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NAS CECIL FIELD, FL
5090.3a

CONSTRUCTION COMPLETION LETTER REPORT FOR DRUM AND STAINED SOIL REMOVAL AT BUILDING 238 GOLF COURSE MAINTENANCE AREA NAS CECIL FIELD FL

6/3/2005

CH2MHILL CONSTRUCTORS INC

CH2M HILL
115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA
30346-1278
Tel 770.604.9095
Fax 770.604.9282

June 3, 2005

NAVFAC EFD SOUTH
Attn: Mark Davidson
P.O. Box 190010
North Charleston, SC 15220

Subject: Construction Completion Letter Report
Contract Task Order (CTO) No. 0005
Former Naval Air Station (NAS) Cecil Field - Jacksonville, Florida
Drum and Stained Soil Removal at Building 238, Golf Course Maintenance Area

Dear Mr. Davidson:

CH2M HILL Constructors, Inc. (CH2M HILL) is pleased to submit this Construction Completion Letter Report for the referenced Contract Task Order (CTO). This report was prepared for the United States Naval Facilities Engineering Command, Engineering Field Division South (NAVFAC EFD SOUTH) under CTO No. 0005 for the Remedial Action Contract (RAC) No. N62467-98-D-0995. The contents of this report document the activities for drum and stained soil removal at Building 238, Golf Course Maintenance Area at former NAS Cecil Field, Jacksonville, Florida.

The Golf Course Maintenance Area consists of the area in the vicinity of Facilities 238, 370, 371, 397, and 874. The area is primarily unpaved and covers about 1.5 acres. A drainage ditch forms part of the east border of the area. A fence and trees isolate the area from the golf course on the east, northeast, and south. A large wooded area isolates the area from the golf course on the northwest and west sides.

During a Florida Department of Environmental Protection (FDEP) inspection in September 2004, four drums, a grease canister, and stained soil were noted on the north side of Building 238. The location of Building 238 and the site are shown in Figures 1 and 2 provided in Enclosure 1. Details of the drums, grease canister, and stained soil were as follows:

- One 55-gallon drum was labeled and appeared to contain SAE 10W-30 oil.
- One 55-gallon drum was labeled and appeared to contain lube oil.
- One 55-gallon drum was unlabeled and appeared to contain plastic sheeting and water.
- One 55-gallon drum was labeled as antifreeze (ethylene glycol) but was empty, upside down, and the lid was missing.
- The grease canister was labeled as Kendall grease and appeared to contain grease. The grease canister was in poor condition.

- Stained soil was present adjacent to the drums/grease canister.

In accordance with the Technical Clarification, dated January 13, 2005, received from NAVFAC EFD SOUTH, the project objective was to remove, transport, and dispose of the four drums, drum contents, grease canister, and visibly stained soil at Building 238 as a voluntary cleanup effort.

The scope of work for drum and stained soil removal at Building 238, Golf Course Maintenance Area as outlined in CTO No. 0005 Work Plan Addendum No. 20, Revision 00 (CH2M HILL, 2005) included the following:

- Mobilization and Site Preparation
- Backfill Material Certification
- Characterization of Drum Contents and Stained Soil
- Excavation and Backfill of Stained Soil
- Confirmatory Soil Sampling and Laboratory Analysis
- Transportation and Disposal (T&D) of Drum Contents, Drums, and Stained Soil
- Site Restoration
- Preparation and Submittal of a Construction Completion Letter Report

On February 8, 2005, during the course of an environmental conditions survey, it was observed that two 55-gallon drums previously on the site had been removed (one 55-gallon drum that was labeled and appeared to contain SAE 10W-30 oil and one 55-gallon drum that was labeled as antifreeze but was empty, upside down, with a missing lid). The surrounding buildings were searched but the missing drums were not located. After interviews were conducted with golf course employees and the used oil disposal company Safety-Kleen Systems, Inc., the following conclusion was reached: On January 18, 2005, Safety-Kleen Systems, Inc. was scheduled to remove the waste oil located in the containment system on the east side of Building 238 that contained three metal drums used for the storage of used oil and one plastic drum used for the storage of rags. When that operation was concluded, the golf course superintendent had the 55-gallon drum that was labeled and appeared to contain SAE 10W-30 oil pumped out as well. On January 19, 2005 when Safety-Kleen Systems, Inc. arrived to pick up the three metal drums from the containment system, the golf course superintendent had them remove the now empty 55-gallon drum that was labeled and appeared to contain SAE 10W-30 oil and the one empty 55-gallon drum that was labeled as antifreeze. The service call ticket indicating that used oil was removed from the Golf Course Maintenance Area and the waste manifest from Safety-Kleen Systems, Inc. indicating that five metal empty metal drums were picked up at the Golf Course Maintenance Area are provided in Enclosure 4.

Approximately 1.6 cubic yards of stained soil in the area adjacent to the drums/grease canister was hand excavated and direct loaded into six 55-gallon drums on February 17, 2005. The limits of excavation were determined by visual inspection during excavation by the CH2M HILL Project Manager and Quality Control Manager. The six 55-gallon drums along with the other 55-gallon drums and grease canister (placed within an empty 55-gallon drum) were placed in a temporary lined and bermed containment area. The excavation limits are shown in Figure 2 provided in Enclosure 1. Representative photographs are provided in Enclosure 2.

Following stained soil removal, one confirmatory sample (05283SCS050217) was collected from the most stained location based on visual inspection from the excavation floor and shipped for analysis at Gulf Coast Laboratories on February 17, 2005 for the following parameters:

- Benzene, ethylbenzene, toluene, and xylenes (BTEX) and methyl tert butyl ether (MTBE) by U. S. Environmental Protection Agency (EPA) Method 8260B
- 16-listed polynuclear aromatic hydrocarbons (PAHs) including 1- and 2-methylnaphthalene by EPA Method 8310
- Total recoverable petroleum hydrocarbons (TRPH) by FL-PRO Method

Laboratory analytical results were compared with the FDEP Residential and Leachability Soil Cleanup Target Levels (SCTLs) and showed no exceedance. The laboratory analytical report with summary table is provided in Enclosure 5.

The excavated area was backfilled to original grade in an even distribution with certified "Clean" granular fill material from Marietta Sand Corporation. Approved-laboratory analytical results from a representative sample of the fill material are provided in Enclosure 5.

Waste characterization samples were collected and shipped for analysis at Gulf Coast Laboratories on February 17, 2005 to determine the necessary handling and T&D requirements for the drum contents and excavated stained soil. One sample per waste stream was collected for disposal characterization as follows:

- The 55-gallon drum that was labeled and appeared to contain lube oil and the grease canister labeled as Kendall grease were analyzed for the following parameters:
  - Total Organic Halogens by EPA Method 9020B
  - Polychlorinated biphenyls (PCBs) by EPA Method 8082
  - Target Compound List (TCL) Pesticides by EPA Method 8081A
  - 8 Resource Conservation and Recovery Act Metals by EPA Methods 6010B/7470A
  - Ignitability by EPA Method 1010
- The 55-gallon drum that was unlabeled and appeared to contain plastic sheeting and water was analyzed for the following parameters:
  - TCL Volatiles by EPA Method 8260B
  - TCL Semi-volatiles by EPA Method 8270C
  - TCL Pesticides by EPA Method 8081A
  - TCL Herbicides by EPA Method 8151A
  - PCBs by EPA Method 8082
  - Target Analyte List Metals by EPA Methods 6010B/7470A
  - Corrosivity by EPA Method 9045A
  - Ignitability by EPA Method 1010/1020
- The excavated stained soil was analyzed for the following parameters:
  - Toxicity Characteristic Leaching Procedure (TCLP) Volatiles by EPA Methods 1311/8260B
  - TCLP Semi-volatiles by EPA Methods 1311/8270C
  - TCLP Pesticides by EPA Methods 1311/8081A
  - TCLP Herbicides by EPA Methods 1311/8151A
  - TCLP Metals by EPA Methods 1311/6010B
  - PCBs by EPA Method 8082
  - Corrosivity by EPA Method 9045A
  - Ignitability by EPA Method 1010/1020

Following receipt and review of the laboratory analytical reports, the waste was characterized as non-hazardous with the exception of the grease canister which was characterized as hazardous. The Waste Disposal Profiles are provided in Enclosure 3 and the waste characterization laboratory analytical reports are provided in Enclosure 5.

On April 21, 2005, six drums of non-hazardous petroleum-contaminated soil (excavated stained soil) were transported by Environmental Remediation Services for disposal at Chesser Island Landfill in Folkston, Georgia and three drums of non-hazardous oily water waste (contents of lube oil drum split into two drums because of potential leakage and water/plastic sheeting drum) were transported by Environmental Remediation Services for disposal at Industrial Water Services in Jacksonville, Florida. On April 28, 2005, one drum of hazardous waste solid (grease canister) was transported and disposed of by Perma-Fix of Florida, Inc. in Gainesville, Florida. Disposal documentation including the Transportation and Disposal Log, Hazardous and Non-hazardous Waste Disposal Profiles, Hazardous and Non-hazardous Waste Manifests, and the Certificates of Disposal are provided in Enclosures 3.

As documented in this letter report, CH2M HILL achieved the project objectives and completed the scope of work outlined in the CTO No. 0005 Work Plan Addendum No. 20 Revision 00 (CH2M HILL, 2005). Based on the drum and stained soil removal and the confirmation soil sample laboratory analytical results, no additional action is required for the voluntary cleanup effort.

If you have any questions with regard to this submittal, please contact me at (904) 777-4812 ext. 233.

Respectfully,

CH2M HILL

Michael D. Halil, P.E.
Project Manager

Enclosures (5)

ATL\WP\Navy RAC\NAS Cecil Field\CTO5Bldg238CCR\CCLR.doc

Cc: Mr. Larry Blackburn (EFA Southeast)
Mr. David Grabka (FDEP)
Mr. Steve Ball (EPA)
Mr. Doyle Brittain (EPA)
Mr. Mark Speranza (TtNUS)
Project File No. 248799

Enclosure 1

Figures

Figure 1: Site Location Map
Figure 2: Site Detail

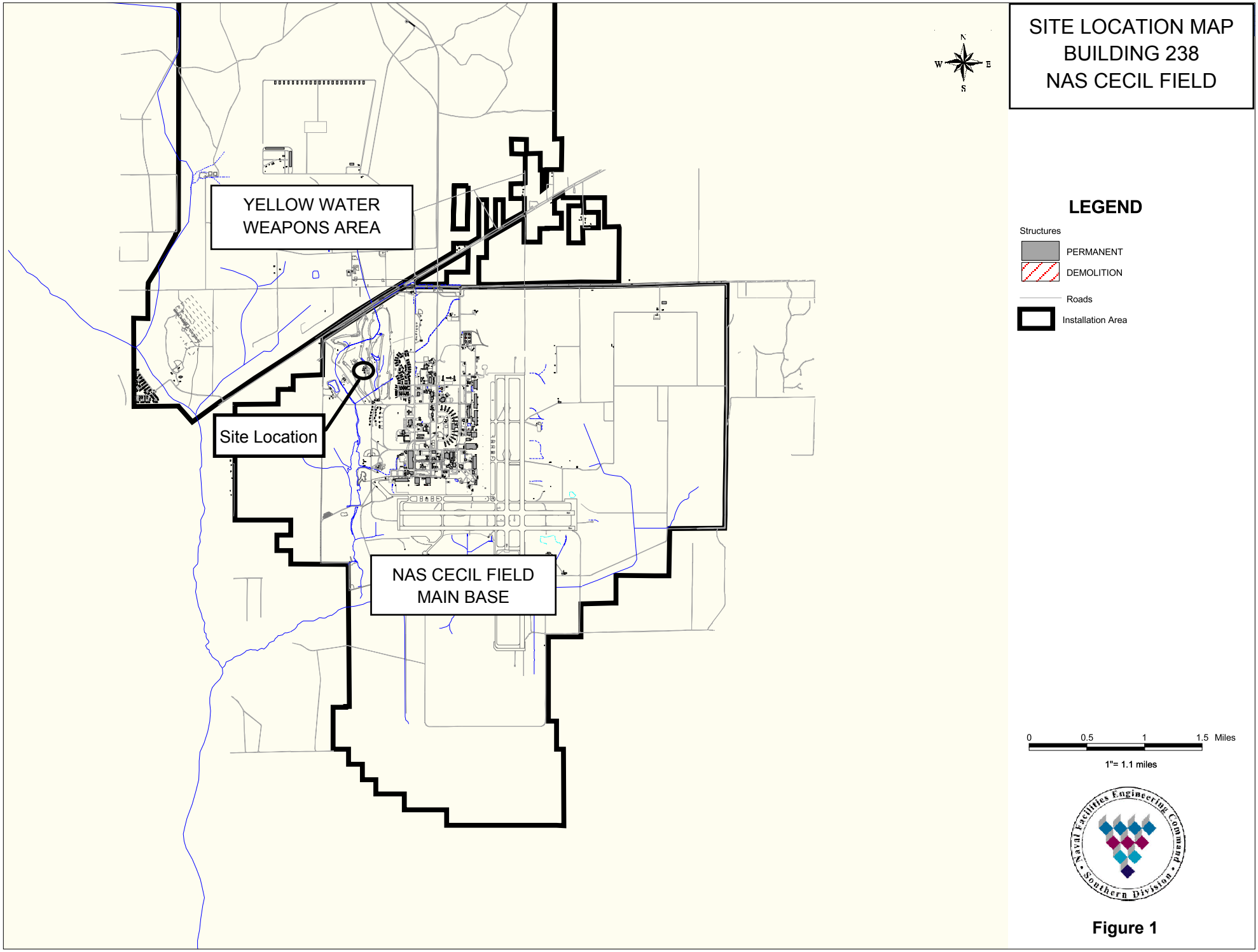
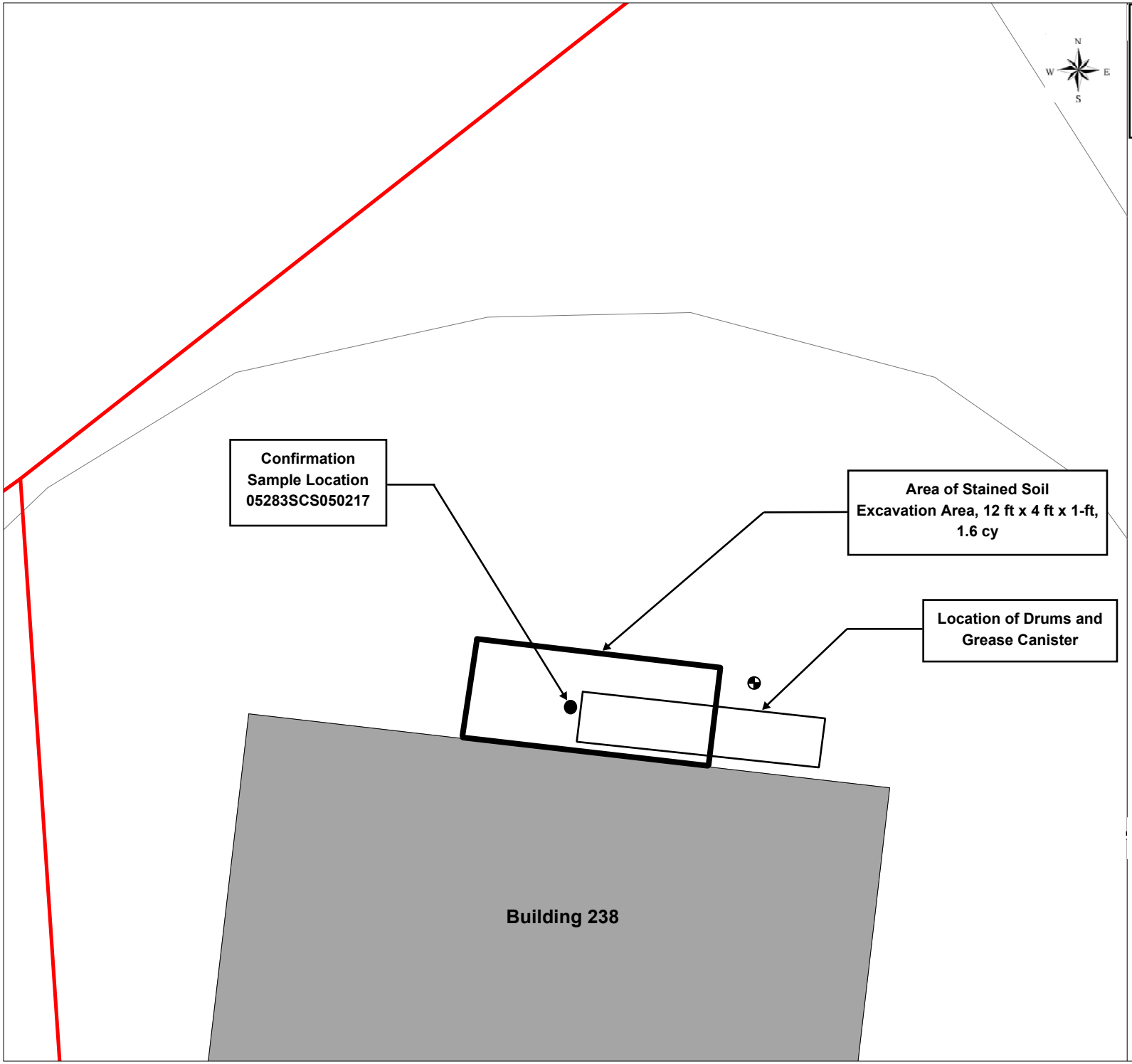


Figure 1

This graphic was generated using the TtNUS EGIS module

Plot date: Sep 15, 2004; U:\aprs\EGIS_CecilField_NAS.apr



SITE DETAIL
BUILDING 238
NAS CECIL FIELD

LEGEND

- Aviation Fuel
- Cable TV
- Communication
- Compressed Air
- Fiberoptics
- Irrigation System
- Natural Gas
- Electrical [Primary Undergroun
- Electrical [Primary]
- Sanitary Sewer
- Storm Sewer
- Water Lines
- Steam Lines

Monitoring Wells

- EXISTING
- ABANDONED
- PROPOSED TO BE ABANDONED

Naval Facilities Engineering Command • Southern Division •

Figure 2

This graphic was generated using the TtNUS EGIS module

Plot date: Feb 14, 2005; d:\egis_cecilfield_nas_r7.apr

Enclosure 2

Photographs

1. View of the four drums and lubricant/grease mechanism

2. View of the stained soil

3. Grease canister placed in 55-gallon drum

4. View of lined containment area

5. View of excavation in progress

6. View of excavation depth

7. Collection of confirmation sample

8. View of completed excavation

9. View of clean fill and lined containment area

10. View of the backfilled excavation

Enclosure 3

Waste Disposal Documentation

Transportation and Disposal Log
Hazardous Waste Profile
Non-Hazardous Waste Profile (solid)
Non-Hazardous Waste Profile (liquid)
Hazardous Waste Manifest
Non-Hazardous Waste Manifest (solid)
Non-Hazardous Waste Manifest (liquid)
Certificates of Disposal

CTO No	Project No	Project Name	Site Description	Container Type	Container Design	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Certif of Disp/ Destruc Date	Comments/ Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit			
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC1	CH2M HILL	ERS	21-Apr-05	FLD984261412	1	Chesser Island Landfill	N/R	Soil	Nonhaz	n/a	05/04/05	15007			500		Pounds	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	LOP	CH2M HILL	ERS	21-Apr-05	FLD984261412	2	IWS	N/R	Water/Oil	Nonhaz	n/a	05/11/05	15008		30			gals	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	WC2	CH2M HILL	ERS	21-Apr-05	FLD984261412	2	IWS	N/R	Water/PPE	Nonhaz	n/a	05/11/05	15008		55			gals	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	LOP	CH2M HILL	ERS	21-Apr-05	FLD984261412	2	IWS	N/R	Water/Oil	Nonhaz	n/a	05/11/05	15008		25			gals	05/19/05	Generated 2/17/05	
0005	248799	238	Golf Course Mint. Area	Drum	Drum	GCP	CH2M HILL	PermaFix	28-Apr-05	FLD980711071	3	Perma-Fix of Florida	FLD980711071	Grease	HAZ	D0005/D008/ D010/D031	04/29/05	15010				55	gals	05/19/05	Generated 2/17/05	

INDUSTRIAL WATER SERVICES

MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

Generator Name: NAS Cecil Field (US Navy)
City / State: Jacksonville, FL 32215
SIC / NAICS Code:
FL EPA ID #: FL5170022474
Name of material: Used automotive lube oil and water
Gallons: 55 Frequency: One-time
Process generating waste: Believed to be from routine vehicle maintenance at base golf course maintenance area (Building 238).

Customer Name: Environmental Remediation Services, Inc.
Customer Address: 760 Talleyrand Avenue
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)791-9833
Technical Contact: Charlie Owens or Susan Owens

Note: Generator Mailing Address is Naval Air Station (NAS) Jacksonville, Public Works Center, P.O. Box 30, Bldg. 147, Jacksonville FL 32212. This is the address that should be referenced on the manifest.

QUESTIONNAIRE

(check one) [X] Used Oil [ ] Petroleum Contact Water [ ] Virgin Product [ ] Nonhazardous Waste

1. Is the waste hazardous by:	Ignitability?	___ Yes	X No
	Corrosivity?	___ Yes	X No
	Reactivity?	___ Yes	X No
2. Does the waste contain:	Herbicides, pesticides, insecticides?	___ Yes	X No
	Dioxins?	___ Yes	X No
	Radioactive substances?	___ Yes	X No
	Domestic wastes?	___ Yes	X No
	Biohazardous materials?	___ Yes	X No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?		___ Yes	X No
If yes to the above, identify the listing.			
4. Is the waste derived from outside an underground storage tank (UST)?		___ Yes	X No
5. If waste is derived from a fuel, is the fuel leaded?		___ Yes	X No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? X Yes ___ No If yes, indicate the level present.
How was the level determined? ___ Generator Knowledge X Total laboratory analysis ___ TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC		D032	HEXACHLOROBENZENE	
D005	BARIUM	0.0046B	D033	HEXACHLOROBUTADIENE	
D018	BENZENE		D034	HEXACHLOROETHANE	
D006	CADMIUM		D008	LEAD	
D019	CARBON TETRACHLORIDE		D013	LINDANE	
D020	CHLORDANE	0.000088	D009	MERCURY	
D021	CHLOROBENZENE		D014	METHOXYCHLOR	
D022	CHLOROFORM		D035	METHYL ETHYL KETONE	
D007	CHROMIUM	0.0024B	D036	NITROBENZENE	
D024	CRESOL (M)		D037	PENTACHLOROPHENOL	
D023	CRESOL (O)		D038	PYRIDINE	
D025	CRESOL (P)		D010	SELENIUM	
D026	CRESOL		D011	SILVER	
D016	2,4-D		D039	TETRACHLOROETHYLENE	
D027	1,4-DICHLOROBENZENE		D015	TOXAPHENE	
D028	1,2-DICHLOROETHANE		D040	TRICHLOROETHYLENE	
D029	1,1-DICHLOROETHYLENE		D041	2,4,5-TRICHLOROPHENOL	
D030	2,4-DINITROTOLUENE		D042	2,4,6-TRICHLOROPHENOL	
D012	ENDRIN		D017	2,4,5-TP (SILVEX)	

D031 HEPTACHLOR _____ D043 VINYL CHLORIDE _____

CONSTITUENTS (continued)

(page 2)

Contaminant	Actual level (ppm)	Contaminant			Actual level (ppm)
ANTIMONY	_____	bis 2-ETHYL HEXYL PHTHALATE			_____
COBALT	_____	CARBAZOLE			_____
COPPER	_____	n-DECANE			_____
MOLYBDENUM	_____	2,3-DICHLOROANILINE			_____
NICKEL	_____	FLUORANTHENE			_____
TIN	_____	n-OCTADECANE			_____
TITANIUM	_____	PCB's	___ less than 2 mg/L	___ greater than 2 mg/L	_____
VANADIUM	_____	CYANIDES	___ less than 2 mg/L	___ greater than 2 mg/L	_____
ZINC	_____	SULFIDES	___ less than 2 mg/L	___ greater than 2 mg/L	_____

PHYSICAL CHARACTERISTICS

Color **Brown - black** Odor? [ ] No [X] Yes If yes, describe Petroleum (oil)

pH NA Flash Point (°F) > 212 Deg F Total Suspended Solids (%) Unknown

Total Organic Halogens X less than 1,000 mg/L ___ greater than 1,000 mg/L actual level < .040 mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: X single phase ___ multi-layered ___ bi-layered

Viscosity: ___ very thin X thin X moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample source Grab sample from drum #2 Sample date 02/17/2005

Sampler name Jeff Marks Title Site Superintendent

Sampler employer (if other than generator): CH2M Hill Constructors, Inc. (CH2M Hill, Inc.)

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature Mitch McPherson Date 4-1-05

Printed Name Mitch McPherson

Title Environmental Protection Specialist

Perma-Fix environmental services

- ☐ Michigan Facility, 18550 Allen Road, Brownstown, MI 48192 - MID096963194 - 800-282-9251- Fax 734 286-6440
- ☐ Orlando Facility, 10100 Rocket Blvd., Orlando, FL 32824 - FLD980559728 - 800-345-6393 - Fax 407-855-2812
- ☐ Valdosta Facility, 1612 James P. Rodgers Circle, Valdosta, GA 31601- GAD093380814 - (229)244-0474 - Fax (229)333-0328
- ☐ Dayton Facility, 300 South West End Ave., Dayton, OH 45427 - OHD004274031 - (800) 543-3670 - Fax 937-268-9059
- ☐ Tulsa Facility, 2700 South 25th West Avenue, Tulsa, OK 74107 - OKD000402396 - (918) 582-9595 - Fax (918) 582-6618

WASTE MATERIAL PROFILE

Please Print

A: GENERATOR: US Navy - NAS Cecil Field **EPA ID:** FL5170022474

NAS Public Works Center, P.O. Box 30, Bldg. 147, Jax — FL — 32212
SITE ADDRESS — STATE — ZIP

NAS Public Works Center, P.O. Box 30, Bldg. 147, Jax — FL — 32212
MAILING ADDRESS — STATE — ZIP

CONTACT: Mitch McPherson **PHONE:** (904) 542-5979 **FAX** (904) 542-4315

E-Mail Address:

B: BILL TO: Environmental Remediation Services

760 Talleyrand Avenue, Jacksonville — FL — 32202
MAILING ADDRESS — STATE — ZIP

CONTACT: Susan Owens **PHONE:** 904-791-9992 **FAX** 904-791-9833

E-Mail Address: S.Owens@ersfl.com

C: COMMON NAME OF THE WASTE (PLEASE PRINT) Used Grease

GENERATING PROCESS (attach flow diagram if available):

Waste grease with trace pesticide contamination from routine maintenance at base golf course area (Bldg. 238)

IS THIS WASTE:	NO	YES		NO	YES	
Spent	☐	☑	Spill	☑	☐	
Virgin	☑	☐	Labpack	☑	☐	(Attach Inventory Sheet)
Off-Spec	☑	☐	Subject to an exemption?	☑	☐	(Check Below)
WWT sludge	☑	☐	☐ Household waste?	☐	Soil from UST removal	☐ Other?

D: COMPOSITION OF WASTE: List all chemical/compounds. Provide MSDS's or analysis if available.

Chemicals/compounds	%	Chemicals/compounds	%	Chemicals/compounds	%
Used Grease	98-99				
Water	0.5-1.5				
Misc halogenated organics	< 0.5				

Total Must = 100

E:HAZARDOUS CHARACTERISTICS:

		NO	YES		
Is this waste:	Radioactive	☑	☐		
	Bio-Hazard	☑	☐		
	Polymerizable	☑	☐		
Does this waste contain:	Asbestos	☑	☐	→	☐ Friable ☐ Non Friable?
	PCB's > 50 ppm	☑	☐	→	Conc? ____ ppm
	Hexavalent Chrome	☑	☐	→	Conc? ____ ppm
	HOC's >1000ppm	☑	☐	→	Conc? 480 ppm TOX
	VOC's > 500ppmw	☑	☐	→	Conc? ____ ppmw(both 264 & 265 subpart cc)

F: PHYSICAL DATA:

		Odor	Flash Point	pH	Spec. Grav.	BTU/lb.	Chloride % by wt.	Water % by vol.
Layer	single	Strong ☐	<73 ☐	<2 ☐	<0.70 ☐	< 4999 ☐	<2 ☑	<5 ☑
Color	dk blue-gray	Mild ☑	73-99 ☐	2.1-5.0 ☐	0.71-0.81 ☐	5k-9999 ☑	2-5 ☐	5-10 ☐
Source Code	G44	None ☐	100-139 ☐	5.1-9.0 ☐	0.82-0.95 ☑	10k-15000 ☐	5-8 ☐	10-15 ☐
Form Code	W409	Describe:	140-199 ☐	9.1-12.4 ☐	0.96-1.01 ☐	>15001 ☐	8-11 ☐	15-20 ☐
		petroleum	>200 ☑	>12.5 ☐	1.02-1.09 ☐		11-14 ☐	20-25 ☐
			N/A ☐	N/A ☑	1.10-1.20 ☐		>14 ☐	>25 ☐
					>1.20 ☑			
If Known Complete:			Exact 315	Exact ____	Exact 0.903	Exact ____	Exact ____	Exact ____ %

Physical State:

Solid	100 % →	Dust ☐	Granular ☐	Chunks ☐	Monolith ☐	in Gals NA			
Sludge	____ % →	Pumpable: ☐	Yes ☑	No	Pourable: ☐	Yes ☑	No ☐	in Gals 35	
Liquid	____ % →	Free liquids: ☐	Yes ☑	No	Viscosity: ☐	Low(Water) ☐	Medium(Oil) ☑	High(Syrup)	
Gas	____ % →	Aerosol ☐	Cylinder ☐ →	Dia.: ____	Qty: ____	Valve Condition: ____			
Debris	____ % →	Describe(size & content):	Not applicable.						

Top
Next

G: WASTE CHARACTERIZATION:

	YES	NO
1 Is this a listed EPA RCRA hazardous waste **(F,K,P,U)** as defined in 40 CFR 261.30	☐	☑
2 a. Is this a liquid waste with a flash point <140F as defined in 40 CFR 261.21 (D001).	☐	☑
b. Is this an ignitable solid as defined in 40 CFR 261.21 (D001)	☐	☑
c. Is this an oxidizer as defined in 49 CFR 173.151 (D001)	☐	☑
d. Is this an ignitable compressed gas as defined in 40 CFR 261.21 (D001)	☐	☑
e. If yes to a,b, or c. Is this a High TOC waste	☐	☑
3 a. Is this a liquid waste with a pH<2 or >12.5. (D002)	☐	☑
b. is this a liquid waste that corrodes steel as defined in 40 CFR 261.22 (D002).	☐	☑
4 Is this a reactive waste as defined in 40 CFR 261.23. (D003)	☐	☑

If yes, check the subcategory: ☐ Water Reactive ☐ Air Reactive ☐ Explosive ☐ Other Reactive
☐ Reactive Cyanide: conc. _____ ppm ☐ Reactive Sulfide: conc. _____ ppm

Waste Code	Constituent	< Than	Reg Level	> Than	Conc	Waste Code	Constituent	< Than	Reg Level	> Than	Conc
D004	Arsenic	☑	5.0	☐		D024	m-Cresol	☐	200	☐	
D005	Barium	☐	100	☑	**200**	D025	p-Cresol	☐	200	☐	
D006	Cadmium	☑	1.0	☐		D026	Cresol(o,, m, p)	☐	200	☐	
D007	Chromium	☑	5.0	☐		D027	1,4 Dichlorobenzene	☐	7.5	☐	
D008	Lead	☐	5.0	☑	**23.4**	D028	1,2-Dichloroethane	☐	0.5	☐	
D009	Mercury	☑	0.2	☐		D029	1,1-Dichloroethylene	☐	0.7	☐	
D010	Selenium	☐	1.0	☑		D030	2,4-Dinitrotoluene	☐	0.13	☐	
D011	Silver	☑	5.0	☐	**1**	D031	Heptachlor	☐	0.008	☑	**0.438**
D012	Endrin	☐	0.02	☐		D032	Hexachlorobenzene	☐	0.13	☐	
D013	Lindane	☐	0.4	☐		D033	Hexechlorobutadiene	☐	0.5	☐	
D014	Methoxychlor	☐	10	☐		D034	Hexachloroethane	☐	3.0	☐	
D015	Toxaphene	☐	0.5	☐		D035	Mehtyl Ethyl Ketone	☐	200	☐	
D016	2,4 - D	☐	10	☐		D036	Nitrobenzene	☐	2.0	☐	
D017	2,4,5-TP(Silvex)	☐	1	☐		D037	Pentachlorophenol	☐	100	☐	
D018	Benzene	☐	0.5	☐		D038	Pyridine	☐	5.0	☐	
D019	Carbon Tetrachloride	☐	0.5	☐		D039	Tetrachloroethylene	☐	0.7	☐	
D020	Chlordane	☐	0.03	☐		D040	Trichloroethylene	☐	0.5	☐	
D021	Chlorobenzene	☐	100	☐		D041	2,4,5-Trichlorophenol	☐	400	☐	
D022	Chloroform	☐	6.0	☐		D042	2,4,6-Trichlorophenol	☐	2.0	☐	
D023	o-Cresol	☐	200	☐		D043	Vinyl Chloride	☐	0.2	☐	

Based on: Total Analysis ☑ TCLP Analysis ☐ Generator Knowledge ☐

	YES	NO
5 Is this a EPA Toxic Waste (D004-D043)* as defined in 40 CFR 261.24?	☑	☐
If D009: Is the total Mercury concentration above 260 ppm?	☐	☐
*** If this is a D001, D002, D003(selected) or D004-D043 does it contain any of the Underlying Hazardous Constituents (UHC) above Universal Treatment Standards(UTS)?**	☑	☐
If Yes, include a UTS/UHC form with the profile		
6 Is this waste a Dioxin Or Furan per 40 CFR 261.31?	☐	☑
7 a. Is this a Non-Hazardous Waste?	☐	☑
FOR WASTE DISPOSAL AT PERMA-FIX OF MICHIGAN ONLY:		
b. Is this a hazardous Waste by state regulation only	☐	☑
c. Is this a Michigan Act 451 listed hazardous waste?	☐	☐

If you answered Yes to any question in Section G, enter the appropriate waste codes(s) on the lines below.

Waste Codes: **D031** _____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Please list any Toxic Release Inventory Constituents per EPCRA Section 313 not identified above.

TRI Attachment:

Top _____

Next _____

H. BENZENE NESHAP 40 CFR 61, SUBPART FF (Hazardous waste with Benzene Only)

If question 1,2 or 3 is No, proceed to section I.

