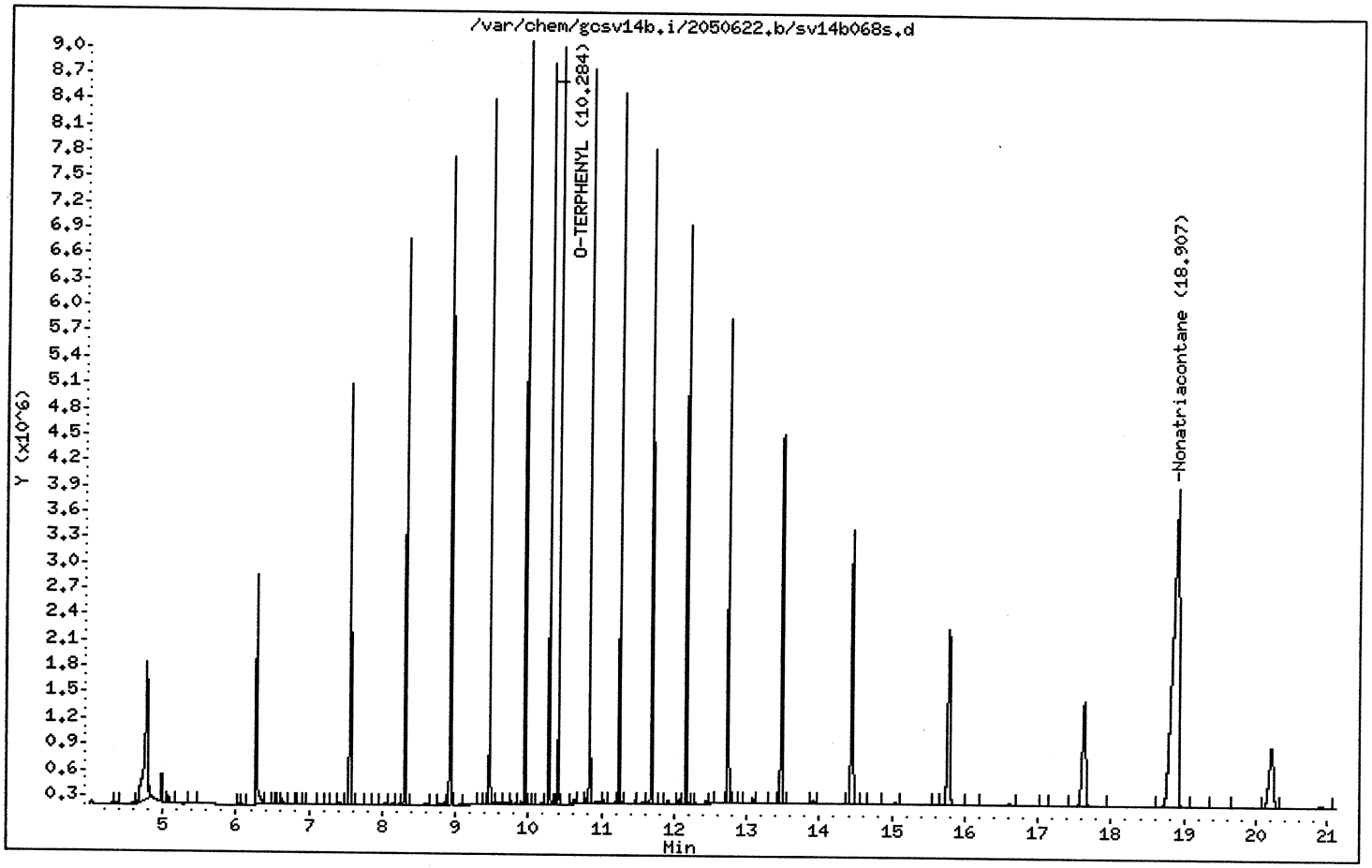
Sample Info: 20506170507*1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 2000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 293949 Analytical Batch: 294164

Sample ID: 86-MSD-Q2-05
Contract:
SAS No.: SDG No.: 205061705
Lab Sample ID: 20506170508
Date Collected: 06/16/05 Time: 1620
Date Received: 06/17/05
Date Extracted: 06/21/05
Date Analyzed: 06/23/05 Time: 1156
Dilution Factor: 1 Analyst: TLS
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050622/SV14B076S

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1490		40.7	100

FORM I ORG-1

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b076.d
Lab Smp Id: 20506170508
Inj Date : 23-JUN-2005 11:56
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170508*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flpro.m
Meth Date : 23-Jun-2005 09:10 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 15:16 Cal File: sv14b053.d
Als bottle: 76
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	9.966	10.284	-0.318	2436973278	917.620	1835.2400(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2436973278 - 453142106}{2655754} \cdot \frac{2}{1000} \cdot 1000 = 1494\ \mu g/L$$

$$1494 / 1700 \cdot 100 = 88\%$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv14b.i/2050622.b/sv14b076s.d
Lab Smp Id: 20506170508
Inj Date : 23-JUN-2005 11:56
Operator : tls Inst ID: gcsv14b.i
Smp Info : 20506170508*1
Misc Info : GCSV~48XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050622.b/flsur.m
Meth Date : 23-Jun-2005 11:14 tls Quant Type: ESTD
Cal Date : 22-JUN-2005 17:32 Cal File: sv14b057s.d
Als bottle: 76
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	10.297	10.308	-0.011	126868917	42.3483	84.6966
$ 18 Nonatriacontane	18.974	18.975	-0.001	326273189	228.346	456.6920

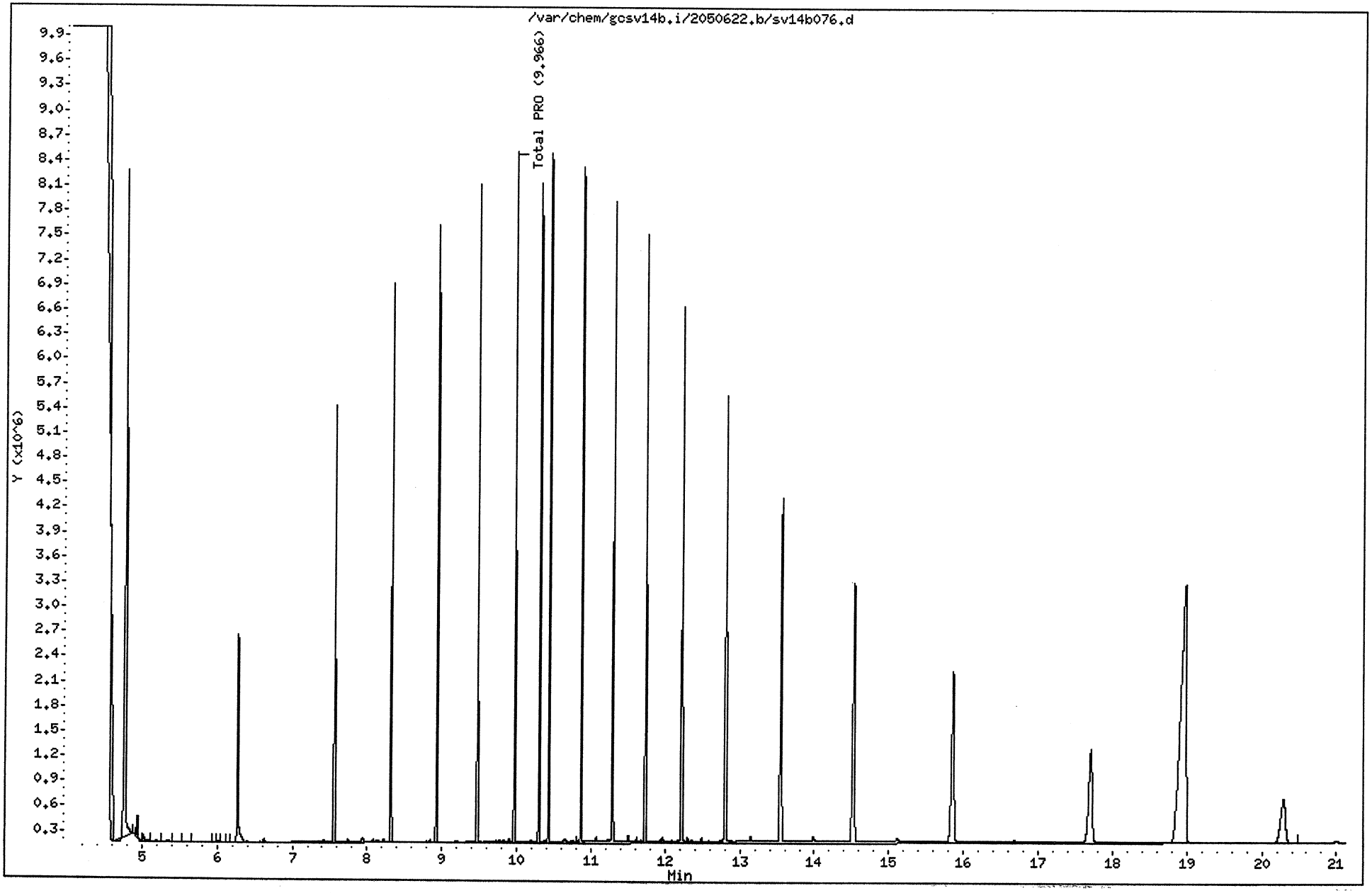
453142106

Data File: /var/chem/gcsv14b.i/2050622.b/sv14b076.d
Date : 23-JUN-2005 11:56
Client ID:
Sample Info: 20506170508*1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: tls
Column diameter: 0.53

000511



Data File: /var/chem/gcsv14b.i/2050622.b/sv14b076s.d

Date : 23-JUN-2005 11:56

Client ID:

Instrument: gcsv14b.i

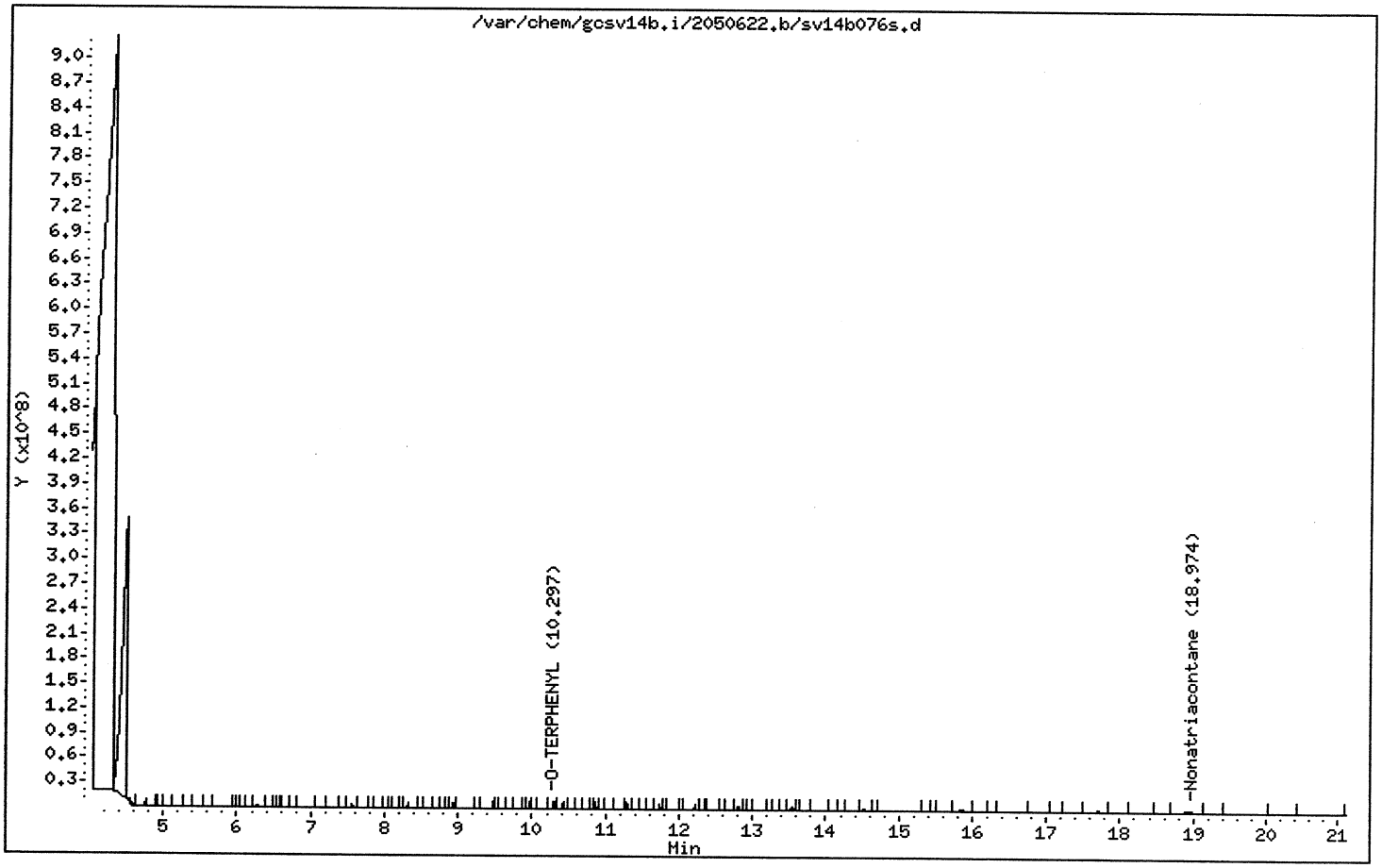
Sample Info: 20506170508x1

Volume Injected (uL): 1.0

Operator: tls

Column phase: DB-1

Column diameter: 0.53



FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	6/21/05 9:30	BATCH NO:	293949
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	COMMENTS	METHOD
1	QC ACCOUNT	MB for HBN 293949 [EXTO/7765]	250993	1000	2.0	7		
2	QC ACCOUNT	LCS for HBN 293949 [EXTO/7765]	250994	1000	2.0	7		
3	QC ACCOUNT	LCSD for HBN 293949 [EXTO/7765	250995	1000	2.0	7		SEPARATORY FUNNEL/3510 ✓
4	4380	86-CEF43-2N-Q2-05	20506170501	1000	2.0	<2		
5	4380	86-CEF43-6N-Q2-05	20506170502	900	2.0	<2	✓	
6	4380	86-CEF43-7N-Q2-05	20506170503	1000	2.0	<2		
7	4380	86-CEF43-9N-Q2-05	20506170504	1000	2.0	<2		SONICATOR/3550
8	4380	86-CEF43-33N-Q2-05	20506170505	1000	2.0	<2		
9	4380	86-CEF43-38N-Q2-05	20506170506	1000	2.0	<2		
10	4380	86-MS-Q2-05	20506170507	1000	2.0	<2		
11	4380	86-MSD-Q2-05	20506170508	1000	2.0	<2		SILICA GEL CLEANUP
12	4380	86-DUP-Q2-05	20506170509	1000	2.0	<2		
13	4380	86-EB-Q2-05	20506170510	1000	2.0	<2		
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No:
24								B15E54
25								
26								
27								Sodium Sulfate Lot No:
28								B05393

SKB 06/21/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME ✓ All Sample Volume used.

9-29-7 6/21/05

SURROGATE ID	~~9-29-8~~	FLPRO SPIKE ID	9-28-7			TECHNICIAN	DATE
VOLUME	100 ml	VOLUME	200 ul			Rebecca Davis	6-21-05
CONCENTRATION	100/100 ug/ml	CONCENTRATION	500 ug/ml				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	DWB					John Bailey	06/21/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 06/23/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050622.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050622.b
Column-Detector: DB-5ms

Sample ID	Standard ID	DataFile	Injection Time	DilFactor	Anal	Comments
1201		sv14b052.d	22-JUN-2005 14:41	1.000	tls	
1201	63-44-9	sv14b052s.d	22-JUN-2005 14:41	1.000	`tls	
1202		sv14b053.d	22-JUN-2005 15:16	1.000	tls	
1202	63-45-1	sv14b053s.d	22-JUN-2005 15:16	1.000	tls	
1203		sv14b054.d	22-JUN-2005 15:50	1.000	tls	
1203	63-45-2	sv14b054s.d	22-JUN-2005 15:50	1.000	tls	
1204		sv14b055.d	22-JUN-2005 16:24	1.000	tls	
1204	63-45-3	sv14b055s.d	22-JUN-2005 16:24	1.000	tls	
1205		sv14b056.d	22-JUN-2005 16:58	1.000	tls	
1205	63-45-4	sv14b056s.d	22-JUN-2005 16:58	1.000	tls	
1206		sv14b057.d	22-JUN-2005 17:32	1.000	tls	
1206	63-45-5	sv14b057s.d	22-JUN-2005 17:32	1.000	tls	
1600		sv14b058.d	22-JUN-2005 18:06	1.000	tls	
1600		sv14b058s.d	22-JUN-2005 18:06	1.000	tls	
250993		sv14b059.d	22-JUN-2005 19:21	1.000	tls	
250993		sv14b059s.d	22-JUN-2005 19:21	1.000	tls	
250994		sv14b060.d	22-JUN-2005 19:54	1.000	tls	
250994		sv14b060s.d	22-JUN-2005 19:54	1.000	tls	
250995		sv14b061.d	22-JUN-2005 20:27	1.000	tls	
250995		sv14b061s.d	22-JUN-2005 20:27	1.000	tls	
20506170501		sv14b062.d	22-JUN-2005 21:01	1.000	tls	
20506170501		sv14b062s.d	22-JUN-2005 21:01	1.000	tls	
20506170502		sv14b063.d	22-JUN-2005 21:36	1.000	tls	
20506170502		sv14b063s.d	22-JUN-2005 21:36	1.000	tls	
20506170503		sv14b064.d	22-JUN-2005 22:11	1.000	tls	
20506170503		sv14b064s.d	22-JUN-2005 22:11	1.000	tls	
20506170504		sv14b065.d	22-JUN-2005 22:47	1.000	tls	
20506170504		sv14b065s.d	22-JUN-2005 22:47	1.000	tls	
20506170505		sv14b066.d	22-JUN-2005 23:22	1.000	tls	
20506170505		sv14b066s.d	22-JUN-2005 23:22	1.000	tls	
20506170506		sv14b067.d	22-JUN-2005 23:56	1.000	tls	
20506170506		sv14b067s.d	22-JUN-2005 23:56	1.000	tls	
20506170507		sv14b068.d	23-JUN-2005 00:31	1.000	tls	
20506170507		sv14b068s.d	23-JUN-2005 00:31	1.000	tls	
1400		sv14b069.d	23-JUN-2005 01:07	1.000	tls	
1400	63-45-1	sv14b069s.d	23-JUN-2005 01:07	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 06/23/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050622.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050622.b
Column-Detector: DB-5ms

Sample ID	Standard ID	DataFile	Injection Time	DilFactor	Anal	Comments
20506170508		sv14b070.d	23-JUN-2005 01:42	1.000	tls	
20506170508		sv14b070s.d	23-JUN-2005 01:42	1.000	tls	
20506170509		sv14b071.d	23-JUN-2005 02:18	1.000	tls	
20506170509		sv14b071s.d	23-JUN-2005 02:18	1.000	tls	
20506170510		sv14b072.d	23-JUN-2005 02:54	1.000	tls	
20506170510		sv14b072s.d	23-JUN-2005 02:54	1.000	tls	
1400		sv14b073.d	23-JUN-2005 03:30	1.000	tls	
1400		sv14b073s.d	23-JUN-2005 03:30	1.000	tls	
1400		sv14b074.d	23-JUN-2005 10:46	1.000	tls	
1400	63-45-1	sv14b074s.d	23-JUN-2005 10:46	1.000	tls	
20506170501		sv14b075.d	23-JUN-2005 11:22	2.000	tls	
20506170501		sv14b075s.d	23-JUN-2005 11:22	2.000	tls	
20506170508		sv14b076.d	23-JUN-2005 11:56	1.000	tls	
20506170508		sv14b076s.d	23-JUN-2005 11:56	1.000	tls	
20506170509		sv14b077.d	23-JUN-2005 12:30	1.000	tls	
20506170509		sv14b077s.d	23-JUN-2005 12:30	1.000	tls	
20506170510		sv14b078.d	23-JUN-2005 13:05	1.000	tls	
20506170510		sv14b078s.d	23-JUN-2005 13:05	1.000	tls	
20506170501		sv14b079.d	23-JUN-2005 15:28	5.000	tls	
20506170501		sv14b079s.d	23-JUN-2005 15:28	5.000	tls	
20506170509		sv14b080.d	23-JUN-2005 16:02	5.000	tls	
20506170509		sv14b080s.d	23-JUN-2005 16:02	5.000	tls	
1400		sv14b081.d	23-JUN-2005 17:54	1.000	tls	
1400	63-44-9	sv14b081s.d	23-JUN-2005 17:54	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 06/23/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050622.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050622.b
Column-Detector: DB-5ms

Sample ID	Standard ID	DataFile	Injection Time	DilFactor	Anal	Comments
20506170508		sv14b070.d	23-JUN-2005 01:42	1.000	tls	
20506170508		sv14b070s.d	23-JUN-2005 01:42	1.000	tls	
20506170509		sv14b071.d	23-JUN-2005 02:18	1.000	tls	
20506170509		sv14b071s.d	23-JUN-2005 02:18	1.000	tls	
20506170510		sv14b072.d	23-JUN-2005 02:54	1.000	tls	
20506170510		sv14b072s.d	23-JUN-2005 02:54	1.000	tls	
1400		sv14b073.d	23-JUN-2005 03:30	1.000	tls	
1400		sv14b073s.d	23-JUN-2005 03:30	1.000	tls	
1400		sv14b074.d	23-JUN-2005 10:46	1.000	tls	
1400	63-45-1	sv14b074s.d	23-JUN-2005 10:46	1.000	tls	
20506170501		sv14b075.d	23-JUN-2005 11:22	2.000	tls	
20506170501		sv14b075s.d	23-JUN-2005 11:22	2.000	tls	
20506170508		sv14b076.d	23-JUN-2005 11:56	1.000	tls	
20506170508		sv14b076s.d	23-JUN-2005 11:56	1.000	tls	
20506170509		sv14b077.d	23-JUN-2005 12:30	1.000	tls	
20506170509		sv14b077s.d	23-JUN-2005 12:30	1.000	tls	
20506170510		sv14b078.d	23-JUN-2005 13:05	1.000	tls	
20506170510		sv14b078s.d	23-JUN-2005 13:05	1.000	tls	
20506170501		sv14b079.d	23-JUN-2005 15:28	5.000	tls	
20506170501		sv14b079s.d	23-JUN-2005 15:28	5.000	tls	
20506170509		sv14b080.d	23-JUN-2005 16:02	5.000	tls	
20506170509		sv14b080s.d	23-JUN-2005 16:02	5.000	tls	
1400		sv14b081.d	23-JUN-2005 17:54	1.000	tls	
1400	63-44-9	sv14b081s.d	23-JUN-2005 17:54	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
FLPRO 50 CCV2	63-45-01	C-443-11 2000 ug/ml DRH-RSS 3000 ug/ml -3X 63-44-08 200 ug/ml	NSI Accust in house	C-443-11 4/2006 B3050147 12/2007 in House 7/21/05	25ul 100ul 25ul	1ml	50 300 PPM 50	DCM 045514	SST	6-21-05	7-31-05
FLPRO 150	63-45-02	↓	↓	↓	75ul	↓	150 300 50	↓	↓	↓	↓
FLPRO 250	63-45-03	↓	↓	↓	125ul	↓	250 300 50	↓	↓	↓	↓
FLPRO 350	63-45-04	↓	↓	↓	175ul	↓	350 300 50	↓	↓	↓	↓
FLPRO 500	63-45-05	↓	↓	↓	250ul	↓	500 300 50	↓	↓	↓	↓
FLPRO ICV	63-45-06	DRH FTRP11 500 ug/ml	Accust	B3110221 12/13/07	100ul	1ml	50PPM	DCM 045514	SST	6-21-05	12/20/05
FLPRO CCC 50	63-45-07	C-443-11 DRH-RSS 63-44-08 ~~07-20-10 200 ug/ml~~	NSI Accust inhouse	C-443-11 4/2006 B3050147 12/2007 inhouse 7/21-05	25uL 100uL 25ul	1mL	50 300 50	Dcm 045514	TCS	6-23-05	12/20/05
TPHO V	63-45-08	waste motor oil 50,000 ug/ml O-Terp 10,000 ug/ml	NSI	LST-185-02 Exp 03/06 134114-02-06 Exp 05/07	1ml 100 ul	10ml	5000 100ppm	DCM 045514	HJL	6-23-05	12-22-05
Glycol mix	63-45-09	~~In house~~ HJL 6-23-05 Ethylene Glycol 1,2 Propanediol Glycol 10,000 ug/ml	In house	63-44-06 63-44-07 Exp 12/20/05	100 ul 100 ul	10 ml	100ppm	DI H2O	HJL	6-23-05	12-20-05
Glycol ICV	63-45-10	Ethylene Glycol 1,2 Propanediol Glycol 10,000 ug/ml	In house	63-44-06 63-44-07 Exp 12/20/05	50 ul 50 ul	10 ml	50ppm	DI H2O	HJL	6-23-05	12-20-05

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
Methanol ~~ICU~~	63-44-01	Neat	Mallinckrodt	V0-79	VOIDED 6-13-05 TLS						
					~~0.1gm~~	~~0.1gm~~	~~100mL~~	~~1,000 ppm~~	~~DiH20~~	~~TLS~~	
methanol ICU	63-44-01	Neat	Mallinckrodt methal Alcohol	V0-79	0.1g m	100mL	1,000 ppm	DiH20	TLS	6-13-05	12-13-05
1003	63-44-02	Q1084C 10,000ug/mL	NSI	041103-08 exp 4-06	1mL	25mL	400ppm	CS2 024590	TLS	6-17-05	12-12-05
1501	63-44-03	Q1084B 10,000ug/mL	NSI	041103-08 4-06	1mL	25mL	400ppm	CS2 024590	TLS	6-17-05	12-17-05
vinyl Chloride	63-44-04	m-502-56 200ug/mL	Accustandard	B 3090091 Exp April 1, 08	1 mL	1mL	200 ug/mL	None used	TLS	6-17-05	12-17-05
8081 V	~~SJ 6-20-05 63-44-05~~ 63-44-05	Pest Mix AB 8/16 ug/mL Pest Sur 2ug/mL	Restek in house	A034838 2/08 63-42-3 11/16/05	625uL 2.5mL	50mL	100/200 ug/L	Hexane 044711	SSJ	6-20-05	11-16-05
Ethylene glycol	63-44-06	Neat	Aldrich	JS 03057PR	.1g	10mL	10,000ppm	DI H2O	HJL	6/21/05	12/20/05
1,2 Propanediol glycol	63-44-07	Neat	Aldrich	39, 803-9	.1g	10mL	10,000ppm	DI H2O	HJL	6/21/05	12/20/05
O-Terph Working Std	63-44-08	1341H-02-05 10000ug/mL	NSI	1341H-02-05 8/05	200uL	1mL	2000ug/mL	DCM 045514	SJT	6-21-05	7/31/05
FLPRO 6 -CCU1	63-44-09	C443-11 2000ug/mL ~~BRH-FLSS-3X 3000ug/mL~~ 63-44-08 ~~63-37~~ 2000ug/mL	NSI Accust in house	C-443-11 4/2006 B3050147 12/2007 in house 7/31/05	3uL 100uL 25uL	1mL	6 300 ppm 60	DCM 045514	SJT	6-21-05	7/31/05

000518

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

SOW No.:

EPA Sample No	*Lab Sample ID*
86-CEF43-2N-Q2-05	20506170501
86-CEF43-6N-Q2-05	20506170502
86-CEF43-7N-Q2-05	20506170503
86-CEF43-9N-Q2-05	20506170504
86-CEF43-33N-Q2-05	20506170505
86-CEF43-38N-Q2-05	20506170506
86-MS-Q2-05	20506170507
86-MSD-Q2-05	20506170508
86-DUP-Q2-05	20506170509
86-EB-Q2-05	20506170510

Were ICP interelement corrections applied ? Yes / No YES

Were ICP background corrections applied ? Yes / No YES

If yes-were raw data generated before application of background corrections ? Yes / No NO

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-2N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170501
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1050

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-6N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170502
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1145

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.017	mg/L		0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-7N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170503
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1320

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-9N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170504
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1425

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-33N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170505
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1620

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-CEF43-38N-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170506
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1525

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-MS-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170507
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1620

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.52	mg/L		0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-MSD-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170508
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1620

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.52	mg/L		0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-DUP-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170509
Date Received: 06/17/05
Time: 1020
Date Collected:
Time:

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 86-EB-Q2-05
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205061705
Level: (low / med)
% Solids:
Lab Sample ID: 20506170510
Date Received: 06/17/05
Time: 1020
Date Collected: 06/16/05
Time: 1650

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Lead	0.015	mg/L	U	0.0015	0.015	SW-846 6010B	P

FORM I - IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-2-1 CPI/EXAXOL
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 1714

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.76	98	mg/L	SW-846 6010B	P
Antimony	1.00	0.950	95	mg/L	SW-846 6010B	P
Arsenic	1.00	0.950	95	mg/L	SW-846 6010B	P
Barium	1.00	1.01	101	mg/L	SW-846 6010B	P
Beryllium	1.00	0.970	97	mg/L	SW-846 6010B	P
Boron	5.00	4.95	99	mg/L	SW-846 6010B	P
Cadmium	1.00	0.970	97	mg/L	SW-846 6010B	P
Calcium	10.0	9.98	100	mg/L	SW-846 6010B	P
Chromium	1.00	0.970	97	mg/L	SW-846 6010B	P
Cobalt	1.00	0.970	97	mg/L	SW-846 6010B	P
Copper	1.00	0.960	96	mg/L	SW-846 6010B	P
Iron	10.0	9.78	98	mg/L	SW-846 6010B	P
Lead	1.00	0.980	98	mg/L	SW-846 6010B	P
Lithium	1.00	1.16	116	mg/L	SW-846 6010B	P
Magnesium	10.0	9.96	100	mg/L	SW-846 6010B	P
Manganese	1.00	0.970	97	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.960	96	mg/L	SW-846 6010B	P
Nickel	1.00	0.980	98	mg/L	SW-846 6010B	P
Selenium	1.00	0.980	98	mg/L	SW-846 6010B	P
Silver	1.00	0.980	98	mg/L	SW-846 6010B	P
Strontium	1.00	0.870	87	mg/L	SW-846 6010B	P
Thallium	1.00	0.980	98	mg/L	SW-846 6010B	P
Tin	1.00	1.03	103	mg/L	SW-846 6010B	P
Titanium	1.00	0.950	95	mg/L	SW-846 6010B	P
Vanadium	1.00	0.970	97	mg/L	SW-846 6010B	P
Zinc	1.00	0.960	96	mg/L	SW-846 6010B	P

ICV CONTROL LIMITS EPA 6010B = 90-110 EPA 200.7 = 95-105

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-2-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 1746

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.180	88	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0820	137	mg/L	SW-846 6010B	P
Arsenic	0.0400	0.0570	143	mg/L	SW-846 6010B	P
Barium	0.0100	0.00970	97	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00470	95	mg/L	SW-846 6010B	P
Boron	0.500	0.500	100	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00610	121	mg/L	SW-846 6010B	P
Calcium	0.100	0.110	105	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0100	101	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.00940	94	mg/L	SW-846 6010B	P
Copper	0.0100	0.0100	104	mg/L	SW-846 6010B	P
Iron	0.100	0.0990	99	mg/L	SW-846 6010B	P
Lead	0.0150	0.0110	76	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0270	53	mg/L	SW-846 6010B	P
Magnesium	0.100	0.0960	96	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0150	101	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0490	99	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0390	96	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0330	82	mg/L	SW-846 6010B	P
Silver	0.0100	0.0100	102	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0390	79	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00690	69	mg/L	SW-846 6010B	P
Tin	0.100	0.0950	95	mg/L	SW-846 6010B	P
Titanium	0.100	0.0980	98	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0190	96	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0200	98	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 1809

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.81	96	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	93	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	96	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.41	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	97	mg/L	SW-846 6010B	P
Calcium	5.00	4.88	98	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	97	mg/L	SW-846 6010B	P
Copper	0.500	0.480	95	mg/L	SW-846 6010B	P
Iron	5.00	4.89	98	mg/L	SW-846 6010B	P
Lead	0.500	0.490	97	mg/L	SW-846 6010B	P
Lithium	0.500	0.470	94	mg/L	SW-846 6010B	P
Magnesium	5.00	4.90	98	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	98	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silver	0.500	0.490	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	89	mg/L	SW-846 6010B	P
Thallium	0.500	0.470	95	mg/L	SW-846 6010B	P
Tin	0.500	0.480	97	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	97	mg/L	SW-846 6010B	P
Zirconium	0.500	0.470	95	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 1911

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.75	95	mg/L	SW-846 6010B	P
Antimony	0.500	0.460	92	mg/L	SW-846 6010B	P
Arsenic	0.500	0.470	94	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.37	95	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	97	mg/L	SW-846 6010B	P
Calcium	5.00	4.87	97	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	97	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	97	mg/L	SW-846 6010B	P
Copper	0.500	0.470	93	mg/L	SW-846 6010B	P
Iron	5.00	4.86	97	mg/L	SW-846 6010B	P
Lead	0.500	0.490	98	mg/L	SW-846 6010B	P
Lithium	0.500	0.410	82	mg/L	SW-846 6010B	P
Magnesium	5.00	4.87	97	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	96	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silver	0.500	0.480	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	89	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	97	mg/L	SW-846 6010B	P
Tin	0.500	0.480	97	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	97	mg/L	SW-846 6010B	P
Zirconium	0.500	0.470	94	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 2012

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.77	95	mg/L	SW-846 6010B	P
Antimony	0.500	0.460	92	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	96	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.40	96	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	98	mg/L	SW-846 6010B	P
Calcium	5.00	4.86	97	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	97	mg/L	SW-846 6010B	P
Copper	0.500	0.470	94	mg/L	SW-846 6010B	P
Iron	5.00	4.88	98	mg/L	SW-846 6010B	P
Lead	0.500	0.490	97	mg/L	SW-846 6010B	P
Lithium	0.500	0.400	79	mg/L	SW-846 6010B	P
Magnesium	5.00	4.89	98	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	98	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silver	0.500	0.480	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	90	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	99	mg/L	SW-846 6010B	P
Tin	0.500	0.490	97	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	97	mg/L	SW-846 6010B	P
Zirconium	0.500	0.460	93	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 2113

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.73	95	mg/L	SW-846 6010B	P
Antimony	0.500	0.480	96	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	98	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.37	95	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	99	mg/L	SW-846 6010B	P
Calcium	5.00	4.82	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	97	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.470	93	mg/L	SW-846 6010B	P
Iron	5.00	4.85	97	mg/L	SW-846 6010B	P
Lead	0.500	0.490	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.380	76	mg/L	SW-846 6010B	P
Magnesium	5.00	4.87	97	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	96	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	97	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silver	0.500	0.480	96	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	89	mg/L	SW-846 6010B	P
Thallium	0.500	0.470	94	mg/L	SW-846 6010B	P
Tin	0.500	0.490	97	mg/L	SW-846 6010B	P
Vanadium	0.500	0.480	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.470	94	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2
ICAL ID: 1
Date Analyzed: 06/20/05
Time: 2216

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.63	93	mg/L	SW-846 6010B	P
Antimony	0.500	0.450	90	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	96	mg/L	SW-846 6010B	P
Barium	0.500	0.480	95	mg/L	SW-846 6010B	P
Beryllium	0.500	0.470	95	mg/L	SW-846 6010B	P
Boron	2.50	2.34	93	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	96	mg/L	SW-846 6010B	P
Calcium	5.00	4.71	94	mg/L	SW-846 6010B	P
Chromium	0.500	0.480	95	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.450	91	mg/L	SW-846 6010B	P
Iron	5.00	4.77	95	mg/L	SW-846 6010B	P
Lead	0.500	0.470	95	mg/L	SW-846 6010B	P
Lithium	0.500	0.310	62	mg/L	SW-846 6010B	P
Magnesium	5.00	4.78	96	mg/L	SW-846 6010B	P
Manganese	0.500	0.470	93	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	96	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	95	mg/L	SW-846 6010B	P
Selenium	0.500	0.460	92	mg/L	SW-846 6010B	P
Silver	0.500	0.470	94	mg/L	SW-846 6010B	P
Strontium	0.500	0.440	88	mg/L	SW-846 6010B	P
Thallium	0.500	0.450	90	mg/L	SW-846 6010B	P
Tin	0.500	0.470	94	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	95	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.450	91	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/20/05 Time: 2317

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.59	92	mg/L	SW-846 6010B	P
Antimony	0.500	0.460	92	mg/L	SW-846 6010B	P
Arsenic	0.500	0.480	96	mg/L	SW-846 6010B	P
Barium	0.500	0.480	95	mg/L	SW-846 6010B	P
Beryllium	0.500	0.470	94	mg/L	SW-846 6010B	P
Boron	2.50	2.32	93	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	95	mg/L	SW-846 6010B	P
Calcium	5.00	4.69	94	mg/L	SW-846 6010B	P
Chromium	0.500	0.470	95	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.450	91	mg/L	SW-846 6010B	P
Iron	5.00	4.75	95	mg/L	SW-846 6010B	P
Lead	0.500	0.480	96	mg/L	SW-846 6010B	P
Lithium	0.500	0.340	69	mg/L	SW-846 6010B	P
Magnesium	5.00	4.76	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.460	93	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	96	mg/L	SW-846 6010B	P
Nickel	0.500	0.470	95	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silver	0.500	0.470	94	mg/L	SW-846 6010B	P
Strontium	0.500	0.440	88	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Tin	0.500	0.470	94	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	94	mg/L	SW-846 6010B	P
Zinc	0.500	0.470	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.460	91	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2
ICAL ID: 1
Date Analyzed: 06/21/05
Time: 0019

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.52	90	mg/L	SW-846 6010B	P
Antimony	0.500	0.450	90	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	90	mg/L	SW-846 6010B	P
Barium	0.500	0.470	94	mg/L	SW-846 6010B	P
Beryllium	0.500	0.460	93	mg/L	SW-846 6010B	P
Boron	2.50	2.31	92	mg/L	SW-846 6010B	P
Cadmium	0.500	0.470	93	mg/L	SW-846 6010B	P
Calcium	5.00	4.61	92	mg/L	SW-846 6010B	P
Chromium	0.500	0.470	93	mg/L	SW-846 6010B	P
Cobalt	0.500	0.460	93	mg/L	SW-846 6010B	P
Copper	0.500	0.450	89	mg/L	SW-846 6010B	P
Iron	5.00	4.68	94	mg/L	SW-846 6010B	P
Lead	0.500	0.460	93	mg/L	SW-846 6010B	P
Lithium	0.500	0.360	72	mg/L	SW-846 6010B	P
Magnesium	5.00	4.69	94	mg/L	SW-846 6010B	P
Manganese	0.500	0.460	91	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.470	94	mg/L	SW-846 6010B	P
Nickel	0.500	0.470	93	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	96	mg/L	SW-846 6010B	P
Silver	0.500	0.460	93	mg/L	SW-846 6010B	P
Strontium	0.500	0.430	86	mg/L	SW-846 6010B	P
Thallium	0.500	0.460	93	mg/L	SW-846 6010B	P
Tin	0.500	0.460	91	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	93	mg/L	SW-846 6010B	P
Zinc	0.500	0.470	94	mg/L	SW-846 6010B	P
Zirconium	0.500	0.440	88	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205061705
Calibration Source: 146-1-3 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 1
Date Analyzed: 06/21/05 Time: 0044

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.39	88	mg/L	SW-846 6010B	P
Antimony	0.500	0.440	88	mg/L	SW-846 6010B	P
Arsenic	0.500	0.460	91	mg/L	SW-846 6010B	P
Barium	0.500	0.460	92	mg/L	SW-846 6010B	P
Beryllium	0.500	0.460	91	mg/L	SW-846 6010B	P
Boron	2.50	2.24	90	mg/L	SW-846 6010B	P
Cadmium	0.500	0.460	92	mg/L	SW-846 6010B	P
Calcium	5.00	4.52	90	mg/L	SW-846 6010B	P
Chromium	0.500	0.460	91	mg/L	SW-846 6010B	P
Cobalt	0.500	0.460	92	mg/L	SW-846 6010B	P
Copper	0.500	0.440	88	mg/L	SW-846 6010B	P
Iron	5.00	4.56	91	mg/L	SW-846 6010B	P
Lead	0.500	0.460	92	mg/L	SW-846 6010B	P
Lithium	0.500	0.310	63	mg/L	SW-846 6010B	P
Magnesium	5.00	4.57	91	mg/L	SW-846 6010B	P
Manganese	0.500	0.450	90	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.470	93	mg/L	SW-846 6010B	P
Nickel	0.500	0.460	91	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	95	mg/L	SW-846 6010B	P
Silver	0.500	0.450	90	mg/L	SW-846 6010B	P
Strontium	0.500	0.420	84	mg/L	SW-846 6010B	P
Thallium	0.500	0.460	92	mg/L	SW-846 6010B	P
Tin	0.500	0.450	91	mg/L	SW-846 6010B	P
Vanadium	0.500	0.450	91	mg/L	SW-846 6010B	P
Zinc	0.500	0.460	91	mg/L	SW-846 6010B	P
Zirconium	0.500	0.440	88	mg/L	SW-846 6010B	P

CCV CONTROL LIMITS EPA 6010B AND 200.7 = 90-110 EPA 7470/7471 AND 7XXX = 80-120

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 1741

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 1814

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 1916

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 2017

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 2118

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: 250683

ICAL ID: 1

Lab Sample DESC: MB250683

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 2200

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 2221

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/20/05 Time: 2323

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/21/05 Time: 0024

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

FORM III - IN

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205061705

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 293967 [ICP/3002]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 06/21/05 Time: 0049

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205061705

ICP ID Number: ICP2 ICS Source: 136-49-6 SPEX~

Concentration Units: mg/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	200	200	202	210	105			
Antimony	0	1.00		0.94	94			
Arsenic	0	1.00		0.91	91			
Barium	0	0.50		0.49	98			
Beryllium	0	0.50		0.49	98			
Boron	0	1.00		1.41	141			
Cadmium	0	1.00		1.01	101			
Calcium	200	200	190	198	99			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.47	94			
Copper	0	0.50		0.49	98			
Iron	80.0	80.0	76.8	79.6	100			
Lead	0	1.00		0.97	97			
Magnesium	200	200	202	210	105			
Manganese	0	0.50		0.49	98			
Molybdenum	0	1.00		1.00	100			
Nickel	0	1.00		0.95	95			
Selenium	0	1.00		0.94	94			
Silver	0	1.00		1.03	103			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.50		0.49	98			
Zinc	0	1.00		0.97	97			

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 86-MS-Q2-05

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205061705

Level: (low / med)

Lab Sample ID: 20506170507

Orig Lab Sample ID 20506170505

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Lead	75	125	0.52		0	U	0.50	104		mg/L	SW-846 6010B	P

FORM V (PART 1) - IN

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 86-MSD-Q2-05

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205061705

Level: (low / med)

Lab Sample ID: 20506170508

Orig Lab Sample ID 20506170505

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Lead	75	125	0.52		0	U	0.50	104		mg/L	SW-846 6010B	P

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: (soil / water) Water

Level: (low / med)

Orig Lab Sample ID 20506170505

Sample ID: 86-CEF43-33N-Q2-05PDS

Contract:

SAS No.: SDG No.: 205061705

Lab Sample ID: 251079

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Lead	75	125	0.48		0	U	0.50	96		mg/L	SW-846 6010B	P

FORM V (PART 2) - IN

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Lab Code: LA024

Matrix: (soil/water) Water

Orig Lab Sample ID: 20506170505

Sample ID: 86-MS/MSD-Q2-05

SDG No.: 205061705

Lab Sample ID: 20506170507 / 20506170508

Analyte	LL - UL	Spiked Sample	C	Spiked Duplicate	C	RPD	Q	Units	Method	Type
Lead	0 - 20	0.52		0.52		0.0		mg/L	SW-846 6010B	P

FORM VI - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS250684

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205061705

Lab Sample ID: 250684

LCS Source: 334-40-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Lead	0.50	0.51	101	80	120	mg/L	SW-846 6010B	P

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 86-CEF43-33N-Q2-05SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205061705

Level: (low / med)

Org Lab Sample ID: 20506170505

Lab Sample ID: 251078

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Lead			0	U	0	U			mg/L	SW-846 6010B	P

FORM IX - IN

ICP LINEAR RANGES

Lab Name: GCAL

Lab Code: LA024

Study Date: 01/07/05

Sample ID:

SDG No.: 205061705

Instrument ID: ICP2

Analyte	*Concentration*	*Units*	*Type*
Aluminum	3000	mg/L	P
Antimony	50	mg/L	P
Arsenic	25	mg/L	P
Barium	25	mg/L	P
Beryllium	5	mg/L	P
Boron	50	mg/L	P
Cadmium	30	mg/L	P
Calcium	800	mg/L	P
Chromium	150	mg/L	P
Cobalt	150	mg/L	P
Copper	300	mg/L	P
Iron	600	mg/L	P
Lead	500	mg/L	P
Lithium	20	mg/L	P
Magnesium	3000	mg/L	P
Manganese	100	mg/L	P
Molybdenum	100	mg/L	P
Nickel	100	mg/L	P
Selenium	5	mg/L	P
Silver	10	mg/L	P
Thallium	20	mg/L	P
Tin	100	mg/L	P
Titanium	100	mg/L	P
Vanadium	100	mg/L	P
Zinc	25	mg/L	P
Zirconium	20	mg/L	P

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 205061705

Method: 3010A

Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
86-CEF43-2N-Q2-05	06/18/05			50	mL
86-CEF43-33N-Q2-05	06/18/05			50	mL
86-CEF43-38N-Q2-05	06/18/05			50	mL
86-CEF43-6N-Q2-05	06/18/05			50	mL
86-CEF43-7N-Q2-05	06/18/05			50	mL
86-CEF43-9N-Q2-05	06/18/05			50	mL
86-DUP-Q2-05	06/18/05			50	mL
86-EB-Q2-05	06/18/05			50	mL
86-MS-Q2-05	06/18/05			50	mL
86-MSD-Q2-05	06/18/05			50	mL
LCS250684	06/18/05			50	mL
MB250683	06/18/05			50	mL

ANALYSIS RUN LOG

Lab Name: GCAL
Contract:
Start Date: 06/20/05

Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
End Date: 06/21/05

Instrument ID Number: ICP2
Method: SW-846 6010B
Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Cn
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0003																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	0008																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0013																															
CCV	*	1	0019													X																		
CCB	*	1	0024													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0029																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0034																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0039																															
CCV	*	1	0044													X																		
CCB	*	1	0049													X																		
ICV	*	1	1714													X																		
ICB	*	1	1741													X																		
CRDL	*	1	1746													X																		
ICSA	*	1	1757													X																		
ICSAB	*	1	1803													X																		
CCV	*	1	1809													X																		
CCB	*	1	1814													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1819																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1824																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1829																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1835																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1840																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1845																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1850																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1855																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		40	1900																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1906																															

FORM XIV - IN

000559

ANALYSIS RUN LOG

Lab Name: GCAL
Contract:
Start Date: 06/20/05
Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
End Date: 06/21/05
Instrument ID Number: ICP2
Method: SW-846 6010B
Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Cn
				Analyte Symbols																														
CCV	*	1	1911													X																		
CCB	*	1	1916													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1921																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1931																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1936																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1941																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1946																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1951																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1956																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2002																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2007																															
CCV	*	1	2012													X																		
CCB	*	1	2017													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2023																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2028																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2033																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2038																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2043																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2048																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2053																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2058																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2103																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2108																															
CCV	*	1	2113													X																		
CCB	*	1	2118													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2123																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2129																															

FORM XIV - IN

000560

ANALYSIS RUN LOG

Lab Name: GCAL
Contract:
Start Date: 06/20/05

Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
End Date: 06/21/05

Instrument ID Number: ICP2
Method: SW-846 6010B
Method Type: P

Sample No.	PF	D/F	Time	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Cn
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2134																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2139																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2144																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2149																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2155																															
MB250683	*	1	2200													X																		
LCS250684	*	1	2206													X																		
86-CEF43-33N-Q2-05	*	1	2211													X																		
CCV	*	1	2216													X																		
CCB	*	1	2221													X																		
86-MS-Q2-05	*	1	2226													X																		
86-MSD-Q2-05	*	1	2231													X																		
86-CEF43-33N-Q2-05PDS	*	1	2237													X																		
86-CEF43-33N-Q2-05SD	*	5	2242													X																		
86-DUP-Q2-05	*	1	2247													X																		
86-CEF43-6N-Q2-05	*	1	2252													X																		
86-CEF43-7N-Q2-05	*	1	2257													X																		
86-CEF43-9N-Q2-05	*	1	2302													X																		
86-CEF43-38N-Q2-05	*	1	2307													X																		
86-CEF43-2N-Q2-05	*	1	2312													X																		
CCV	*	1	2317													X																		
CCB	*	1	2323													X																		
86-EB-Q2-05	*	1	2328													X																		
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2332																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2337																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2343																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2347																															

FORM XIV - IN

000561

ANALYSIS RUN LOG

Lab Name: GCAL
Contract:
Start Date: 06/20/05

Lab Code: LA024
Case No.:
SAS No.:
SDG No.: 205061705
End Date: 06/21/05

Instrument ID Number: ICP2
Method: SW-846 6010B
Method Type: P

Sample No.	PF	D/F	Time	Analyte Symbols																													
				Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Hg	Mo	Ni	K	Se	Si	Ag	Na	Sr	Tl	Sn	Ti	V	Zn	Cn
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2352																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2358																														

FORM XIV - IN

000562

ICP ANALYSIS

ICP 2

ANALYST: AJW
DATE: 6/20/2005
TIME: 17:04

AS#	SAMPLE ID		
1	CALIB.BLK.		
2	STANDARD 1	146-1-3	
✓	ICV-1600 F:Li,Sr	146-2-1	(2nd Source)
200.7 ✓	ICV2-1601	136-47-2	(2nd Source)
✓	ICB-1700		
✓	CRDL-2300 F:Mn,Tl	146-2-3	
~~4~~	~~CRDL2-2301~~	146-1-5	
✓	ICSA-2000	136-49-6	
✓	ICSAB-2100 F:B	136-49-7	
200.7 ✓	CCV-1800 F:Sr		DILUTION
✓	CCB-1900		
17	250996	MB HBN 293950 W	
18	250997	LCS HBN 293950 W	
19	---- 4183 ----	20506200401	
20	250998	20506200401 DUP	
21	250999	20506200401 MS	
22	251070	20506200401 PDS	
23	251069	20506200401 SD	5 X
24		20506200501	5 X
25		20506200501	40 X
26	---- 0056 ----	20506200901	
✓	CCV-1800 F:Li,Sr		
✓	CCB-1900		
27		20506200902	
28		LCS ZR-*	
29	250956	MB HBN 293942 W	
30	250957	LCS HBN 293942 W	
31	---- 4484 ----	^20506171436	
32	250959	^20506171436 MS	
33	251011	^20506171436 MSD	
34	251072	^20506171436 PDS	
35	251071	^20506171436 SD	5 X
36		^20506171432	
✓	CCV-1800 F:Li		
✓	CCB-1900		
37		^20506171433	
38		^20506171434	
39		^20506171435	
40		^20506171437	
41		^20506171438	
42		^20506171439	
43		^20506171440	
44		^20506171450	
45		^20506171451	
46		^20506171452	

AS#	SAMPLE ID		DILUTION
✓	CCV-1800 F:Sr,Li		
✓	CCB-1900 F:Li		
47		^20506171453	
48		^20506171454	
49		^20506171455	
50		^20506171456	
51		^20506171457	
52	---- 4107 ----	20506171001	
53	---- 4455 ----	×20506170824	
54	250683	MB HBN 293879 W	
55	250684	LCS HBN 293879 W	
56	---- 4380 ----	°20506170505	
✓	CCV-1800 F:Li,Sr		
✓	CCB-1900		
57		°20506170507 MS	
58		°20506170508 MSD	
59	251079	°20506170505 PDS	
60	251078	°20506170505 SD	5 X
61		°20506170509	
62		°20506170502	
63		°20506170503	
64		°20506170504	
65		°20506170506	
66		°20506170501	
✓	CCV-1800 F:Li,Sr		
✓	CCB-1900		
67		°20506170510	
68	250308	MB HBN 293817 W	
69	250309	LCS HBN 293817 W	
70	---- 2207 ----	20506162401	
71		20506162402 DUP	
72		20506162403 MS	
73		20506162404 MSD	
74	251081	20506162401 PDS	
75	251080	20506162401 SD	5 X
76		20506162405	
✓	CCV-1800 F:Cu,Li,Sr,Zr		
✓	CCB-1900		

ANALYST QC REV: AJW
SECONDARY REV: KRM

QC CONTROL LIMITS:
ICV (200.7) 95-105%
ICV (6010B) 90-110%
ICSAB 80-120%
CCV 90-110%

COMMENTS: 3002 293967
*Zr checked by reps for 200.7

QC: all acceptable qc noted with a checkmark; failures as indicated.

ICP 5
(Page 2)

ANALYST: AJW
DATE: 6/20/2005

AS#	SAMPLE ID	DILUTION
77	20506162406	
78	20506162407	
79	20506162408	
80		
81		
82		
83		
84		
85		
86		
	CCV-1800 F: Al, Sb, Cu, Li, Sr, Zr	
	CCB-1900	
87		
88		
89		
90		
91		
92		
93		
94		
95		
96		
7	CCV-1800	
1	CCB-1900	
97		
98		
99		
100		
101		
102		
103		
104		
105		
106		
7	CCV-1800	
1	CCB-1900	
107		
108		
109		
110		
111		
112		
113		
114		
115		
116		

AS#	SAMPLE ID	DILUTION
7	CCV-1800	
1	CCB-1900	
117		
118		
119		
120		
121		
122		
123		
124		
125		
126		
7	CCV-1800	
1	CCB-1900	
127		
128		
129		
130		
131		
132		
133		
134		
135		
136		
7	CCV-1800	
1	CCB-1900	
137		
138		
139		
140		
141		
142		
143		
144		
145		
146		

COMMENTS: 3002, 293967

Reprocessing Begun
Logged In Analyst: met
Technique: ICP Continuous

Results Data Set (original): 2050620 B
Results Library (original): C:\pe\met\Results\Results.mdb
Results Data Set (reprocessed): 3002
Results Library (reprocessed): C:\pe\met\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 5:04:12 PM
Data Type: Reprocessed on 6/21/2005 8:25:01 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium,7440-65-5A	1129417.5	14474.51	1.28%	100.00	%
Yttrium,7440-65-5R	2078314.9	26586.10	1.28%	100.00	%
Scandium	1661923.1	20373.72	1.23%	100.00	%
Ar 420.069	1220742.2	11020.79	0.90%	100.00	%
Aluminum,7429-90-5†	10223.0	219.46	2.15%	[0.00]	mg/L
Antimony,7440-36-0†	12.0	3.39	28.28%	[0.00]	mg/L
Arsenic,7440-38-2†	-7.6	6.13	80.49%	[0.00]	mg/L
Barium,7440-39-3†	-2.0	10.66	539.18%	[0.00]	mg/L
Beryllium,7440-41-7†	228974.8	4403.49	1.92%	[0.00]	mg/L
Boron,7440-42-8†	1381.5	91.60	6.63%	[0.00]	mg/L
Calcium,7440-70-2†	-345.4	168.23	48.71%	[0.00]	mg/L
Cadmium,7440-43-9†	122.4	9.32	7.61%	[0.00]	mg/L
Chromium,7440-47-3†	1384.3	83.44	6.03%	[0.00]	mg/L
Cobalt,7440-48-4†	8.1	2.03	25.20%	[0.00]	mg/L
Copper,7440-50-8†	-3665.3	95.44	2.60%	[0.00]	mg/L
Iron,7439-89-6†	-80.1	10.55	13.17%	[0.00]	mg/L
Lead,7439-92-1†	2.2	9.66	435.93%	[0.00]	mg/L
Lithium,7439-93-2†	300.6	93.09	30.97%	[0.00]	mg/L
Magnesium,7439-95-4†	188.9	68.33	36.16%	[0.00]	mg/L
Manganese,7439-96-5†	727.1	19.03	2.62%	[0.00]	mg/L
Molybdenum,7439-98-7†	-14.3	11.14	78.15%	[0.00]	mg/L
Nickel,7440-02-0†	21.2	6.97	32.90%	[0.00]	mg/L
Selenium,7782-49-2†	-81.5	6.14	7.53%	[0.00]	mg/L
Silver,7440-22-4†	1810.0	17.34	0.96%	[0.00]	mg/L
Strontium,7440-24-6†	1272.2	89.33	7.02%	[0.00]	mg/L
Thallium,7440-28-0†	-1.4	11.24	823.91%	[0.00]	mg/L
Tin,7440-31-5†	4.0	1.39	34.42%	[0.00]	mg/L
Titanium,7440-32-6†	-155.0	52.34	33.76%	[0.00]	mg/L
Vanadium,7440-62-2†	-1913.9	66.97	3.50%	[0.00]	mg/L
Zinc,7440-66-6†	-95.1	17.83	18.75%	[0.00]	mg/L
Zirconium,7440-67-7†	6226.1	173.31	2.78%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/20/2005 5:09:10 PM
Data Type: Reprocessed on 6/21/2005 8:25:22 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Yttrium,7440-65-5A	1160412.2	24484.14	2.11%	102.74	%
Yttrium,7440-65-5R	2139324.1	44804.19	2.09%	102.94	%
Scandium	1719933.3	36350.56	2.11%	103.49	%
Ar 420.069	1221427.7	6489.86	0.53%	100.06	%
Aluminum,7429-90-5†	89341.6	1156.13	1.29%	[10]	mg/L
Antimony,7440-36-0†	315.0	2.76	0.88%	[1]	mg/L

Arsenic,7440-38-2†	261.6	5.82	2.22%	[1] mg/L
Barium,7440-39-3†	20982.9	193.77	0.92%	[1] mg/L
Beryllium,7440-41-7†	9498065.8	173196.69	1.82%	[1] mg/L
Boron,7440-42-8†	319603.9	2018.68	0.63%	[5] mg/L
Calcium,7440-70-2†	641144.0	7585.45	1.18%	[10] mg/L
Cadmium,7440-43-9†	5795.2	96.11	1.66%	[1] mg/L
Chromium,7440-47-3†	117521.4	1469.30	1.25%	[1] mg/L
Cobalt,7440-48-4†	4913.0	86.22	1.75%	[1] mg/L
Copper,7440-50-8†	102278.2	1017.15	0.99%	[1] mg/L
Iron,7439-89-6†	75447.0	870.61	1.15%	[10] mg/L
Lead,7439-92-1†	1332.1	23.03	1.73%	[1] mg/L
Lithium,7439-93-2†	1376.7	24.30	1.77%	[1] mg/L
Magnesium,7439-95-4†	142624.3	1743.78	1.22%	[10] mg/L
Manganese,7439-96-5†	137805.6	1529.04	1.11%	[1] mg/L
Molybdenum,7439-98-7†	3088.3	42.74	1.38%	[1] mg/L
Nickel,7440-02-0†	12201.0	125.94	1.03%	[1] mg/L
Selenium,7782-49-2†	355.4	3.91	1.10%	[1] mg/L
Silver,7440-22-4†	198054.3	1869.09	0.94%	[1] mg/L
Strontium,7440-24-6†	59389.5	476.00	0.80%	[1] mg/L
Thallium,7440-28-0†	218.7	0.61	0.28%	[1] mg/L
Tin,7440-31-5†	565.7	7.12	1.26%	[1] mg/L
Titanium,7440-32-6†	353955.5	4510.99	1.27%	[1] mg/L
Vanadium,7440-62-2†	168042.1	1862.40	1.11%	[1] mg/L
Zinc,7440-66-6†	22713.8	276.39	1.22%	[1] mg/L
Zirconium,7440-67-7†	324857.8	4566.04	1.41%	[1] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Aluminum,7429-90-5	1	Lin, Calc Int	0.0	8934	0.00000	1.000000	
Antimony,7440-36-0	1	Lin, Calc Int	0.0	315.0	0.00000	1.000000	
Arsenic,7440-38-2	1	Lin, Calc Int	0.0	261.6	0.00000	1.000000	
Barium,7440-39-3	1	Lin, Calc Int	0.0	20980	0.00000	1.000000	
Beryllium,7440-41-7	1	Lin, Calc Int	0.0	9498000	0.00000	1.000000	
Boron,7440-42-8	1	Lin, Calc Int	0.0	63920	0.00000	1.000000	
Calcium,7440-70-2	1	Lin, Calc Int	-0.0	64110	0.00000	1.000000	
Cadmium,7440-43-9	1	Lin, Calc Int	0.0	5795	0.00000	1.000000	
Chromium,7440-47-3	1	Lin, Calc Int	0.0	117500	0.00000	1.000000	
Cobalt,7440-48-4	1	Lin, Calc Int	0.0	4913	0.00000	1.000000	
Copper,7440-50-8	1	Lin, Calc Int	0.0	102300	0.00000	1.000000	
Iron,7439-89-6	1	Lin, Calc Int	0.0	7545	0.00000	1.000000	
Lead,7439-92-1	1	Lin, Calc Int	0.0	1332	0.00000	1.000000	
Lithium,7439-93-2	1	Lin, Calc Int	0.0	1377	0.00000	1.000000	
Magnesium,7439-95-4	1	Lin, Calc Int	0.0	14260	0.00000	1.000000	
Manganese,7439-96-5	1	Lin, Calc Int	0.0	137800	0.00000	1.000000	
Molybdenum,7439-98-7	1	Lin, Calc Int	0.0	3088	0.00000	1.000000	
Nickel,7440-02-0	1	Lin, Calc Int	0.0	12200	0.00000	1.000000	
Selenium,7782-49-2	1	Lin, Calc Int	0.0	355.4	0.00000	1.000000	
Silver,7440-22-4	1	Lin, Calc Int	0.0	198100	0.00000	1.000000	
Strontium,7440-24-6	1	Lin, Calc Int	0.0	59390	0.00000	1.000000	
Thallium,7440-28-0	1	Lin, Calc Int	0.0	218.7	0.00000	1.000000	
Tin,7440-31-5	1	Lin, Calc Int	0.0	565.7	0.00000	1.000000	
Titanium,7440-32-6	1	Lin, Calc Int	0.0	354000	0.00000	1.000000	
Vanadium,7440-62-2	1	Lin, Calc Int	0.0	168000	0.00000	1.000000	
Zinc,7440-66-6	1	Lin, Calc Int	0.0	22710	0.00000	1.000000	
Zirconium,7440-67-7	1	Lin, Calc Int	0.0	324900	0.00000	1.000000	

Sequence No.: 3
Sample ID: 1600
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/20/2005 5:14:32 PM
Data Type: Reprocessed on 6/21/2005 8:25:24 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1600

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1157301.6	102.47	%	0.819				0.80%
Yttrium,7440-65-5R	2129547.3	102.47	%	0.836				0.82%

Scandium	1713551.0	103.11 %	0.836			0.81%
Ar 420.069	1218577.7	99.823 %	0.6942			0.70%
Aluminum,7429-90-5†	87333.7	9.7640 mg/L	0.12279	9.7640 mg/L	0.12279	1.26%
QC value within limits for Aluminum,7429-90-5 Recovery = 97.64%						
Antimony,7440-36-0†	307.4	0.9508 mg/L	0.02065	0.9508 mg/L	0.02065	2.17%
QC value within limits for Antimony,7440-36-0 Recovery = 95.08%						
Arsenic,7440-38-2†	244.2	0.9469 mg/L	0.03032	0.9469 mg/L	0.03032	3.20%
QC value within limits for Arsenic,7440-38-2 Recovery = 94.69%						
Barium,7440-39-3†	21170.0	1.0086 mg/L	0.01010	1.0086 mg/L	0.01010	1.00%
QC value within limits for Barium,7440-39-3 Recovery = 100.86%						
Beryllium,7440-41-7†	9220747.4	0.9673 mg/L	0.01260	0.9673 mg/L	0.01260	1.30%
QC value within limits for Beryllium,7440-41-7 Recovery = 96.73%						
Boron,7440-42-8†	316397.6	4.9522 mg/L	0.08020	4.9522 mg/L	0.08020	1.62%
QC value within limits for Boron,7440-42-8 Recovery = 99.04%						
Calcium,7440-70-2†	639628.3	9.9750 mg/L	0.14126	9.9750 mg/L	0.14126	1.42%
QC value within limits for Calcium,7440-70-2 Recovery = 99.75%						
Cadmium,7440-43-9†	5643.7	0.9742 mg/L	0.01217	0.9742 mg/L	0.01217	1.25%
QC value within limits for Cadmium,7440-43-9 Recovery = 97.42%						
Chromium,7440-47-3†	113553.9	0.9684 mg/L	0.01216	0.9684 mg/L	0.01216	1.26%
QC value within limits for Chromium,7440-47-3 Recovery = 96.84%						
Cobalt,7440-48-4†	4793.8	0.9727 mg/L	0.01134	0.9727 mg/L	0.01134	1.17%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.27%						
Copper,7440-50-8†	97717.4	0.9563 mg/L	0.01144	0.9563 mg/L	0.01144	1.20%
QC value within limits for Copper,7440-50-8 Recovery = 95.63%						
Iron,7439-89-6†	73837.7	9.7775 mg/L	0.11041	9.7775 mg/L	0.11041	1.13%
QC value within limits for Iron,7439-89-6 Recovery = 97.77%						
Lead,7439-92-1†	1304.8	0.9792 mg/L	0.00859	0.9792 mg/L	0.00859	0.88%
QC value within limits for Lead,7439-92-1 Recovery = 97.92%						
Lithium,7439-93-2†	1645.5	1.1597 mg/L	0.10416	1.1597 mg/L	0.10416	8.98%
QC value greater than the upper limit for Lithium,7439-93-2 Recovery = 115.97%						
Magnesium,7439-95-4†	142071.7	9.9638 mg/L	0.14765	9.9638 mg/L	0.14765	1.48%
QC value within limits for Magnesium,7439-95-4 Recovery = 99.64%						
Manganese,7439-96-5†	133267.0	0.9672 mg/L	0.01371	0.9672 mg/L	0.01371	1.42%
QC value within limits for Manganese,7439-96-5 Recovery = 96.72%						
Molybdenum,7439-98-7†	2965.3	0.9603 mg/L	0.01347	0.9603 mg/L	0.01347	1.40%
QC value within limits for Molybdenum,7439-98-7 Recovery = 96.03%						
Nickel,7440-02-0†	11920.9	0.9768 mg/L	0.01341	0.9768 mg/L	0.01341	1.37%
QC value within limits for Nickel,7440-02-0 Recovery = 97.68%						
Selenium,7782-49-2†	346.0	0.9768 mg/L	0.01612	0.9768 mg/L	0.01612	1.65%
QC value within limits for Selenium,7782-49-2 Recovery = 97.68%						
Silver,7440-22-4†	193817.4	0.9833 mg/L	0.01486	0.9833 mg/L	0.01486	1.51%
QC value within limits for Silver,7440-22-4 Recovery = 98.33%						
Strontium,7440-24-6†	51411.6	0.8651 mg/L	0.01364	0.8651 mg/L	0.01364	1.58%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 86.51%						
Thallium,7440-28-0†	213.0	0.9784 mg/L	0.03780	0.9784 mg/L	0.03780	3.86%
QC value within limits for Thallium,7440-28-0 Recovery = 97.84%						
Tin,7440-31-5†	575.0	1.0255 mg/L	0.01807	1.0255 mg/L	0.01807	1.76%
QC value within limits for Tin,7440-31-5 Recovery = 102.55%						
Titanium,7440-32-6†	337157.4	0.9524 mg/L	0.01217	0.9524 mg/L	0.01217	1.28%
QC value within limits for Titanium,7440-32-6 Recovery = 95.24%						
Vanadium,7440-62-2†	161917.8	0.9664 mg/L	0.01391	0.9664 mg/L	0.01391	1.44%
QC value within limits for Vanadium,7440-62-2 Recovery = 96.64%						
Zinc,7440-66-6†	21911.1	0.9562 mg/L	0.00979	0.9562 mg/L	0.00979	1.02%
QC value within limits for Zinc,7440-66-6 Recovery = 95.62%						
Zirconium,7440-67-7†	5334.6	0.0155 mg/L	0.00904	0.0155 mg/L	0.00904	58.27%

QC Failed. Continue with analysis.

Sequence No.: 4
Sample ID: 1601
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 6/20/2005 5:23:31 PM
Data Type: Reprocessed on 6/21/2005 8:25:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1601

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1132512.0	100.27	%	0.834				0.83%
Yttrium,7440-65-5R	2087373.8	100.44	%	0.825				0.82%
Scandium	1664911.8	100.18	%	0.780				0.78%

Ar 420.069	1229160.8	100.69	%	0.603			0.60%
Aluminum,7429-90-5†	-176.2	-0.0197	mg/L	0.01441	-0.0197	mg/L	0.01441 73.07%
Antimony,7440-36-0†	4.2	0.0134	mg/L	0.01397	0.0134	mg/L	0.01397 104.50%
Arsenic,7440-38-2†	8.6	0.0328	mg/L	0.01005	0.0328	mg/L	0.01005 30.66%
Barium,7440-39-3†	-7.0	-0.0003	mg/L	0.00025	-0.0003	mg/L	0.00025 73.22%
Beryllium,7440-41-7†	-4704.8	-0.0005	mg/L	0.00016	-0.0005	mg/L	0.00016 32.24%
Boron,7440-42-8†	2920.4	0.0457	mg/L	0.00273	0.0457	mg/L	0.00273 5.97%
Calcium,7440-70-2†	393.8	0.0061	mg/L	0.00100	0.0061	mg/L	0.00100 16.34%
Cadmium,7440-43-9†	-0.7	-0.0001	mg/L	0.00040	-0.0001	mg/L	0.00040 343.79%
Chromium,7440-47-3†	-11.7	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022 227.16%
Cobalt,7440-48-4†	-1.5	-0.0003	mg/L	0.00074	-0.0003	mg/L	0.00074 242.45%
Copper,7440-50-8†	78.5	0.0008	mg/L	0.00108	0.0008	mg/L	0.00108 140.08%
Iron,7439-89-6†	19.2	0.0025	mg/L	0.00194	0.0025	mg/L	0.00194 76.30%
Lead,7439-92-1†	-6.3	-0.0047	mg/L	0.00207	-0.0047	mg/L	0.00207 44.03%
Lithium,7439-93-2†	-177.1	-0.1286	mg/L	0.02876	-0.1286	mg/L	0.02876 22.36%
Magnesium,7439-95-4†	-46.7	-0.0033	mg/L	0.00321	-0.0033	mg/L	0.00321 97.91%
Manganese,7439-96-5†	9.4	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005 66.61%
Molybdenum,7439-98-7†	0.5	0.0002	mg/L	0.00285	0.0002	mg/L	0.00285 >999.9%
Nickel,7440-02-0†	16.2	0.0013	mg/L	0.00071	0.0013	mg/L	0.00071 53.82%
Selenium,7782-49-2†	-4.8	-0.0134	mg/L	0.00940	-0.0134	mg/L	0.00940 69.96%
Silver,7440-22-4†	1158.2	0.0058	mg/L	0.00037	0.0058	mg/L	0.00037 6.27%
Strontium,7440-24-6†	13.5	0.0002	mg/L	0.00101	0.0002	mg/L	0.00101 443.01%
Thallium,7440-28-0†	2.9	0.0130	mg/L	0.02400	0.0130	mg/L	0.02400 183.95%
Tin,7440-31-5†	0.3	0.0005	mg/L	0.00225	0.0005	mg/L	0.00225 421.70%
Titanium,7440-32-6†	180.4	0.0005	mg/L	0.00013	0.0005	mg/L	0.00013 25.35%
Vanadium,7440-62-2†	-32.7	-0.0002	mg/L	0.00018	-0.0002	mg/L	0.00018 92.78%
Zinc,7440-66-6†	21.3	0.0009	mg/L	0.00038	0.0009	mg/L	0.00038 41.35%
Zirconium,7440-67-7†	320144.9	0.9855	mg/L	0.00770	0.9855	mg/L	0.00770 0.78%

QC value within limits for Zirconium,7440-67-7 Recovery = 98.55%
All analyte(s) passed QC.

Sequence No.: 5
Sample ID: 1700
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 5:41:16 PM
Data Type: Reprocessed on 6/21/2005 8:25:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1700

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1096759.8	97.108	%	0.7109				0.73%
Yttrium,7440-65-5R	2018010.6	97.098	%	0.6946				0.72%
Scandium	1613128.1	97.064	%	0.7334				0.76%
Ar 420.069	1246234.6	102.09	%	0.166				0.16%
Aluminum,7429-90-5†	-36.7	-0.0041	mg/L	0.01048	-0.0041	mg/L	0.01048	255.45%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	1.6	0.0051	mg/L	0.00164	0.0051	mg/L	0.00164	32.36%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	8.4	0.0320	mg/L	0.00596	0.0320	mg/L	0.00596	18.62%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-22.1	-0.0011	mg/L	0.00051	-0.0011	mg/L	0.00051	48.84%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	1202.3	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	195.42%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	321.0	0.0050	mg/L	0.00049	0.0050	mg/L	0.00049	9.85%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	-82.0	-0.0013	mg/L	0.00138	-0.0013	mg/L	0.00138	108.05%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	1.4	0.0002	mg/L	0.00087	0.0002	mg/L	0.00087	350.89%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	54.7	0.0005	mg/L	0.00043	0.0005	mg/L	0.00043	92.83%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-4.6	-0.0009	mg/L	0.00152	-0.0009	mg/L	0.00152	163.03%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	29.4	0.0003	mg/L	0.00062	0.0003	mg/L	0.00062	216.09%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	7.8	0.0010	mg/L	0.00101	0.0010	mg/L	0.00101	97.48%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	-0.4	-0.0003	mg/L	0.00967	-0.0003	mg/L	0.00967	>999.9%

QC value within limits for Lead,7439-92-1 Recovery = Not calculated
Lithium,7439-93-2† -14.5 -0.0105 mg/L 0.05048 -0.0105 mg/L 0.05048 479.38%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated
Magnesium,7439-95-4† -7.2 -0.0005 mg/L 0.00223 -0.0005 mg/L 0.00223 444.31%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated
Manganese,7439-96-5† 16.3 0.0001 mg/L 0.00004 0.0001 mg/L 0.00004 34.92%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated
Molybdenum,7439-98-7† -2.9 -0.0009 mg/L 0.00104 -0.0009 mg/L 0.00104 111.81%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated
Nickel,7440-02-0† -13.1 -0.0011 mg/L 0.00055 -0.0011 mg/L 0.00055 51.14%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated
Selenium,7782-49-2† -4.9 -0.0137 mg/L 0.01403 -0.0137 mg/L 0.01403 102.19%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated
Silver,7440-22-4† 95.0 0.0005 mg/L 0.00031 0.0005 mg/L 0.00031 65.50%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated
Strontium,7440-24-6† 95.3 0.0016 mg/L 0.00194 0.0016 mg/L 0.00194 121.02%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated
Thallium,7440-28-0† -0.2 -0.0008 mg/L 0.04412 -0.0008 mg/L 0.04412 >999.9%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated
Tin,7440-31-5† 1.4 0.0025 mg/L 0.00411 0.0025 mg/L 0.00411 162.32%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated
Titanium,7440-32-6† -77.1 -0.0002 mg/L 0.00017 -0.0002 mg/L 0.00017 76.83%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated
Vanadium,7440-62-2† 13.5 0.0001 mg/L 0.00010 0.0001 mg/L 0.00010 116.07%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated
Zinc,7440-66-6† 1.2 0.0001 mg/L 0.00018 0.0001 mg/L 0.00018 311.31%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated
Zirconium,7440-67-7† 814.3 0.0025 mg/L 0.00099 0.0025 mg/L 0.00099 39.33%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 6
Sample ID: 2300
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/20/2005 5:46:13 PM
Data Type: Reprocessed on 6/21/2005 8:25:32 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2300

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1118550.5	99.038	%	0.6404				0.65%
Yttrium,7440-65-5R	2057792.3	99.013	%	0.6640				0.67%
Scandium	1650512.9	99.313	%	0.6323				0.64%
Ar 420.069	1234728.6	101.15	%	0.367				0.36%
Aluminum,7429-90-5†	1566.5	0.1751	mg/L	0.01208	0.1751	mg/L	0.01208	6.90%
QC value within limits for Aluminum,7429-90-5 Recovery = 87.55%								
Antimony,7440-36-0†	26.0	0.0821	mg/L	0.01030	0.0821	mg/L	0.01030	12.55%
QC value within limits for Antimony,7440-36-0 Recovery = 136.78%								
Arsenic,7440-38-2†	14.9	0.0571	mg/L	0.01259	0.0571	mg/L	0.01259	22.05%
QC value within limits for Arsenic,7440-38-2 Recovery = 142.75%								
Barium,7440-39-3†	203.8	0.0097	mg/L	0.00045	0.0097	mg/L	0.00045	4.59%
QC value within limits for Barium,7440-39-3 Recovery = 97.07%								
Beryllium,7440-41-7†	45221.6	0.0047	mg/L	0.00019	0.0047	mg/L	0.00019	3.98%
QC value within limits for Beryllium,7440-41-7 Recovery = 94.94%								
Boron,7440-42-8†	31938.2	0.4997	mg/L	0.00692	0.4997	mg/L	0.00692	1.39%
QC value within limits for Boron,7440-42-8 Recovery = 99.94%								
Calcium,7440-70-2†	6734.7	0.1050	mg/L	0.00158	0.1050	mg/L	0.00158	1.51%
QC value within limits for Calcium,7440-70-2 Recovery = 105.01%								
Cadmium,7440-43-9†	35.1	0.0061	mg/L	0.00057	0.0061	mg/L	0.00057	9.31%
QC value within limits for Cadmium,7440-43-9 Recovery = 121.37%								
Chromium,7440-47-3†	1189.5	0.0101	mg/L	0.00036	0.0101	mg/L	0.00036	3.60%
QC value within limits for Chromium,7440-47-3 Recovery = 101.30%								
Cobalt,7440-48-4†	47.5	0.0094	mg/L	0.00048	0.0094	mg/L	0.00048	5.11%
QC value within limits for Cobalt,7440-48-4 Recovery = 94.34%								
Copper,7440-50-8†	1055.7	0.0104	mg/L	0.00051	0.0104	mg/L	0.00051	4.92%
QC value within limits for Copper,7440-50-8 Recovery = 104.16%								
Iron,7439-89-6†	747.7	0.0990	mg/L	0.00192	0.0990	mg/L	0.00192	1.94%
QC value within limits for Iron,7439-89-6 Recovery = 99.03%								
Lead,7439-92-1†	15.2	0.0114	mg/L	0.00143	0.0114	mg/L	0.00143	12.47%

QC value within limits for Lead,7439-92-1 Recovery = 76.21%
Lithium,7439-93-2† 37.2 0.0266 mg/L 0.01600 0.0266 mg/L 0.01600 60.04%
QC value within limits for Lithium,7439-93-2 Recovery = 53.29%
Magnesium,7439-95-4† 1362.6 0.0956 mg/L 0.00457 0.0956 mg/L 0.00457 4.78%
QC value within limits for Magnesium,7439-95-4 Recovery = 95.60%
Manganese,7439-96-5† 2084.0 0.0151 mg/L 0.00026 0.0151 mg/L 0.00026 1.69%
QC value greater than the upper limit for Manganese,7439-96-5 Recovery = 151.20%
Molybdenum,7439-98-7† 152.6 0.0494 mg/L 0.00277 0.0494 mg/L 0.00277 5.61%
QC value within limits for Molybdenum,7439-98-7 Recovery = 98.81%
Nickel,7440-02-0† 469.9 0.0385 mg/L 0.00069 0.0385 mg/L 0.00069 1.80%
QC value within limits for Nickel,7440-02-0 Recovery = 96.27%
Selenium,7782-49-2† 11.7 0.0330 mg/L 0.01113 0.0330 mg/L 0.01113 33.78%
QC value within limits for Selenium,7782-49-2 Recovery = 82.38%
Silver,7440-22-4† 1998.7 0.0102 mg/L 0.00053 0.0102 mg/L 0.00053 5.24%
QC value within limits for Silver,7440-22-4 Recovery = 101.82%
Strontium,7440-24-6† 2345.5 0.0395 mg/L 0.00049 0.0395 mg/L 0.00049 1.23%
QC value within limits for Strontium,7440-24-6 Recovery = 78.98%
Thallium,7440-28-0† 1.4 0.0069 mg/L 0.02946 0.0069 mg/L 0.02946 423.86%
QC value less than the lower limit for Thallium,7440-28-0 Recovery = 34.75%
Tin,7440-31-5† 53.5 0.0951 mg/L 0.00768 0.0951 mg/L 0.00768 8.08%
QC value within limits for Tin,7440-31-5 Recovery = 95.06%
Titanium,7440-32-6† 34797.9 0.0983 mg/L 0.00044 0.0983 mg/L 0.00044 0.45%
QC value within limits for Titanium,7440-32-6 Recovery = 98.31%
Vanadium,7440-62-2† 3249.8 0.0193 mg/L 0.00027 0.0193 mg/L 0.00027 1.40%
QC value within limits for Vanadium,7440-62-2 Recovery = 96.39%
Zinc,7440-66-6† 451.4 0.0197 mg/L 0.00052 0.0197 mg/L 0.00052 2.64%
QC value within limits for Zinc,7440-66-6 Recovery = 98.47%
Zirconium,7440-67-7† 8774.1 0.0269 mg/L 0.00623 0.0269 mg/L 0.00623 23.15%
QC Failed. Continue with analysis.

Sequence No.: 7
Sample ID: 2000
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/20/2005 5:57:43 PM
Data Type: Reprocessed on 6/21/2005 8:25:33 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2000

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1132959.9	100.31	%	0.387				0.39%
Yttrium,7440-65-5R	2087750.6	100.45	%	0.390				0.39%
Scandium	1672140.6	100.61	%	0.374				0.37%
Ar 420.069	1203196.2	98.563	%	0.8621				0.87%
Aluminum,7429-90-5†	1803636.4	201.86	mg/L	1.510	201.86	mg/L	1.510	0.75%
QC value within limits for Aluminum,7429-90-5 Recovery = 100.93%								
Antimony,7440-36-0†	-3.8	-0.0158	mg/L	0.01738	-0.0158	mg/L	0.01738	110.20%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	-18.6	-0.0485	mg/L	0.00948	-0.0485	mg/L	0.00948	19.55%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	16.1	-0.0086	mg/L	0.00062	-0.0086	mg/L	0.00062	7.25%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-7299.4	-0.0009	mg/L	0.00016	-0.0009	mg/L	0.00016	17.87%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	23606.9	0.3845	mg/L	0.00443	0.3845	mg/L	0.00443	1.15%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	12175183.3	189.87	mg/L	1.817	189.87	mg/L	1.817	0.96%
QC value within limits for Calcium,7440-70-2 Recovery = 94.94%								
Cadmium,7440-43-9†	7.8	0.0045	mg/L	0.00060	0.0045	mg/L	0.00060	13.16%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	-481.7	-0.0007	mg/L	0.00085	-0.0007	mg/L	0.00085	126.18%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-1.6	-0.0034	mg/L	0.00321	-0.0034	mg/L	0.00321	93.77%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	-1365.2	-0.0141	mg/L	0.00056	-0.0141	mg/L	0.00056	3.94%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	580113.1	76.846	mg/L	0.4688	76.846	mg/L	0.4688	0.61%
QC value within limits for Iron,7439-89-6 Recovery = 96.06%								
Lead,7439-92-1†	-40.7	-0.0148	mg/L	0.00429	-0.0148	mg/L	0.00429	29.00%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								

Lithium,7439-93-2†	919.1	0.3856 mg/L	0.05438	0.3856 mg/L	0.05438	14.10%
Magnesium,7439-95-4†	2886686.9	202.42 mg/L	1.300	202.42 mg/L	1.300	0.64%
QC value within limits for Magnesium,7439-95-4 Recovery = 101.21%						
Manganese,7439-96-5†	873.8	0.0091 mg/L	0.00045	0.0091 mg/L	0.00045	4.99%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated						
Molybdenum,7439-98-7†	-24.7	-0.0014 mg/L	0.00227	-0.0014 mg/L	0.00227	163.55%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated						
Nickel,7440-02-0†	-23.0	-0.0038 mg/L	0.00049	-0.0038 mg/L	0.00049	12.74%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated						
Selenium,7782-49-2†	-29.1	-0.0401 mg/L	0.01821	-0.0401 mg/L	0.01821	45.35%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated						
Silver,7440-22-4†	-2806.5	-0.0017 mg/L	0.00058	-0.0017 mg/L	0.00058	34.59%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated						
Strontium,7440-24-6†	-231.5	-0.0164 mg/L	0.00114	-0.0164 mg/L	0.00114	6.93%
Thallium,7440-28-0†	1.4	0.0032 mg/L	0.01969	0.0032 mg/L	0.01969	611.85%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated						
Tin,7440-31-5†	-81.3	-0.0664 mg/L	0.02307	-0.0664 mg/L	0.02307	34.73%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated						
Titanium,7440-32-6†	421.5	0.0012 mg/L	0.00023	0.0012 mg/L	0.00023	19.33%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated						
Vanadium,7440-62-2†	-268.5	-0.0051 mg/L	0.00058	-0.0051 mg/L	0.00058	11.43%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated						
Zinc,7440-66-6†	706.9	-0.0132 mg/L	0.00188	-0.0132 mg/L	0.00188	14.23%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated						
Zirconium,7440-67-7†	373.4	0.0008 mg/L	0.00020	0.0008 mg/L	0.00020	24.90%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: 2100
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/20/2005 6:03:33 PM
Data Type: Reprocessed on 6/21/2005 8:25:35 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2100

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1125382.6	99.643	%	0.6336				0.64%
Yttrium,7440-65-5R	2073265.6	99.757	%	0.6422				0.64%
Scandium	1661635.7	99.983	%	0.5864				0.59%
Ar 420.069	1208116.7	98.966	%	0.1053				0.11%
Aluminum,7429-90-5†	1875291.4	209.87	mg/L	2.432	209.87	mg/L	2.432	1.16%
QC value within limits for Aluminum,7429-90-5 Recovery = 104.93%								
Antimony,7440-36-0†	300.1	0.9387	mg/L	0.01484	0.9387	mg/L	0.01484	1.58%
QC value within limits for Antimony,7440-36-0 Recovery = 93.87%								
Arsenic,7440-38-2†	231.0	0.9126	mg/L	0.03759	0.9126	mg/L	0.03759	4.12%
QC value within limits for Arsenic,7440-38-2 Recovery = 91.26%								
Barium,7440-39-3†	10465.5	0.4892	mg/L	0.00077	0.4892	mg/L	0.00077	0.16%
QC value within limits for Barium,7440-39-3 Recovery = 97.84%								
Beryllium,7440-41-7†	4639503.5	0.4862	mg/L	0.00291	0.4862	mg/L	0.00291	0.60%
QC value within limits for Beryllium,7440-41-7 Recovery = 97.25%								
Boron,7440-42-8†	89065.9	1.4094	mg/L	0.00414	1.4094	mg/L	0.00414	0.29%
QC value greater than the upper limit for Boron,7440-42-8 Recovery = 140.94%								
Calcium,7440-70-2†	12687464.5	197.86	mg/L	1.124	197.86	mg/L	1.124	0.57%
QC value within limits for Calcium,7440-70-2 Recovery = 98.93%								
Cadmium,7440-43-9†	5814.0	1.0067	mg/L	0.00337	1.0067	mg/L	0.00337	0.33%
QC value within limits for Cadmium,7440-43-9 Recovery = 100.67%								
Chromium,7440-47-3†	56780.5	0.4865	mg/L	0.00090	0.4865	mg/L	0.00090	0.18%
QC value within limits for Chromium,7440-47-3 Recovery = 97.30%								
Cobalt,7440-48-4†	2337.9	0.4723	mg/L	0.00063	0.4723	mg/L	0.00063	0.13%
QC value within limits for Cobalt,7440-48-4 Recovery = 94.47%								
Copper,7440-50-8†	50651.1	0.4945	mg/L	0.00091	0.4945	mg/L	0.00091	0.18%
QC value within limits for Copper,7440-50-8 Recovery = 98.89%								
Iron,7439-89-6†	600655.7	79.562	mg/L	0.8166	79.562	mg/L	0.8166	1.03%
QC value within limits for Iron,7439-89-6 Recovery = 99.45%								
Lead,7439-92-1†	1273.6	0.9717	mg/L	0.00302	0.9717	mg/L	0.00302	0.31%
QC value within limits for Lead,7439-92-1 Recovery = 97.17%								
Lithium,7439-93-2†	1005.4	0.4377	mg/L	0.08386	0.4377	mg/L	0.08386	19.16%
Magnesium,7439-95-4†	2990654.2	209.71	mg/L	2.104	209.71	mg/L	2.104	1.00%

QC value within limits for Magnesium,7439-95-4 Recovery = 104.86%
Manganese,7439-96-5† 67480.7 0.4923 mg/L 0.00098 0.4923 mg/L 0.00098 0.20%
QC value within limits for Manganese,7439-96-5 Recovery = 98.46%
Molybdenum,7439-98-7† 3059.2 0.9973 mg/L 0.00266 0.9973 mg/L 0.00266 0.27%
QC value within limits for Molybdenum,7439-98-7 Recovery = 99.73%
Nickel,7440-02-0† 11573.4 0.9466 mg/L 0.00126 0.9466 mg/L 0.00126 0.13%
QC value within limits for Nickel,7440-02-0 Recovery = 94.66%
Selenium,7782-49-2† 318.0 0.9369 mg/L 0.00380 0.9369 mg/L 0.00380 0.41%
QC value within limits for Selenium,7782-49-2 Recovery = 93.69%
Silver,7440-22-4† 201002.6 1.0299 mg/L 0.00236 1.0299 mg/L 0.00236 0.23%
QC value within limits for Silver,7440-22-4 Recovery = 102.99%
Strontium,7440-24-6† -330.9 -0.0186 mg/L 0.00144 -0.0186 mg/L 0.00144 7.73%
Thallium,7440-28-0† 232.1 1.0583 mg/L 0.04165 1.0583 mg/L 0.04165 3.94%
QC value within limits for Thallium,7440-28-0 Recovery = 105.83%
Tin,7440-31-5† -74.2 -0.0508 mg/L 0.00943 -0.0508 mg/L 0.00943 18.54%
Titanium,7440-32-6† 568.7 0.0015 mg/L 0.00019 0.0015 mg/L 0.00019 12.25%
Vanadium,7440-62-2† 82156.4 0.4875 mg/L 0.00015 0.4875 mg/L 0.00015 0.03%
QC value within limits for Vanadium,7440-62-2 Recovery = 97.50%
Zinc,7440-66-6† 23210.1 0.9700 mg/L 0.00260 0.9700 mg/L 0.00260 0.27%
QC value within limits for Zinc,7440-66-6 Recovery = 97.00%
Zirconium,7440-67-7† 1905.5 0.0055 mg/L 0.00060 0.0055 mg/L 0.00060 10.80%
QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 6:09:02 PM
Data Type: Reprocessed on 6/21/2005 8:25:36 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1183929.3	104.83	%	0.710				0.68%
Yttrium,7440-65-5R	2179105.6	104.85	%	0.737				0.70%
Scandium	1757787.7	105.77	%	0.694				0.66%
Ar 420.069	1243524.3	101.87	%	0.366				0.36%
Aluminum,7429-90-5†	43006.6	4.8081	mg/L	0.10128	4.8081	mg/L	0.10128	2.11%
QC value within limits for Aluminum,7429-90-5 Recovery = 96.16%								
Antimony,7440-36-0†	150.5	0.4652	mg/L	0.01664	0.4652	mg/L	0.01664	3.58%
QC value within limits for Antimony,7440-36-0 Recovery = 93.03%								
Arsenic,7440-38-2†	123.6	0.4793	mg/L	0.01587	0.4793	mg/L	0.01587	3.31%
QC value within limits for Arsenic,7440-38-2 Recovery = 95.86%								
Barium,7440-39-3†	10242.5	0.4880	mg/L	0.00917	0.4880	mg/L	0.00917	1.88%
QC value within limits for Barium,7440-39-3 Recovery = 97.60%								
Beryllium,7440-41-7†	4614783.2	0.4841	mg/L	0.00760	0.4841	mg/L	0.00760	1.57%
QC value within limits for Beryllium,7440-41-7 Recovery = 96.82%								
Boron,7440-42-8†	153852.9	2.4081	mg/L	0.05278	2.4081	mg/L	0.05278	2.19%
QC value within limits for Boron,7440-42-8 Recovery = 96.32%								
Calcium,7440-70-2†	313180.5	4.8841	mg/L	0.08422	4.8841	mg/L	0.08422	1.72%
QC value within limits for Calcium,7440-70-2 Recovery = 97.68%								
Cadmium,7440-43-9†	2818.9	0.4866	mg/L	0.00486	0.4866	mg/L	0.00486	1.00%
QC value within limits for Cadmium,7440-43-9 Recovery = 97.32%								
Chromium,7440-47-3†	57279.8	0.4885	mg/L	0.00918	0.4885	mg/L	0.00918	1.88%
QC value within limits for Chromium,7440-47-3 Recovery = 97.70%								
Cobalt,7440-48-4†	2393.2	0.4856	mg/L	0.00412	0.4856	mg/L	0.00412	0.85%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.12%								
Copper,7440-50-8†	48569.4	0.4753	mg/L	0.01187	0.4753	mg/L	0.01187	2.50%
QC value within limits for Copper,7440-50-8 Recovery = 95.06%								
Iron,7439-89-6†	36895.8	4.8857	mg/L	0.08189	4.8857	mg/L	0.08189	1.68%
QC value within limits for Iron,7439-89-6 Recovery = 97.71%								
Lead,7439-92-1†	649.6	0.4875	mg/L	0.00635	0.4875	mg/L	0.00635	1.30%
QC value within limits for Lead,7439-92-1 Recovery = 97.50%								
Lithium,7439-93-2†	672.4	0.4707	mg/L	0.06277	0.4707	mg/L	0.06277	13.34%
QC value within limits for Lithium,7439-93-2 Recovery = 94.13%								
Magnesium,7439-95-4†	69934.8	4.9047	mg/L	0.07973	4.9047	mg/L	0.07973	1.63%
QC value within limits for Magnesium,7439-95-4 Recovery = 98.09%								
Manganese,7439-96-5†	66924.3	0.4857	mg/L	0.00933	0.4857	mg/L	0.00933	1.92%
QC value within limits for Manganese,7439-96-5 Recovery = 97.14%								
Molybdenum,7439-98-7†	1512.3	0.4897	mg/L	0.00510	0.4897	mg/L	0.00510	1.04%

QC value within limits for Molybdenum,7439-98-7 Recovery = 97.95%
Nickel,7440-02-0† 5956.8 0.4881 mg/L 0.00827 0.4881 mg/L 0.00827 1.69%
QC value within limits for Nickel,7440-02-0 Recovery = 97.62%
Selenium,7782-49-2† 169.6 0.4789 mg/L 0.00708 0.4789 mg/L 0.00708 1.48%
QC value within limits for Selenium,7782-49-2 Recovery = 95.78%
Silver,7440-22-4† 95611.8 0.4851 mg/L 0.00842 0.4851 mg/L 0.00842 1.74%
QC value within limits for Silver,7440-22-4 Recovery = 97.03%
Strontium,7440-24-6† 26453.0 0.4452 mg/L 0.00875 0.4452 mg/L 0.00875 1.97%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 89.03%
Thallium,7440-28-0† 103.0 0.4730 mg/L 0.04150 0.4730 mg/L 0.04150 8.77%
QC value within limits for Thallium,7440-28-0 Recovery = 94.60%
Tin,7440-31-5† 271.6 0.4846 mg/L 0.00641 0.4846 mg/L 0.00641 1.32%
QC value within limits for Tin,7440-31-5 Recovery = 96.93%
Titanium,7440-32-6† 170105.5 0.4805 mg/L 0.00747 0.4805 mg/L 0.00747 1.56%
QC value within limits for Titanium,7440-32-6 Recovery = 96.10%
Vanadium,7440-62-2† 81570.3 0.4869 mg/L 0.00897 0.4869 mg/L 0.00897 1.84%
QC value within limits for Vanadium,7440-62-2 Recovery = 97.37%
Zinc,7440-66-6† 11168.2 0.4875 mg/L 0.00721 0.4875 mg/L 0.00721 1.48%
QC value within limits for Zinc,7440-66-6 Recovery = 97.49%
Zirconium,7440-67-7† 154255.2 0.4744 mg/L 0.01352 0.4744 mg/L 0.01352 2.85%
QC value within limits for Zirconium,7440-67-7 Recovery = 94.88%
QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 6:14:10 PM
Data Type: Reprocessed on 6/21/2005 8:25:38 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1112076.2	98.465	%	0.9934				1.01%
Yttrium,7440-65-5R	2046473.9	98.468	%	1.0159				1.03%
Scandium	1635057.7	98.383	%	0.9493				0.96%
Ar 420.069	1237714.2	101.39	%	0.630				0.62%
Aluminum,7429-90-5†	-102.5	-0.0115	mg/L	0.01128	-0.0115	mg/L	0.01128	98.35%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	0.2	0.0007	mg/L	0.01885	0.0007	mg/L	0.01885	>999.9%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	4.1	0.0156	mg/L	0.00296	0.0156	mg/L	0.00296	19.03%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-10.3	-0.0005	mg/L	0.00040	-0.0005	mg/L	0.00040	82.15%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	108.8	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024	>999.9%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1335.8	0.0209	mg/L	0.00250	0.0209	mg/L	0.00250	11.98%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	163.2	0.0025	mg/L	0.00060	0.0025	mg/L	0.00060	23.48%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	2.7	0.0005	mg/L	0.00135	0.0005	mg/L	0.00135	291.43%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	-17.7	-0.0001	mg/L	0.00051	-0.0001	mg/L	0.00051	348.38%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-1.6	-0.0003	mg/L	0.00037	-0.0003	mg/L	0.00037	112.53%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	145.1	0.0014	mg/L	0.00059	0.0014	mg/L	0.00059	41.25%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	31.2	0.0041	mg/L	0.00066	0.0041	mg/L	0.00066	16.04%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	1.1	0.0008	mg/L	0.00395	0.0008	mg/L	0.00395	485.86%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								
Lithium,7439-93-2†	-40.5	-0.0295	mg/L	0.02677	-0.0295	mg/L	0.02677	90.87%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated								
Magnesium,7439-95-4†	87.9	0.0062	mg/L	0.00196	0.0062	mg/L	0.00196	31.81%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated								
Manganese,7439-96-5†	9.6	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	136.92%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated								
Molybdenum,7439-98-7†	3.0	0.0010	mg/L	0.00323	0.0010	mg/L	0.00323	328.15%

QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated

Nickel,7440-02-0†	-12.5	-0.0010 mg/L	0.00117	-0.0010 mg/L	0.00117	114.39%

QC value within limits for Nickel,7440-02-0 Recovery = Not calculated

Selenium,7782-49-2†	-6.2	-0.0176 mg/L	0.01096	-0.0176 mg/L	0.01096	62.45%

QC value within limits for Selenium,7782-49-2 Recovery = Not calculated

Silver,7440-22-4†	54.6	0.0003 mg/L	0.00077	0.0003 mg/L	0.00077	278.76%

QC value within limits for Silver,7440-22-4 Recovery = Not calculated

Strontium,7440-24-6†	-13.5	-0.0002 mg/L	0.00057	-0.0002 mg/L	0.00057	252.22%

QC value within limits for Strontium,7440-24-6 Recovery = Not calculated

Thallium,7440-28-0†	3.8	0.0176 mg/L	0.01903	0.0176 mg/L	0.01903	108.41%

QC value within limits for Thallium,7440-28-0 Recovery = Not calculated

Tin,7440-31-5†	1.1	0.0020 mg/L	0.00254	0.0020 mg/L	0.00254	129.61%

QC value within limits for Tin,7440-31-5 Recovery = Not calculated

Titanium,7440-32-6†	-84.4	-0.0002 mg/L	0.00035	-0.0002 mg/L	0.00035	148.63%

QC value within limits for Titanium,7440-32-6 Recovery = Not calculated

Vanadium,7440-62-2†	-38.6	-0.0002 mg/L	0.00051	-0.0002 mg/L	0.00051	223.51%

QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated

Zinc,7440-66-6†	-3.1	-0.0001 mg/L	0.00035	-0.0001 mg/L	0.00035	258.16%

QC value within limits for Zinc,7440-66-6 Recovery = Not calculated

Zirconium,7440-67-7†	130.2	0.0004 mg/L	0.00044	0.0004 mg/L	0.00044	110.92%

QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: 250996
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 17
Date Collected: 6/20/2005 6:19:37 PM
Data Type: Reprocessed on 6/21/2005 8:25:39 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250996

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1143400.8	101.24	%	1.083				1.07%
Yttrium,7440-65-5R	2103601.0	101.22	%	1.083				1.07%
Scandium	1680923.4	101.14	%	1.086				1.07%
Ar 420.069	1246541.0	102.11	%	0.232				0.23%
Aluminum,7429-90-5†	-335.4	-0.0375	mg/L	0.01486	-0.0375	mg/L	0.01486	39.58%
Antimony,7440-36-0†	-2.4	-0.0076	mg/L	0.00858	-0.0076	mg/L	0.00858	113.42%
Arsenic,7440-38-2†	0.5	0.0020	mg/L	0.01617	0.0020	mg/L	0.01617	818.67%
Barium,7440-39-3†	-10.0	-0.0005	mg/L	0.00037	-0.0005	mg/L	0.00037	77.53%
Beryllium,7440-41-7†	-4951.6	-0.0005	mg/L	0.00025	-0.0005	mg/L	0.00025	48.48%
Boron,7440-42-8†	352.3	0.0055	mg/L	0.00123	0.0055	mg/L	0.00123	22.36%
Calcium,7440-70-2†	413.9	0.0065	mg/L	0.00141	0.0065	mg/L	0.00141	21.91%
Cadmium,7440-43-9†	-1.3	-0.0002	mg/L	0.00057	-0.0002	mg/L	0.00057	256.15%
Chromium,7440-47-3†	-44.7	-0.0004	mg/L	0.00062	-0.0004	mg/L	0.00062	165.38%
Cobalt,7440-48-4†	-2.4	-0.0005	mg/L	0.00143	-0.0005	mg/L	0.00143	299.40%
Copper,7440-50-8†	127.9	0.0013	mg/L	0.00131	0.0013	mg/L	0.00131	104.42%
Iron,7439-89-6†	6.8	0.0009	mg/L	0.00106	0.0009	mg/L	0.00106	116.21%
Lead,7439-92-1†	-6.7	-0.0050	mg/L	0.00453	-0.0050	mg/L	0.00453	90.15%
Lithium,7439-93-2†	1.2	0.0009	mg/L	0.02848	0.0009	mg/L	0.02848	>999.9%
Magnesium,7439-95-4†	9.5	0.0007	mg/L	0.00354	0.0007	mg/L	0.00354	530.29%
Manganese,7439-96-5†	-5.0	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	232.73%
Molybdenum,7439-98-7†	0.5	0.0002	mg/L	0.00196	0.0002	mg/L	0.00196	>999.9%
Nickel,7440-02-0†	-8.3	-0.0007	mg/L	0.00105	-0.0007	mg/L	0.00105	154.03%
Selenium,7782-49-2†	1.4	0.0040	mg/L	0.01524	0.0040	mg/L	0.01524	382.61%
Silver,7440-22-4†	-43.7	-0.0002	mg/L	0.00025	-0.0002	mg/L	0.00025	111.91%
Strontium,7440-24-6†	18.3	0.0003	mg/L	0.00065	0.0003	mg/L	0.00065	213.02%
Thallium,7440-28-0†	3.2	0.0145	mg/L	0.03675	0.0145	mg/L	0.03675	253.74%
Tin,7440-31-5†	-1.5	-0.0027	mg/L	0.00140	-0.0027	mg/L	0.00140	52.15%
Titanium,7440-32-6†	-42.6	-0.0001	mg/L	0.00032	-0.0001	mg/L	0.00032	269.03%
Vanadium,7440-62-2†	-14.7	-0.0001	mg/L	0.00068	-0.0001	mg/L	0.00068	760.62%
Zinc,7440-66-6†	28.6	0.0013	mg/L	0.00017	0.0013	mg/L	0.00017	13.36%
Zirconium,7440-67-7†	-215.9	-0.0007	mg/L	0.00030	-0.0007	mg/L	0.00030	44.93%

Sequence No.: 12
Sample ID: 250997
Analyst:
Logged In Analyst (Original) : met

Autosampler Location: 18
Date Collected: 6/20/2005 6:24:33 PM
Data Type: Reprocessed on 6/21/2005 8:25:41 AM

Initial Sample Wt:
Dilution: 1X

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250997

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1168124.3	103.43	%	1.087				1.05%
Yttrium,7440-65-5R	2148174.6	103.36	%	1.071				1.04%
Scandium	1733390.0	104.30	%	1.042				1.00%
Ar 420.069	1246187.3	102.08	%	0.798				0.78%
Aluminum,7429-90-5†	45882.8	5.1296	mg/L	0.04694	5.1296	mg/L	0.04694	0.92%
Antimony,7440-36-0†	159.5	0.4927	mg/L	0.00110	0.4927	mg/L	0.00110	0.22%
Arsenic,7440-38-2†	133.1	0.5160	mg/L	0.01744	0.5160	mg/L	0.01744	3.38%
Barium,7440-39-3†	10968.2	0.5226	mg/L	0.00453	0.5226	mg/L	0.00453	0.87%
Beryllium,7440-41-7†	4917193.8	0.5158	mg/L	0.00084	0.5158	mg/L	0.00084	0.16%
Boron,7440-42-8†	162729.7	2.5471	mg/L	0.02355	2.5471	mg/L	0.02355	0.92%
Calcium,7440-70-2†	333533.0	5.2015	mg/L	0.04679	5.2015	mg/L	0.04679	0.90%
Cadmium,7440-43-9†	3031.0	0.5232	mg/L	0.00522	0.5232	mg/L	0.00522	1.00%
Chromium,7440-47-3†	61176.0	0.5217	mg/L	0.00429	0.5217	mg/L	0.00429	0.82%
Cobalt,7440-48-4†	2584.0	0.5243	mg/L	0.00761	0.5243	mg/L	0.00761	1.45%
Copper,7440-50-8†	51680.0	0.5057	mg/L	0.00616	0.5057	mg/L	0.00616	1.22%
Iron,7439-89-6†	39477.8	5.2275	mg/L	0.04588	5.2275	mg/L	0.04588	0.88%
Lead,7439-92-1†	701.8	0.5267	mg/L	0.00502	0.5267	mg/L	0.00502	0.95%
Lithium,7439-93-2†	617.0	0.4292	mg/L	0.09071	0.4292	mg/L	0.09071	21.13%
Magnesium,7439-95-4†	74664.6	5.2364	mg/L	0.04489	5.2364	mg/L	0.04489	0.86%
Manganese,7439-96-5†	71516.0	0.5190	mg/L	0.00485	0.5190	mg/L	0.00485	0.94%
Molybdenum,7439-98-7†	1606.3	0.5202	mg/L	0.00934	0.5202	mg/L	0.00934	1.80%
Nickel,7440-02-0†	6372.7	0.5222	mg/L	0.00500	0.5222	mg/L	0.00500	0.96%
Selenium,7782-49-2†	186.2	0.5256	mg/L	0.00966	0.5256	mg/L	0.00966	1.84%
Silver,7440-22-4†	102169.0	0.5184	mg/L	0.00448	0.5184	mg/L	0.00448	0.86%
Strontium,7440-24-6†	29043.3	0.4888	mg/L	0.00318	0.4888	mg/L	0.00318	0.65%
Thallium,7440-28-0†	112.2	0.5152	mg/L	0.01954	0.5152	mg/L	0.01954	3.79%
Tin,7440-31-5†	295.2	0.5267	mg/L	0.00212	0.5267	mg/L	0.00212	0.40%
Titanium,7440-32-6†	180928.8	0.5111	mg/L	0.00174	0.5111	mg/L	0.00174	0.34%
Vanadium,7440-62-2†	87473.1	0.5221	mg/L	0.00461	0.5221	mg/L	0.00461	0.88%
Zinc,7440-66-6†	11839.6	0.5167	mg/L	0.00345	0.5167	mg/L	0.00345	0.67%
Zirconium,7440-67-7†	5441.6	0.0163	mg/L	0.00886	0.0163	mg/L	0.00886	54.47%