	YES	NO
1 Is this waste stream generated at a facility with a SIC code listed under NESHAP, or a TSDF that treats NESHAP waste? SIC Code _____ listed codes: (2800-2899, 2911, 3312, 4953, 9511)	☐	☑
2 Does the waste contain > 10% water	☐	☑
3 Is the total Annual Benzene quantity from the facility waste greater than 10Mg/Yr (22,046 lbs/yr). If Question 1,2, or 3 is No, proceed to Section I	☐	☑

4 What is the total Benzene concentration in Your Waste? _____ % or _____ ppmw.
(Do not use TCLP results. Acceptable laboratory methods include 8020, 8240, 8260, 602, and 624)

5 What is the TAB quantity for the generator facility? _____ Mg/Year

I. PACKAGING/ QUANTITY

1 Non-Bulk	☐ 1 gal	☐ 5 gal	☐ 15 gal	☐ 30 gal	☑ 55 gal.	☐ 85 gal	☑ Other 5 gallon canister in		
Cubic Yard	☐ Boxes	☐ Bags	☐ Totes	☐ Pallets	☐ Other 55 gallon drum				
Quantity	1 Per:	☐ Month	☐ Quarter	☐ Year	☑ Once				
2 Bulk:	☐ Tanker	☐ Vac Truck	☐ Rolloff	☐ Dump Trailer	☐ Closed Top	☐ Open Top			
		☐ Gallons	☐ Pounds	☐ Yards	☐ Tons				
Quantity:	_____ Lbs.	Per:	☐ Month	☐ Quarter	☐ Year	☐ Once			

J. DOT SHIPPING INFORMATION:

Enter proper DOT shipping name from 49 CFR 172.101 table:

Hazardous waste, solid, n.o.s. (D031), 9, NA3077, PG III

List 2 major components: **Used Grease; miscellaneous halogenated organics**

Hazard Class **9** UN/NA code **3077** PG **III** RQ: Y N CLIN:_____ US Gov. CLIN # When applicable

K. ATTACHMENTS: (Check all that apply and include with profile)

☑ UTS/UHC Form	☐ Process Flow Diagram	☐ Generator authorization
☑ Analysis	☐ PCB source statement	☐ Labpack inventory sheet
☐ Additional Description	☑ Material Safety Data Sheet	☐ Land Disposal Notification

L. CERTIFICATION:

I hereby certify that all the information submitted in this and all attached documents is complete and accurate. All known and suspected hazards have been disclosed. By signing below, I give Perma-Fix Environmental Services, Inc., and all of its subsidiaries, permission to make minor changes to this profile prior to its acceptance should they find an error or omission.

Printed Name: Mitchell B. McPherson Signature: [signature] Date: 4-1-05

****Signatures other than the generator are required to submit an approved authorization letter from the generator to certify this profile**

INTERNAL USE ONLY: Review 1 _____ 2 _____ 3 _____

Profile I.D. No. _____ APPROVED ☐ REJECTED ☐ Form Code W _____

Waste Codes _____

DOT _____

Destination/Consolidation Code _____ Price & Initial _____

Product Code: _____

Out Bound Approval: _____ Facility: _____

Notes: _____

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INDUSTRIAL WATER SERVICES

MATERIAL PROFILE FORM

JACKSONVILLE (904) 354 - 0372 FAX: (904) 353 - 4033
MOBILE (251) 694 - 7500 FAX: (251) 694 - 7508
CHICAGO (773) 646 - 9700 FAX: (773) 646 - 9730

Generator Name: NAS Cecil Field (US Navy)
City / State: Jacksonville, FL 32215
SIC / NAICS Code:
IL EPA ID #: FL5170022474
Name of material: Water and plastic sheeting (visqueen)
Gallons: 55 Frequency: One-time
Process generating waste: Possible Investigation Derived Waste (IDW) from monitoring well installations at Building 283.

Customer Name: Environmental Remediation Services, Inc.
Customer Address: 760 Talleyrand Avenue
City / State / Zip: Jacksonville, FL 32202
Phone #: (904)791-9992
Fax #: (904)791-9833
Technical Contact: Charlie Owens

NOTE: Generator Mailing Address is Naval Air Station (NAS) Jacksonville, Public Works Center, P.O. Box 30, Bldg. 147, Jacksonville FL 32212. This is the address that should be referenced on the manifest.

QUESTIONNAIRE

(check one) ☐ Used Oil ☒ Petroleum Contact Water ☐ Virgin Product ☒ Nonhazardous Waste

1. Is the waste hazardous by:	Ignitability?	___ Yes	X No
	Corrosivity?	___ Yes	X No
	Reactivity?	___ Yes	X No
2. Does the waste contain:	Herbicides, pesticides, insecticides?	___ Yes	X No
	Dioxins?	___ Yes	X No
	Radioactive substances?	___ Yes	X No
	Domestic wastes?	___ Yes	X No
	Biohazardous materials?	___ Yes	X No
3. Is this a hazardous waste (F, K, U, or P listed) as defined by 40 CFR 261 Subpart D?		___ Yes	X No
If yes to the above, identify the listing.			
4. Is the waste derived from outside an underground storage tank (UST)?		___ Yes	X No
5. If waste is derived from a fuel, is the fuel leaded?		___ Yes	X No

CONSTITUENTS

Does the waste contain any constituents listed in the table below? X Yes ___ No If yes, indicate the level present.
How was the level determined? ___ Generator Knowledge X Total laboratory analysis X TCLP Laboratory analysis

EPA #	Contaminant	Actual level (ppm)	EPA #	Contaminant	Actual level (ppm)
D004	ARSENIC		D032	HEXACHLOROBENZENE	
D005	BARIUM		D033	HEXACHLOROBUTADIENE	
D018	BENZENE	0.317	D034	HEXACHLOROETHANE	
D006	CADMIUM		D008	LEAD	
D019	CARBON TETRACHLORIDE		D013	LINDANE	
D020	CHLORDANE		D009	MERCURY	
D021	CHLOROBENZENE		D014	METHOXYCHLOR	
D022	CHLOROFORM		D035	METHYL ETHYL KETONE	
D007	CHROMIUM		D036	NITROBENZENE	
D024	CRESOL (M)		D037	PENTACHLOROPHENOL	
D023	CRESOL (O)		D038	PYRIDINE	
D025	CRESOL (P)		D010	SELENIUM	
D026	CRESOL		D011	SILVER	
D016	2,4-D		D039	TETRACHLOROETHYLENE	
D027	1,4-DICHLOROBENZENE		D015	TOXAPHENE	
D028	1,2-DICHLOROETHANE		D040	TRICHLOROETHYLENE	
D029	1,1-DICHLOROETHYLENE		D041	2,4,5-TRICHLOROPHENOL	
D030	2,4-DINITROTOLUENE		D042	2,4,6-TRICHLOROPHENOL	
D012	ENDRIN		D017	2,4,5-TP (SILVEX)	

D031 HEPTACHLOR _____ D043 VINYL CHLORIDE _____

CONSTITUENTS (continued)

Contaminant	Actual level (ppm)	Contaminant			Actual level (ppm)
ANTIMONY	_____	bis 2-ETHYL HEXYL PHTHALATE			_____
COBALT	_____	CARBAZOLE			_____
COPPER	_____	n-DECANE			_____
MOLYBDENUM	_____	2,3-DICHLOROANILINE			_____
NICKEL	_____	FLUORANTHENE			_____
TIN	_____	n-OCTADECANE			_____
TITANIUM	_____	PCB's	___ less than 2 mg/L	___ greater than 2 mg/L	_____
VANADIUM	_____	CYANIDES	___ less than 2 mg/L	___ greater than 2 mg/L	_____
ZINC	_____	SULFIDES	___ less than 2 mg/L	___ greater than 2 mg/L	_____

PHYSICAL CHARACTERISTICS

Color Clear (water white) Odor? [X] No [ ] Yes If yes, describe _____

pH NA Flash Point (°F) NA (aqueous) Total Suspended Solids (%) Unknown

Total Organic Halogens X less than 1,000 mg/L ___ greater than 1,000 mg/L actual level _____ mg/L

Physical state: ___ solid X liquid ___ semi-solid ___ powder

Layers: X single phase ___ multi-layered ___ bi-layered

Viscosity: X very thin ___ thin ___ moderate ___ thick ___ does not pour

REPRESENTATIVE SAMPLE CERTIFICATION

Sample source Single grab from drum # 1 Sample date 02/17/2005

Sampler name Jeff Marks Title Site Superintendent

Sampler employer (if other than generator): CH2M Hill, Inc. (CH2M Hill Constructors, Inc.)

The sampler's signature certifies that any sample submitted is representative of the material described above pursuant to 40 CFR 261.20 (c) or equivalent rules.

Sampler signature _____

GENERATOR CERTIFICATION

By signing this profile, you certify that:

1. You are the generator or the duly authorized representative of the generator.
2. This waste is not a hazardous waste as defined by USEPA Federal Regulation, unless noted above.
3. This waste does not contain regulated materials or regulated concentrations of PCB's (polychlorinated biphenyls).
4. This sheet contains true and accurate descriptions of the material and all relevant information in your possession regarding known or suspected hazards have been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20 (c) or equivalent rules.
6. If any changes occur in the character of the material, you will notify the Contractor prior to the Contractor removing the material.
7. If the material is PCW, there are no hazardous constituents above those found in the source of the PCW.

Generator Signature [signature] Date 4-1-05

Printed Name Mitch McPherson

Title Environmental Protection Specialist

Service Agreement on File? ☒ YES ☐ NO

☐ **Hazardous** ☒ **Non-Hazardous** ☐ **TSCA**

Profile Number:

Renewal Date

A. Waste Generator Information

1.	Generator Name:	Naval Air Station (NAS) Jacksonville	2.	SIC Code	
3.	Facility Street Address:	Public Works Center, P.O.B. 30, Bldg. 147	4.	Phone	(904) 777-8260
5.	Facility City:	Jacksonville	6.	State/Province:	FL
7.	Zip/Postal Code:	32212	8.	Generator USEPA/FED ID #:	FL5170022474
9.	County:	Duval	10.	State/Province ID#:	NA
11	Customer Name:	Environmental Remediation Services, Inc.	12.	Customer Phone::	(904) 791-9992
13.	Customer Contact:	Charlie or Susan Owens	14.	Customer Fax:	(904) 791-9833
15.	Billing Address	760 Talleyrand Avenue; Jacksonville, FL 32202			☐ Same as above

B. Waste Stream Information

1. DESCRIPTION

a. Name of Waste: Petroleum-contaminated soil

b. Process Generating Waste: Clean-up of drum storage area at Building 238 (Golf Course Maintenance Facility), NAS Cecil Field

NOTE: Address above should be referenced on all manifests/shipping papers. Physical location of waste is Bldg. 238, NAS Cecil Field, Jacksonville FL 32215.

c. Color	d. Strong odor (describe)	e. Physical state @ 70°F	f. Layers	g. Free liquid range
Brown/dk. brown	Slight petroleum	☒ Solid ☐ Liquid ☐ Gas ☐ Sludge ☐ Other	☒ Single Layer ☐ Multi-Layer	0 to 1 %
				h. pH: Range 6 to 9

i. Liquid Flash Point: ☐ <73°F ☐ 73-99°F ☐ 100-139°F ☐ 140-199°F ☒ ≥ 200°F ☒ Not Applicable

j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):.

Constituents	Concentration Range	Constituents	Concentration Range
Soil	95-98%		
Water	1-5%		
PPE, plastic, debris	1-2%		
Petroleum hydrocarbons	Less than 1%		

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. ☐ Oxidizer ☐ Pyrophoric ☐ Explosive ☐ Radioactive ☐ Carcinogen ☐ Infectious ☐ Shock Sensitive ☐ Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA Notification? (list in Section B.1.j)..... ☐ YES ☒ NO

m. Does the waste represented by this profile contain dioxins? (list in B.1.j)..... ☐ YES ☒ NO

n. Does the waste represented by this profile contain asbestos?..... ☐ YES ☒ NO

If yes..... ☐ friable ☐ non-friable

o. Does the waste represented by this profile contain benzene..... ☐ YES ☒ NO

If yes, concentration _____ Ppm

Is the waste subject to benzene waste operations NESHAP?..... ☐ YES ☒ NO

p. Is the waste subject to RCRA Subpart CC controls..... ☐ YES ☒ NO

If no, does the waste meet the organic LDR Exemption:..... ☒ YES ☐ NO

If no, does the waste contain <500 ppmw volatile organic (VOC's)?..... ☒ YES ☐ NO

Volatile organic concentration _____ ppmw

q. Does the waste contain any Class I or Class II ozone-depleting substance?..... ☐ YES ☒ NO

r. Does the waste contain debris? (list in Section B.1.j)..... ☐ YES ☒ NO

s. Is the waste subject to controls as a Group 1 wastewater or residual under the HON?..... ☐ YES ☒ NO

If yes, is it a Table 8 _____ or Table 9 _____ Compound?

2. Quantity of Waste

Estimated Annual Volume Eight 55-gallon ☐ Tons ☐ Yards ☒ Drums ☐ Other (specify) _____

3. Shipping Information

a. Packaging:

☐ Bulk Solid; Type/Size: _____ ☐ Bulk Liquid, Type/Size _____

☒ Drum; Type/Size: Metal open top 55-gallon ☐ Other: _____

b. Shipping Frequency: Units 8 drums Per: ☐ Month ☐ Quarter ☐ Year ☒ One Time ☐ Other _____

c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (If no, skip d, e and f)..... ☐ YES ☒ NO

d. Reportable Quantity (lbs.; kgs.): _____ e. Hazard Class/ID#: _____

f. USDOT Shipping Name: Non-hazardous substance, liquid, non-RCRA regulated (investigation-derived waste water)

g. Personal Protective Equipment Requirements: Standard Level D PPE (steel-toe work boots, gloves, long pants, safety glasses)

h. Transporter/Transfer Station:

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2..... ☐ YES ☒ NO
   a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U) _____
   b. If a characteristic hazardous waste, do underlying hazardous constituents) (UHCs) apply? (if yes, list in Section.B.1.j)..... ☐ YES ☐ NO
   c. Does this waste contain debris? (if yes, list size and type in Chemical Composition - B.1.)..... ☐ YES ☐ NO

2. Is the waste from a soil remediation project?..... ☒ YES ☐ NO
   a. Will the Alternative Soil treatment Standards to be invoked?..... ☐ YES ☒ NO
   b. Do underlying hazardous constituents apply? (If yes, list in Section B.1.j)..... ☐ YES ☒ NO

3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up?..... ☐ YES ☒ NO
   If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation.

4. Does the waste represented by this waste profile sheet contain radioactive material?..... ☐ YES ☒ NO
   a. Is disposal regulated by the Nuclear Regulatory Commission?..... ☐ YES ☒ NO
   b. If NORM, identify isotopes and concentration, pCi/g _____ ☐ YES ☒ NO

5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (if yes, list in Chemical Composition - B.1.j)..... ☐ YES ☒ NO
   a. Were the PCBs imported into the U.S.?..... ☐ YES ☐ NO
   b. Are PCBs regulated under the "Self-Implementing Remediation (Mega) Rule?"..... ☐ YES ☐ NO

6. Do the waste profile sheet and all the attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?..... ☒ YES ☐ NO

7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?..... ☒ YES NO

☒ Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary permits and licenses for the waste that has been characterized and identified by this approved profile.

Certification Signature: _____ Title: **Env. Protection Specialist**

Name (Type or Print) **Mitch McPherson** Company Name **US Navy - NAS Jacksonville** Date: 4-1-05

☒ Check if additional information is attached. Indicate the number of attached pages. _____

D. WMI Management's Decision

FOR WMI USE ONLY

1. Management Method ☒ Landfill ☐ Non-hazardous Solidification ☐ Bioremediation ☐ Incineration ☐ Hazardous Stabilization ☐ Other (Specify) _____
2. Proposed Ultimate Management Facility: Chesser Island Road Landfill, Highway 121 South, Folkston GA 31537
3. Precautions, Special Handling Procedures, or Limitation on Approval _____
4. Waste Form: _____ 5. Source _____ 6. System Type _____

Special Waste Decision..... ☐ Approved ☐ Disapproved

Salesperson's Signature: _____ Date: _____

Division Approval Signature (Optional): _____ Date: _____

Special Waste Approvals Person Signature Date: _____

ENVIRONMENTAL REMEDIATION SERVICES, INC.

May 19, 2005
File: 5106

Ms. Lisa Schwan
CH2MHill Constructor's Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346

Re: Non Hazardous Waste Manifest # 05339, 05340

Dear Ms. Schwan,

Please see attached Non-Hazardous Waste manifest **#05339**, documenting the disposal of Petroleum Contact Soil to Chesser Island Landfill on May 04, 2005 and Manifest #05340 documenting the disposal of Non-Hazardous Oily Waste Water to Industrial Water Services on May 11, 2005 .

ERS appreciates the opportunity to provide CH2MHill Constructor's Inc. with quality environmental services. If you have any questions or comments please contact me at (904) 791-9992.

Sincerely,

John Anderson
Operations Manager

Attachments: Manifest # 05339 & 05340

760 Talleyrand Avenue
Jacksonville, Florida 32202-1031

Phone (904) 791-9992
Fax (904) 791-9833

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

15007

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NOT. REQ
Manifest Document No.: 05339
2. Page 1 of

3. Generator's Name and Mailing Address
Naval Air Station Jacksonville Cecil Field
Public Works Center Bld. 147 Jax, Fl 32212
4. Generator's Phone ( )

Environmental Remediation
760 Talleyrand Avenue
Jacksonville, Fl 32202

5. Transporter 1 Company Name: Environmental Remediation
6. US EPA ID Number: F.L.D.9.8.4.2.0.1.4.1.2
A. Transporter's Phone: 904-791-9992

7. Transporter 2 Company Name: Advance Disposal.
8. US EPA ID Number: not Required
B. Transporter's Phone: 783-7040

9. Designated Facility Name and Site Address
Chesser Island Landfill
Hwy 121 South
Folkston, Georgia 31537
10. US EPA ID Number: Not Required
C. Facility's Phone: 912/496-7918

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Petroleum Contaminated Soil	008	DM	04000	P
b. N/A				
c. N/A				
d. N/A				

D. Additional Descriptions for Materials Listed Above
N/A

E. Handling Codes for Wastes Listed Above
N/A

15. Special Handling Instructions and Additional Information

ERS Manifest Number: 05339
ERS Job Number: 5106
WM approval #: VB 2259
In Case of Emergencies call ERS at 904-791-9992.
510601

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Mitchell B. McPherson
Signature: [signature]
Month Day Year: 04 21 05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Curtis
Signature: [signature]
Month Day Year: 04 21 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Toney Barnes
Signature: [signature]
Month Day Year: 05 04 05

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: P. Barnard
Signature: [signature]
Month Day Year: 05 04 05

GENERATOR
TRANSPORTER
FACILITY

Copy for file

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M5

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

15008

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. .NOT. REQ. . . . .
Manifest Document No. 05340
2. Page 1 of

GENERATOR

3. Generator's Name and Mailing Address
Naval Air Station Jacksonville (NAS) Cecil Field
Public Works Center Bldg. 147 Jax, Fl 32212
4. Generator's Phone ( )

5. Transporter 1 Company Name
Environmental Remediation Svc.
6. US EPA ID Number
F.L.D.9.8.4.2.6.1.4.1.2
A. Transporter's Phone
904/791-9992

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Industrial Water Services
1640 Talleyrand Ave.
Jacksonville, Florida 32206
10. US EPA ID Number
F.L.D.9.8.1.9.2.8.4.8.4
C. Facility's Phone
904/354-0372

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Oily Waste Water	003	D.M	00240	G
b. N/A				
c. N/A				
d. N/A				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

ERS Manifest Number: 05340
ERS Job Number: 5106
IWS Approval Number: 024709

510601

For Emergencies Call: Environmental Remediation Services 904-791-9992

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: X Mitchell B McPherson
Signature:
Month Day Year: 04 21 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jim Curtis
Signature:
Month Day Year: 04 21 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name: Al Bott
Signature: Copy for Site
Month Day Year: 5 11 05

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL - RETURN TO GENERATOR

12-BLC-M5

ENVIRONMENTAL REMEDIATION SERVICES, INC.

May 19, 2005
File #: 5106

Ms. Lisa Schwan
CH2MHILL Constructor's Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 0346

Re: Certificate of Compliance/Disposal & Original Manifest #15010

Dear Ms. Schwan,

Please find attached Original Certificate of Compliance/Disposal and Original Manifest #15010 documenting the disposal of Hazardous Waste Solid, N.O.S. (Heptachlor, Barium) transported to Perma-Fix Environmental Services on April 29, 2005.

ERS appreciates the opportunity to provide CH2MHill Constructor's Inc. with quality environmental services. If you have any questions regarding the waste disposal please contact me at 904-791-9992.

Sincerely,

John Anderson
Operations Manager

Attached: Original Certificate of Disposal & Original Manifest #15010

760 Talleyrand Avenue
Jacksonville, Florida 32202-1031

Phone (904) 791-9992
Fax (904) 791-9833

09-May-05

US NAVY
ENV REMEDIATION SERVICES
ENVIRONMENTAL SAFETY
760 TALEYRAND AVE
JACKSONVILLE FL 32203

REF: MANIFEST NUMBER: 15010
SHIPMENT NUMBER: PF-141H
SHIPMENT DATE: 04/29/05

CERTIFICATE OF RECYCLING/MATERIALS RE-USE

ON THE ABOVE DATE, YOUR WASTE MATERIAL WAS RECEIVED AT OUR FACILITY FOR THE PURPOSE OF RECYCLING AND OR FUEL BLENDING.

THIS MATERIAL WILL BE DISPOSED OF IN FULL BY RECLAMATION OR REUSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

THIS ENTIRE PROCESS IS GENERALLY COMPLETED WITHIN A 30-DAY PERIOD FROM THE DATE OF THE SHIPMENT.

1940 N.W. 67th Place • Gainesville, Florida 32653 • Telephone (352) 373-6066 • Fax (352) 372-8963

E-Mail: floridasales@perma-fix.com • Website: www.perma-fix.com/florida

EPA-PERMITTED TSD FACILITY • HAZARDOUS WASTE • NON-HAZARDOUS WASTE • MIXED WASTE

510601
copy for file

24-HOUR
Emergency Contact Telephone Number
(SEE BOX 15)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039, Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: F.L.5.1.7.0.0.2.2.4.7.4
Manifest Document No.: 15010
2. Page 1 of 1

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

3. Generator's Name and Mailing Address
US Navy - Cecil Field - Susan Owens (ERS)
NAS Public Works Ctr, Bldg 147
Jacksonville, FL 32212
4. Generator's Phone (904) 545-9992

A. State Manifest Document Number: 50551
B. State Generator's ID: FL5170022474

5. Transporter 1 Company Name: Perma-Fix of Florida Inc
6. US EPA ID Number: F.L.D.9.8.0.7.1.1.0.7.1
C. State Transporter's ID: FLD980711071
D. Transporter's Phone: (352)373-6066

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

9. Designated Facility Name and Site Address
Perma-Fix of Florida Inc
1940 NW 67th Pl
Gainesville, FL 32653
10. US EPA ID Number: F.L.D.9.8.0.7.1.1.0.7.1
G. State Facility's ID: FLD980711071
H. Facility's Phone: (352)373-6066

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	Hazardous Waste Solid, N.O.S. (Heptachlor, Barium) 9, NA3077, PGIII (D005/D008/D010/D031)	X	001	D.F	000556		D005/D008/ D010/D031
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a) PF #41149 - ERG #171 (Grease with Trace Pesticide)
D7.6 W409 H061

K. Handling Codes for Wastes Listed Above
S01/H141/H061

15. Special Handling Instructions and Additional Information
Mail Invoice/Manifest to: Environmental Remediation Services
760 Talleyrand Ave, Jacksonville FL 32203
Attn: Susan Owens - PO #5989

INFOTRAC AT 1-800-535-5053
Perma-Fix of Florida must be named as Registrant

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Mitchell B McPherson
Signature: [signature]
Month Day Year: 04 28 05

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gilbert H Allen
Signature: [signature]
Month Day Year: 04 28 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
510601

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

Printed/Typed Name: Steve Williams
Signature: [signature]
Month Day Year: 04 29 05

EPA Form 8700-22 (Rev. 9-96) Previous edition obsolete.

Copy for file
ORIGINAL - RETURN TO GENERATOR

7-BLC-M6 (Rev. 10/96)

Enclosure 4

Missing Drum Documentation

Pump Truck Service Call Ticket
Waste Manifest for Five Empty Metal Drums

Safety-Kleen Systems Inc.
161 Industrial Loop S.
Orange Park, FL 32073
(904) 264-2607
(904) 278-8553 fax

Date: 2/10/05
To: Jeff
Company: CH2M - Hill
Phone #:
Fax #: 352-381-3918
Number of pages including coversheet: 3
From: Lisa Holt

Message

If all pages were not received please call.

BILL OF LADING/MANIFEST

1. Shipper's US EPA ID No. (If Applicable): CESOC
Document No.: 56661
2. Page 1 of 1

3. Shipper's Name and Mailing Address: FIDDLER GREEN GOLF CTR.
CECIL FIELD
13715 LAKE NEWMAN ST.
JACKSONVILLE FL 32215

4. Shipper's Phone: 904 778-5800

5. Transporter 1 Company Name: SAFETY-KLEEN SYS, INC
6. US EPA ID Number: TXR000050930
A. Transporter's Phone: 800 669-5740

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address: 000658
SAFETY-KLEEN SYSTEMS, INC.
3700 LAGRANGE ROAD
SMITHFIELD KY 40068
10. US EPA ID Number: KYD053348108
C. Facility's Phone: 502 845-2453

	11. Shipping Name and Description	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol
a.	RESIDUE: LAST CONTAINED		5	DM	125	P
b.						
c.						
d.						

15. Special Handling Instruction and Additional Information

MFST R/T#105709139 0002-3647-11
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.

SKDOT# A: 1052 B: C: D:

16a. US DOT HAZARDOUS MATERIALS SHIPPER'S CERTIFICATION: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Printed/Typed Name | Signature required here if US DOT regulated | Month | Day | Year

16b. NON-REGULATED SHIPPER'S CERTIFICATION: I certify the materials described above on this form are not subject to federal regulations for Transportation or Disposal.

Printed/Typed Name: Mike Johnson | Sign here if material is not DOT regulated | Month 11 | Day 19 | Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Johns | Signature | Month 11 | Day 19 | Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

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

19. Discrepancy Indication Space: line 18 Generator Signed wrong area 11/19/05 JJ

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

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

IN EVENT OF EMERGENCY CALL

5400 Legacy Drive, Cluster II, B3 800-669-5740
Plano, Texas 75024 www.safety-kleen.com

DUNS NO. 05-397-6551 FED. ID NO. 75-2178928

BRANCH USA

FOR SERVICE CALL	BRANCH MANAGER	DOC. EXP.	SCHEDULED SERVICE WEEK	SCHEDULED TERRITORY	REFERENCE NUMBER
904-264-2607	KEVIN HAMILTON		05		M002566478

CREDIT CODE	PREVIOUS BALANCE	BAL. OVER 60 DAYS

BUSINESS TYPE	CHAIN	CUTER COUNTY	SVC. PIC	PROD. P/C

LOCATION	TAX EXEMPTION NUMBER
307901	

GENERATOR

CUSTOMER NO. 2 3 6 4 7 1 1

Fiddlers Green Golf Course
17215 Lake Newman St.
Jacksonville, FL 32215

BILL TO

SERVICE DATE	SALES REP NO.	CUSTOMER P.O. NUMBER	CUSTOMER PHONE #	TAX CODE	HANDLING CODE	ASSOC. CODE	SERVICE TAX	C.O.M.S. TAX	PRODUCT TAX
1-18-05	4897				OR				

DEPT	SERVICE/ PRODUCT	SERIAL NUMBER	UNIT PRICE	QUANTITY	CHARGE	SALES TAX	TOTAL CHARGE	CHLORINE TEST RESULTS: HALOGEN TESTER PASS	FAIL	CHLOR-D-TECT RESULTS (PPM)	TESTER INITIALS	SK DOT NUMBER	CC	SERVICE TERM	CHANGE SERVICE TERM (WEEKS) (INITIAL)	CHANGE SERV. DATE (MM DD)	PROMO NO.	RELEASE NO.
	6661			120				☑	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									
								☐	☐									

TOTAL-SERVICE/PRODUCTS

TANK CAPACITY

TRANSPORTER — DATE 1/18/05
Don Waters — PRINT NAME
X SIGNATURE

FACILITY — DATE 1/18/05
Andy Gonzalez — PRINT NAME
X SIGNATURE

GENERATOR STATUS: CHECK ONLY ONE BOX BELOW

GENERATOR HAZARDOUS WASTE CLASSIFICATION *	VEHICLE FLUIDS ONLY	OTHER NON-VEHICLE FLUIDS
CESQG	☑ 1	☐ 3
SQG/LQG	☐ 2	☐ 4

1 NO PREQUAL REQUIRED, NO HALOGEN TEST
2 NO PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP
3 PREQUAL REQUIRED, NO HALOGEN TEST
4 PREQUAL REQUIRED, HALOGEN TEST AT PICK-UP
* REFER TO REVERSE SIDE FOR DEFINITIONS

MANIFEST NO.

USEPA TRANSPORTER ID NO. TXR000050930

GENERATOR USEPA ID NO.

GENERATOR STATE ID NO.

11. US DOT DESCRIPTION (INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID.)	12. CONTAINERS NO.	TYPE	13. TOTAL QUANTITY	14. UNIT WT/VOL	SK DOT NUMBER
USED OIL (NOT USDOT HAZARDOUS MATERIAL)	01	TT	120	G	850
USED OIL AND WATER MIXTURE (NOT USDOT HAZARDOUS MATERIAL)			Ø		927
USED ANTIFREEZE (NOT USEPA OR USDOT REGULATED)			Ø		1176

INTERMEDIATE FACILITY NAME AND ADDRESS SAFETY-KLEEN SYSTEMS, INC.
161 Industrial Loop S. Orange Park, FL 32073

USA EPA ID NO. FLD 980771214

STATE ID NO.

PAYMENT RECEIVED SECTION

CASH ☐ TOTAL RECEIVED APPLY PAYMENT TO:
CHECK NUMBER ☐ TODAY'S SERVICE/SALE ☐ PREVIOUS BALANCE AS FOLLOWS

INVOICE #	AMOUNT $	INVOICE #	AMOUNT $

PREVIOUS CREDIT CARD NO.

CREDIT CARD NO. AMEX VISA MC EXP. DATE

CUSTOMER REFERENCE

MANIFEST CODE SEQ # 46 D

IN THE EVENT OF AN EMERGENCY CALL

CHARGE MY ACCOUNT FOR THIS TRANSACTION UNLESS OTHERWISE INDICATED IN THE PAYMENT RECEIVED SECTION.

Customer certifies that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation.

ADDITIONAL TERMS AND CONDITIONS ON THE REVERSE SIDE OF THIS DOCUMENT ARE INCORPORATED HEREWITH MADE A PART HEREOF.

Print Name

X
GENERATOR/SHIPPER DESIGNATED REPRESENTATIVE SIGNATURE

TOTAL DUE

DO NOT WRITE IN THE AREA BELOW

M002566478

004841

02/10/2005 00:33 904-278-8553 SAFETY KLEEN PAGE 03/03

Enclosure 5

Laboratory Analytical Reports

Confirmation Sample Analytical Result Summary Table
Confirmation Sample Laboratory Analytical Report
Fill Material Certification Laboratory Analytical Report
Waste Characterization Laboratory Analytical Reports

NELAP CERTIFICATE NUMBER 01955

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 02/28/2005

GCAL Report 205021805

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 Former N.S. CECIL FIELD

000001

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 205021805

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 287754, no MS/MSD was performed due to insufficient sample volume. The LCS/LCSD is included for review.

In the SW-846 8260B analysis for analytical batch 287758, the MS/MSD exhibited RPD failures.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida PRO analysis for prep batch 287772, the MS/MSD recoveries were below QC limits. All LCS/LCSD recoveries were acceptable.

In the Florida PRO analysis for prep batch 287723, the LCS/LCSD exhibited RPD failures, however all compounds were recovered within control limits.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In the SW-846 8310 analysis for prep batch 287770, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference. Acenaphthylene and 1-Methylnaphthalene were recovered outside of the established control limits for the LCS and LCSD.

In the SW-846 8310 analysis, the LCS 224269 had low recoveries, however, the LCSD 224270 and the MS/MSD recoveries were within QC limits. Samples were not re-extracted due to being outside holding time.

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 205021805

THIS REPORT CONTAINS 489 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180501	05283SCS050217	Solid	02/17/2005 15:00	02/18/2005 09:20
20502180502	05283EB1W050217	Water	02/17/2005 14:40	02/18/2005 09:20
20502180503	05283EB2W050217	Water	02/17/2005 15:10	02/18/2005 09:20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283SCS050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Soil

Sample wt/vol: 5.16 (g/ml) g

Lab Sample ID: 20502180501

Level: (low/med) LOW

Lab File ID: 2050219P/U0268

% Moisture: not dec. 2.

Date Collected: 02/17/05 Time: 1500

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

Date Received: 02/18/05

Instrument ID: MSV0

Date Analyzed: 02/19/05 Time: 1725

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 287754

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	4.95	U	0.103	4.95
100-41-4	Ethylbenzene	4.95	U	0.205	4.95
108-88-3	Toluene	4.95	U	0.545	4.95
1330-20-7	Xylene (total)	9.91	U	0.567	9.91
1634-04-4	tert-Butyl methyl ether (MTBE)	4.95	U	0.073	4.95

GCAL, Inc.

Data file : /var/chem/msv0.i/2050219p.s.b/u0268.d
Lab Smp Id: 20502180501 Client Smp ID: 05283SCS050217
Inj Date : 19-FEB-2005 17:25
Operator : RSP Inst ID: msv0.i
Smp Info : 20502180501*05283SCS050217
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 19-Feb-2005 17:25 rsp Quant Type: ISTD
Cal Date : 19-FEB-2005 09:41 Cal File: u0250.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.16000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
$ 25 Dibromofluoromethane	111	5.701	5.696	(0.919)	107728	45.6279	44.2	5797
$ 32 1,2-Dichloroethane-d4	67	5.992	5.987	(0.966)	47807	37.5268	36.4	4843
* 35 FLUOROBENZENE	96	6.203	6.198	(1.000)	428467	50.0000		9083
$ 46 Toluene-d8	98	7.353	7.348	(0.874)	377887	54.1331	52.5	9189
* 58 Chlorobenzene-d5	82	8.417	8.419	(1.000)	160897	50.0000		8336
$ 67 Bromofluorobenzene	174	9.230	9.232	(1.097)	92665	40.4705	39.2	9344
* 81 1,4-DICHLOROBENZENE-D4	152	9.990	9.985	(1.000)	109432	50.0000		7791

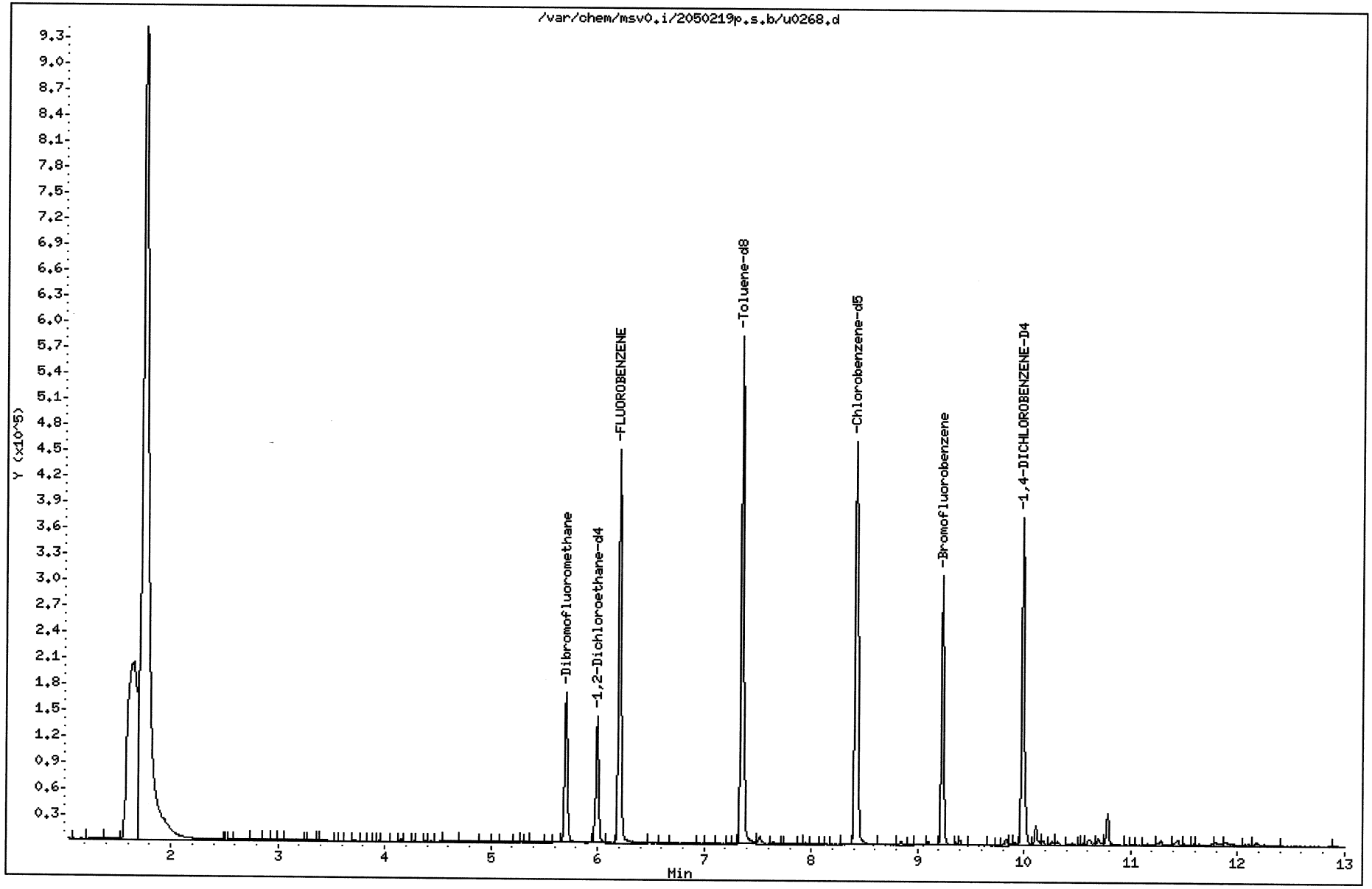
Data File: /var/chem/msv0.i/2050219p.s.b/u0268.d
Date : 19-FEB-2005 17:25
Client ID: 05283SCS050217
Sample Info: 20502180501*05283SCS050217

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

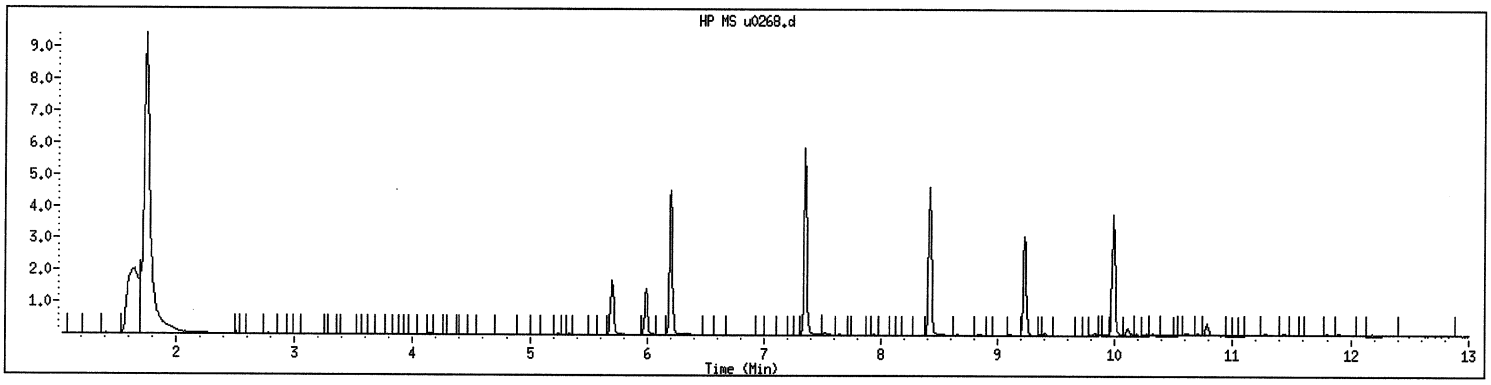
000007



Data file : /var/chem/msv0.i/2050219p.s.b/u0268.d
Report Date: 02/20/2005 08:04

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20502180501	SampleType	: SAMPLE
Injection Date	: 19-FEB-2005 17:25	Instrument	: msv0.i
Operator	: RSP		
Sample Info	: 20502180501*05283SCS050217		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283EB1W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Water

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

Lab Sample ID: 20502180502

Level: (low/med) LOW

Lab File ID: 2050220/E7457

% Moisture: not dec.

Date Collected: 02/17/05 Time: 1440

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

Date Received: 02/18/05

Instrument ID: MSV5

Date Analyzed: 02/20/05 Time: 1519

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RFS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 287758

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	1.00	U	0.836	1.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
108-88-3	Toluene	5.00	U	0.678	5.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2050220.s.b/e7457.d
Lab Smp Id: 20502180502 Client Smp ID: 05283EB1W050217
Inj Date : 20-FEB-2005 15:19
Operator : RFS Inst ID: msv5.i
Smp Info : 20502180502*05283EB1W050217
Misc Info : MSV~5840~*1*RFS
Comment :
Method : /var/chem/msv5.i/2050220.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 10:24 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 16
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

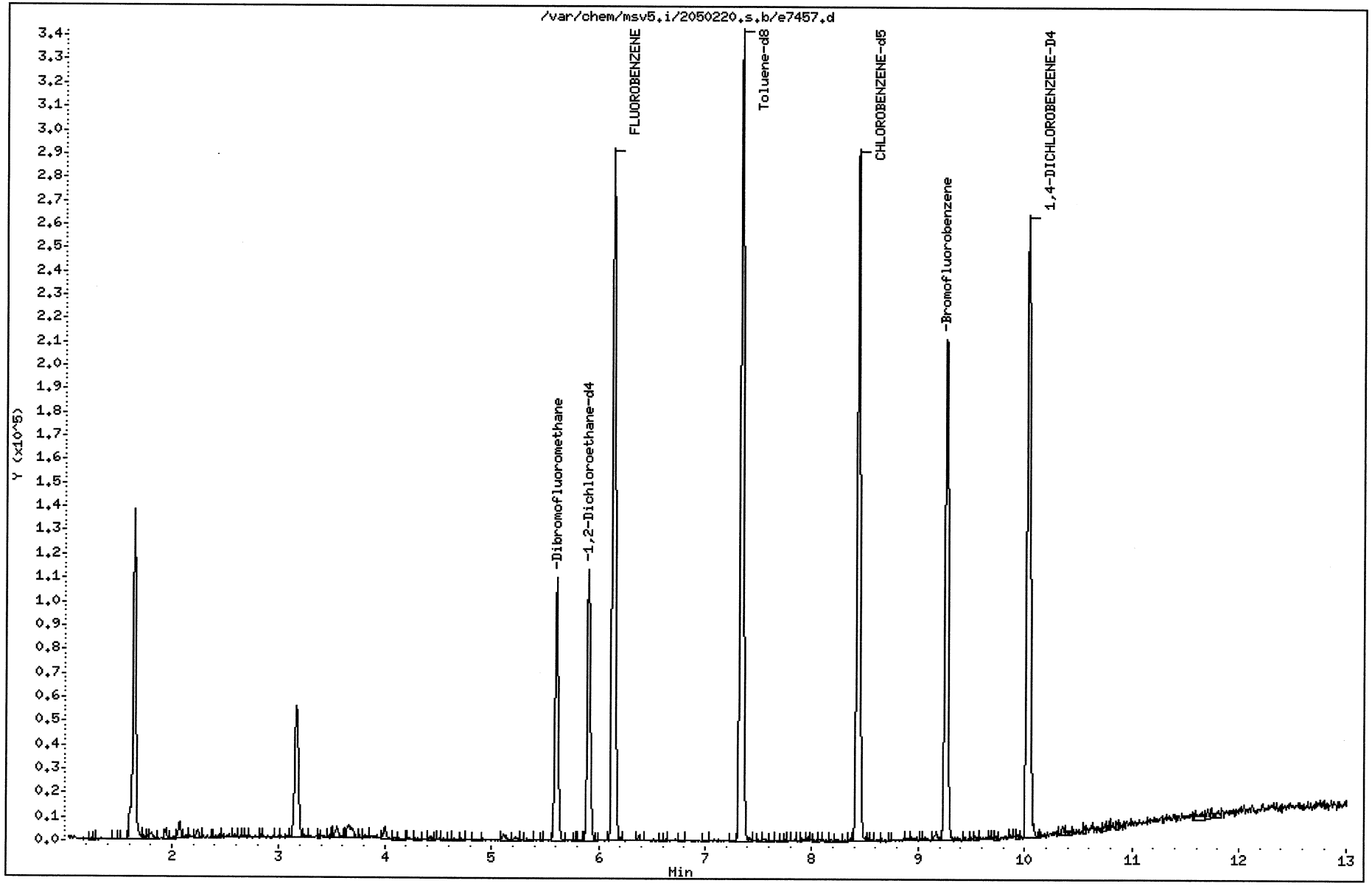
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
18 Methylene Chloride	49	3.996	3.992	(0.651)	3579	1.71077	1.71	
$ 38 Dibromofluoromethane	111	5.610	5.596	(0.914)	78182	54.3465	54.3	1686
$ 45 1,2-Dichloroethane-d4	67	5.902	5.895	(0.962)	42802	54.4945	54.5	
* 47 FLUOROBENZENE	96	6.136	6.129	(1.000)	273094	50.0000		
$ 60 Toluene-d8	98	7.341	7.330	(0.870)	254620	55.6866	55.7	
* 70 CHLOROBENZENE-d5	82	8.434	8.426	(1.000)	116378	50.0000		
$ 80 Bromofluorobenzene	174	9.265	9.259	(1.098)	72458	53.7683	53.8	
* 99 1,4-DICHLOROBENZENE-D4	152	10.031	10.023	(1.000)	87961	50.0000		

Data File: /var/chem/msv5.i/2050220.s.b/e7457.d
Date : 20-FEB-2005 15:19
Client ID: 05283EB1W050217
Sample Info: 20502180502*05283EB1W050217
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: RFS
Column diameter: 0.53

000011



Data File: /var/chem/msv5.i/2050220.s.b/e7457.d

Date : 20-FEB-2005 15:19

Client ID: 05283EB1W050217

Instrument: msv5.i

Sample Info: 20502180502*05283EB1W050217

Purge Volume: 5.0

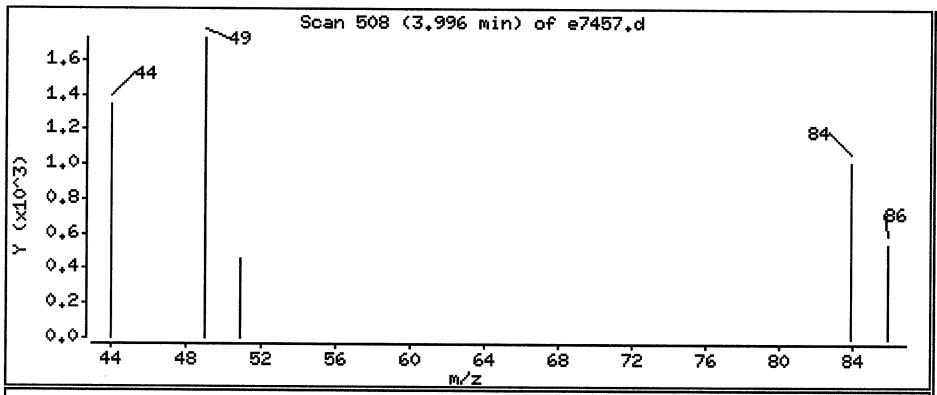
Operator: RFS

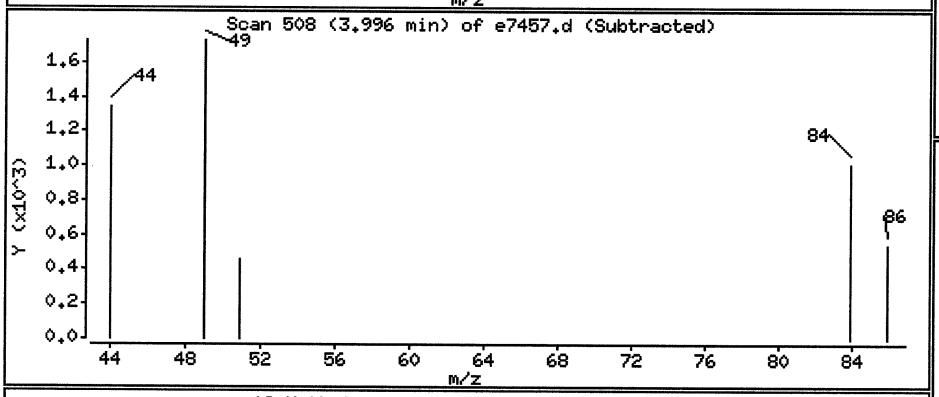
Column phase: DB-624-30M

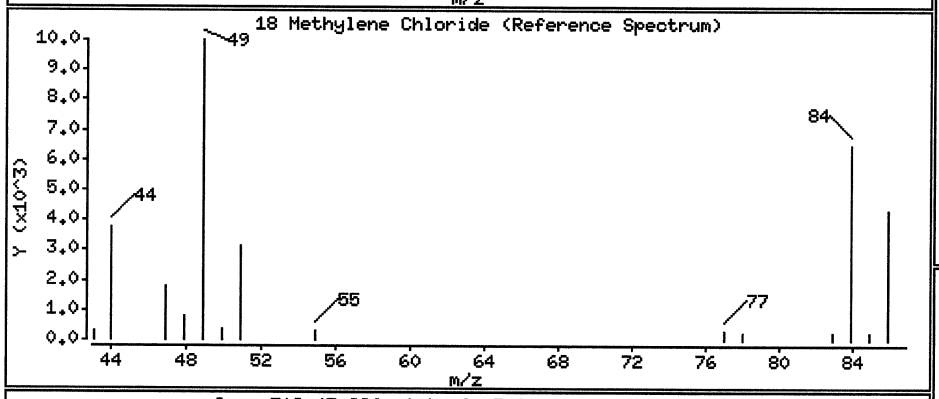
Column diameter: 0.53

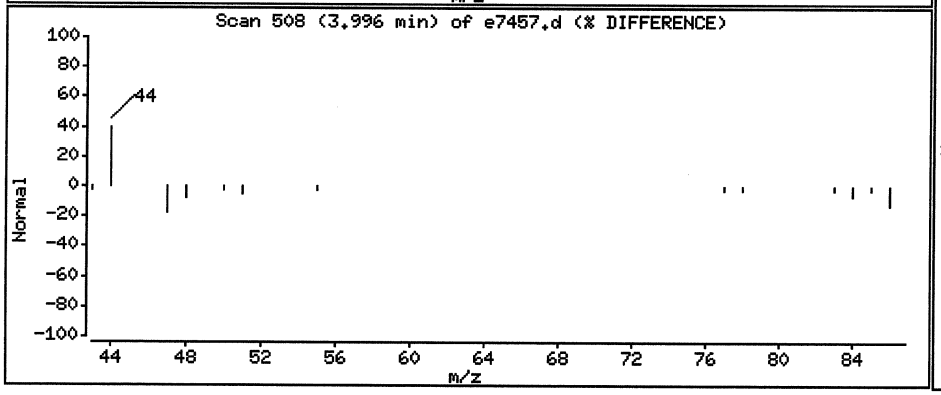
18 Methylene Chloride

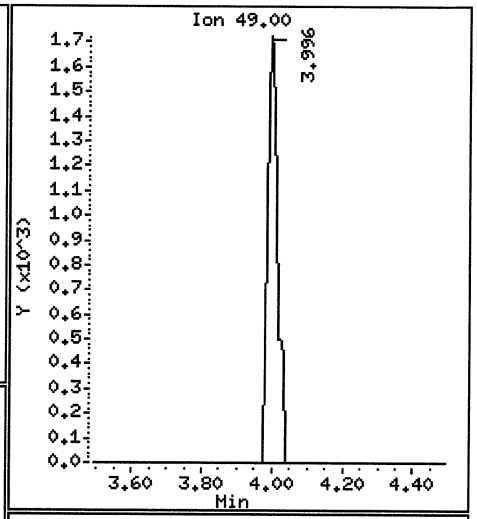
Concentration: 1.71 ug/L

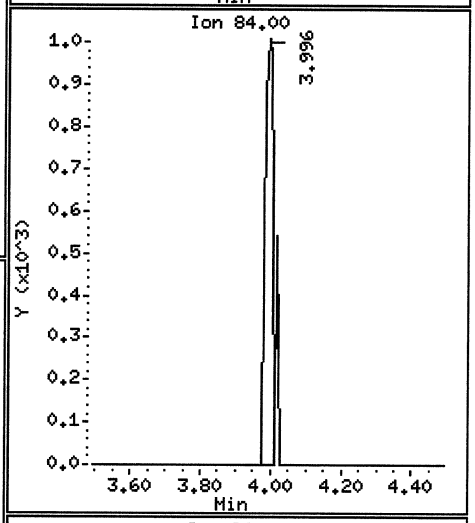


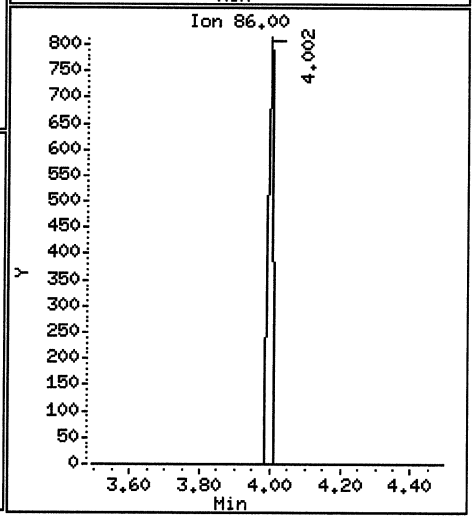








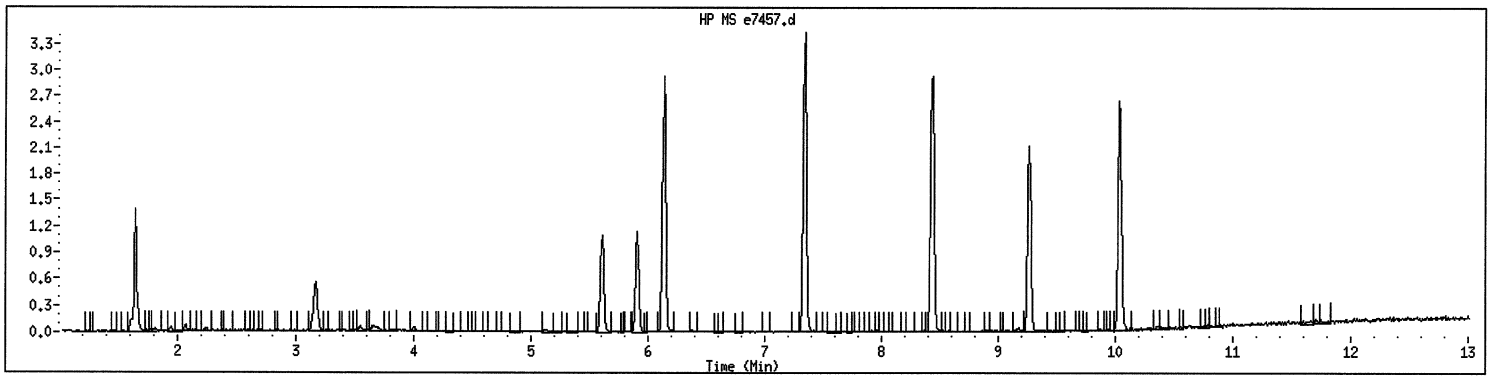




Data file : /var/chem/msv5.i/2050220.s.b/e7457.d
Report Date: 02/20/2005 15:54

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20502180502	SampleType	: SAMPLE
Injection Date	: 20-FEB-2005 15:19	Instrument	: msv5.i
Operator	: RFS		
Sample Info	: 20502180502*05283EB1W050217		
Misc Info	: MSV~5840~*1*RFS		
Method	: /var/chem/msv5.i/2050220.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.

05283EB2W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Water

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

Lab Sample ID: 20502180503

Level: (low/med) LOW

Lab File ID: 2050220/E7458

% Moisture: not dec.

Date Collected: 02/17/05 Time: 1510

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

Date Received: 02/18/05

Instrument ID: MSV5

Date Analyzed: 02/20/05 Time: 1542

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RFS

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 287758

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	1.00	U	0.836	1.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
108-88-3	Toluene	5.00	U	0.678	5.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2050220.s.b/e7458.d
Lab Smp Id: 20502180503 Client Smp ID: 05283EB2W050217
Inj Date : 20-FEB-2005 15:42
Operator : RFS Inst ID: msv5.i
Smp Info : 20502180503*05283EB2W050217
Misc Info : MSV~5840~*1*RFS
Comment :
Method : /var/chem/msv5.i/2050220.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 10:24 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 1
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	

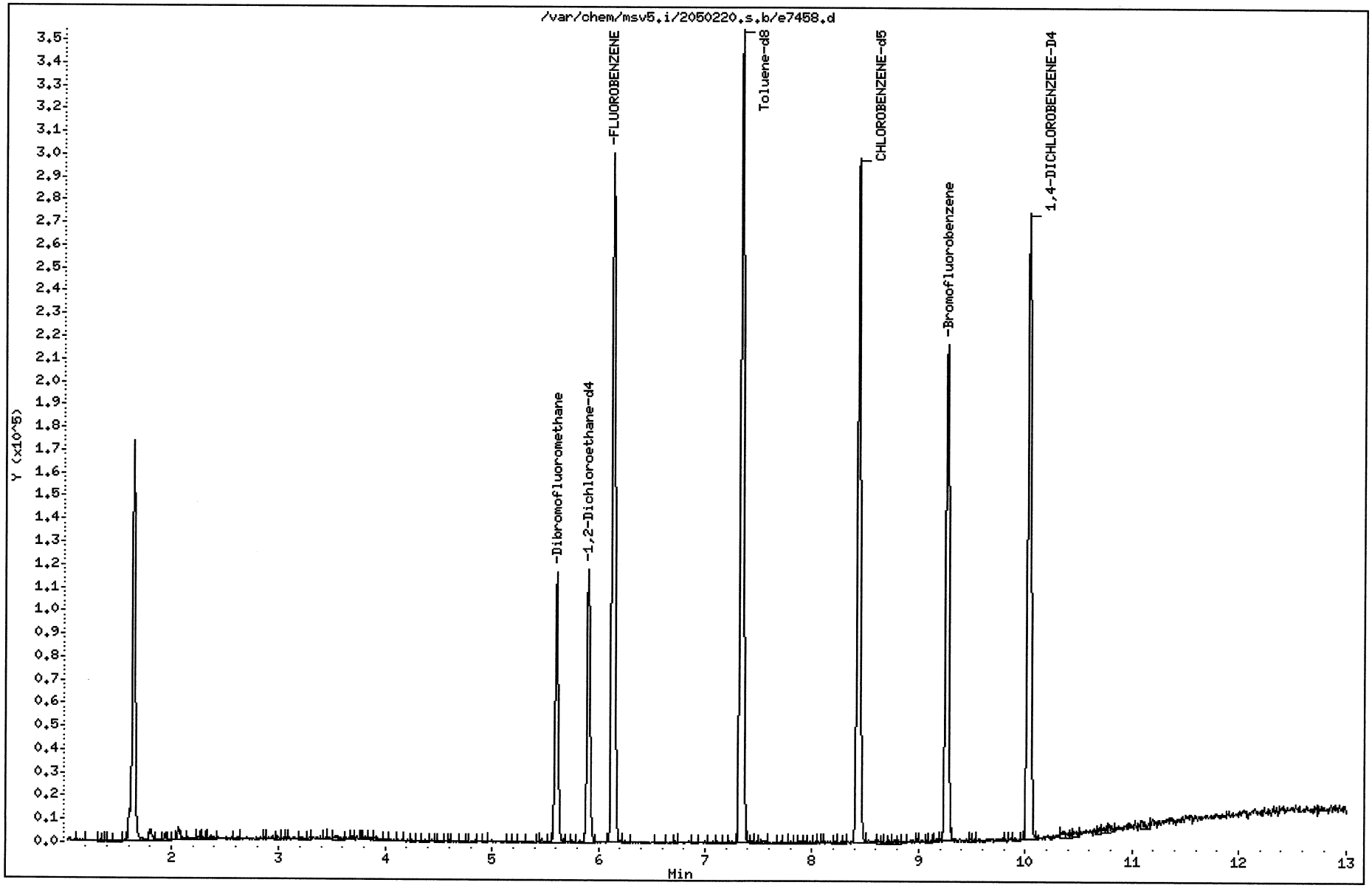
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.604	5.596	(0.913)	80729	53.2100	53.2	1734
$ 45 1,2-Dichloroethane-d4	67	5.902	5.895	(0.962)	43954	53.0622	53.1	
* 47 FLUOROBENZENE	96	6.136	6.129	(1.000)	288014	50.0000		
$ 60 Toluene-d8	98	7.341	7.330	(0.870)	261608	55.2747	55.3	
* 70 CHLOROBENZENE-d5	82	8.434	8.426	(1.000)	120463	50.0000		
$ 80 Bromofluorobenzene	174	9.265	9.259	(1.098)	73161	52.4490	52.4	
* 99 1,4-DICHLOROBENZENE-D4	152	10.037	10.023	(1.000)	92295	50.0000		

Data File: /var/chem/msv5.i/2050220.s.b/e7458.d
Date : 20-FEB-2005 15:42
Client ID: 05283EB2W050217
Sample Info: 20502180503*05283EB2W050217
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

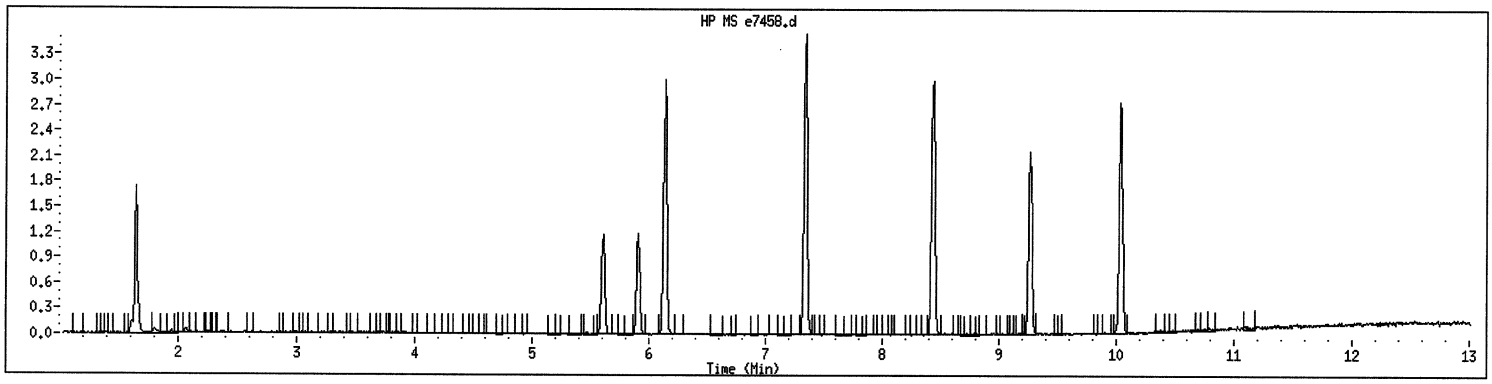
Operator: RFS
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050220.s.b/e7458.d
Report Date: 02/20/2005 16:04

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20502180503	SampleType	: SAMPLE
Injection Date	: 20-FEB-2005 15:42	Instrument	: msv5.i
Operator	: RFS		
Sample Info	: 20502180503*05283EB2W050217		
Misc Info	: MSV~5840~*1*RFS		
Method	: /var/chem/msv5.i/2050220.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.

MB224392

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 224392

Level: (low/med) LOW Lab File ID: 2050219P/U0260

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 02/19/05 Time: 1433

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287754

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	5.00	U	0.104	5.00
100-41-4	Ethylbenzene	5.00	U	0.207	5.00
108-88-3	Toluene	5.00	U	0.550	5.00
1330-20-7	Xylene (total)	10.0	U	0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.074	5.00

GCAL, Inc.