Sequence No.: 13
Sample ID: 20506200401
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 19
Date Collected: 6/20/2005 6:29:35 PM
Data Type: Reprocessed on 6/21/2005 8:25:42 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506200401

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1144714.0	101.35	%	1.312				1.29%
Yttrium,7440-65-5R	2117568.6	101.89	%	1.324				1.30%
Scandium	1653398.0	99.487	%	1.2955				1.30%
Ar 420.069	1230994.8	100.84	%	0.116				0.11%
Aluminum,7429-90-5†	5675.4	0.6347	mg/L	0.02919	0.6347	mg/L	0.02919	4.60%
Antimony,7440-36-0†	-1.3	-0.0044	mg/L	0.00473	-0.0044	mg/L	0.00473	107.91%
Arsenic,7440-38-2†	5.2	0.0199	mg/L	0.03095	0.0199	mg/L	0.03095	155.87%
Barium,7440-39-3†	248.3	0.0117	mg/L	0.00052	0.0117	mg/L	0.00052	4.46%
Beryllium,7440-41-7†	-9485.6	-0.0009	mg/L	0.00028	-0.0009	mg/L	0.00028	29.57%
Boron,7440-42-8†	3407.6	0.0534	mg/L	0.00364	0.0534	mg/L	0.00364	6.83%
Calcium,7440-70-2†	185999.8	2.9010	mg/L	0.02762	2.9010	mg/L	0.02762	0.95%
Cadmium,7440-43-9†	-7.7	-0.0013	mg/L	0.00034	-0.0013	mg/L	0.00034	25.64%
Chromium,7440-47-3†	107.4	0.0009	mg/L	0.00060	0.0009	mg/L	0.00060	70.66%
Cobalt,7440-48-4†	-5.6	-0.0013	mg/L	0.00064	-0.0013	mg/L	0.00064	48.21%
Copper,7440-50-8†	162.3	0.0017	mg/L	0.00041	0.0017	mg/L	0.00041	24.32%
Iron,7439-89-6†	73.4	0.0097	mg/L	0.00131	0.0097	mg/L	0.00131	13.46%
Lead,7439-92-1†	-7.6	-0.0056	mg/L	0.00325	-0.0056	mg/L	0.00325	58.18%
Lithium,7439-93-2†	-20.8	-0.0153	mg/L	0.05952	-0.0153	mg/L	0.05952	389.34%
Magnesium,7439-95-4†	12602.0	0.8833	mg/L	0.01505	0.8833	mg/L	0.01505	1.70%
Manganese,7439-96-5†	63.6	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	30.64%
Molybdenum,7439-98-7†	7.7	0.0025	mg/L	0.00085	0.0025	mg/L	0.00085	33.94%

Nickel,7440-02-0†	-0.7	-0.0001 mg/L	0.00120	-0.0001 mg/L	0.00120	>999.9%
Selenium,7782-49-2†	-1.6	-0.0044 mg/L	0.00262	-0.0044 mg/L	0.00262	59.57%
Silver,7440-22-4†	-86.3	-0.0002 mg/L	0.00058	-0.0002 mg/L	0.00058	247.27%
Strontium,7440-24-6†	4238.1	0.0711 mg/L	0.00301	0.0711 mg/L	0.00301	4.23%
Thallium,7440-28-0†	-5.2	-0.0235 mg/L	0.03961	-0.0235 mg/L	0.03961	168.37%
Tin,7440-31-5†	-0.7	-0.0003 mg/L	0.00513	-0.0003 mg/L	0.00513	>999.9%
Titanium,7440-32-6†	30147.1	0.0852 mg/L	0.00412	0.0852 mg/L	0.00412	4.84%
Vanadium,7440-62-2†	178.7	0.0010 mg/L	0.00027	0.0010 mg/L	0.00027	27.14%
Zinc,7440-66-6†	102.7	0.0041 mg/L	0.00054	0.0041 mg/L	0.00054	13.17%
Zirconium,7440-67-7†	907.5	0.0027 mg/L	0.00047	0.0027 mg/L	0.00047	17.30%

Sequence No.: 14
Sample ID: 250998
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 20
Date Collected: 6/20/2005 6:35:27 PM
Data Type: Reprocessed on 6/21/2005 8:25:43 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250998

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1174498.8	103.99	%	1.839				1.77%
Yttrium,7440-65-5R	2173029.2	104.56	%	1.845				1.76%
Scandium	1695848.4	102.04	%	1.831				1.79%
Ar 420.069	1226611.4	100.48	%	0.682				0.68%
Aluminum,7429-90-5†	5329.3	0.5960	mg/L	0.03564	0.5960	mg/L	0.03564	5.98%
Antimony,7440-36-0†	-0.3	-0.0010	mg/L	0.00689	-0.0010	mg/L	0.00689	657.04%
Arsenic,7440-38-2†	6.7	0.0256	mg/L	0.02023	0.0256	mg/L	0.02023	79.12%
Barium,7440-39-3†	233.3	0.0110	mg/L	0.00092	0.0110	mg/L	0.00092	8.41%
Beryllium,7440-41-7†	-12430.5	-0.0013	mg/L	0.00038	-0.0013	mg/L	0.00038	30.13%
Boron,7440-42-8†	2534.1	0.0397	mg/L	0.00145	0.0397	mg/L	0.00145	3.66%
Calcium,7440-70-2†	178751.5	2.7880	mg/L	0.09035	2.7880	mg/L	0.09035	3.24%
Cadmium,7440-43-9†	-4.2	-0.0007	mg/L	0.00125	-0.0007	mg/L	0.00125	174.45%
Chromium,7440-47-3†	27.2	0.0002	mg/L	0.00041	0.0002	mg/L	0.00041	231.50%
Cobalt,7440-48-4†	-2.3	-0.0006	mg/L	0.00091	-0.0006	mg/L	0.00091	149.21%
Copper,7440-50-8†	139.4	0.0014	mg/L	0.00098	0.0014	mg/L	0.00098	68.13%
Iron,7439-89-6†	50.6	0.0067	mg/L	0.00312	0.0067	mg/L	0.00312	46.55%
Lead,7439-92-1†	-3.1	-0.0022	mg/L	0.00409	-0.0022	mg/L	0.00409	182.40%
Lithium,7439-93-2†	-144.1	-0.1048	mg/L	0.05386	-0.1048	mg/L	0.05386	51.39%
Magnesium,7439-95-4†	12173.4	0.8533	mg/L	0.01439	0.8533	mg/L	0.01439	1.69%
Manganese,7439-96-5†	64.0	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	15.88%
Molybdenum,7439-98-7†	4.8	0.0016	mg/L	0.00210	0.0016	mg/L	0.00210	133.04%
Nickel,7440-02-0†	-3.8	-0.0003	mg/L	0.00043	-0.0003	mg/L	0.00043	133.91%
Selenium,7782-49-2†	5.3	0.0149	mg/L	0.00875	0.0149	mg/L	0.00875	58.72%
Silver,7440-22-4†	-155.5	-0.0006	mg/L	0.00068	-0.0006	mg/L	0.00068	115.14%
Strontium,7440-24-6†	3891.7	0.0653	mg/L	0.00100	0.0653	mg/L	0.00100	1.53%
Thallium,7440-28-0†	0.3	0.0017	mg/L	0.01513	0.0017	mg/L	0.01513	901.50%
Tin,7440-31-5†	-0.8	-0.0005	mg/L	0.00666	-0.0005	mg/L	0.00666	>999.9%
Titanium,7440-32-6†	23267.0	0.0657	mg/L	0.00824	0.0657	mg/L	0.00824	12.53%
Vanadium,7440-62-2†	232.5	0.0013	mg/L	0.00083	0.0013	mg/L	0.00083	62.89%
Zinc,7440-66-6†	79.1	0.0031	mg/L	0.00040	0.0031	mg/L	0.00040	12.96%
Zirconium,7440-67-7†	571.9	0.0017	mg/L	0.00016	0.0017	mg/L	0.00016	9.16%

Sequence No.: 15
Sample ID: 250999
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 21
Date Collected: 6/20/2005 6:40:25 PM
Data Type: Reprocessed on 6/21/2005 8:25:44 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250999

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1166091.8	103.25	%	0.108				0.10%
Yttrium,7440-65-5R	2157197.3	103.80	%	0.082				0.08%
Scandium	1689380.2	101.65	%	0.102				0.10%
Ar 420.069	1235423.3	101.20	%	0.710				0.70%
Aluminum,7429-90-5†	53790.8	6.0146	mg/L	0.07994	6.0146	mg/L	0.07994	1.33%

Antimony,7440-36-0†	151.2	0.4673 mg/L	0.02223	0.4673 mg/L	0.02223	4.76%
Arsenic,7440-38-2†	129.8	0.5034 mg/L	0.01082	0.5034 mg/L	0.01082	2.15%
Barium,7440-39-3†	10304.1	0.4908 mg/L	0.00195	0.4908 mg/L	0.00195	0.40%
Beryllium,7440-41-7†	4520255.4	0.4742 mg/L	0.00688	0.4742 mg/L	0.00688	1.45%
Boron,7440-42-8†	167104.7	2.6155 mg/L	0.03411	2.6155 mg/L	0.03411	1.30%
Calcium,7440-70-2†	478599.3	7.4641 mg/L	0.11104	7.4641 mg/L	0.11104	1.49%
Cadmium,7440-43-9†	2902.4	0.5010 mg/L	0.00127	0.5010 mg/L	0.00127	0.25%
Chromium,7440-47-3†	57007.5	0.4860 mg/L	0.00538	0.4860 mg/L	0.00538	1.11%
Cobalt,7440-48-4†	2326.4	0.4718 mg/L	0.00295	0.4718 mg/L	0.00295	0.63%
Copper,7440-50-8†	55952.1	0.5476 mg/L	0.01162	0.5476 mg/L	0.01162	2.12%
Iron,7439-89-6†	35942.8	4.7590 mg/L	0.05306	4.7590 mg/L	0.05306	1.11%
Lead,7439-92-1†	633.8	0.4757 mg/L	0.00413	0.4757 mg/L	0.00413	0.87%
Lithium,7439-93-2†	965.7	0.6839 mg/L	0.01259	0.6839 mg/L	0.01259	1.84%
Magnesium,7439-95-4†	80329.3	5.6332 mg/L	0.05462	5.6332 mg/L	0.05462	0.97%
Manganese,7439-96-5†	64673.4	0.4694 mg/L	0.00507	0.4694 mg/L	0.00507	1.08%
Molybdenum,7439-98-7†	1493.6	0.4837 mg/L	0.00205	0.4837 mg/L	0.00205	0.42%
Nickel,7440-02-0†	5742.7	0.4706 mg/L	0.00246	0.4706 mg/L	0.00246	0.52%
Selenium,7782-49-2†	181.2	0.5113 mg/L	0.00692	0.5113 mg/L	0.00692	1.35%
Silver,7440-22-4†	105963.3	0.5376 mg/L	0.00647	0.5376 mg/L	0.00647	1.20%
Strontium,7440-24-6†	73638.5	1.2395 mg/L	0.01537	1.2395 mg/L	0.01537	1.24%
Thallium,7440-28-0†	99.6	0.4578 mg/L	0.00646	0.4578 mg/L	0.00646	1.41%
Tin,7440-31-5†	269.7	0.4822 mg/L	0.00953	0.4822 mg/L	0.00953	1.98%
Titanium,7440-32-6†	201535.1	0.5693 mg/L	0.00899	0.5693 mg/L	0.00899	1.58%
Vanadium,7440-62-2†	84183.8	0.5023 mg/L	0.00661	0.5023 mg/L	0.00661	1.32%
Zinc,7440-66-6†	11202.4	0.4887 mg/L	0.00620	0.4887 mg/L	0.00620	1.27%
Zirconium,7440-67-7†	161219.7	0.4957 mg/L	0.00572	0.4957 mg/L	0.00572	1.15%

Sequence No.: 16
Sample ID: 251070
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 6/20/2005 6:45:30 PM
Data Type: Reprocessed on 6/21/2005 8:25:45 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251070

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1154331.0	102.21	%	2.030				1.99%
Yttrium,7440-65-5R	2134661.0	102.71	%	2.025				1.97%
Scandium	1667200.3	100.32	%	1.982				1.98%
Ar 420.069	1232323.7	100.95	%	0.723				0.72%
Aluminum,7429-90-5†	51053.5	5.7085	mg/L	0.12015	5.7085	mg/L	0.12015	2.10%
Antimony,7440-36-0†	146.6	0.4533	mg/L	0.02686	0.4533	mg/L	0.02686	5.92%
Arsenic,7440-38-2†	117.1	0.4543	mg/L	0.01226	0.4543	mg/L	0.01226	2.70%
Barium,7440-39-3†	9627.5	0.4585	mg/L	0.00798	0.4585	mg/L	0.00798	1.74%
Beryllium,7440-41-7†	4239712.2	0.4448	mg/L	0.00656	0.4448	mg/L	0.00656	1.48%
Boron,7440-42-8†	166703.7	2.6091	mg/L	0.02293	2.6091	mg/L	0.02293	0.88%
Calcium,7440-70-2†	469091.0	7.3158	mg/L	0.08927	7.3158	mg/L	0.08927	1.22%
Cadmium,7440-43-9†	2706.5	0.4672	mg/L	0.01272	0.4672	mg/L	0.01272	2.72%
Chromium,7440-47-3†	53342.2	0.4548	mg/L	0.00832	0.4548	mg/L	0.00832	1.83%
Cobalt,7440-48-4†	2166.6	0.4393	mg/L	0.01037	0.4393	mg/L	0.01037	2.36%
Copper,7440-50-8†	53118.5	0.5199	mg/L	0.00466	0.5199	mg/L	0.00466	0.90%
Iron,7439-89-6†	33652.9	4.4559	mg/L	0.07982	4.4559	mg/L	0.07982	1.79%
Lead,7439-92-1†	601.0	0.4511	mg/L	0.00752	0.4511	mg/L	0.00752	1.67%
Lithium,7439-93-2†	1317.2	0.9403	mg/L	0.08217	0.9403	mg/L	0.08217	8.74%
Magnesium,7439-95-4†	76492.3	5.3641	mg/L	0.09288	5.3641	mg/L	0.09288	1.73%
Manganese,7439-96-5†	60459.3	0.4388	mg/L	0.00729	0.4388	mg/L	0.00729	1.66%
Molybdenum,7439-98-7†	1453.7	0.4708	mg/L	0.01036	0.4708	mg/L	0.01036	2.20%
Nickel,7440-02-0†	5421.2	0.4442	mg/L	0.00495	0.4442	mg/L	0.00495	1.12%
Selenium,7782-49-2†	167.8	0.4737	mg/L	0.00998	0.4737	mg/L	0.00998	2.11%
Silver,7440-22-4†	99370.1	0.5042	mg/L	0.00648	0.5042	mg/L	0.00648	1.29%
Strontium,7440-24-6†	71426.1	1.2022	mg/L	0.01443	1.2022	mg/L	0.01443	1.20%
Thallium,7440-28-0†	92.0	0.4233	mg/L	0.03498	0.4233	mg/L	0.03498	8.27%
Tin,7440-31-5†	261.0	0.4666	mg/L	0.01156	0.4666	mg/L	0.01156	2.48%
Titanium,7440-32-6†	198108.6	0.5596	mg/L	0.00918	0.5596	mg/L	0.00918	1.64%
Vanadium,7440-62-2†	78929.4	0.4709	mg/L	0.00777	0.4709	mg/L	0.00777	1.65%
Zinc,7440-66-6†	10577.0	0.4613	mg/L	0.00804	0.4613	mg/L	0.00804	1.74%
Zirconium,7440-67-7†	7534.5	0.0227	mg/L	0.01055	0.0227	mg/L	0.01055	46.56%

Sequence No.: 17
Sample ID: 251069
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 23
Date Collected: 6/20/2005 6:50:32 PM
Data Type: Reprocessed on 6/21/2005 8:25:47 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251069

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1163003.5	102.97	%	0.439				0.43%
Yttrium,7440-65-5R	2144528.0	103.19	%	0.443				0.43%
Scandium	1712282.0	103.03	%	0.406				0.39%
Ar 420.069	1252657.0	102.61	%	0.487				0.47%
Aluminum,7429-90-5†	632.0	0.0706	mg/L	0.00483	0.3532	mg/L	0.02416	6.84%
Antimony,7440-36-0†	2.4	0.0075	mg/L	0.00441	0.0377	mg/L	0.02207	58.48%
Arsenic,7440-38-2†	7.2	0.0274	mg/L	0.02132	0.1369	mg/L	0.10661	77.87%
Barium,7440-39-3†	41.4	0.0019	mg/L	0.00019	0.0097	mg/L	0.00096	9.84%
Beryllium,7440-41-7†	-8772.9	-0.0009	mg/L	0.00008	-0.0046	mg/L	0.00041	8.98%
Boron,7440-42-8†	2480.2	0.0388	mg/L	0.00109	0.1941	mg/L	0.00545	2.81%
Calcium,7440-70-2†	38159.0	0.5952	mg/L	0.01067	2.9758	mg/L	0.05333	1.79%
Cadmium,7440-43-9†	-2.9	-0.0005	mg/L	0.00101	-0.0025	mg/L	0.00505	201.38%
Chromium,7440-47-3†	-13.7	-0.0001	mg/L	0.00079	-0.0006	mg/L	0.00394	652.20%
Cobalt,7440-48-4†	-8.7	-0.0018	mg/L	0.00095	-0.0090	mg/L	0.00475	52.67%
Copper,7440-50-8†	205.5	0.0020	mg/L	0.00079	0.0101	mg/L	0.00397	39.18%
Iron,7439-89-6†	25.4	0.0034	mg/L	0.00128	0.0169	mg/L	0.00638	37.83%
Lead,7439-92-1†	-0.3	-0.0002	mg/L	0.00528	-0.0012	mg/L	0.02638	>999.9%
Lithium,7439-93-2†	-107.7	-0.0783	mg/L	0.07417	-0.3913	mg/L	0.37086	94.78%
Magnesium,7439-95-4†	2587.2	0.1813	mg/L	0.00466	0.9067	mg/L	0.02329	2.57%
Manganese,7439-96-5†	-10.7	-0.0001	mg/L	0.00015	-0.0004	mg/L	0.00073	186.23%
Molybdenum,7439-98-7†	9.4	0.0031	mg/L	0.00079	0.0153	mg/L	0.00396	25.92%
Nickel,7440-02-0†	-7.2	-0.0006	mg/L	0.00076	-0.0029	mg/L	0.00381	129.12%
Selenium,7782-49-2†	1.7	0.0047	mg/L	0.00531	0.0234	mg/L	0.02656	113.65%
Silver,7440-22-4†	-64.1	-0.0003	mg/L	0.00047	-0.0014	mg/L	0.00233	165.97%
Strontium,7440-24-6†	768.2	0.0129	mg/L	0.00105	0.0645	mg/L	0.00526	8.16%
Thallium,7440-28-0†	-0.4	-0.0018	mg/L	0.02236	-0.0089	mg/L	0.11179	>999.9%
Tin,7440-31-5†	-2.2	-0.0036	mg/L	0.00705	-0.0181	mg/L	0.03525	194.37%
Titanium,7440-32-6†	5643.2	0.0159	mg/L	0.00223	0.0797	mg/L	0.01116	14.00%
Vanadium,7440-62-2†	67.2	0.0004	mg/L	0.00021	0.0019	mg/L	0.00107	56.00%
Zinc,7440-66-6†	38.2	0.0016	mg/L	0.00049	0.0080	mg/L	0.00243	30.47%
Zirconium,7440-67-7†	-373.7	-0.0012	mg/L	0.00017	-0.0058	mg/L	0.00086	14.77%

Sequence No.: 18
Sample ID: 20506200501
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 24
Date Collected: 6/20/2005 6:55:31 PM
Data Type: Reprocessed on 6/21/2005 8:25:48 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506200501

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1094429.6	96.902	%	0.3424				0.35%
Yttrium,7440-65-5R	2021087.7	97.246	%	0.3713				0.38%
Scandium	1605361.2	96.597	%	0.3445				0.36%
Ar 420.069	1159200.9	94.959	%	0.4507				0.47%
Aluminum,7429-90-5†	1016.6	0.1128	mg/L	0.00908	0.5638	mg/L	0.04539	8.05%
Antimony,7440-36-0†	1.3	0.0046	mg/L	0.01032	0.0229	mg/L	0.05159	225.39%
Arsenic,7440-38-2†	-35.3	-0.1345	mg/L	0.02860	-0.6725	mg/L	0.14302	21.27%
Barium,7440-39-3†	22045.8	1.0507	mg/L	0.00412	5.2535	mg/L	0.02058	0.39%
Beryllium,7440-41-7†	-6843.4	-0.0009	mg/L	0.00015	-0.0043	mg/L	0.00077	18.10%
Boron,7440-42-8†	3545.8	0.0555	mg/L	0.00133	0.2776	mg/L	0.00664	2.39%
Calcium,7440-70-2†	Saturated3							
Cadmium,7440-43-9†	-19.0	-0.0033	mg/L	0.00069	-0.0164	mg/L	0.00347	21.15%
Chromium,7440-47-3†	-2314.0	-0.0199	mg/L	0.00084	-0.0994	mg/L	0.00418	4.21%
Cobalt,7440-48-4†	-29.1	-0.0060	mg/L	0.00243	-0.0300	mg/L	0.01213	40.47%
Copper,7440-50-8†	-21830.6	-0.2134	mg/L	0.00070	-1.0672	mg/L	0.00352	0.33%
Iron,7439-89-6†	1220.6	0.1611	mg/L	0.00280	0.8053	mg/L	0.01402	1.74%
Lead,7439-92-1†	-18.5	-0.0137	mg/L	0.00547	-0.0683	mg/L	0.02736	40.03%

Lithium,7439-93-2†	325.5	0.2359 mg/L	0.01819	1.1794 mg/L	0.09097	7.71%
Magnesium,7439-95-4†	106087.8	7.4368 mg/L	0.02609	37.184 mg/L	0.1304	0.35%
Manganese,7439-96-5†	91642.2	0.6650 mg/L	0.00187	3.3249 mg/L	0.00933	0.28%
Molybdenum,7439-98-7†	162.9	0.0530 mg/L	0.00351	0.2650 mg/L	0.01757	6.63%
Nickel,7440-02-0†	64.1	0.0052 mg/L	0.00107	0.0262 mg/L	0.00536	20.47%
Selenium,7782-49-2†	-11.7	-0.0331 mg/L	0.02703	-0.1656 mg/L	0.13513	81.59%
Silver,7440-22-4†	-23020.9	-0.1162 mg/L	0.00044	-0.5810 mg/L	0.00220	0.38%
Strontium,7440-24-6†	425917.1	7.1716 mg/L	0.05678	35.858 mg/L	0.2839	0.79%
Thallium,7440-28-0†	-44.3	-0.2009 mg/L	0.03351	-1.0046 mg/L	0.16753	16.68%
Tin,7440-31-5†	-148.0	-0.2604 mg/L	0.01070	-1.3019 mg/L	0.05351	4.11%
Titanium,7440-32-6†	10026.7	0.0283 mg/L	0.02212	0.1416 mg/L	0.11061	78.11%
Vanadium,7440-62-2†	5989.8	0.0356 mg/L	0.00032	0.1779 mg/L	0.00162	0.91%
Zinc,7440-66-6†	545.7	0.0240 mg/L	0.00145	0.1198 mg/L	0.00724	6.05%
Zirconium,7440-67-7†	925.2	0.0028 mg/L	0.00016	0.0141 mg/L	0.00080	5.63%

Sequence No.: 19
Sample ID: 20506200501
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 40X

Autosampler Location: 25
Date Collected: 6/20/2005 7:00:31 PM
Data Type: Reprocessed on 6/21/2005 8:25:49 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506200501

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1131116.1	100.15	%	2.450				2.45%
Yttrium,7440-65-5R	2083842.1	100.27	%	2.476				2.47%
Scandium	1666928.8	100.30	%	2.465				2.46%
Ar 420.069	1230040.1	100.76	%	0.344				0.34%
Aluminum,7429-90-5†	-262.1	-0.1058	mg/L	0.03324	-4.2316	mg/L	1.32965	31.42%
Antimony,7440-36-0†	0.4	0.0097	mg/L	0.01590	0.3881	mg/L	0.63596	163.85%
Arsenic,7440-38-2†	-5.9	-0.0122	mg/L	0.01748	-0.4899	mg/L	0.69915	142.71%
Barium,7440-39-3†	2981.9	0.1203	mg/L	0.00250	4.8140	mg/L	0.10004	2.08%
Beryllium,7440-41-7†	-8141.9	-0.0009	mg/L	0.00055	-0.0350	mg/L	0.02180	62.30%
Boron,7440-42-8†	289.8	0.0149	mg/L	0.00116	0.5960	mg/L	0.04630	7.77%
Calcium,7440-70-2†	30763493.9	479.82	mg/L	14.283	19193	mg/L	571.3	2.98%
Cadmium,7440-43-9†	3.7	0.0000	mg/L	0.00055	-0.0008	mg/L	0.02199	>999.9%
Chromium,7440-47-3†	-370.4	0.0010	mg/L	0.00020	0.0394	mg/L	0.00815	20.66%
Cobalt,7440-48-4†	-4.7	-0.0010	mg/L	0.00086	-0.0387	mg/L	0.03450	89.23%
Copper,7440-50-8†	-3717.0	-0.0330	mg/L	0.00144	-1.3203	mg/L	0.05749	4.35%
Iron,7439-89-6†	173.7	0.0253	mg/L	0.00145	1.0135	mg/L	0.05812	5.73%
Lead,7439-92-1†	-11.0	-0.0076	mg/L	0.00463	-0.3039	mg/L	0.18539	61.01%
Lithium,7439-93-2†	-242.1	-0.1875	mg/L	0.03355	-7.5008	mg/L	1.34209	17.89%
Magnesium,7439-95-4†	14513.2	0.9686	mg/L	0.01336	38.744	mg/L	0.5343	1.38%
Manganese,7439-96-5†	12396.9	0.0900	mg/L	0.00211	3.5982	mg/L	0.08435	2.34%
Molybdenum,7439-98-7†	9.8	0.0089	mg/L	0.00109	0.3547	mg/L	0.04380	12.35%
Nickel,7440-02-0†	4.8	-0.0001	mg/L	0.00093	-0.0050	mg/L	0.03714	748.93%
Selenium,7782-49-2†	1.8	-0.0084	mg/L	0.01976	-0.3364	mg/L	0.79049	235.00%
Silver,7440-22-4†	-4536.2	0.0102	mg/L	0.00029	0.4064	mg/L	0.01153	2.84%
Strontium,7440-24-6†	33829.3	0.5338	mg/L	0.00912	21.351	mg/L	0.3648	1.71%
Thallium,7440-28-0†	-7.6	-0.0190	mg/L	0.01887	-0.7582	mg/L	0.75484	99.56%
Tin,7440-31-5†	-26.4	0.0368	mg/L	0.00738	1.4716	mg/L	0.29506	20.05%
Titanium,7440-32-6†	1114.4	0.0031	mg/L	0.00063	0.1259	mg/L	0.02525	20.05%
Vanadium,7440-62-2†	779.3	0.0046	mg/L	0.00067	0.1850	mg/L	0.02689	14.53%
Zinc,7440-66-6†	343.2	-0.0647	mg/L	0.00365	-2.5871	mg/L	0.14586	5.64%
Zirconium,7440-67-7†	-349.8	0.0002	mg/L	0.00048	0.0089	mg/L	0.01930	216.48%

Sequence No.: 20
Sample ID: 20506200901
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 26
Date Collected: 6/20/2005 7:06:00 PM
Data Type: Reprocessed on 6/21/2005 8:25:50 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506200901

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1160095.1	102.72	%	7.943				7.73%

Yttrium,7440-65-5R	2135249.1	102.74	%	7.985				7.77%
Scandium	1720807.8	103.54	%	8.048				7.77%
Ar 420.069	1256542.8	102.93	%	0.026				0.03%
Aluminum,7429-90-5†	-467.6	-0.0550	mg/L	0.08228	-0.0550	mg/L	0.08228	149.66%
Antimony,7440-36-0†	2.2	0.0065	mg/L	0.00430	0.0065	mg/L	0.00430	65.89%
Arsenic,7440-38-2†	1.8	0.0076	mg/L	0.03030	0.0076	mg/L	0.03030	397.05%
Barium,7440-39-3†	3670.2	0.1746	mg/L	0.01348	0.1746	mg/L	0.01348	7.72%
Beryllium,7440-41-7†	-6077.1	-0.0006	mg/L	0.00190	-0.0006	mg/L	0.00190	298.46%
Boron,7440-42-8†	1368.3	0.0219	mg/L	0.00381	0.0219	mg/L	0.00381	17.42%
Calcium,7440-70-2†	552515.7	8.6170	mg/L	0.86236	8.6170	mg/L	0.86236	10.01%
Cadmium,7440-43-9†	5.2	0.0008	mg/L	0.00230	0.0008	mg/L	0.00230	272.11%
Chromium,7440-47-3†	140.9	0.0009	mg/L	0.00130	0.0009	mg/L	0.00130	139.29%
Cobalt,7440-48-4†	61.3	0.0124	mg/L	0.00173	0.0124	mg/L	0.00173	13.91%
Copper,7440-50-8†	291.3	0.0028	mg/L	0.00253	0.0028	mg/L	0.00253	89.89%
Iron,7439-89-6†	6205.0	0.8222	mg/L	0.06709	0.8222	mg/L	0.06709	8.16%
Lead,7439-92-1†	0.5	0.0002	mg/L	0.00237	0.0002	mg/L	0.00237	>999.9%
Lithium,7439-93-2†	-26.4	-0.0219	mg/L	0.01465	-0.0219	mg/L	0.01465	66.95%
Magnesium,7439-95-4†	88483.5	6.1996	mg/L	0.51438	6.1996	mg/L	0.51438	8.30%
Manganese,7439-96-5†	235028.4	1.7055	mg/L	0.17299	1.7055	mg/L	0.17299	10.14%
Molybdenum,7439-98-7†	0.3	0.0007	mg/L	0.00111	0.0007	mg/L	0.00111	169.82%
Nickel,7440-02-0†	47.8	0.0039	mg/L	0.00165	0.0039	mg/L	0.00165	42.71%
Selenium,7782-49-2†	6.3	0.0166	mg/L	0.02205	0.0166	mg/L	0.02205	133.20%
Silver,7440-22-4†	-112.5	-0.0003	mg/L	0.00091	-0.0003	mg/L	0.00091	355.03%
Strontium,7440-24-6†	4992.0	0.0834	mg/L	0.01096	0.0834	mg/L	0.01096	13.14%
Thallium,7440-28-0†	-4.1	-0.0150	mg/L	0.00961	-0.0150	mg/L	0.00961	64.23%
Tin,7440-31-5†	-6.5	-0.0087	mg/L	0.00605	-0.0087	mg/L	0.00605	69.22%
Titanium,7440-32-6†	172.8	0.0005	mg/L	0.00032	0.0005	mg/L	0.00032	66.45%
Vanadium,7440-62-2†	-59.0	-0.0002	mg/L	0.00163	-0.0002	mg/L	0.00163	705.62%
Zinc,7440-66-6†	12775.5	0.5606	mg/L	0.04703	0.5606	mg/L	0.04703	8.39%
Zirconium,7440-67-7†	-458.0	-0.0014	mg/L	0.00154	-0.0014	mg/L	0.00154	112.57%

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Sequence No.: 21
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 7:11:02 PM
Data Type: Reprocessed on 6/21/2005 8:25:51 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1166150.9	103.25	%	0.882				0.85%
Yttrium,7440-65-5R	2147045.8	103.31	%	0.885				0.86%
Scandium	1731674.2	104.20	%	0.872				0.84%
Ar 420.069	1249857.5	102.39	%	0.467				0.46%
Aluminum,7429-90-5†	42502.0	4.7516	mg/L	0.09105	4.7516	mg/L	0.09105	1.92%
QC value within limits for Aluminum,7429-90-5 Recovery = 95.03%								
Antimony,7440-36-0†	149.3	0.4614	mg/L	0.01362	0.4614	mg/L	0.01362	2.95%
QC value within limits for Antimony,7440-36-0 Recovery = 92.27%								
Arsenic,7440-38-2†	121.7	0.4719	mg/L	0.02002	0.4719	mg/L	0.02002	4.24%
QC value within limits for Arsenic,7440-38-2 Recovery = 94.38%								
Barium,7440-39-3†	10230.4	0.4874	mg/L	0.01100	0.4874	mg/L	0.01100	2.26%
QC value within limits for Barium,7440-39-3 Recovery = 97.48%								
Beryllium,7440-41-7†	4607020.0	0.4833	mg/L	0.00605	0.4833	mg/L	0.00605	1.25%
QC value within limits for Beryllium,7440-41-7 Recovery = 96.66%								
Boron,7440-42-8†	151658.1	2.3738	mg/L	0.04726	2.3738	mg/L	0.04726	1.99%
QC value within limits for Boron,7440-42-8 Recovery = 94.95%								
Calcium,7440-70-2†	312091.5	4.8671	mg/L	0.06773	4.8671	mg/L	0.06773	1.39%
QC value within limits for Calcium,7440-70-2 Recovery = 97.34%								
Cadmium,7440-43-9†	2818.8	0.4866	mg/L	0.00425	0.4866	mg/L	0.00425	0.87%
QC value within limits for Cadmium,7440-43-9 Recovery = 97.32%								
Chromium,7440-47-3†	57112.7	0.4871	mg/L	0.00900	0.4871	mg/L	0.00900	1.85%
QC value within limits for Chromium,7440-47-3 Recovery = 97.42%								
Cobalt,7440-48-4†	2383.8	0.4837	mg/L	0.00468	0.4837	mg/L	0.00468	0.97%
QC value within limits for Cobalt,7440-48-4 Recovery = 96.74%								
Copper,7440-50-8†	47585.1	0.4657	mg/L	0.00856	0.4657	mg/L	0.00856	1.84%
QC value within limits for Copper,7440-50-8 Recovery = 93.14%								
Iron,7439-89-6†	36732.1	4.8640	mg/L	0.08850	4.8640	mg/L	0.08850	1.82%
QC value within limits for Iron,7439-89-6 Recovery = 97.28%								
Lead,7439-92-1†	650.4	0.4881	mg/L	0.00322	0.4881	mg/L	0.00322	0.66%

QC value within limits for Lead,7439-92-1 Recovery = 97.61%
Lithium,7439-93-2† 587.2 0.4088 mg/L 0.02173 0.4088 mg/L 0.02173 5.32%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 81.76%
Magnesium,7439-95-4† 69510.5 4.8749 mg/L 0.08953 4.8749 mg/L 0.08953 1.84%
QC value within limits for Magnesium,7439-95-4 Recovery = 97.50%
Manganese,7439-96-5† 66012.7 0.4791 mg/L 0.00726 0.4791 mg/L 0.00726 1.52%
QC value within limits for Manganese,7439-96-5 Recovery = 95.82%
Molybdenum,7439-98-7† 1521.5 0.4927 mg/L 0.00389 0.4927 mg/L 0.00389 0.79%
QC value within limits for Molybdenum,7439-98-7 Recovery = 98.54%
Nickel,7440-02-0† 5936.1 0.4864 mg/L 0.00934 0.4864 mg/L 0.00934 1.92%
QC value within limits for Nickel,7440-02-0 Recovery = 97.28%
Selenium,7782-49-2† 172.5 0.4870 mg/L 0.00966 0.4870 mg/L 0.00966 1.98%
QC value within limits for Selenium,7782-49-2 Recovery = 97.41%
Silver,7440-22-4† 95376.9 0.4839 mg/L 0.01114 0.4839 mg/L 0.01114 2.30%
QC value within limits for Silver,7440-22-4 Recovery = 96.79%
Strontium,7440-24-6† 26565.2 0.4470 mg/L 0.00823 0.4470 mg/L 0.00823 1.84%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 89.41%
Thallium,7440-28-0† 105.7 0.4856 mg/L 0.04422 0.4856 mg/L 0.04422 9.11%
QC value within limits for Thallium,7440-28-0 Recovery = 97.11%
Tin,7440-31-5† 270.7 0.4831 mg/L 0.00336 0.4831 mg/L 0.00336 0.70%
QC value within limits for Tin,7440-31-5 Recovery = 96.62%
Titanium,7440-32-6† 168490.7 0.4759 mg/L 0.00638 0.4759 mg/L 0.00638 1.34%
QC value within limits for Titanium,7440-32-6 Recovery = 95.19%
Vanadium,7440-62-2† 81289.5 0.4852 mg/L 0.00959 0.4852 mg/L 0.00959 1.98%
QC value within limits for Vanadium,7440-62-2 Recovery = 97.04%
Zinc,7440-66-6† 11123.1 0.4855 mg/L 0.01059 0.4855 mg/L 0.01059 2.18%
QC value within limits for Zinc,7440-66-6 Recovery = 97.10%
Zirconium,7440-67-7† 153398.9 0.4717 mg/L 0.00453 0.4717 mg/L 0.00453 0.96%
QC value within limits for Zirconium,7440-67-7 Recovery = 94.35%
QC Failed. Continue with analysis.

Sequence No.: 22
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 7:16:09 PM
Data Type: Reprocessed on 6/21/2005 8:25:52 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1113099.3	98.555	%	0.4736				0.48%
Yttrium,7440-65-5R	2048237.5	98.553	%	0.4509				0.46%
Scandium	1635857.3	98.432	%	0.4561				0.46%
Ar 420.069	1262696.4	103.44	%	0.370				0.36%
Aluminum,7429-90-5†	-416.3	-0.0466	mg/L	0.00977	-0.0466	mg/L	0.00977	20.96%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	5.2	0.0165	mg/L	0.00326	0.0165	mg/L	0.00326	19.74%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	4.0	0.0152	mg/L	0.03018	0.0152	mg/L	0.03018	198.36%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-14.7	-0.0007	mg/L	0.00058	-0.0007	mg/L	0.00058	81.85%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-1622.7	-0.0002	mg/L	0.00024	-0.0002	mg/L	0.00024	139.01%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1205.5	0.0189	mg/L	0.00221	0.0189	mg/L	0.00221	11.70%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	2708.1	0.0422	mg/L	0.00684	0.0422	mg/L	0.00684	16.19%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	2.5	0.0004	mg/L	0.00058	0.0004	mg/L	0.00058	135.91%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	-32.6	-0.0003	mg/L	0.00012	-0.0003	mg/L	0.00012	45.37%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-1.5	-0.0003	mg/L	0.00073	-0.0003	mg/L	0.00073	231.27%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	259.0	0.0025	mg/L	0.00034	0.0025	mg/L	0.00034	13.41%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	24.6	0.0033	mg/L	0.00295	0.0033	mg/L	0.00295	90.21%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	-4.2	-0.0032	mg/L	0.00238	-0.0032	mg/L	0.00238	75.09%

QC value within limits for Lead,7439-92-1 Recovery = Not calculated
Lithium,7439-93-2† -32.9 -0.0239 mg/L 0.01636 -0.0239 mg/L 0.01636 68.52%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated
Magnesium,7439-95-4† 25.8 0.0018 mg/L 0.00365 0.0018 mg/L 0.00365 202.09%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated
Manganese,7439-96-5† 5.5 0.0000 mg/L 0.00010 0.0000 mg/L 0.00010 248.14%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated
Molybdenum,7439-98-7† -1.2 -0.0004 mg/L 0.00057 -0.0004 mg/L 0.00057 146.20%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated
Nickel,7440-02-0† -2.1 -0.0002 mg/L 0.00107 -0.0002 mg/L 0.00107 625.69%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated
Selenium,7782-49-2† 8.0 0.0225 mg/L 0.01653 0.0225 mg/L 0.01653 73.40%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated
Silver,7440-22-4† 107.6 0.0005 mg/L 0.00033 0.0005 mg/L 0.00033 60.49%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated
Strontium,7440-24-6† 67.3 0.0011 mg/L 0.00122 0.0011 mg/L 0.00122 108.03%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated
Thallium,7440-28-0† 3.3 0.0153 mg/L 0.00629 0.0153 mg/L 0.00629 41.08%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated
Tin,7440-31-5† 2.5 0.0045 mg/L 0.00721 0.0045 mg/L 0.00721 160.49%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated
Titanium,7440-32-6† 50.8 0.0001 mg/L 0.00039 0.0001 mg/L 0.00039 268.62%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated
Vanadium,7440-62-2† 27.8 0.0002 mg/L 0.00019 0.0002 mg/L 0.00019 114.56%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated
Zinc,7440-66-6† 6.6 0.0003 mg/L 0.00086 0.0003 mg/L 0.00086 304.52%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated
Zirconium,7440-67-7† 80.9 0.0002 mg/L 0.00051 0.0002 mg/L 0.00051 203.25%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 23
Sample ID: 20506200902
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 6/20/2005 7:21:05 PM
Data Type: Reprocessed on 6/21/2005 8:25:53 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506200902

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1197482.3	106.03	%	2.631				2.48%
Yttrium,7440-65-5R	2204653.7	106.08	%	2.667				2.51%
Scandium	1776227.4	106.88	%	2.685				2.51%
Ar 420.069	1263812.4	103.53	%	0.377				0.36%
Aluminum,7429-90-5†	-733.2	-0.0843	mg/L	0.03800	-0.0843	mg/L	0.03800	45.11%
Antimony,7440-36-0†	-3.9	-0.0124	mg/L	0.01166	-0.0124	mg/L	0.01166	94.34%
Arsenic,7440-38-2†	-0.9	-0.0027	mg/L	0.00332	-0.0027	mg/L	0.00332	122.00%
Barium,7440-39-3†	3614.7	0.1720	mg/L	0.00426	0.1720	mg/L	0.00426	2.47%
Beryllium,7440-41-7†	-15928.9	-0.0017	mg/L	0.00056	-0.0017	mg/L	0.00056	33.39%
Boron,7440-42-8†	1591.7	0.0252	mg/L	0.00172	0.0252	mg/L	0.00172	6.82%
Calcium,7440-70-2†	501614.1	7.8233	mg/L	0.23092	7.8233	mg/L	0.23092	2.95%
Cadmium,7440-43-9†	-2.9	-0.0005	mg/L	0.00037	-0.0005	mg/L	0.00037	69.07%
Chromium,7440-47-3†	-52.4	-0.0008	mg/L	0.00024	-0.0008	mg/L	0.00024	30.86%
Cobalt,7440-48-4†	32.6	0.0066	mg/L	0.00111	0.0066	mg/L	0.00111	16.83%
Copper,7440-50-8†	492.5	0.0048	mg/L	0.00137	0.0048	mg/L	0.00137	28.48%
Iron,7439-89-6†	886.7	0.1174	mg/L	0.00253	0.1174	mg/L	0.00253	2.15%
Lead,7439-92-1†	-5.0	-0.0039	mg/L	0.00191	-0.0039	mg/L	0.00191	49.42%
Lithium,7439-93-2†	-80.9	-0.0592	mg/L	0.03905	-0.0592	mg/L	0.03905	65.97%
Magnesium,7439-95-4†	83494.1	5.8507	mg/L	0.17537	5.8507	mg/L	0.17537	3.00%
Manganese,7439-96-5†	159644.2	1.1584	mg/L	0.03608	1.1584	mg/L	0.03608	3.11%
Molybdenum,7439-98-7†	-1.5	-0.0001	mg/L	0.00123	-0.0001	mg/L	0.00123	>999.9%
Nickel,7440-02-0†	87.1	0.0071	mg/L	0.00045	0.0071	mg/L	0.00045	6.26%
Selenium,7782-49-2†	6.4	0.0171	mg/L	0.02092	0.0171	mg/L	0.02092	122.44%
Silver,7440-22-4†	-6.0	0.0003	mg/L	0.00033	0.0003	mg/L	0.00033	103.73%
Strontium,7440-24-6†	4884.4	0.0817	mg/L	0.00363	0.0817	mg/L	0.00363	4.44%
Thallium,7440-28-0†	-3.0	-0.0112	mg/L	0.03086	-0.0112	mg/L	0.03086	274.48%
Tin,7440-31-5†	-6.1	-0.0084	mg/L	0.00363	-0.0084	mg/L	0.00363	43.06%
Titanium,7440-32-6†	-81.6	-0.0002	mg/L	0.00019	-0.0002	mg/L	0.00019	80.45%
Vanadium,7440-62-2†	131.2	0.0009	mg/L	0.00030	0.0009	mg/L	0.00030	34.66%

Zinc,7440-66-6†	6641.9	0.2908 mg/L	0.00938	0.2908 mg/L	0.00938	3.22%
Zirconium,7440-67-7†	-566.2	-0.0017 mg/L	0.00057	-0.0017 mg/L	0.00057	33.37%

Sequence No.: 24
Sample ID: LCS ZR
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 28
Date Collected: 6/20/2005 7:26:07 PM
Data Type: Reprocessed on 6/21/2005 8:25:55 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCS ZR

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1168481.8	103.46	%	1.389				1.34%
Yttrium,7440-65-5R	2151955.3	103.54	%	1.383				1.34%
Scandium	1719408.5	103.46	%	1.336				1.29%
Ar 420.069	1267407.8	103.82	%	0.637				0.61%
Aluminum,7429-90-5†	-584.9	-0.0655	mg/L	0.01843	-0.0655	mg/L	0.01843	28.15%
Antimony,7440-36-0†	-2.5	-0.0080	mg/L	0.01139	-0.0080	mg/L	0.01139	142.96%
Arsenic,7440-38-2†	8.1	0.0308	mg/L	0.00341	0.0308	mg/L	0.00341	11.06%
Barium,7440-39-3†	-6.2	-0.0003	mg/L	0.00027	-0.0003	mg/L	0.00027	89.60%
Beryllium,7440-41-7†	-10263.6	-0.0011	mg/L	0.00019	-0.0011	mg/L	0.00019	17.62%
Boron,7440-42-8†	-138.6	-0.0022	mg/L	0.00040	-0.0022	mg/L	0.00040	18.29%
Calcium,7440-70-2†	2432.1	0.0379	mg/L	0.03567	0.0379	mg/L	0.03567	94.04%
Cadmium,7440-43-9†	-7.6	-0.0013	mg/L	0.00059	-0.0013	mg/L	0.00059	45.22%
Chromium,7440-47-3†	-93.4	-0.0008	mg/L	0.00082	-0.0008	mg/L	0.00082	104.00%
Cobalt,7440-48-4†	-3.0	-0.0006	mg/L	0.00092	-0.0006	mg/L	0.00092	152.45%
Copper,7440-50-8†	229.3	0.0022	mg/L	0.00052	0.0022	mg/L	0.00052	23.38%
Iron,7439-89-6†	-2.9	-0.0004	mg/L	0.00193	-0.0004	mg/L	0.00193	504.24%
Lead,7439-92-1†	-5.9	-0.0045	mg/L	0.00423	-0.0045	mg/L	0.00423	94.97%
Lithium,7439-93-2†	-43.6	-0.0316	mg/L	0.05936	-0.0316	mg/L	0.05936	187.61%
Magnesium,7439-95-4†	132.4	0.0093	mg/L	0.01428	0.0093	mg/L	0.01428	153.89%
Manganese,7439-96-5†	6.1	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	196.24%
Molybdenum,7439-98-7†	3.9	0.0012	mg/L	0.00192	0.0012	mg/L	0.00192	153.76%
Nickel,7440-02-0†	-15.7	-0.0013	mg/L	0.00041	-0.0013	mg/L	0.00041	31.62%
Selenium,7782-49-2†	7.7	0.0217	mg/L	0.01170	0.0217	mg/L	0.01170	53.83%
Silver,7440-22-4†	427.3	0.0022	mg/L	0.00065	0.0022	mg/L	0.00065	29.89%
Strontium,7440-24-6†	11.2	0.0002	mg/L	0.00079	0.0002	mg/L	0.00079	424.24%
Thallium,7440-28-0†	0.5	0.0021	mg/L	0.01623	0.0021	mg/L	0.01623	775.55%
Tin,7440-31-5†	-1.2	-0.0021	mg/L	0.00885	-0.0021	mg/L	0.00885	422.57%
Titanium,7440-32-6†	-381.2	-0.0011	mg/L	0.00036	-0.0011	mg/L	0.00036	33.49%
Vanadium,7440-62-2†	48.3	0.0003	mg/L	0.00072	0.0003	mg/L	0.00072	252.93%
Zinc,7440-66-6†	25.5	0.0011	mg/L	0.00030	0.0011	mg/L	0.00030	27.06%
Zirconium,7440-67-7†	135972.2	0.4186	mg/L	0.05469	0.4186	mg/L	0.05469	13.07%

Sequence No.: 25
Sample ID: 250956
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 29
Date Collected: 6/20/2005 7:31:10 PM
Data Type: Reprocessed on 6/21/2005 8:25:56 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250956

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1201024.0	106.34	%	1.314				1.24%
Yttrium,7440-65-5R	2219009.6	106.77	%	1.311				1.23%
Scandium	1765507.4	106.23	%	1.315				1.24%
Ar 420.069	1243344.9	101.85	%	0.555				0.54%
Aluminum,7429-90-5†	-789.2	-0.0883	mg/L	0.01426	-0.0883	mg/L	0.01426	16.14%
Antimony,7440-36-0†	2.6	0.0084	mg/L	0.02135	0.0084	mg/L	0.02135	255.63%
Arsenic,7440-38-2†	7.8	0.0299	mg/L	0.02746	0.0299	mg/L	0.02746	91.78%
Barium,7440-39-3†	19.9	0.0009	mg/L	0.00028	0.0009	mg/L	0.00028	29.82%
Beryllium,7440-41-7†	-15169.6	-0.0016	mg/L	0.00027	-0.0016	mg/L	0.00027	17.09%
Boron,7440-42-8†	-336.8	-0.0053	mg/L	0.00077	-0.0053	mg/L	0.00077	14.71%
Calcium,7440-70-2†	1742.0	0.0272	mg/L	0.00485	0.0272	mg/L	0.00485	17.86%
Cadmium,7440-43-9†	3.6	0.0006	mg/L	0.00120	0.0006	mg/L	0.00120	192.54%
Chromium,7440-47-3†	-124.4	-0.0010	mg/L	0.00017	-0.0010	mg/L	0.00017	15.87%

Seq. No.	24	AS Loc:	28	Date:	2005/06/20 19:28:54		
Sample ID:	LCS ZR						
Analyte		Conc (Calib)	Conc (Sample)	Net Intensity	Corr. Intensity	Time	
Zirconium,7440-67-7							
		~~0.3584 mg/L~~	0.3584 mg/L		116,428.3	2005/06/20 19:27:46	
		0.4320 mg/L	0.4320 mg/L	151,491.6	140,345.3	2005/06/20 19:28:20	
		0.4653 mg/L	0.4653 mg/L	160,711.4	151,143.1	2005/06/20 19:28:54	
	Mean:	~~0.4186 mg/L~~	0.4186 mg/L		135,972.2		
	SD:	0.05469 mg/L	0.05469 mg/L				
	%RSD:	13.07					

0.44865 AJW 6-21-05

Cobalt,7440-48-4†	-1.7	-0.0004 mg/L	0.00152	-0.0004 mg/L	0.00152	430.72%
Copper,7440-50-8†	129.9	0.0013 mg/L	0.00058	0.0013 mg/L	0.00058	45.36%
Iron,7439-89-6†	22.5	0.0030 mg/L	0.00123	0.0030 mg/L	0.00123	41.36%
Lead,7439-92-1†	5.0	0.0038 mg/L	0.00307	0.0038 mg/L	0.00307	81.49%
Lithium,7439-93-2†	-71.0	-0.0516 mg/L	0.02915	-0.0516 mg/L	0.02915	56.52%
Magnesium,7439-95-4†	43.5	0.0031 mg/L	0.00187	0.0031 mg/L	0.00187	61.19%
Manganese,7439-96-5†	-23.2	-0.0002 mg/L	0.00012	-0.0002 mg/L	0.00012	71.10%
Molybdenum,7439-98-7†	-6.3	-0.0020 mg/L	0.00287	-0.0020 mg/L	0.00287	141.52%
Nickel,7440-02-0†	-26.8	-0.0022 mg/L	0.00049	-0.0022 mg/L	0.00049	22.11%
Selenium,7782-49-2†	4.0	0.0112 mg/L	0.01002	0.0112 mg/L	0.01002	89.58%
Silver,7440-22-4†	-229.4	-0.0012 mg/L	0.00036	-0.0012 mg/L	0.00036	31.35%
Strontium,7440-24-6†	21.4	0.0004 mg/L	0.00117	0.0004 mg/L	0.00117	327.75%
Thallium,7440-28-0†	2.3	0.0104 mg/L	0.04470	0.0104 mg/L	0.04470	430.33%
Tin,7440-31-5†	-3.6	-0.0063 mg/L	0.00509	-0.0063 mg/L	0.00509	80.54%
Titanium,7440-32-6†	-131.3	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	29.57%
Vanadium,7440-62-2†	139.0	0.0008 mg/L	0.00069	0.0008 mg/L	0.00069	83.36%
Zinc,7440-66-6†	36.4	0.0016 mg/L	0.00017	0.0016 mg/L	0.00017	10.55%
Zirconium,7440-67-7†	4148.2	0.0128 mg/L	0.00385	0.0128 mg/L	0.00385	30.11%

Sequence No.: 26
Sample ID: 250957
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 30
Date Collected: 6/20/2005 7:36:11 PM
Data Type: Reprocessed on 6/21/2005 8:25:57 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250957