Data file : /var/chem/msv0.i/2050219p.s.b/u0260.d
Lab Smp Id: 224392 Client Smp ID: MB for HBN 287754
Inj Date : 19-FEB-2005 14:33
Operator : KCB Inst ID: msv0.i
Smp Info : 224392*MB for HBN 287754
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 21-Feb-2005 08:03 rsp Quant Type: ISTD
Cal Date : 19-FEB-2005 08:00 Cal File: u0246.d
Als bottle: 8 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

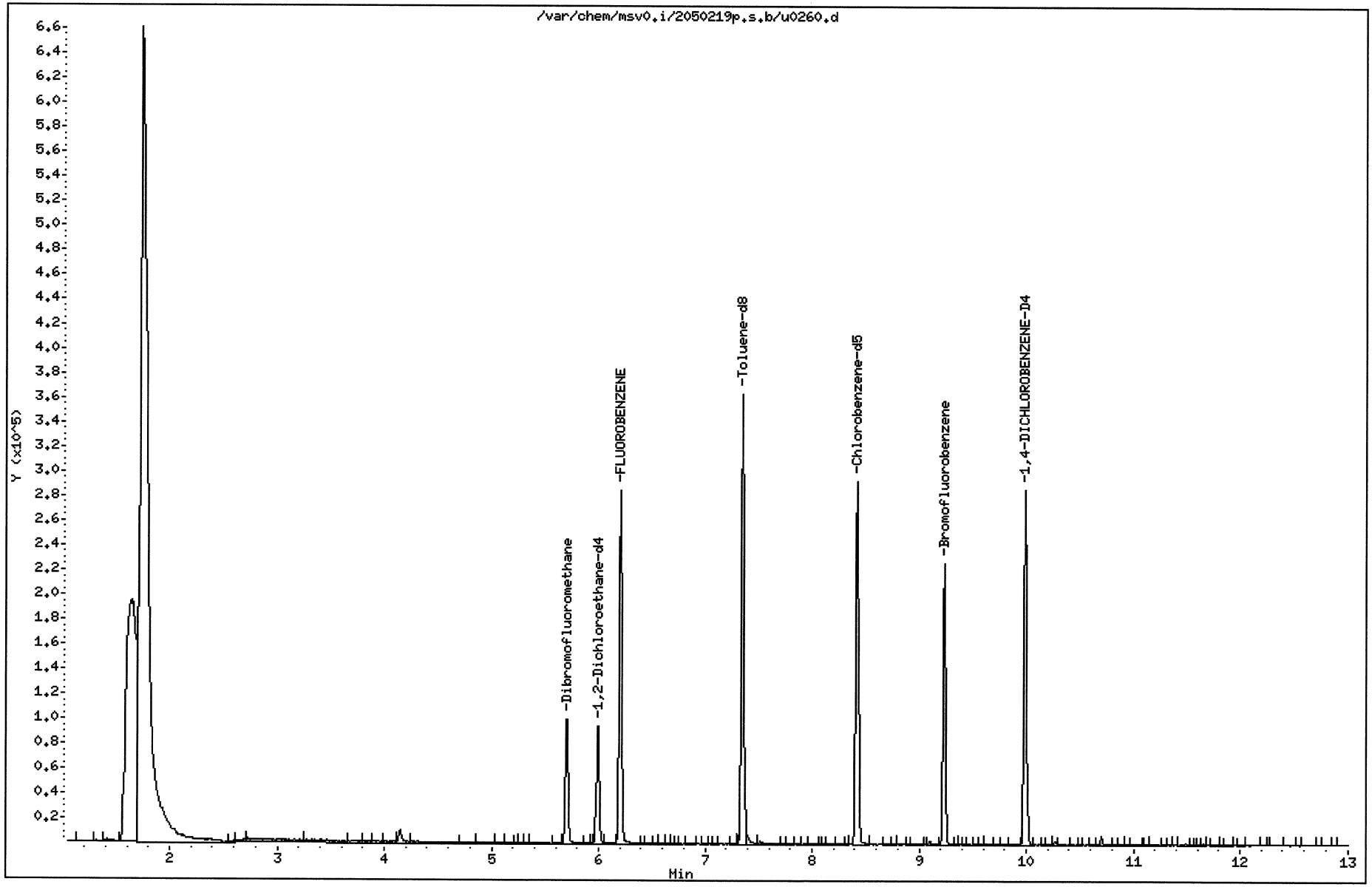
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.150	4.143	(0.670)	6833	2.69455	2.69	7835
$ 25 Dibromofluoromethane	111	5.703	5.696	(0.920)	61013	49.1276	49.1	5844
$ 32 1,2-Dichloroethane-d4	67	5.994	5.987	(0.967)	30625	45.7013	45.7	4869
* 35 FLUOROBENZENE	96	6.199	6.198	(1.000)	225380	50.0000		9628
$ 46 Toluene-d8	98	7.355	7.348	(0.874)	219981	55.0480	55.0	9647
* 58 Chlorobenzene-d5	82	8.419	8.419	(1.000)	92107	50.0000		8748
$ 67 Bromofluorobenzene	174	9.232	9.232	(1.097)	59221	45.1808	45.2	9696
* 81 1,4-DICHLOROBENZENE-D4	152	9.992	9.985	(1.000)	75283	50.0000		7961

Data File: /var/chem/msv0.i/2050219p.s.b/u0260.d
Date : 19-FEB-2005 14:33
Client ID: MB for HBN 287754
Sample Info: 224392*MB for HBN 287754

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53



000020

Data File: /var/chem/msv0.i/2050219p.s.b/u0260.d

Date : 19-FEB-2005 14:33

Client ID: MB for HBN 287754

Instrument: msv0.i

Sample Info: 224392*MB for HBN 287754

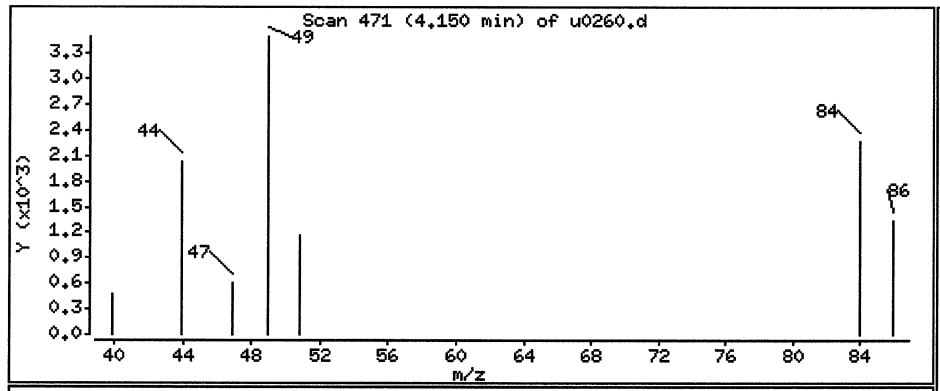
Operator: KCB

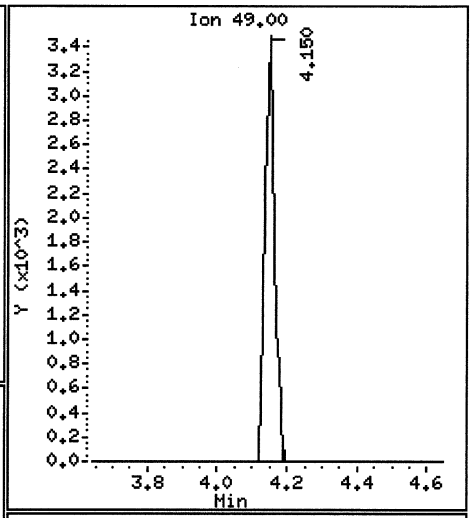
Column phase: DB-624-30M

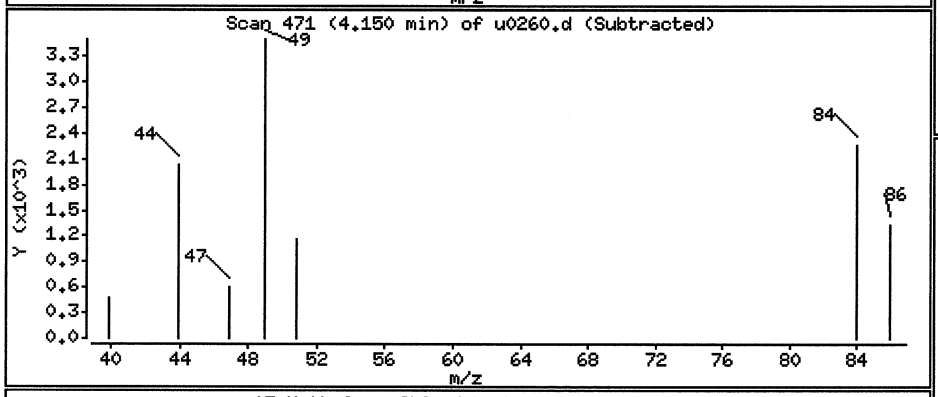
Column diameter: 0.53

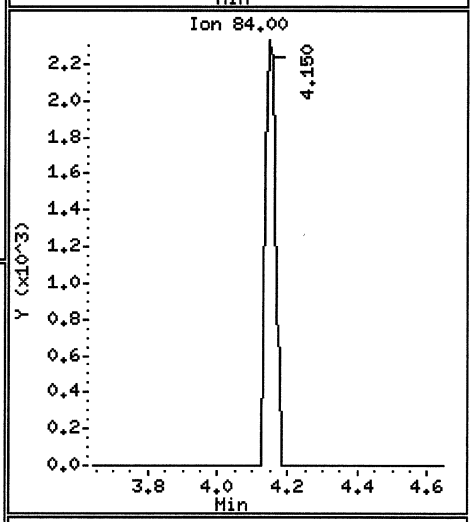
13 Methylene Chloride

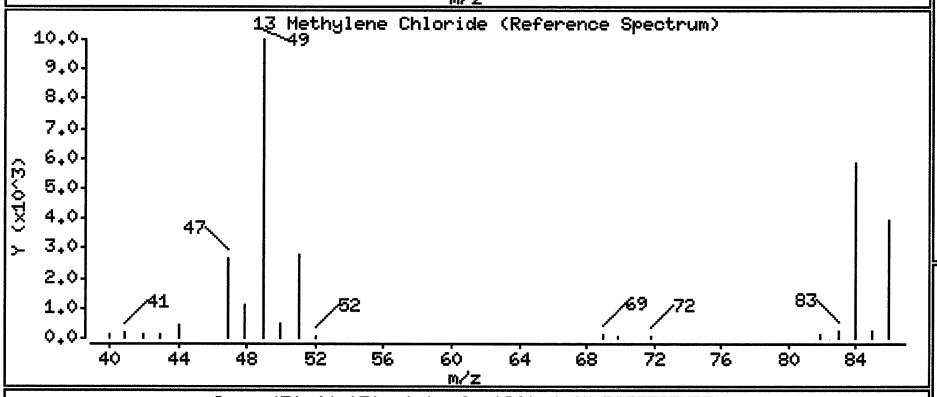
Concentration: 2.69 ug/Kg

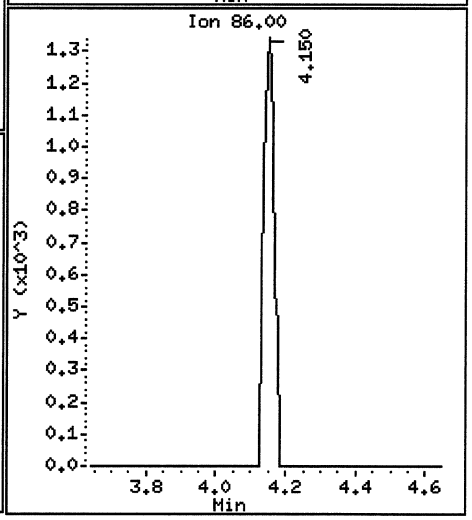


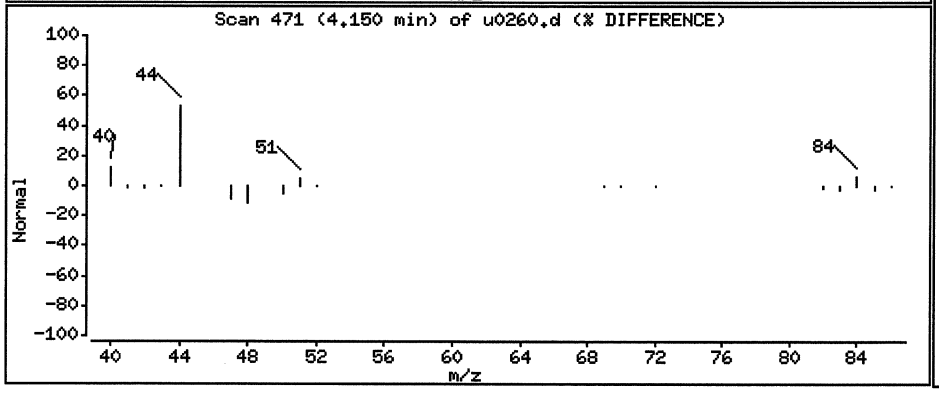








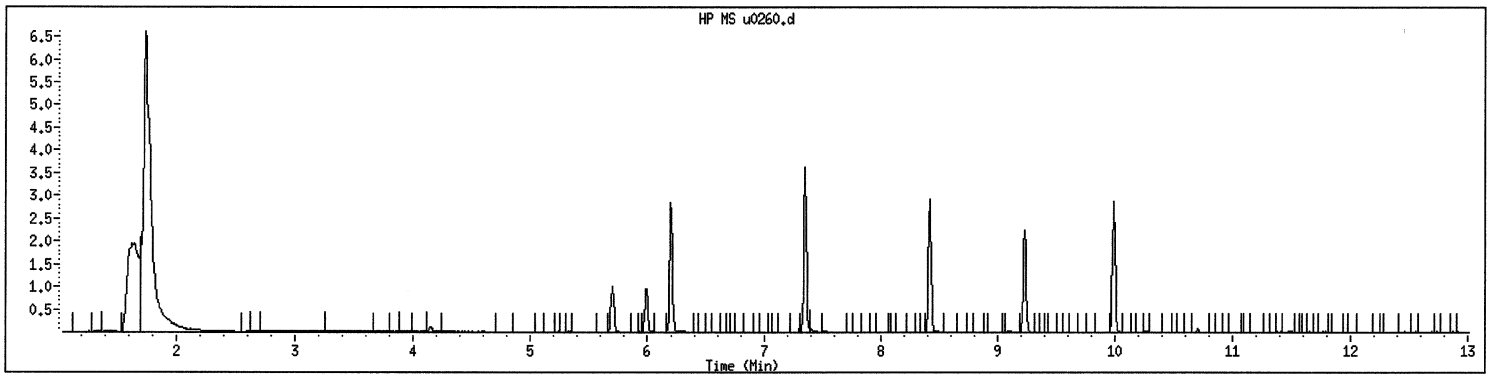




Data file : /var/chem/msv0.i/2050219p.s.b/u0260.d
Report Date: 02/21/2005 08:04

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 224392	SampleType	: BLANK
Injection Date	: 19-FEB-2005 14:33	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 224392*MB for HBN 287754		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB224410

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224410

Level: (low/med) LOW Lab File ID: 2050220/E7443

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV5 Date Analyzed: 02/20/05 Time: 0941

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287758

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	1.00	U	0.836	1.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
108-88-3	Toluene	5.00	U	0.678	5.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2050220.s.b/e7443.d
Lab Smp Id: 224410 Client Smp ID: MB for HBN 287758
Inj Date : 20-FEB-2005 09:41
Operator : RFS Inst ID: msv5.i
Smp Info : 224410*MB for HBN 287758
Misc Info : MSV~5840~*1*RFS
Comment :
Method : /var/chem/msv5.i/2050220.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 09:28 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 10 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	

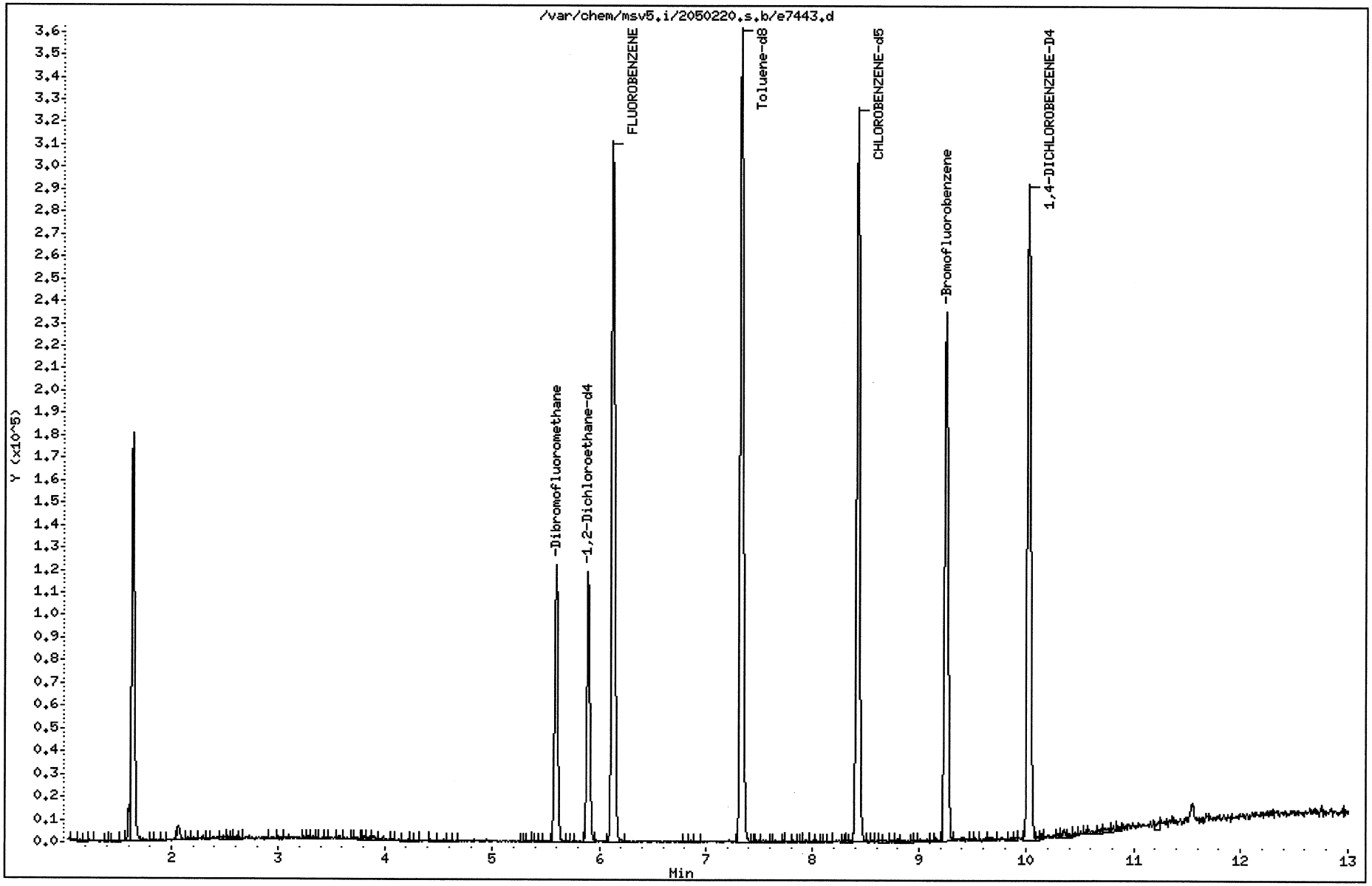
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 38 Dibromofluoromethane	111	5.598	5.596	(0.914)	82490	52.8201	52.8	1737
$ 45 1,2-Dichloroethane-d4	67	5.896	5.895	(0.963)	44686	52.4074	52.4	
* 47 FLUOROBENZENE	96	6.124	6.129	(1.000)	296469	50.0000		
$ 60 Toluene-d8	98	7.329	7.330	(0.870)	273536	55.8747	55.9	
* 70 CHLOROBENZENE-d5	82	8.423	8.426	(1.000)	124603	50.0000		
$ 80 Bromofluorobenzene	174	9.253	9.259	(1.099)	76388	52.9429	52.9	
* 99 1,4-DICHLOROBENZENE-D4	152	10.026	10.023	(1.000)	98164	50.0000		

000025

Data File: /var/chem/msv5.i/2050220.s.b/e7443.d
Date : 20-FEB-2005 09:41
Client ID: MB for HBN 287758
Sample Info: 224410*MB for HBN 287758
Purge Volume: 5.0
Column phase: DB-624-30M

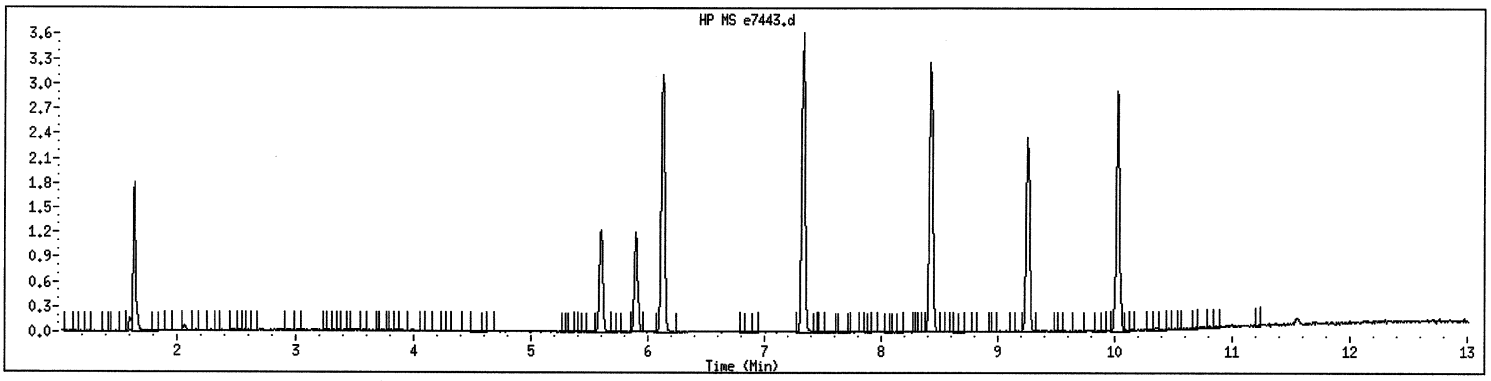
Instrument: msv5.i
Operator: RFS
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050220.s.b/e7443.d
Report Date: 02/20/2005 09:56

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 224410	SampleType	: BLANK
Injection Date	: 20-FEB-2005 09:41	Instrument	: msv5.i
Operator	: RFS		
Sample Info	: 224410*MB for HBN 287758		
Misc Info	: MSV~5840~*1*RFS		
Method	: /var/chem/msv5.i/2050220.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.

LCS224393

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 224393

Level: (low/med) LOW Lab File ID: 2050219P/U0258

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 02/19/05 Time: 1350

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287754

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	25.6		0.104	5.00
100-41-4	Ethylbenzene	26.1		0.207	5.00
108-88-3	Toluene	26.4		0.550	5.00
1330-20-7	Xylene (total)	79.5		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	24.0		0.074	5.00

GCAL, Inc.

Data file : /var/chem/msv0.i/2050219p.s.b/u0258.d
Lab Smp Id: 224393 Client Smp ID: LCS for HBN 287754
Inj Date : 19-FEB-2005 13:50
Operator : KCB Inst ID: msv0.i
Smp Info : 224393*LCS for HBN 287754
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 21-Feb-2005 08:03 rsp Quant Type: ISTD
Cal Date : 19-FEB-2005 08:00 Cal File: u0246.d
Als bottle: 6 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.901	1.903	(0.307)	42671	24.1103	24.1	7453
2 Chloromethane ++	50	2.106	2.108	(0.340)	42815	16.8751	16.9	8736
3 Vinyl Chloride +	62	2.219	2.220	(0.358)	46851	19.9344	19.9	8706
4 Bromomethane	94	2.582	2.590	(0.417)	21306	14.0890	14.1	8929(R)
5 Chloroethane	64	2.701	2.703	(0.436)	21778	20.3765	20.4	7815
6 Trichlorofluoromethane	101	2.952	2.954	(0.476)	43458	22.1752	22.2	9229
7 Acrolein	56	3.540	3.548	(0.571)	17122	116.282	116	8852
9 1,1,2Trichlotrifluoroethane	101	3.527	3.529	(0.569)	29852	22.1300	22.1	8795
8 1,1-Dichloroethene +	96	3.567	3.568	(0.576)	27800	22.2721	22.3	8578
10 Acetone	43	3.705	3.714	(0.598)	14016	14.6956	14.7	2167
11 Methyl Iodide	142	3.758	3.760	(0.606)	33533	22.8044	22.8	7679
12 Carbon Disulfide	76	3.798	3.800	(0.613)	119025	21.4893	21.5	8505
106 Methyl Acetate	43	4.016	4.018	(0.648)	19460	19.8065	19.8	9156

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	13 Methylene Chloride	49	4.142	4.143	(0.668)	54781	22.5492	22.5	9242
	14 Acrylonitrile	53	4.452	4.454	(0.718)	62320	119.356	119	7667
	15 trans-1,2-Dichloroethene	61	3.567	3.568	(0.576)	43503	21.6891	21.7	8647
	16 MTBE	73	4.333	4.335	(0.699)	75098	23.9621	24.0	8983
	17 Hexane	57	4.531	4.533	(0.731)	47786	20.4780	20.5	8874
	19 Vinyl Acetate	43	4.816	4.817	(0.777)	86430	27.8795	27.9	
	18 1,1-Dichloroethane ++	63	4.796	4.791	(0.774)	61690	25.7343	25.7	9144
	22 2-Butanone	43	5.331	5.333	(0.860)	22052	23.7223	23.7	
	21 cis-1,2-Dichloroethene	61	5.305	5.306	(0.856)	53539	26.2852	26.3	9507
	20 2,2-Dichloropropane	77	5.278	5.280	(0.852)	37446	25.0840	25.1	9660
	23 Bromochloromethane	128	5.516	5.518	(0.890)	14324	28.7604	28.8	8858
	24 Chloroform +	83	5.562	5.557	(0.898)	51453	26.8414	26.8	9637
$	25 Dibromofluoromethane	111	5.694	5.696	(0.919)	51791	43.5296	43.5	9030
	26 1,1,1-Trichloroethane	97	5.681	5.676	(0.917)	38277	24.2435	24.2	8791
	105 Cyclohexane	56	5.668	5.663	(0.915)	56780	23.7037	23.7	8926
	27 1,1-Dichloropropene	75	5.807	5.809	(0.937)	38848	25.2285	25.2	9551
	28 Carbon Tetrachloride	117	5.780	5.782	(0.933)	29714	24.5398	24.5	9567
$	32 1,2-Dichloroethane-d4	67	5.992	5.987	(0.967)	25945	40.4141	40.4	8433
	33 Benzene	78	5.972	5.974	(0.964)	135278	25.5990	25.6	9421
	34 1,2-Dichloroethane	62	6.051	6.046	(0.977)	35771	26.3586	26.4	8783
*	35 FLUOROBENZENE	96	6.197	6.198	(1.000)	215918	50.0000		9584
	36 Trichloroethene	130	6.468	6.463	(1.044)	27374	25.3726	25.4	9551
	40 Methyl cyclohexane	83	6.554	6.555	(1.058)	46895	24.5984	24.6	9613
	37 1,2-Dichloropropane +	63	6.679	6.674	(1.078)	39079	27.5064	27.5	9080
M	31 Total 1,2-Dichloroethene	61				97042	48.0096	48.0	0
	38 Dibromomethane	93	6.772	6.773	(1.093)	17364	27.8919	27.9	9270
	39 Bromodichloromethane	83	6.871	6.866	(1.109)	37329	27.6697	27.7	9658
	41 2-Chloroethyl vinyl ether	63	7.069	7.064	(1.141)	13058	27.5339	27.5	7006(H)
	42 1-Bromo-2-chloroethane	144	7.128	7.124	(1.150)	4494	30.2402	30.2	9212
	44 cis-1,3-Dichloropropene	75	7.195	7.190	(1.161)	52018	28.1320	28.1	
	45 4-methyl-2-pentanone	43	7.869	7.864	(1.270)	28762	19.5694	19.6	
$	46 Toluene-d8	98	7.353	7.348	(0.874)	184364	46.8995	46.9	9675
	47 Toluene +	91	7.399	7.401	(0.879)	136280	26.3757	26.4	9398
	51 trans-1,3-Dichloropropene	75	7.598	7.599	(0.903)	47831	28.1067	28.1	
M	146 1-3 Dichloropropene-Total	100				99849	56.2927	56.3	0
	52 1,1,2-Trichloroethane	97	7.743	7.738	(0.920)	24351	26.3915	26.4	9350
	53 1,3-Dichloropropane	76	7.869	7.864	(0.935)	50873	27.5880	27.6	9496
	54 Tetrachloroethene	164	7.783	7.778	(0.925)	21646	25.0783	25.1	9652
	55 2-Hexanone	43	7.274	7.276	(0.864)	41690	36.7584	36.8	8684
	56 Dibromochloromethane	129	8.021	8.016	(0.953)	27625	27.0200	27.0	9416
	57 1,2-Dibromoethane(EDB)	107	8.126	8.121	(0.965)	24992	28.5229	28.5	9216
*	58 Chlorobenzene-d5	82	8.417	8.419	(1.000)	90606	50.0000		9187
	59 Chlorobenzene ++	112	8.444	8.439	(1.003)	82269	25.7463	25.7	9570
	60 1,1,1,2-Tetrachloroethane	133	8.496	8.491	(1.009)	27113	27.2704	27.3	6384
	61 Ethylbenzene +	106	8.470	8.465	(1.006)	45054	26.0935	26.1	9436
	62 p,m-Xylene	106	8.549	8.551	(1.016)	116001	52.8601	52.9	9808
	63 o-Xylene	106	8.847	8.842	(1.051)	56970	26.6047	26.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	64 Styrene	104	8.860	8.855	(1.053)	105496	27.5448	27.5	9355
	65 Bromoform ++	173	9.038	9.033	(1.074)	19314	26.2202	26.2	9408
	66 Isopropylbenzene	105	9.071	9.073	(1.078)	142353	25.9726	26.0	9747
$	67 Bromofluorobenzene	174	9.237	9.232	(1.097)	54951	42.6176	42.6	9658
	68 1,1,2,2-Tetrachloroethane++	83	9.322	9.318	(0.933)	38081	26.8888	26.9	5329
	69 trans-1,4-Dichloro-2-Butene	53	9.455	9.450	(0.946)	4865	24.8697	24.9	8584
	70 1,2,3-Trichloropropane	75	9.369	9.364	(0.938)	47358	27.0934	27.1	6681
	71 Bromobenzene	77	9.349	9.344	(0.936)	83763	26.2562	26.3	7594
	72 n-Propylbenzene	91	9.349	9.344	(0.936)	194510	24.9646	25.0	8509
	73 2-Chlorotoluene	91	9.455	9.450	(0.946)	126812	26.0405	26.0	7222(H)
	74 1,3,5-Trimethylbenzene	105	9.455	9.450	(0.946)	121965	25.3445	25.3	
	75 4-Chlorotoluene	91	9.527	9.522	(0.954)	116474	26.5124	26.5	9819
	76 tert-butylbenzene	91	9.673	9.668	(0.968)	82517	26.1164	26.1	9726
	77 1,2,4-Trimethylbenzene	105	9.712	9.707	(0.972)	129627	26.1900	26.2	
	78 sec-Butylbenzene	105	9.811	9.807	(0.982)	168955	24.9892	25.0	
	79 p-Isopropyltoluene	119	9.897	9.892	(0.991)	135343	25.5590	25.6	9822
	80 1,3-Dichlorobenzene	146	9.950	9.945	(0.996)	75158	26.4494	26.4	
*	81 1,4-DICHLOROBENZENE-D4	152	9.990	9.985	(1.000)	89127	50.0000		9067
	82 1,4-Dichlorobenzene	146	10.010	10.005	(1.002)	75721	26.1809	26.2	
	83 n-Butylbenzene	91	10.155	10.150	(1.017)	140557	24.6818	24.7	9780
	85 1,2-Dichlorobenzene	146	10.254	10.249	(1.026)	69784	26.6885	26.7	
	86 1,2-Dibromo-3-Chloropropane	157	10.770	10.765	(1.078)	7130	28.2059	28.2	9031
M	84 TOTAL XYLENE	106				172971	79.4648	79.5	0
	87 1,2,4-Trichlorobenzene	180	11.292	11.287	(1.130)	43130	27.1670	27.2	
	88 Hexachlorobutadiene	225	11.338	11.333	(1.135)	18369	25.8023	25.8	9302
	89 Napthalene	128	11.490	11.478	(1.150)	98324	28.0760	28.1	9764
	90 1,2,3-Trichlorobenzene	180	11.655	11.650	(1.167)	39595	27.8041	27.8	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

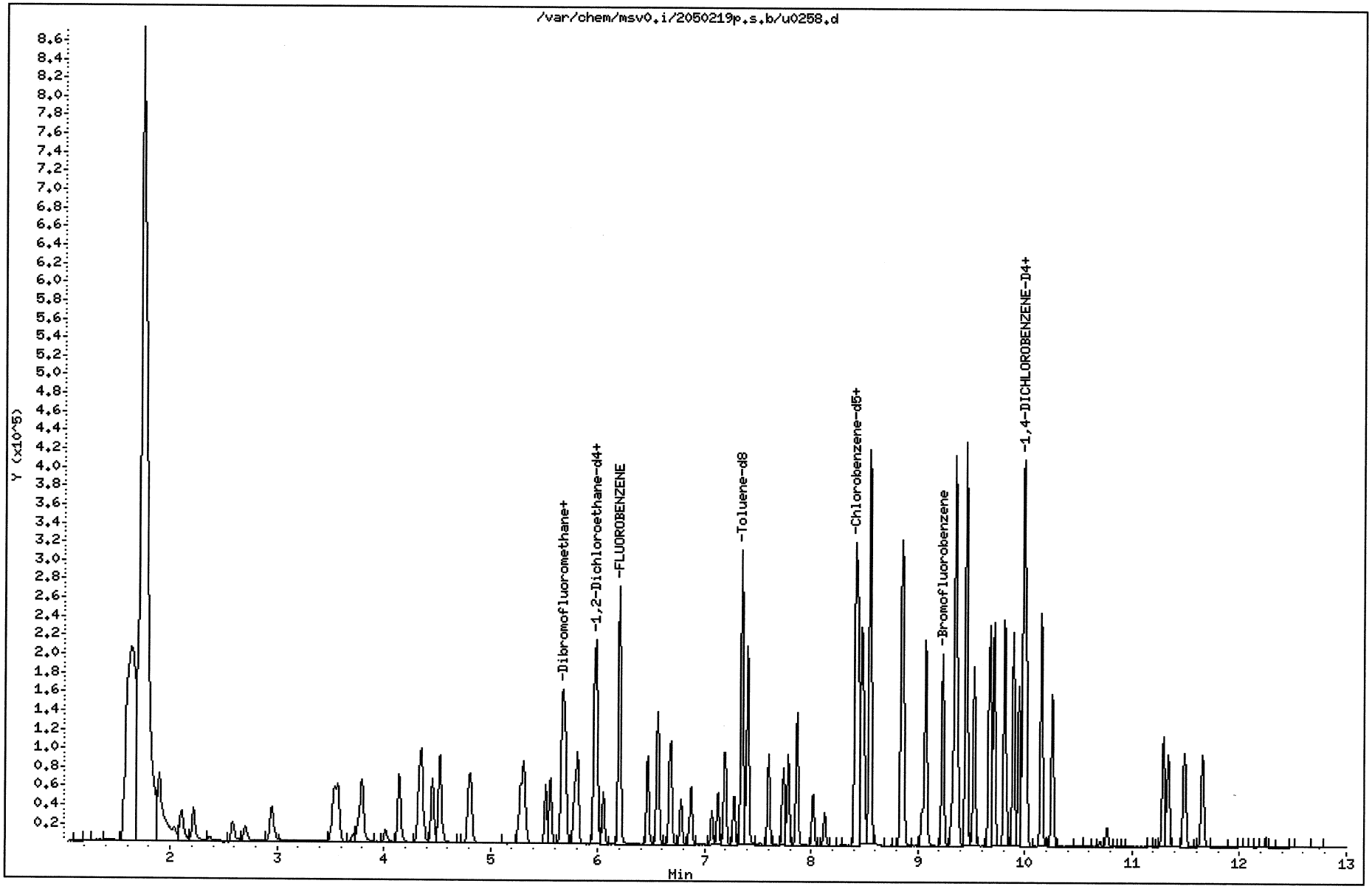
Data File: /var/chem/msv0.i/2050219p.s.b/u0258.d
Date : 19-FEB-2005 13:50
Client ID: LCS for HBN 287754
Sample Info: 224393*LCS for HBN 287754

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

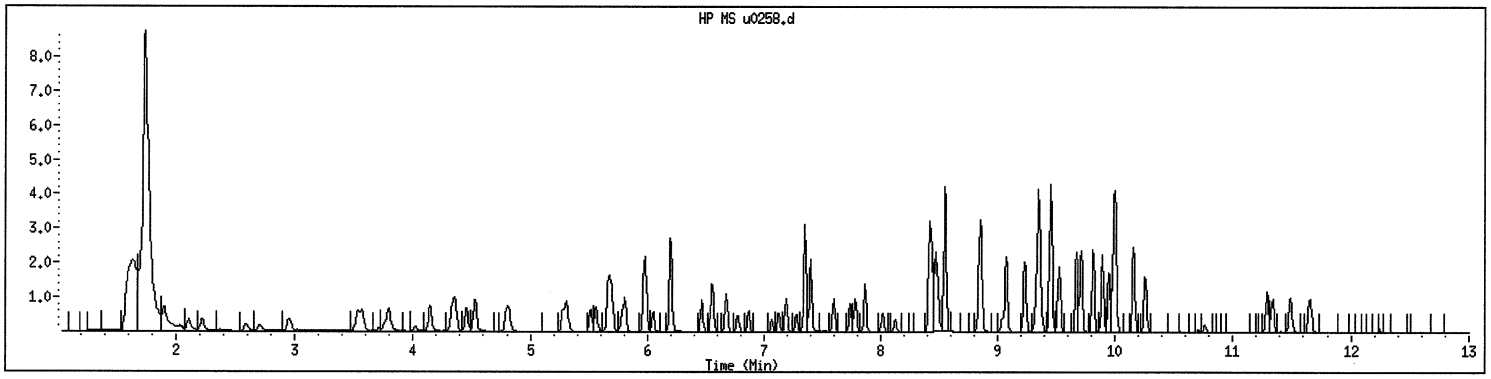
000031



Data file : /var/chem/msv0.i/2050219p.s.b/u0258.d
Report Date: 02/21/2005 08:04

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 224393	SampleType	: LCS
Injection Date	: 19-FEB-2005 13:50	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 224393*LCS for HBN 287754		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD224394

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 224394

Level: (low/med) LOW Lab File ID: 2050219P/U0259

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 02/19/05 Time: 1412

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287754

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	25.1		0.104	5.00
100-41-4	Ethylbenzene	25.5		0.207	5.00
108-88-3	Toluene	25.8		0.550	5.00
1330-20-7	Xylene (total)	76.4		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	23.4		0.074	5.00

GCAL, Inc.