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1200212.5	106.27	%	1.428				1.34%
Yttrium,7440-65-5R	2214835.4	106.57	%	1.464				1.37%
Scandium	1766899.7	106.32	%	1.421				1.34%
Ar 420.069	1243345.8	101.85	%	0.560				0.55%
Aluminum,7429-90-5†	47814.0	5.3460	mg/L	0.11552	5.3460	mg/L	0.11552	2.16%
Antimony,7440-36-0†	147.5	0.4555	mg/L	0.00564	0.4555	mg/L	0.00564	1.24%
Arsenic,7440-38-2†	124.6	0.4832	mg/L	0.02409	0.4832	mg/L	0.02409	4.98%
Barium,7440-39-3†	10135.5	0.4829	mg/L	0.00568	0.4829	mg/L	0.00568	1.18%
Beryllium,7440-41-7†	4575566.5	0.4799	mg/L	0.00064	0.4799	mg/L	0.00064	0.13%
Boron,7440-42-8†	162793.9	2.5480	mg/L	0.04482	2.5480	mg/L	0.04482	1.76%
Calcium,7440-70-2†	312233.5	4.8693	mg/L	0.08238	4.8693	mg/L	0.08238	1.69%
Cadmium,7440-43-9†	2899.8	0.5006	mg/L	0.00682	0.5006	mg/L	0.00682	1.36%
Chromium,7440-47-3†	57760.0	0.4925	mg/L	0.00957	0.4925	mg/L	0.00957	1.94%
Cobalt,7440-48-4†	2358.3	0.4785	mg/L	0.00553	0.4785	mg/L	0.00553	1.16%
Copper,7440-50-8†	55293.0	0.5411	mg/L	0.00797	0.5411	mg/L	0.00797	1.47%
Iron,7439-89-6†	36483.3	4.8307	mg/L	0.08988	4.8307	mg/L	0.08988	1.86%
Lead,7439-92-1†	648.2	0.4864	mg/L	0.00313	0.4864	mg/L	0.00313	0.64%
Lithium,7439-93-2†	1031.3	0.7315	mg/L	0.03973	0.7315	mg/L	0.03973	5.43%
Magnesium,7439-95-4†	69155.4	4.8500	mg/L	0.08270	4.8500	mg/L	0.08270	1.71%
Manganese,7439-96-5†	65435.2	0.4749	mg/L	0.00925	0.4749	mg/L	0.00925	1.95%
Molybdenum,7439-98-7†	1484.5	0.4807	mg/L	0.00531	0.4807	mg/L	0.00531	1.10%
Nickel,7440-02-0†	5789.7	0.4744	mg/L	0.00474	0.4744	mg/L	0.00474	1.00%
Selenium,7782-49-2†	181.4	0.5121	mg/L	0.01469	0.5121	mg/L	0.01469	2.87%
Silver,7440-22-4†	104334.2	0.5292	mg/L	0.01041	0.5292	mg/L	0.01041	1.97%
Strontium,7440-24-6†	62920.0	1.0592	mg/L	0.01799	1.0592	mg/L	0.01799	1.70%
Thallium,7440-28-0†	108.0	0.4961	mg/L	0.03148	0.4961	mg/L	0.03148	6.35%
Tin,7440-31-5†	266.0	0.4748	mg/L	0.01162	0.4748	mg/L	0.01162	2.45%
Titanium,7440-32-6†	173100.0	0.4890	mg/L	0.00192	0.4890	mg/L	0.00192	0.39%
Vanadium,7440-62-2†	84673.3	0.5053	mg/L	0.00937	0.5053	mg/L	0.00937	1.85%
Zinc,7440-66-6†	11253.3	0.4913	mg/L	0.00434	0.4913	mg/L	0.00434	0.88%
Zirconium,7440-67-7†	11676.2	0.0355	mg/L	0.02445	0.0355	mg/L	0.02445	68.94%

Sequence No.: 27
Sample ID: 20506171436
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 31
Date Collected: 6/20/2005 7:41:18 PM
Data Type: Reprocessed on 6/21/2005 8:25:58 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171436

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1197820.2	106.06	%	1.439				1.36%
Yttrium,7440-65-5R	2206694.7	106.18	%	1.414				1.33%
Scandium	1772436.8	106.65	%	1.489				1.40%
Ar 420.069	1261286.4	103.32	%	0.231				0.22%
Aluminum,7429-90-5†	-749.3	-0.0806	mg/L	0.01787	-0.0806	mg/L	0.01787	22.17%
Antimony,7440-36-0†	0.7	-0.0016	mg/L	0.01409	-0.0016	mg/L	0.01409	892.58%
Arsenic,7440-38-2†	-1.0	-0.0018	mg/L	0.02951	-0.0018	mg/L	0.02951	>999.9%
Barium,7440-39-3†	1393.8	0.0658	mg/L	0.00091	0.0658	mg/L	0.00091	1.39%
Beryllium,7440-41-7†	-13987.4	-0.0015	mg/L	0.00033	-0.0015	mg/L	0.00033	22.30%
Boron,7440-42-8†	13927.3	0.2249	mg/L	0.00371	0.2249	mg/L	0.00371	1.65%
Calcium,7440-70-2†	368172.5	5.7361	mg/L	0.11806	5.7361	mg/L	0.11806	2.06%
Cadmium,7440-43-9†	0.0	0.0002	mg/L	0.00139	0.0002	mg/L	0.00139	597.23%
Chromium,7440-47-3†	277.9	0.0172	mg/L	0.00067	0.0172	mg/L	0.00067	3.87%
Cobalt,7440-48-4†	28.7	0.0036	mg/L	0.00154	0.0036	mg/L	0.00154	42.68%
Copper,7440-50-8†	581.0	0.0050	mg/L	0.00022	0.0050	mg/L	0.00022	4.38%
Iron,7439-89-6†	300852.2	39.876	mg/L	0.8632	39.876	mg/L	0.8632	2.16%
Lead,7439-92-1†	29.6	0.0209	mg/L	0.00186	0.0209	mg/L	0.00186	8.87%
Lithium,7439-93-2†	528.0	0.2483	mg/L	0.06131	0.2483	mg/L	0.06131	24.70%
Magnesium,7439-95-4†	3749.3	0.2859	mg/L	0.00394	0.2859	mg/L	0.00394	1.38%
Manganese,7439-96-5†	4846.6	0.0372	mg/L	0.00081	0.0372	mg/L	0.00081	2.17%
Molybdenum,7439-98-7†	4.2	0.0018	mg/L	0.00074	0.0018	mg/L	0.00074	41.26%
Nickel,7440-02-0†	195.8	0.0151	mg/L	0.00127	0.0151	mg/L	0.00127	8.45%
Selenium,7782-49-2†	1.5	0.0219	mg/L	0.01668	0.0219	mg/L	0.01668	76.20%
Silver,7440-22-4†	-735.1	-0.0030	mg/L	0.00071	-0.0030	mg/L	0.00071	23.44%
Strontium,7440-24-6†	2226.3	0.0382	mg/L	0.00010	0.0382	mg/L	0.00010	0.27%
Thallium,7440-28-0†	1.5	0.0056	mg/L	0.00322	0.0056	mg/L	0.00322	57.96%
Tin,7440-31-5†	-3.1	0.0044	mg/L	0.00770	0.0044	mg/L	0.00770	175.38%
Titanium,7440-32-6†	181.2	0.0005	mg/L	0.00028	0.0005	mg/L	0.00028	54.77%
Vanadium,7440-62-2†	165.1	-0.0009	mg/L	0.00052	-0.0009	mg/L	0.00052	58.44%
Zinc,7440-66-6†	5107.8	0.2190	mg/L	0.00477	0.2190	mg/L	0.00477	2.18%
Zirconium,7440-67-7†	-366.0	-0.0016	mg/L	0.00055	-0.0016	mg/L	0.00055	35.00%

Sequence No.: 28
Sample ID: 250959
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 32
Date Collected: 6/20/2005 7:46:22 PM
Data Type: Reprocessed on 6/21/2005 8:25:59 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250959

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1215515.0	107.62	%	4.704				4.37%
Yttrium,7440-65-5R	2236885.8	107.63	%	4.719				4.38%
Scandium	1800401.7	108.33	%	4.744				4.38%
Ar 420.069	1274427.6	104.40	%	0.271				0.26%
Aluminum,7429-90-5†	44981.9	5.0323	mg/L	0.21353	5.0323	mg/L	0.21353	4.24%
Antimony,7440-36-0†	152.0	0.4661	mg/L	0.02558	0.4661	mg/L	0.02558	5.49%
Arsenic,7440-38-2†	122.9	0.4790	mg/L	0.02492	0.4790	mg/L	0.02492	5.20%
Barium,7440-39-3†	11721.3	0.5579	mg/L	0.01675	0.5579	mg/L	0.01675	3.00%
Beryllium,7440-41-7†	4670588.0	0.4899	mg/L	0.02474	0.4899	mg/L	0.02474	5.05%
Boron,7440-42-8†	170157.8	2.6702	mg/L	0.08982	2.6702	mg/L	0.08982	3.36%
Calcium,7440-70-2†	680311.2	10.604	mg/L	0.5143	10.604	mg/L	0.5143	4.85%
Cadmium,7440-43-9†	2924.5	0.5050	mg/L	0.01913	0.5050	mg/L	0.01913	3.79%
Chromium,7440-47-3†	58324.9	0.5120	mg/L	0.01751	0.5120	mg/L	0.01751	3.42%
Cobalt,7440-48-4†	2473.7	0.4998	mg/L	0.01696	0.4998	mg/L	0.01696	3.39%
Copper,7440-50-8†	51839.3	0.5066	mg/L	0.01470	0.5066	mg/L	0.01470	2.90%
Iron,7439-89-6†	334524.8	44.334	mg/L	1.4585	44.334	mg/L	1.4585	3.29%
Lead,7439-92-1†	697.3	0.5220	mg/L	0.01972	0.5220	mg/L	0.01972	3.78%
Lithium,7439-93-2†	1429.4	0.8866	mg/L	0.02839	0.8866	mg/L	0.02839	3.20%
Magnesium,7439-95-4†	73855.7	5.2024	mg/L	0.17311	5.2024	mg/L	0.17311	3.33%
Manganese,7439-96-5†	71412.9	0.5203	mg/L	0.01642	0.5203	mg/L	0.01642	3.16%
Molybdenum,7439-98-7†	1540.8	0.4994	mg/L	0.01550	0.4994	mg/L	0.01550	3.10%
Nickel,7440-02-0†	6188.2	0.5061	mg/L	0.01621	0.5061	mg/L	0.01621	3.20%
Selenium,7782-49-2†	171.7	0.5022	mg/L	0.01788	0.5022	mg/L	0.01788	3.56%
Silver,7440-22-4†	99010.6	0.5030	mg/L	0.01604	0.5030	mg/L	0.01604	3.19%
Strontium,7440-24-6†	43957.5	0.7406	mg/L	0.02620	0.7406	mg/L	0.02620	3.54%

Thallium,7440-28-0†	105.6	0.4838 mg/L	0.04254	0.4838 mg/L	0.04254	8.79%
Tin,7440-31-5†	272.7	0.4963 mg/L	0.01869	0.4963 mg/L	0.01869	3.77%
Titanium,7440-32-6†	174967.3	0.4942 mg/L	0.02252	0.4942 mg/L	0.02252	4.56%
Vanadium,7440-62-2†	83966.7	0.4993 mg/L	0.01538	0.4993 mg/L	0.01538	3.08%
Zinc,7440-66-6†	16364.0	0.7103 mg/L	0.02346	0.7103 mg/L	0.02346	3.30%
Zirconium,7440-67-7†	2244.9	0.0060 mg/L	0.00246	0.0060 mg/L	0.00246	41.06%

Sequence No.: 29
Sample ID: 251011
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 33
Date Collected: 6/20/2005 7:51:52 PM
Data Type: Reprocessed on 6/21/2005 8:26:00 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251011

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1201527.9	106.38	%	2.359				2.22%
Yttrium,7440-65-5R	2211596.0	106.41	%	2.367				2.22%
Scandium	1779772.3	107.09	%	2.338				2.18%
Ar 420.069	1272909.9	104.27	%	0.344				0.33%
Aluminum,7429-90-5†	46684.0	5.2226	mg/L	0.22271	5.2226	mg/L	0.22271	4.26%
Antimony,7440-36-0†	160.0	0.4909	mg/L	0.02518	0.4909	mg/L	0.02518	5.13%
Arsenic,7440-38-2†	137.3	0.5340	mg/L	0.02187	0.5340	mg/L	0.02187	4.10%
Barium,7440-39-3†	12094.7	0.5757	mg/L	0.02052	0.5757	mg/L	0.02052	3.56%
Beryllium,7440-41-7†	4786332.6	0.5021	mg/L	0.01527	0.5021	mg/L	0.01527	3.04%
Boron,7440-42-8†	176254.0	2.7655	mg/L	0.10130	2.7655	mg/L	0.10130	3.66%
Calcium,7440-70-2†	681311.8	10.620	mg/L	0.3302	10.620	mg/L	0.3302	3.11%
Cadmium,7440-43-9†	2974.8	0.5137	mg/L	0.01370	0.5137	mg/L	0.01370	2.67%
Chromium,7440-47-3†	60456.1	0.5300	mg/L	0.01978	0.5300	mg/L	0.01978	3.73%
Cobalt,7440-48-4†	2522.9	0.5098	mg/L	0.01355	0.5098	mg/L	0.01355	2.66%
Copper,7440-50-8†	53968.5	0.5274	mg/L	0.01793	0.5274	mg/L	0.01793	3.40%
Iron,7439-89-6†	332418.3	44.055	mg/L	1.5788	44.055	mg/L	1.5788	3.58%
Lead,7439-92-1†	715.7	0.5358	mg/L	0.01442	0.5358	mg/L	0.01442	2.69%
Lithium,7439-93-2†	1504.0	0.9417	mg/L	0.06847	0.9417	mg/L	0.06847	7.27%
Magnesium,7439-95-4†	76112.3	5.3604	mg/L	0.18915	5.3604	mg/L	0.18915	3.53%
Manganese,7439-96-5†	73791.0	0.5375	mg/L	0.02016	0.5375	mg/L	0.02016	3.75%
Molybdenum,7439-98-7†	1577.5	0.5113	mg/L	0.01572	0.5113	mg/L	0.01572	3.08%
Nickel,7440-02-0†	6365.0	0.5206	mg/L	0.01779	0.5206	mg/L	0.01779	3.42%
Selenium,7782-49-2†	176.5	0.5156	mg/L	0.00981	0.5156	mg/L	0.00981	1.90%
Silver,7440-22-4†	102682.6	0.5216	mg/L	0.01792	0.5216	mg/L	0.01792	3.44%
Strontium,7440-24-6†	45072.6	0.7593	mg/L	0.03291	0.7593	mg/L	0.03291	4.33%
Thallium,7440-28-0†	108.8	0.4984	mg/L	0.03056	0.4984	mg/L	0.03056	6.13%
Tin,7440-31-5†	276.2	0.5026	mg/L	0.01722	0.5026	mg/L	0.01722	3.43%
Titanium,7440-32-6†	179024.7	0.5057	mg/L	0.01546	0.5057	mg/L	0.01546	3.06%
Vanadium,7440-62-2†	87021.9	0.5175	mg/L	0.01813	0.5175	mg/L	0.01813	3.50%
Zinc,7440-66-6†	16650.5	0.7229	mg/L	0.02509	0.7229	mg/L	0.02509	3.47%
Zirconium,7440-67-7†	1044.4	0.0023	mg/L	0.00070	0.0023	mg/L	0.00070	30.40%

Sequence No.: 30
Sample ID: 251072
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 34
Date Collected: 6/20/2005 7:56:54 PM
Data Type: Reprocessed on 6/21/2005 8:26:01 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251072

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1221559.2	108.16	%	1.198				1.11%
Yttrium,7440-65-5R	2248422.6	108.18	%	1.199				1.11%
Scandium	1809311.1	108.87	%	1.243				1.14%
Ar 420.069	1266383.2	103.74	%	0.222				0.21%
Aluminum,7429-90-5†	43405.2	4.8559	mg/L	0.08617	4.8559	mg/L	0.08617	1.77%
Antimony,7440-36-0†	145.5	0.4461	mg/L	0.00874	0.4461	mg/L	0.00874	1.96%
Arsenic,7440-38-2†	121.7	0.4739	mg/L	0.00659	0.4739	mg/L	0.00659	1.39%
Barium,7440-39-3†	11316.4	0.5386	mg/L	0.00839	0.5386	mg/L	0.00839	1.56%
Beryllium,7440-41-7†	4535506.5	0.4758	mg/L	0.00930	0.4758	mg/L	0.00930	1.95%

Boron,7440-42-8†	167635.9	2.6305 mg/L	0.04186	2.6305 mg/L	0.04186	1.59%
Calcium,7440-70-2†	660548.6	10.296 mg/L	0.2015	10.296 mg/L	0.2015	1.96%
Cadmium,7440-43-9†	2823.2	0.4876 mg/L	0.00800	0.4876 mg/L	0.00800	1.64%
Chromium,7440-47-3†	56378.1	0.4950 mg/L	0.00700	0.4950 mg/L	0.00700	1.41%
Cobalt,7440-48-4†	2379.6	0.4807 mg/L	0.00889	0.4807 mg/L	0.00889	1.85%
Copper,7440-50-8†	50160.8	0.4902 mg/L	0.00827	0.4902 mg/L	0.00827	1.69%
Iron,7439-89-6†	324157.7	42.960 mg/L	0.6172	42.960 mg/L	0.6172	1.44%
Lead,7439-92-1†	676.7	0.5066 mg/L	0.00525	0.5066 mg/L	0.00525	1.04%
Lithium,7439-93-2†	1304.0	0.8003 mg/L	0.07455	0.8003 mg/L	0.07455	9.32%
Magnesium,7439-95-4†	71347.9	5.0258 mg/L	0.07405	5.0258 mg/L	0.07405	1.47%
Manganese,7439-96-5†	68878.7	0.5018 mg/L	0.00802	0.5018 mg/L	0.00802	1.60%
Molybdenum,7439-98-7†	1498.0	0.4855 mg/L	0.01254	0.4855 mg/L	0.01254	2.58%
Nickel,7440-02-0†	5949.3	0.4866 mg/L	0.00952	0.4866 mg/L	0.00952	1.96%
Selenium,7782-49-2†	171.2	0.5004 mg/L	0.01555	0.5004 mg/L	0.01555	3.11%
Silver,7440-22-4†	95261.4	0.4840 mg/L	0.00674	0.4840 mg/L	0.00674	1.39%
Strontium,7440-24-6†	41941.7	0.7066 mg/L	0.01223	0.7066 mg/L	0.01223	1.73%
Thallium,7440-28-0†	104.9	0.4805 mg/L	0.00626	0.4805 mg/L	0.00626	1.30%
Tin,7440-31-5†	262.8	0.4784 mg/L	0.00468	0.4784 mg/L	0.00468	0.98%
Titanium,7440-32-6†	169615.0	0.4791 mg/L	0.00928	0.4791 mg/L	0.00928	1.94%
Vanadium,7440-62-2†	81106.7	0.4823 mg/L	0.00669	0.4823 mg/L	0.00669	1.39%
Zinc,7440-66-6†	15839.3	0.6876 mg/L	0.00892	0.6876 mg/L	0.00892	1.30%
Zirconium,7440-67-7†	204.1	-0.0003 mg/L	0.00032	-0.0003 mg/L	0.00032	127.79%

Sequence No.: 31
Sample ID: 251071
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 35
Date Collected: 6/20/2005 8:02:26 PM
Data Type: Reprocessed on 6/21/2005 8:26:03 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251071

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1166435.2	103.28	%	0.986				0.95%
Yttrium,7440-65-5R	2147071.4	103.31	%	1.007				0.97%
Scandium	1728506.3	104.01	%	0.983				0.95%
Ar 420.069	1277651.3	104.66	%	0.493				0.47%
Aluminum,7429-90-5†	-660.6	-0.0733	mg/L	0.01308	-0.3664	mg/L	0.06541	17.85%
Antimony,7440-36-0†	0.4	0.0007	mg/L	0.00423	0.0033	mg/L	0.02116	636.26%
Arsenic,7440-38-2†	2.4	0.0097	mg/L	0.02141	0.0483	mg/L	0.10707	221.79%
Barium,7440-39-3†	266.6	0.0126	mg/L	0.00035	0.0629	mg/L	0.00177	2.81%
Beryllium,7440-41-7†	-11058.7	-0.0012	mg/L	0.00027	-0.0058	mg/L	0.00137	23.51%
Boron,7440-42-8†	4706.6	0.0751	mg/L	0.00334	0.3753	mg/L	0.01670	4.45%
Calcium,7440-70-2†	75503.3	1.1764	mg/L	0.01620	5.8818	mg/L	0.08099	1.38%
Cadmium,7440-43-9†	2.0	0.0004	mg/L	0.00043	0.0020	mg/L	0.00217	110.53%
Chromium,7440-47-3†	-10.5	0.0029	mg/L	0.00056	0.0146	mg/L	0.00280	19.18%
Cobalt,7440-48-4†	2.5	0.0001	mg/L	0.00084	0.0003	mg/L	0.00418	>999.9%
Copper,7440-50-8†	351.6	0.0033	mg/L	0.00073	0.0165	mg/L	0.00367	22.28%
Iron,7439-89-6†	60905.0	8.0726	mg/L	0.05739	40.363	mg/L	0.2870	0.71%
Lead,7439-92-1†	3.3	0.0022	mg/L	0.00816	0.0110	mg/L	0.04080	372.26%
Lithium,7439-93-2†	69.0	0.0228	mg/L	0.03252	0.1139	mg/L	0.16261	142.81%
Magnesium,7439-95-4†	819.5	0.0621	mg/L	0.00328	0.3106	mg/L	0.01638	5.27%
Manganese,7439-96-5†	954.6	0.0073	mg/L	0.00018	0.0367	mg/L	0.00089	2.43%
Molybdenum,7439-98-7†	3.2	0.0011	mg/L	0.00167	0.0056	mg/L	0.00837	148.82%
Nickel,7440-02-0†	39.2	0.0030	mg/L	0.00061	0.0151	mg/L	0.00307	20.37%
Selenium,7782-49-2†	3.2	0.0126	mg/L	0.01555	0.0628	mg/L	0.07776	123.89%
Silver,7440-22-4†	-251.1	-0.0011	mg/L	0.00027	-0.0057	mg/L	0.00134	23.66%
Strontium,7440-24-6†	371.4	0.0064	mg/L	0.00188	0.0320	mg/L	0.00939	29.39%
Thallium,7440-28-0†	0.5	0.0020	mg/L	0.01897	0.0098	mg/L	0.09484	969.51%
Tin,7440-31-5†	2.5	0.0064	mg/L	0.00505	0.0318	mg/L	0.02524	79.39%
Titanium,7440-32-6†	6.4	0.0000	mg/L	0.00035	0.0001	mg/L	0.00177	>999.9%
Vanadium,7440-62-2†	30.4	-0.0002	mg/L	0.00031	-0.0010	mg/L	0.00155	153.21%
Zinc,7440-66-6†	1046.7	0.0449	mg/L	0.00111	0.2244	mg/L	0.00553	2.46%
Zirconium,7440-67-7†	-586.7	-0.0019	mg/L	0.00033	-0.0095	mg/L	0.00164	17.34%

Sequence No.: 32
Sample ID: 20506171432
Analyst:
Logged In Analyst (Original) : met

Autosampler Location: 36
Date Collected: 6/20/2005 8:07:49 PM
Data Type: Reprocessed on 6/21/2005 8:26:04 AM

Initial Sample Wt:
Dilution: 1X

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171432

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1173211.2	103.88	%	2.883				2.78%
Yttrium,7440-65-5R	2160247.0	103.94	%	2.886				2.78%
Scandium	1739289.4	104.66	%	2.903				2.77%
Ar 420.069	1282367.4	105.05	%	0.290				0.28%
Aluminum,7429-90-5†	-743.0	-0.0913	mg/L	0.02557	-0.0913	mg/L	0.02557	28.00%
Antimony,7440-36-0†	-1.5	-0.0040	mg/L	0.01593	-0.0040	mg/L	0.01593	402.98%
Arsenic,7440-38-2†	-0.5	-0.0008	mg/L	0.01626	-0.0008	mg/L	0.01626	>999.9%
Barium,7440-39-3†	1482.7	0.0684	mg/L	0.00185	0.0684	mg/L	0.00185	2.70%
Beryllium,7440-41-7†	-12808.1	-0.0013	mg/L	0.00062	-0.0013	mg/L	0.00062	45.77%
Boron,7440-42-8†	1431.9	0.0237	mg/L	0.00211	0.0237	mg/L	0.00211	8.93%
Calcium,7440-70-2†	3246496.3	50.636	mg/L	1.2519	50.636	mg/L	1.2519	2.47%
Cadmium,7440-43-9†	2.1	0.0003	mg/L	0.00163	0.0003	mg/L	0.00163	552.43%
Chromium,7440-47-3†	-152.8	-0.0006	mg/L	0.00031	-0.0006	mg/L	0.00031	50.81%
Cobalt,7440-48-4†	111.3	0.0226	mg/L	0.00085	0.0226	mg/L	0.00085	3.75%
Copper,7440-50-8†	-126.1	-0.0009	mg/L	0.00087	-0.0009	mg/L	0.00087	95.60%
Iron,7439-89-6†	6751.1	0.8950	mg/L	0.02997	0.8950	mg/L	0.02997	3.35%
Lead,7439-92-1†	-3.9	-0.0029	mg/L	0.00428	-0.0029	mg/L	0.00428	148.58%
Lithium,7439-93-2†	30.8	0.0182	mg/L	0.04480	0.0182	mg/L	0.04480	246.44%
Magnesium,7439-95-4†	32229.2	2.2545	mg/L	0.06918	2.2545	mg/L	0.06918	3.07%
Manganese,7439-96-5†	34048.5	0.2471	mg/L	0.00778	0.2471	mg/L	0.00778	3.15%
Molybdenum,7439-98-7†	-5.4	-0.0011	mg/L	0.00096	-0.0011	mg/L	0.00096	89.55%
Nickel,7440-02-0†	447.2	0.0366	mg/L	0.00062	0.0366	mg/L	0.00062	1.71%
Selenium,7782-49-2†	4.5	0.0116	mg/L	0.01905	0.0116	mg/L	0.01905	164.47%
Silver,7440-22-4†	-720.3	-0.0002	mg/L	0.00028	-0.0002	mg/L	0.00028	152.62%
Strontium,7440-24-6†	10488.1	0.1728	mg/L	0.00646	0.1728	mg/L	0.00646	3.73%
Thallium,7440-28-0†	6.9	0.0335	mg/L	0.02668	0.0335	mg/L	0.02668	79.67%
Tin,7440-31-5†	-12.1	-0.0121	mg/L	0.00584	-0.0121	mg/L	0.00584	48.23%
Titanium,7440-32-6†	148.9	0.0004	mg/L	0.00061	0.0004	mg/L	0.00061	145.08%
Vanadium,7440-62-2†	49.8	0.0003	mg/L	0.00050	0.0003	mg/L	0.00050	185.00%
Zinc,7440-66-6†	595.2	0.0174	mg/L	0.00081	0.0174	mg/L	0.00081	4.65%
Zirconium,7440-67-7†	-650.5	-0.0019	mg/L	0.00059	-0.0019	mg/L	0.00059	31.54%

Sequence No.: 33
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 8:12:48 PM
Data Type: Reprocessed on 6/21/2005 8:26:05 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1172231.0	103.79	%	0.484				0.47%
Yttrium,7440-65-5R	2157425.3	103.81	%	0.499				0.48%
Scandium	1740417.6	104.72	%	0.456				0.44%
Ar 420.069	1275253.3	104.47	%	0.750				0.72%
Aluminum,7429-90-5†	42672.0	4.7706	mg/L	0.07224	4.7706	mg/L	0.07224	1.51%
QC value within limits for Aluminum,7429-90-5 Recovery = 95.41%								
Antimony,7440-36-0†	148.8	0.4598	mg/L	0.02378	0.4598	mg/L	0.02378	5.17%
QC value within limits for Antimony,7440-36-0 Recovery = 91.95%								
Arsenic,7440-38-2†	124.4	0.4823	mg/L	0.01290	0.4823	mg/L	0.01290	2.67%
QC value within limits for Arsenic,7440-38-2 Recovery = 96.46%								
Barium,7440-39-3†	10260.7	0.4888	mg/L	0.00746	0.4888	mg/L	0.00746	1.53%
QC value within limits for Barium,7440-39-3 Recovery = 97.77%								
Beryllium,7440-41-7†	4620426.7	0.4847	mg/L	0.00450	0.4847	mg/L	0.00450	0.93%
QC value within limits for Beryllium,7440-41-7 Recovery = 96.94%								
Boron,7440-42-8†	153357.2	2.4004	mg/L	0.03636	2.4004	mg/L	0.03636	1.51%
QC value within limits for Boron,7440-42-8 Recovery = 96.01%								
Calcium,7440-70-2†	311660.8	4.8604	mg/L	0.07183	4.8604	mg/L	0.07183	1.48%
QC value within limits for Calcium,7440-70-2 Recovery = 97.21%								
Cadmium,7440-43-9†	2828.6	0.4883	mg/L	0.00173	0.4883	mg/L	0.00173	0.35%
QC value within limits for Cadmium,7440-43-9 Recovery = 97.65%								
Chromium,7440-47-3†	57299.4	0.4887	mg/L	0.00749	0.4887	mg/L	0.00749	1.53%

QC value within limits for Chromium,7440-47-3 Recovery = 97.73%
Cobalt,7440-48-4† 2391.2 0.4852 mg/L 0.00214 0.4852 mg/L 0.00214 0.44%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.04%
Copper,7440-50-8† 48079.2 0.4705 mg/L 0.00649 0.4705 mg/L 0.00649 1.38%
QC value within limits for Copper,7440-50-8 Recovery = 94.10%
Iron,7439-89-6† 36845.6 4.8790 mg/L 0.07257 4.8790 mg/L 0.07257 1.49%
QC value within limits for Iron,7439-89-6 Recovery = 97.58%
Lead,7439-92-1† 648.3 0.4865 mg/L 0.00870 0.4865 mg/L 0.00870 1.79%
QC value within limits for Lead,7439-92-1 Recovery = 97.31%
Lithium,7439-93-2† 570.0 0.3963 mg/L 0.05544 0.3963 mg/L 0.05544 13.99%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 79.26%
Magnesium,7439-95-4† 69683.6 4.8871 mg/L 0.06429 4.8871 mg/L 0.06429 1.32%
QC value within limits for Magnesium,7439-95-4 Recovery = 97.74%
Manganese,7439-96-5† 66575.3 0.4832 mg/L 0.00747 0.4832 mg/L 0.00747 1.55%
QC value within limits for Manganese,7439-96-5 Recovery = 96.63%
Molybdenum,7439-98-7† 1509.3 0.4888 mg/L 0.00168 0.4888 mg/L 0.00168 0.34%
QC value within limits for Molybdenum,7439-98-7 Recovery = 97.75%
Nickel,7440-02-0† 5934.8 0.4863 mg/L 0.00589 0.4863 mg/L 0.00589 1.21%
QC value within limits for Nickel,7440-02-0 Recovery = 97.26%
Selenium,7782-49-2† 169.4 0.4781 mg/L 0.00883 0.4781 mg/L 0.00883 1.85%
QC value within limits for Selenium,7782-49-2 Recovery = 95.62%
Silver,7440-22-4† 95422.4 0.4842 mg/L 0.00736 0.4842 mg/L 0.00736 1.52%
QC value within limits for Silver,7440-22-4 Recovery = 96.83%
Strontium,7440-24-6† 26715.1 0.4496 mg/L 0.00551 0.4496 mg/L 0.00551 1.23%
QC value within limits for Strontium,7440-24-6 Recovery = 89.91%
Thallium,7440-28-0† 107.4 0.4933 mg/L 0.02687 0.4933 mg/L 0.02687 5.45%
QC value within limits for Thallium,7440-28-0 Recovery = 98.67%
Tin,7440-31-5† 272.9 0.4869 mg/L 0.00139 0.4869 mg/L 0.00139 0.29%
QC value within limits for Tin,7440-31-5 Recovery = 97.38%
Titanium,7440-32-6† 169840.3 0.4798 mg/L 0.00323 0.4798 mg/L 0.00323 0.67%
QC value within limits for Titanium,7440-32-6 Recovery = 95.95%
Vanadium,7440-62-2† 81536.3 0.4867 mg/L 0.00633 0.4867 mg/L 0.00633 1.30%
QC value within limits for Vanadium,7440-62-2 Recovery = 97.33%
Zinc,7440-66-6† 11146.1 0.4865 mg/L 0.00677 0.4865 mg/L 0.00677 1.39%
QC value within limits for Zinc,7440-66-6 Recovery = 97.30%
Zirconium,7440-67-7† 151197.3 0.4650 mg/L 0.01710 0.4650 mg/L 0.01710 3.68%
QC value within limits for Zirconium,7440-67-7 Recovery = 92.99%
QC Failed. Continue with analysis.

Sequence No.: 34
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 8:17:55 PM
Data Type: Reprocessed on 6/21/2005 8:26:06 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1139511.0	100.89	%	0.926				0.92%
Yttrium,7440-65-5R	2096736.4	100.89	%	0.920				0.91%
Scandium	1674472.0	100.76	%	0.935				0.93%
Ar 420.069	1268200.9	103.89	%	0.809				0.78%
Aluminum,7429-90-5†	-504.5	-0.0565	mg/L	0.01323	-0.0565	mg/L	0.01323	23.43%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	-1.2	-0.0037	mg/L	0.01831	-0.0037	mg/L	0.01831	499.91%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	5.9	0.0224	mg/L	0.00951	0.0224	mg/L	0.00951	42.40%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-15.7	-0.0007	mg/L	0.00035	-0.0007	mg/L	0.00035	47.25%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-4764.6	-0.0005	mg/L	0.00019	-0.0005	mg/L	0.00019	37.51%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1634.4	0.0256	mg/L	0.00196	0.0256	mg/L	0.00196	7.68%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	308.7	0.0048	mg/L	0.00218	0.0048	mg/L	0.00218	45.26%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	-1.8	-0.0003	mg/L	0.00053	-0.0003	mg/L	0.00053	168.34%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	-38.5	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	50.01%

QC value within limits for Chromium,7440-47-3 Recovery = Not calculated
Cobalt,7440-48-4† -3.6 -0.0007 mg/L 0.00091 -0.0007 mg/L 0.00091 124.90%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated
Copper,7440-50-8† 234.8 0.0023 mg/L 0.00072 0.0023 mg/L 0.00072 31.55%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated
Iron,7439-89-6† 43.4 0.0058 mg/L 0.00239 0.0058 mg/L 0.00239 41.48%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated
Lead,7439-92-1† -6.7 -0.0050 mg/L 0.00616 -0.0050 mg/L 0.00616 122.96%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated
Lithium,7439-93-2† -14.7 -0.0107 mg/L 0.02710 -0.0107 mg/L 0.02710 252.69%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated
Magnesium,7439-95-4† 33.0 0.0023 mg/L 0.00669 0.0023 mg/L 0.00669 288.20%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated
Manganese,7439-96-5† -7.2 -0.0001 mg/L 0.00011 -0.0001 mg/L 0.00011 215.46%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated
Molybdenum,7439-98-7† 0.3 0.0001 mg/L 0.00380 0.0001 mg/L 0.00380 >999.9%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated
Nickel,7440-02-0† -4.3 -0.0004 mg/L 0.00018 -0.0004 mg/L 0.00018 49.83%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated
Selenium,7782-49-2† 6.6 0.0187 mg/L 0.01072 0.0187 mg/L 0.01072 57.40%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated
Silver,7440-22-4† -66.8 -0.0003 mg/L 0.00073 -0.0003 mg/L 0.00073 215.78%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated
Strontium,7440-24-6† 24.6 0.0004 mg/L 0.00094 0.0004 mg/L 0.00094 226.42%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated
Thallium,7440-28-0† 2.5 0.0114 mg/L 0.02506 0.0114 mg/L 0.02506 219.68%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated
Tin,7440-31-5† 2.2 0.0039 mg/L 0.00386 0.0039 mg/L 0.00386 98.97%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated
Titanium,7440-32-6† 58.2 0.0002 mg/L 0.00018 0.0002 mg/L 0.00018 109.50%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated
Vanadium,7440-62-2† 28.3 0.0002 mg/L 0.00015 0.0002 mg/L 0.00015 92.40%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated
Zinc,7440-66-6† 9.9 0.0004 mg/L 0.00031 0.0004 mg/L 0.00031 71.35%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated
Zirconium,7440-67-7† 44.0 0.0001 mg/L 0.00067 0.0001 mg/L 0.00067 495.29%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 35
Sample ID: 20506171433
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 37
Date Collected: 6/20/2005 8:23:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:07 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171433

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1197745.9	106.05	%	0.907				0.86%
Yttrium,7440-65-5R	2206087.5	106.15	%	0.877				0.83%
Scandium	1774456.3	106.77	%	0.857				0.80%
Ar 420.069	1268285.1	103.89	%	0.640				0.62%
Aluminum,7429-90-5†	-624.1	-0.0685	mg/L	0.00806	-0.0685	mg/L	0.00806	11.77%
Antimony,7440-36-0†	-0.7	-0.0044	mg/L	0.00978	-0.0044	mg/L	0.00978	220.85%
Arsenic,7440-38-2†	6.4	0.0261	mg/L	0.02236	0.0261	mg/L	0.02236	85.75%
Barium,7440-39-3†	5386.9	0.2563	mg/L	0.00376	0.2563	mg/L	0.00376	1.47%
Beryllium,7440-41-7†	-15168.0	-0.0016	mg/L	0.00014	-0.0016	mg/L	0.00014	8.89%
Boron,7440-42-8†	10236.2	0.1644	mg/L	0.00276	0.1644	mg/L	0.00276	1.68%
Calcium,7440-70-2†	345323.1	5.3822	mg/L	0.05786	5.3822	mg/L	0.05786	1.08%
Cadmium,7440-43-9†	-0.1	0.0001	mg/L	0.00049	0.0001	mg/L	0.00049	491.30%
Chromium,7440-47-3†	-187.8	0.0070	mg/L	0.00027	0.0070	mg/L	0.00027	3.78%
Cobalt,7440-48-4†	38.5	0.0065	mg/L	0.00086	0.0065	mg/L	0.00086	13.21%
Copper,7440-50-8†	338.2	0.0029	mg/L	0.00095	0.0029	mg/L	0.00095	33.02%
Iron,7439-89-6†	177246.9	23.493	mg/L	0.2596	23.493	mg/L	0.2596	1.11%
Lead,7439-92-1†	-0.5	-0.0012	mg/L	0.00467	-0.0012	mg/L	0.00467	391.53%
Lithium,7439-93-2†	328.0	0.1586	mg/L	0.01614	0.1586	mg/L	0.01614	10.18%
Magnesium,7439-95-4†	7328.0	0.5264	mg/L	0.00395	0.5264	mg/L	0.00395	0.75%
Manganese,7439-96-5†	51428.9	0.3744	mg/L	0.00417	0.3744	mg/L	0.00417	1.11%
Molybdenum,7439-98-7†	-3.1	-0.0006	mg/L	0.00137	-0.0006	mg/L	0.00137	212.34%

Nickel,7440-02-0†	288.8	0.0231 mg/L	0.00059	0.0231 mg/L	0.00059	2.54%
Selenium,7782-49-2†	2.6	0.0175 mg/L	0.01517	0.0175 mg/L	0.01517	86.74%
Silver,7440-22-4†	-466.0	-0.0019 mg/L	0.00058	-0.0019 mg/L	0.00058	30.73%
Strontium,7440-24-6†	3520.4	0.0595 mg/L	0.00212	0.0595 mg/L	0.00212	3.57%
Thallium,7440-28-0†	-3.0	-0.0138 mg/L	0.03298	-0.0138 mg/L	0.03298	238.29%
Tin,7440-31-5†	-5.4	-0.0033 mg/L	0.00283	-0.0033 mg/L	0.00283	84.99%
Titanium,7440-32-6†	325.6	0.0009 mg/L	0.00034	0.0009 mg/L	0.00034	36.91%
Vanadium,7440-62-2†	5.7	-0.0011 mg/L	0.00032	-0.0011 mg/L	0.00032	30.26%
Zinc,7440-66-6†	4267.3	0.1839 mg/L	0.00121	0.1839 mg/L	0.00121	0.66%
Zirconium,7440-67-7†	-381.0	-0.0014 mg/L	0.00008	-0.0014 mg/L	0.00008	5.57%

Sequence No.: 36
Sample ID: 20506171434
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 6/20/2005 8:28:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:08 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171434

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1207512.7	106.91	%	1.478				1.38%
Yttrium,7440-65-5R	2223771.6	107.00	%	1.509				1.41%
Scandium	1788182.7	107.60	%	1.448				1.35%
Ar 420.069	1258724.8	103.11	%	0.376				0.36%
Aluminum,7429-90-5†	-670.3	-0.0721	mg/L	0.01912	-0.0721	mg/L	0.01912	26.52%
Antimony,7440-36-0†	1.6	0.0018	mg/L	0.01221	0.0018	mg/L	0.01221	676.97%
Arsenic,7440-38-2†	1.7	0.0085	mg/L	0.01162	0.0085	mg/L	0.01162	136.72%
Barium,7440-39-3†	1136.6	0.0536	mg/L	0.00163	0.0536	mg/L	0.00163	3.05%
Beryllium,7440-41-7†	-16077.7	-0.0017	mg/L	0.00020	-0.0017	mg/L	0.00020	11.85%
Boron,7440-42-8†	13817.1	0.2227	mg/L	0.00690	0.2227	mg/L	0.00690	3.10%
Calcium,7440-70-2†	395751.8	6.1667	mg/L	0.06253	6.1667	mg/L	0.06253	1.01%
Cadmium,7440-43-9†	-3.2	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	56.33%
Chromium,7440-47-3†	-208.7	0.0120	mg/L	0.00039	0.0120	mg/L	0.00039	3.24%
Cobalt,7440-48-4†	10.1	0.0000	mg/L	0.00102	0.0000	mg/L	0.00102	>999.9%
Copper,7440-50-8†	478.6	0.0040	mg/L	0.00108	0.0040	mg/L	0.00108	26.83%
Iron,7439-89-6†	278492.7	36.912	mg/L	0.4087	36.912	mg/L	0.4087	1.11%
Lead,7439-92-1†	-3.0	-0.0034	mg/L	0.00265	-0.0034	mg/L	0.00265	77.47%
Lithium,7439-93-2†	481.5	0.2245	mg/L	0.03462	0.2245	mg/L	0.03462	15.42%
Magnesium,7439-95-4†	9088.7	0.6585	mg/L	0.01744	0.6585	mg/L	0.01744	2.65%
Manganese,7439-96-5†	6202.6	0.0469	mg/L	0.00127	0.0469	mg/L	0.00127	2.71%
Molybdenum,7439-98-7†	2.4	0.0012	mg/L	0.00085	0.0012	mg/L	0.00085	70.02%
Nickel,7440-02-0†	282.9	0.0223	mg/L	0.00115	0.0223	mg/L	0.00115	5.14%
Selenium,7782-49-2†	3.7	0.0269	mg/L	0.02232	0.0269	mg/L	0.02232	83.12%
Silver,7440-22-4†	-707.8	-0.0029	mg/L	0.00060	-0.0029	mg/L	0.00060	20.61%
Strontium,7440-24-6†	2134.8	0.0365	mg/L	0.00076	0.0365	mg/L	0.00076	2.07%
Thallium,7440-28-0†	-1.3	-0.0074	mg/L	0.01749	-0.0074	mg/L	0.01749	237.42%
Tin,7440-31-5†	-6.1	-0.0016	mg/L	0.00824	-0.0016	mg/L	0.00824	528.55%
Titanium,7440-32-6†	575.2	0.0016	mg/L	0.00020	0.0016	mg/L	0.00020	12.41%
Vanadium,7440-62-2†	73.8	-0.0013	mg/L	0.00004	-0.0013	mg/L	0.00004	2.69%
Zinc,7440-66-6†	686.3	0.0246	mg/L	0.00020	0.0246	mg/L	0.00020	0.82%
Zirconium,7440-67-7†	-281.5	-0.0013	mg/L	0.00026	-0.0013	mg/L	0.00026	20.13%

Sequence No.: 37
Sample ID: 20506171435
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 6/20/2005 8:33:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:10 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171435

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1205951.2	106.78	%	1.802				1.69%
Yttrium,7440-65-5R	2220973.9	106.86	%	1.807				1.69%
Scandium	1786477.5	107.49	%	1.853				1.72%
Ar 420.069	1268247.6	103.89	%	0.304				0.29%
Aluminum,7429-90-5†	-498.5	-0.0558	mg/L	0.01314	-0.0558	mg/L	0.01314	23.56%

Antimony,7440-36-0†	-0.5	-0.0032 mg/L	0.00924	-0.0032 mg/L	0.00924	285.50%
Arsenic,7440-38-2†	4.4	0.0184 mg/L	0.01068	0.0184 mg/L	0.01068	57.94%
Barium,7440-39-3†	2757.4	0.1307 mg/L	0.00199	0.1307 mg/L	0.00199	1.52%
Beryllium,7440-41-7†	-17455.7	-0.0018 mg/L	0.00040	-0.0018 mg/L	0.00040	21.68%
Boron,7440-42-8†	8609.7	0.1386 mg/L	0.00218	0.1386 mg/L	0.00218	1.58%
Calcium,7440-70-2†	834139.0	13.007 mg/L	0.4304	13.007 mg/L	0.4304	3.31%
Cadmium,7440-43-9†	-3.5	-0.0005 mg/L	0.00080	-0.0005 mg/L	0.00080	160.46%
Chromium,7440-47-3†	-42.8	0.0074 mg/L	0.00069	0.0074 mg/L	0.00069	9.24%
Cobalt,7440-48-4†	47.1	0.0084 mg/L	0.00223	0.0084 mg/L	0.00223	26.51%
Copper,7440-50-8†	195.2	0.0016 mg/L	0.00060	0.0016 mg/L	0.00060	37.38%
Iron,7439-89-6†	156833.5	20.787 mg/L	0.6868	20.787 mg/L	0.6868	3.30%
Lead,7439-92-1†	3.7	0.0021 mg/L	0.00270	0.0021 mg/L	0.00270	127.67%
Lithium,7439-93-2†	169.5	0.0524 mg/L	0.03607	0.0524 mg/L	0.03607	68.85%
Magnesium,7439-95-4†	23720.6	1.6740 mg/L	0.02893	1.6740 mg/L	0.02893	1.73%
Manganese,7439-96-5†	13661.2	0.1002 mg/L	0.00181	0.1002 mg/L	0.00181	1.81%
Molybdenum,7439-98-7†	-4.0	-0.0009 mg/L	0.00119	-0.0009 mg/L	0.00119	129.51%
Nickel,7440-02-0†	287.6	0.0230 mg/L	0.00055	0.0230 mg/L	0.00055	2.40%
Selenium,7782-49-2†	1.4	0.0131 mg/L	0.01342	0.0131 mg/L	0.01342	102.79%
Silver,7440-22-4†	-582.1	-0.0019 mg/L	0.00032	-0.0019 mg/L	0.00032	16.53%
Strontium,7440-24-6†	6379.2	0.1070 mg/L	0.00408	0.1070 mg/L	0.00408	3.81%
Thallium,7440-28-0†	0.4	0.0017 mg/L	0.03736	0.0017 mg/L	0.03736	>999.9%
Tin,7440-31-5†	-7.5	-0.0062 mg/L	0.00345	-0.0062 mg/L	0.00345	56.02%
Titanium,7440-32-6†	616.2	0.0017 mg/L	0.00030	0.0017 mg/L	0.00030	17.18%
Vanadium,7440-62-2†	132.5	-0.0002 mg/L	0.00021	-0.0002 mg/L	0.00021	107.34%
Zinc,7440-66-6†	1572.2	0.0644 mg/L	0.00097	0.0644 mg/L	0.00097	1.51%
Zirconium,7440-67-7†	-181.1	-0.0008 mg/L	0.00037	-0.0008 mg/L	0.00037	48.38%

Sequence No.: 38
Sample ID: 20506171437
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 6/20/2005 8:38:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:11 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171437

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1193405.5	105.67	%	1.977				1.87%
Yttrium,7440-65-5R	2196531.5	105.69	%	2.004				1.90%
Scandium	1768622.2	106.42	%	1.989				1.87%
Ar 420.069	1284473.2	105.22	%	0.839				0.80%
Aluminum,7429-90-5†	-816.8	-0.0959	mg/L	0.02071	-0.0959	mg/L	0.02071	21.59%
Antimony,7440-36-0†	1.0	0.0035	mg/L	0.01144	0.0035	mg/L	0.01144	323.91%
Arsenic,7440-38-2†	6.6	0.0261	mg/L	0.00710	0.0261	mg/L	0.00710	27.19%
Barium,7440-39-3†	5082.1	0.2410	mg/L	0.00378	0.2410	mg/L	0.00378	1.57%
Beryllium,7440-41-7†	-16438.6	-0.0017	mg/L	0.00033	-0.0017	mg/L	0.00033	19.18%
Boron,7440-42-8†	2511.6	0.0399	mg/L	0.00055	0.0399	mg/L	0.00055	1.38%
Calcium,7440-70-2†	1711578.5	26.696	mg/L	0.4844	26.696	mg/L	0.4844	1.81%
Cadmium,7440-43-9†	121.0	0.0208	mg/L	0.00105	0.0208	mg/L	0.00105	5.02%
Chromium,7440-47-3†	-64.2	-0.0004	mg/L	0.00012	-0.0004	mg/L	0.00012	34.13%
Cobalt,7440-48-4†	18.6	0.0038	mg/L	0.00091	0.0038	mg/L	0.00091	24.12%
Copper,7440-50-8†	1784.0	0.0176	mg/L	0.00036	0.0176	mg/L	0.00036	2.03%
Iron,7439-89-6†	1507.0	0.1998	mg/L	0.00529	0.1998	mg/L	0.00529	2.65%
Lead,7439-92-1†	-4.6	-0.0035	mg/L	0.00197	-0.0035	mg/L	0.00197	56.17%
Lithium,7439-93-2†	-6.8	-0.0062	mg/L	0.05383	-0.0062	mg/L	0.05383	870.42%
Magnesium,7439-95-4†	16323.5	1.1411	mg/L	0.01951	1.1411	mg/L	0.01951	1.71%
Manganese,7439-96-5†	47710.9	0.3462	mg/L	0.00696	0.3462	mg/L	0.00696	2.01%
Molybdenum,7439-98-7†	-9.9	-0.0028	mg/L	0.00133	-0.0028	mg/L	0.00133	47.23%
Nickel,7440-02-0†	124.0	0.0101	mg/L	0.00100	0.0101	mg/L	0.00100	9.85%
Selenium,7782-49-2†	9.8	0.0267	mg/L	0.00554	0.0267	mg/L	0.00554	20.74%
Silver,7440-22-4†	-554.8	-0.0010	mg/L	0.00032	-0.0010	mg/L	0.00032	31.10%
Strontium,7440-24-6†	17976.1	0.3007	mg/L	0.00798	0.3007	mg/L	0.00798	2.65%
Thallium,7440-28-0†	2.9	0.0150	mg/L	0.03237	0.0150	mg/L	0.03237	215.84%
Tin,7440-31-5†	-7.2	-0.0079	mg/L	0.00697	-0.0079	mg/L	0.00697	88.27%
Titanium,7440-32-6†	-52.9	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	58.29%
Vanadium,7440-62-2†	103.4	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.43%
Zinc,7440-66-6†	27874.6	1.2226	mg/L	0.02234	1.2226	mg/L	0.02234	1.83%
Zirconium,7440-67-7†	-691.4	-0.0021	mg/L	0.00032	-0.0021	mg/L	0.00032	15.40%

Sequence No.: 39
Sample ID: 20506171438
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 41
Date Collected: 6/20/2005 8:43:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171438

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1222685.0	108.26	%	1.170				1.08%
Yttrium,7440-65-5R	2254367.6	108.47	%	1.181				1.09%
Scandium	1804981.0	108.61	%	1.080				0.99%
Ar 420.069	1262053.0	103.38	%	1.033				1.00%
Aluminum,7429-90-5†	-105.8	-0.0059	mg/L	0.01515	-0.0059	mg/L	0.01515	255.45%
Antimony,7440-36-0†	3.2	0.0033	mg/L	0.00669	0.0033	mg/L	0.00669	201.63%
Arsenic,7440-38-2†	6.8	0.0302	mg/L	0.01454	0.0302	mg/L	0.01454	48.16%
Barium,7440-39-3†	7077.6	0.3362	mg/L	0.00588	0.3362	mg/L	0.00588	1.75%
Beryllium,7440-41-7†	-16881.9	-0.0018	mg/L	0.00013	-0.0018	mg/L	0.00013	7.34%
Boron,7440-42-8†	25277.1	0.4083	mg/L	0.00534	0.4083	mg/L	0.00534	1.31%
Calcium,7440-70-2†	676669.8	10.543	mg/L	0.0967	10.543	mg/L	0.0967	0.92%
Cadmium,7440-43-9†	-11.7	-0.0016	mg/L	0.00054	-0.0016	mg/L	0.00054	34.02%
Chromium,7440-47-3†	548.1	0.0317	mg/L	0.00129	0.0317	mg/L	0.00129	4.07%
Cobalt,7440-48-4†	72.9	0.0108	mg/L	0.00040	0.0108	mg/L	0.00040	3.71%
Copper,7440-50-8†	307.9	0.0017	mg/L	0.00050	0.0017	mg/L	0.00050	29.29%
Iron,7439-89-6†	548797.1	72.739	mg/L	0.7472	72.739	mg/L	0.7472	1.03%
Lead,7439-92-1†	20.4	0.0130	mg/L	0.00213	0.0130	mg/L	0.00213	16.45%
Lithium,7439-93-2†	1049.8	0.5158	mg/L	0.00878	0.5158	mg/L	0.00878	1.70%
Magnesium,7439-95-4†	10440.0	0.7738	mg/L	0.00962	0.7738	mg/L	0.00962	1.24%
Manganese,7439-96-5†	21274.5	0.1581	mg/L	0.00246	0.1581	mg/L	0.00246	1.55%
Molybdenum,7439-98-7†	2.0	0.0015	mg/L	0.00173	0.0015	mg/L	0.00173	117.47%
Nickel,7440-02-0†	398.4	0.0309	mg/L	0.00064	0.0309	mg/L	0.00064	2.06%
Selenium,7782-49-2†	-2.8	0.0244	mg/L	0.01444	0.0244	mg/L	0.01444	59.13%
Silver,7440-22-4†	-1072.7	-0.0042	mg/L	0.00037	-0.0042	mg/L	0.00037	8.88%
Strontium,7440-24-6†	7207.4	0.1226	mg/L	0.00166	0.1226	mg/L	0.00166	1.36%
Thallium,7440-28-0†	4.9	0.0201	mg/L	0.06448	0.0201	mg/L	0.06448	321.03%
Tin,7440-31-5†	-8.8	0.0025	mg/L	0.00334	0.0025	mg/L	0.00334	134.32%
Titanium,7440-32-6†	879.2	0.0025	mg/L	0.00078	0.0025	mg/L	0.00078	31.38%
Vanadium,7440-62-2†	452.7	-0.0007	mg/L	0.00036	-0.0007	mg/L	0.00036	49.07%
Zinc,7440-66-6†	8020.7	0.3423	mg/L	0.00546	0.3423	mg/L	0.00546	1.59%
Zirconium,7440-67-7†	-52.2	-0.0010	mg/L	0.00017	-0.0010	mg/L	0.00017	17.19%

Sequence No.: 40
Sample ID: 20506171439
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 42
Date Collected: 6/20/2005 8:48:20 PM
Data Type: Reprocessed on 6/21/2005 8:26:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171439

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1209065.6	107.05	%	2.126				1.99%
Yttrium,7440-65-5R	2227572.1	107.18	%	2.119				1.98%
Scandium	1789194.9	107.66	%	2.101				1.95%
Ar 420.069	1260142.7	103.23	%	0.674				0.65%
Aluminum,7429-90-5†	-109.3	-0.0140	mg/L	0.02638	-0.0140	mg/L	0.02638	187.85%
Antimony,7440-36-0†	-1.3	-0.0062	mg/L	0.01891	-0.0062	mg/L	0.01891	302.71%
Arsenic,7440-38-2†	0.8	0.0051	mg/L	0.00784	0.0051	mg/L	0.00784	154.67%
Barium,7440-39-3†	5233.6	0.2479	mg/L	0.00714	0.2479	mg/L	0.00714	2.88%
Beryllium,7440-41-7†	-15741.5	-0.0017	mg/L	0.00043	-0.0017	mg/L	0.00043	25.76%
Boron,7440-42-8†	11230.1	0.1812	mg/L	0.00483	0.1812	mg/L	0.00483	2.67%
Calcium,7440-70-2†	1833389.8	28.591	mg/L	0.3740	28.591	mg/L	0.3740	1.31%
Cadmium,7440-43-9†	-1.7	-0.0002	mg/L	0.00041	-0.0002	mg/L	0.00041	234.64%
Chromium,7440-47-3†	124.9	0.0116	mg/L	0.00044	0.0116	mg/L	0.00044	3.79%
Cobalt,7440-48-4†	28.5	0.0042	mg/L	0.00068	0.0042	mg/L	0.00068	16.04%
Copper,7440-50-8†	135.4	0.0010	mg/L	0.00124	0.0010	mg/L	0.00124	125.97%
Iron,7439-89-6†	211111.5	27.981	mg/L	0.3805	27.981	mg/L	0.3805	1.36%
Lead,7439-92-1†	5.3	0.0031	mg/L	0.00753	0.0031	mg/L	0.00753	243.08%

Lithium,7439-93-2†	352.2	0.1603 mg/L	0.01127	0.1603 mg/L	0.01127	7.03%
Magnesium,7439-95-4†	8202.3	0.5882 mg/L	0.01399	0.5882 mg/L	0.01399	2.38%
Manganese,7439-96-5†	35931.3	0.2622 mg/L	0.00592	0.2622 mg/L	0.00592	2.26%
Molybdenum,7439-98-7†	-8.0	-0.0019 mg/L	0.00165	-0.0019 mg/L	0.00165	84.81%
Nickel,7440-02-0†	142.5	0.0110 mg/L	0.00075	0.0110 mg/L	0.00075	6.85%
Selenium,7782-49-2†	0.8	0.0137 mg/L	0.01455	0.0137 mg/L	0.01455	105.88%
Silver,7440-22-4†	-866.8	-0.0022 mg/L	0.00051	-0.0022 mg/L	0.00051	22.94%
Strontium,7440-24-6†	30257.1	0.5081 mg/L	0.00627	0.5081 mg/L	0.00627	1.23%
Thallium,7440-28-0†	-0.1	0.0000 mg/L	0.03879	0.0000 mg/L	0.03879	>999.9%
Tin,7440-31-5†	-11.5	-0.0091 mg/L	0.00271	-0.0091 mg/L	0.00271	29.85%
Titanium,7440-32-6†	185.0	0.0005 mg/L	0.00028	0.0005 mg/L	0.00028	52.83%
Vanadium,7440-62-2†	672.2	0.0027 mg/L	0.00065	0.0027 mg/L	0.00065	24.05%
Zinc,7440-66-6†	4208.9	0.1770 mg/L	0.00282	0.1770 mg/L	0.00282	1.59%
Zirconium,7440-67-7†	-276.6	-0.0011 mg/L	0.00052	-0.0011 mg/L	0.00052	47.30%

Sequence No.: 41
Sample ID: 20506171440
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 43
Date Collected: 6/20/2005 8:53:22 PM
Data Type: Reprocessed on 6/21/2005 8:26:15 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171440

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1223926.8	108.37	%	2.659				2.45%
Yttrium,7440-65-5R	2253897.0	108.45	%	2.669				2.46%
Scandium	1813920.3	109.15	%	2.702				2.48%
Ar 420.069	1267344.8	103.82	%	0.296				0.28%
Aluminum,7429-90-5†	-689.8	-0.0772	mg/L	0.03015	-0.0772	mg/L	0.03015	39.03%
Antimony,7440-36-0†	-1.7	-0.0073	mg/L	0.00755	-0.0073	mg/L	0.00755	103.16%
Arsenic,7440-38-2†	4.8	0.0201	mg/L	0.01964	0.0201	mg/L	0.01964	97.90%
Barium,7440-39-3†	3598.3	0.1707	mg/L	0.00453	0.1707	mg/L	0.00453	2.65%
Beryllium,7440-41-7†	-19056.6	-0.0020	mg/L	0.00052	-0.0020	mg/L	0.00052	25.70%
Boron,7440-42-8†	10686.4	0.1714	mg/L	0.00704	0.1714	mg/L	0.00704	4.11%
Calcium,7440-70-2†	916288.6	14.288	mg/L	0.5230	14.288	mg/L	0.5230	3.66%
Cadmium,7440-43-9†	23.1	0.0041	mg/L	0.00087	0.0041	mg/L	0.00087	21.14%
Chromium,7440-47-3†	68.4	0.0090	mg/L	0.00070	0.0090	mg/L	0.00070	7.77%
Cobalt,7440-48-4†	21.3	0.0031	mg/L	0.00189	0.0031	mg/L	0.00189	61.44%
Copper,7440-50-8†	651.5	0.0060	mg/L	0.00054	0.0060	mg/L	0.00054	8.86%
Iron,7439-89-6†	169747.6	22.499	mg/L	0.8177	22.499	mg/L	0.8177	3.63%
Lead,7439-92-1†	16.8	0.0119	mg/L	0.00284	0.0119	mg/L	0.00284	23.85%
Lithium,7439-93-2†	297.7	0.1397	mg/L	0.03518	0.1397	mg/L	0.03518	25.18%
Magnesium,7439-95-4†	10623.6	0.7564	mg/L	0.02760	0.7564	mg/L	0.02760	3.65%
Manganese,7439-96-5†	25041.2	0.1829	mg/L	0.00617	0.1829	mg/L	0.00617	3.38%
Molybdenum,7439-98-7†	121.4	0.0397	mg/L	0.00260	0.0397	mg/L	0.00260	6.56%
Nickel,7440-02-0†	100.6	0.0077	mg/L	0.00015	0.0077	mg/L	0.00015	2.00%
Selenium,7782-49-2†	6.7	0.0285	mg/L	0.00839	0.0285	mg/L	0.00839	29.45%
Silver,7440-22-4†	-658.1	-0.0022	mg/L	0.00043	-0.0022	mg/L	0.00043	19.49%
Strontium,7440-24-6†	7389.4	0.1240	mg/L	0.00395	0.1240	mg/L	0.00395	3.18%
Thallium,7440-28-0†	-3.0	-0.0137	mg/L	0.02386	-0.0137	mg/L	0.02386	174.25%
Tin,7440-31-5†	-5.8	-0.0027	mg/L	0.00696	-0.0027	mg/L	0.00696	260.59%
Titanium,7440-32-6†	402.4	0.0011	mg/L	0.00063	0.0011	mg/L	0.00063	55.83%
Vanadium,7440-62-2†	104.8	-0.0004	mg/L	0.00032	-0.0004	mg/L	0.00032	76.13%
Zinc,7440-66-6†	20870.7	0.9137	mg/L	0.03284	0.9137	mg/L	0.03284	3.59%
Zirconium,7440-67-7†	-382.7	-0.0014	mg/L	0.00027	-0.0014	mg/L	0.00027	19.03%

Sequence No.: 42
Sample ID: 20506171450
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 44
Date Collected: 6/20/2005 8:58:24 PM
Data Type: Reprocessed on 6/21/2005 8:26:17 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171450

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1211981.7	107.31	%	2.575				2.40%

Yttrium,7440-65-5R	2232744.7	107.43 %	2.583				2.40%
Scandium	1793756.8	107.93 %	2.567				2.38%
Ar 420.069	1275415.0	104.48 %	0.309				0.30%
Aluminum,7429-90-5†	1455.4	0.1608 mg/L	0.02942	0.1608 mg/L	0.02942	18.29%
Antimony,7440-36-0†	-0.2	-0.0008 mg/L	0.01926	-0.0008 mg/L	0.01926	>999.9%
Arsenic,7440-38-2†	4.8	0.0193 mg/L	0.00880	0.0193 mg/L	0.00880	45.63%
Barium,7440-39-3†	3566.0	0.1692 mg/L	0.00443	0.1692 mg/L	0.00443	2.62%
Beryllium,7440-41-7†	-18114.6	-0.0019 mg/L	0.00053	-0.0019 mg/L	0.00053	27.76%
Boron,7440-42-8†	4694.4	0.0747 mg/L	0.00290	0.0747 mg/L	0.00290	3.88%
Calcium,7440-70-2†	1018901.7	15.891 mg/L	0.3677	15.891 mg/L	0.3677	2.31%
Cadmium,7440-43-9†	74.1	0.0128 mg/L	0.00038	0.0128 mg/L	0.00038	2.95%
Chromium,7440-47-3†	674.6	0.0077 mg/L	0.00036	0.0077 mg/L	0.00036	4.67%
Cobalt,7440-48-4†	20.5	0.0039 mg/L	0.00059	0.0039 mg/L	0.00059	15.25%
Copper,7440-50-8†	3481.2	0.0341 mg/L	0.00043	0.0341 mg/L	0.00043	1.26%
Iron,7439-89-6†	38118.0	5.0524 mg/L	0.13664	5.0524 mg/L	0.13664	2.70%
Lead,7439-92-1†	9.8	0.0072 mg/L	0.00430	0.0072 mg/L	0.00430	59.93%
Lithium,7439-93-2†	1.1	-0.0167 mg/L	0.06208	-0.0167 mg/L	0.06208	372.18%
Magnesium,7439-95-4†	26796.6	1.8800 mg/L	0.05210	1.8800 mg/L	0.05210	2.77%
Manganese,7439-96-5†	11713.9	0.0852 mg/L	0.00221	0.0852 mg/L	0.00221	2.59%
Molybdenum,7439-98-7†	601.0	0.1949 mg/L	0.00523	0.1949 mg/L	0.00523	2.68%
Nickel,7440-02-0†	523.8	0.0428 mg/L	0.00160	0.0428 mg/L	0.00160	3.74%
Selenium,7782-49-2†	4.1	0.0133 mg/L	0.01983	0.0133 mg/L	0.01983	148.94%
Silver,7440-22-4†	-467.8	-0.0013 mg/L	0.00037	-0.0013 mg/L	0.00037	29.71%
Strontium,7440-24-6†	8332.2	0.1393 mg/L	0.00346	0.1393 mg/L	0.00346	2.49%
Thallium,7440-28-0†	3.7	0.0175 mg/L	0.02470	0.0175 mg/L	0.02470	141.45%
Tin,7440-31-5†	-7.1	-0.0085 mg/L	0.00538	-0.0085 mg/L	0.00538	63.61%
Titanium,7440-32-6†	2766.1	0.0078 mg/L	0.00073	0.0078 mg/L	0.00073	9.31%
Vanadium,7440-62-2†	-56.3	-0.0005 mg/L	0.00036	-0.0005 mg/L	0.00036	65.93%
Zinc,7440-66-6†	4735.1	0.2049 mg/L	0.00676	0.2049 mg/L	0.00676	3.30%
Zirconium,7440-67-7†	-559.2	-0.0017 mg/L	0.00052	-0.0017 mg/L	0.00052	29.95%

Sequence No.: 43
Sample ID: 20506171451
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 45
Date Collected: 6/20/2005 9:03:26 PM
Data Type: Reprocessed on 6/21/2005 8:26:18 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171451

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1213023.6	107.40	%	0.627				0.58%
Yttrium,7440-65-5R	2234195.0	107.50	%	0.611				0.57%
Scandium	1794649.0	107.99	%	0.552				0.51%
Ar 420.069	1269250.9	103.97	%	0.391				0.38%
Aluminum,7429-90-5†	-637.6	-0.0687	mg/L	0.00648	-0.0687	mg/L	0.00648	9.43%
Antimony,7440-36-0†	-1.1	-0.0073	mg/L	0.01760	-0.0073	mg/L	0.01760	239.57%
Arsenic,7440-38-2†	-1.4	-0.0028	mg/L	0.01395	-0.0028	mg/L	0.01395	502.88%
Barium,7440-39-3†	1697.5	0.0800	mg/L	0.00017	0.0800	mg/L	0.00017	0.21%
Beryllium,7440-41-7†	-16675.0	-0.0018	mg/L	0.00010	-0.0018	mg/L	0.00010	5.58%
Boron,7440-42-8†	14341.1	0.2325	mg/L	0.00294	0.2325	mg/L	0.00294	1.26%
Calcium,7440-70-2†	830564.1	12.947	mg/L	0.0313	12.947	mg/L	0.0313	0.24%
Cadmium,7440-43-9†	-6.2	-0.0008	mg/L	0.00170	-0.0008	mg/L	0.00170	208.76%
Chromium,7440-47-3†	-101.7	0.0160	mg/L	0.00067	0.0160	mg/L	0.00067	4.19%
Cobalt,7440-48-4†	20.5	0.0017	mg/L	0.00097	0.0017	mg/L	0.00097	58.21%
Copper,7440-50-8†	219.2	0.0014	mg/L	0.00099	0.0014	mg/L	0.00099	71.66%
Iron,7439-89-6†	340527.7	45.135	mg/L	0.1495	45.135	mg/L	0.1495	0.33%
Lead,7439-92-1†	2.2	0.0002	mg/L	0.00033	0.0002	mg/L	0.00033	189.08%
Lithium,7439-93-2†	624.4	0.3003	mg/L	0.04973	0.3003	mg/L	0.04973	16.56%
Magnesium,7439-95-4†	9048.7	0.6597	mg/L	0.01087	0.6597	mg/L	0.01087	1.65%
Manganese,7439-96-5†	16663.9	0.1232	mg/L	0.00122	0.1232	mg/L	0.00122	0.99%
Molybdenum,7439-98-7†	17.7	0.0063	mg/L	0.00157	0.0063	mg/L	0.00157	24.89%
Nickel,7440-02-0†	206.0	0.0158	mg/L	0.00055	0.0158	mg/L	0.00055	3.47%
Selenium,7782-49-2†	4.5	0.0324	mg/L	0.00536	0.0324	mg/L	0.00536	16.51%
Silver,7440-22-4†	-707.5	-0.0024	mg/L	0.00048	-0.0024	mg/L	0.00048	20.13%
Strontium,7440-24-6†	5400.7	0.0912	mg/L	0.00191	0.0912	mg/L	0.00191	2.09%
Thallium,7440-28-0†	1.1	0.0038	mg/L	0.02763	0.0038	mg/L	0.02763	726.89%
Tin,7440-31-5†	-9.2	-0.0040	mg/L	0.00615	-0.0040	mg/L	0.00615	152.30%
Titanium,7440-32-6†	54.8	0.0002	mg/L	0.00043	0.0002	mg/L	0.00043	278.31%
Vanadium,7440-62-2†	354.7	0.0000	mg/L	0.00048	0.0000	mg/L	0.00048	>999.9%

Zinc,7440-66-6†	2228.1	0.0903 mg/L	0.00085	0.0903 mg/L	0.00085	0.94%
Zirconium,7440-67-7†	-363.5	-0.0016 mg/L	0.00051	-0.0016 mg/L	0.00051	31.77%

Sequence No.: 44
Sample ID: 20506171452
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 46
Date Collected: 6/20/2005 9:08:30 PM
Data Type: Reprocessed on 6/21/2005 8:26:20 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171452

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1198638.8	106.13	%	1.376				1.30%
Yttrium,7440-65-5R	2206981.2	106.19	%	1.371				1.29%
Scandium	1776201.1	106.88	%	1.321				1.24%
Ar 420.069	1274066.2	104.37	%	0.821				0.79%
Aluminum,7429-90-5†	-455.6	-0.0506	mg/L	0.01550	-0.0506	mg/L	0.01550	30.65%
Antimony,7440-36-0†	1.2	0.0020	mg/L	0.01004	0.0020	mg/L	0.01004	497.58%
Arsenic,7440-38-2†	6.7	0.0270	mg/L	0.00617	0.0270	mg/L	0.00617	22.82%
Barium,7440-39-3†	5467.5	0.2598	mg/L	0.00643	0.2598	mg/L	0.00643	2.47%
Beryllium,7440-41-7†	-14045.7	-0.0015	mg/L	0.00022	-0.0015	mg/L	0.00022	14.92%
Boron,7440-42-8†	9008.2	0.1452	mg/L	0.00389	0.1452	mg/L	0.00389	2.68%
Calcium,7440-70-2†	783335.4	12.214	mg/L	0.1275	12.214	mg/L	0.1275	1.04%
Cadmium,7440-43-9†	-2.9	-0.0004	mg/L	0.00113	-0.0004	mg/L	0.00113	300.41%
Chromium,7440-47-3†	-175.5	0.0071	mg/L	0.00084	0.0071	mg/L	0.00084	11.79%
Cobalt,7440-48-4†	15.6	0.0019	mg/L	0.00035	0.0019	mg/L	0.00035	18.72%
Copper,7440-50-8†	274.6	0.0023	mg/L	0.00161	0.0023	mg/L	0.00161	68.80%
Iron,7439-89-6†	173969.5	23.059	mg/L	0.2229	23.059	mg/L	0.2229	0.97%
Lead,7439-92-1†	3.9	0.0022	mg/L	0.00377	0.0022	mg/L	0.00377	173.35%
Lithium,7439-93-2†	371.6	0.1915	mg/L	0.08765	0.1915	mg/L	0.08765	45.78%
Magnesium,7439-95-4†	6167.9	0.4447	mg/L	0.00845	0.4447	mg/L	0.00845	1.90%
Manganese,7439-96-5†	16158.8	0.1184	mg/L	0.00227	0.1184	mg/L	0.00227	1.91%
Molybdenum,7439-98-7†	-0.6	0.0002	mg/L	0.00243	0.0002	mg/L	0.00243	>999.9%
Nickel,7440-02-0†	179.8	0.0142	mg/L	0.00081	0.0142	mg/L	0.00081	5.72%
Selenium,7782-49-2†	6.0	0.0270	mg/L	0.00881	0.0270	mg/L	0.00881	32.67%
Silver,7440-22-4†	-525.4	-0.0017	mg/L	0.00041	-0.0017	mg/L	0.00041	24.57%
Strontium,7440-24-6†	7140.6	0.1200	mg/L	0.00276	0.1200	mg/L	0.00276	2.30%
Thallium,7440-28-0†	-2.9	-0.0136	mg/L	0.02729	-0.0136	mg/L	0.02729	200.96%
Tin,7440-31-5†	-4.9	-0.0014	mg/L	0.00477	-0.0014	mg/L	0.00477	332.88%
Titanium,7440-32-6†	212.1	0.0006	mg/L	0.00032	0.0006	mg/L	0.00032	53.44%
Vanadium,7440-62-2†	193.9	0.0001	mg/L	0.00043	0.0001	mg/L	0.00043	681.87%
Zinc,7440-66-6†	5410.5	0.2333	mg/L	0.00472	0.2333	mg/L	0.00472	2.02%
Zirconium,7440-67-7†	-434.9	-0.0016	mg/L	0.00037	-0.0016	mg/L	0.00037	23.53%

Sequence No.: 45
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 9:13:34 PM
Data Type: Reprocessed on 6/21/2005 8:26:21 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1161709.7	102.86	%	0.783				0.76%
Yttrium,7440-65-5R	2137756.3	102.86	%	0.790				0.77%
Scandium	1724691.1	103.78	%	0.833				0.80%
Ar 420.069	1282299.4	105.04	%	0.580				0.55%
Aluminum,7429-90-5†	42276.8	4.7265	mg/L	0.12676	4.7265	mg/L	0.12676	2.68%
QC value within limits for Aluminum,7429-90-5 Recovery = 94.53%								
Antimony,7440-36-0†	154.4	0.4775	mg/L	0.02281	0.4775	mg/L	0.02281	4.78%
QC value within limits for Antimony,7440-36-0 Recovery = 95.50%								
Arsenic,7440-38-2†	126.2	0.4892	mg/L	0.00788	0.4892	mg/L	0.00788	1.61%
QC value within limits for Arsenic,7440-38-2 Recovery = 97.83%								
Barium,7440-39-3†	10285.0	0.4900	mg/L	0.00540	0.4900	mg/L	0.00540	1.10%
QC value within limits for Barium,7440-39-3 Recovery = 98.00%								
Beryllium,7440-41-7†	4615945.1	0.4843	mg/L	0.00608	0.4843	mg/L	0.00608	1.26%

QC value within limits for Beryllium,7440-41-7 Recovery = 96.85%
Boron,7440-42-8† 151358.6 2.3691 mg/L 0.06040 2.3691 mg/L 0.06040 2.55%
QC value within limits for Boron,7440-42-8 Recovery = 94.76%
Calcium,7440-70-2† 308924.0 4.8177 mg/L 0.10885 4.8177 mg/L 0.10885 2.26%
QC value within limits for Calcium,7440-70-2 Recovery = 96.35%
Cadmium,7440-43-9† 2853.3 0.4925 mg/L 0.00463 0.4925 mg/L 0.00463 0.94%
QC value within limits for Cadmium,7440-43-9 Recovery = 98.51%
Chromium,7440-47-3† 56883.9 0.4851 mg/L 0.01207 0.4851 mg/L 0.01207 2.49%
QC value within limits for Chromium,7440-47-3 Recovery = 97.03%
Cobalt,7440-48-4† 2414.9 0.4900 mg/L 0.00408 0.4900 mg/L 0.00408 0.83%
QC value within limits for Cobalt,7440-48-4 Recovery = 98.00%
Copper,7440-50-8† 47718.8 0.4670 mg/L 0.01085 0.4670 mg/L 0.01085 2.32%
QC value within limits for Copper,7440-50-8 Recovery = 93.40%
Iron,7439-89-6† 36627.8 4.8502 mg/L 0.11851 4.8502 mg/L 0.11851 2.44%
QC value within limits for Iron,7439-89-6 Recovery = 97.00%
Lead,7439-92-1† 657.1 0.4931 mg/L 0.00415 0.4931 mg/L 0.00415 0.84%
QC value within limits for Lead,7439-92-1 Recovery = 98.63%
Lithium,7439-93-2† 547.8 0.3803 mg/L 0.00557 0.3803 mg/L 0.00557 1.46%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 76.06%
Magnesium,7439-95-4† 69391.6 4.8666 mg/L 0.11410 4.8666 mg/L 0.11410 2.34%
QC value within limits for Magnesium,7439-95-4 Recovery = 97.33%
Manganese,7439-96-5† 65884.0 0.4782 mg/L 0.01160 0.4782 mg/L 0.01160 2.43%
QC value within limits for Manganese,7439-96-5 Recovery = 95.63%
Molybdenum,7439-98-7† 1524.6 0.4937 mg/L 0.00416 0.4937 mg/L 0.00416 0.84%
QC value within limits for Molybdenum,7439-98-7 Recovery = 98.74%
Nickel,7440-02-0† 5905.5 0.4839 mg/L 0.00524 0.4839 mg/L 0.00524 1.08%
QC value within limits for Nickel,7440-02-0 Recovery = 96.78%
Selenium,7782-49-2† 174.8 0.4935 mg/L 0.01473 0.4935 mg/L 0.01473 2.98%
QC value within limits for Selenium,7782-49-2 Recovery = 98.71%
Silver,7440-22-4† 94765.0 0.4808 mg/L 0.01102 0.4808 mg/L 0.01102 2.29%
QC value within limits for Silver,7440-22-4 Recovery = 96.17%
Strontium,7440-24-6† 26473.9 0.4455 mg/L 0.01109 0.4455 mg/L 0.01109 2.49%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 89.10%
Thallium,7440-28-0† 102.1 0.4690 mg/L 0.04609 0.4690 mg/L 0.04609 9.83%
QC value within limits for Thallium,7440-28-0 Recovery = 93.80%
Tin,7440-31-5† 273.0 0.4871 mg/L 0.00214 0.4871 mg/L 0.00214 0.44%
QC value within limits for Tin,7440-31-5 Recovery = 97.41%
Titanium,7440-32-6† 169895.8 0.4799 mg/L 0.00543 0.4799 mg/L 0.00543 1.13%
QC value within limits for Titanium,7440-32-6 Recovery = 95.98%
Vanadium,7440-62-2† 80855.6 0.4826 mg/L 0.01166 0.4826 mg/L 0.01166 2.42%
QC value within limits for Vanadium,7440-62-2 Recovery = 96.52%
Zinc,7440-66-6† 11172.3 0.4877 mg/L 0.00517 0.4877 mg/L 0.00517 1.06%
QC value within limits for Zinc,7440-66-6 Recovery = 97.54%
Zirconium,7440-67-7† 152713.6 0.4696 mg/L 0.01107 0.4696 mg/L 0.01107 2.36%
QC value within limits for Zirconium,7440-67-7 Recovery = 93.93%
QC Failed. Continue with analysis.

Sequence No.: 46
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 9:18:41 PM
Data Type: Reprocessed on 6/21/2005 8:26:22 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1126187.8	99.714	%	1.7419				1.75%
Yttrium,7440-65-5R	2070654.2	99.631	%	1.7390				1.75%
Scandium	1653358.4	99.485	%	1.7592				1.77%
Ar 420.069	1275357.3	104.47	%	0.135				0.13%
Aluminum,7429-90-5†	-326.5	-0.0365	mg/L	0.02325	-0.0365	mg/L	0.02325	63.63%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	6.2	0.0196	mg/L	0.00269	0.0196	mg/L	0.00269	13.77%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	6.5	0.0247	mg/L	0.01190	0.0247	mg/L	0.01190	48.14%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-8.7	-0.0004	mg/L	0.00091	-0.0004	mg/L	0.00091	220.19%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-3628.0	-0.0004	mg/L	0.00054	-0.0004	mg/L	0.00054	141.21%

QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated
Boron,7440-42-8† 680.0 0.0106 mg/L 0.00279 0.0106 mg/L 0.00279 26.24%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated
Calcium,7440-70-2† 244.3 0.0038 mg/L 0.00185 0.0038 mg/L 0.00185 48.67%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated
Cadmium,7440-43-9† 0.1 0.0000 mg/L 0.00051 0.0000 mg/L 0.00051 >999.9%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated
Chromium,7440-47-3† -58.2 -0.0005 mg/L 0.00022 -0.0005 mg/L 0.00022 45.76%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated
Cobalt,7440-48-4† 0.2 0.0000 mg/L 0.00084 0.0000 mg/L 0.00084 >999.9%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated
Copper,7440-50-8† 232.1 0.0023 mg/L 0.00168 0.0023 mg/L 0.00168 74.13%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated
Iron,7439-89-6† 80.9 0.0107 mg/L 0.00260 0.0107 mg/L 0.00260 24.21%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated
Lead,7439-92-1† 1.8 0.0013 mg/L 0.00235 0.0013 mg/L 0.00235 175.96%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated
Lithium,7439-93-2† -148.4 -0.1078 mg/L 0.06451 -0.1078 mg/L 0.06451 59.82%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = Not calculated
Magnesium,7439-95-4† 23.5 0.0017 mg/L 0.00284 0.0017 mg/L 0.00284 171.93%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated
Manganese,7439-96-5† 18.3 0.0001 mg/L 0.00010 0.0001 mg/L 0.00010 73.51%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated
Molybdenum,7439-98-7† 4.0 0.0013 mg/L 0.00270 0.0013 mg/L 0.00270 211.12%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated
Nickel,7440-02-0† -7.7 -0.0006 mg/L 0.00046 -0.0006 mg/L 0.00046 73.85%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated
Selenium,7782-49-2† 4.8 0.0135 mg/L 0.01371 0.0135 mg/L 0.01371 101.43%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated
Silver,7440-22-4† -47.3 -0.0002 mg/L 0.00042 -0.0002 mg/L 0.00042 174.48%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated
Strontium,7440-24-6† 5.1 0.0001 mg/L 0.00082 0.0001 mg/L 0.00082 958.24%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated
Thallium,7440-28-0† -4.0 -0.0181 mg/L 0.00710 -0.0181 mg/L 0.00710 39.18%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated
Tin,7440-31-5† -3.8 -0.0068 mg/L 0.00324 -0.0068 mg/L 0.00324 47.87%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated
Titanium,7440-32-6† 85.5 0.0002 mg/L 0.00019 0.0002 mg/L 0.00019 77.84%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated
Vanadium,7440-62-2† 9.2 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 169.68%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated
Zinc,7440-66-6† 12.6 0.0006 mg/L 0.00041 0.0006 mg/L 0.00041 74.00%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated
Zirconium,7440-67-7† 94.4 0.0003 mg/L 0.00056 0.0003 mg/L 0.00056 193.09%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 47
Sample ID: 20506171453
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 47
Date Collected: 6/20/2005 9:23:37 PM
Data Type: Reprocessed on 6/21/2005 8:26:24 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171453

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1220448.9	108.06	%	1.891				1.75%
Yttrium,7440-65-5R	2248319.7	108.18	%	1.897				1.75%
Scandium	1807299.8	108.75	%	1.916				1.76%
Ar 420.069	1276672.0	104.58	%	0.301				0.29%
Aluminum,7429-90-5†	-705.8	-0.0793	mg/L	0.02616	-0.0793	mg/L	0.02616	33.00%
Antimony,7440-36-0†	7.6	0.0217	mg/L	0.01103	0.0217	mg/L	0.01103	50.74%
Arsenic,7440-38-2†	5.2	0.0220	mg/L	0.00409	0.0220	mg/L	0.00409	18.56%
Barium,7440-39-3†	5444.6	0.2583	mg/L	0.00551	0.2583	mg/L	0.00551	2.13%
Beryllium,7440-41-7†	-19940.5	-0.0021	mg/L	0.00032	-0.0021	mg/L	0.00032	15.39%
Boron,7440-42-8†	13492.8	0.2166	mg/L	0.00525	0.2166	mg/L	0.00525	2.42%
Calcium,7440-70-2†	1325170.2	20.664	mg/L	0.4209	20.664	mg/L	0.4209	2.04%
Cadmium,7440-43-9†	-5.2	-0.0007	mg/L	0.00089	-0.0007	mg/L	0.00089	119.02%
Chromium,7440-47-3†	-61.9	0.0104	mg/L	0.00070	0.0104	mg/L	0.00070	6.70%

Cobalt,7440-48-4†	55.3	0.0096 mg/L	0.00093	0.0096 mg/L	0.00093	9.65%
Copper,7440-50-8†	281.4	0.0023 mg/L	0.00024	0.0023 mg/L	0.00024	10.09%
Iron,7439-89-6†	219403.2	29.081 mg/L	0.6325	29.081 mg/L	0.6325	2.18%
Lead,7439-92-1†	1.0	-0.0002 mg/L	0.00527	-0.0002 mg/L	0.00527	>999.9%
Lithium,7439-93-2†	383.1	0.1792 mg/L	0.06329	0.1792 mg/L	0.06329	35.31%
Magnesium,7439-95-4†	15461.2	1.0990 mg/L	0.02249	1.0990 mg/L	0.02249	2.05%
Manganese,7439-96-5†	12920.6	0.0952 mg/L	0.00228	0.0952 mg/L	0.00228	2.40%
Molybdenum,7439-98-7†	16.4	0.0058 mg/L	0.00114	0.0058 mg/L	0.00114	19.52%
Nickel,7440-02-0†	167.3	0.0130 mg/L	0.00034	0.0130 mg/L	0.00034	2.59%
Selenium,7782-49-2†	9.3	0.0388 mg/L	0.01086	0.0388 mg/L	0.01086	28.02%
Silver,7440-22-4†	-785.0	-0.0024 mg/L	0.00093	-0.0024 mg/L	0.00093	39.36%
Strontium,7440-24-6†	8273.9	0.1386 mg/L	0.00366	0.1386 mg/L	0.00366	2.64%
Thallium,7440-28-0†	2.2	0.0097 mg/L	0.02002	0.0097 mg/L	0.02002	205.74%
Tin,7440-31-5†	-9.5	-0.0067 mg/L	0.00909	-0.0067 mg/L	0.00909	136.57%
Titanium,7440-32-6†	325.8	0.0009 mg/L	0.00049	0.0009 mg/L	0.00049	52.94%
Vanadium,7440-62-2†	212.9	-0.0001 mg/L	0.00071	-0.0001 mg/L	0.00071	659.34%
Zinc,7440-66-6†	3309.2	0.1386 mg/L	0.00268	0.1386 mg/L	0.00268	1.93%
Zirconium,7440-67-7†	-93.7	-0.0006 mg/L	0.00015	-0.0006 mg/L	0.00015	25.81%

Sequence No.: 48
Sample ID: 20506171454
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 48
Date Collected: 6/20/2005 9:29:05 PM
Data Type: Reprocessed on 6/21/2005 8:26:25 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171454

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1204288.7	106.63	%	0.916				0.86%
Yttrium,7440-65-5R	2219093.2	106.77	%	0.913				0.86%
Scandium	1776869.9	106.92	%	0.897				0.84%
Ar 420.069	1267042.0	103.79	%	0.216				0.21%
Aluminum,7429-90-5†	-144.4	-0.0228	mg/L	0.01041	-0.0228	mg/L	0.01041	45.62%
Antimony,7440-36-0†	2.7	0.0092	mg/L	0.02689	0.0092	mg/L	0.02689	293.74%
Arsenic,7440-38-2†	-0.2	0.0014	mg/L	0.01332	0.0014	mg/L	0.01332	948.08%
Barium,7440-39-3†	3217.4	0.1516	mg/L	0.00171	0.1516	mg/L	0.00171	1.13%
Beryllium,7440-41-7†	-16566.1	-0.0017	mg/L	0.00019	-0.0017	mg/L	0.00019	11.19%
Boron,7440-42-8†	3843.1	0.0611	mg/L	0.00069	0.0611	mg/L	0.00069	1.14%
Calcium,7440-70-2†	2459137.6	38.354	mg/L	0.2032	38.354	mg/L	0.2032	0.53%
Cadmium,7440-43-9†	-4.2	-0.0008	mg/L	0.00036	-0.0008	mg/L	0.00036	46.49%
Chromium,7440-47-3†	248.0	0.0028	mg/L	0.00056	0.0028	mg/L	0.00056	20.10%
Cobalt,7440-48-4†	6.0	0.0011	mg/L	0.00057	0.0011	mg/L	0.00057	50.93%
Copper,7440-50-8†	840.4	0.0084	mg/L	0.00020	0.0084	mg/L	0.00020	2.37%
Iron,7439-89-6†	8767.1	1.1620	mg/L	0.00817	1.1620	mg/L	0.00817	0.70%
Lead,7439-92-1†	0.9	0.0008	mg/L	0.00513	0.0008	mg/L	0.00513	651.18%
Lithium,7439-93-2†	-323.9	-0.2401	mg/L	0.01479	-0.2401	mg/L	0.01479	6.16%
Magnesium,7439-95-4†	381318.0	26.732	mg/L	0.1418	26.732	mg/L	0.1418	0.53%
Manganese,7439-96-5†	25305.1	0.1835	mg/L	0.00176	0.1835	mg/L	0.00176	0.96%
Molybdenum,7439-98-7†	7.8	0.0034	mg/L	0.00187	0.0034	mg/L	0.00187	55.46%
Nickel,7440-02-0†	18.7	0.0015	mg/L	0.00122	0.0015	mg/L	0.00122	81.37%
Selenium,7782-49-2†	-1.9	-0.0044	mg/L	0.01997	-0.0044	mg/L	0.01997	453.54%
Silver,7440-22-4†	-711.8	-0.0010	mg/L	0.00049	-0.0010	mg/L	0.00049	49.75%
Strontium,7440-24-6†	11575.6	0.1921	mg/L	0.00506	0.1921	mg/L	0.00506	2.64%
Thallium,7440-28-0†	8.0	0.0370	mg/L	0.02219	0.0370	mg/L	0.02219	59.99%
Tin,7440-31-5†	-20.4	-0.0255	mg/L	0.00743	-0.0255	mg/L	0.00743	29.09%
Titanium,7440-32-6†	3898.1	0.0110	mg/L	0.00072	0.0110	mg/L	0.00072	6.52%
Vanadium,7440-62-2†	210.5	0.0012	mg/L	0.00041	0.0012	mg/L	0.00041	33.84%
Zinc,7440-66-6†	3071.3	0.1283	mg/L	0.00134	0.1283	mg/L	0.00134	1.04%
Zirconium,7440-67-7†	-212.6	-0.0006	mg/L	0.00049	-0.0006	mg/L	0.00049	86.51%

Sequence No.: 49
Sample ID: 20506171455
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 49
Date Collected: 6/20/2005 9:34:28 PM
Data Type: Reprocessed on 6/21/2005 8:26:27 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171455

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1225539.7	108.51	%	0.994				0.92%
Yttrium,7440-65-5R	2258806.6	108.68	%	0.991				0.91%
Scandium	1813211.7	109.10	%	0.972				0.89%
Ar 420.069	1270115.6	104.04	%	0.326				0.31%
Aluminum,7429-90-5†	-540.3	-0.0581	mg/L	0.00820	-0.0581	mg/L	0.00820	14.12%
Antimony,7440-36-0†	31.7	0.0960	mg/L	0.00972	0.0960	mg/L	0.00972	10.12%
Arsenic,7440-38-2†	2.4	0.0124	mg/L	0.01106	0.0124	mg/L	0.01106	88.98%
Barium,7440-39-3†	9616.5	0.4570	mg/L	0.00318	0.4570	mg/L	0.00318	0.70%
Beryllium,7440-41-7†	-17023.3	-0.0018	mg/L	0.00014	-0.0018	mg/L	0.00014	7.76%
Boron,7440-42-8†	20249.5	0.3263	mg/L	0.00070	0.3263	mg/L	0.00070	0.21%
Calcium,7440-70-2†	1228228.5	19.148	mg/L	0.1387	19.148	mg/L	0.1387	0.72%
Cadmium,7440-43-9†	20.7	0.0039	mg/L	0.00075	0.0039	mg/L	0.00075	19.41%
Chromium,7440-47-3†	-70.8	0.0189	mg/L	0.00035	0.0189	mg/L	0.00035	1.87%
Cobalt,7440-48-4†	25.7	0.0023	mg/L	0.00126	0.0023	mg/L	0.00126	54.84%
Copper,7440-50-8†	459.9	0.0036	mg/L	0.00039	0.0036	mg/L	0.00039	10.69%
Iron,7439-89-6†	394677.5	52.312	mg/L	0.4212	52.312	mg/L	0.4212	0.81%
Lead,7439-92-1†	6.6	0.0033	mg/L	0.00687	0.0033	mg/L	0.00687	209.75%
Lithium,7439-93-2†	702.4	0.3325	mg/L	0.04877	0.3325	mg/L	0.04877	14.67%
Magnesium,7439-95-4†	21694.3	1.5499	mg/L	0.00741	1.5499	mg/L	0.00741	0.48%
Manganese,7439-96-5†	19673.1	0.1454	mg/L	0.00066	0.1454	mg/L	0.00066	0.46%
Molybdenum,7439-98-7†	5.6	0.0026	mg/L	0.00177	0.0026	mg/L	0.00177	69.07%
Nickel,7440-02-0†	306.4	0.0238	mg/L	0.00119	0.0238	mg/L	0.00119	4.98%
Selenium,7782-49-2†	4.2	0.0349	mg/L	0.00968	0.0349	mg/L	0.00968	27.73%
Silver,7440-22-4†	-972.4	-0.0033	mg/L	0.00031	-0.0033	mg/L	0.00031	9.49%
Strontium,7440-24-6†	6399.2	0.1078	mg/L	0.00206	0.1078	mg/L	0.00206	1.91%
Thallium,7440-28-0†	4.5	0.0192	mg/L	0.01856	0.0192	mg/L	0.01856	96.46%
Tin,7440-31-5†	-9.1	-0.0010	mg/L	0.00204	-0.0010	mg/L	0.00204	196.13%
Titanium,7440-32-6†	1571.2	0.0044	mg/L	0.00168	0.0044	mg/L	0.00168	37.93%
Vanadium,7440-62-2†	-70.7	-0.0029	mg/L	0.00024	-0.0029	mg/L	0.00024	8.22%
Zinc,7440-66-6†	4366.1	0.1825	mg/L	0.00368	0.1825	mg/L	0.00368	2.02%
Zirconium,7440-67-7†	-57.6	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	38.25%

Sequence No.: 50
Sample ID: 20506171456
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 50
Date Collected: 6/20/2005 9:39:27 PM
Data Type: Reprocessed on 6/21/2005 8:26:28 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171456

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1213938.6	107.48	%	0.353				0.33%
Yttrium,7440-65-5R	2236359.5	107.60	%	0.371				0.34%
Scandium	1796418.4	108.09	%	0.372				0.34%
Ar 420.069	1269824.8	104.02	%	0.669				0.64%
Aluminum,7429-90-5†	84.0	0.0072	mg/L	0.00617	0.0072	mg/L	0.00617	86.08%
Antimony,7440-36-0†	1.6	0.0031	mg/L	0.01353	0.0031	mg/L	0.01353	443.67%
Arsenic,7440-38-2†	1.5	0.0076	mg/L	0.01312	0.0076	mg/L	0.01312	171.93%
Barium,7440-39-3†	615.9	0.0278	mg/L	0.00048	0.0278	mg/L	0.00048	1.74%
Beryllium,7440-41-7†	-16685.8	-0.0017	mg/L	0.00007	-0.0017	mg/L	0.00007	3.73%
Boron,7440-42-8†	9259.1	0.1499	mg/L	0.00234	0.1499	mg/L	0.00234	1.56%
Calcium,7440-70-2†	1910252.7	29.790	mg/L	0.1286	29.790	mg/L	0.1286	0.43%
Cadmium,7440-43-9†	-7.1	-0.0011	mg/L	0.00072	-0.0011	mg/L	0.00072	64.16%
Chromium,7440-47-3†	-256.4	0.0074	mg/L	0.00026	0.0074	mg/L	0.00026	3.46%
Cobalt,7440-48-4†	78.9	0.0146	mg/L	0.00014	0.0146	mg/L	0.00014	0.97%
Copper,7440-50-8†	28.4	0.0000	mg/L	0.00060	0.0000	mg/L	0.00060	>999.9%
Iron,7439-89-6†	192532.5	25.519	mg/L	0.1230	25.519	mg/L	0.1230	0.48%
Lead,7439-92-1†	-6.5	-0.0057	mg/L	0.00442	-0.0057	mg/L	0.00442	78.07%
Lithium,7439-93-2†	287.3	0.1215	mg/L	0.07210	0.1215	mg/L	0.07210	59.34%
Magnesium,7439-95-4†	17628.0	1.2475	mg/L	0.01841	1.2475	mg/L	0.01841	1.48%
Manganese,7439-96-5†	35167.0	0.2565	mg/L	0.00290	0.2565	mg/L	0.00290	1.13%
Molybdenum,7439-98-7†	8.2	0.0033	mg/L	0.00126	0.0033	mg/L	0.00126	38.47%
Nickel,7440-02-0†	261.2	0.0207	mg/L	0.00073	0.0207	mg/L	0.00073	3.53%
Selenium,7782-49-2†	3.7	0.0208	mg/L	0.02028	0.0208	mg/L	0.02028	97.62%
Silver,7440-22-4†	-898.2	-0.0024	mg/L	0.00028	-0.0024	mg/L	0.00028	12.03%
Strontium,7440-24-6†	8403.0	0.1400	mg/L	0.00199	0.1400	mg/L	0.00199	1.42%

Thallium,7440-28-0†	2.1	0.0101 mg/L	0.02206	0.0101 mg/L	0.02206	217.59%
Tin,7440-31-5†	-9.2	-0.0052 mg/L	0.00688	-0.0052 mg/L	0.00688	131.12%
Titanium,7440-32-6†	7973.2	0.0225 mg/L	0.00477	0.0225 mg/L	0.00477	21.18%
Vanadium,7440-62-2†	57.5	-0.0009 mg/L	0.00037	-0.0009 mg/L	0.00037	42.56%
Zinc,7440-66-6†	996.6	0.0357 mg/L	0.00097	0.0357 mg/L	0.00097	2.73%
Zirconium,7440-67-7†	-405.8	-0.0015 mg/L	0.00029	-0.0015 mg/L	0.00029	19.42%

Sequence No.: 51
Sample ID: 20506171457
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 51
Date Collected: 6/20/2005 9:44:54 PM
Data Type: Reprocessed on 6/21/2005 8:26:29 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171457

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1215543.3	107.63	%	0.651				0.60%
Yttrium,7440-65-5R	2239602.7	107.76	%	0.609				0.57%
Scandium	1796102.4	108.07	%	0.612				0.57%
Ar 420.069	1270356.0	104.06	%	0.481				0.46%
Aluminum,7429-90-5†	-681.9	-0.0818	mg/L	0.00424	-0.0818	mg/L	0.00424	5.19%
Antimony,7440-36-0†	-3.1	-0.0111	mg/L	0.00322	-0.0111	mg/L	0.00322	29.11%
Arsenic,7440-38-2†	3.5	0.0158	mg/L	0.02941	0.0158	mg/L	0.02941	186.01%
Barium,7440-39-3†	5718.8	0.2702	mg/L	0.00179	0.2702	mg/L	0.00179	0.66%
Beryllium,7440-41-7†	-17289.5	-0.0018	mg/L	0.00016	-0.0018	mg/L	0.00016	8.74%
Boron,7440-42-8†	8542.5	0.1385	mg/L	0.00007	0.1385	mg/L	0.00007	0.05%
Calcium,7440-70-2†	3043761.2	47.470	mg/L	0.0717	47.470	mg/L	0.0717	0.15%
Cadmium,7440-43-9†	-7.6	-0.0012	mg/L	0.00061	-0.0012	mg/L	0.00061	49.12%
Chromium,7440-47-3†	-154.6	0.0071	mg/L	0.00040	0.0071	mg/L	0.00040	5.60%
Cobalt,7440-48-4†	54.1	0.0098	mg/L	0.00060	0.0098	mg/L	0.00060	6.08%
Copper,7440-50-8†	-92.2	-0.0010	mg/L	0.00114	-0.0010	mg/L	0.00114	115.35%
Iron,7439-89-6†	164285.8	21.775	mg/L	0.0437	21.775	mg/L	0.0437	0.20%
Lead,7439-92-1†	-6.6	-0.0056	mg/L	0.00706	-0.0056	mg/L	0.00706	126.60%
Lithium,7439-93-2†	284.7	0.1319	mg/L	0.07235	0.1319	mg/L	0.07235	54.85%
Magnesium,7439-95-4†	45679.3	3.2104	mg/L	0.00927	3.2104	mg/L	0.00927	0.29%
Manganese,7439-96-5†	32004.2	0.2333	mg/L	0.00137	0.2333	mg/L	0.00137	0.59%
Molybdenum,7439-98-7†	-7.8	-0.0017	mg/L	0.00092	-0.0017	mg/L	0.00092	54.52%
Nickel,7440-02-0†	224.4	0.0178	mg/L	0.00179	0.0178	mg/L	0.00179	10.07%
Selenium,7782-49-2†	8.9	0.0336	mg/L	0.02063	0.0336	mg/L	0.02063	61.44%
Silver,7440-22-4†	-1069.0	-0.0020	mg/L	0.00022	-0.0020	mg/L	0.00022	11.09%
Strontium,7440-24-6†	13557.2	0.2253	mg/L	0.00062	0.2253	mg/L	0.00062	0.27%
Thallium,7440-28-0†	5.8	0.0274	mg/L	0.04214	0.0274	mg/L	0.04214	153.57%
Tin,7440-31-5†	-12.5	-0.0086	mg/L	0.00584	-0.0086	mg/L	0.00584	67.72%
Titanium,7440-32-6†	150.8	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	50.98%
Vanadium,7440-62-2†	347.6	0.0010	mg/L	0.00003	0.0010	mg/L	0.00003	2.82%
Zinc,7440-66-6†	2492.7	0.0990	mg/L	0.00081	0.0990	mg/L	0.00081	0.82%
Zirconium,7440-67-7†	-605.2	-0.0020	mg/L	0.00014	-0.0020	mg/L	0.00014	6.89%

Sequence No.: 52
Sample ID: 20506171001
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 52
Date Collected: 6/20/2005 9:49:52 PM
Data Type: Reprocessed on 6/21/2005 8:26:30 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506171001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1197797.0	106.05	%	3.874				3.65%
Yttrium,7440-65-5R	2205278.8	106.11	%	3.895				3.67%
Scandium	1770780.1	106.55	%	3.925				3.68%
Ar 420.069	1271856.7	104.19	%	0.343				0.33%
Aluminum,7429-90-5†	1157.6	0.1172	mg/L	0.06100	0.1172	mg/L	0.06100	52.05%
Antimony,7440-36-0†	0.1	0.0017	mg/L	0.02936	0.0017	mg/L	0.02936	>999.9%
Arsenic,7440-38-2†	1.5	0.0083	mg/L	0.01676	0.0083	mg/L	0.01676	201.20%
Barium,7440-39-3†	1320.5	0.0595	mg/L	0.00190	0.0595	mg/L	0.00190	3.19%
Beryllium,7440-41-7†	-12822.7	-0.0013	mg/L	0.00071	-0.0013	mg/L	0.00071	53.14%

Boron,7440-42-8†	1773.4	0.0293 mg/L	0.00189	0.0293 mg/L	0.00189	6.43%
Calcium,7440-70-2†	4807669.1	74.985 mg/L	3.6339	74.985 mg/L	3.6339	4.85%
Cadmium,7440-43-9†	2.7	0.0004 mg/L	0.00114	0.0004 mg/L	0.00114	310.80%
Chromium,7440-47-3†	-102.0	-0.0002 mg/L	0.00083	-0.0002 mg/L	0.00083	361.27%
Cobalt,7440-48-4†	-0.0	0.0000 mg/L	0.00080	0.0000 mg/L	0.00080	>999.9%
Copper,7440-50-8†	-343.8	-0.0029 mg/L	0.00095	-0.0029 mg/L	0.00095	33.28%
Iron,7439-89-6†	1163.2	0.1543 mg/L	0.00590	0.1543 mg/L	0.00590	3.82%
Lead,7439-92-1†	-6.1	-0.0044 mg/L	0.00177	-0.0044 mg/L	0.00177	40.27%
Lithium,7439-93-2†	-279.0	-0.2050 mg/L	0.01188	-0.2050 mg/L	0.01188	5.80%
Magnesium,7439-95-4†	267806.6	18.769 mg/L	0.6032	18.769 mg/L	0.6032	3.21%
Manganese,7439-96-5†	13061.8	0.0947 mg/L	0.00342	0.0947 mg/L	0.00342	3.61%
Molybdenum,7439-98-7†	-19.6	-0.0052 mg/L	0.00098	-0.0052 mg/L	0.00098	18.90%
Nickel,7440-02-0†	35.8	0.0029 mg/L	0.00109	0.0029 mg/L	0.00109	37.77%
Selenium,7782-49-2†	-0.7	-0.0031 mg/L	0.00567	-0.0031 mg/L	0.00567	185.83%
Silver,7440-22-4†	-1120.5	-0.0005 mg/L	0.00042	-0.0005 mg/L	0.00042	83.45%
Strontium,7440-24-6†	51585.4	0.8630 mg/L	0.02894	0.8630 mg/L	0.02894	3.35%
Thallium,7440-28-0†	5.2	0.0254 mg/L	0.03322	0.0254 mg/L	0.03322	130.79%
Tin,7440-31-5†	-19.4	-0.0186 mg/L	0.00350	-0.0186 mg/L	0.00350	18.81%
Titanium,7440-32-6†	5183.2	0.0146 mg/L	0.00013	0.0146 mg/L	0.00013	0.88%
Vanadium,7440-62-2†	193.2	0.0011 mg/L	0.00063	0.0011 mg/L	0.00063	55.42%
Zinc,7440-66-6†	2371.1	0.0916 mg/L	0.00293	0.0916 mg/L	0.00293	3.20%
Zirconium,7440-67-7†	-377.4	-0.0010 mg/L	0.00099	-0.0010 mg/L	0.00099	101.74%

Sequence No.: 53
Sample ID: 20506170824
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 53
Date Collected: 6/20/2005 9:55:23 PM
Data Type: Reprocessed on 6/21/2005 8:26:31 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170824