Data file : /var/chem/msv0.i/2050219p.s.b/u0259.d
Lab Smp Id: 224394 Client Smp ID: LCSD for HBN 287754
Inj Date : 19-FEB-2005 14:12
Operator : KCB Inst ID: msv0.i
Smp Info : 224394*LCSD for HBN 287754
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 21-Feb-2005 08:03 rsp Quant Type: ISTD
Cal Date : 19-FEB-2005 08:00 Cal File: u0246.d
Als bottle: 7 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.904	1.903	(0.307)	39177	21.3564	21.4	7151
2 Chloromethane ++	50	2.109	2.108	(0.340)	47986	18.2470	18.2	8787
3 Vinyl Chloride +	62	2.221	2.220	(0.358)	45840	18.8172	18.8	8594
4 Bromomethane	94	2.591	2.590	(0.418)	22580	14.4276	14.4	9026(R)
5 Chloroethane	64	2.703	2.703	(0.436)	22802	20.5831	20.6	7762
6 Trichlorofluoromethane	101	2.954	2.954	(0.477)	41765	20.5606	20.6	9099
7 Acrolein	56	3.549	3.548	(0.573)	18027	118.116	118	8297
9 1,1,2Trichlotrifluoroethane	101	3.529	3.529	(0.569)	29454	21.0659	21.1	8764
8 1,1-Dichloroethene +	96	3.576	3.568	(0.577)	27462	21.2264	21.2	8342
10 Acetone	43	3.721	3.714	(0.600)	14772	14.9657	15.0	2270
11 Methyl Iodide	142	3.761	3.760	(0.607)	35641	23.3842	23.4	7540
12 Carbon Disulfide	76	3.800	3.800	(0.613)	119285	20.7776	20.8	8587
106 Methyl Acetate	43	4.018	4.018	(0.648)	19989	19.6283	19.6	8875

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	13 Methylene Chloride	49	4.144	4.143	(0.668)	57459	22.8185	22.8	9198
	14 Acrylonitrile	53	4.461	4.454	(0.720)	64683	119.518	120	7635
	15 trans-1,2-Dichloroethene	61	3.576	3.568	(0.577)	44387	21.3503	21.4	8589
	16 MTBE	73	4.336	4.335	(0.699)	76057	23.4132	23.4	9132
	17 Hexane	57	4.534	4.533	(0.731)	48867	20.2036	20.2	8773
	19 Vinyl Acetate	43	4.818	4.817	(0.777)	85919	26.7385	26.7	
	18 1,1-Dichloroethane ++	63	4.798	4.791	(0.774)	62723	25.2436	25.2	9195
	22 2-Butanone	43	5.333	5.333	(0.860)	23091	23.9651	24.0	
	21 cis-1,2-Dichloroethene	61	5.307	5.306	(0.856)	53492	25.3371	25.3	9502
	20 2,2-Dichloropropane	77	5.281	5.280	(0.852)	37783	24.4182	24.4	9631
	23 Bromochloromethane	128	5.519	5.518	(0.890)	14477	28.0437	28.0	9025
	24 Chloroform +	83	5.565	5.557	(0.898)	51771	26.0560	26.1	9685
$	25 Dibromofluoromethane	111	5.697	5.696	(0.919)	47786	38.7487	38.7	8910
	26 1,1,1-Trichloroethane	97	5.684	5.676	(0.917)	39824	24.3349	24.3	8910
	105 Cyclohexane	56	5.664	5.663	(0.914)	58729	23.6538	23.7	8212
	27 1,1-Dichloropropene	75	5.809	5.809	(0.937)	39596	24.8086	24.8	9606
	28 Carbon Tetrachloride	117	5.783	5.782	(0.933)	30801	24.5415	24.5	9540
$	32 1,2-Dichloroethane-d4	67	5.988	5.987	(0.966)	24550	36.8941	36.9	9370
	33 Benzene	78	5.974	5.974	(0.964)	137320	25.0701	25.1	9447
	34 1,2-Dichloroethane	62	6.047	6.046	(0.975)	36546	25.9811	26.0	8818
*	35 FLUOROBENZENE	96	6.199	6.198	(1.000)	223801	50.0000		9642
	36 Trichloroethene	130	6.470	6.463	(1.044)	27905	24.9537	25.0	9543
	40 Methyl cyclohexane	83	6.556	6.555	(1.058)	48116	24.3498	24.3	9622
	37 1,2-Dichloropropane +	63	6.675	6.674	(1.077)	39512	26.8316	26.8	9043
M	31 Total 1,2-Dichloroethene	61				97879	46.7181	46.7	0
	38 Dibromomethane	93	6.774	6.773	(1.093)	17212	26.6739	26.7	9286
	39 Bromodichloromethane	83	6.867	6.866	(1.108)	38183	27.3058	27.3	9586
	41 2-Chloroethyl vinyl ether	63	7.065	7.064	(1.140)	14221	29.4017	29.4	7006(H)
	42 1-Bromo-2-chloroethane	144	7.131	7.124	(1.150)	4351	28.5483	28.5	9120
	44 cis-1,3-Dichloropropene	75	7.190	7.190	(1.160)	52803	27.5507	27.6	
	45 4-methyl-2-pentanone	43	7.864	7.864	(1.269)	29454	19.3343	19.3	
$	46 Toluene-d8	98	7.349	7.348	(0.873)	167452	41.0951	41.1	9741
	47 Toluene +	91	7.402	7.401	(0.879)	138096	25.7846	25.8	9413
	51 trans-1,3-Dichloropropene	75	7.600	7.599	(0.903)	47781	27.0872	27.1	
M	146 1-3 Dichloropropene-Total	100				100584	54.7097	54.7	0
	52 1,1,2-Trichloroethane	97	7.739	7.738	(0.919)	25192	26.3402	26.3	9418
	53 1,3-Dichloropropane	76	7.871	7.864	(0.935)	51972	27.1901	27.2	9477
	54 Tetrachloroethene	164	7.785	7.778	(0.925)	21887	24.4633	24.5	9559
	55 2-Hexanone	43	7.276	7.276	(0.864)	42117	35.8253	35.8	8709
	56 Dibromochloromethane	129	8.016	8.016	(0.952)	28643	27.0278	27.0	9470
	57 1,2-Dibromoethane(EDB)	107	8.129	8.121	(0.965)	25051	27.5820	27.6	9105
*	58 Chlorobenzene-d5	82	8.420	8.419	(1.000)	93918	50.0000		9418
	59 Chlorobenzene ++	112	8.439	8.439	(1.002)	83360	25.1678	25.2	8859
	60 1,1,1,2-Tetrachloroethane	133	8.492	8.491	(1.009)	27466	26.6512	26.7	7256
	61 Ethylbenzene +	106	8.472	8.465	(1.006)	45578	25.4661	25.5	9533
	62 p,m-Xylene	106	8.552	8.551	(1.016)	114639	50.3973	50.4	9820
	63 o-Xylene	106	8.842	8.842	(1.050)	57673	25.9832	26.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	64 Styrene	104	8.862	8.855	(1.053)	105272	26.5170	26.5	9026
	65 Bromoform ++	173	9.041	9.033	(1.074)	20163	26.4074	26.4	9350
	66 Isopropylbenzene	105	9.074	9.073	(1.078)	142790	25.1336	25.1	9831
$	67 Bromofluorobenzene	174	9.232	9.232	(1.097)	49625	37.1298	37.1	9698
	68 1,1,2,2-Tetrachloroethane++	83	9.318	9.318	(0.933)	38578	26.5588	26.6	4553
	69 trans-1,4-Dichloro-2-Butene	53	9.457	9.450	(0.947)	4618	23.0169	23.0	8809
	70 1,2,3-Trichloropropane	75	9.371	9.364	(0.938)	46976	26.2031	26.2	5995
	71 Bromobenzene	77	9.345	9.344	(0.936)	84732	25.8961	25.9	7658
	72 n-Propylbenzene	91	9.345	9.344	(0.936)	194291	24.3132	24.3	8437
	73 2-Chlorotoluene	91	9.450	9.450	(0.946)	127040	25.4352	25.4	7454(H)
	74 1,3,5-Trimethylbenzene	105	9.457	9.450	(0.947)	122576	24.8347	24.8	
	75 4-Chlorotoluene	91	9.523	9.522	(0.954)	114375	25.3839	25.4	9787
	76 tert-butylbenzene	91	9.669	9.668	(0.968)	83085	25.6389	25.6	9669
	77 1,2,4-Trimethylbenzene	105	9.708	9.707	(0.972)	131492	25.9027	25.9	
	78 sec-Butylbenzene	105	9.814	9.807	(0.983)	171543	24.7378	24.7	
	79 p-Isopropyltoluene	119	9.893	9.892	(0.991)	135846	25.0127	25.0	9772
	80 1,3-Dichlorobenzene	146	9.946	9.945	(0.996)	75284	25.8315	25.8	
*	81 1,4-DICHLOROBENZENE-D4	152	9.986	9.985	(1.000)	91412	50.0000		8977
	82 1,4-Dichlorobenzene	146	10.006	10.005	(1.002)	75855	25.5717	25.6	
	83 n-Butylbenzene	91	10.151	10.150	(1.017)	143365	24.5456	24.5	9779
	85 1,2-Dichlorobenzene	146	10.250	10.249	(1.026)	70469	26.2768	26.3	
	86 1,2-Dibromo-3-Chloropropane	157	10.765	10.765	(1.078)	7021	27.1551	27.2	9115
M	84 TOTAL XYLENE	106				172312	76.3805	76.4	0
	87 1,2,4-Trichlorobenzene	180	11.288	11.287	(1.130)	43373	26.6372	26.6	
	88 Hexachlorobutadiene	225	11.334	11.333	(1.135)	18535	25.3847	25.4	9409
	89 Napthalene	128	11.479	11.478	(1.150)	102046	28.4104	28.4	9709
	90 1,2,3-Trichlorobenzene	180	11.651	11.650	(1.167)	40678	27.8506	27.9	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

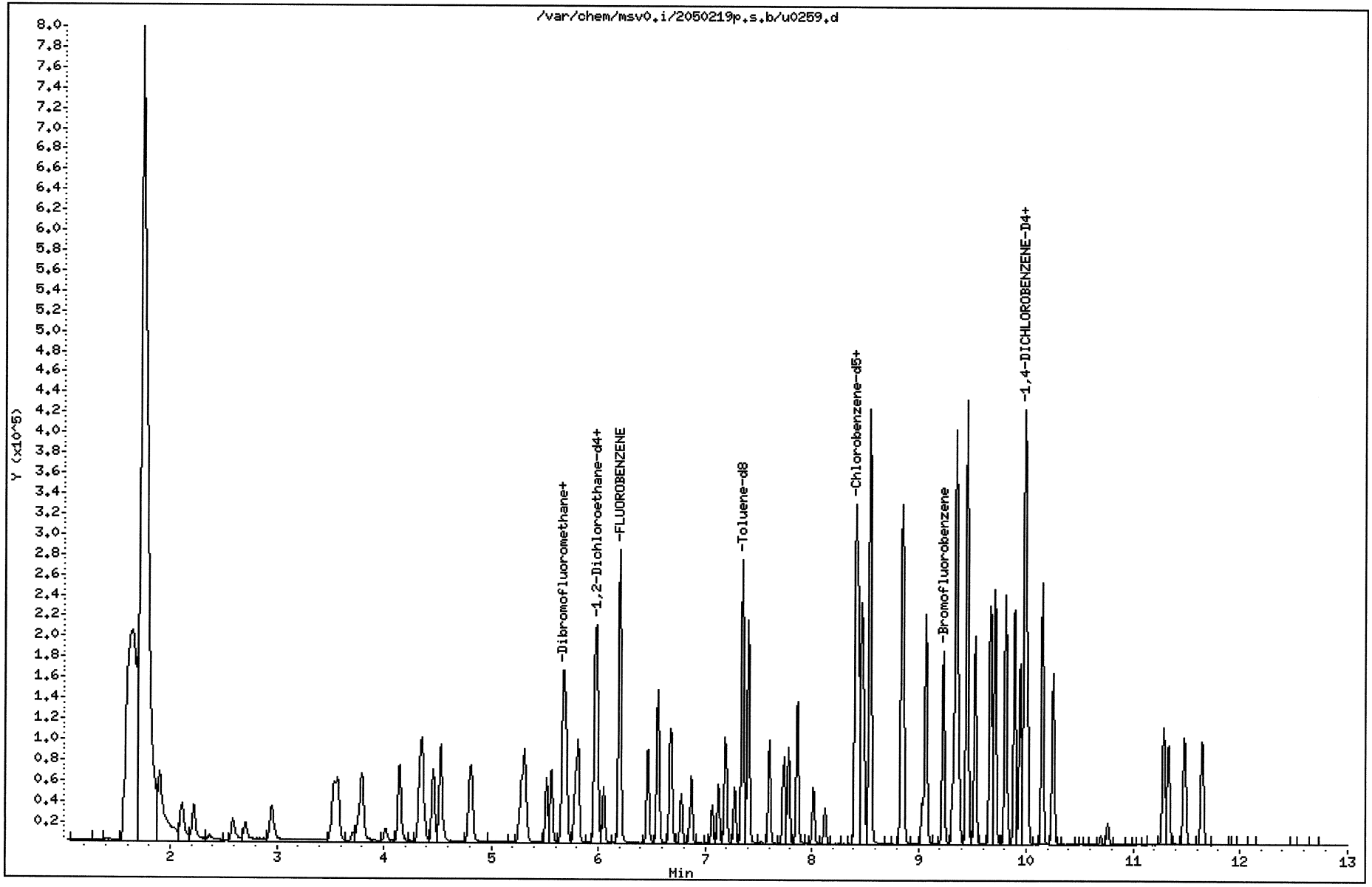
Data File: /var/chem/msv0.i/2050219p.s.b/u0259.d
Date : 19-FEB-2005 14:12
Client ID: LCSD for HBN 287754
Sample Info: 224394*LCSD for HBN 287754

Column phase: DB-624-30M

Instrument: msv0.i

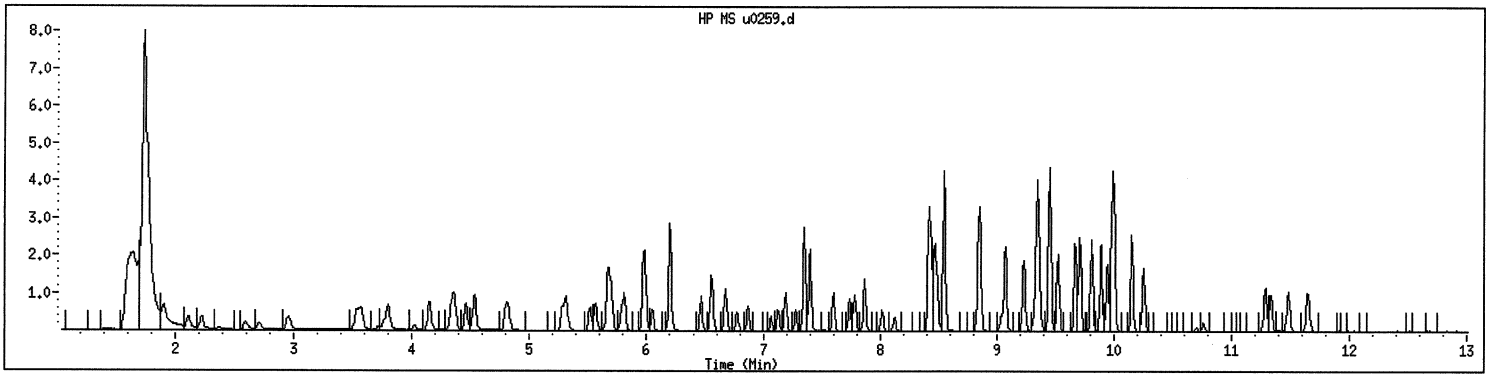
Operator: KCB
Column diameter: 0.53

000037



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 224394	SampleType	: LCSD
Injection Date	: 19-FEB-2005 14:12	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 224394*LCSD for HBN 287754		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS224409

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224409

Level: (low/med) LOW Lab File ID: 2050220/E7442

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV5 Date Analyzed: 02/20/05 Time: 0917

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287758

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-43-2	Benzene	27.2		0.836	1.00
100-41-4	Ethylbenzene	27.9		0.690	5.00
108-88-3	Toluene	26.8		0.678	5.00
1330-20-7	Xylene (total)	82.7		2.24	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	28.0		0.531	5.00

GCAL, Inc.

Data file : /var/chem/msv5.i/2050220.s.b/e7442.d
Lab Smp Id: 224409 Client Smp ID: LCS for HBN 287758
Inj Date : 20-FEB-2005 09:17
Operator : RFS Inst ID: msv5.i
Smp Info : 224409*LCS for HBN 287758
Misc Info : MSV~5840~*1*RFS
Comment :
Method : /var/chem/msv5.i/2050220.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 09:28 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 9 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	1.803	1.803	(0.294)	36698	27.5979	27.6	
2 Chloromethane ++	50	1.996	1.996	(0.326)	53104	27.6282	27.6	
3 Vinyl Chloride +	62	2.102	2.102	(0.343)	42990	27.7804	27.8	
5 Bromomethane	94	2.452	2.447	(0.400)	33372	28.0377	28.0	
6 Chloroethane	64	2.564	2.564	(0.418)	20259	25.3388	25.3	
7 Trichlorofluoromethane	101	2.809	2.815	(0.458)	37027	26.7084	26.7	
10 Acrolein	56	3.371	3.371	(0.550)	17131	136.784	137	
11 1,1,2Trichlotrifluoroethane	101	3.394	3.395	(0.554)	24682	26.5004	26.5	
12 1,1-Dichloroethene +	96	3.424	3.424	(0.559)	23977	27.3576	27.4	
13 Acetone	43	3.541	3.535	(0.578)	13103	29.0447	29.0	
14 Methyl Iodide	142	3.605	3.600	(0.588)	31570	21.2441	21.2	
15 Carbon Disulfide	76	3.646	3.640	(0.595)	97936	26.6116	26.6	
17 Methyl Acetate	43	3.862	3.863	(0.630)	24064	29.3971	29.4	4353(H)
18 Methylene Chloride	49	3.985	3.992	(0.650)	55595	26.5509	26.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.196	4.202	(0.685)	95127	28.0170	28.0	8239
	21 trans-1,2-Dichloroethene	61	4.225	4.220	(0.689)	53490	28.3380	28.3	
	22 Acrylonitrile	53	4.290	4.290	(0.700)	98331	154.806	155	
	24 Hexane	57	4.424	4.419	(0.722)	53029	26.2669	26.3	0 (M)
	27 1,1-Dichloroethane ++	63	4.664	4.665	(0.761)	71587	27.7964	27.8	
	28 Vinyl Acetate	43	4.693	4.694	(0.766)	112342	32.3977	32.4	
	30 2,2-Dichloropropane	77	5.167	5.168	(0.843)	48337	28.5219	28.5	
	31 cis-1,2-Dichloroethene	61	5.196	5.192	(0.848)	63484	27.7113	27.7	
	32 2-Butanone	43	5.214	5.209	(0.851)	24713	32.9631	33.0	(R)
	35 Bromochloromethane	128	5.401	5.408	(0.881)	21402	27.6228	27.6	
	36 Chloroform +	83	5.454	5.455	(0.890)	60510	28.1965	28.2	
	37 Cyclohexane	56	5.583	5.584	(0.911)	65292	27.1455	27.1	8523
$	38 Dibromofluoromethane	111	5.595	5.596	(0.913)	77563	53.8681	53.9	7694
	39 1,1,1-Trichloroethane	97	5.589	5.584	(0.912)	44891	28.2048	28.2	
	40 Carbon Tetrachloride	117	5.700	5.701	(0.930)	35295	27.2175	27.2	
	41 1,1-Dichloropropene	75	5.724	5.725	(0.934)	48551	27.2794	27.3	
M	42 Total 1,2-Dichloroethene	61				116974	56.0493	56.0	
	44 Benzene	78	5.894	5.889	(0.962)	151160	27.1638	27.2	
$	45 1,2-Dichloroethane-d4	67	5.894	5.895	(0.962)	41920	53.3239	53.3	
	46 1,2-Dichloroethane	62	5.958	5.959	(0.972)	46083	28.1026	28.1	
*	47 FLUOROBENZENE	96	6.128	6.129	(1.000)	273338	50.0000		
	49 Trichloroethene	130	6.409	6.410	(1.046)	39464	27.4682	27.5	
	50 Methyl Cyclohexane	83	6.514	6.516	(1.063)	58015	26.8679	26.9	9017
	51 1,2-Dichloropropane +	63	6.620	6.615	(1.080)	47992	27.5226	27.5	
	55 Dibromomethane	93	6.719	6.715	(1.097)	28173	27.5559	27.6	
	56 Bromodichloromethane	83	6.825	6.820	(1.114)	42694	26.8448	26.8	
	57 2-Chloroethyl vinyl ether	63	7.035	7.037	(1.148)	35680	27.0226	27.0	
	58 cis-1,3-Dichloropropene	75	7.158	7.160	(1.168)	69400	27.7042	27.7	
	59 4-methyl-2-pentanone	43	7.252	7.254	(1.183)	57096	29.9264	29.9	
$	60 Toluene-d8	98	7.334	7.330	(0.870)	257443	54.4064	54.4	
	61 Toluene +	91	7.381	7.383	(0.876)	156791	26.8293	26.8	
	63 trans-1,3-Dichloropropene	75	7.580	7.582	(0.899)	63612	26.8112	26.8	
	64 1,1,2-Trichloroethane	97	7.721	7.723	(0.916)	36261	27.0560	27.1	
	65 Tetrachloroethene	164	7.779	7.782	(0.923)	27419	25.8726	25.9	
	66 1,3-Dichloropropane	76	7.856	7.852	(0.932)	70407	26.5571	26.6	
	67 2-Hexanone	43	7.867	7.864	(0.933)	39808	32.4556	32.5	
	68 Dibromochloromethane	129	8.008	8.010	(0.950)	40782	27.6133	27.6	
	69 1,2-Dibromoethane(EDB)	107	8.113	8.110	(0.962)	42073	26.7511	26.8	
*	70 CHLOROBENZENE-d5	82	8.429	8.426	(1.000)	120437	50.0000		
	71 Chlorobenzene ++	112	8.447	8.449	(1.002)	104432	26.2993	26.3	
	72 Ethylbenzene +	106	8.488	8.491	(1.007)	55286	27.9499	27.9	
	73 1,1,1,2-Tetrachloroethane	133	8.500	8.502	(1.008)	33782	27.6317	27.6	
	74 p,m-Xylene	106	8.570	8.567	(1.017)	134836	55.3645	55.4	
	75 o-Xylene	106	8.863	8.866	(1.051)	65887	27.3413	27.3	
	76 Styrene	104	8.881	8.878	(1.054)	117968	27.1452	27.1	
	77 Bromoform ++	173	9.050	9.053	(1.074)	25145	27.5439	27.5	
	78 Isopropylbenzene	105	9.103	9.100	(1.080)	166031	28.0345	28.0	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.256	9.259	(1.098)	74176	53.1881	53.2	
81 1,1,2,2-Tetrachloroethane++	83	9.344	9.347	(0.932)	52669	29.3968	29.4	
82 Bromobenzene	77	9.373	9.370	(0.935)	99114	27.6775	27.7	
84 trans-1,4-Dichloro-2-Butene	53	9.385	9.382	(0.936)	13240	29.0751	29.1	
85 n-Propylbenzene	91	9.379	9.382	(0.936)	212224	28.8207	28.8	
86 1,2,3-Trichloropropane	75	9.391	9.388	(0.937)	67525	29.2924	29.3	
87 2-Chlorotoluene	91	9.479	9.482	(0.946)	137095	28.9604	29.0	
88 1,3,5-Trimethylbenzene	105	9.491	9.494	(0.947)	133505	28.6694	28.7	
89 4-Chlorotoluene	91	9.555	9.553	(0.953)	126617	27.7556	27.8	
91 tert-butylbenzene	91	9.708	9.711	(0.968)	89727	28.7694	28.8	
92 1,2,4-Trimethylbenzene	105	9.749	9.752	(0.972)	135362	27.9748	28.0	
96 sec-Butylbenzene	105	9.855	9.858	(0.983)	182911	28.7312	28.7	
97 p-Isopropyltoluene	119	9.937	9.935	(0.991)	146179	28.4643	28.5	
98 1,3-Dichlorobenzene	146	9.984	9.982	(0.996)	77007	27.9019	27.9	
* 99 1,4-DICHLOROBENZENE-D4	152	10.025	10.023	(1.000)	93250	50.0000		
100 1,4-Dichlorobenzene	146	10.037	10.041	(1.001)	76030	26.9233	26.9	
M 101 TOTAL XYLENE	106				200723	82.7058	82.7	
102 n-Butylbenzene	91	10.201	10.205	(1.018)	147807	29.1527	29.2	
103 1,2-Dichlorobenzene	146	10.295	10.293	(1.027)	70053	27.9575	28.0	
104 1,2-Dibromo-3-Chloropropane	157	10.810	10.814	(1.078)	8942	29.5372	29.5	
106 1,2,4-Trichlorobenzene	180	11.355	11.347	(1.133)	43850	29.0831	29.1	
107 Hexachlorobutadiene	225	11.413	11.412	(1.138)	21373	28.8972	28.9	
108 Naphthalene	128	11.548	11.547	(1.152)	142249	31.9533	32.0	
109 1,2,3-Trichlorobenzene	180	11.713	11.717	(1.168)	39818	27.8929	27.9	
140 1-Bromo-2-chloroethane	63	7.082	7.084	(1.156)	75860	27.8935	27.9	7444
M 139 1-3 Dichloropropene-Total	100				133012	54.5155	54.5	0

QC Flag Legend

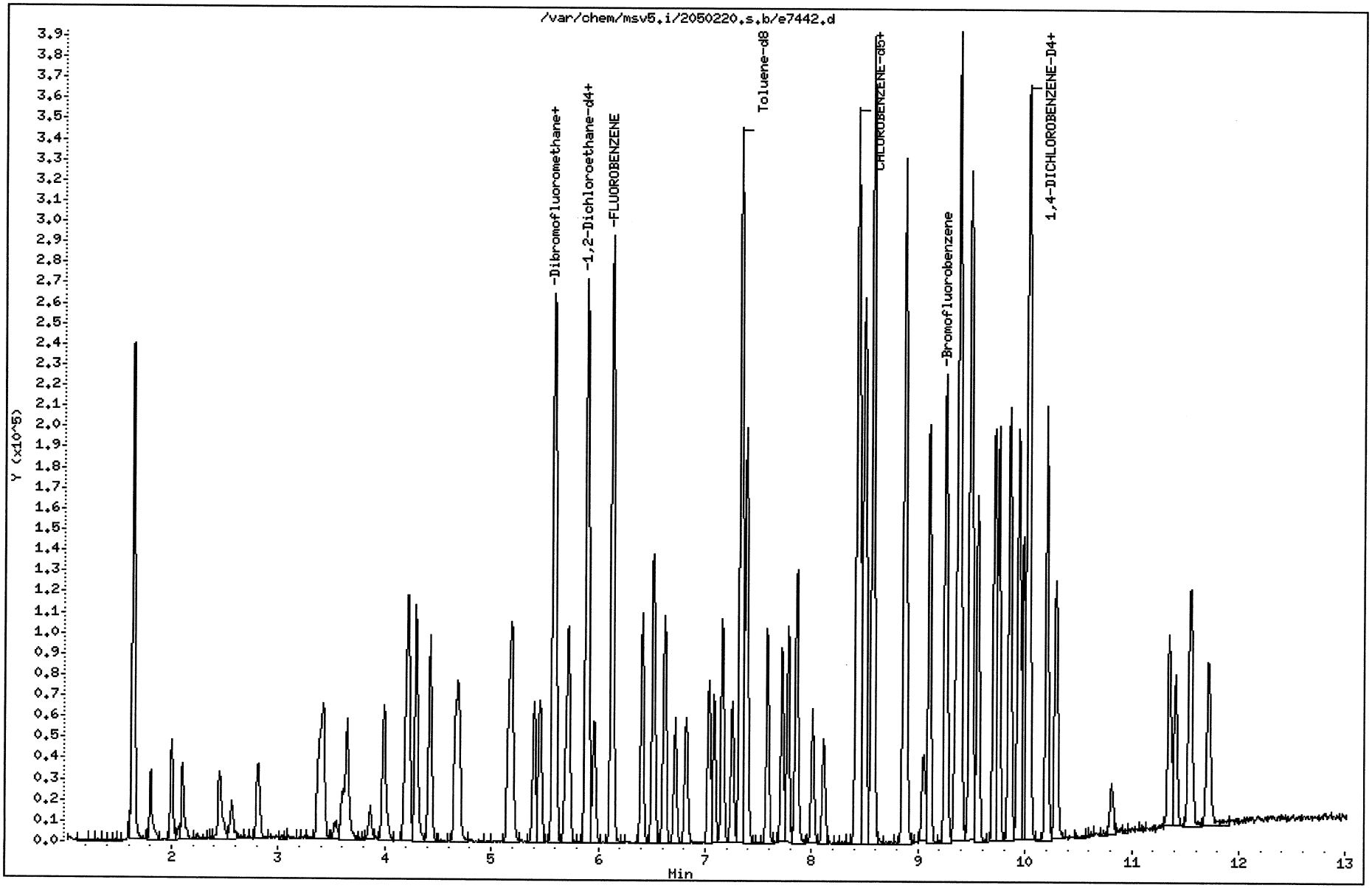
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050220.s.b/e7442.d
Date : 20-FEB-2005 09:17
Client ID: LCS for HBN 287758
Sample Info: 224409*LCS for HBN 287758
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: RFS
Column diameter: 0.53

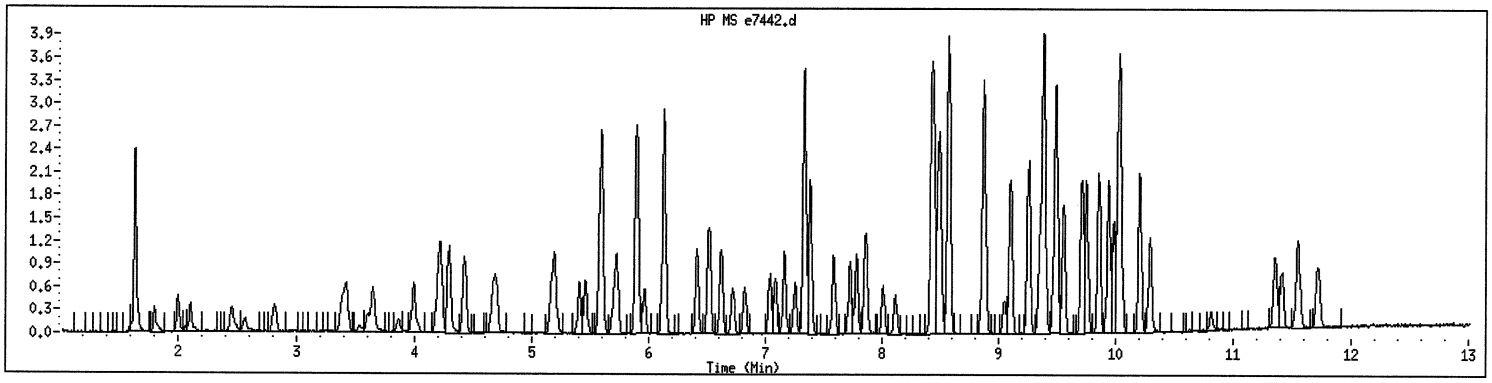
000043



Data file : /var/chem/msv5.i/2050220.s.b/e7442.d
Report Date: 02/20/2005 09:40

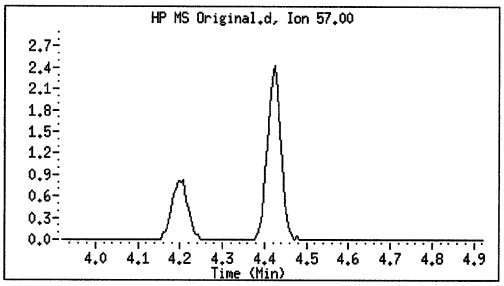
MANUAL INTEGRATION GRAPHIC REPORT

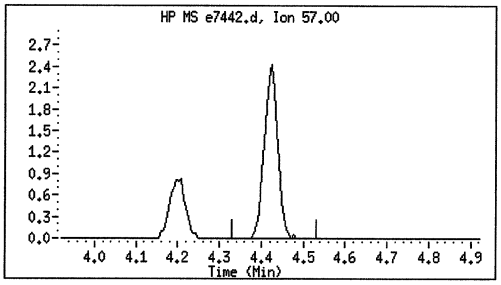
Lab ID	: 224409	SampleType	: LCS
Injection Date	: 20-FEB-2005 09:17	Instrument	: msv5.i
Operator	: RFS		
Sample Info	: 224409*LCS for HBN 287758		
Misc Info	: MSV~5840~*1*RFS		
Method	: /var/chem/msv5.i/2050220.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original | Final

24 Hexane CAS#: 110-54-3





2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	05283EB1W050217	108		109		111		109		0
2.	05283EB2W050217	105		106		111		106		0
3.	LCS224409	106		108		109		107		0
4.	MB224410	106		106		112		105		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	73 - 125
SMC 3	Toluene-d8	78 - 127
SMC 4	1,2-Dichloroethane-d4	70 - 123

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	05283SCS050217	81		91		108		75		0
2.	LCSD224394	74		77		82		74		0
3.	LCS224393	85		87		94		81		0
4.	MB224392	90		98		110		91		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	61 - 125
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	62 - 139
SMC 4	1,2-Dichloroethane-d4	60 - 140

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Matrix Spike - EPA Sample No: 86-NG-24S-Q1-05

Analytical Batch: 287758

SAMPLE NO. : 20502180111

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
Benzene	ug/L	25	0	27.2	109		77 - 119
Ethylbenzene	ug/L	25	0	27.8	111		76 - 118
Toluene	ug/L	25	0	27	108		78 - 114
Xylene (total)	ug/L	75	0	82.3	110		77 - 119
tert-Butyl methyl ether (MTBE)	ug/L	25	0	30.2	121		61 - 135

SAMPLE NO. : 20502180112

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/L	25	24	96		13	*	77 - 119	0 - 11
Ethylbenzene	ug/L	25	23.9	96		15		76 - 118	0 - 30
Toluene	ug/L	25	23.2	93		15	*	78 - 114	0 - 13
Xylene (total)	ug/L	75	72.5	97		13		77 - 119	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	25	27.5	110		9		61 - 135	0 - 30

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

* Values outside of QC limits

RPD : 2 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Analytical Batch: 287758

SAMPLE NO. : 224409

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/L	25	0	27.2	109		77 - 119
Ethylbenzene	ug/L	25	0	27.9	112		76 - 118
Toluene	ug/L	25	0	26.8	107		78 - 114
Xylene (total)	ug/L	75	0	82.7	110		77 - 119
tert-Butyl methyl ether (MTBE)	ug/L	25	0	28	112		61 - 135

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 5 outside limits

FORM III VOA-1

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8260

Analytical Batch: 287754

SAMPLE NO : 224393

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	25	0	25.6	102		77 - 126
Ethylbenzene	ug/kg	25	0	26.1	104		80 - 137
Toluene	ug/kg	25	0	26.4	106		76 - 124
Xylene (total)	ug/kg	75	0	79.5	106		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	24	96		70 - 130