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1185854.6	105.00	%	1.482				1.41%
Yttrium,7440-65-5R	2183887.4	105.08	%	1.484				1.41%
Scandium	1756812.4	105.71	%	1.517				1.44%
Ar 420.069	1279278.3	104.80	%	0.052				0.05%
Aluminum,7429-90-5†	8298.6	0.9281	mg/L	0.03974	0.9281	mg/L	0.03974	4.28%
Antimony,7440-36-0†	1.1	0.0032	mg/L	0.01132	0.0032	mg/L	0.01132	355.79%
Arsenic,7440-38-2†	0.9	0.0037	mg/L	0.01113	0.0037	mg/L	0.01113	303.20%
Barium,7440-39-3†	3810.0	0.1815	mg/L	0.00422	0.1815	mg/L	0.00422	2.33%
Beryllium,7440-41-7†	-10882.3	-0.0011	mg/L	0.00034	-0.0011	mg/L	0.00034	30.28%
Boron,7440-42-8†	879.9	0.0140	mg/L	0.00124	0.0140	mg/L	0.00124	8.85%
Calcium,7440-70-2†	186745.1	2.9124	mg/L	0.05098	2.9124	mg/L	0.05098	1.75%
Cadmium,7440-43-9†	0.2	0.0000	mg/L	0.00031	0.0000	mg/L	0.00031	660.13%
Chromium,7440-47-3†	103.4	0.0008	mg/L	0.00060	0.0008	mg/L	0.00060	70.58%
Cobalt,7440-48-4†	5.6	0.0010	mg/L	0.00087	0.0010	mg/L	0.00087	82.91%
Copper,7440-50-8†	291.5	0.0029	mg/L	0.00095	0.0029	mg/L	0.00095	33.07%
Iron,7439-89-6†	4762.4	0.6310	mg/L	0.01456	0.6310	mg/L	0.01456	2.31%
Lead,7439-92-1†	-5.4	-0.0040	mg/L	0.00146	-0.0040	mg/L	0.00146	36.55%
Lithium,7439-93-2†	-108.0	-0.0807	mg/L	0.14744	-0.0807	mg/L	0.14744	182.73%
Magnesium,7439-95-4†	30130.5	2.1116	mg/L	0.04222	2.1116	mg/L	0.04222	2.00%
Manganese,7439-96-5†	61694.1	0.4477	mg/L	0.01074	0.4477	mg/L	0.01074	2.40%
Molybdenum,7439-98-7†	-2.4	-0.0006	mg/L	0.00242	-0.0006	mg/L	0.00242	399.31%
Nickel,7440-02-0†	23.7	0.0019	mg/L	0.00093	0.0019	mg/L	0.00093	48.58%
Selenium,7782-49-2†	4.0	0.0111	mg/L	0.02129	0.0111	mg/L	0.02129	192.49%
Silver,7440-22-4†	-120.3	-0.0005	mg/L	0.00010	-0.0005	mg/L	0.00010	22.08%
Strontium,7440-24-6†	2104.5	0.0352	mg/L	0.00260	0.0352	mg/L	0.00260	7.38%
Thallium,7440-28-0†	-1.5	-0.0057	mg/L	0.02892	-0.0057	mg/L	0.02892	507.19%
Tin,7440-31-5†	-4.2	-0.0064	mg/L	0.00691	-0.0064	mg/L	0.00691	108.40%
Titanium,7440-32-6†	11704.5	0.0331	mg/L	0.00095	0.0331	mg/L	0.00095	2.88%
Vanadium,7440-62-2†	329.1	0.0019	mg/L	0.00006	0.0019	mg/L	0.00006	3.25%
Zinc,7440-66-6†	1674.9	0.0731	mg/L	0.00208	0.0731	mg/L	0.00208	2.85%
Zirconium,7440-67-7†	-314.8	-0.0010	mg/L	0.00036	-0.0010	mg/L	0.00036	36.26%

Sequence No.: 54
Sample ID: 250683
Analyst:
Logged In Analyst (Original) : met

Autosampler Location: 54
Date Collected: 6/20/2005 10:00:21 PM
Data Type: Reprocessed on 6/21/2005 8:26:32 AM

Initial Sample Wt:
Dilution: 1X

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250683

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1171981.6	103.77	%	0.819				0.79%
Yttrium,7440-65-5R	2156412.9	103.76	%	0.816				0.79%
Scandium	1725652.7	103.83	%	0.901				0.87%
Ar 420.069	1277068.1	104.61	%	0.541				0.52%
Aluminum,7429-90-5†	-612.4	-0.0685	mg/L	0.01462	-0.0685	mg/L	0.01462	21.33%
Antimony,7440-36-0†	0.0	0.0001	mg/L	0.01242	0.0001	mg/L	0.01242	>999.9%
Arsenic,7440-38-2†	2.3	0.0090	mg/L	0.00767	0.0090	mg/L	0.00767	85.36%
Barium,7440-39-3†	-0.5	0.0000	mg/L	0.00070	0.0000	mg/L	0.00070	>999.9%
Beryllium,7440-41-7†	-8115.8	-0.0009	mg/L	0.00023	-0.0009	mg/L	0.00023	26.86%
Boron,7440-42-8†	-929.6	-0.0145	mg/L	0.00016	-0.0145	mg/L	0.00016	1.09%
Calcium,7440-70-2†	902.1	0.0141	mg/L	0.00278	0.0141	mg/L	0.00278	19.80%
Cadmium,7440-43-9†	2.6	0.0004	mg/L	0.00056	0.0004	mg/L	0.00056	126.72%
Chromium,7440-47-3†	-126.9	-0.0011	mg/L	0.00070	-0.0011	mg/L	0.00070	66.07%
Cobalt,7440-48-4†	0.2	0.0000	mg/L	0.00055	0.0000	mg/L	0.00055	>999.9%
Copper,7440-50-8†	295.9	0.0029	mg/L	0.00055	0.0029	mg/L	0.00055	19.02%
Iron,7439-89-6†	290.9	0.0386	mg/L	0.05127	0.0386	mg/L	0.05127	132.93%
Lead,7439-92-1†	-5.1	-0.0038	mg/L	0.00356	-0.0038	mg/L	0.00356	93.38%
Lithium,7439-93-2†	-51.0	-0.0372	mg/L	0.02175	-0.0372	mg/L	0.02175	58.49%
Magnesium,7439-95-4†	31.9	0.0023	mg/L	0.00330	0.0023	mg/L	0.00330	145.93%
Manganese,7439-96-5†	62.0	0.0005	mg/L	0.00073	0.0005	mg/L	0.00073	161.59%
Molybdenum,7439-98-7†	3.6	0.0012	mg/L	0.00200	0.0012	mg/L	0.00200	172.33%
Nickel,7440-02-0†	-12.0	-0.0010	mg/L	0.00097	-0.0010	mg/L	0.00097	99.03%
Selenium,7782-49-2†	9.8	0.0276	mg/L	0.01184	0.0276	mg/L	0.01184	42.91%
Silver,7440-22-4†	-76.1	-0.0004	mg/L	0.00008	-0.0004	mg/L	0.00008	21.75%
Strontium,7440-24-6†	-21.4	-0.0004	mg/L	0.00223	-0.0004	mg/L	0.00223	619.44%
Thallium,7440-28-0†	4.4	0.0200	mg/L	0.02987	0.0200	mg/L	0.02987	149.31%
Tin,7440-31-5†	-2.9	-0.0051	mg/L	0.00195	-0.0051	mg/L	0.00195	38.10%
Titanium,7440-32-6†	96.2	0.0003	mg/L	0.00022	0.0003	mg/L	0.00022	82.04%
Vanadium,7440-62-2†	7.0	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	395.40%
Zinc,7440-66-6†	38.0	0.0017	mg/L	0.00104	0.0017	mg/L	0.00104	62.04%
Zirconium,7440-67-7†	-413.6	-0.0013	mg/L	0.00053	-0.0013	mg/L	0.00053	41.57%

Sequence No.: 55
Sample ID: 250684
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 55
Date Collected: 6/20/2005 10:06:10 PM
Data Type: Reprocessed on 6/21/2005 8:26:33 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250684

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1202759.0	106.49	%	0.248				0.23%
Yttrium,7440-65-5R	2211278.7	106.40	%	0.234				0.22%
Scandium	1785839.1	107.46	%	0.225				0.21%
Ar 420.069	1293738.1	105.98	%	0.135				0.13%
Aluminum,7429-90-5†	43751.7	4.8913	mg/L	0.03343	4.8913	mg/L	0.03343	0.68%
Antimony,7440-36-0†	154.6	0.4778	mg/L	0.01551	0.4778	mg/L	0.01551	3.25%
Arsenic,7440-38-2†	126.2	0.4892	mg/L	0.02604	0.4892	mg/L	0.02604	5.32%
Barium,7440-39-3†	10605.9	0.5053	mg/L	0.00248	0.5053	mg/L	0.00248	0.49%
Beryllium,7440-41-7†	4719997.3	0.4951	mg/L	0.00172	0.4951	mg/L	0.00172	0.35%
Boron,7440-42-8†	155775.0	2.4382	mg/L	0.03158	2.4382	mg/L	0.03158	1.30%
Calcium,7440-70-2†	320155.5	4.9928	mg/L	0.03227	4.9928	mg/L	0.03227	0.65%
Cadmium,7440-43-9†	2906.7	0.5018	mg/L	0.00390	0.5018	mg/L	0.00390	0.78%
Chromium,7440-47-3†	58798.7	0.5015	mg/L	0.00399	0.5015	mg/L	0.00399	0.80%
Cobalt,7440-48-4†	2464.1	0.5000	mg/L	0.00264	0.5000	mg/L	0.00264	0.53%
Copper,7440-50-8†	48806.2	0.4776	mg/L	0.00586	0.4776	mg/L	0.00586	1.23%
Iron,7439-89-6†	38039.9	5.0372	mg/L	0.03553	5.0372	mg/L	0.03553	0.71%
Lead,7439-92-1†	675.6	0.5070	mg/L	0.00499	0.5070	mg/L	0.00499	0.98%
Lithium,7439-93-2†	544.9	0.3775	mg/L	0.04254	0.3775	mg/L	0.04254	11.27%
Magnesium,7439-95-4†	72119.6	5.0579	mg/L	0.03707	5.0579	mg/L	0.03707	0.73%
Manganese,7439-96-5†	68024.4	0.4937	mg/L	0.00428	0.4937	mg/L	0.00428	0.87%
Molybdenum,7439-98-7†	1549.3	0.5017	mg/L	0.00170	0.5017	mg/L	0.00170	0.34%

Nickel,7440-02-0†	6133.9	0.5026 mg/L	0.00338	0.5026 mg/L	0.00338	0.67%
Selenium,7782-49-2†	178.6	0.5041 mg/L	0.00679	0.5041 mg/L	0.00679	1.35%
Silver,7440-22-4†	97130.9	0.4929 mg/L	0.00391	0.4929 mg/L	0.00391	0.79%
Strontium,7440-24-6†	28061.4	0.4722 mg/L	0.00218	0.4722 mg/L	0.00218	0.46%
Thallium,7440-28-0†	106.6	0.4894 mg/L	0.01381	0.4894 mg/L	0.01381	2.82%
Tin,7440-31-5†	275.1	0.4910 mg/L	0.00617	0.4910 mg/L	0.00617	1.26%
Titanium,7440-32-6†	171706.8	0.4850 mg/L	0.00366	0.4850 mg/L	0.00366	0.75%
Vanadium,7440-62-2†	84002.6	0.5014 mg/L	0.00342	0.5014 mg/L	0.00342	0.68%
Zinc,7440-66-6†	11546.4	0.5040 mg/L	0.00327	0.5040 mg/L	0.00327	0.65%
Zirconium,7440-67-7†	3071.0	0.0090 mg/L	0.00458	0.0090 mg/L	0.00458	50.92%

Sequence No.: 56
Sample ID: 20506170505
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 56
Date Collected: 6/20/2005 10:11:14 PM
Data Type: Reprocessed on 6/21/2005 8:26:35 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170505

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1200675.4	106.31	%	0.850				0.80%
Yttrium,7440-65-5R	2209195.1	106.30	%	0.858				0.81%
Scandium	1781171.1	107.18	%	0.866				0.81%
Ar 420.069	1287656.1	105.48	%	0.062				0.06%
Aluminum,7429-90-5†	6841.2	0.7610	mg/L	0.03749	0.7610	mg/L	0.03749	4.93%
Antimony,7440-36-0†	-1.0	-0.0029	mg/L	0.01548	-0.0029	mg/L	0.01548	541.60%
Arsenic,7440-38-2†	3.0	0.0121	mg/L	0.00922	0.0121	mg/L	0.00922	75.91%
Barium,7440-39-3†	792.8	0.0365	mg/L	0.00082	0.0365	mg/L	0.00082	2.25%
Beryllium,7440-41-7†	-14380.7	-0.0015	mg/L	0.00012	-0.0015	mg/L	0.00012	7.91%
Boron,7440-42-8†	2284.8	0.0364	mg/L	0.00150	0.0364	mg/L	0.00150	4.12%
Calcium,7440-70-2†	1867701.4	29.131	mg/L	0.3681	29.131	mg/L	0.3681	1.26%
Cadmium,7440-43-9†	-2.0	-0.0004	mg/L	0.00090	-0.0004	mg/L	0.00090	242.60%
Chromium,7440-47-3†	196.4	0.0019	mg/L	0.00070	0.0019	mg/L	0.00070	37.61%
Cobalt,7440-48-4†	2.8	0.0005	mg/L	0.00130	0.0005	mg/L	0.00130	246.76%
Copper,7440-50-8†	161.1	0.0018	mg/L	0.00041	0.0018	mg/L	0.00041	22.63%
Iron,7439-89-6†	815.0	0.1080	mg/L	0.02489	0.1080	mg/L	0.02489	23.05%
Lead,7439-92-1†	-3.5	-0.0025	mg/L	0.00457	-0.0025	mg/L	0.00457	182.83%
Lithium,7439-93-2†	-52.7	-0.0394	mg/L	0.03902	-0.0394	mg/L	0.03902	98.90%
Magnesium,7439-95-4†	15510.0	1.0846	mg/L	0.02537	1.0846	mg/L	0.02537	2.34%
Manganese,7439-96-5†	519.7	0.0038	mg/L	0.00038	0.0038	mg/L	0.00038	10.16%
Molybdenum,7439-98-7†	2.2	0.0011	mg/L	0.00373	0.0011	mg/L	0.00373	343.84%
Nickel,7440-02-0†	-5.8	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033	64.13%
Selenium,7782-49-2†	7.7	0.0209	mg/L	0.01508	0.0209	mg/L	0.01508	72.11%
Silver,7440-22-4†	-538.5	-0.0007	mg/L	0.00054	-0.0007	mg/L	0.00054	77.99%
Strontium,7440-24-6†	5277.8	0.0867	mg/L	0.00062	0.0867	mg/L	0.00062	0.71%
Thallium,7440-28-0†	-2.8	-0.0119	mg/L	0.05918	-0.0119	mg/L	0.05918	496.73%
Tin,7440-31-5†	-2.0	0.0018	mg/L	0.00402	0.0018	mg/L	0.00402	225.02%
Titanium,7440-32-6†	6332.5	0.0179	mg/L	0.00071	0.0179	mg/L	0.00071	3.96%
Vanadium,7440-62-2†	944.3	0.0056	mg/L	0.00031	0.0056	mg/L	0.00031	5.51%
Zinc,7440-66-6†	317.2	0.0091	mg/L	0.00031	0.0091	mg/L	0.00031	3.37%
Zirconium,7440-67-7†	-291.8	-0.0008	mg/L	0.00029	-0.0008	mg/L	0.00029	34.19%

Sequence No.: 57
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 10:16:14 PM
Data Type: Reprocessed on 6/21/2005 8:26:36 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1196336.1	105.93	%	1.047				0.99%
Yttrium,7440-65-5R	2201422.2	105.92	%	1.062				1.00%
Scandium	1776945.6	106.92	%	1.060				0.99%
Ar 420.069	1283921.8	105.18	%	0.305				0.29%
Aluminum,7429-90-5†	41372.1	4.6253	mg/L	0.10824	4.6253	mg/L	0.10824	2.34%

QC value within limits for Aluminum,7429-90-5 Recovery = 92.51%

Antimony,7440-36-0†	145.6	0.4499 mg/L	0.01925	0.4499 mg/L	0.01925	4.28%

QC value within limits for Antimony,7440-36-0 Recovery = 89.98%

Arsenic,7440-38-2†	124.4	0.4820 mg/L	0.01587	0.4820 mg/L	0.01587	3.29%

QC value within limits for Arsenic,7440-38-2 Recovery = 96.40%

Barium,7440-39-3†	9988.7	0.4759 mg/L	0.00957	0.4759 mg/L	0.00957	2.01%

QC value within limits for Barium,7440-39-3 Recovery = 95.18%

Beryllium,7440-41-7†	4526398.0	0.4749 mg/L	0.00927	0.4749 mg/L	0.00927	1.95%

QC value within limits for Beryllium,7440-41-7 Recovery = 94.97%

Boron,7440-42-8†	149213.0	2.3355 mg/L	0.05270	2.3355 mg/L	0.05270	2.26%

QC value within limits for Boron,7440-42-8 Recovery = 93.42%

Calcium,7440-70-2†	301982.2	4.7094 mg/L	0.09682	4.7094 mg/L	0.09682	2.06%

QC value within limits for Calcium,7440-70-2 Recovery = 94.19%

Cadmium,7440-43-9†	2767.0	0.4776 mg/L	0.00561	0.4776 mg/L	0.00561	1.17%

QC value within limits for Cadmium,7440-43-9 Recovery = 95.53%

Chromium,7440-47-3†	55735.5	0.4753 mg/L	0.01021	0.4753 mg/L	0.01021	2.15%

QC value within limits for Chromium,7440-47-3 Recovery = 95.07%

Cobalt,7440-48-4†	2338.0	0.4744 mg/L	0.00621	0.4744 mg/L	0.00621	1.31%

QC value within limits for Cobalt,7440-48-4 Recovery = 94.88%

Copper,7440-50-8†	46442.7	0.4545 mg/L	0.00937	0.4545 mg/L	0.00937	2.06%

QC value within limits for Copper,7440-50-8 Recovery = 90.90%

Iron,7439-89-6†	35989.3	4.7657 mg/L	0.10243	4.7657 mg/L	0.10243	2.15%

QC value within limits for Iron,7439-89-6 Recovery = 95.31%

Lead,7439-92-1†	631.1	0.4736 mg/L	0.00800	0.4736 mg/L	0.00800	1.69%

QC value within limits for Lead,7439-92-1 Recovery = 94.72%

Lithium,7439-93-2†	450.4	0.3099 mg/L	0.08231	0.3099 mg/L	0.08231	26.56%

QC value less than the lower limit for Lithium,7439-93-2 Recovery = 61.98%

Magnesium,7439-95-4†	68183.0	4.7819 mg/L	0.09446	4.7819 mg/L	0.09446	1.98%

QC value within limits for Magnesium,7439-95-4 Recovery = 95.64%

Manganese,7439-96-5†	64247.2	0.4663 mg/L	0.01073	0.4663 mg/L	0.01073	2.30%

QC value within limits for Manganese,7439-96-5 Recovery = 93.25%

Molybdenum,7439-98-7†	1489.6	0.4824 mg/L	0.00990	0.4824 mg/L	0.00990	2.05%

QC value within limits for Molybdenum,7439-98-7 Recovery = 96.48%

Nickel,7440-02-0†	5800.4	0.4753 mg/L	0.01028	0.4753 mg/L	0.01028	2.16%

QC value within limits for Nickel,7440-02-0 Recovery = 95.06%

Selenium,7782-49-2†	163.0	0.4603 mg/L	0.01724	0.4603 mg/L	0.01724	3.74%

QC value within limits for Selenium,7782-49-2 Recovery = 92.05%

Silver,7440-22-4†	93062.9	0.4722 mg/L	0.01020	0.4722 mg/L	0.01020	2.16%

QC value within limits for Silver,7440-22-4 Recovery = 94.44%

Strontium,7440-24-6†	26077.4	0.4388 mg/L	0.00801	0.4388 mg/L	0.00801	1.83%

QC value less than the lower limit for Strontium,7440-24-6 Recovery = 87.77%

Thallium,7440-28-0†	97.8	0.4493 mg/L	0.01512	0.4493 mg/L	0.01512	3.37%

QC value within limits for Thallium,7440-28-0 Recovery = 89.87%

Tin,7440-31-5†	263.0	0.4693 mg/L	0.01240	0.4693 mg/L	0.01240	2.64%

QC value within limits for Tin,7440-31-5 Recovery = 93.86%

Titanium,7440-32-6†	165498.6	0.4675 mg/L	0.00745	0.4675 mg/L	0.00745	1.59%

QC value within limits for Titanium,7440-32-6 Recovery = 93.50%

Vanadium,7440-62-2†	79275.5	0.4732 mg/L	0.00962	0.4732 mg/L	0.00962	2.03%

QC value within limits for Vanadium,7440-62-2 Recovery = 94.63%

Zinc,7440-66-6†	10894.2	0.4755 mg/L	0.00877	0.4755 mg/L	0.00877	1.84%

QC value within limits for Zinc,7440-66-6 Recovery = 95.10%

Zirconium,7440-67-7†	147343.8	0.4531 mg/L	0.01993	0.4531 mg/L	0.01993	4.40%

QC value within limits for Zirconium,7440-67-7 Recovery = 90.62%

QC Failed. Continue with analysis.

Sequence No.: 58
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 10:21:22 PM
Data Type: Reprocessed on 6/21/2005 8:26:37 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1158772.9	102.60	%	0.114				0.11%
Yttrium,7440-65-5R	2131013.2	102.54	%	0.127				0.12%
Scandium	1702396.9	102.44	%	0.095				0.09%
Ar 420.069	1283520.4	105.14	%	0.444				0.42%
Aluminum,7429-90-5†	-702.4	-0.0786	mg/L	0.00675	-0.0786	mg/L	0.00675	8.59%

QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated
Antimony,7440-36-0† 0.1 0.0003 mg/L 0.00264 0.0003 mg/L 0.00264 793.06%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated
Arsenic,7440-38-2† 4.2 0.0162 mg/L 0.01458 0.0162 mg/L 0.01458 90.05%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated
Barium,7440-39-3† -13.7 -0.0007 mg/L 0.00093 -0.0007 mg/L 0.00093 142.02%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated
Beryllium,7440-41-7† -9733.6 -0.0010 mg/L 0.00019 -0.0010 mg/L 0.00019 18.42%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated
Boron,7440-42-8† 913.7 0.0143 mg/L 0.00299 0.0143 mg/L 0.00299 20.91%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated
Calcium,7440-70-2† 320.8 0.0050 mg/L 0.00205 0.0050 mg/L 0.00205 40.99%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated
Cadmium,7440-43-9† -3.0 -0.0005 mg/L 0.00033 -0.0005 mg/L 0.00033 63.88%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated
Chromium,7440-47-3† -44.6 -0.0004 mg/L 0.00024 -0.0004 mg/L 0.00024 64.55%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated
Cobalt,7440-48-4† -1.3 -0.0003 mg/L 0.00164 -0.0003 mg/L 0.00164 602.17%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated
Copper,7440-50-8† 320.7 0.0031 mg/L 0.00085 0.0031 mg/L 0.00085 27.14%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated
Iron,7439-89-6† 85.4 0.0113 mg/L 0.00516 0.0113 mg/L 0.00516 45.52%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated
Lead,7439-92-1† -2.1 -0.0016 mg/L 0.00163 -0.0016 mg/L 0.00163 104.27%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated
Lithium,7439-93-2† 12.6 0.0091 mg/L 0.03013 0.0091 mg/L 0.03013 329.50%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated
Magnesium,7439-95-4† 58.3 0.0041 mg/L 0.00159 0.0041 mg/L 0.00159 38.80%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated
Manganese,7439-96-5† 5.5 0.0000 mg/L 0.00013 0.0000 mg/L 0.00013 322.15%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated
Molybdenum,7439-98-7† -0.7 -0.0002 mg/L 0.00301 -0.0002 mg/L 0.00301 >999.9%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated
Nickel,7440-02-0† -6.4 -0.0005 mg/L 0.00020 -0.0005 mg/L 0.00020 38.10%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated
Selenium,7782-49-2† 5.2 0.0146 mg/L 0.00433 0.0146 mg/L 0.00433 29.76%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated
Silver,7440-22-4† -70.2 -0.0004 mg/L 0.00048 -0.0004 mg/L 0.00048 135.68%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated
Strontium,7440-24-6† -3.1 -0.0001 mg/L 0.00106 -0.0001 mg/L 0.00106 >999.9%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated
Thallium,7440-28-0† 1.3 0.0058 mg/L 0.04773 0.0058 mg/L 0.04773 829.96%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated
Tin,7440-31-5† -0.4 -0.0008 mg/L 0.00105 -0.0008 mg/L 0.00105 136.88%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated
Titanium,7440-32-6† -61.1 -0.0002 mg/L 0.00034 -0.0002 mg/L 0.00034 198.87%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated
Vanadium,7440-62-2† 56.2 0.0003 mg/L 0.00035 0.0003 mg/L 0.00035 106.20%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated
Zinc,7440-66-6† 11.0 0.0005 mg/L 0.00045 0.0005 mg/L 0.00045 92.40%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated
Zirconium,7440-67-7† 79.7 0.0002 mg/L 0.00015 0.0002 mg/L 0.00015 61.02%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 59
Sample ID: 20506170507
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 57
Date Collected: 6/20/2005 10:26:18 PM
Data Type: Reprocessed on 6/21/2005 8:26:38 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170507

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1217075.4	107.76	%	1.395				1.29%
Yttrium,7440-65-5R	2237825.6	107.68	%	1.412				1.31%
Scandium	1805300.0	108.63	%	1.506				1.39%
Ar 420.069	1296073.7	106.17	%	0.300				0.28%
Aluminum,7429-90-5†	54329.4	6.0703	mg/L	0.07699	6.0703	mg/L	0.07699	1.27%

Antimony,7440-36-0†	158.0	0.4885 mg/L	0.00834	0.4885 mg/L	0.00834	1.71%
Arsenic,7440-38-2†	130.9	0.5083 mg/L	0.02146	0.5083 mg/L	0.02146	4.22%
Barium,7440-39-3†	11712.1	0.5567 mg/L	0.00777	0.5567 mg/L	0.00777	1.40%
Beryllium,7440-41-7†	4980649.7	0.5225 mg/L	0.01132	0.5225 mg/L	0.01132	2.17%
Boron,7440-42-8†	164413.8	2.5740 mg/L	0.03877	2.5740 mg/L	0.03877	1.51%
Calcium,7440-70-2†	2215595.1	34.556 mg/L	0.6713	34.556 mg/L	0.6713	1.94%
Cadmium,7440-43-9†	3000.5	0.5179 mg/L	0.00569	0.5179 mg/L	0.00569	1.10%
Chromium,7440-47-3†	61205.9	0.5222 mg/L	0.00565	0.5222 mg/L	0.00565	1.08%
Cobalt,7440-48-4†	2561.1	0.5197 mg/L	0.00424	0.5197 mg/L	0.00424	0.82%
Copper,7440-50-8†	50376.2	0.4932 mg/L	0.00360	0.4932 mg/L	0.00360	0.73%
Iron,7439-89-6†	40127.2	5.3135 mg/L	0.07189	5.3135 mg/L	0.07189	1.35%
Lead,7439-92-1†	694.7	0.5215 mg/L	0.00224	0.5215 mg/L	0.00224	0.43%
Lithium,7439-93-2†	627.6	0.4358 mg/L	0.04112	0.4358 mg/L	0.04112	9.44%
Magnesium,7439-95-4†	89746.4	6.2909 mg/L	0.07755	6.2909 mg/L	0.07755	1.23%
Manganese,7439-96-5†	70786.4	0.5137 mg/L	0.00656	0.5137 mg/L	0.00656	1.28%
Molybdenum,7439-98-7†	1614.5	0.5232 mg/L	0.00766	0.5232 mg/L	0.00766	1.46%
Nickel,7440-02-0†	6291.9	0.5155 mg/L	0.00487	0.5155 mg/L	0.00487	0.94%
Selenium,7782-49-2†	186.0	0.5244 mg/L	0.02213	0.5244 mg/L	0.02213	4.22%
Silver,7440-22-4†	100174.6	0.5104 mg/L	0.00877	0.5104 mg/L	0.00877	1.72%
Strontium,7440-24-6†	37598.7	0.6306 mg/L	0.00804	0.6306 mg/L	0.00804	1.28%
Thallium,7440-28-0†	105.1	0.4839 mg/L	0.05848	0.4839 mg/L	0.05848	12.09%
Tin,7440-31-5†	283.0	0.5103 mg/L	0.01207	0.5103 mg/L	0.01207	2.37%
Titanium,7440-32-6†	183018.7	0.5170 mg/L	0.01133	0.5170 mg/L	0.01133	2.19%
Vanadium,7440-62-2†	88014.9	0.5253 mg/L	0.00618	0.5253 mg/L	0.00618	1.18%
Zinc,7440-66-6†	12115.3	0.5240 mg/L	0.00772	0.5240 mg/L	0.00772	1.47%
Zirconium,7440-67-7†	4311.3	0.0129 mg/L	0.00679	0.0129 mg/L	0.00679	52.83%

Sequence No.: 60
Sample ID: 20506170508
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 58
Date Collected: 6/20/2005 10:31:26 PM
Data Type: Reprocessed on 6/21/2005 8:26:39 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170508

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1222233.4	108.22	%	0.448				0.41%
Yttrium,7440-65-5R	2247667.4	108.15	%	0.441				0.41%
Scandium	1812354.2	109.05	%	0.399				0.37%
Ar 420.069	1293706.2	105.98	%	0.498				0.47%
Aluminum,7429-90-5†	54764.0	6.1191	mg/L	0.06250	6.1191	mg/L	0.06250	1.02%
Antimony,7440-36-0†	155.4	0.4803	mg/L	0.01458	0.4803	mg/L	0.01458	3.03%
Arsenic,7440-38-2†	133.1	0.5166	mg/L	0.00535	0.5166	mg/L	0.00535	1.04%
Barium,7440-39-3†	11686.9	0.5555	mg/L	0.00508	0.5555	mg/L	0.00508	0.92%
Beryllium,7440-41-7†	4995354.6	0.5240	mg/L	0.00211	0.5240	mg/L	0.00211	0.40%
Boron,7440-42-8†	166621.2	2.6086	mg/L	0.02869	2.6086	mg/L	0.02869	1.10%
Calcium,7440-70-2†	2145176.7	33.458	mg/L	0.1023	33.458	mg/L	0.1023	0.31%
Cadmium,7440-43-9†	3014.9	0.5204	mg/L	0.00513	0.5204	mg/L	0.00513	0.99%
Chromium,7440-47-3†	61365.5	0.5235	mg/L	0.00429	0.5235	mg/L	0.00429	0.82%
Cobalt,7440-48-4†	2566.5	0.5207	mg/L	0.00441	0.5207	mg/L	0.00441	0.85%
Copper,7440-50-8†	50183.7	0.4913	mg/L	0.00529	0.4913	mg/L	0.00529	1.08%
Iron,7439-89-6†	40345.9	5.3425	mg/L	0.05176	5.3425	mg/L	0.05176	0.97%
Lead,7439-92-1†	692.5	0.5198	mg/L	0.00784	0.5198	mg/L	0.00784	1.51%
Lithium,7439-93-2†	725.1	0.5065	mg/L	0.04552	0.5065	mg/L	0.04552	8.99%
Magnesium,7439-95-4†	89716.7	6.2890	mg/L	0.05561	6.2890	mg/L	0.05561	0.88%
Manganese,7439-96-5†	70709.8	0.5132	mg/L	0.00314	0.5132	mg/L	0.00314	0.61%
Molybdenum,7439-98-7†	1627.9	0.5275	mg/L	0.00898	0.5275	mg/L	0.00898	1.70%
Nickel,7440-02-0†	6303.7	0.5165	mg/L	0.00530	0.5165	mg/L	0.00530	1.03%
Selenium,7782-49-2†	190.0	0.5357	mg/L	0.01372	0.5357	mg/L	0.01372	2.56%
Silver,7440-22-4†	100227.4	0.5106	mg/L	0.00409	0.5106	mg/L	0.00409	0.80%
Strontium,7440-24-6†	37449.9	0.6282	mg/L	0.00582	0.6282	mg/L	0.00582	0.93%
Thallium,7440-28-0†	101.9	0.4691	mg/L	0.05355	0.4691	mg/L	0.05355	11.41%
Tin,7440-31-5†	281.2	0.5071	mg/L	0.00729	0.5071	mg/L	0.00729	1.44%
Titanium,7440-32-6†	187230.7	0.5289	mg/L	0.00189	0.5289	mg/L	0.00189	0.36%
Vanadium,7440-62-2†	88326.0	0.5271	mg/L	0.00449	0.5271	mg/L	0.00449	0.85%
Zinc,7440-66-6†	12162.5	0.5263	mg/L	0.00544	0.5263	mg/L	0.00544	1.03%
Zirconium,7440-67-7†	575.3	0.0013	mg/L	0.00040	0.0013	mg/L	0.00040	30.11%

Sequence No.: 61
Sample ID: 251079
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 59
Date Collected: 6/20/2005 10:37:01 PM
Data Type: Reprocessed on 6/21/2005 8:26:41 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251079

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1226331.3	108.58	%	0.336				0.31%
Yttrium,7440-65-5R	2255497.8	108.53	%	0.364				0.34%
Scandium	1819554.5	109.48	%	0.327				0.30%
Ar 420.069	1286048.1	105.35	%	0.082				0.08%
Aluminum,7429-90-5†	50039.1	5.5907	mg/L	0.06353	5.5907	mg/L	0.06353	1.14%
Antimony,7440-36-0†	145.9	0.4508	mg/L	0.02712	0.4508	mg/L	0.02712	6.02%
Arsenic,7440-38-2†	119.4	0.4637	mg/L	0.00913	0.4637	mg/L	0.00913	1.97%
Barium,7440-39-3†	10900.0	0.5180	mg/L	0.00592	0.5180	mg/L	0.00592	1.14%
Beryllium,7440-41-7†	4586108.7	0.4811	mg/L	0.00223	0.4811	mg/L	0.00223	0.46%
Boron,7440-42-8†	155126.0	2.4286	mg/L	0.02145	2.4286	mg/L	0.02145	0.88%
Calcium,7440-70-2†	2106956.1	32.862	mg/L	0.2213	32.862	mg/L	0.2213	0.67%
Cadmium,7440-43-9†	2790.6	0.4817	mg/L	0.00156	0.4817	mg/L	0.00156	0.32%
Chromium,7440-47-3†	56931.8	0.4857	mg/L	0.00432	0.4857	mg/L	0.00432	0.89%
Cobalt,7440-48-4†	2367.4	0.4803	mg/L	0.00171	0.4803	mg/L	0.00171	0.36%
Copper,7440-50-8†	46410.5	0.4544	mg/L	0.00537	0.4544	mg/L	0.00537	1.18%
Iron,7439-89-6†	37282.2	4.9368	mg/L	0.04470	4.9368	mg/L	0.04470	0.91%
Lead,7439-92-1†	638.4	0.4792	mg/L	0.00411	0.4792	mg/L	0.00411	0.86%
Lithium,7439-93-2†	618.0	0.4302	mg/L	0.05088	0.4302	mg/L	0.05088	11.83%
Magnesium,7439-95-4†	83975.5	5.8864	mg/L	0.04590	5.8864	mg/L	0.04590	0.78%
Manganese,7439-96-5†	65574.4	0.4759	mg/L	0.00431	0.4759	mg/L	0.00431	0.91%
Molybdenum,7439-98-7†	1497.9	0.4854	mg/L	0.00213	0.4854	mg/L	0.00213	0.44%
Nickel,7440-02-0†	5797.0	0.4750	mg/L	0.00139	0.4750	mg/L	0.00139	0.29%
Selenium,7782-49-2†	173.3	0.4885	mg/L	0.02205	0.4885	mg/L	0.02205	4.51%
Silver,7440-22-4†	93593.6	0.4769	mg/L	0.00437	0.4769	mg/L	0.00437	0.92%
Strontium,7440-24-6†	34891.2	0.5852	mg/L	0.00232	0.5852	mg/L	0.00232	0.40%
Thallium,7440-28-0†	104.0	0.4784	mg/L	0.00183	0.4784	mg/L	0.00183	0.38%
Tin,7440-31-5†	258.6	0.4668	mg/L	0.00516	0.4668	mg/L	0.00516	1.10%
Titanium,7440-32-6†	173578.5	0.4903	mg/L	0.00348	0.4903	mg/L	0.00348	0.71%
Vanadium,7440-62-2†	81925.8	0.4890	mg/L	0.00490	0.4890	mg/L	0.00490	1.00%
Zinc,7440-66-6†	11301.8	0.4888	mg/L	0.00600	0.4888	mg/L	0.00600	1.23%
Zirconium,7440-67-7†	329.3	0.0006	mg/L	0.00061	0.0006	mg/L	0.00061	98.37%

Sequence No.: 62
Sample ID: 251078
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 60
Date Collected: 6/20/2005 10:42:08 PM
Data Type: Reprocessed on 6/21/2005 8:26:42 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251078

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1180838.5	104.55	%	0.762				0.73%
Yttrium,7440-65-5R	2171620.7	104.49	%	0.766				0.73%
Scandium	1749697.5	105.28	%	0.773				0.73%
Ar 420.069	1292211.3	105.85	%	0.795				0.75%
Aluminum,7429-90-5†	763.7	0.0845	mg/L	0.00910	0.4227	mg/L	0.04548	10.76%
Antimony,7440-36-0†	5.0	0.0161	mg/L	0.02319	0.0804	mg/L	0.11595	144.24%
Arsenic,7440-38-2†	0.3	0.0014	mg/L	0.01344	0.0069	mg/L	0.06719	978.90%
Barium,7440-39-3†	156.8	0.0072	mg/L	0.00020	0.0360	mg/L	0.00099	2.75%
Beryllium,7440-41-7†	-13667.3	-0.0014	mg/L	0.00024	-0.0072	mg/L	0.00120	16.67%
Boron,7440-42-8†	2852.3	0.0448	mg/L	0.00231	0.2238	mg/L	0.01155	5.16%
Calcium,7440-70-2†	373805.1	5.8303	mg/L	0.00601	29.151	mg/L	0.0301	0.10%
Cadmium,7440-43-9†	-4.3	-0.0007	mg/L	0.00188	-0.0037	mg/L	0.00938	250.95%
Chromium,7440-47-3†	-46.8	-0.0003	mg/L	0.00024	-0.0017	mg/L	0.00121	69.44%
Cobalt,7440-48-4†	-4.4	-0.0009	mg/L	0.00057	-0.0046	mg/L	0.00284	62.38%
Copper,7440-50-8†	371.3	0.0037	mg/L	0.00006	0.0184	mg/L	0.00030	1.66%
Iron,7439-89-6†	244.6	0.0324	mg/L	0.00269	0.1621	mg/L	0.01346	8.30%
Lead,7439-92-1†	-3.2	-0.0024	mg/L	0.00160	-0.0120	mg/L	0.00799	66.81%

Lithium,7439-93-2†	-4.6	-0.0036 mg/L	0.08030	-0.0182 mg/L	0.40149	>999.9%
Magnesium,7439-95-4†	3105.2	0.2171 mg/L	0.00619	1.0857 mg/L	0.03095	2.85%
Manganese,7439-96-5†	95.3	0.0007 mg/L	0.00015	0.0035 mg/L	0.00077	22.30%
Molybdenum,7439-98-7†	4.5	0.0015 mg/L	0.00089	0.0076 mg/L	0.00444	58.17%
Nickel,7440-02-0†	-8.2	-0.0007 mg/L	0.00161	-0.0034 mg/L	0.00805	238.33%
Selenium,7782-49-2†	4.3	0.0120 mg/L	0.01463	0.0600 mg/L	0.07313	121.83%
Silver,7440-22-4†	-229.2	-0.0008 mg/L	0.00056	-0.0038 mg/L	0.00278	74.05%
Strontium,7440-24-6†	1014.0	0.0166 mg/L	0.00089	0.0832 mg/L	0.00446	5.35%
Thallium,7440-28-0†	-1.8	-0.0079 mg/L	0.03503	-0.0393 mg/L	0.17516	445.33%
Tin,7440-31-5†	0.5	0.0019 mg/L	0.00486	0.0096 mg/L	0.02429	254.21%
Titanium,7440-32-6†	1582.1	0.0045 mg/L	0.00019	0.0223 mg/L	0.00097	4.35%
Vanadium,7440-62-2†	206.3	0.0012 mg/L	0.00023	0.0061 mg/L	0.00113	18.51%
Zinc,7440-66-6†	108.4	0.0038 mg/L	0.00064	0.0190 mg/L	0.00320	16.84%
Zirconium,7440-67-7†	-547.4	-0.0017 mg/L	0.00048	-0.0084 mg/L	0.00238	28.38%

Sequence No.: 63
Sample ID: 20506170509
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 61
Date Collected: 6/20/2005 10:47:10 PM
Data Type: Reprocessed on 6/21/2005 8:26:43 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170509

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1229872.5	108.89	%	1.864				1.71%
Yttrium,7440-65-5R	2262623.4	108.87	%	1.848				1.70%
Scandium	1824728.3	109.80	%	1.922				1.75%
Ar 420.069	1295540.5	106.13	%	0.393				0.37%
Aluminum,7429-90-5†	6423.3	0.7145	mg/L	0.02962	0.7145	mg/L	0.02962	4.15%
Antimony,7440-36-0†	-2.4	-0.0074	mg/L	0.00510	-0.0074	mg/L	0.00510	69.24%
Arsenic,7440-38-2†	6.9	0.0272	mg/L	0.00739	0.0272	mg/L	0.00739	27.17%
Barium,7440-39-3†	743.7	0.0342	mg/L	0.00099	0.0342	mg/L	0.00099	2.90%
Beryllium,7440-41-7†	-21485.2	-0.0023	mg/L	0.00025	-0.0023	mg/L	0.00025	10.98%
Boron,7440-42-8†	2981.4	0.0472	mg/L	0.00023	0.0472	mg/L	0.00023	0.49%
Calcium,7440-70-2†	1764836.8	27.526	mg/L	0.6500	27.526	mg/L	0.6500	2.36%
Cadmium,7440-43-9†	-4.0	-0.0007	mg/L	0.00098	-0.0007	mg/L	0.00098	137.94%
Chromium,7440-47-3†	109.3	0.0011	mg/L	0.00053	0.0011	mg/L	0.00053	48.27%
Cobalt,7440-48-4†	-7.0	-0.0015	mg/L	0.00182	-0.0015	mg/L	0.00182	123.91%
Copper,7440-50-8†	306.9	0.0032	mg/L	0.00119	0.0032	mg/L	0.00119	37.24%
Iron,7439-89-6†	684.9	0.0907	mg/L	0.00118	0.0907	mg/L	0.00118	1.30%
Lead,7439-92-1†	-4.7	-0.0034	mg/L	0.00346	-0.0034	mg/L	0.00346	100.58%
Lithium,7439-93-2†	-104.6	-0.0770	mg/L	0.05016	-0.0770	mg/L	0.05016	65.12%
Magnesium,7439-95-4†	14591.4	1.0203	mg/L	0.01599	1.0203	mg/L	0.01599	1.57%
Manganese,7439-96-5†	431.0	0.0031	mg/L	0.00016	0.0031	mg/L	0.00016	5.14%
Molybdenum,7439-98-7†	-3.0	-0.0006	mg/L	0.00100	-0.0006	mg/L	0.00100	160.37%
Nickel,7440-02-0†	-4.7	-0.0004	mg/L	0.00048	-0.0004	mg/L	0.00048	114.18%
Selenium,7782-49-2†	7.2	0.0195	mg/L	0.02022	0.0195	mg/L	0.02022	103.74%
Silver,7440-22-4†	-511.4	-0.0007	mg/L	0.00028	-0.0007	mg/L	0.00028	42.57%
Strontium,7440-24-6†	4910.6	0.0806	mg/L	0.00209	0.0806	mg/L	0.00209	2.59%
Thallium,7440-28-0†	-2.5	-0.0104	mg/L	0.02043	-0.0104	mg/L	0.02043	196.07%
Tin,7440-31-5†	-2.4	0.0008	mg/L	0.00355	0.0008	mg/L	0.00355	467.13%
Titanium,7440-32-6†	6292.1	0.0178	mg/L	0.00110	0.0178	mg/L	0.00110	6.17%
Vanadium,7440-62-2†	946.9	0.0056	mg/L	0.00028	0.0056	mg/L	0.00028	4.98%
Zinc,7440-66-6†	312.9	0.0092	mg/L	0.00039	0.0092	mg/L	0.00039	4.23%
Zirconium,7440-67-7†	-438.4	-0.0013	mg/L	0.00027	-0.0013	mg/L	0.00027	20.94%

Sequence No.: 64
Sample ID: 20506170502
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 62
Date Collected: 6/20/2005 10:52:13 PM
Data Type: Reprocessed on 6/21/2005 8:26:44 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170502

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1220048.7	108.02	%	1.892				1.75%

Yttrium,7440-65-5R	2244645.3	108.00 %	1.885			1.75%
Scandium	1809096.3	108.86 %	1.889			1.74%
Ar 420.069	1293666.6	105.97 %	0.389			0.37%
Aluminum,7429-90-5†	6763.7	0.7531 mg/L	0.04573	0.7531 mg/L	0.04573	6.07%
Antimony,7440-36-0†	1.8	0.0061 mg/L	0.01885	0.0061 mg/L	0.01885	307.55%
Arsenic,7440-38-2†	0.2	0.0016 mg/L	0.00777	0.0016 mg/L	0.00777	484.94%
Barium,7440-39-3†	157.1	0.0064 mg/L	0.00045	0.0064 mg/L	0.00045	7.03%
Beryllium,7440-41-7†	-18609.7	-0.0020 mg/L	0.00028	-0.0020 mg/L	0.00028	14.07%
Boron,7440-42-8†	1976.2	0.0315 mg/L	0.00082	0.0315 mg/L	0.00082	2.62%
Calcium,7440-70-2†	1541865.5	24.049 mg/L	0.3856	24.049 mg/L	0.3856	1.60%
Cadmium,7440-43-9†	-4.6	-0.0008 mg/L	0.00082	-0.0008 mg/L	0.00082	100.88%
Chromium,7440-47-3†	177.3	0.0017 mg/L	0.00011	0.0017 mg/L	0.00011	6.56%
Cobalt,7440-48-4†	1.8	0.0004 mg/L	0.00106	0.0004 mg/L	0.00106	303.44%
Copper,7440-50-8†	263.9	0.0027 mg/L	0.00130	0.0027 mg/L	0.00130	47.45%
Iron,7439-89-6†	1174.9	0.1556 mg/L	0.00125	0.1556 mg/L	0.00125	0.81%
Lead,7439-92-1†	22.0	0.0166 mg/L	0.00431	0.0166 mg/L	0.00431	25.88%
Lithium,7439-93-2†	-5.8	-0.0054 mg/L	0.01823	-0.0054 mg/L	0.01823	337.23%
Magnesium,7439-95-4†	36736.2	2.5733 mg/L	0.08759	2.5733 mg/L	0.08759	3.40%
Manganese,7439-96-5†	1843.6	0.0134 mg/L	0.00064	0.0134 mg/L	0.00064	4.81%
Molybdenum,7439-98-7†	0.3	0.0004 mg/L	0.00134	0.0004 mg/L	0.00134	308.31%
Nickel,7440-02-0†	-13.1	-0.0011 mg/L	0.00012	-0.0011 mg/L	0.00012	10.66%
Selenium,7782-49-2†	12.1	0.0337 mg/L	0.01779	0.0337 mg/L	0.01779	52.84%
Silver,7440-22-4†	-443.0	-0.0006 mg/L	0.00054	-0.0006 mg/L	0.00054	96.30%
Strontium,7440-24-6†	2430.1	0.0391 mg/L	0.00137	0.0391 mg/L	0.00137	3.51%
Thallium,7440-28-0†	-6.6	-0.0296 mg/L	0.04605	-0.0296 mg/L	0.04605	155.42%
Tin,7440-31-5†	-5.9	-0.0058 mg/L	0.00747	-0.0058 mg/L	0.00747	127.98%
Titanium,7440-32-6†	2057.8	0.0058 mg/L	0.00049	0.0058 mg/L	0.00049	8.41%
Vanadium,7440-62-2†	1148.4	0.0068 mg/L	0.00039	0.0068 mg/L	0.00039	5.69%
Zinc,7440-66-6†	252.2	0.0071 mg/L	0.00058	0.0071 mg/L	0.00058	8.19%
Zirconium,7440-67-7†	-709.1	-0.0021 mg/L	0.00030	-0.0021 mg/L	0.00030	13.99%

Sequence No.: 65
Sample ID: 20506170503
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 63
Date Collected: 6/20/2005 10:57:16 PM
Data Type: Reprocessed on 6/21/2005 8:26:45 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170503

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1211076.0	107.23	%	0.335				0.31%
Yttrium,7440-65-5R	2228016.7	107.20	%	0.322				0.30%
Scandium	1795796.4	108.06	%	0.325				0.30%
Ar 420.069	1300566.5	106.54	%	0.300				0.28%
Aluminum,7429-90-5†	3589.8	0.3984	mg/L	0.00505	0.3984	mg/L	0.00505	1.27%
Antimony,7440-36-0†	4.4	0.0143	mg/L	0.00281	0.0143	mg/L	0.00281	19.61%
Arsenic,7440-38-2†	8.1	0.0315	mg/L	0.01920	0.0315	mg/L	0.01920	61.02%
Barium,7440-39-3†	34.0	0.0007	mg/L	0.00029	0.0007	mg/L	0.00029	43.08%
Beryllium,7440-41-7†	-17880.4	-0.0019	mg/L	0.00008	-0.0019	mg/L	0.00008	4.27%
Boron,7440-42-8†	1267.1	0.0203	mg/L	0.00060	0.0203	mg/L	0.00060	2.97%
Calcium,7440-70-2†	1336669.3	20.848	mg/L	0.0969	20.848	mg/L	0.0969	0.46%
Cadmium,7440-43-9†	-6.3	-0.0011	mg/L	0.00117	-0.0011	mg/L	0.00117	105.07%
Chromium,7440-47-3†	53.0	0.0006	mg/L	0.00036	0.0006	mg/L	0.00036	60.52%
Cobalt,7440-48-4†	-6.4	-0.0013	mg/L	0.00065	-0.0013	mg/L	0.00065	49.40%
Copper,7440-50-8†	224.2	0.0023	mg/L	0.00052	0.0023	mg/L	0.00052	22.28%
Iron,7439-89-6†	429.2	0.0568	mg/L	0.00084	0.0568	mg/L	0.00084	1.47%
Lead,7439-92-1†	-1.9	-0.0013	mg/L	0.00327	-0.0013	mg/L	0.00327	246.19%
Lithium,7439-93-2†	-35.8	-0.0267	mg/L	0.03480	-0.0267	mg/L	0.03480	130.11%
Magnesium,7439-95-4†	10951.7	0.7658	mg/L	0.00637	0.7658	mg/L	0.00637	0.83%
Manganese,7439-96-5†	359.4	0.0026	mg/L	0.00008	0.0026	mg/L	0.00008	2.93%
Molybdenum,7439-98-7†	6.2	0.0023	mg/L	0.00148	0.0023	mg/L	0.00148	65.12%
Nickel,7440-02-0†	-10.8	-0.0009	mg/L	0.00074	-0.0009	mg/L	0.00074	81.70%
Selenium,7782-49-2†	6.5	0.0177	mg/L	0.01087	0.0177	mg/L	0.01087	61.44%
Silver,7440-22-4†	-377.5	-0.0004	mg/L	0.00003	-0.0004	mg/L	0.00003	7.06%
Strontium,7440-24-6†	1673.7	0.0266	mg/L	0.00249	0.0266	mg/L	0.00249	9.36%
Thallium,7440-28-0†	-0.6	-0.0022	mg/L	0.00720	-0.0022	mg/L	0.00720	332.55%
Tin,7440-31-5†	-3.3	-0.0020	mg/L	0.00103	-0.0020	mg/L	0.00103	51.14%
Titanium,7440-32-6†	2050.8	0.0058	mg/L	0.00051	0.0058	mg/L	0.00051	8.89%
Vanadium,7440-62-2†	1040.7	0.0062	mg/L	0.00025	0.0062	mg/L	0.00025	4.09%

Zinc,7440-66-6†	242.6	0.0072 mg/L	0.00022	0.0072 mg/L	0.00022	3.10%
Zirconium,7440-67-7†	-782.4	-0.0024 mg/L	0.00008	-0.0024 mg/L	0.00008	3.40%

Sequence No.: 66
Sample ID: 20506170504
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 64
Date Collected: 6/20/2005 11:02:11 PM
Data Type: Reprocessed on 6/21/2005 8:26:46 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170504

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1217342.7	107.79	%	1.996				1.85%
Yttrium,7440-65-5R	2239605.0	107.76	%	1.999				1.86%
Scandium	1802458.2	108.46	%	2.056				1.90%
Ar 420.069	1292111.4	105.85	%	0.184				0.17%
Aluminum,7429-90-5†	50745.6	5.6738	mg/L	0.15300	5.6738	mg/L	0.15300	2.70%
Antimony,7440-36-0†	-3.1	-0.0096	mg/L	0.00740	-0.0096	mg/L	0.00740	77.22%
Arsenic,7440-38-2†	3.2	0.0134	mg/L	0.01332	0.0134	mg/L	0.01332	99.45%
Barium,7440-39-3†	122.2	0.0041	mg/L	0.00029	0.0041	mg/L	0.00029	7.03%
Beryllium,7440-41-7†	-17531.8	-0.0018	mg/L	0.00037	-0.0018	mg/L	0.00037	20.35%
Boron,7440-42-8†	824.1	0.0138	mg/L	0.00092	0.0138	mg/L	0.00092	6.64%
Calcium,7440-70-2†	2467900.3	38.492	mg/L	0.5395	38.492	mg/L	0.5395	1.40%
Cadmium,7440-43-9†	-1.1	-0.0002	mg/L	0.00064	-0.0002	mg/L	0.00064	417.99%
Chromium,7440-47-3†	525.5	0.0043	mg/L	0.00040	0.0043	mg/L	0.00040	9.38%
Cobalt,7440-48-4†	-0.6	-0.0003	mg/L	0.00100	-0.0003	mg/L	0.00100	344.09%
Copper,7440-50-8†	290.4	0.0031	mg/L	0.00088	0.0031	mg/L	0.00088	27.96%
Iron,7439-89-6†	5153.7	0.6821	mg/L	0.01530	0.6821	mg/L	0.01530	2.24%
Lead,7439-92-1†	-3.2	-0.0018	mg/L	0.00104	-0.0018	mg/L	0.00104	56.70%
Lithium,7439-93-2†	-26.9	-0.0233	mg/L	0.04226	-0.0233	mg/L	0.04226	181.58%
Magnesium,7439-95-4†	7804.7	0.5437	mg/L	0.01101	0.5437	mg/L	0.01101	2.03%
Manganese,7439-96-5†	340.5	0.0025	mg/L	0.00032	0.0025	mg/L	0.00032	12.59%
Molybdenum,7439-98-7†	-0.2	0.0004	mg/L	0.00207	0.0004	mg/L	0.00207	490.58%
Nickel,7440-02-0†	-5.5	-0.0005	mg/L	0.00063	-0.0005	mg/L	0.00063	122.20%
Selenium,7782-49-2†	9.5	0.0262	mg/L	0.02038	0.0262	mg/L	0.02038	77.91%
Silver,7440-22-4†	-620.8	-0.0005	mg/L	0.00055	-0.0005	mg/L	0.00055	113.29%
Strontium,7440-24-6†	4840.7	0.0786	mg/L	0.00173	0.0786	mg/L	0.00173	2.20%
Thallium,7440-28-0†	0.4	0.0033	mg/L	0.03816	0.0033	mg/L	0.03816	>999.9%
Tin,7440-31-5†	-5.7	-0.0029	mg/L	0.00282	-0.0029	mg/L	0.00282	98.64%
Titanium,7440-32-6†	25814.4	0.0729	mg/L	0.00108	0.0729	mg/L	0.00108	1.49%
Vanadium,7440-62-2†	780.3	0.0046	mg/L	0.00031	0.0046	mg/L	0.00031	6.74%
Zinc,7440-66-6†	435.5	0.0127	mg/L	0.00034	0.0127	mg/L	0.00034	2.69%
Zirconium,7440-67-7†	-141.0	-0.0004	mg/L	0.00091	-0.0004	mg/L	0.00091	222.23%

Sequence No.: 67
Sample ID: 20506170506
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 65
Date Collected: 6/20/2005 11:07:34 PM
Data Type: Reprocessed on 6/21/2005 8:26:47 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170506

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1213032.0	107.40	%	0.774				0.72%
Yttrium,7440-65-5R	2231814.2	107.39	%	0.820				0.76%
Scandium	1796362.8	108.09	%	0.745				0.69%
Ar 420.069	1291663.8	105.81	%	0.702				0.66%
Aluminum,7429-90-5†	3768.7	0.4190	mg/L	0.01115	0.4190	mg/L	0.01115	2.66%
Antimony,7440-36-0†	-2.9	-0.0089	mg/L	0.01060	-0.0089	mg/L	0.01060	119.25%
Arsenic,7440-38-2†	3.1	0.0123	mg/L	0.01648	0.0123	mg/L	0.01648	134.33%
Barium,7440-39-3†	165.2	0.0071	mg/L	0.00034	0.0071	mg/L	0.00034	4.83%
Beryllium,7440-41-7†	-17433.9	-0.0019	mg/L	0.00005	-0.0019	mg/L	0.00005	2.71%
Boron,7440-42-8†	722.4	0.0117	mg/L	0.00069	0.0117	mg/L	0.00069	5.92%
Calcium,7440-70-2†	1107244.2	17.270	mg/L	0.0931	17.270	mg/L	0.0931	0.54%
Cadmium,7440-43-9†	-3.9	-0.0007	mg/L	0.00049	-0.0007	mg/L	0.00049	71.49%
Chromium,7440-47-3†	-11.6	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	150.52%

Cobalt,7440-48-4†	-6.4	-0.0013 mg/L	0.00099	-0.0013 mg/L	0.00099	74.41%
Copper,7440-50-8†	300.0	0.0031 mg/L	0.00109	0.0031 mg/L	0.00109	35.74%
Iron,7439-89-6†	819.5	0.1086 mg/L	0.00267	0.1086 mg/L	0.00267	2.46%
Lead,7439-92-1†	-3.9	-0.0029 mg/L	0.00258	-0.0029 mg/L	0.00258	90.40%
Lithium,7439-93-2†	-19.6	-0.0151 mg/L	0.02738	-0.0151 mg/L	0.02738	181.44%
Magnesium,7439-95-4†	5193.2	0.3624 mg/L	0.00428	0.3624 mg/L	0.00428	1.18%
Manganese,7439-96-5†	218.9	0.0016 mg/L	0.00017	0.0016 mg/L	0.00017	10.45%
Molybdenum,7439-98-7†	-2.0	-0.0004 mg/L	0.00065	-0.0004 mg/L	0.00065	153.39%
Nickel,7440-02-0†	-12.2	-0.0010 mg/L	0.00195	-0.0010 mg/L	0.00195	191.72%
Selenium,7782-49-2†	16.8	0.0468 mg/L	0.00794	0.0468 mg/L	0.00794	16.95%
Silver,7440-22-4†	-412.0	-0.0009 mg/L	0.00045	-0.0009 mg/L	0.00045	51.17%
Strontium,7440-24-6†	1122.5	0.0176 mg/L	0.00224	0.0176 mg/L	0.00224	12.73%
Thallium,7440-28-0†	2.1	0.0102 mg/L	0.03497	0.0102 mg/L	0.03497	341.65%
Tin,7440-31-5†	-5.2	-0.0061 mg/L	0.00243	-0.0061 mg/L	0.00243	40.06%
Titanium,7440-32-6†	3636.8	0.0103 mg/L	0.00095	0.0103 mg/L	0.00095	9.25%
Vanadium,7440-62-2†	857.0	0.0051 mg/L	0.00029	0.0051 mg/L	0.00029	5.76%
Zinc,7440-66-6†	311.9	0.0109 mg/L	0.00025	0.0109 mg/L	0.00025	2.33%
Zirconium,7440-67-7†	-679.9	-0.0021 mg/L	0.00044	-0.0021 mg/L	0.00044	21.27%

Sequence No.: 68
Sample ID: 20506170501
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 66
Date Collected: 6/20/2005 11:12:31 PM
Data Type: Reprocessed on 6/21/2005 8:26:49 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170501

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1222362.8	108.23	%	1.722				1.59%
Yttrium,7440-65-5R	2249328.7	108.23	%	1.736				1.60%
Scandium	1813227.9	109.10	%	1.741				1.60%
Ar 420.069	1289079.2	105.60	%	0.535				0.51%
Aluminum,7429-90-5†	3179.0	0.3495	mg/L	0.03005	0.3495	mg/L	0.03005	8.60%
Antimony,7440-36-0†	-0.4	-0.0008	mg/L	0.02268	-0.0008	mg/L	0.02268	>999.9%
Arsenic,7440-38-2†	7.3	0.0290	mg/L	0.01729	0.0290	mg/L	0.01729	59.65%
Barium,7440-39-3†	100.6	0.0030	mg/L	0.00021	0.0030	mg/L	0.00021	7.11%
Beryllium,7440-41-7†	-20798.0	-0.0022	mg/L	0.00031	-0.0022	mg/L	0.00031	14.19%
Boron,7440-42-8†	405.2	0.0072	mg/L	0.00061	0.0072	mg/L	0.00061	8.38%
Calcium,7440-70-2†	2539545.0	39.610	mg/L	0.5866	39.610	mg/L	0.5866	1.48%
Cadmium,7440-43-9†	1.1	0.0001	mg/L	0.00077	0.0001	mg/L	0.00077	532.06%
Chromium,7440-47-3†	68.7	0.0010	mg/L	0.00059	0.0010	mg/L	0.00059	59.85%
Cobalt,7440-48-4†	-9.9	-0.0020	mg/L	0.00070	-0.0020	mg/L	0.00070	33.93%
Copper,7440-50-8†	208.1	0.0023	mg/L	0.00110	0.0023	mg/L	0.00110	47.51%
Iron,7439-89-6†	2017.2	0.2675	mg/L	0.00280	0.2675	mg/L	0.00280	1.05%
Lead,7439-92-1†	1.1	0.0009	mg/L	0.00405	0.0009	mg/L	0.00405	465.95%
Lithium,7439-93-2†	-93.8	-0.0701	mg/L	0.03583	-0.0701	mg/L	0.03583	51.14%
Magnesium,7439-95-4†	10550.6	0.7359	mg/L	0.01601	0.7359	mg/L	0.01601	2.18%
Manganese,7439-96-5†	257.5	0.0019	mg/L	0.00014	0.0019	mg/L	0.00014	7.71%
Molybdenum,7439-98-7†	-4.4	-0.0009	mg/L	0.00213	-0.0009	mg/L	0.00213	228.47%
Nickel,7440-02-0†	-3.7	-0.0003	mg/L	0.00031	-0.0003	mg/L	0.00031	89.81%
Selenium,7782-49-2†	8.1	0.0219	mg/L	0.00187	0.0219	mg/L	0.00187	8.53%
Silver,7440-22-4†	-620.5	-0.0004	mg/L	0.00034	-0.0004	mg/L	0.00034	86.33%
Strontium,7440-24-6†	2458.3	0.0384	mg/L	0.00096	0.0384	mg/L	0.00096	2.49%
Thallium,7440-28-0†	-0.6	-0.0016	mg/L	0.01652	-0.0016	mg/L	0.01652	>999.9%
Tin,7440-31-5†	-7.0	-0.0053	mg/L	0.00535	-0.0053	mg/L	0.00535	101.34%
Titanium,7440-32-6†	2239.1	0.0063	mg/L	0.00017	0.0063	mg/L	0.00017	2.63%
Vanadium,7440-62-2†	352.6	0.0021	mg/L	0.00039	0.0021	mg/L	0.00039	18.96%
Zinc,7440-66-6†	413.6	0.0116	mg/L	0.00050	0.0116	mg/L	0.00050	4.35%
Zirconium,7440-67-7†	-595.9	-0.0017	mg/L	0.00039	-0.0017	mg/L	0.00039	22.53%

Sequence No.: 69
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/20/2005 11:17:28 PM
Data Type: Reprocessed on 6/21/2005 8:26:50 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1213883.0	107.48	%	0.487				0.45%
Yttrium,7440-65-5R	2232767.4	107.43	%	0.497				0.46%
Scandium	1801567.4	108.40	%	0.442				0.41%
Ar 420.069	1306362.6	107.01	%	1.006				0.94%
Aluminum,7429-90-5†	41084.8	4.5932	mg/L	0.11866	4.5932	mg/L	0.11866	2.58%
QC value within limits for Aluminum,7429-90-5 Recovery = 91.86%								
Antimony,7440-36-0†	148.6	0.4593	mg/L	0.01556	0.4593	mg/L	0.01556	3.39%
QC value within limits for Antimony,7440-36-0 Recovery = 91.85%								
Arsenic,7440-38-2†	124.1	0.4809	mg/L	0.01239	0.4809	mg/L	0.01239	2.58%
QC value within limits for Arsenic,7440-38-2 Recovery = 96.17%								
Barium,7440-39-3†	10004.7	0.4767	mg/L	0.01035	0.4767	mg/L	0.01035	2.17%
QC value within limits for Barium,7440-39-3 Recovery = 95.33%								
Beryllium,7440-41-7†	4488085.9	0.4708	mg/L	0.00029	0.4708	mg/L	0.00029	0.06%
QC value within limits for Beryllium,7440-41-7 Recovery = 94.17%								
Boron,7440-42-8†	148483.0	2.3241	mg/L	0.06440	2.3241	mg/L	0.06440	2.77%
QC value within limits for Boron,7440-42-8 Recovery = 92.96%								
Calcium,7440-70-2†	300956.2	4.6934	mg/L	0.10630	4.6934	mg/L	0.10630	2.26%
QC value within limits for Calcium,7440-70-2 Recovery = 93.87%								
Cadmium,7440-43-9†	2755.8	0.4757	mg/L	0.00427	0.4757	mg/L	0.00427	0.90%
QC value within limits for Cadmium,7440-43-9 Recovery = 95.14%								
Chromium,7440-47-3†	55678.2	0.4749	mg/L	0.01149	0.4749	mg/L	0.01149	2.42%
QC value within limits for Chromium,7440-47-3 Recovery = 94.97%								
Cobalt,7440-48-4†	2334.5	0.4737	mg/L	0.00380	0.4737	mg/L	0.00380	0.80%
QC value within limits for Cobalt,7440-48-4 Recovery = 94.74%								
Copper,7440-50-8†	46455.5	0.4546	mg/L	0.01259	0.4546	mg/L	0.01259	2.77%
QC value within limits for Copper,7440-50-8 Recovery = 90.93%								
Iron,7439-89-6†	35852.8	4.7476	mg/L	0.11061	4.7476	mg/L	0.11061	2.33%
QC value within limits for Iron,7439-89-6 Recovery = 94.95%								
Lead,7439-92-1†	636.8	0.4779	mg/L	0.00718	0.4779	mg/L	0.00718	1.50%
QC value within limits for Lead,7439-92-1 Recovery = 95.58%								
Lithium,7439-93-2†	498.5	0.3448	mg/L	0.02175	0.3448	mg/L	0.02175	6.31%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 68.96%								
Magnesium,7439-95-4†	67874.9	4.7602	mg/L	0.10450	4.7602	mg/L	0.10450	2.20%
QC value within limits for Magnesium,7439-95-4 Recovery = 95.20%								
Manganese,7439-96-5†	63991.9	0.4644	mg/L	0.00998	0.4644	mg/L	0.00998	2.15%
QC value within limits for Manganese,7439-96-5 Recovery = 92.88%								
Molybdenum,7439-98-7†	1480.8	0.4795	mg/L	0.00412	0.4795	mg/L	0.00412	0.86%
QC value within limits for Molybdenum,7439-98-7 Recovery = 95.91%								
Nickel,7440-02-0†	5794.6	0.4748	mg/L	0.00931	0.4748	mg/L	0.00931	1.96%
QC value within limits for Nickel,7440-02-0 Recovery = 94.96%								
Selenium,7782-49-2†	171.9	0.4851	mg/L	0.00840	0.4851	mg/L	0.00840	1.73%
QC value within limits for Selenium,7782-49-2 Recovery = 97.02%								
Silver,7440-22-4†	92772.5	0.4707	mg/L	0.01118	0.4707	mg/L	0.01118	2.38%
QC value within limits for Silver,7440-22-4 Recovery = 94.14%								
Strontium,7440-24-6†	26211.7	0.4411	mg/L	0.01079	0.4411	mg/L	0.01079	2.45%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 88.22%								
Thallium,7440-28-0†	106.4	0.4887	mg/L	0.04932	0.4887	mg/L	0.04932	10.09%
QC value within limits for Thallium,7440-28-0 Recovery = 97.74%								
Tin,7440-31-5†	263.4	0.4700	mg/L	0.01447	0.4700	mg/L	0.01447	3.08%
QC value within limits for Tin,7440-31-5 Recovery = 94.01%								
Titanium,7440-32-6†	165073.7	0.4663	mg/L	0.00106	0.4663	mg/L	0.00106	0.23%
QC value within limits for Titanium,7440-32-6 Recovery = 93.26%								
Vanadium,7440-62-2†	79098.1	0.4721	mg/L	0.01131	0.4721	mg/L	0.01131	2.40%
QC value within limits for Vanadium,7440-62-2 Recovery = 94.42%								
Zinc,7440-66-6†	10871.0	0.4745	mg/L	0.01121	0.4745	mg/L	0.01121	2.36%
QC value within limits for Zinc,7440-66-6 Recovery = 94.90%								
Zirconium,7440-67-7†	148514.1	0.4567	mg/L	0.01446	0.4567	mg/L	0.01446	3.17%
QC value within limits for Zirconium,7440-67-7 Recovery = 91.34%								

QC Failed. Continue with analysis.

Sequence No.: 70
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/20/2005 11:23:04 PM
Data Type: Reprocessed on 6/21/2005 8:26:51 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1165127.5	103.16	%	0.399				0.39%
Yttrium,7440-65-5R	2142610.7	103.09	%	0.403				0.39%
Scandium	1710099.3	102.90	%	0.381				0.37%
Ar 420.069	1290334.0	105.70	%	0.290				0.27%
Aluminum,7429-90-5†	-658.8	-0.0737	mg/L	0.01110	-0.0737	mg/L	0.01110	15.05%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	-2.9	-0.0091	mg/L	0.00634	-0.0091	mg/L	0.00634	70.07%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	6.0	0.0228	mg/L	0.01397	0.0228	mg/L	0.01397	61.31%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	4.8	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	29.41%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-9002.0	-0.0009	mg/L	0.00017	-0.0009	mg/L	0.00017	17.47%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1007.2	0.0158	mg/L	0.00260	0.0158	mg/L	0.00260	16.48%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	540.4	0.0084	mg/L	0.00286	0.0084	mg/L	0.00286	33.92%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	2.5	0.0004	mg/L	0.00057	0.0004	mg/L	0.00057	133.26%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	0.5	0.0000	mg/L	0.00038	0.0000	mg/L	0.00038	>999.9%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	0.2	0.0000	mg/L	0.00129	0.0000	mg/L	0.00129	>999.9%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	379.5	0.0037	mg/L	0.00014	0.0037	mg/L	0.00014	3.82%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	65.1	0.0086	mg/L	0.00163	0.0086	mg/L	0.00163	18.88%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	-5.1	-0.0038	mg/L	0.00363	-0.0038	mg/L	0.00363	95.14%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								
Lithium,7439-93-2†	-10.3	-0.0075	mg/L	0.04204	-0.0075	mg/L	0.04204	560.86%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated								
Magnesium,7439-95-4†	55.6	0.0039	mg/L	0.00343	0.0039	mg/L	0.00343	87.77%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated								
Manganese,7439-96-5†	-24.8	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	30.32%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated								
Molybdenum,7439-98-7†	1.6	0.0005	mg/L	0.00154	0.0005	mg/L	0.00154	298.55%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated								
Nickel,7440-02-0†	-19.3	-0.0016	mg/L	0.00005	-0.0016	mg/L	0.00005	3.37%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated								
Selenium,7782-49-2†	9.1	0.0256	mg/L	0.00669	0.0256	mg/L	0.00669	26.12%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated								
Silver,7440-22-4†	-55.4	-0.0003	mg/L	0.00051	-0.0003	mg/L	0.00051	181.52%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated								
Strontium,7440-24-6†	-30.4	-0.0005	mg/L	0.00032	-0.0005	mg/L	0.00032	62.86%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated								
Thallium,7440-28-0†	3.1	0.0142	mg/L	0.01125	0.0142	mg/L	0.01125	79.09%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated								
Tin,7440-31-5†	1.0	0.0018	mg/L	0.00196	0.0018	mg/L	0.00196	108.12%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated								
Titanium,7440-32-6†	77.0	0.0002	mg/L	0.00032	0.0002	mg/L	0.00032	146.78%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated								
Vanadium,7440-62-2†	19.1	0.0001	mg/L	0.00076	0.0001	mg/L	0.00076	667.65%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated								
Zinc,7440-66-6†	16.3	0.0007	mg/L	0.00046	0.0007	mg/L	0.00046	64.57%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated								
Zirconium,7440-67-7†	-17.9	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	73.45%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 71
Sample ID: 20506170510
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 67
Date Collected: 6/20/2005 11:28:00 PM
Data Type: Reprocessed on 6/21/2005 8:26:52 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506170510

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1191022.3	105.45	%	0.446				0.42%
Yttrium,7440-65-5R	2190584.1	105.40	%	0.436				0.41%
Scandium	1755587.2	105.64	%	0.464				0.44%
Ar 420.069	1305044.3	106.91	%	0.863				0.81%
Aluminum,7429-90-5†	-857.8	-0.0960	mg/L	0.00325	-0.0960	mg/L	0.00325	3.38%
Antimony,7440-36-0†	2.6	0.0083	mg/L	0.01163	0.0083	mg/L	0.01163	139.35%
Arsenic,7440-38-2†	4.2	0.0162	mg/L	0.01506	0.0162	mg/L	0.01506	93.19%
Barium,7440-39-3†	0.8	0.0000	mg/L	0.00048	0.0000	mg/L	0.00048	>999.9%
Beryllium,7440-41-7†	-15403.5	-0.0016	mg/L	0.00007	-0.0016	mg/L	0.00007	4.12%
Boron,7440-42-8†	228.9	0.0036	mg/L	0.00077	0.0036	mg/L	0.00077	21.58%
Calcium,7440-70-2†	1652.6	0.0258	mg/L	0.00407	0.0258	mg/L	0.00407	15.78%
Cadmium,7440-43-9†	0.1	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	>999.9%
Chromium,7440-47-3†	-20.2	-0.0002	mg/L	0.00022	-0.0002	mg/L	0.00022	142.11%
Cobalt,7440-48-4†	-5.3	-0.0011	mg/L	0.00036	-0.0011	mg/L	0.00036	33.08%
Copper,7440-50-8†	417.7	0.0041	mg/L	0.00039	0.0041	mg/L	0.00039	9.47%
Iron,7439-89-6†	76.0	0.0101	mg/L	0.00134	0.0101	mg/L	0.00134	13.25%
Lead,7439-92-1†	-1.2	-0.0009	mg/L	0.00770	-0.0009	mg/L	0.00770	849.19%
Lithium,7439-93-2†	-104.5	-0.0759	mg/L	0.10011	-0.0759	mg/L	0.10011	131.83%
Magnesium,7439-95-4†	42.8	0.0030	mg/L	0.00312	0.0030	mg/L	0.00312	103.89%
Manganese,7439-96-5†	-33.3	-0.0002	mg/L	0.00009	-0.0002	mg/L	0.00009	36.64%
Molybdenum,7439-98-7†	2.8	0.0009	mg/L	0.00255	0.0009	mg/L	0.00255	283.91%
Nickel,7440-02-0†	-18.5	-0.0015	mg/L	0.00018	-0.0015	mg/L	0.00018	11.85%
Selenium,7782-49-2†	7.0	0.0198	mg/L	0.00184	0.0198	mg/L	0.00184	9.29%
Silver,7440-22-4†	-119.9	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	69.67%
Strontium,7440-24-6†	-114.2	-0.0019	mg/L	0.00171	-0.0019	mg/L	0.00171	89.07%
Thallium,7440-28-0†	0.9	0.0042	mg/L	0.00754	0.0042	mg/L	0.00754	180.36%
Tin,7440-31-5†	0.9	0.0017	mg/L	0.00450	0.0017	mg/L	0.00450	271.95%
Titanium,7440-32-6†	-35.5	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018	176.83%
Vanadium,7440-62-2†	17.9	0.0001	mg/L	0.00033	0.0001	mg/L	0.00033	317.43%
Zinc,7440-66-6†	48.5	0.0021	mg/L	0.00012	0.0021	mg/L	0.00012	5.81%
Zirconium,7440-67-7†	-613.3	-0.0019	mg/L	0.00013	-0.0019	mg/L	0.00013	6.87%

Sequence No.: 72
Sample ID: 250308
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 68
Date Collected: 6/20/2005 11:32:57 PM
Data Type: Reprocessed on 6/21/2005 8:26:53 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250308

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1184143.6	104.85	%	1.202				1.15%
Yttrium,7440-65-5R	2177192.7	104.76	%	1.227				1.17%
Scandium	1741699.0	104.80	%	1.224				1.17%
Ar 420.069	1305346.0	106.93	%	0.669				0.63%
Aluminum,7429-90-5†	-827.0	-0.0926	mg/L	0.01578	-0.0926	mg/L	0.01578	17.05%
Antimony,7440-36-0†	2.0	0.0063	mg/L	0.01062	0.0063	mg/L	0.01062	167.34%
Arsenic,7440-38-2†	1.1	0.0043	mg/L	0.01035	0.0043	mg/L	0.01035	241.35%
Barium,7440-39-3†	-9.8	-0.0005	mg/L	0.00058	-0.0005	mg/L	0.00058	123.87%
Beryllium,7440-41-7†	-13975.7	-0.0015	mg/L	0.00028	-0.0015	mg/L	0.00028	19.30%
Boron,7440-42-8†	-204.9	-0.0032	mg/L	0.00068	-0.0032	mg/L	0.00068	21.09%
Calcium,7440-70-2†	865.0	0.0135	mg/L	0.00443	0.0135	mg/L	0.00443	32.81%
Cadmium,7440-43-9†	-4.7	-0.0008	mg/L	0.00010	-0.0008	mg/L	0.00010	12.29%
Chromium,7440-47-3†	-29.8	-0.0002	mg/L	0.00029	-0.0002	mg/L	0.00029	120.37%
Cobalt,7440-48-4†	-8.0	-0.0016	mg/L	0.00094	-0.0016	mg/L	0.00094	57.44%
Copper,7440-50-8†	405.9	0.0040	mg/L	0.00051	0.0040	mg/L	0.00051	12.91%
Iron,7439-89-6†	46.7	0.0062	mg/L	0.00026	0.0062	mg/L	0.00026	4.13%
Lead,7439-92-1†	-4.1	-0.0031	mg/L	0.00257	-0.0031	mg/L	0.00257	83.01%
Lithium,7439-93-2†	3.6	0.0026	mg/L	0.03088	0.0026	mg/L	0.03088	>999.9%
Magnesium,7439-95-4†	41.3	0.0029	mg/L	0.00317	0.0029	mg/L	0.00317	109.44%
Manganese,7439-96-5†	-15.7	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022	191.33%
Molybdenum,7439-98-7†	1.2	0.0004	mg/L	0.00054	0.0004	mg/L	0.00054	134.33%
Nickel,7440-02-0†	-7.1	-0.0006	mg/L	0.00080	-0.0006	mg/L	0.00080	136.74%
Selenium,7782-49-2†	5.9	0.0165	mg/L	0.00790	0.0165	mg/L	0.00790	47.81%
Silver,7440-22-4†	-60.7	-0.0003	mg/L	0.00045	-0.0003	mg/L	0.00045	147.28%
Strontium,7440-24-6†	45.9	0.0008	mg/L	0.00028	0.0008	mg/L	0.00028	36.67%

Thallium,7440-28-0†	2.3	0.0105 mg/L	0.02554	0.0105 mg/L	0.02554	243.75%
Tin,7440-31-5†	-2.0	-0.0036 mg/L	0.00382	-0.0036 mg/L	0.00382	106.46%
Titanium,7440-32-6†	-12.5	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	451.05%
Vanadium,7440-62-2†	88.6	0.0005 mg/L	0.00054	0.0005 mg/L	0.00054	102.99%
Zinc,7440-66-6†	21.0	0.0009 mg/L	0.00046	0.0009 mg/L	0.00046	49.69%
Zirconium,7440-67-7†	-519.0	-0.0016 mg/L	0.00037	-0.0016 mg/L	0.00037	23.17%

Sequence No.: 73
Sample ID: 250309
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 69
Date Collected: 6/20/2005 11:37:55 PM
Data Type: Reprocessed on 6/21/2005 8:26:54 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 250309

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1242815.4	110.04	%	1.290				1.17%
Yttrium,7440-65-5R	2284571.2	109.92	%	1.322				1.20%
Scandium	1844107.8	110.96	%	1.278				1.15%
Ar 420.069	1309327.7	107.26	%	0.645				0.60%
Aluminum,7429-90-5†	42893.2	4.7953	mg/L	0.09232	4.7953	mg/L	0.09232	1.93%
Antimony,7440-36-0†	148.1	0.4575	mg/L	0.00865	0.4575	mg/L	0.00865	1.89%
Arsenic,7440-38-2†	127.5	0.4941	mg/L	0.00683	0.4941	mg/L	0.00683	1.38%
Barium,7440-39-3†	10503.1	0.5004	mg/L	0.00792	0.5004	mg/L	0.00792	1.58%
Beryllium,7440-41-7†	4670815.0	0.4900	mg/L	0.00682	0.4900	mg/L	0.00682	1.39%
Boron,7440-42-8†	154362.5	2.4161	mg/L	0.04917	2.4161	mg/L	0.04917	2.03%
Calcium,7440-70-2†	314031.6	4.8973	mg/L	0.05515	4.8973	mg/L	0.05515	1.13%
Cadmium,7440-43-9†	2855.0	0.4928	mg/L	0.00712	0.4928	mg/L	0.00712	1.44%
Chromium,7440-47-3†	57939.4	0.4942	mg/L	0.00794	0.4942	mg/L	0.00794	1.61%
Cobalt,7440-48-4†	2419.3	0.4909	mg/L	0.00496	0.4909	mg/L	0.00496	1.01%
Copper,7440-50-8†	48425.9	0.4739	mg/L	0.00876	0.4739	mg/L	0.00876	1.85%
Iron,7439-89-6†	37507.5	4.9666	mg/L	0.07856	4.9666	mg/L	0.07856	1.58%
Lead,7439-92-1†	659.9	0.4953	mg/L	0.00261	0.4953	mg/L	0.00261	0.53%
Lithium,7439-93-2†	599.7	0.4175	mg/L	0.07659	0.4175	mg/L	0.07659	18.34%
Magnesium,7439-95-4†	71244.7	4.9966	mg/L	0.07375	4.9966	mg/L	0.07375	1.48%
Manganese,7439-96-5†	66869.6	0.4853	mg/L	0.00887	0.4853	mg/L	0.00887	1.83%
Molybdenum,7439-98-7†	1523.7	0.4934	mg/L	0.00864	0.4934	mg/L	0.00864	1.75%
Nickel,7440-02-0†	6054.1	0.4961	mg/L	0.00813	0.4961	mg/L	0.00813	1.64%
Selenium,7782-49-2†	172.8	0.4879	mg/L	0.00772	0.4879	mg/L	0.00772	1.58%
Silver,7440-22-4†	95857.7	0.4864	mg/L	0.00768	0.4864	mg/L	0.00768	1.58%
Strontium,7440-24-6†	27876.6	0.4691	mg/L	0.00601	0.4691	mg/L	0.00601	1.28%
Thallium,7440-28-0†	102.7	0.4718	mg/L	0.02238	0.4718	mg/L	0.02238	4.74%
Tin,7440-31-5†	268.3	0.4788	mg/L	0.00967	0.4788	mg/L	0.00967	2.02%
Titanium,7440-32-6†	169979.3	0.4801	mg/L	0.00676	0.4801	mg/L	0.00676	1.41%
Vanadium,7440-62-2†	83061.6	0.4958	mg/L	0.00747	0.4958	mg/L	0.00747	1.51%
Zinc,7440-66-6†	11393.3	0.4973	mg/L	0.00733	0.4973	mg/L	0.00733	1.47%
Zirconium,7440-67-7†	3572.8	0.0105	mg/L	0.00566	0.0105	mg/L	0.00566	53.67%

Sequence No.: 74
Sample ID: 20506162401
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 70
Date Collected: 6/20/2005 11:43:00 PM
Data Type: Reprocessed on 6/21/2005 8:26:55 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162401

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1234226.6	109.28	%	2.305				2.11%
Yttrium,7440-65-5R	2270173.5	109.23	%	2.325				2.13%
Scandium	1827798.8	109.98	%	2.335				2.12%
Ar 420.069	1299998.5	106.49	%	0.893				0.84%
Aluminum,7429-90-5†	20635.6	2.3097	mg/L	0.08110	2.3097	mg/L	0.08110	3.51%
Antimony,7440-36-0†	0.1	0.0001	mg/L	0.00348	0.0001	mg/L	0.00348	>999.9%
Arsenic,7440-38-2†	5.6	0.0216	mg/L	0.01454	0.0216	mg/L	0.01454	67.26%
Barium,7440-39-3†	404.3	0.0192	mg/L	0.00033	0.0192	mg/L	0.00033	1.72%
Beryllium,7440-41-7†	-17585.6	-0.0019	mg/L	0.00046	-0.0019	mg/L	0.00046	24.44%

Boron,7440-42-8†	2301.9	0.0364 mg/L	0.00326	0.0364 mg/L	0.00326	8.96%
Calcium,7440-70-2†	48210.7	0.7515 mg/L	0.01569	0.7515 mg/L	0.01569	2.09%
Cadmium,7440-43-9†	-3.9	-0.0006 mg/L	0.00088	-0.0006 mg/L	0.00088	141.00%
Chromium,7440-47-3†	114.1	0.0014 mg/L	0.00055	0.0014 mg/L	0.00055	39.05%
Cobalt,7440-48-4†	6.0	0.0011 mg/L	0.00068	0.0011 mg/L	0.00068	63.26%
Copper,7440-50-8†	864.6	0.0084 mg/L	0.00088	0.0084 mg/L	0.00088	10.38%
Iron,7439-89-6†	15116.5	2.0031 mg/L	0.04906	2.0031 mg/L	0.04906	2.45%
Lead,7439-92-1†	7.7	0.0059 mg/L	0.00406	0.0059 mg/L	0.00406	68.39%
Lithium,7439-93-2†	28.6	0.0137 mg/L	0.10456	0.0137 mg/L	0.10456	760.58%
Magnesium,7439-95-4†	7850.6	0.5515 mg/L	0.01615	0.5515 mg/L	0.01615	2.93%
Manganese,7439-96-5†	2639.0	0.0192 mg/L	0.00051	0.0192 mg/L	0.00051	2.63%
Molybdenum,7439-98-7†	5.5	0.0018 mg/L	0.00173	0.0018 mg/L	0.00173	94.37%
Nickel,7440-02-0†	-7.0	-0.0006 mg/L	0.00156	-0.0006 mg/L	0.00156	250.65%
Selenium,7782-49-2†	18.7	0.0535 mg/L	0.01509	0.0535 mg/L	0.01509	28.22%
Silver,7440-22-4†	-257.2	-0.0012 mg/L	0.00013	-0.0012 mg/L	0.00013	10.26%
Strontium,7440-24-6†	171.5	0.0029 mg/L	0.00040	0.0029 mg/L	0.00040	13.81%
Thallium,7440-28-0†	-0.6	-0.0026 mg/L	0.00525	-0.0026 mg/L	0.00525	201.04%
Tin,7440-31-5†	-3.0	-0.0046 mg/L	0.00172	-0.0046 mg/L	0.00172	37.52%
Titanium,7440-32-6†	6364.9	0.0180 mg/L	0.00013	0.0180 mg/L	0.00013	0.70%
Vanadium,7440-62-2†	895.9	0.0052 mg/L	0.00027	0.0052 mg/L	0.00027	5.11%
Zinc,7440-66-6†	308.0	0.0132 mg/L	0.00017	0.0132 mg/L	0.00017	1.32%
Zirconium,7440-67-7†	-480.7	-0.0015 mg/L	0.00022	-0.0015 mg/L	0.00022	14.26%

Sequence No.: 75
Sample ID: 20506162402
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 71
Date Collected: 6/20/2005 11:47:58 PM
Data Type: Reprocessed on 6/21/2005 8:26:57 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162402

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1228855.3	108.80	%	4.088				3.76%
Yttrium,7440-65-5R	2259864.4	108.74	%	4.127				3.80%
Scandium	1819533.1	109.48	%	4.125				3.77%
Ar 420.069	1298457.3	106.37	%	0.432				0.41%
Aluminum,7429-90-5†	20923.9	2.3420	mg/L	0.15690	2.3420	mg/L	0.15690	6.70%
Antimony,7440-36-0†	-1.6	-0.0054	mg/L	0.00967	-0.0054	mg/L	0.00967	177.51%
Arsenic,7440-38-2†	3.6	0.0142	mg/L	0.00183	0.0142	mg/L	0.00183	12.85%
Barium,7440-39-3†	387.4	0.0184	mg/L	0.00065	0.0184	mg/L	0.00065	3.55%
Beryllium,7440-41-7†	-16833.2	-0.0018	mg/L	0.00069	-0.0018	mg/L	0.00069	38.83%
Boron,7440-42-8†	1484.7	0.0236	mg/L	0.00262	0.0236	mg/L	0.00262	11.14%
Calcium,7440-70-2†	46451.2	0.7241	mg/L	0.02879	0.7241	mg/L	0.02879	3.98%
Cadmium,7440-43-9†	1.9	0.0004	mg/L	0.00043	0.0004	mg/L	0.00043	113.08%
Chromium,7440-47-3†	138.4	0.0016	mg/L	0.00061	0.0016	mg/L	0.00061	38.62%
Cobalt,7440-48-4†	6.6	0.0012	mg/L	0.00203	0.0012	mg/L	0.00203	169.35%
Copper,7440-50-8†	829.2	0.0081	mg/L	0.00086	0.0081	mg/L	0.00086	10.63%
Iron,7439-89-6†	14511.7	1.9229	mg/L	0.08471	1.9229	mg/L	0.08471	4.41%
Lead,7439-92-1†	5.2	0.0040	mg/L	0.00598	0.0040	mg/L	0.00598	148.86%
Lithium,7439-93-2†	-33.8	-0.0313	mg/L	0.01791	-0.0313	mg/L	0.01791	57.27%
Magnesium,7439-95-4†	7693.0	0.5404	mg/L	0.01934	0.5404	mg/L	0.01934	3.58%
Manganese,7439-96-5†	2638.2	0.0192	mg/L	0.00118	0.0192	mg/L	0.00118	6.12%
Molybdenum,7439-98-7†	1.3	0.0005	mg/L	0.00153	0.0005	mg/L	0.00153	318.39%
Nickel,7440-02-0†	-0.6	-0.0001	mg/L	0.00065	-0.0001	mg/L	0.00065	630.65%
Selenium,7782-49-2†	11.8	0.0341	mg/L	0.01938	0.0341	mg/L	0.01938	56.74%
Silver,7440-22-4†	-312.8	-0.0015	mg/L	0.00075	-0.0015	mg/L	0.00075	49.61%
Strontium,7440-24-6†	307.9	0.0052	mg/L	0.00279	0.0052	mg/L	0.00279	53.89%
Thallium,7440-28-0†	-2.9	-0.0133	mg/L	0.02958	-0.0133	mg/L	0.02958	222.23%
Tin,7440-31-5†	-1.3	-0.0016	mg/L	0.00607	-0.0016	mg/L	0.00607	388.59%
Titanium,7440-32-6†	6420.0	0.0181	mg/L	0.00018	0.0181	mg/L	0.00018	0.97%
Vanadium,7440-62-2†	847.5	0.0049	mg/L	0.00012	0.0049	mg/L	0.00012	2.44%
Zinc,7440-66-6†	287.5	0.0123	mg/L	0.00052	0.0123	mg/L	0.00052	4.23%
Zirconium,7440-67-7†	-372.4	-0.0012	mg/L	0.00052	-0.0012	mg/L	0.00052	43.72%

Sequence No.: 76
Sample ID: 20506162403
Analyst:
Logged In Analyst (Original) : met

Autosampler Location: 72
Date Collected: 6/20/2005 11:52:56 PM
Data Type: Reprocessed on 6/21/2005 8:26:58 AM

Initial Sample Wt:
Dilution: 1X

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162403

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1232125.6	109.09	%	0.311				0.29%
Yttrium,7440-65-5R	2264614.4	108.96	%	0.322				0.30%
Scandium	1826868.5	109.92	%	0.312				0.28%
Ar 420.069	1307278.9	107.09	%	0.293				0.27%
Aluminum,7429-90-5†	116874.7	13.076	mg/L	0.1065	13.076	mg/L	0.1065	0.81%
Antimony,7440-36-0†	152.7	0.4713	mg/L	0.00722	0.4713	mg/L	0.00722	1.53%
Arsenic,7440-38-2†	131.7	0.5107	mg/L	0.02379	0.5107	mg/L	0.02379	4.66%
Barium,7440-39-3†	11044.8	0.5262	mg/L	0.00302	0.5262	mg/L	0.00302	0.57%
Beryllium,7440-41-7†	4751715.1	0.4985	mg/L	0.00239	0.4985	mg/L	0.00239	0.48%
Boron,7440-42-8†	158711.2	2.4845	mg/L	0.02723	2.4845	mg/L	0.02723	1.10%
Calcium,7440-70-2†	364725.7	5.6874	mg/L	0.03549	5.6874	mg/L	0.03549	0.62%
Cadmium,7440-43-9†	2912.3	0.5028	mg/L	0.00384	0.5028	mg/L	0.00384	0.76%
Chromium,7440-47-3†	59434.8	0.5066	mg/L	0.00419	0.5066	mg/L	0.00419	0.83%
Cobalt,7440-48-4†	2480.8	0.5033	mg/L	0.00240	0.5033	mg/L	0.00240	0.48%
Copper,7440-50-8†	49661.2	0.4860	mg/L	0.00462	0.4860	mg/L	0.00462	0.95%
Iron,7439-89-6†	54236.1	7.1821	mg/L	0.05779	7.1821	mg/L	0.05779	0.80%
Lead,7439-92-1†	681.2	0.5118	mg/L	0.00724	0.5118	mg/L	0.00724	1.42%
Lithium,7439-93-2†	747.8	0.5169	mg/L	0.05247	0.5169	mg/L	0.05247	10.15%
Magnesium,7439-95-4†	80569.7	5.6515	mg/L	0.03586	5.6515	mg/L	0.03586	0.63%
Manganese,7439-96-5†	71176.6	0.5167	mg/L	0.00294	0.5167	mg/L	0.00294	0.57%
Molybdenum,7439-98-7†	1538.2	0.4982	mg/L	0.00511	0.4982	mg/L	0.00511	1.03%
Nickel,7440-02-0†	6173.5	0.5058	mg/L	0.00544	0.5058	mg/L	0.00544	1.08%
Selenium,7782-49-2†	181.3	0.5129	mg/L	0.00532	0.5129	mg/L	0.00532	1.04%
Silver,7440-22-4†	97193.4	0.4932	mg/L	0.00381	0.4932	mg/L	0.00381	0.77%
Strontium,7440-24-6†	27991.3	0.4710	mg/L	0.00332	0.4710	mg/L	0.00332	0.70%
Thallium,7440-28-0†	109.5	0.5031	mg/L	0.02359	0.5031	mg/L	0.02359	4.69%
Tin,7440-31-5†	279.5	0.4994	mg/L	0.00526	0.4994	mg/L	0.00526	1.05%
Titanium,7440-32-6†	179139.1	0.5060	mg/L	0.00152	0.5060	mg/L	0.00152	0.30%
Vanadium,7440-62-2†	84848.6	0.5063	mg/L	0.00372	0.5063	mg/L	0.00372	0.74%
Zinc,7440-66-6†	11781.7	0.5139	mg/L	0.00447	0.5139	mg/L	0.00447	0.87%
Zirconium,7440-67-7†	1452.9	0.0040	mg/L	0.00079	0.0040	mg/L	0.00079	19.88%

Sequence No.: 77
Sample ID: 20506162404
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 73
Date Collected: 6/20/2005 11:58:03 PM
Data Type: Reprocessed on 6/21/2005 8:27:00 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162404

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1240276.8	109.82	%	0.779				0.71%
Yttrium,7440-65-5R	2279236.7	109.67	%	0.761				0.69%
Scandium	1837562.1	110.57	%	0.749				0.68%
Ar 420.069	1308270.0	107.17	%	0.825				0.77%
Aluminum,7429-90-5†	112548.3	12.592	mg/L	0.1942	12.592	mg/L	0.1942	1.54%
Antimony,7440-36-0†	151.3	0.4668	mg/L	0.01592	0.4668	mg/L	0.01592	3.41%
Arsenic,7440-38-2†	129.3	0.5016	mg/L	0.01590	0.5016	mg/L	0.01590	3.17%
Barium,7440-39-3†	11105.1	0.5290	mg/L	0.00647	0.5290	mg/L	0.00647	1.22%
Beryllium,7440-41-7†	4805575.4	0.5041	mg/L	0.00195	0.5041	mg/L	0.00195	0.39%
Boron,7440-42-8†	161419.2	2.5268	mg/L	0.03223	2.5268	mg/L	0.03223	1.28%
Calcium,7440-70-2†	368995.6	5.7541	mg/L	0.02713	5.7541	mg/L	0.02713	0.47%
Cadmium,7440-43-9†	2936.3	0.5070	mg/L	0.00497	0.5070	mg/L	0.00497	0.98%
Chromium,7440-47-3†	59883.2	0.5104	mg/L	0.00707	0.5104	mg/L	0.00707	1.38%
Cobalt,7440-48-4†	2512.7	0.5098	mg/L	0.00398	0.5098	mg/L	0.00398	0.78%
Copper,7440-50-8†	49998.8	0.4893	mg/L	0.00785	0.4893	mg/L	0.00785	1.61%
Iron,7439-89-6†	52202.4	6.9126	mg/L	0.08929	6.9126	mg/L	0.08929	1.29%
Lead,7439-92-1†	683.4	0.5135	mg/L	0.00383	0.5135	mg/L	0.00383	0.74%
Lithium,7439-93-2†	669.3	0.4608	mg/L	0.06507	0.4608	mg/L	0.06507	14.12%
Magnesium,7439-95-4†	81691.7	5.7300	mg/L	0.07356	5.7300	mg/L	0.07356	1.28%
Manganese,7439-96-5†	71665.1	0.5202	mg/L	0.00835	0.5202	mg/L	0.00835	1.61%
Molybdenum,7439-98-7†	1552.6	0.5028	mg/L	0.00308	0.5028	mg/L	0.00308	0.61%

Nickel,7440-02-0†	6148.0	0.5037 mg/L	0.00304	0.5037 mg/L	0.00304	0.60%
Selenium,7782-49-2†	179.2	0.5066 mg/L	0.02549	0.5066 mg/L	0.02549	5.03%
Silver,7440-22-4†	97792.3	0.4963 mg/L	0.00596	0.4963 mg/L	0.00596	1.20%
Strontium,7440-24-6†	28346.5	0.4770 mg/L	0.00692	0.4770 mg/L	0.00692	1.45%
Thallium,7440-28-0†	108.7	0.4993 mg/L	0.03733	0.4993 mg/L	0.03733	7.48%
Tin,7440-31-5†	278.8	0.4981 mg/L	0.00608	0.4981 mg/L	0.00608	1.22%
Titanium,7440-32-6†	179143.9	0.5060 mg/L	0.00294	0.5060 mg/L	0.00294	0.58%
Vanadium,7440-62-2†	85598.9	0.5108 mg/L	0.00672	0.5108 mg/L	0.00672	1.32%
Zinc,7440-66-6†	11923.1	0.5202 mg/L	0.00706	0.5202 mg/L	0.00706	1.36%
Zirconium,7440-67-7†	637.1	0.0015 mg/L	0.00008	0.0015 mg/L	0.00008	5.21%

Sequence No.: 78
Sample ID: 251081
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 74
Date Collected: 6/21/2005 12:03:10 AM
Data Type: Reprocessed on 6/21/2005 8:27:01 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251081

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1256693.7	111.27	%	0.617				0.55%
Yttrium,7440-65-5R	2310039.3	111.15	%	0.606				0.55%
Scandium	1861571.3	112.01	%	0.667				0.60%
Ar 420.069	1301790.1	106.64	%	0.276				0.26%
Aluminum,7429-90-5†	76547.3	8.5625	mg/L	0.08334	8.5625	mg/L	0.08334	0.97%
Antimony,7440-36-0†	146.0	0.4510	mg/L	0.01226	0.4510	mg/L	0.01226	2.72%
Arsenic,7440-38-2†	119.2	0.4626	mg/L	0.01398	0.4626	mg/L	0.01398	3.02%
Barium,7440-39-3†	10315.9	0.4914	mg/L	0.00435	0.4914	mg/L	0.00435	0.89%
Beryllium,7440-41-7†	4481608.1	0.4702	mg/L	0.00914	0.4702	mg/L	0.00914	1.94%
Boron,7440-42-8†	150837.2	2.3612	mg/L	0.01679	2.3612	mg/L	0.01679	0.71%
Calcium,7440-70-2†	346613.1	5.4051	mg/L	0.10790	5.4051	mg/L	0.10790	2.00%
Cadmium,7440-43-9†	2743.8	0.4737	mg/L	0.00470	0.4737	mg/L	0.00470	0.99%
Chromium,7440-47-3†	55514.6	0.4737	mg/L	0.00316	0.4737	mg/L	0.00316	0.67%
Cobalt,7440-48-4†	2335.7	0.4738	mg/L	0.00400	0.4738	mg/L	0.00400	0.84%
Copper,7440-50-8†	46071.2	0.4509	mg/L	0.00314	0.4509	mg/L	0.00314	0.70%
Iron,7439-89-6†	51071.2	6.7639	mg/L	0.04428	6.7639	mg/L	0.04428	0.65%
Lead,7439-92-1†	640.1	0.4806	mg/L	0.00833	0.4806	mg/L	0.00833	1.73%
Lithium,7439-93-2†	628.4	0.4320	mg/L	0.01325	0.4320	mg/L	0.01325	3.07%
Magnesium,7439-95-4†	75523.9	5.2976	mg/L	0.03021	5.2976	mg/L	0.03021	0.57%
Manganese,7439-96-5†	66151.6	0.4802	mg/L	0.00384	0.4802	mg/L	0.00384	0.80%
Molybdenum,7439-98-7†	1472.3	0.4768	mg/L	0.00696	0.4768	mg/L	0.00696	1.46%
Nickel,7440-02-0†	5750.7	0.4712	mg/L	0.00272	0.4712	mg/L	0.00272	0.58%
Selenium,7782-49-2†	174.9	0.4947	mg/L	0.01068	0.4947	mg/L	0.01068	2.16%
Silver,7440-22-4†	91288.7	0.4633	mg/L	0.00202	0.4633	mg/L	0.00202	0.44%
Strontium,7440-24-6†	26337.5	0.4432	mg/L	0.00207	0.4432	mg/L	0.00207	0.47%
Thallium,7440-28-0†	104.4	0.4795	mg/L	0.03614	0.4795	mg/L	0.03614	7.54%
Tin,7440-31-5†	258.3	0.4618	mg/L	0.00810	0.4618	mg/L	0.00810	1.75%
Titanium,7440-32-6†	178967.3	0.5055	mg/L	0.01275	0.5055	mg/L	0.01275	2.52%
Vanadium,7440-62-2†	79480.5	0.4742	mg/L	0.00248	0.4742	mg/L	0.00248	0.52%
Zinc,7440-66-6†	11025.5	0.4810	mg/L	0.00346	0.4810	mg/L	0.00346	0.72%
Zirconium,7440-67-7†	969.6	0.0025	mg/L	0.00014	0.0025	mg/L	0.00014	5.75%

Sequence No.: 79
Sample ID: 251080
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 75
Date Collected: 6/21/2005 12:08:42 AM
Data Type: Reprocessed on 6/21/2005 8:27:02 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 251080

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1211059.0	107.23	%	1.884				1.76%
Yttrium,7440-65-5R	2227301.3	107.17	%	1.916				1.79%
Scandium	1793457.2	107.91	%	1.860				1.72%
Ar 420.069	1295447.2	106.12	%	0.297				0.28%
Aluminum,7429-90-5†	6968.6	0.7800	mg/L	0.04320	3.9000	mg/L	0.21600	5.54%

Antimony,7440-36-0†	-2.8	-0.0089 mg/L	0.01916	-0.0443 mg/L	0.09579	216.41%
Arsenic,7440-38-2†	4.0	0.0154 mg/L	0.01021	0.0771 mg/L	0.05105	66.19%
Barium,7440-39-3†	70.4	0.0033 mg/L	0.00032	0.0167 mg/L	0.00158	9.47%
Beryllium,7440-41-7†	-15838.1	-0.0017 mg/L	0.00031	-0.0083 mg/L	0.00153	18.38%
Boron,7440-42-8†	2614.7	0.0410 mg/L	0.00158	0.2049 mg/L	0.00790	3.85%
Calcium,7440-70-2†	9758.3	0.1521 mg/L	0.00245	0.7605 mg/L	0.01224	1.61%
Cadmium,7440-43-9†	-8.3	-0.0014 mg/L	0.00126	-0.0071 mg/L	0.00628	88.36%
Chromium,7440-47-3†	-49.3	-0.0004 mg/L	0.00064	-0.0018 mg/L	0.00322	179.33%
Cobalt,7440-48-4†	-3.3	-0.0007 mg/L	0.00121	-0.0035 mg/L	0.00607	171.05%
Copper,7440-50-8†	426.4	0.0042 mg/L	0.00071	0.0209 mg/L	0.00354	17.00%
Iron,7439-89-6†	3329.6	0.4411 mg/L	0.01051	2.2057 mg/L	0.05253	2.38%
Lead,7439-92-1†	0.1	0.0002 mg/L	0.00255	0.0008 mg/L	0.01277	>999.9%
Lithium,7439-93-2†	-39.7	-0.0304 mg/L	0.12910	-0.1522 mg/L	0.64550	424.18%
Magnesium,7439-95-4†	1638.0	0.1151 mg/L	0.00370	0.5754 mg/L	0.01851	3.22%
Manganese,7439-96-5†	515.2	0.0038 mg/L	0.00033	0.0188 mg/L	0.00165	8.80%
Molybdenum,7439-98-7†	7.1	0.0023 mg/L	0.00086	0.0116 mg/L	0.00428	37.02%
Nickel,7440-02-0†	-6.0	-0.0005 mg/L	0.00114	-0.0025 mg/L	0.00571	226.21%
Selenium,7782-49-2†	8.4	0.0238 mg/L	0.01097	0.1189 mg/L	0.05484	46.13%
Silver,7440-22-4†	-238.8	-0.0012 mg/L	0.00019	-0.0059 mg/L	0.00095	16.05%
Strontium,7440-24-6†	10.5	0.0002 mg/L	0.00225	0.0009 mg/L	0.01125	>999.9%
Thallium,7440-28-0†	2.1	0.0098 mg/L	0.01980	0.0489 mg/L	0.09900	202.37%
Tin,7440-31-5†	1.0	0.0020 mg/L	0.00443	0.0099 mg/L	0.02213	222.99%
Titanium,7440-32-6†	4296.2	0.0121 mg/L	0.00025	0.0607 mg/L	0.00126	2.08%
Vanadium,7440-62-2†	325.3	0.0019 mg/L	0.00025	0.0095 mg/L	0.00125	13.17%
Zinc,7440-66-6†	82.3	0.0035 mg/L	0.00016	0.0177 mg/L	0.00082	4.65%
Zirconium,7440-67-7†	-623.3	-0.0019 mg/L	0.00045	-0.0097 mg/L	0.00225	23.26%