SAMPLE NO : 224394

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	25	25.1	100		2		77 - 126	0 - 21
Ethylbenzene	ug/kg	25	25.5	102		2		80 - 137	0 - 30
Toluene	ug/kg	25	25.8	103		2		76 - 124	0 - 21
Xylene (total)	ug/kg	75	76.4	102		4		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	25	23.4	94		3		70 - 130	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB224392

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050219P/U0260

Lab Sample ID: 224392 Date Extracted:

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

Date Analyzed: 02/19/05 Time: 1433

Instrument ID: MSV0 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 287754

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS224393	224393	2050219P/U0258	02/19/05	1350
2.	LCSD224394	224394	2050219P/U0259	02/19/05	1412
3.	05283SCS050217	20502180501	2050219P/U0268	02/19/05	1725

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB224410

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050220/E7443

Lab Sample ID: 224410 Date Extracted:

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

Date Analyzed: 02/20/05 Time: 0941

Instrument ID: MSV5 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 287758

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS224409	224409	2050220/E7442	02/20/05	0917
2.	05283EB1W050217	20502180502	2050220/E7457	02/20/05	1519
3.	05283EB2W050217	20502180503	2050220/E7458	02/20/05	1542

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050214P/U0139

BFB Injection Date: 02/14/05

Instrument ID: MSV0

BFB Injection Time: 1147

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

Analytical Batch: 287608

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	25.61	(	)	
75	30.0 - 60.0% of mass 95	48.92	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.85	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	79.74	(	)	
175	5.0 - 9.0% of mass 174	7.07	(8.87	)	1
176	95.0 - 101.0% of mass 174	76.59	(96.06	)	1
177	5.0 - 9.0% of mass 176	4.94	(6.45	)	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.	V0STD002	1206	2050214P/U0141	02/14/05	1229
2.	V0STD005	1201	2050214P/U0142	02/14/05	1250
3.	V0STD020	1202	2050214P/U0143	02/14/05	1311
4.	V0STD050	1203	2050214P/U0144	02/14/05	1333
5.	V0STD100	1204	2050214P/U0145	02/14/05	1354
6.	V0STD200	1205	2050214P/U0146	02/14/05	1415
7.	V0ICV050	1600	2050214P/U0148	02/14/05	1603

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050219P/U0254

BFB Injection Date: 02/19/05

Instrument ID: MSV0

BFB Injection Time: 1139

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

Analytical Batch: 287754

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	25.27	(	)	
75	30.0 - 60.0% of mass 95	47.2	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.68	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	80.81	(	)	
175	5.0 - 9.0% of mass 174	6.41	(7.94	)	1
176	95.0 - 101.0% of mass 174	76.8	(95.05	)	1
177	5.0 - 9.0% of mass 176	5.07	(6.61	)	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.	V0STD050	1400	2050219P/U0255	02/19/05	1208
2.	V0APSTD050	1400	2050219P/U0256	02/19/05	1246
3.	LCS224393	224393	2050219P/U0258	02/19/05	1350
4.	LCSD224394	224394	2050219P/U0259	02/19/05	1412
5.	MB224392	224392	2050219P/U0260	02/19/05	1433
6.	05283SCS050217	20502180501	2050219P/U0268	02/19/05	1725

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050219/E7410

BFB Injection Date: 02/19/05

Instrument ID: MSV5

BFB Injection Time: 0822

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

Analytical Batch: 287753

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	18.81	(	)	
75	30.0 - 60.0% of mass 95	43.42	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.11	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	73.1	(	)	
175	5.0 - 9.0% of mass 174	4.26	(5.83	)	1
176	95.0 - 101.0% of mass 174	71.94	(98.42	)	1
177	5.0 - 9.0% of mass 176	4.06	(5.65	)	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.	V5STD0.50	1207	2050219/E7411	02/19/05	0907
2.	V5STD002	1206	2050219/E7412	02/19/05	0931
3.	V5STD005	1201	2050219/E7413	02/19/05	0955
4.	V5STD020	1202	2050219/E7414	02/19/05	1019
5.	V5STD050	1203	2050219/E7415	02/19/05	1147
6.	V5STD100	1204	2050219/E7416	02/19/05	1217
7.	V5STD200	1205	2050219/E7417	02/19/05	1240
8.	8260ICV	1600	2050219/E7419	02/19/05	1337

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID: 2050220/E7440

BFB Injection Date: 02/20/05

Instrument ID: MSV5

BFB Injection Time: 0815

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

Analytical Batch: 287758

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	18.61	(	)	
75	30.0 - 60.0% of mass 95	40.56	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.01	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	69.46	(	)	
175	5.0 - 9.0% of mass 174	5.26	(7.58	)	1
176	95.0 - 101.0% of mass 174	68.24	(98.25	)	1
177	5.0 - 9.0% of mass 176	4.82	(7.07	)	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	2050220/E7441	02/20/05	0843
2.	LCS224409	224409	2050220/E7442	02/20/05	0917
3.	MB224410	224410	2050220/E7443	02/20/05	0941
4.	05283EB1W050217	20502180502	2050220/E7457	02/20/05	1519
5.	05283EB2W050217	20502180503	2050220/E7458	02/20/05	1542

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

000056

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / A / b	B / m	C	FIT	TYPE
Acetone	5758	17430	40820	80250	146800	4010				4.406	-0.01	4.152	0.999	Q
Acrolein	0.036	0.037	0.035	0.035	0.036	0.026				0.034			12.44	A
Acrylonitrile	0.128	0.131	0.126	0.120	0.110	0.111				0.121			7.390	A
Benzal chloride	896	6183	19817	53915	128709					0.159	0.283		0.997	L
Bromochloromethane	0.108	0.125	0.117	0.116	0.112					0.115			5.525	A
Bromodichloromethane	0.305	0.325	0.312	0.321	0.343	0.269				0.312			7.920	A
Bromoform	0.321	0.404	0.431	0.443	0.433					0.406			12.28	A
Bromomethane	6946	23980	53100	93180	144400	3265				1.112	0.077	9.737	0.995	Q
Carbon disulfide	1.415	1.348	1.223	1.170	1.270	1.270				1.283			6.819	A
Carbon tetrachloride	0.274	0.286	0.279	0.287	0.306	0.250				0.280			6.578	A
Chloroethane	0.262	0.277	0.261	0.257	0.202	0.225				0.248			11.32	A
m,p-Xylene	1.190	1.241	1.220	1.235	1.264	1.116				1.211			4.362	A
Chloroform	0.449	0.454	0.440	0.440	0.465	0.415				0.444			3.854	A
Chloromethane	0.585	0.580	0.559	0.571	0.572	0.659				0.588			6.121	A
Dibromochloromethane	0.537	0.582	0.580	0.603	0.611	0.471				0.564			9.291	A
Dibromomethane	0.128	0.145	0.145	0.148	0.155					0.144			6.710	A
Dichlorodifluoromethane	0.361	0.385	0.417	0.455	0.492	0.348				0.410			13.67	A
1,1-Dichloroethane	0.551	0.579	0.545	0.544	0.596	0.515				0.555			5.158	A
1,2-Dichloroethane	0.307	0.322	0.328	0.329	0.328	0.272				0.314			7.071	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

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

000057

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
cis-1,2-Dichloroethene	0.444	0.494	0.481	0.503	0.521	0.387				0.472			10.36	A
trans-1,2-Dichloroethene	0.489	0.504	0.473	0.452	0.447	0.421				0.464			6.516	A
Methylene chloride	0.661	0.605	0.548	0.508	0.490					0.563			12.55	A
1,2-Dichloropropane	0.330	0.330	0.335	0.340	0.356	0.283				0.329			7.397	A
cis-1,3-Dichloropropene	0.404	0.436	0.440	0.455	0.484	0.350				0.428			10.83	A
trans-1,3-Dichloropropene	0.856	0.979	0.986	0.990	1.016	0.808				0.939			9.098	A
Ethylbenzene	0.931	1.002	0.954	0.966	0.992	0.872				0.953			4.962	A
Ethyl methacrylate	0.817	0.956	1.014	1.029	1.019					0.967			9.166	A
2-Hexanone	0.510	0.619	0.671	0.691	0.638					0.626			11.27	A
Isobutyl alcohol	0.073	0.080	0.080	0.088	0.083					0.081			6.795	A
Isopropylbenzene (Cumene)	2.733	3.140	3.223	3.240	3.258	2.553				3.025			10.03	A
2-Butanone	0.225	0.211	0.215	0.220	0.205					0.215			3.611	A
Methyl iodide	0.295	0.341	0.345	0.349	0.402	0.312				0.341			10.76	A
4-Methyl-2-pentanone	0.317	0.348	0.352	0.363	0.378	0.285				0.340			9.894	A
n-Propylbenzene	4.260	4.597	4.332	4.476	4.617	3.944				4.371			5.779	A
Styrene	1.926	2.213	2.241	2.266	2.280	1.755				2.114			10.38	A
Tetrachloroethene	0.436	0.491	0.492	0.496	0.503	0.440				0.476			6.242	A
1,1,1,2-Tetrachloroethane	0.530	0.581	0.568	0.582	0.577	0.455				0.549			9.117	A
1,1,2,2-Tetrachloroethane	0.827	0.840	0.776	0.793	0.807	0.724				0.795			5.227	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

000058

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,2,4-Trichlorobenzene	0.825	0.874	0.920	0.934	0.998	0.792				0.891			8.505	A
1,1,1-Trichloroethane	0.349	0.373	0.368	0.371	0.392	0.341				0.366			5.026	A
1,1,2-Trichloroethane	0.487	0.520	0.525	0.534	0.528	0.461				0.509			5.640	A
Trichlorofluoromethane	0.447	0.458	0.432	0.468	0.521	0.397				0.454			9.039	A
1,2,3-Trichloropropane	0.954	1.036	1.00	1.010	1.002	0.881				0.981			5.647	A
1,2,4-Trimethylbenzene	2.667	2.956	2.825	2.830	2.906	2.476				2.777			6.378	A
1,3,5-Trimethylbenzene	2.618	2.876	2.696	2.779	2.870	2.360				2.700			7.186	A
Vinyl chloride	0.528	0.545	0.566	0.591	0.558	0.478				0.544			7.157	A
o-Xylene	1.092	1.236	1.258	1.273	1.280	0.951				1.182			11.22	A
Chloroprene	0.432	0.480	0.486	0.499	0.503					0.480			5.924	A
1,2-Dibromo-3-chloropropane	604	4432	14088	29879	68140					0.152	0.037		0.999	L
1,2-Dibromoethane	0.460	0.500	0.507	0.516	0.525	0.393				0.484			10.29	A
Methyl methacrylate	0.346	0.413	0.437	0.433	0.474					0.420			11.20	A
Propiontrile	0.035	0.042	0.044	0.043	0.046					0.042			9.311	A
Vinyl acetate	0.758	0.754	0.650	0.660	0.803	0.683				0.718			8.656	A
tert-Butyl methyl ether (MTBE)	0.745	0.762	0.751	0.720	0.707	0.670				0.726			4.707	A
1,2-Dichloroethene	0.466	0.499	0.477	0.478	0.484	0.404				0.468			7.084	A
4-Isopropyltoluene	2.860	3.114	3.015	3.014	3.116	2.705				2.971			5.391	A
Xylene (total)	1.157	1.240	1.233	1.247	1.270	1.061				1.201			6.547	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

000059

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,4 Dioxane	595	3595	11555	24335	54220					0.002	2.274		0.999	L
1,3-Butadiene	0.332	0.326	0.314	0.350	0.311					0.327			4.789	A
Methylcyclohexane	0.433	0.460	0.443	0.456	0.479	0.379				0.441			7.813	A
n-Hexane	0.556	0.560	0.531	0.490	0.480	0.625				0.540			9.801	A
trans-1,4-Dichloro-2-butene	0.107	0.107	0.112	0.112	0.110	0.00				0.110			2.203	A
Cyclohexane	0.536	0.569	0.561	0.559	0.608	0.495				0.555			6.762	A
1,5-Cyclooctadiene	1.068	1.195	1.265	1.355	0.00					1.221			9.920	A
2,2-Dichloropropane	0.363	0.370	0.342	0.350	0.373	0.276				0.346			10.50	A
Diethyl ether	0.257	0.274	0.275	0.244	0.218					0.254			9.298	A
Cyclohexanone	2313	12643	38240	74046	185142					0.185	0.126		0.994	L
Methyl Acetate	0.271	0.234	0.227	0.212	0.194					0.228			12.54	A
Trichlorotrifluoroethane	0.309	0.336	0.310	0.301	0.344	0.274				0.312			8.077	A
1,1-Dichloropropene	0.344	0.374	0.364	0.368	0.387	0.302				0.357			8.442	A
2-Chloroethylvinyl ether	2558	10869	24209	41669	84880					0.082	-0.186		0.995	L
1,3-Dichloropropane	0.993	1.036	1.058	1.065	1.050	0.903				1.018			6.086	A
Bromobenzene	1.716	1.853	1.802	1.848	1.891	1.628				1.790			5.547	A
2-Chlorotoluene	2.706	2.881	2.699	2.786	2.842	2.478				2.732			5.272	A
4-Chlorotoluene	2.469	2.560	2.459	2.470	2.615	2.214				2.465			5.579	A
tert-Butylbenzene	1.605	1.930	1.820	1.860	1.922	1.498				1.773			10.11	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

000060

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
sec-Butylbenzene	3.702	3.998	3.814	3.794	3.956	3.495				3.793			4.803	A
1,3-Dichlorobenzene	1.683	1.643	1.559	1.583	1.625	1.471				1.594			4.681	A
1,4-Dichlorobenzene	1.702	1.644	1.589	1.561	1.597	1.643				1.623			3.113	A
n-Butylbenzene	3.086	3.266	3.243	3.208	3.327	3.039				3.195			3.459	A
1,2-Dichlorobenzene	1.457	1.487	1.455	1.464	1.491	1.448				1.467			1.212	A
Hexachlorobutadiene	0.364	0.413	0.415	0.420	0.460	0.324				0.399			11.98	A
Naphthalene	1.723	1.943	2.089	2.103	2.186	1.744				1.965			9.945	A
2,3-Dichloro-1-propene	0.459	0.509	0.533	0.551	0.564					0.523			7.904	A
Isopropyl Ether	1.417	1.562	1.594	1.615	1.514					1.541			5.104	A
1,2,3-Trichlorobenzene	0.697	0.806	0.848	0.847	0.892	0.703				0.799			10.19	A
Acetonitrile	0.054	0.056	0.054	0.047	0.048					0.052			7.660	A
Allyl chloride	0.353	0.363	0.360	0.351	0.338					0.353			2.762	A
1-Bromo-2-chloroethane	378	3121	7895	16730	40275					0.041	0.092		0.998	L
1-Chlorohexane	0.354	0.392	0.399	0.423	0.474	0.312				0.392			14.15	A
sec-Butanol	164	2537	8428	18834	41144					0.021	0.229		0.999	L
t-Butanol	173	2493	6738	13630	29326					0.029	0.042		0.999	L
Ethyl acetate	33077	135889	376285	714285	1608871					0.310	-0.240		0.996	L
n-Butyl alcohol	365	3597	11489	23472	54233					0.011	0.546		0.998	L
Pentachloroethane	0.157	0.171	0.186	0.196	0.225					0.187			13.88	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

000061

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date 1: 02/14/05 Time 1: 1229

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

Calibration Date 2: 02/19/05 Time 2: 0941

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 287752

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,3-Dichloropropylene	0.371	0.416	0.424	0.444	0.479	0.331				0.411			12.84	A
1-Nitropropane	0.059	0.071	0.080	0.083	0.088					0.076			14.91	A
2-Nitropropane	888	4864	13648	29837	66703					0.067	0.088		0.999	L
1,1-Dichloroethene	0.283	0.305	0.282	0.277	0.313	0.274				0.289			5.545	A
Benzene	1.186	1.255	1.210	1.232	1.284	1.175				1.224			3.404	A
Trichloroethene	0.241	0.250	0.255	0.257	0.268	0.228				0.250			5.575	A
Toluene	2.833	2.986	2.877	2.762	2.813	2.838				2.851			2.670	A
Chlorobenzene	1.812	1.776	1.698	1.705	1.739	1.849				1.763			3.401	A
4-Bromofluorobenzene	0.642	0.700	0.733	0.736	0.748					0.712			6.033	A
Dibromofluoromethane	0.268	0.282	0.276	0.273	0.279					0.276			1.883	A
Toluene-d8	2.189	2.292	2.162	2.055	2.148					2.169			3.926	A
1,2-Dichloroethane-d4	0.136	0.150	0.151	0.151	0.155					0.149			4.871	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

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0139.d
Lab Smp Id: 1000 Client Smp ID: V0BFB
Inj Date : 14-FEB-2005 11:47
Operator : KCB Inst ID: msv0.i
Smp Info : 1000*V0BFB
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/bfb0.m
Meth Date : 16-Jan-2005 08:40 rsp 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		
9.243	9.555	(0.000)	95	35714			100.00- 100.00	100.00
9.243	9.555	(0.000)	50	9145			15.00- 40.00	25.61
9.243	9.555	(0.000)	75	17473			30.00- 60.00	48.92
9.243	9.555	(0.000)	96	2446			5.00- 9.00	6.85
9.243	9.555	(0.000)	173	0			0.00- 2.00	0.00
9.243	9.555	(0.000)	174	28477			50.00- 99.99	79.74
9.243	9.555	(0.000)	175	2525			5.00- 9.00	8.87
9.243	9.555	(0.000)	176	27354			95.00- 101.00	96.06
9.243	9.555	(0.000)	177	1764			5.00- 9.00	6.45

Data File: /var/chem/msv0.i/2050214p.s.b/u0139.d

Date : 14-FEB-2005 11:47

Client ID: V0BFB

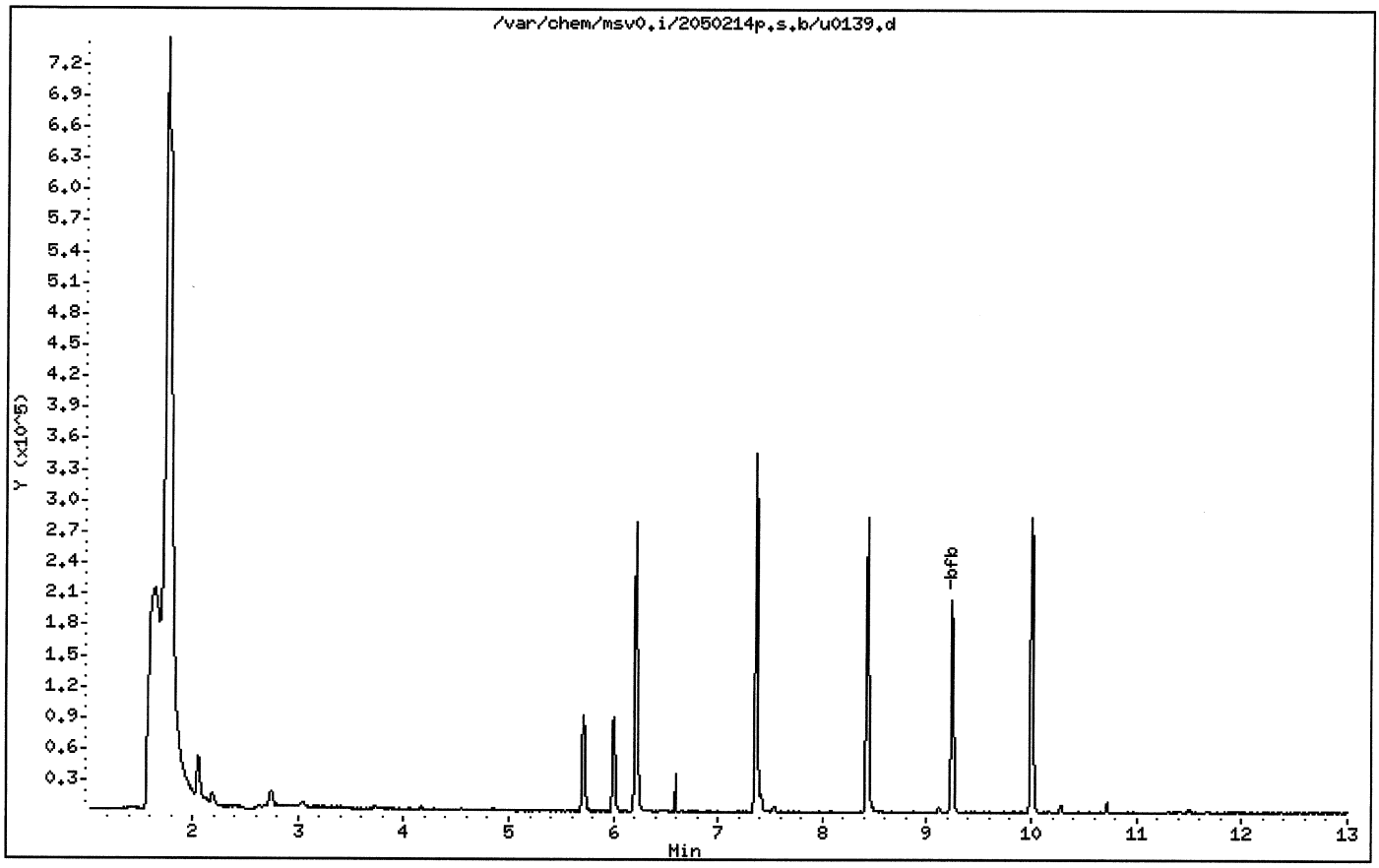
Instrument: msv0.i

Sample Info: 1000*V0BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv0.i/2050214p.s.b/u0139.d

Date : 14-FEB-2005 11:47

Client ID: V0BFB

Instrument: msv0.i

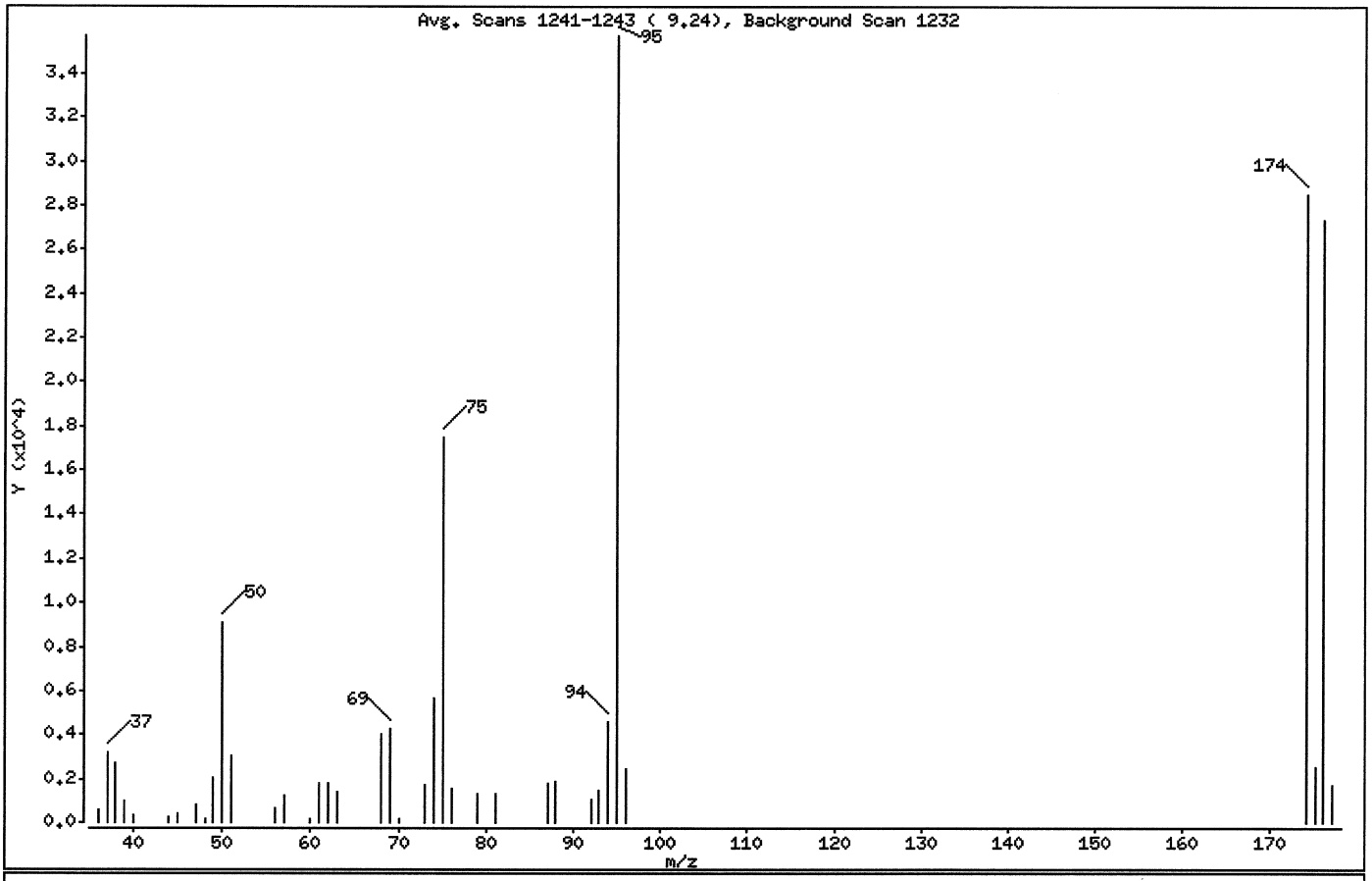
Sample Info: 1000*V0BFB

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	25.61
75	30.00 - 60.00% of mass 95	48.92
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	79.74
175	5.00 - 9.00% of mass 174	7.07 (8.87)
176	95.00 - 101.00% of mass 174	76.59 (96.06)
177	5.00 - 9.00% of mass 176	4.94 (6.45)

Data File: /var/chem/msv0.i/2050214p.s.b/u0139.d

Date : 14-FEB-2005 11:47

Client ID: V0BFB

Instrument: msv0.i

Sample Info: 1000*V0BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53

Data File: u0139.d
Spectrum: Avg. Scans 1241-1243 (9.24), Background Scan 1232
Location of Maximum: 95.00
Number of points: 38

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	591	50.00	9145	70.00	175	93.00	1453
37.00	3195	51.00	3055	73.00	1708	94.00	4589
38.00	2696	56.00	669	74.00	5658	95.00	35712
39.00	946	57.00	1215	75.00	17472	96.00	2446
40.00	334	60.00	151	76.00	1564	174.00	28472
44.00	218	61.00	1821	79.00	1346	175.00	2525
45.00	406	62.00	1819	81.00	1330	176.00	27352
47.00	799	63.00	1425	87.00	1784	177.00	1764
48.00	158	68.00	3992	88.00	1909		
49.00	2051	69.00	4231	92.00	1094		

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0142.d
Lab Smp Id: 1201 Client Smp ID: V0STD005
Inj Date : 14-FEB-2005 12:50
Operator : KCB Inst ID: msv0.i
Smp Info : 1201*V0STD005*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:44 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 12:50 Cal File: u0142.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.917	1.917	(0.309)	7779	5.00000	4.41	4164(a)
2 Chloromethane ++	50	2.122	2.122	(0.342)	12598	5.00000	4.98	6447
3 Vinyl Chloride +	62	2.234	2.234	(0.360)	11368	5.00000	4.85	6709
4 Bromomethane	94	2.604	2.604	(0.419)	6946	5.00000	6.16	6392
5 Chloroethane	64	2.723	2.723	(0.438)	5655	5.00000	5.30	4942
6 Trichlorofluoromethane	101	2.974	2.974	(0.479)	9631	5.00000	4.93	6253
7 Acrolein	56	3.569	3.569	(0.574)	3827	25.0000	26.0	6791
9 1,1,2Trichlotrifluoroethane	101	3.543	3.543	(0.570)	6651	5.00000	4.94	7266
8 1,1-Dichloroethene +	96	3.589	3.589	(0.578)	6093	5.00000	4.89	7270
10 Acetone	43	3.728	3.728	(0.600)	5758	5.00000	5.56	2167
11 Methyl Iodide	142	3.781	3.781	(0.609)	6349	5.00000	4.33	6480
12 Carbon Disulfide	76	3.814	3.814	(0.614)	30485	5.00000	5.52	8655
106 Methyl Acetate	43	4.038	4.038	(0.650)	5834	5.00000	5.95	0(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	13 Methylene Chloride	49	4.164	4.164	(0.670)	14248	5.00000	5.88	8379
	14 Acrylonitrile	53	4.468	4.468	(0.719)	13819	25.0000	26.5	6927
	15 trans-1,2-Dichloroethene	61	4.375	4.375	(0.704)	10539	5.00000	5.27	8204
	16 MTBE	73	4.356	4.356	(0.701)	16045	5.00000	5.13	7756
	17 Hexane	57	4.547	4.547	(0.732)	11978	5.00000	5.14	8488
	19 Vinyl Acetate	43	4.831	4.831	(0.778)	16326	5.00000	5.28	
	18 1,1-Dichloroethane ++	63	4.812	4.812	(0.774)	11874	5.00000	4.96	7960
	22 2-Butanone	43	5.347	5.347	(0.861)	4851	5.00000	5.23	
	21 cis-1,2-Dichloroethene	61	5.320	5.320	(0.856)	9558	5.00000	4.70	8418
	20 2,2-Dichloropropane	77	5.294	5.294	(0.852)	7819	5.00000	5.25	8395
	23 Bromochloromethane	128	5.532	5.532	(0.890)	2319	5.00000	4.67	7585
	24 Chloroform +	83	5.578	5.578	(0.898)	9672	5.00000	5.06	8758
$	25 Dibromofluoromethane	111	5.710	5.710	(0.919)	5777	5.00000	4.87	8790
	26 1,1,1-Trichloroethane	97	5.697	5.697	(0.917)	7510	5.00000	4.77	9041
	105 Cyclohexane	56	5.684	5.684	(0.915)	11542	5.00000	4.83	8591 (a)
	27 1,1-Dichloropropene	75	5.823	5.823	(0.937)	7412	5.00000	4.82	8823
	28 Carbon Tetrachloride	117	5.796	5.796	(0.933)	5904	5.00000	4.89	8763
$	32 1,2-Dichloroethane-d4	67	6.001	6.001	(0.966)	2936	5.00000	4.58	8969
	33 Benzene	78	5.988	5.988	(0.964)	25550	5.00000	4.85	8999
	34 1,2-Dichloroethane	62	6.061	6.061	(0.976)	6608	5.00000	4.88	0 (M)
*	35 FLUOROBENZENE	96	6.213	6.213	(1.000)	215440	50.0000		9677
	36 Trichloroethene	130	6.483	6.483	(1.044)	5201	5.00000	4.83	8531
	40 Methyl cyclohexane	83	6.569	6.569	(1.057)	9339	5.00000	4.91	9317 (a)
	37 1,2-Dichloropropane +	63	6.688	6.688	(1.077)	7111	5.00000	5.02	8897
M	31 Total 1,2-Dichloroethene	61				20097	10.0000	9.96	0
	38 Dibromomethane	93	6.787	6.787	(1.093)	2765	5.00000	4.45	8545
	39 Bromodichloromethane	83	6.880	6.880	(1.107)	6565	5.00000	4.88	8170
	42 1-Bromo-2-chloroethane	144	7.144	7.144	(1.150)	378	5.00000	6.74	0 (M)
	44 cis-1,3-Dichloropropene	75	7.204	7.204	(1.160)	8698	5.00000	4.71	
	45 4-methyl-2-pentanone	43	7.290	7.290	(1.173)	6835	5.00000	4.66	
$	46 Toluene-d8	98	7.362	7.362	(0.873)	18611	5.00000	5.05	9329
	47 Toluene +	91	7.415	7.415	(0.879)	24084	5.00000	4.97	9067
	50 1-Chlorohexane	91	8.373	8.373	(1.348)	7635	5.00000	4.51	924 (a)
	51 trans-1,3-Dichloropropene	75	7.613	7.613	(0.903)	7277	5.00000	4.56	
M	146 1-3 Dichloropropene-Total	100				15975	10.0000	9.03	0
	52 1,1,2-Trichloroethane	97	7.752	7.752	(0.919)	4137	5.00000	4.78	8192
	53 1,3-Dichloropropane	76	7.878	7.878	(0.934)	8445	5.00000	4.88	8539
	54 Tetrachloroethene	164	7.798	7.798	(0.925)	3710	5.00000	4.58	8911
	55 2-Hexanone	43	7.884	7.884	(0.935)	4338	5.00000	4.08	0 (M)
	56 Dibromochloromethane	129	8.030	8.030	(0.952)	4570	5.00000	4.76	8164
	57 1,2-Dibromoethane(EDB)	107	8.136	8.136	(0.965)	3910	5.00000	4.76	7374
*	58 Chlorobenzene-d5	82	8.433	8.433	(1.000)	85025	50.0000		8914
	59 Chlorobenzene ++	112	8.453	8.453	(1.002)	15405	5.00000	5.14	5590
	60 1,1,1,2-Tetrachloroethane	133	8.506	8.506	(1.009)	4504	5.00000	4.83	6630
	61 Ethylbenzene +	106	8.486	8.486	(1.006)	7918	5.00000	4.89	9372
	62 p,m-Xylene	106	8.565	8.565	(1.016)	20233	10.0000	9.83	9720
	63 o-Xylene	106	8.856	8.856	(1.050)	9284	5.00000	4.62	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	64 Styrene	104	8.869	8.869	(1.052)	16372	5.00000	4.56	9686
	65 Bromoform ++	173	9.054	9.054	(1.074)	2729	5.00000	3.95	8127
	66 Isopropylbenzene	105	9.087	9.087	(1.078)	23241	5.00000	4.52	9452
$	67 Bromofluorobenzene	174	9.246	9.246	(1.096)	5456	5.00000	4.51	8737
	68 1,1,2,2-Tetrachloroethane++	83	9.332	9.332	(0.933)	6226	5.00000	5.21	0 (M)
	69 trans-1,4-Dichloro-2-Butene	53	9.464	9.464	(0.946)	809	5.00000	4.90	8323 (a)
	70 1,2,3-Trichloropropane	75	9.378	9.378	(0.937)	7179	5.00000	4.86	7229
	71 Bromobenzene	77	9.358	9.358	(0.935)	12915	5.00000	4.79	7562
	72 n-Propylbenzene	91	9.358	9.358	(0.935)	32062	5.00000	4.87	8539
	73 2-Chlorotoluene	91	9.464	9.464	(0.946)	20365	5.00000	4.95	7288 (H)
	74 1,3,5-Trimethylbenzene	105	9.470	9.470	(0.946)	19702	5.00000	4.85	
	75 4-Chlorotoluene	91	9.536	9.536	(0.953)	18587	5.00000	5.01	9415
	76 tert-butylbenzene	91	9.688	9.688	(0.968)	12079	5.00000	4.53	9346
	77 1,2,4-Trimethylbenzene	105	9.728	9.728	(0.972)	20073	5.00000	4.80	
	78 sec-Butylbenzene	105	9.827	9.827	(0.982)	27863	5.00000	4.88	
	79 p-Isopropyltoluene	119	9.907	9.907	(0.990)	21529	5.00000	4.81	9391
	80 1,3-Dichlorobenzene	146	9.959	9.959	(0.995)	12669	5.00000	5.28	
*	81 1,4-DICHLOROBENZENE-D4	152	10.006	10.006	(1.000)	75269	50.0000		8281
	82 1,4-Dichlorobenzene	146	10.019	10.019	(1.001)	12807	5.00000	5.24	
	83 n-Butylbenzene	91	10.171	10.171	(1.016)	23225	5.00000	4.83	9504
	85 1,2-Dichlorobenzene	146	10.270	10.270	(1.026)	10967	5.00000	4.97	
	86 1,2-Dibromo-3-Chloropropane	157	10.785	10.785	(1.078)	604	5.00000	4.51	0 (M)
M	84 TOTAL XYLENE	106				29517	15.0000	14.4	0
	87 1,2,4-Trichlorobenzene	180	11.307	11.307	(1.130)	6208	5.00000	4.63	
	88 Hexachlorobutadiene	225	11.360	11.360	(1.135)	2737	5.00000	4.55	8302
	89 Napthalene	128	11.506	11.506	(1.150)	12967	5.00000	4.38	8499
	90 1,2,3-Trichlorobenzene	180	11.671	11.671	(1.166)	5245	5.00000	4.36	

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.

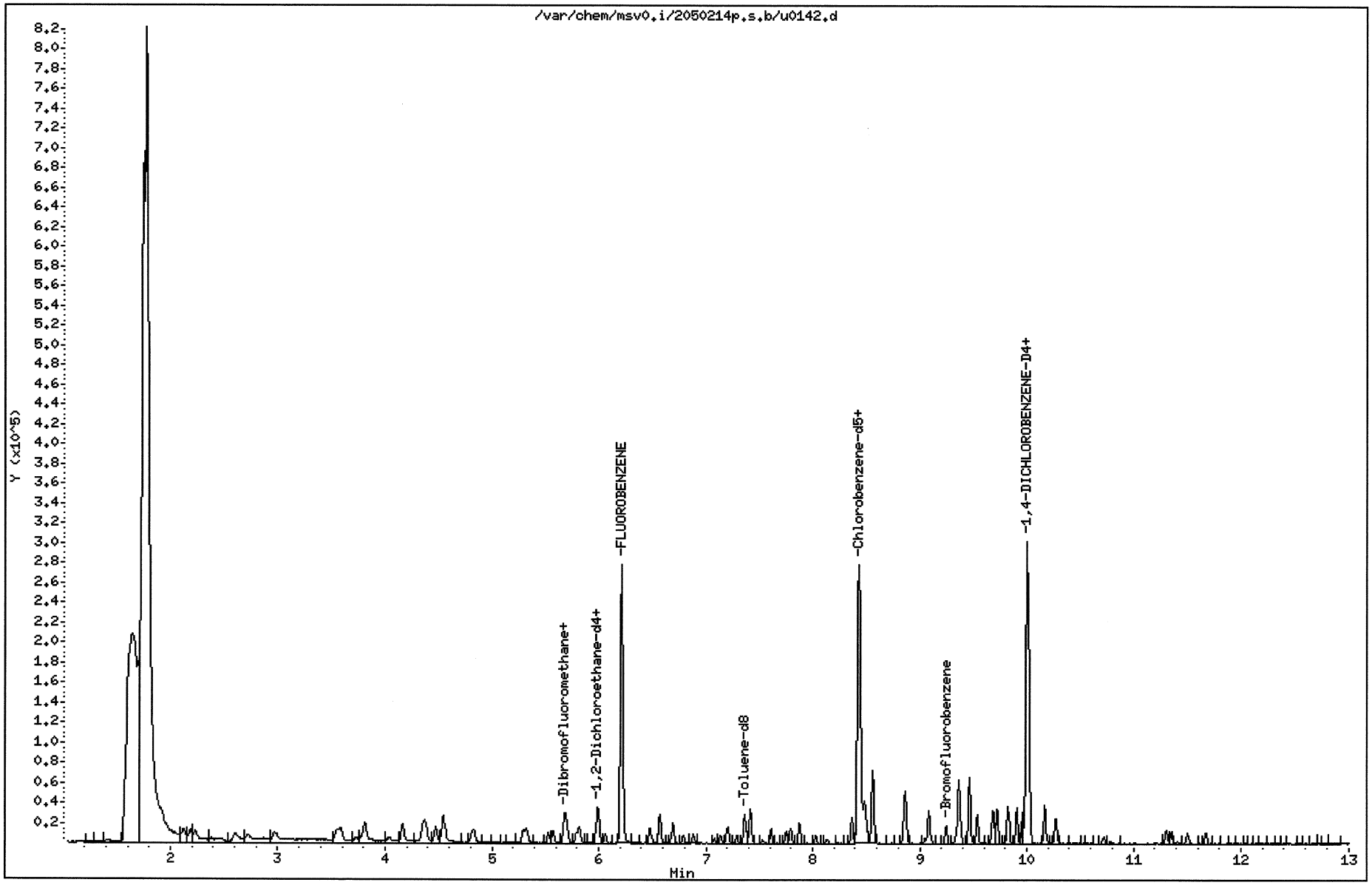
Data File: /var/chem/msv0.i/2050214p.s.b/u0142.d
Date : 14-FEB-2005 12:50
Client ID: VOSTD005
Sample Info: 1201*VOSTD005*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

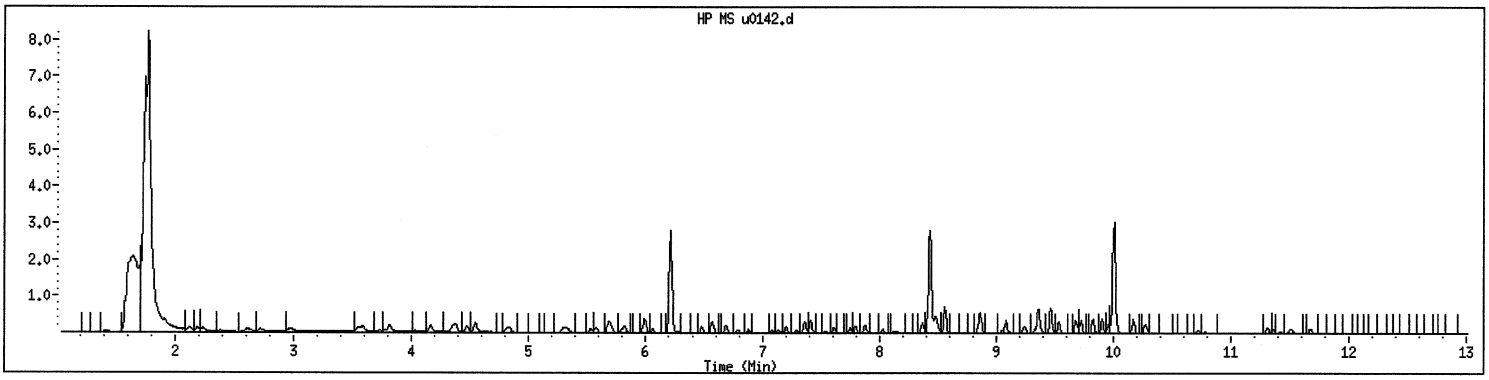
Operator: KCB
Column diameter: 0.53

000069



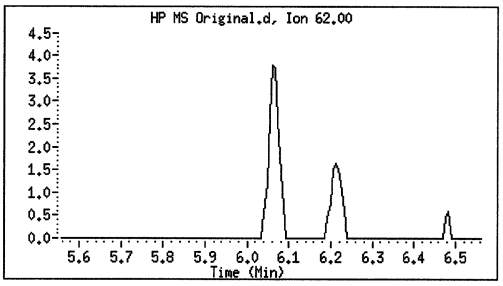
MANUAL INTEGRATION GRAPHIC REPORT

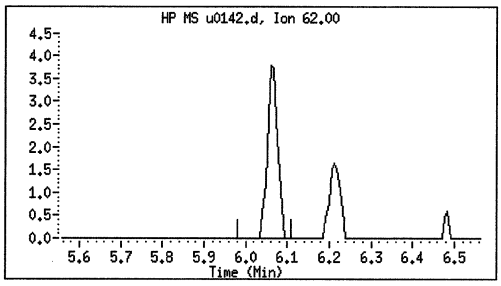
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 14-FEB-2005 12:50	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1201*V0STD005*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



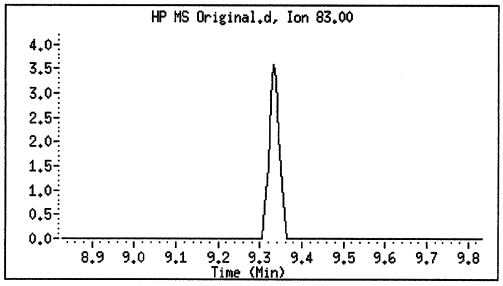
Original Final

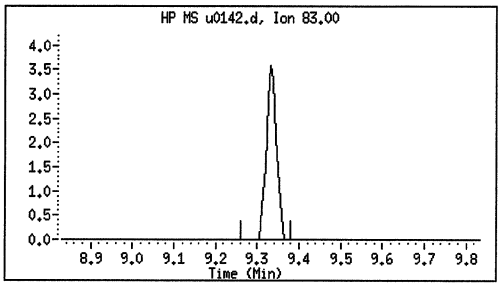
34 1,2-Dichloroethane CAS#: 107-06-2





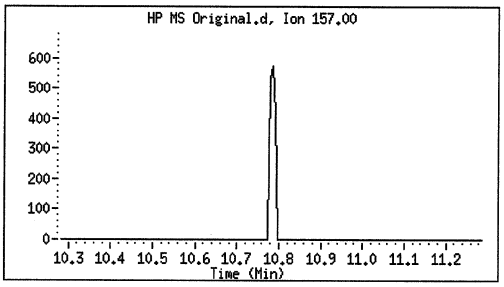
68 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5

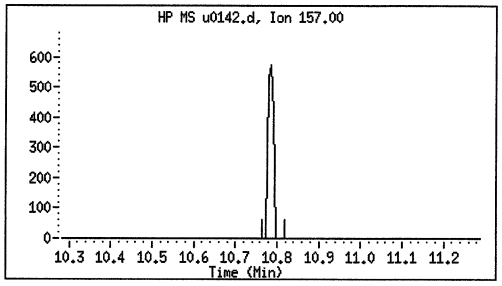




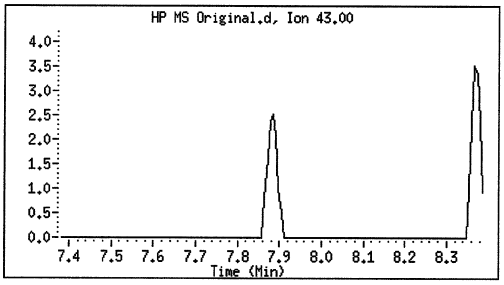
Original Final

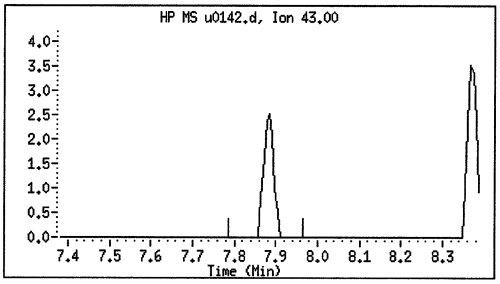
86 1,2-Dibromo-3-Chloropropane CAS#: 96-12-8



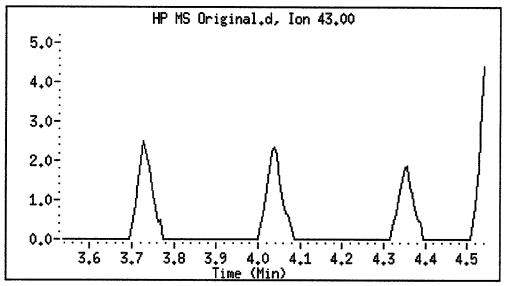


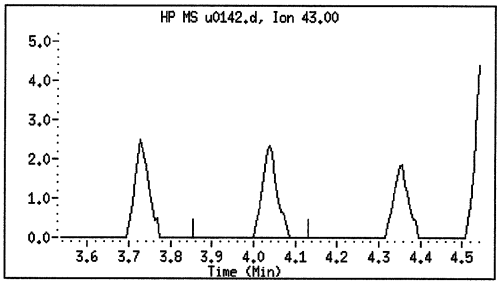
55 2-Hexanone CAS#: 591-78-6



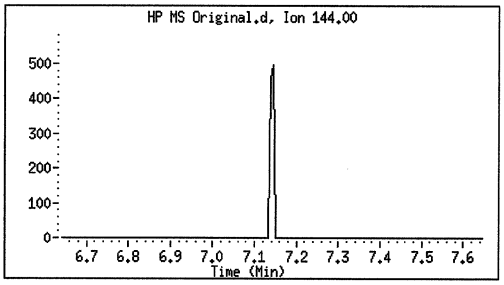


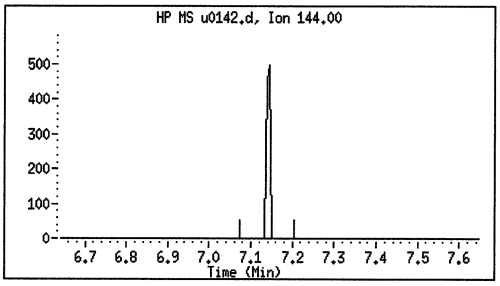
106 Methyl Acetate CAS#: 79-20-9





42 1-Bromo-2-chloroethane CAS#: 107-04-0





GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0143.d
Lab Smp Id: 1202 Client Smp ID: V0STD020
Inj Date : 14-FEB-2005 13:11
Operator : KCB Inst ID: msv0.i
Smp Info : 1202*V0STD020*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:44 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 13:11 Cal File: u0143.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.911	1.911	(0.308)	33571	20.0000	18.8	7386
2 Chloromethane ++	50	2.116	2.116	(0.341)	50541	20.0000	19.7	8687
3 Vinyl Chloride +	62	2.235	2.235	(0.360)	47467	20.0000	20.0	8880
4 Bromomethane	94	2.605	2.605	(0.419)	23980	20.0000	15.9	8699
5 Chloroethane	64	2.718	2.718	(0.437)	24139	20.0000	22.4	7758
6 Trichlorofluoromethane	101	2.975	2.975	(0.479)	39879	20.0000	20.2	8924
7 Acrolein	56	3.563	3.563	(0.574)	16261	100.000	109	8391
9 1,1,2Trichlotrifluoroethane	101	3.550	3.550	(0.571)	29297	20.0000	21.5	8811
8 1,1-Dichloroethene +	96	3.590	3.590	(0.578)	26538	20.0000	21.1	8479
10 Acetone	43	3.729	3.729	(0.600)	17429	20.0000	18.5	2337
11 Methyl Iodide	142	3.775	3.775	(0.608)	29744	20.0000	20.1	7619
12 Carbon Disulfide	76	3.815	3.815	(0.614)	117405	20.0000	21.0	8825
106 Methyl Acetate	43	4.039	4.039	(0.650)	20344	20.0000	20.5	9108

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	13 Methylene Chloride	49	4.165	4.165	(0.670)	52723	20.0000	21.5	9139
	14 Acrylonitrile	53	4.469	4.469	(0.719)	56969	100.000	108	7723
	15 trans-1,2-Dichloroethene	61	4.376	4.376	(0.704)	43917	20.0000	21.7	9226
	16 MTBE	73	4.350	4.350	(0.700)	66428	20.0000	21.0	9068
	17 Hexane	57	4.548	4.548	(0.732)	48773	20.0000	20.7	8972
	19 Vinyl Acetate	43	4.832	4.832	(0.778)	65676	20.0000	21.0	
	18 1,1-Dichloroethane ++	63	4.812	4.812	(0.775)	50481	20.0000	20.9	9285
	22 2-Butanone	43	5.341	5.341	(0.860)	18407	20.0000	19.6	
	21 cis-1,2-Dichloroethene	61	5.321	5.321	(0.856)	43066	20.0000	21.0	9608
	20 2,2-Dichloropropane	77	5.295	5.295	(0.852)	32237	20.0000	21.4	9673
	23 Bromochloromethane	128	5.533	5.533	(0.890)	10868	20.0000	21.6	8841
	24 Chloroform +	83	5.579	5.579	(0.898)	39581	20.0000	20.5	9545
$	25 Dibromofluoromethane	111	5.711	5.711	(0.919)	24554	20.0000	20.5	9627
	26 1,1,1-Trichloroethane	97	5.698	5.698	(0.917)	32533	20.0000	20.4	9149
	105 Cyclohexane	56	5.678	5.678	(0.914)	49564	20.0000	20.5	8368
	27 1,1-Dichloropropene	75	5.824	5.824	(0.937)	32622	20.0000	21.0	9780
	28 Carbon Tetrachloride	117	5.797	5.797	(0.933)	24937	20.0000	20.4	9336
$	32 1,2-Dichloroethane-d4	67	6.002	6.002	(0.966)	13050	20.0000	20.2	9190
	33 Benzene	78	5.989	5.989	(0.964)	109361	20.0000	20.5	9377
	34 1,2-Dichloroethane	62	6.061	6.061	(0.976)	28077	20.0000	20.5	8724
*	35 FLUOROBENZENE	96	6.213	6.213	(1.000)	217819	50.0000		9631
	36 Trichloroethene	130	6.484	6.484	(1.044)	21795	20.0000	20.0	9557
	40 Methyl cyclohexane	83	6.570	6.570	(1.057)	40039	20.0000	20.8	9657
	37 1,2-Dichloropropane +	63	6.689	6.689	(1.077)	28721	20.0000	20.0	9349
M	31 Total 1,2-Dichloroethene	61				86983	40.0000	42.7	0
	38 Dibromomethane	93	6.788	6.788	(1.093)	12640	20.0000	20.1	9160
	39 Bromodichloromethane	83	6.881	6.881	(1.107)	28274	20.0000	20.8	9635
	41 2-Chloroethyl vinyl ether	63	7.079	7.079	(1.139)	10869	20.0000	21.1	7006(H)
	42 1-Bromo-2-chloroethane	144	7.139	7.139	(1.149)	3121	20.0000	22.2	9109
	44 cis-1,3-Dichloropropene	75	7.205	7.205	(1.160)	37994	20.0000	20.4	
	45 4-methyl-2-pentanone	43	7.291	7.291	(1.173)	30326	20.0000	20.5	
$	46 Toluene-d8	98	7.363	7.363	(0.873)	80781	20.0000	21.1	9681
	47 Toluene +	91	7.416	7.416	(0.879)	105237	20.0000	20.9	9488
	50 1-Chlorohexane	91	8.374	8.374	(1.348)	34163	20.0000	20.0	924
	51 trans-1,3-Dichloropropene	75	7.614	7.614	(0.903)	34482	20.0000	20.8	
M	146 1-3 Dichloropropene-Total	100				72476	40.0000	40.5	0
	52 1,1,2-Trichloroethane	97	7.753	7.753	(0.919)	18328	20.0000	20.4	9447
	53 1,3-Dichloropropane	76	7.879	7.879	(0.934)	36510	20.0000	20.4	9397
	54 Tetrachloroethene	164	7.799	7.799	(0.925)	17289	20.0000	20.6	9556
	55 2-Hexanone	43	7.879	7.879	(0.934)	21803	20.0000	19.8	5051
	56 Dibromochloromethane	129	8.031	8.031	(0.952)	20506	20.0000	20.6	9417
	57 1,2-Dibromoethane(EDB)	107	8.136	8.136	(0.965)	17616	20.0000	20.7	9050
*	58 Chlorobenzene-d5	82	8.434	8.434	(1.000)	88096	50.0000		9476
	59 Chlorobenzene ++	112	8.454	8.454	(1.002)	62599	20.0000	20.1	8688
	60 1,1,1,2-Tetrachloroethane	133	8.507	8.507	(1.009)	20460	20.0000	21.2	7209
	61 Ethylbenzene +	106	8.487	8.487	(1.006)	35325	20.0000	21.0	9698
	62 p,m-Xylene	106	8.566	8.566	(1.016)	87485	40.0000	41.0	9830

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	63 o-Xylene	106	8.857	8.857	(1.050)	43554	20.0000	20.9	
	64 Styrene	104	8.870	8.870	(1.052)	77987	20.0000	20.9	9568
	65 Bromoform ++	173	9.048	9.048	(1.073)	14245	20.0000	19.9	9195
	66 Isopropylbenzene	105	9.088	9.088	(1.078)	110631	20.0000	20.8	9784
$	67 Bromofluorobenzene	174	9.247	9.247	(1.096)	24652	20.0000	19.7	9761
	68 1,1,2,2-Tetrachloroethane++	83	9.333	9.333	(0.933)	27467	20.0000	21.1	5067
	69 trans-1,4-Dichloro-2-Butene	53	9.465	9.465	(0.946)	3502	20.0000	19.5	8458
	70 1,2,3-Trichloropropane	75	9.379	9.379	(0.937)	33880	20.0000	21.1	7135
	71 Bromobenzene	77	9.359	9.359	(0.935)	60582	20.0000	20.7	7547
	72 n-Propylbenzene	91	9.359	9.359	(0.935)	150319	20.0000	21.0	8550
	73 2-Chlorotoluene	91	9.465	9.465	(0.946)	94211	20.0000	21.1	7247 (H)
	74 1,3,5-Trimethylbenzene	105	9.465	9.465	(0.946)	94037	20.0000	21.3	
	75 4-Chlorotoluene	91	9.537	9.537	(0.953)	83702	20.0000	20.8	9778
	76 tert-butylbenzene	91	9.683	9.683	(0.968)	63126	20.0000	21.8	9607
	77 1,2,4-Trimethylbenzene	105	9.722	9.722	(0.972)	96674	20.0000	21.3	
	78 sec-Butylbenzene	105	9.828	9.828	(0.982)	130730	20.0000	21.1	
	79 p-Isopropyltoluene	119	9.907	9.907	(0.990)	101824	20.0000	21.0	9717
	80 1,3-Dichlorobenzene	146	9.960	9.960	(0.995)	53741	20.0000	20.6	
*	81 1,4-DICHLOROBENZENE-D4	152	10.007	10.007	(1.000)	81751	50.0000		9289
	82 1,4-Dichlorobenzene	146	10.020	10.020	(1.001)	53763	20.0000	20.3	
	83 n-Butylbenzene	91	10.172	10.172	(1.016)	106796	20.0000	20.4	9784
	85 1,2-Dichlorobenzene	146	10.271	10.271	(1.026)	48619	20.0000	20.3	
	86 1,2-Dibromo-3-Chloropropane	157	10.780	10.780	(1.077)	4432	20.0000	19.7	8452
M	84 TOTAL XYLENE	106				131039	60.0000	61.9	0
	87 1,2,4-Trichlorobenzene	180	11.308	11.308	(1.130)	28596	20.0000	19.6	
	88 Hexachlorobutadiene	225	11.355	11.355	(1.135)	13520	20.0000	20.7	9194
	89 Napthalene	128	11.507	11.507	(1.150)	63553	20.0000	19.8	9581
	90 1,2,3-Trichlorobenzene	180	11.672	11.672	(1.166)	26373	20.0000	20.2	

QC Flag Legend

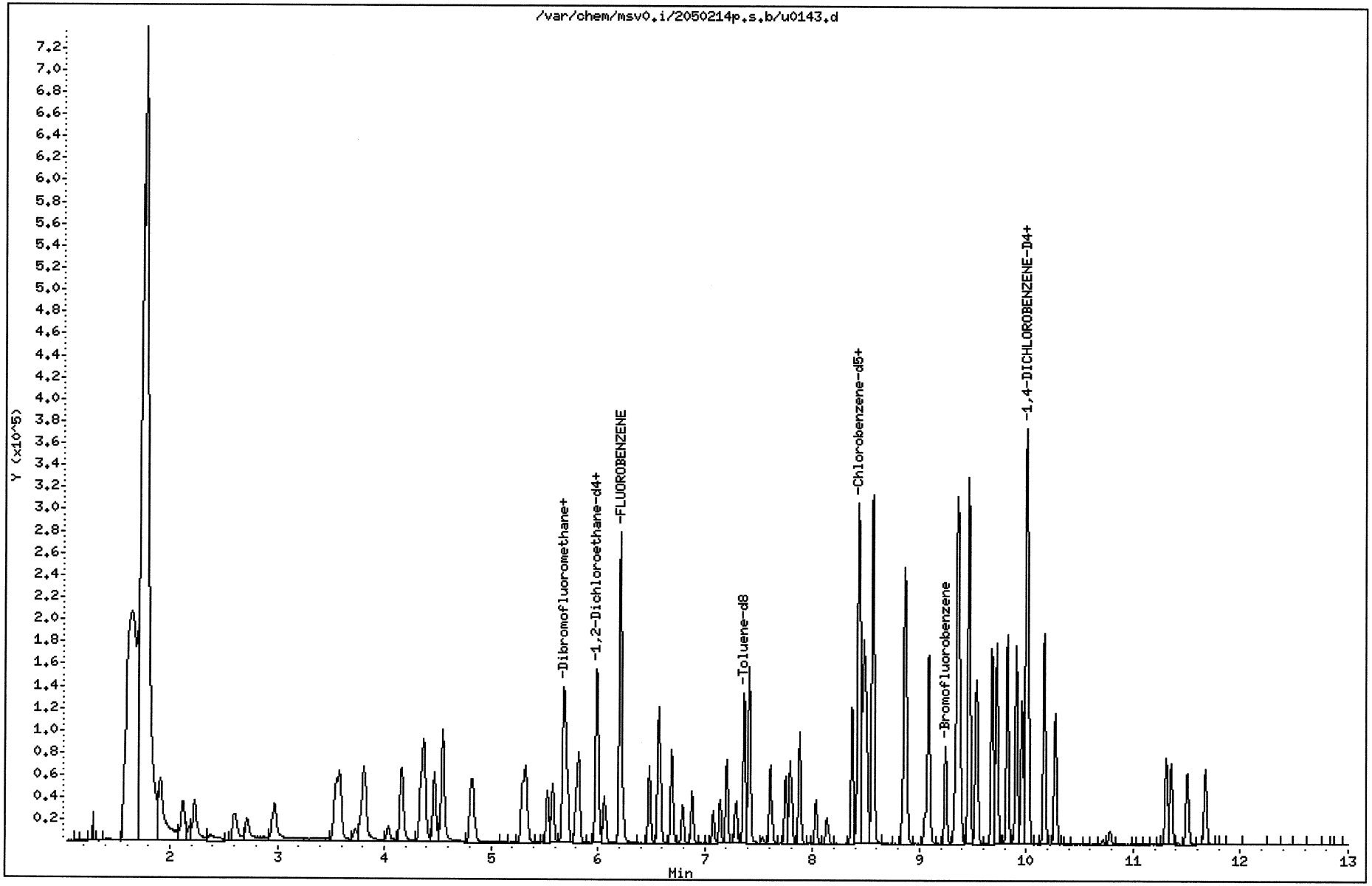
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2050214p.s.b/u0143.d
Date : 14-FEB-2005 13:11
Client ID: VOSTD020
Sample Info: 1202*VOSTD020*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

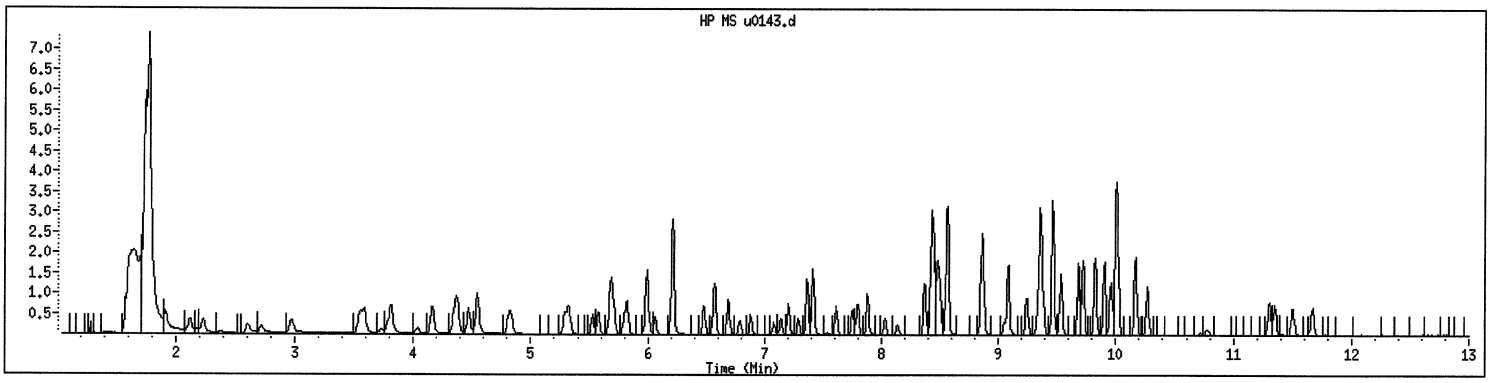


000075

Data file : /var/chem/msv0.i/2050214p.s.b/u0143.d
Report Date: 02/15/2005 17:44

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 14-FEB-2005 13:11	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1202*V0STD020*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0144.d
Lab Smp Id: 1203 Client Smp ID: V0STD050
Inj Date : 14-FEB-2005 13:33
Operator : KCB Inst ID: msv0.i
Smp Info : 1203*V0STD050*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:44 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 13:33 Cal File: u0144.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.914	1.914	(0.308)	92586	50.0000	50.9	9523
2 Chloromethane ++	50	2.119	2.119	(0.341)	124045	50.0000	47.6	8816
3 Vinyl Chloride +	62	2.231	2.231	(0.359)	125604	50.0000	52.0	9081
4 Bromomethane	94	2.601	2.601	(0.418)	53097	50.0000	45.0	9254
5 Chloroethane	64	2.714	2.714	(0.437)	57918	50.0000	52.7	8984
6 Trichlorofluoromethane	101	2.971	2.971	(0.478)	95854	50.0000	47.6	9477
7 Acrolein	56	3.560	3.560	(0.573)	38592	250.000	255	8941(A)
9 1,1,2Trichlotrifluoroethane	101	3.546	3.546	(0.571)	68789	50.0000	49.6	9010
8 1,1-Dichloroethene +	96	3.586	3.586	(0.577)	62610	50.0000	48.8	8584
10 Acetone	43	3.725	3.725	(0.599)	40818	50.0000	47.1	2413
11 Methyl Iodide	142	3.778	3.778	(0.608)	76531	50.0000	50.6	8012
12 Carbon Disulfide	76	3.811	3.811	(0.613)	271463	50.0000	47.7	8858
106 Methyl Acetate	43	4.035	4.035	(0.649)	50352	50.0000	49.9	9102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	13 Methylene Chloride	49	4.161	4.161	(0.669)	121516	50.0000	48.7	9304
	14 Acrylonitrile	53	4.472	4.472	(0.719)	139757	250.000	260	7762(A)
	15 trans-1,2-Dichloroethene	61	4.372	4.372	(0.703)	104955	50.0000	50.9	9401
	16 MTBE	73	4.353	4.353	(0.700)	166572	50.0000	51.7	8874
	17 Hexane	57	4.544	4.544	(0.731)	117929	50.0000	49.2	8988
	19 Vinyl Acetate	43	4.835	4.835	(0.778)	144338	50.0000	45.3	
	18 1,1-Dichloroethane ++	63	4.809	4.809	(0.774)	120992	50.0000	49.1	9368
	22 2-Butanone	43	5.344	5.344	(0.860)	47615	50.0000	49.8	
	21 cis-1,2-Dichloroethene	61	5.324	5.324	(0.856)	106742	50.0000	51.0	9318
	20 2,2-Dichloropropane	77	5.291	5.291	(0.851)	75927	50.0000	49.5	9515
	23 Bromochloromethane	128	5.529	5.529	(0.889)	25897	50.0000	50.6	8921
	24 Chloroform +	83	5.575	5.575	(0.897)	97720	50.0000	49.6	9753
$	25 Dibromofluoromethane	111	5.714	5.714	(0.919)	61133	50.0000	50.0	9305
	26 1,1,1-Trichloroethane	97	5.694	5.694	(0.916)	81726	50.0000	50.4	9097
	105 Cyclohexane	56	5.681	5.681	(0.914)	124586	50.0000	50.6	8670
	27 1,1-Dichloropropene	75	5.826	5.826	(0.937)	80780	50.0000	51.0	9533
	28 Carbon Tetrachloride	117	5.800	5.800	(0.933)	61997	50.0000	49.8	9131
$	32 1,2-Dichloroethane-d4	67	6.005	6.005	(0.966)	33400	50.0000	50.6	9397
	33 Benzene	78	5.992	5.992	(0.964)	268527	50.0000	49.4	9567
	34 1,2-Dichloroethane	62	6.064	6.064	(0.976)	72725	50.0000	52.1	8848
*	35 FLUOROBENZENE	96	6.216	6.216	(1.000)	221889	50.0000		9724
	36 Trichloroethene	130	6.481	6.481	(1.043)	56508	50.0000	51.0	9694
	40 Methyl cyclohexane	83	6.573	6.573	(1.057)	98257	50.0000	50.2	9648
	37 1,2-Dichloropropane +	63	6.692	6.692	(1.077)	74414	50.0000	51.0	9200
M	31 Total 1,2-Dichloroethene	61				211697	100.000	102	0
	38 Dibromomethane	93	6.791	6.791	(1.092)	32183	50.0000	50.3	9351
	39 Bromodichloromethane	83	6.884	6.884	(1.107)	69338	50.0000	50.0	9678
	41 2-Chloroethyl vinyl ether	63	7.082	7.082	(1.139)	24209	50.0000	57.2	7080(H)
	42 1-Bromo-2-chloroethane	144	7.141	7.141	(1.149)	7895	50.0000	48.4	9349
	44 cis-1,3-Dichloropropene	75	7.207	7.207	(1.159)	97627	50.0000	51.4	
	45 4-methyl-2-pentanone	43	7.293	7.293	(1.173)	78029	50.0000	51.7	
$	46 Toluene-d8	98	7.366	7.366	(0.874)	198223	50.0000	49.8	9751
	47 Toluene +	91	7.412	7.412	(0.879)	263725	50.0000	50.4	9454
	50 1-Chlorohexane	91	8.370	8.370	(1.347)	88643	50.0000	50.9	3827
	51 trans-1,3-Dichloropropene	75	7.611	7.611	(0.903)	90431	50.0000	52.5	
M	146 1-3 Dichloropropene-Total	100				188058	100.000	103	0
	52 1,1,2-Trichloroethane	97	7.756	7.756	(0.920)	48116	50.0000	51.5	9383
	53 1,3-Dichloropropane	76	7.881	7.881	(0.935)	97017	50.0000	52.0	9538
	54 Tetrachloroethene	164	7.796	7.796	(0.925)	45058	50.0000	51.6	9600
	55 2-Hexanone	43	7.881	7.881	(0.935)	61543	50.0000	53.6	5156
	56 Dibromochloromethane	129	8.033	8.033	(0.953)	53194	50.0000	51.4	9530
	57 1,2-Dibromoethane(EDB)	107	8.139	8.139	(0.966)	46505	50.0000	52.5	9650
*	58 Chlorobenzene-d5	82	8.430	8.430	(1.000)	91675	50.0000		9537
	59 Chlorobenzene ++	112	8.456	8.456	(1.003)	155701	50.0000	48.2	9617
	60 1,1,1,2-Tetrachloroethane	133	8.509	8.509	(1.009)	52031	50.0000	51.7	6715
	61 Ethylbenzene +	106	8.483	8.483	(1.006)	87443	50.0000	50.1	9370
	62 p,m-Xylene	106	8.562	8.562	(1.016)	223715	100.000	101	9805