Sequence No.: 80
Sample ID: 20506162405
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 76
Date Collected: 6/21/2005 12:13:42 AM
Data Type: Reprocessed on 6/21/2005 8:27:04 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162405

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1244914.2	110.23	%	0.559				0.51%
Yttrium,7440-65-5R	2290038.8	110.19	%	0.580				0.53%
Scandium	1846163.4	111.09	%	0.588				0.53%
Ar 420.069	1294097.4	106.01	%	0.205				0.19%
Aluminum,7429-90-5†	549.0	0.0613	mg/L	0.00707	0.0613	mg/L	0.00707	11.52%
Antimony,7440-36-0†	-2.2	-0.0070	mg/L	0.00722	-0.0070	mg/L	0.00722	102.96%
Arsenic,7440-38-2†	2.5	0.0096	mg/L	0.01009	0.0096	mg/L	0.01009	105.66%
Barium,7440-39-3†	818.1	0.0389	mg/L	0.00042	0.0389	mg/L	0.00042	1.08%
Beryllium,7440-41-7†	-20413.1	-0.0022	mg/L	0.00016	-0.0022	mg/L	0.00016	7.40%
Boron,7440-42-8†	1941.0	0.0305	mg/L	0.00130	0.0305	mg/L	0.00130	4.25%
Calcium,7440-70-2†	59307.0	0.9249	mg/L	0.01123	0.9249	mg/L	0.01123	1.21%
Cadmium,7440-43-9†	-7.8	-0.0013	mg/L	0.00209	-0.0013	mg/L	0.00209	155.14%
Chromium,7440-47-3†	-41.8	-0.0001	mg/L	0.00043	-0.0001	mg/L	0.00043	332.82%
Cobalt,7440-48-4†	-4.2	-0.0009	mg/L	0.00124	-0.0009	mg/L	0.00124	139.86%
Copper,7440-50-8†	544.7	0.0053	mg/L	0.00024	0.0053	mg/L	0.00024	4.44%
Iron,7439-89-6†	4643.3	0.6154	mg/L	0.00778	0.6154	mg/L	0.00778	1.26%
Lead,7439-92-1†	-1.5	-0.0011	mg/L	0.00536	-0.0011	mg/L	0.00536	476.02%
Lithium,7439-93-2†	-86.7	-0.0651	mg/L	0.08063	-0.0651	mg/L	0.08063	123.93%
Magnesium,7439-95-4†	11655.0	0.8174	mg/L	0.01037	0.8174	mg/L	0.01037	1.27%
Manganese,7439-96-5†	828.9	0.0060	mg/L	0.00009	0.0060	mg/L	0.00009	1.47%
Molybdenum,7439-98-7†	3.2	0.0011	mg/L	0.00284	0.0011	mg/L	0.00284	267.28%
Nickel,7440-02-0†	-1.8	-0.0002	mg/L	0.00010	-0.0002	mg/L	0.00010	59.84%
Selenium,7782-49-2†	8.9	0.0253	mg/L	0.00183	0.0253	mg/L	0.00183	7.22%
Silver,7440-22-4†	-307.7	-0.0015	mg/L	0.00033	-0.0015	mg/L	0.00033	22.17%
Strontium,7440-24-6†	508.7	0.0085	mg/L	0.00075	0.0085	mg/L	0.00075	8.77%
Thallium,7440-28-0†	-0.1	-0.0004	mg/L	0.05463	-0.0004	mg/L	0.05463	>999.9%
Tin,7440-31-5†	-0.7	-0.0008	mg/L	0.00147	-0.0008	mg/L	0.00147	183.98%
Titanium,7440-32-6†	522.6	0.0015	mg/L	0.00035	0.0015	mg/L	0.00035	23.82%
Vanadium,7440-62-2†	237.8	0.0014	mg/L	0.00024	0.0014	mg/L	0.00024	17.46%
Zinc,7440-66-6†	94.9	0.0039	mg/L	0.00054	0.0039	mg/L	0.00054	13.68%
Zirconium,7440-67-7†	-822.8	-0.0025	mg/L	0.00031	-0.0025	mg/L	0.00031	12.14%

Sequence No.: 81
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/21/2005 12:19:09 AM
Data Type: Reprocessed on 6/21/2005 8:27:05 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1225847.4	108.54	%	1.054				0.97%
Yttrium,7440-65-5R	2255230.8	108.51	%	1.033				0.95%
Scandium	1819675.3	109.49	%	1.041				0.95%
Ar 420.069	1283836.9	105.17	%	0.195				0.19%
Aluminum,7429-90-5†	40393.5	4.5159	mg/L	0.02801	4.5159	mg/L	0.02801	0.62%
QC value within limits for Aluminum,7429-90-5 Recovery = 90.32%								
Antimony,7440-36-0†	145.3	0.4490	mg/L	0.02387	0.4490	mg/L	0.02387	5.32%
QC value within limits for Antimony,7440-36-0 Recovery = 89.81%								
Arsenic,7440-38-2†	116.7	0.4524	mg/L	0.02653	0.4524	mg/L	0.02653	5.87%
QC value within limits for Arsenic,7440-38-2 Recovery = 90.47%								
Barium,7440-39-3†	9832.7	0.4685	mg/L	0.00376	0.4685	mg/L	0.00376	0.80%
QC value within limits for Barium,7440-39-3 Recovery = 93.69%								
Beryllium,7440-41-7†	4410476.6	0.4627	mg/L	0.00289	0.4627	mg/L	0.00289	0.62%
QC value within limits for Beryllium,7440-41-7 Recovery = 92.54%								
Boron,7440-42-8†	147286.0	2.3053	mg/L	0.01574	2.3053	mg/L	0.01574	0.68%
QC value within limits for Boron,7440-42-8 Recovery = 92.21%								
Calcium,7440-70-2†	295914.5	4.6148	mg/L	0.02580	4.6148	mg/L	0.02580	0.56%
QC value within limits for Calcium,7440-70-2 Recovery = 92.30%								
Cadmium,7440-43-9†	2705.4	0.4670	mg/L	0.00667	0.4670	mg/L	0.00667	1.43%
QC value within limits for Cadmium,7440-43-9 Recovery = 93.40%								
Chromium,7440-47-3†	54790.9	0.4673	mg/L	0.00194	0.4673	mg/L	0.00194	0.42%
QC value within limits for Chromium,7440-47-3 Recovery = 93.46%								
Cobalt,7440-48-4†	2282.6	0.4632	mg/L	0.00657	0.4632	mg/L	0.00657	1.42%
QC value within limits for Cobalt,7440-48-4 Recovery = 92.63%								
Copper,7440-50-8†	45630.7	0.4466	mg/L	0.00153	0.4466	mg/L	0.00153	0.34%
QC value less than the lower limit for Copper,7440-50-8 Recovery = 89.31%								
Iron,7439-89-6†	35338.6	4.6795	mg/L	0.03048	4.6795	mg/L	0.03048	0.65%
QC value within limits for Iron,7439-89-6 Recovery = 93.59%								
Lead,7439-92-1†	617.2	0.4632	mg/L	0.00593	0.4632	mg/L	0.00593	1.28%
QC value within limits for Lead,7439-92-1 Recovery = 92.64%								
Lithium,7439-93-2†	522.5	0.3625	mg/L	0.05077	0.3625	mg/L	0.05077	14.01%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 72.50%								
Magnesium,7439-95-4†	66821.5	4.6864	mg/L	0.02775	4.6864	mg/L	0.02775	0.59%
QC value within limits for Magnesium,7439-95-4 Recovery = 93.73%								
Manganese,7439-96-5†	62997.9	0.4572	mg/L	0.00280	0.4572	mg/L	0.00280	0.61%
QC value within limits for Manganese,7439-96-5 Recovery = 91.44%								
Molybdenum,7439-98-7†	1455.6	0.4714	mg/L	0.00534	0.4714	mg/L	0.00534	1.13%
QC value within limits for Molybdenum,7439-98-7 Recovery = 94.28%								
Nickel,7440-02-0†	5691.8	0.4664	mg/L	0.00375	0.4664	mg/L	0.00375	0.80%
QC value within limits for Nickel,7440-02-0 Recovery = 93.28%								
Selenium,7782-49-2†	170.6	0.4815	mg/L	0.00488	0.4815	mg/L	0.00488	1.01%
QC value within limits for Selenium,7782-49-2 Recovery = 96.31%								
Silver,7440-22-4†	91311.3	0.4633	mg/L	0.00264	0.4633	mg/L	0.00264	0.57%
QC value within limits for Silver,7440-22-4 Recovery = 92.66%								
Strontium,7440-24-6†	25642.9	0.4315	mg/L	0.00760	0.4315	mg/L	0.00760	1.76%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 86.31%								
Thallium,7440-28-0†	100.8	0.4627	mg/L	0.02762	0.4627	mg/L	0.02762	5.97%
QC value within limits for Thallium,7440-28-0 Recovery = 92.55%								
Tin,7440-31-5†	256.1	0.4570	mg/L	0.00879	0.4570	mg/L	0.00879	1.92%
QC value within limits for Tin,7440-31-5 Recovery = 91.40%								
Titanium,7440-32-6†	161145.3	0.4552	mg/L	0.00287	0.4552	mg/L	0.00287	0.63%
QC value within limits for Titanium,7440-32-6 Recovery = 91.04%								
Vanadium,7440-62-2†	78087.8	0.4661	mg/L	0.00256	0.4661	mg/L	0.00256	0.55%
QC value within limits for Vanadium,7440-62-2 Recovery = 93.22%								
Zinc,7440-66-6†	10717.7	0.4678	mg/L	0.00376	0.4678	mg/L	0.00376	0.80%
QC value within limits for Zinc,7440-66-6 Recovery = 93.57%								
Zirconium,7440-67-7†	143816.9	0.4423	mg/L	0.01562	0.4423	mg/L	0.01562	3.53%
QC value less than the lower limit for Zirconium,7440-67-7 Recovery = 88.45%								

QC Failed. Continue with analysis.

Sequence No.: 82
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/21/2005 12:24:16 AM
Data Type: Reprocessed on 6/21/2005 8:27:07 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1140219.5	100.96	%	5.663				5.61%
Yttrium,7440-65-5R	2096508.6	100.88	%	5.691				5.64%
Scandium	1674532.1	100.76	%	5.692				5.65%
Ar 420.069	1292005.9	105.84	%	0.308				0.29%
Aluminum,7429-90-5†	-527.9	-0.0591	mg/L	0.06460	-0.0591	mg/L	0.06460	109.34%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	3.4	0.0107	mg/L	0.01276	0.0107	mg/L	0.01276	119.10%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	6.3	0.0242	mg/L	0.01437	0.0242	mg/L	0.01437	59.30%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-10.1	-0.0005	mg/L	0.00030	-0.0005	mg/L	0.00030	62.14%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-6178.4	-0.0007	mg/L	0.00120	-0.0007	mg/L	0.00120	184.52%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1837.8	0.0288	mg/L	0.00110	0.0288	mg/L	0.00110	3.82%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Calcium,7440-70-2†	217.4	0.0034	mg/L	0.00187	0.0034	mg/L	0.00187	55.24%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Cadmium,7440-43-9†	2.8	0.0005	mg/L	0.00245	0.0005	mg/L	0.00245	514.51%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Chromium,7440-47-3†	7.0	0.0001	mg/L	0.00064	0.0001	mg/L	0.00064	893.14%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-10.0	-0.0020	mg/L	0.00096	-0.0020	mg/L	0.00096	46.87%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	388.8	0.0038	mg/L	0.00248	0.0038	mg/L	0.00248	65.33%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	76.4	0.0101	mg/L	0.00058	0.0101	mg/L	0.00058	5.76%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	-3.2	-0.0024	mg/L	0.00222	-0.0024	mg/L	0.00222	90.57%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								
Lithium,7439-93-2†	-70.2	-0.0510	mg/L	0.07672	-0.0510	mg/L	0.07672	150.40%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated								
Magnesium,7439-95-4†	90.1	0.0063	mg/L	0.00242	0.0063	mg/L	0.00242	38.27%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated								
Manganese,7439-96-5†	-1.8	0.0000	mg/L	0.00024	0.0000	mg/L	0.00024	>999.9%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated								
Molybdenum,7439-98-7†	0.1	0.0000	mg/L	0.00191	0.0000	mg/L	0.00191	>999.9%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated								
Nickel,7440-02-0†	-24.6	-0.0020	mg/L	0.00067	-0.0020	mg/L	0.00067	33.21%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated								
Selenium,7782-49-2†	13.0	0.0365	mg/L	0.01980	0.0365	mg/L	0.01980	54.22%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated								
Silver,7440-22-4†	31.8	0.0002	mg/L	0.00117	0.0002	mg/L	0.00117	725.61%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated								
Strontium,7440-24-6†	-24.2	-0.0004	mg/L	0.00235	-0.0004	mg/L	0.00235	577.18%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated								
Thallium,7440-28-0†	-1.4	-0.0062	mg/L	0.04128	-0.0062	mg/L	0.04128	663.41%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated								
Tin,7440-31-5†	-0.3	-0.0006	mg/L	0.00546	-0.0006	mg/L	0.00546	938.10%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated								
Titanium,7440-32-6†	18.1	0.0001	mg/L	0.00031	0.0001	mg/L	0.00031	601.67%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated								
Vanadium,7440-62-2†	9.8	0.0001	mg/L	0.00061	0.0001	mg/L	0.00061	>999.9%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated								
Zinc,7440-66-6†	8.8	0.0004	mg/L	0.00058	0.0004	mg/L	0.00058	146.16%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated								
Zirconium,7440-67-7†	186.4	0.0006	mg/L	0.00069	0.0006	mg/L	0.00069	120.47%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 83
Sample ID: 20506162406
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 77
Date Collected: 6/21/2005 12:29:12 AM
Data Type: Reprocessed on 6/21/2005 8:27:08 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162406

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1220831.9	108.09	%	1.068				0.99%
Yttrium,7440-65-5R	2244525.8	108.00	%	1.059				0.98%
Scandium	1795826.1	108.06	%	1.013				0.94%
Ar 420.069	1294016.3	106.00	%	0.198				0.19%
Aluminum,7429-90-5†	-1012.2	-0.1133	mg/L	0.01238	-0.1133	mg/L	0.01238	10.93%
Antimony,7440-36-0†	0.3	0.0010	mg/L	0.00678	0.0010	mg/L	0.00678	677.16%
Arsenic,7440-38-2†	2.9	0.0110	mg/L	0.00717	0.0110	mg/L	0.00717	65.10%
Barium,7440-39-3†	-10.0	-0.0005	mg/L	0.00012	-0.0005	mg/L	0.00012	25.01%
Beryllium,7440-41-7†	-18744.9	-0.0020	mg/L	0.00020	-0.0020	mg/L	0.00020	9.99%
Boron,7440-42-8†	719.0	0.0113	mg/L	0.00157	0.0113	mg/L	0.00157	13.96%
Calcium,7440-70-2†	1306.9	0.0204	mg/L	0.00243	0.0204	mg/L	0.00243	11.93%
Cadmium,7440-43-9†	-4.0	-0.0007	mg/L	0.00089	-0.0007	mg/L	0.00089	128.18%
Chromium,7440-47-3†	-143.0	-0.0012	mg/L	0.00080	-0.0012	mg/L	0.00080	66.92%
Cobalt,7440-48-4†	-7.7	-0.0016	mg/L	0.00100	-0.0016	mg/L	0.00100	63.64%
Copper,7440-50-8†	404.0	0.0040	mg/L	0.00081	0.0040	mg/L	0.00081	20.52%
Iron,7439-89-6†	55.7	0.0074	mg/L	0.00173	0.0074	mg/L	0.00173	23.39%
Lead,7439-92-1†	-5.3	-0.0040	mg/L	0.00364	-0.0040	mg/L	0.00364	90.90%
Lithium,7439-93-2†	-103.6	-0.0753	mg/L	0.04992	-0.0753	mg/L	0.04992	66.30%
Magnesium,7439-95-4†	20.3	0.0014	mg/L	0.00298	0.0014	mg/L	0.00298	208.51%
Manganese,7439-96-5†	-19.7	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	62.95%
Molybdenum,7439-98-7†	0.8	0.0003	mg/L	0.00135	0.0003	mg/L	0.00135	503.57%
Nickel,7440-02-0†	-3.6	-0.0003	mg/L	0.00093	-0.0003	mg/L	0.00093	310.71%
Selenium,7782-49-2†	8.3	0.0233	mg/L	0.01232	0.0233	mg/L	0.01232	52.76%
Silver,7440-22-4†	-174.3	-0.0009	mg/L	0.00025	-0.0009	mg/L	0.00025	28.57%
Strontium,7440-24-6†	-18.2	-0.0003	mg/L	0.00131	-0.0003	mg/L	0.00131	424.98%
Thallium,7440-28-0†	1.2	0.0053	mg/L	0.02958	0.0053	mg/L	0.02958	560.83%
Tin,7440-31-5†	-4.3	-0.0076	mg/L	0.00538	-0.0076	mg/L	0.00538	70.85%
Titanium,7440-32-6†	-82.5	-0.0002	mg/L	0.00014	-0.0002	mg/L	0.00014	58.44%
Vanadium,7440-62-2†	87.6	0.0005	mg/L	0.00022	0.0005	mg/L	0.00022	42.95%
Zinc,7440-66-6†	76.3	0.0034	mg/L	0.00021	0.0034	mg/L	0.00021	6.32%
Zirconium,7440-67-7†	-710.6	-0.0022	mg/L	0.00010	-0.0022	mg/L	0.00010	4.42%

Sequence No.: 84
Sample ID: 20506162407
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 78
Date Collected: 6/21/2005 12:34:14 AM
Data Type: Reprocessed on 6/21/2005 8:27:10 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162407

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1228245.0	108.75	%	0.951				0.87%
Yttrium,7440-65-5R	2258515.3	108.67	%	0.980				0.90%
Scandium	1820698.9	109.55	%	0.934				0.85%
Ar 420.069	1289341.6	105.62	%	0.148				0.14%
Aluminum,7429-90-5†	-441.4	-0.0495	mg/L	0.02509	-0.0495	mg/L	0.02509	50.66%
Antimony,7440-36-0†	1.2	0.0037	mg/L	0.01988	0.0037	mg/L	0.01988	538.03%
Arsenic,7440-38-2†	6.9	0.0263	mg/L	0.01678	0.0263	mg/L	0.01678	63.87%
Barium,7440-39-3†	398.0	0.0189	mg/L	0.00049	0.0189	mg/L	0.00049	2.61%
Beryllium,7440-41-7†	-18084.8	-0.0019	mg/L	0.00016	-0.0019	mg/L	0.00016	8.48%
Boron,7440-42-8†	988.6	0.0155	mg/L	0.00094	0.0155	mg/L	0.00094	6.07%
Calcium,7440-70-2†	42337.8	0.6603	mg/L	0.07077	0.6603	mg/L	0.07077	10.72%
Cadmium,7440-43-9†	-3.0	-0.0005	mg/L	0.00074	-0.0005	mg/L	0.00074	141.85%
Chromium,7440-47-3†	-58.0	-0.0005	mg/L	0.00061	-0.0005	mg/L	0.00061	133.13%
Cobalt,7440-48-4†	-7.7	-0.0016	mg/L	0.00093	-0.0016	mg/L	0.00093	59.26%
Copper,7440-50-8†	460.1	0.0045	mg/L	0.00042	0.0045	mg/L	0.00042	9.27%
Iron,7439-89-6†	576.1	0.0764	mg/L	0.00288	0.0764	mg/L	0.00288	3.77%
Lead,7439-92-1†	1.3	0.0010	mg/L	0.00112	0.0010	mg/L	0.00112	118.22%

Lithium,7439-93-2†	-69.7	-0.0509 mg/L	0.02910	-0.0509 mg/L	0.02910	57.14%
Magnesium,7439-95-4†	8689.0	0.6092 mg/L	0.02300	0.6092 mg/L	0.02300	3.77%
Manganese,7439-96-5†	327.2	0.0024 mg/L	0.00003	0.0024 mg/L	0.00003	1.35%
Molybdenum,7439-98-7†	1.0	0.0004 mg/L	0.00252	0.0004 mg/L	0.00252	708.31%
Nickel,7440-02-0†	-10.5	-0.0009 mg/L	0.00113	-0.0009 mg/L	0.00113	130.84%
Selenium,7782-49-2†	3.1	0.0087 mg/L	0.00700	0.0087 mg/L	0.00700	80.04%
Silver,7440-22-4†	-255.4	-0.0012 mg/L	0.00068	-0.0012 mg/L	0.00068	54.89%
Strontium,7440-24-6†	325.6	0.0054 mg/L	0.00083	0.0054 mg/L	0.00083	15.36%
Thallium,7440-28-0†	0.2	0.0009 mg/L	0.02419	0.0009 mg/L	0.02419	>999.9%
Tin,7440-31-5†	-3.3	-0.0056 mg/L	0.00362	-0.0056 mg/L	0.00362	64.60%
Titanium,7440-32-6†	460.7	0.0013 mg/L	0.00011	0.0013 mg/L	0.00011	8.28%
Vanadium,7440-62-2†	168.1	0.0010 mg/L	0.00043	0.0010 mg/L	0.00043	43.05%
Zinc,7440-66-6†	402.8	0.0176 mg/L	0.00019	0.0176 mg/L	0.00019	1.08%
Zirconium,7440-67-7†	-726.0	-0.0022 mg/L	0.00042	-0.0022 mg/L	0.00042	19.00%

Sequence No.: 85
Sample ID: 20506162408
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 79
Date Collected: 6/21/2005 12:39:08 AM
Data Type: Reprocessed on 6/21/2005 8:27:11 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 20506162408

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1230659.4	108.96	%	0.878				0.81%
Yttrium,7440-65-5R	2263139.0	108.89	%	0.903				0.83%
Scandium	1825142.6	109.82	%	0.862				0.78%
Ar 420.069	1296601.4	106.21	%	0.180				0.17%
Aluminum,7429-90-5†	442.1	0.0493	mg/L	0.00959	0.0493	mg/L	0.00959	19.44%
Antimony,7440-36-0†	-4.8	-0.0153	mg/L	0.00171	-0.0153	mg/L	0.00171	11.17%
Arsenic,7440-38-2†	3.5	0.0134	mg/L	0.00355	0.0134	mg/L	0.00355	26.57%
Barium,7440-39-3†	349.8	0.0166	mg/L	0.00032	0.0166	mg/L	0.00032	1.92%
Beryllium,7440-41-7†	-20146.8	-0.0021	mg/L	0.00004	-0.0021	mg/L	0.00004	1.83%
Boron,7440-42-8†	667.9	0.0105	mg/L	0.00114	0.0105	mg/L	0.00114	10.90%
Calcium,7440-70-2†	60682.2	0.9464	mg/L	0.00801	0.9464	mg/L	0.00801	0.85%
Cadmium,7440-43-9†	-1.6	-0.0003	mg/L	0.00100	-0.0003	mg/L	0.00100	355.60%
Chromium,7440-47-3†	13.2	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	106.21%
Cobalt,7440-48-4†	-0.9	-0.0002	mg/L	0.00105	-0.0002	mg/L	0.00105	560.95%
Copper,7440-50-8†	444.5	0.0044	mg/L	0.00025	0.0044	mg/L	0.00025	5.84%
Iron,7439-89-6†	655.9	0.0869	mg/L	0.00190	0.0869	mg/L	0.00190	2.19%
Lead,7439-92-1†	-0.7	-0.0005	mg/L	0.00146	-0.0005	mg/L	0.00146	278.44%
Lithium,7439-93-2†	-49.4	-0.0362	mg/L	0.03547	-0.0362	mg/L	0.03547	97.86%
Magnesium,7439-95-4†	8309.1	0.5825	mg/L	0.00862	0.5825	mg/L	0.00862	1.48%
Manganese,7439-96-5†	632.7	0.0046	mg/L	0.00027	0.0046	mg/L	0.00027	5.89%
Molybdenum,7439-98-7†	5.1	0.0017	mg/L	0.00200	0.0017	mg/L	0.00200	118.88%
Nickel,7440-02-0†	6.1	0.0005	mg/L	0.00027	0.0005	mg/L	0.00027	54.22%
Selenium,7782-49-2†	5.2	0.0146	mg/L	0.02701	0.0146	mg/L	0.02701	185.53%
Silver,7440-22-4†	-337.5	-0.0016	mg/L	0.00056	-0.0016	mg/L	0.00056	34.39%
Strontium,7440-24-6†	274.7	0.0046	mg/L	0.00186	0.0046	mg/L	0.00186	40.82%
Thallium,7440-28-0†	-1.6	-0.0071	mg/L	0.03720	-0.0071	mg/L	0.03720	525.86%
Tin,7440-31-5†	-1.2	-0.0018	mg/L	0.00308	-0.0018	mg/L	0.00308	169.57%
Titanium,7440-32-6†	1114.0	0.0031	mg/L	0.00024	0.0031	mg/L	0.00024	7.51%
Vanadium,7440-62-2†	246.5	0.0015	mg/L	0.00023	0.0015	mg/L	0.00023	15.84%
Zinc,7440-66-6†	81.4	0.0034	mg/L	0.00048	0.0034	mg/L	0.00048	14.16%
Zirconium,7440-67-7†	-709.3	-0.0022	mg/L	0.00022	-0.0022	mg/L	0.00022	10.20%

Sequence No.: 86
Sample ID: 1800
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/21/2005 12:44:03 AM
Data Type: Reprocessed on 6/21/2005 8:27:12 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1245594.5	110.29	%	1.439				1.30%

Yttrium,7440-65-5R	2291204.4	110.24 %	1.437			1.30%
Scandium	1848802.3	111.24 %	1.420			1.28%
Ar 420.069	1284432.0	105.22 %	0.493			0.47%
Aluminum,7429-90-5†	39264.9	4.3897 mg/L	0.07614	4.3897 mg/L	0.07614	1.73%
QC value less than the lower limit for Aluminum,7429-90-5 Recovery = 87.79%						
Antimony,7440-36-0†	142.1	0.4392 mg/L	0.00710	0.4392 mg/L	0.00710	1.62%
QC value less than the lower limit for Antimony,7440-36-0 Recovery = 87.84%						
Arsenic,7440-38-2†	117.7	0.4560 mg/L	0.00934	0.4560 mg/L	0.00934	2.05%
QC value within limits for Arsenic,7440-38-2 Recovery = 91.20%						
Barium,7440-39-3†	9687.0	0.4615 mg/L	0.00840	0.4615 mg/L	0.00840	1.82%
QC value within limits for Barium,7440-39-3 Recovery = 92.30%						
Beryllium,7440-41-7†	4337198.9	0.4550 mg/L	0.00850	0.4550 mg/L	0.00850	1.87%
QC value within limits for Beryllium,7440-41-7 Recovery = 91.00%						
Boron,7440-42-8†	143167.2	2.2409 mg/L	0.03429	2.2409 mg/L	0.03429	1.53%
QC value within limits for Boron,7440-42-8 Recovery = 89.63%						
Calcium,7440-70-2†	290074.2	4.5237 mg/L	0.05584	4.5237 mg/L	0.05584	1.23%
QC value within limits for Calcium,7440-70-2 Recovery = 90.47%						
Cadmium,7440-43-9†	2671.5	0.4612 mg/L	0.00815	0.4612 mg/L	0.00815	1.77%
QC value within limits for Cadmium,7440-43-9 Recovery = 92.23%						
Chromium,7440-47-3†	53363.2	0.4551 mg/L	0.00695	0.4551 mg/L	0.00695	1.53%
QC value within limits for Chromium,7440-47-3 Recovery = 91.02%						
Cobalt,7440-48-4†	2259.1	0.4584 mg/L	0.00863	0.4584 mg/L	0.00863	1.88%
QC value within limits for Cobalt,7440-48-4 Recovery = 91.68%						
Copper,7440-50-8†	44726.6	0.4377 mg/L	0.00680	0.4377 mg/L	0.00680	1.55%
QC value less than the lower limit for Copper,7440-50-8 Recovery = 87.54%						
Iron,7439-89-6†	34419.5	4.5578 mg/L	0.06357	4.5578 mg/L	0.06357	1.39%
QC value within limits for Iron,7439-89-6 Recovery = 91.16%						
Lead,7439-92-1†	614.0	0.4608 mg/L	0.00946	0.4608 mg/L	0.00946	2.05%
QC value within limits for Lead,7439-92-1 Recovery = 92.15%						
Lithium,7439-93-2†	455.1	0.3140 mg/L	0.03820	0.3140 mg/L	0.03820	12.16%
QC value less than the lower limit for Lithium,7439-93-2 Recovery = 62.80%						
Magnesium,7439-95-4†	65191.2	4.5720 mg/L	0.06108	4.5720 mg/L	0.06108	1.34%
QC value within limits for Magnesium,7439-95-4 Recovery = 91.44%						
Manganese,7439-96-5†	61716.6	0.4479 mg/L	0.00415	0.4479 mg/L	0.00415	0.93%
QC value within limits for Manganese,7439-96-5 Recovery = 89.58%						
Molybdenum,7439-98-7†	1439.1	0.4660 mg/L	0.01221	0.4660 mg/L	0.01221	2.62%
QC value within limits for Molybdenum,7439-98-7 Recovery = 93.20%						
Nickel,7440-02-0†	5553.0	0.4550 mg/L	0.00758	0.4550 mg/L	0.00758	1.67%
QC value within limits for Nickel,7440-02-0 Recovery = 91.00%						
Selenium,7782-49-2†	168.3	0.4750 mg/L	0.01758	0.4750 mg/L	0.01758	3.70%
QC value within limits for Selenium,7782-49-2 Recovery = 95.00%						
Silver,7440-22-4†	89039.6	0.4518 mg/L	0.00597	0.4518 mg/L	0.00597	1.32%
QC value within limits for Silver,7440-22-4 Recovery = 90.36%						
Strontium,7440-24-6†	24922.4	0.4194 mg/L	0.00675	0.4194 mg/L	0.00675	1.61%
QC value less than the lower limit for Strontium,7440-24-6 Recovery = 83.88%						
Thallium,7440-28-0†	99.7	0.4578 mg/L	0.03319	0.4578 mg/L	0.03319	7.25%
QC value within limits for Thallium,7440-28-0 Recovery = 91.57%						
Tin,7440-31-5†	254.7	0.4545 mg/L	0.01046	0.4545 mg/L	0.01046	2.30%
QC value within limits for Tin,7440-31-5 Recovery = 90.89%						
Titanium,7440-32-6†	159596.8	0.4508 mg/L	0.00941	0.4508 mg/L	0.00941	2.09%
QC value within limits for Titanium,7440-32-6 Recovery = 90.16%						
Vanadium,7440-62-2†	76048.4	0.4539 mg/L	0.00636	0.4539 mg/L	0.00636	1.40%
QC value within limits for Vanadium,7440-62-2 Recovery = 90.78%						
Zinc,7440-66-6†	10440.8	0.4557 mg/L	0.00726	0.4557 mg/L	0.00726	1.59%
QC value within limits for Zinc,7440-66-6 Recovery = 91.15%						
Zirconium,7440-67-7†	143100.9	0.4401 mg/L	0.00736	0.4401 mg/L	0.00736	1.67%
QC value less than the lower limit for Zirconium,7440-67-7 Recovery = 88.01%						

QC Failed. Continue with analysis.

Sequence No.: 87
Sample ID: 1900
Analyst:
Logged In Analyst (Original) : met
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/21/2005 12:49:11 AM
Data Type: Reprocessed on 6/21/2005 8:27:14 AM

Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Yttrium,7440-65-5A	1182186.1	104.67	%	0.885				0.85%

Yttrium,7440-65-5R	2173871.1	104.60 %	0.888			0.85%
Scandium	1736860.1	104.51 %	0.918			0.88%
Ar 420.069	1286378.1	105.38 %	0.393			0.37%
Aluminum,7429-90-5†	-855.7	-0.0958 mg/L	0.00886	-0.0958 mg/L	0.00886	9.25%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated						
Antimony,7440-36-0†	-1.6	-0.0050 mg/L	0.01491	-0.0050 mg/L	0.01491	299.54%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated						
Arsenic,7440-38-2†	5.4	0.0207 mg/L	0.01058	0.0207 mg/L	0.01058	51.14%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated						
Barium,7440-39-3†	-7.4	-0.0004 mg/L	0.00042	-0.0004 mg/L	0.00042	119.10%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated						
Beryllium,7440-41-7†	-10607.8	-0.0011 mg/L	0.00032	-0.0011 mg/L	0.00032	28.48%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated						
Boron,7440-42-8†	1218.2	0.0191 mg/L	0.00240	0.0191 mg/L	0.00240	12.61%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated						
Calcium,7440-70-2†	158.0	0.0025 mg/L	0.00098	0.0025 mg/L	0.00098	39.84%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated						
Cadmium,7440-43-9†	-5.3	-0.0009 mg/L	0.00108	-0.0009 mg/L	0.00108	118.66%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated						
Chromium,7440-47-3†	-69.9	-0.0006 mg/L	0.00011	-0.0006 mg/L	0.00011	18.96%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated						
Cobalt,7440-48-4†	0.8	0.0002 mg/L	0.00072	0.0002 mg/L	0.00072	448.67%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated						
Copper,7440-50-8†	355.5	0.0035 mg/L	0.00068	0.0035 mg/L	0.00068	19.61%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated						
Iron,7439-89-6†	74.8	0.0099 mg/L	0.00013	0.0099 mg/L	0.00013	1.27%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated						
Lead,7439-92-1†	-6.4	-0.0048 mg/L	0.00486	-0.0048 mg/L	0.00486	100.72%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated						
Lithium,7439-93-2†	-62.7	-0.0456 mg/L	0.03070	-0.0456 mg/L	0.03070	67.32%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated						
Magnesium,7439-95-4†	60.1	0.0042 mg/L	0.00447	0.0042 mg/L	0.00447	105.97%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated						
Manganese,7439-96-5†	-7.1	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	171.76%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated						
Molybdenum,7439-98-7†	5.3	0.0017 mg/L	0.00011	0.0017 mg/L	0.00011	6.09%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated						
Nickel,7440-02-0†	-16.0	-0.0013 mg/L	0.00020	-0.0013 mg/L	0.00020	15.35%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated						
Selenium,7782-49-2†	5.1	0.0143 mg/L	0.00241	0.0143 mg/L	0.00241	16.79%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated						
Silver,7440-22-4†	-118.7	-0.0006 mg/L	0.00037	-0.0006 mg/L	0.00037	62.23%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated						
Strontium,7440-24-6†	30.6	0.0005 mg/L	0.00226	0.0005 mg/L	0.00226	438.95%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated						
Thallium,7440-28-0†	-1.6	-0.0073 mg/L	0.01174	-0.0073 mg/L	0.01174	160.00%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated						
Tin,7440-31-5†	0.2	0.0003 mg/L	0.00672	0.0003 mg/L	0.00672	>999.9%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated						
Titanium,7440-32-6†	81.1	0.0002 mg/L	0.00025	0.0002 mg/L	0.00025	109.44%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated						
Vanadium,7440-62-2†	90.5	0.0005 mg/L	0.00034	0.0005 mg/L	0.00034	64.24%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated						
Zinc,7440-66-6†	20.0	0.0009 mg/L	0.00052	0.0009 mg/L	0.00052	58.43%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated						
Zirconium,7440-67-7†	29.1	0.0001 mg/L	0.00083	0.0001 mg/L	0.00083	934.49%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated						

All analyte(s) passed QC.

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	6-18-05 10:30	BATCH NO:	293879
MATRIX:	WATER ☑ SOIL ☐ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.7 ☐ 3010A ☑ 3050B ☐ 3051 ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOLWT (mL) g	FINAL VOLUME (mL)	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 293879 [DIGM/8973]	250683	50	50		HNO3
2	QC ACCOUNT	LCS for HBN 293879 [DIGM/8973]	250684				334-41-10
3	4380	86-CEF43-2N-Q2-05	20506170501				HCL
4	4380	86-CEF43-6N-Q2-05	20506170502				334-41-4
5	4380	86-CEF43-7N-Q2-05	20506170503				H2O2
6	4380	86-CEF43-9N-Q2-05	20506170504				
7	4380	86-CEF43-33N-Q2-05	20506170505				
8	4380	86-CEF43-38N-Q2-05	20506170506				
9	4380	86-MS-Q2-05	20506170507				
10	4380	86-MSD-Q2-05	20506170508				
11	4380	86-DUP-Q2-05	20506170509				
12	4380	86-EB-Q2-05	20506170510				
13							
14							
15							
16							
17							SPIKING SOLUTIONS (LCS/MS)
18							
19							GCALI-1 - 250uL
20							334-40-6
21							GCALI-2 - 250uL
22							334-40-7
23							ORGANOMETALLIC ICP SPIKE 0.025g
24							
25							
26							
27							
28							

COMMENTS:

BLOCK ID	TECHNICIAN	DATE
A-2	JEL	6-18-05
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JEL	MAP	6-18-05

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
ICV1	136-47-1	21 element mix	CPI	41M044 3-15-06	2ml	200ml	varied	102-60-8	JAC	6-9-05	7-9-05
		1000ppm CA	Exaxol	050325 9-06	1800ul						
		Fe		050127 7-06							
		MG		050325 9-06							
		Al		050420 10-06	2000ul						
		NA		050325 9-06							
		K		050325 9-06							
		B		041109 5-06	1000ul						
		BA		041109 5-06	200ul						
		Sn		040721 7-05							
		Ag		041109 5-06							
ICV2	136-47-2	1000ppm Zr	Exaxol	040721/7-05	100ul	100ml	1.00ppm	102-60-8	KRM	6-9-05	7-9-05
1ppm Hg	136-473	1000ppm Hg	Exaxol	040721 1-06	50µL	50mL	1.00ppm	2% HNO_3	AJW	6-9-05	7-9-05
CRDL Low level	136-47-4	CRDL Low level Stock	in house	136-45-1 7-4-05	200ul	20ml	varied	102-60-8	KRM	6-10-05	7-10-05
				VOID		date 6-10-05					

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
CRDL BF1	136-49-1	136-48-1	In house	136-48-1 7-12-05	500µl	50ml	varied	102-60-8	kmm	6-13-05	7-13-05
STD1	136-49-2	GCAL1-1A GCAL1-2A	Inorganic Ventures	WMEB161095 9-1-05 WMEB161094 9-1-05	2ml	200ml	Varied	102-60-8	AJW	6-14-05	7-14-05
		1000ppm Zr	Ultra Scientific	D100609 12-06	200µl						
CRDL	~~139~~-49-3 136 (kmm) 6-15-05	GCAL3 GCAL4	Inorganic Ventures	YMEB187033 4-1-06 YMEB187034 4-1-06	100µl	100ml	Varied	102-60-8	AJW	6-14-05	7-14-05
0.01ppm Vn	~~134~~-49-4 136 (kmm) 6-15-05	1ppm Vn	In house	Exaxol 1000ppm Vn 041222/6-06							
1ppm Vn	~~134~~-49-4 136 (kmm)	1000ppm Vn	Exaxol	041222/6-06	10µl	10ml	1.0ppm	102-60-8	AJW	6-14-05	7-14-05
0.01 ppm Vn	~~134~~-49-5 136 (kmm) 6-15-05	1.0ppm Vn	In house	134-49-4 7-14-05	100µl	10ml	0.01ppm	102-60-8	AJW	6-14-05	7-14-05
ICSA	136-49-6	IntA	Spex	26-132AS 9-30-05	8ml	200ml	varied	102-60-8	kmm	6-15-05	7-15-05
ICSAB	136-49-7	IntA		26-132AS 9-30-05	8ml	200ml	varied	102-60-8	kmm	6-15-05	7-15-05
		Analytes 5 All Analytes 5		27-94AS/11-15-05 27-95AS/1-30-06	2ml						

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
7.5 ppm Na	146-1-1	1000ppm Na	Exaxol	050325 9-06	75µL	10mL	7.5ppm	102-60-8	AJW	6-16-05	7-16-05
CRDL 0.75ppm Na	146-1-2	146-1-1	In house	146-1-1 7-16-05	100µL	10mL	0.75ppm	102-60-8	AJW	6-16-05	7-16-05
STD1	146-1-3	GCALI-1A GCALI-2A	Inorganic ventures	WMEB161095 9-1-05 WMEB161094 9-1-05	5mL	500mL	Varied	102-60-8	AJW	6-16-05	7-16-05
		1000ppm Zr	Ultra Scientific	D00609 12-06	500µL						
CRDL low level stock	146-1-4	1000ppm Be	Exaxol	050127/7-06	20µL	10mL	2ppm	102-60-16	AJW	6-17-05	7-17-05
		Fe		050127/7-06	500µL		50ppm				
		Mn		041217/6-06	100µL		10ppm				
		Ni		041217/6-06	300µL		30ppm				
		Na		050325/ 9-06	3,000µL		300ppm				
CRDL low level	146-1-5	146-1-4	In house	146-1-4 7-17-05	50µL	50mL	0.002 Be 0.05 Fe 0.01 Mn 0.03 Ni 0.3 Na	102-60-16	AJW	6-17-05	7-17-05
			VOID								

000631

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
ICV 1	~~1~~ AJW 6-17-05 146-2-1	21 element mix	CPI	05F011 12-6-06	2mL	200mL	Varied	102-60-16	AJW	6-17-05	7-17-05
		1000ppm Ca	Exaxol	050325/9-06	1800µL						
		Fe		050127/7-06							
		Mg		050325/9-06							
		Al		050420/10-06	2mL						
		Na		050325/9-06							
		K		050325/9-06							
		B		041109/5-06	1mL						
		Ba		041109/5-06	200µL						
		Sn		040721/7-05							
		Ag		041109/5-06							
CRDL	146-2-2	GCAL 3 GCAL4	Inorganic Ventures	YME187033 4-1-06 YME187034 4-1-06	100µL	100mL	Varied	102-60-16	AJW	6-17-05	7-17-05
CRDL	146-2-3	GCAL 3 GCAL4	Inorganic Ventures	YME187033 4-1-06 YME187034 4-1-06	100 µl	100 ml	varied	102-60-16	kjm	6-18-05	7-18-05
CRDL Cu 0.005	146-2-4	10ppm Cu	Exaxol	040520/11-05	50µl	100ml	0.005 ppm	102-60-16	kjm	6-18-05	7-18-05

VOID

000632

000002

REAGENT LOGBOOK

STANDARD NAME	STD#	STOCK REAGENT	SUPPLIER	LOT#	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INIT	DATE PREPARED	EXP DATE
HNO_3	334-41-1	CONC. HNO_3	Fisher	1104120					JEL	6-2-05	6-2-06
Aqua Regia	334-41-2	CONC- HNO_3 CONC HCL	Fisher	1104120 4104090	200 HNO_3 600 HCL	800mL			JEL	6-2-05	6-2-06
Hg Cali CCV	334-41-3	1ppm Hg	in House	136-27-5	1mL	10mL	0.1ppm		JEL	6-2-05	6-2-06
Hg Cali ICV	334-41-4	↓	↓	136-27-6	↓	↓	↓		↓	↓	↓
Hg Cali CCV	334-41-5	1ppm Hg	in House	136-45-3	1mL	10mL	0.1ppm		JEL	6-6-05	6-6-06
Hg Cali ICV	334-41-6	↓	↓	136-45-4	↓	↓	↓		↓	↓	↓
HCL	334-41-7	CONC HCL	Fisher	4104090					JEL	6-6-05	6-6-06
$KMNO_4$	334-41-8	Potassium Permanganate	Fisher	977645	5g	100mL			JEL	6-10-05	6-10-06
$K_2S_2O_6$	334-41-9	Potassium Persulfate	Fisher	041401	100g	2000mL			JEL	6-10-05	6-10-06
HNO_3	334-41-10	CONC-HNO_3	Fisher	N04120					JEL	6-10-05	6-10-06
Hg Cali CCV	334-41-11	1ppm Hg	in House	136-45-3	1mL	10mL	0.1ppm		JEL	6-10-05	6-10-06
Hg Cali ICV	334-41-12	↓	↓	136-45-4	↓	↓	↓		↓	↓	↓
HCL	334-41-13	CONC-HCL	Fisher	4104090					JEL	6-18-05	6-18-06
$KMNO_4$	334-41-14	Potassium Permanganate	Fisher	977645	5g	100mL			JEL	6-20-05	6-20-06
Hg Cali CCV	334-41-15	1ppm Hg	in House	136-45-3	1mL	10mL	0.1ppm		JEL	6-20-05	6-20-06
Hg Cali ICV	334-41-16	↓	↓	136-45-4	↓	↓	↓		↓	↓	↓
HNO_3	334-41-17	CONC HNO_3	Fisher	1104120					JEL	6-27-05	6-27-06
HCL	334-41-18	CONC-HCL	Fisher	4104120					JEL	6-27-05	6-27-06
Hg Cali CCV	334-41-19	1ppm Hg	in House	136-45-3	1mL	10mL	0.1ppm		JEL	6-27-05	6-27-06
Hg Cali ICV	334-41-20	↓	↓	136-45-4	↓	↓	↓		↓	↓	↓

REAG LOG 1-6-95

000634

CH2M Hill / 4380 / 20506 1705 / Due 6/24/05

CH2MHILL Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No: (770) 604-9182
Fax No: (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: 171591-040 page 1 of 1

PROJECT NAME:	PROJECT NUMBER:	LAB NAME AND CONTACT:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No.):
Former N.A.S. Cecil Field South Fuel Farm	271591	Gulf Coast Labs. Dano Merril	Kama White CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT PHASE/SITE/TASK:	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No.):
South Fuel Farm Annual GW Sampling Event	0086	6442	Jeff Marks CH2M Hill Constuctors, Inc.	6219 Authority Ave. Jacksonville, FL 32221 (904) 7774812,FAX: (904) 7774262
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	TVOH by ~~8021B~~ 8260	BTEX & MTBE by ~~8021B~~ 8260	PAHs by 8310	Lead by 6010B	TRPH by FL-PRO				SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86-CEF43-2N-Q2-05	CEF-043-2N	W	06/16/05	1050	III/C	14	3	2	1	2					Grab		-1
2	86-CEF43-6N-Q2-05	CEF-043-6N	W	06/16/05	1145	III/C	14	3	2	1	2					Grab		-2
3	86-CEF43-7N-Q2-05	CEF-043-7N	W	06/16/05	1320	III/C	14	3	2	1	2					Grab		3
4	86-CEF43-9N-Q2-05	CEF-043-9N	W	06/16/05	1425	III/C	14	3	2	1	2					Grab		4
5	86-CEF43-33N-Q2-05	CEF-043-33N	W	06/16/05	1620	III/C	14	3	2	1	2					Grab	MS/MSD	5
6	86-CEF43-38N-Q2-05	CEF-043-38N	W	06/16/05	1525	III/C	14	3	2	1	2					Grab		6
7	86-MS-Q2-05	Matrix Spike	W	06/16/05	1620	III/C	14	3	2	1	2					Grab	CEF-043-33N	7
8	86-MSD-Q2-05	Matrix Spike Duplicate	W	06/16/05	1620	III/C	14	3	2	1	2					Grab	CEF-043-33N	8
9	86-DUP-Q2-05	Field Duplicate	W	NA	NA	III/C	14	3	2	1	2					Grab		9
10	86-EB-Q2-05	Equipment Blank	W	06/16/05	1650	III/C	14	3	2	1	2					Grab		10
11	86-TB-Q2-05	Trip Blank	W	NA	NA	III/C	14	3								Grab	Prepared by Lab	11

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Greg Ramey AGVIQ Environmental Services / CH2M HILL	Federal Express TRK # 791654035748, 791654035770, 791654035818, 791654035851, 791654035873, 791654035895.	3°C

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	6/16/2005	11:00	Federal Express TRK # 791654035748, 791654035770, 791654035818, 791654035851, 791654035873, 791654035895.	6/16/2005	11:00
Printed Name and Signature:			Printed Name and Signature:		
FedEx	6/17/05	1020	Kama Kuchler	6/17/05	1020
Printed Name and Signature:			Printed Name and Signature:		

Distribution: [ ] **Original** - Laboratory (To be returned with Analytical Report); [ ] **Copy 1** - Project File; [ ] **Copy 2** - PMO

Form CCI001, Rev 02/00

000635

20506 1705

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	205061705	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	CTO 86 Cecil Field - South Fue	**Status:**	WP
Project Seq:	30593	**Created:**	6/17/2005 12:45
Client:	4380 - CH2M Hill Constructors	**QA:**	
Profile:	42891 - CTO 0086 - CTO 86 Cecil Field - South Fuel Farm	**PO:**	6421

WORKORDER SAMPLES

			pH PRESERVATIVE			VOA HEADSPACE			
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20506170501-1	LA	NONE			X			X	OK
20506170501-2	LA	NONE			X			X	OK
20506170501-3	LA	H2SO4	✓					X	OK
20506170501-4	LA	H2SO4	✓					X	OK
20506170501-5	OC	HNO3	✓					X	OK
20506170501-6	40	HCL+STS			✓	✓			OK
20506170501-7	40	HCL+STS			✓	✓			OK
20506170501-8	40	HCL+STS			✓	✓			

Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20506170502-1	LA	NONE			X			X	OK
20506170502-2	LA	NONE			X			X	OK
20506170502-3	LA	H2SO4	✓					X	OK
20506170502-4	LA	H2SO4	✓					X	OK
20506170502-5	OC	HNO3	✓					X	OK
20506170502-6	40	HCL+STS			✓	✓			OK
20506170502-7	40	HCL+STS			✓	✓			OK
20506170502-8	40	HCL+STS			✓	✓			

Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20506170503-1	LA	NONE			X			X	OK
20506170503-2	LA	NONE			X			X	OK
20506170503-3	LA	H2SO4	✓					X	OK
20506170503-4	LA	H2SO4	✓					X	OK
20506170503-5	OC	HNO3	✓					X	OK
20506170503-6	40	HCL+STS			✓	✓			OK
20506170503-7	40	HCL+STS			✓	✓			OK
20506170503-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N\A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N\A	CONTAINER CONDITION
20506170504-1	LA	NONE			X			X	OK
20506170504-2	LA	NONE			X			X	OK
20506170504-3	LA	H2SO4	✓					X	OK
20506170504-4	LA	H2SO4	✓					X	OK
20506170504-5	OC	HNO3	✓			✓		X	OK
20506170504-6	40	HCL+STS			✓	✓			OK
20506170504-7	40	HCL+STS			✓	✓			OK
20506170504-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170505-1	LA	NONE			X			X	OK
20506170505-2	LA	NONE			X			X	OK
20506170505-3	LA	H2SO4	✓					X	OK
20506170505-4	LA	H2SO4	✓					X	OK
20506170505-5	OC	HNO3	✓			✓		X	OK
20506170505-6	40	HCL+STS			✓	✓			OK
20506170505-7	40	HCL+STS			✓	✓			OK
20506170505-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170506-1	LA	NONE			X			X	OK
20506170506-2	LA	NONE			X			X	OK
20506170506-3	LA	H2SO4	✓					X	OK
20506170506-4	LA	H2SO4	✓					X	OK
20506170506-5	OC	HNO3	✓			✓		X	OK
20506170506-6	40	HCL+STS			✓	✓			OK
20506170506-7	40	HCL+STS			✓	✓			OK
20506170506-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170507-1	LA	NONE			X			X	OK
20506170507-2	LA	NONE			X			X	OK
20506170507-3	LA	H2SO4	✓					X	OK
20506170507-4	LA	H2SO4	✓					X	OK
20506170507-5	OC	HNO3	✓			✓		X	OK
20506170507-6	40	HCL+STS			✓	✓			OK
20506170507-7	40	HCL+STS			✓	✓			OK
20506170507-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	pH PRESERVATIVE A	pH PRESERVATIVE U	pH PRESERVATIVE N\A	VOA HEADSPACE A	VOA HEADSPACE U	VOA HEADSPACE N\A	CONTAINER CONDITION
20506170508-1	LA	NONE			X			X	OK
20506170508-2	LA	NONE			X			X	OK
20506170508-3	LA	H2SO4	✓					X	OK
20506170508-4	OC	HNO3	✓					X	OK
20506170508-5	40	HCL+STS			✓	✓			OK
20506170508-6	40	HCL+STS			✓	✓			OK
20506170508-7	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170509-1	LA	NONE			X			X	OK
20506170509-2	LA	NONE			X			X	OK
20506170509-3	LA	H2SO4	✓					X	OK
20506170509-4	LA	H2SO4	✓					X	OK
20506170509-5	OC	HNO3	✓					X	OK
20506170509-6	40	HCL+STS			✓	✓			OK
20506170509-7	40	HCL+STS			✓	✓			OK
20506170509-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170510-1	LA	NONE			X			X	OK
20506170510-2	LA	NONE			X			X	OK
20506170510-3	LA	H2SO4	✓					X	OK
20506170510-4	LA	H2SO4	✓					X	OK
20506170510-5	OC	HNO3	✓					X	OK
20506170510-6	40	HCL+STS			✓	✓			OK
20506170510-7	40	HCL+STS			✓	✓			OK
20506170510-8	40	HCL+STS			✓	✓			

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20506170511-1	40	HCL+STS			✓	✓			OK
20506170511-2	40	HCL+STS			✓	✓			OK
20506170511-3	40	HCL+STS			✓	✓			

A = ACCEPTABLE
U = UNACCEPTABLE
N\A = NOT APPLICABLE

COOLER (S) TEMPERATURE A U LIMIT = 4C + \ - 2C

MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

Custody Seal
used [✓] Yes [ ] No
in tact [✓] Yes [ ] No

LABEL(S) VERIFIED MSR CUSTODIAN AMK