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	63 o-Xylene	106	8.860	8.860	(1.051)	115319	50.0000	53.2	
	64 Styrene	104	8.873	8.873	(1.053)	205418	50.0000	53.0	9367
	65 Bromoform ++	173	9.051	9.051	(1.074)	39471	50.0000	53.0	9568
	66 Isopropylbenzene	105	9.084	9.084	(1.078)	295480	50.0000	53.3	9754
$	67 Bromofluorobenzene	174	9.243	9.243	(1.096)	67181	50.0000	51.5	9717
	68 1,1,2,2-Tetrachloroethane++	83	9.335	9.335	(0.933)	72429	50.0000	48.9	5652
	69 trans-1,4-Dichloro-2-Butene	53	9.467	9.467	(0.946)	10421	50.0000	50.9	8574
	70 1,2,3-Trichloropropane	75	9.382	9.382	(0.938)	93291	50.0000	51.0	6722
	71 Bromobenzene	77	9.362	9.362	(0.936)	168161	50.0000	50.4	7620
	72 n-Propylbenzene	91	9.362	9.362	(0.936)	404182	50.0000	49.6	8490
	73 2-Chlorotoluene	91	9.467	9.467	(0.946)	251771	50.0000	49.4	7156(H)
	74 1,3,5-Trimethylbenzene	105	9.467	9.467	(0.946)	251523	50.0000	49.9	
	75 4-Chlorotoluene	91	9.534	9.534	(0.953)	229457	50.0000	49.9	9761
	76 tert-butylbenzene	91	9.686	9.686	(0.968)	169778	50.0000	51.3	9726
	77 1,2,4-Trimethylbenzene	105	9.725	9.725	(0.972)	263579	50.0000	50.9	
	78 sec-Butylbenzene	105	9.824	9.824	(0.982)	355838	50.0000	50.3	
	79 p-Isopropyltoluene	119	9.910	9.910	(0.991)	281345	50.0000	50.8	9792
	80 1,3-Dichlorobenzene	146	9.963	9.963	(0.996)	145440	50.0000	48.9	
*	81 1,4-DICHLOROBENZENE-D4	152	10.003	10.003	(1.000)	93300	50.0000		9660
	82 1,4-Dichlorobenzene	146	10.023	10.023	(1.002)	148253	50.0000	49.0	
	83 n-Butylbenzene	91	10.168	10.168	(1.016)	302600	50.0000	50.8	9743
	85 1,2-Dichlorobenzene	146	10.274	10.274	(1.027)	135715	50.0000	49.6	
	86 1,2-Dibromo-3-Chloropropane	157	10.783	10.783	(1.078)	14088	50.0000	51.6	9398
M	84 TOTAL XYLENE	106				339034	150.000	154	0
	87 1,2,4-Trichlorobenzene	180	11.311	11.311	(1.131)	85865	50.0000	51.7	
	88 Hexachlorobutadiene	225	11.357	11.357	(1.135)	38714	50.0000	51.9	9417
	89 Napthalene	128	11.503	11.503	(1.150)	194901	50.0000	53.2	9647
	90 1,2,3-Trichlorobenzene	180	11.675	11.675	(1.167)	79165	50.0000	53.1	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

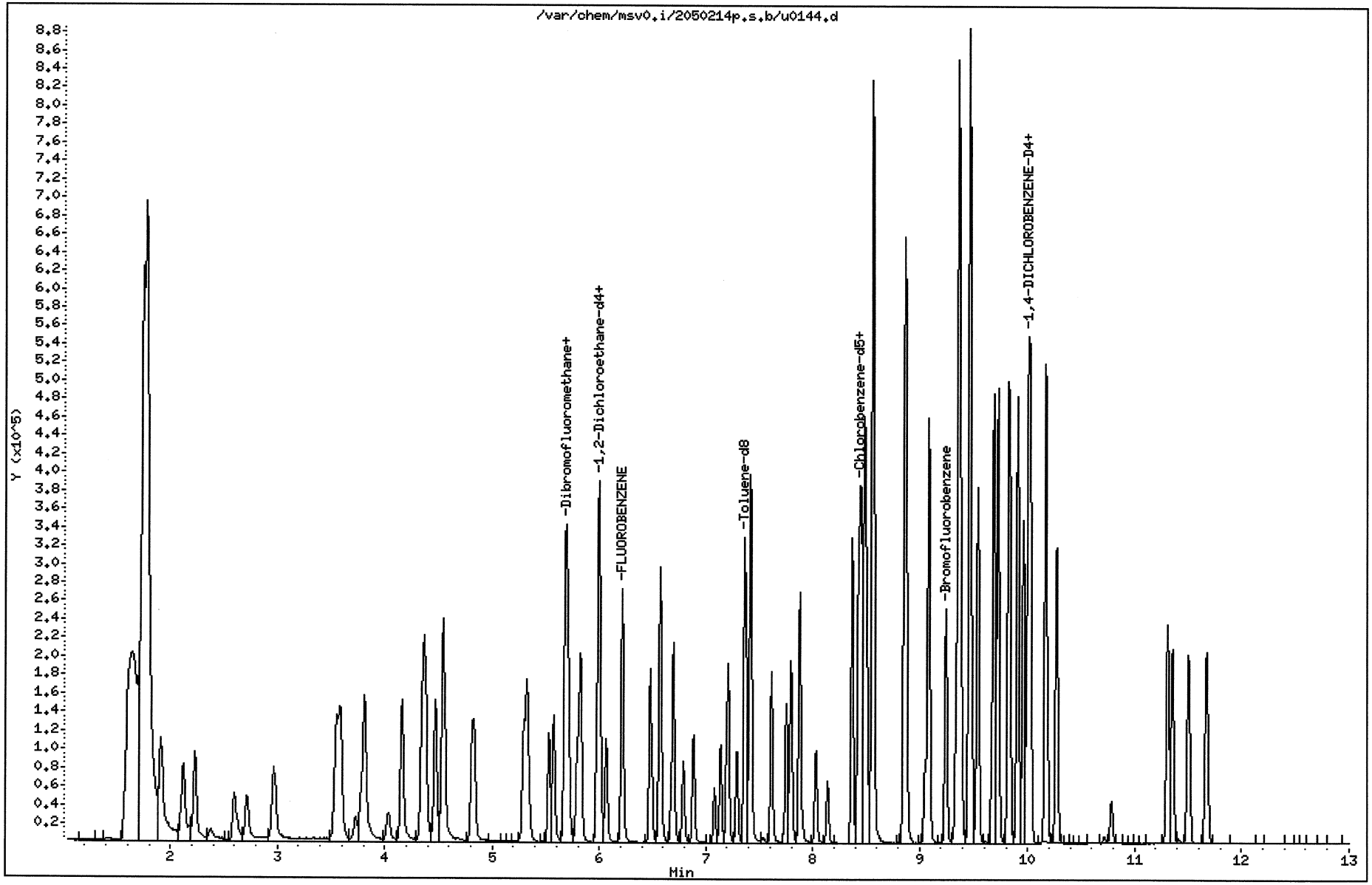
Data File: /var/chem/msv0.i/2050214p.s.b/u0144.d
Date : 14-FEB-2005 13:33
Client ID: VOSTD050
Sample Info: 1203*VOSTD050*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

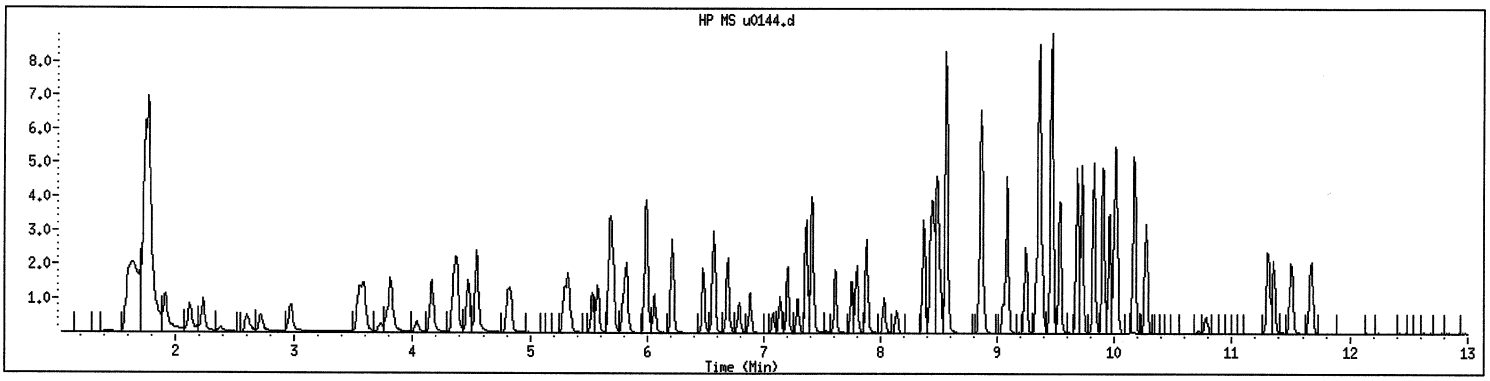
000080



Data file : /var/chem/msv0.i/2050214p.s.b/u0144.d
Report Date: 02/15/2005 17:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 14-FEB-2005 13:33	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1203*V0STD050*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0145.d
Lab Smp Id: 1204 Client Smp ID: V0STD100
Inj Date : 14-FEB-2005 13:54
Operator : KCB Inst ID: msv0.i
Smp Info : 1204*V0STD100*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:45 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 13:54 Cal File: u0145.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.911	1.911	(0.308)	207047	100.000	111	9077
2 Chloromethane ++	50	2.116	2.116	(0.341)	259647	100.000	97.2	8427
3 Vinyl Chloride +	62	2.229	2.229	(0.359)	269003	100.000	109	8819
4 Bromomethane	94	2.592	2.592	(0.417)	93176	100.000	108	9259
5 Chloroethane	64	2.711	2.711	(0.436)	117025	100.000	104	8993
6 Trichlorofluoromethane	101	2.969	2.969	(0.478)	213045	100.000	103	9766
7 Acrolein	56	3.563	3.563	(0.574)	79605	500.000	513	8068(A)
9 1,1,2Trichlotrifluoroethane	101	3.544	3.544	(0.570)	136872	100.000	96.3	8868
8 1,1-Dichloroethene +	96	3.583	3.583	(0.577)	126195	100.000	96.0	8722
10 Acetone	43	3.729	3.729	(0.600)	80252	100.000	103	2424
11 Methyl Iodide	142	3.782	3.782	(0.609)	158586	100.000	102	7913
12 Carbon Disulfide	76	3.815	3.815	(0.614)	532214	100.000	91.2	8717
106 Methyl Acetate	43	4.033	4.033	(0.649)	96595	100.000	93.3	8814

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	13 Methylene Chloride	49	4.158	4.158	(0.669)	231262	100.000	90.4	9261
	14 Acrylonitrile	53	4.475	4.475	(0.720)	272016	500.000	495	7716(A)
	15 trans-1,2-Dichloroethene	61	4.376	4.376	(0.704)	205659	100.000	97.3	9436
	16 MTBE	73	4.350	4.350	(0.700)	327302	100.000	99.1	9121
	17 Hexane	57	4.542	4.542	(0.731)	222747	100.000	90.6	9002
	19 Vinyl Acetate	43	4.832	4.832	(0.778)	300055	100.000	91.9	
	18 1,1-Dichloroethane ++	63	4.812	4.812	(0.775)	247303	100.000	97.9	9408
	22 2-Butanone	43	5.348	5.348	(0.861)	100159	100.000	102	
	21 cis-1,2-Dichloroethene	61	5.321	5.321	(0.856)	228790	100.000	107	9479
	20 2,2-Dichloropropane	77	5.295	5.295	(0.852)	159276	100.000	101	9755
	23 Bromochloromethane	128	5.533	5.533	(0.890)	52678	100.000	100	9100
	24 Chloroform +	83	5.579	5.579	(0.898)	200176	100.000	99.1	9825
$	25 Dibromofluoromethane	111	5.711	5.711	(0.919)	124409	100.000	99.3	9607
	26 1,1,1-Trichloroethane	97	5.698	5.698	(0.917)	168896	100.000	102	9168
	105 Cyclohexane	56	5.678	5.678	(0.914)	254416	100.000	101	8310
	27 1,1-Dichloropropene	75	5.824	5.824	(0.937)	167470	100.000	103	9704
	28 Carbon Tetrachloride	117	5.797	5.797	(0.933)	130401	100.000	102	9639
$	32 1,2-Dichloroethane-d4	67	6.002	6.002	(0.966)	68882	100.000	102	9200
	33 Benzene	78	5.989	5.989	(0.964)	560319	100.000	101	9346
	34 1,2-Dichloroethane	62	6.061	6.061	(0.976)	149508	100.000	105	8857
*	35 FLUOROBENZENE	96	6.213	6.213	(1.000)	227444	50.0000		9678
	36 Trichloroethene	130	6.484	6.484	(1.044)	116825	100.000	103	9623
	40 Methyl cyclohexane	83	6.570	6.570	(1.057)	207263	100.000	103	9605
	37 1,2-Dichloropropane +	63	6.689	6.689	(1.077)	154516	100.000	103	9149
M	31 Total 1,2-Dichloroethene	61				434449	200.000	204	0
	38 Dibromomethane	93	6.788	6.788	(1.093)	67195	100.000	102	9437
	39 Bromodichloromethane	83	6.881	6.881	(1.107)	145902	100.000	103	9655
	41 2-Chloroethyl vinyl ether	63	7.079	7.079	(1.139)	41669	100.000	102	7296(H)
	42 1-Bromo-2-chloroethane	144	7.145	7.145	(1.150)	16730	100.000	95.3	9327
	44 cis-1,3-Dichloropropene	75	7.205	7.205	(1.160)	207149	100.000	106	
	45 4-methyl-2-pentanone	43	7.291	7.291	(1.173)	164928	100.000	107	
$	46 Toluene-d8	98	7.363	7.363	(0.873)	409564	100.000	94.8	9742
	47 Toluene +	91	7.416	7.416	(0.879)	550244	100.000	96.9	9412
	50 1-Chlorohexane	91	8.374	8.374	(1.348)	192374	100.000	108	3977
	51 trans-1,3-Dichloropropene	75	7.614	7.614	(0.903)	197198	100.000	105	
M	146 1-3 Dichloropropene-Total	100				404347	200.000	216	0
	52 1,1,2-Trichloroethane	97	7.753	7.753	(0.919)	106319	100.000	105	9372
	53 1,3-Dichloropropane	76	7.879	7.879	(0.934)	212299	100.000	105	9516
	54 Tetrachloroethene	164	7.799	7.799	(0.925)	98748	100.000	104	9585
	55 2-Hexanone	43	7.879	7.879	(0.934)	137767	100.000	110	5236
	56 Dibromochloromethane	129	8.031	8.031	(0.952)	120241	100.000	107	9492
	57 1,2-Dibromoethane(EDB)	107	8.136	8.136	(0.965)	102897	100.000	107	9581
*	58 Chlorobenzene-d5	82	8.434	8.434	(1.000)	99627	50.0000		8755
	59 Chlorobenzene ++	112	8.454	8.454	(1.002)	339784	100.000	96.7	9446
	60 1,1,1,2-Tetrachloroethane	133	8.506	8.506	(1.009)	115980	100.000	106	7372
	61 Ethylbenzene +	106	8.487	8.487	(1.006)	192459	100.000	101	9573
	62 p,m-Xylene	106	8.566	8.566	(1.016)	492012	200.000	204	9823(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	63 o-Xylene	106	8.857	8.857	(1.050)	253576	100.000	108	
	64 Styrene	104	8.870	8.870	(1.052)	451501	100.000	107	9725
	65 Bromoform ++	173	9.055	9.055	(1.074)	88359	100.000	109	9469
	66 Isopropylbenzene	105	9.088	9.088	(1.078)	645665	100.000	107	9759
$	67 Bromofluorobenzene	174	9.247	9.247	(1.096)	146674	100.000	103	9695
	68 1,1,2,2-Tetrachloroethane++	83	9.333	9.333	(0.933)	160447	100.000	99.8	5050
	69 trans-1,4-Dichloro-2-Butene	53	9.465	9.465	(0.946)	22747	100.000	102	8465
	70 1,2,3-Trichloropropane	75	9.379	9.379	(0.938)	204276	100.000	103	7375
	71 Bromobenzene	77	9.359	9.359	(0.936)	373707	100.000	103	7558
	72 n-Propylbenzene	91	9.359	9.359	(0.936)	905316	100.000	102	8548
	73 2-Chlorotoluene	91	9.465	9.465	(0.946)	563539	100.000	102	7309(H)
	74 1,3,5-Trimethylbenzene	105	9.465	9.465	(0.946)	562151	100.000	103	
	75 4-Chlorotoluene	91	9.537	9.537	(0.954)	499580	100.000	100	9726
	76 tert-butylbenzene	91	9.683	9.683	(0.968)	376254	100.000	105	9712
	77 1,2,4-Trimethylbenzene	105	9.722	9.722	(0.972)	572346	100.000	102	
	78 sec-Butylbenzene	105	9.828	9.828	(0.983)	767346	100.000	100	
	79 p-Isopropyltoluene	119	9.907	9.907	(0.991)	609598	100.000	101	9784
	80 1,3-Dichlorobenzene	146	9.960	9.960	(0.996)	320239	100.000	99.3	
*	81 1,4-DICHLOROBENZENE-D4	152	10.000	10.000	(1.000)	101134	50.0000		9329
	82 1,4-Dichlorobenzene	146	10.020	10.020	(1.002)	315644	100.000	96.2	
	83 n-Butylbenzene	91	10.165	10.165	(1.017)	648822	100.000	100	9781
	85 1,2-Dichlorobenzene	146	10.271	10.271	(1.027)	296073	100.000	99.8	
	86 1,2-Dibromo-3-Chloropropane	157	10.780	10.780	(1.078)	29879	100.000	99.1	9372
M	84 TOTAL XYLENE	106				745588	300.000	312	0
	87 1,2,4-Trichlorobenzene	180	11.302	11.302	(1.130)	188951	100.000	105	
	88 Hexachlorobutadiene	225	11.355	11.355	(1.135)	84956	100.000	105	9480
	89 Napthalene	128	11.500	11.500	(1.150)	425302	100.000	107	9677
	90 1,2,3-Trichlorobenzene	180	11.665	11.665	(1.167)	171362	100.000	106	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

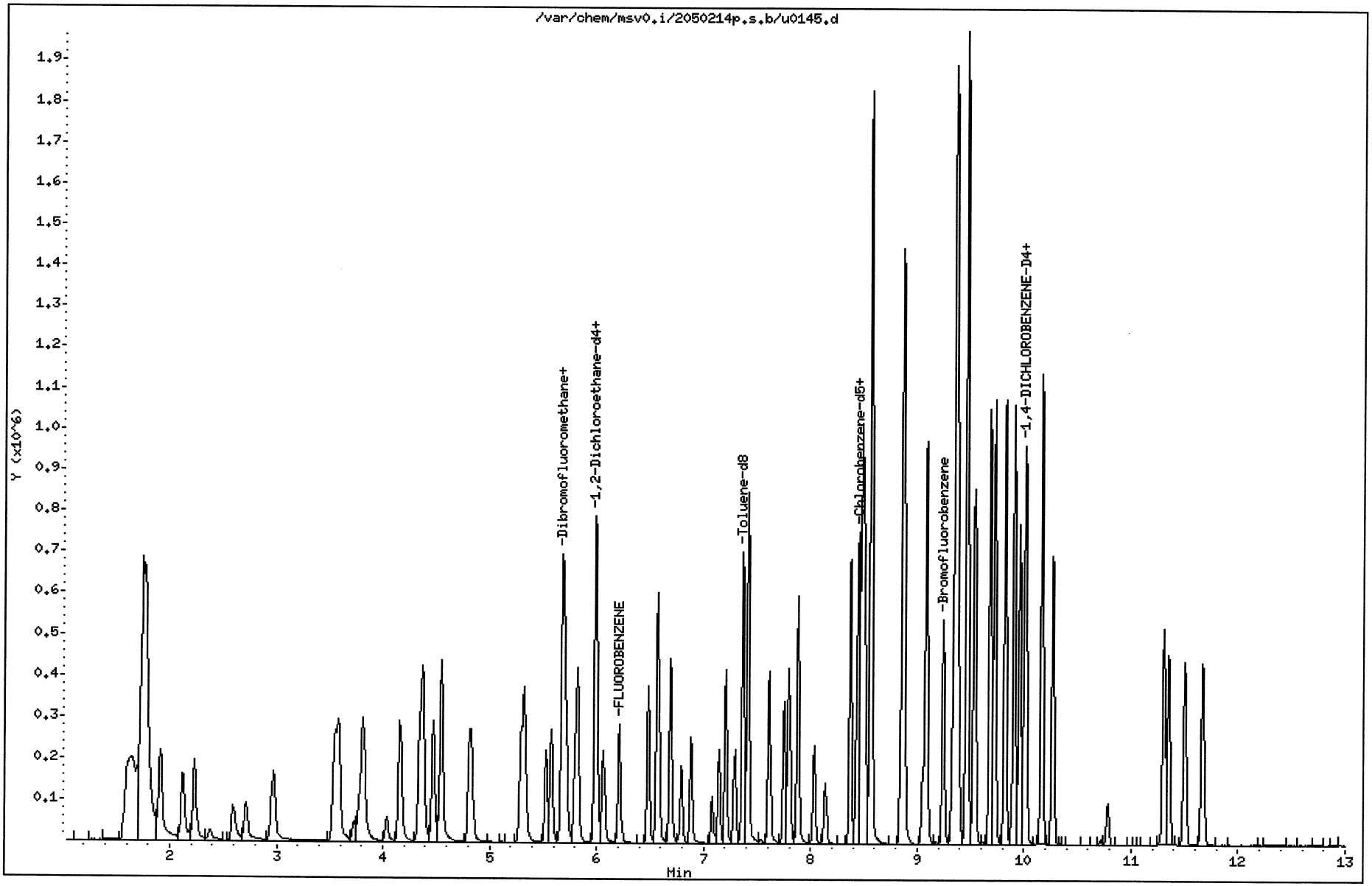
Data File: /var/chem/msv0.i/2050214p.s.b/u0145.d
Date : 14-FEB-2005 13:54
Client ID: VOSTD100
Sample Info: 1204*VOSTD100*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

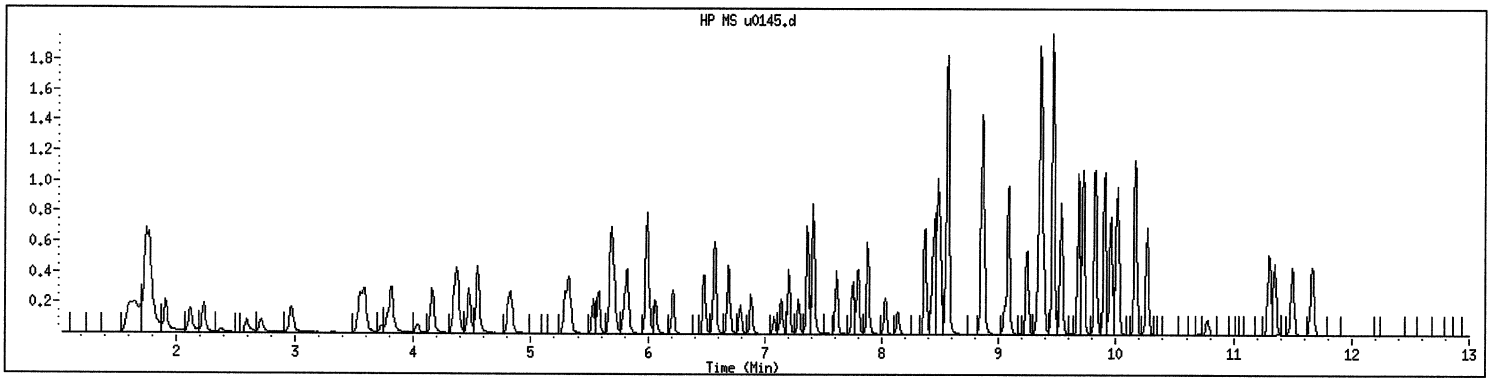
000085



Data file : /var/chem/msv0.i/2050214p.s.b/u0145.d
Report Date: 02/15/2005 17:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 14-FEB-2005 13:54	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1204*V0STD100*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0146.d
Lab Smp Id: 1205 Client Smp ID: V0STD200
Inj Date : 14-FEB-2005 14:15
Operator : KCB Inst ID: msv0.i
Smp Info : 1205*V0STD200*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:45 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 14:15 Cal File: u0146.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.913	1.913	(0.308)	494551	200.000	240	8447(A)
2 Chloromethane ++	50	2.118	2.118	(0.341)	574517	200.000	195	8343
3 Vinyl Chloride +	62	2.230	2.230	(0.359)	560536	200.000	205	8694(A)
4 Bromomethane	94	2.580	2.580	(0.415)	144415	200.000	197	8960
5 Chloroethane	64	2.699	2.699	(0.434)	203342	200.000	164	9042
6 Trichlorofluoromethane	101	2.964	2.964	(0.477)	523067	200.000	229	9685(A)
7 Acrolein	56	3.558	3.558	(0.573)	182358	1000.00	1060	8438(A)
9 1,1,2Trichlotrifluoroethane	101	3.539	3.539	(0.569)	345738	200.000	220	8463(A)
8 1,1-Dichloroethene +	96	3.585	3.585	(0.577)	314853	200.000	217	8406(A)
10 Acetone	43	3.724	3.724	(0.599)	146813	200.000	199	2304
11 Methyl Iodide	142	3.777	3.777	(0.608)	403393	200.000	236	7865(A)
12 Carbon Disulfide	76	3.810	3.810	(0.613)	1275575	200.000	198	8669
106 Methyl Acetate	43	4.034	4.034	(0.649)	194940	200.000	171	8629

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	13 Methylene Chloride	49	4.160	4.160	(0.669)	492673	200.000	174	9203
	14 Acrylonitrile	53	4.470	4.470	(0.719)	554088	1000.00	912	7659 (A)
	15 trans-1,2-Dichloroethene	61	4.371	4.371	(0.703)	449542	200.000	193	9356
	16 MTBE	73	4.351	4.351	(0.700)	710553	200.000	195	8649
	17 Hexane	57	4.543	4.543	(0.731)	482628	200.000	178	8973
	19 Vinyl Acetate	43	4.834	4.834	(0.778)	806807	200.000	224	(A)
	18 1,1-Dichloroethane ++	63	4.807	4.807	(0.774)	598828	200.000	215	9383 (A)
	22 2-Butanone	43	5.343	5.343	(0.860)	206082	200.000	191	
	21 cis-1,2-Dichloroethene	61	5.323	5.323	(0.856)	523450	200.000	221	9285 (A)
	20 2,2-Dichloropropane	77	5.290	5.290	(0.851)	375052	200.000	216	9581 (A)
	23 Bromochloromethane	128	5.528	5.528	(0.889)	112296	200.000	194	8889
	24 Chloroform +	83	5.574	5.574	(0.897)	467254	200.000	210	9807 (A)
$	25 Dibromofluoromethane	111	5.713	5.713	(0.919)	279936	200.000	202	9261 (A)
	26 1,1,1-Trichloroethane	97	5.693	5.693	(0.916)	393366	200.000	214	8987 (A)
	105 Cyclohexane	56	5.680	5.680	(0.914)	610790	200.000	219	8562 (A)
	27 1,1-Dichloropropene	75	5.825	5.825	(0.937)	388473	200.000	217	9524 (A)
	28 Carbon Tetrachloride	117	5.799	5.799	(0.933)	307528	200.000	218	9266 (A)
$	32 1,2-Dichloroethane-d4	67	6.004	6.004	(0.966)	156034	200.000	209	9470 (A)
	33 Benzene	78	5.990	5.990	(0.964)	1290189	200.000	210	9519 (A)
	34 1,2-Dichloroethane	62	6.063	6.063	(0.976)	329526	200.000	209	8904 (A)
*	35 FLUOROBENZENE	96	6.215	6.215	(1.000)	251178	50.0000		9728
	36 Trichloroethene	130	6.479	6.479	(1.043)	269493	200.000	215	9628 (A)
	40 Methyl cyclohexane	83	6.572	6.572	(1.057)	481063	200.000	217	9583 (A)
	37 1,2-Dichloropropane +	63	6.691	6.691	(1.077)	357541	200.000	216	9102 (A)
M	31 Total 1,2-Dichloroethene	61				972992	400.000	414	0 (A)
	38 Dibromomethane	93	6.790	6.790	(1.093)	155366	200.000	215	9317 (A)
	39 Bromodichloromethane	83	6.882	6.882	(1.107)	344375	200.000	219	9684 (A)
	41 2-Chloroethyl vinyl ether	63	7.081	7.081	(1.139)	84880	200.000	197	7392 (MH)
	42 1-Bromo-2-chloroethane	144	7.140	7.140	(1.149)	40275	200.000	202	9262
	44 cis-1,3-Dichloropropene	75	7.206	7.206	(1.159)	486199	200.000	226	(A)
	45 4-methyl-2-pentanone	43	7.286	7.286	(1.172)	379367	200.000	222	(A)
$	46 Toluene-d8	98	7.365	7.365	(0.873)	1004937	200.000	198	9688
	47 Toluene +	91	7.418	7.418	(0.879)	1316227	200.000	197	9320
	50 1-Chlorohexane	91	8.369	8.369	(1.347)	475808	200.000	241	4810
	51 trans-1,3-Dichloropropene	75	7.609	7.609	(0.902)	475600	200.000	216	(A)
M	146 1-3 Dichloropropene-Total	100				961799	400.000	466	0
	52 1,1,2-Trichloroethane	97	7.755	7.755	(0.919)	247302	200.000	208	9388 (A)
	53 1,3-Dichloropropane	76	7.880	7.880	(0.934)	491375	200.000	206	9556 (A)
	54 Tetrachloroethene	164	7.794	7.794	(0.924)	235540	200.000	211	9603 (A)
	55 2-Hexanone	43	7.880	7.880	(0.934)	298422	200.000	204	5163 (A)
	56 Dibromochloromethane	129	8.032	8.032	(0.952)	285998	200.000	217	9420 (A)
	57 1,2-Dibromoethane(EDB)	107	8.138	8.138	(0.965)	245555	200.000	217	9305 (A)
*	58 Chlorobenzene-d5	82	8.435	8.435	(1.000)	116988	50.0000		6649
	59 Chlorobenzene ++	112	8.455	8.455	(1.002)	813917	200.000	197	9011
	60 1,1,1,2-Tetrachloroethane	133	8.508	8.508	(1.009)	270151	200.000	210	6977 (A)
	61 Ethylbenzene +	106	8.488	8.488	(1.006)	464067	200.000	208	9626 (A)
	62 p,m-Xylene	106	8.568	8.568	(1.016)	1183380	400.000	418	9740 (A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	63 o-Xylene	106	8.858	8.858	(1.050)	599181	200.000	217	(A)
	64 Styrene	104	8.872	8.872	(1.052)	1067127	200.000	216	9524 (A)
	65 Bromoform ++	173	9.050	9.050	(1.073)	202734	200.000	213	9454 (A)
	66 Isopropylbenzene	105	9.083	9.083	(1.077)	1524504	200.000	215	9775 (A)
$	67 Bromofluorobenzene	174	9.248	9.248	(1.096)	349793	200.000	210	9622 (A)
	68 1,1,2,2-Tetrachloroethane++	83	9.334	9.334	(0.933)	365177	200.000	203	5206 (A)
	69 trans-1,4-Dichloro-2-Butene	53	9.466	9.466	(0.946)	49790	200.000	200	8555 (A)
	70 1,2,3-Trichloropropane	75	9.380	9.380	(0.938)	453805	200.000	204	7220 (A)
	71 Bromobenzene	77	9.361	9.361	(0.936)	856240	200.000	211	7593 (A)
	72 n-Propylbenzene	91	9.361	9.361	(0.936)	2090346	200.000	211	8498 (A)
	73 2-Chlorotoluene	91	9.466	9.466	(0.946)	1286815	200.000	208	7262 (AH)
	74 1,3,5-Trimethylbenzene	105	9.466	9.466	(0.946)	1299066	200.000	213	(A)
	75 4-Chlorotoluene	91	9.539	9.539	(0.954)	1183839	200.000	212	9694 (A)
	76 tert-butylbenzene	91	9.684	9.684	(0.968)	870090	200.000	217	9815 (A)
	77 1,2,4-Trimethylbenzene	105	9.724	9.724	(0.972)	1315659	200.000	209	(A)
	78 sec-Butylbenzene	105	9.830	9.830	(0.983)	1790717	200.000	209	(A)
	79 p-Isopropyltoluene	119	9.909	9.909	(0.991)	1410488	200.000	210	9843 (A)
	80 1,3-Dichlorobenzene	146	9.962	9.962	(0.996)	735653	200.000	204	(A)
*	81 1,4-DICHLOROBENZENE-D4	152	10.002	10.002	(1.000)	113177	50.0000		7744
	82 1,4-Dichlorobenzene	146	10.021	10.021	(1.002)	722927	200.000	197	
	83 n-Butylbenzene	91	10.167	10.167	(1.017)	1506007	200.000	208	9754 (A)
	85 1,2-Dichlorobenzene	146	10.266	10.266	(1.026)	674923	200.000	203	(A)
	86 1,2-Dibromo-3-Chloropropane	157	10.781	10.781	(1.078)	68140	200.000	200	9285 (A)
M	84 TOTAL XYLENE	106				1782561	600.000	634	0
	87 1,2,4-Trichlorobenzene	180	11.303	11.303	(1.130)	451880	200.000	224	(A)
	88 Hexachlorobutadiene	225	11.356	11.356	(1.135)	208235	200.000	230	9610 (A)
	89 Napthalene	128	11.502	11.502	(1.150)	989472	200.000	223	9719 (A)
	90 1,2,3-Trichlorobenzene	180	11.667	11.667	(1.167)	403680	200.000	223	(A)

QC Flag Legend

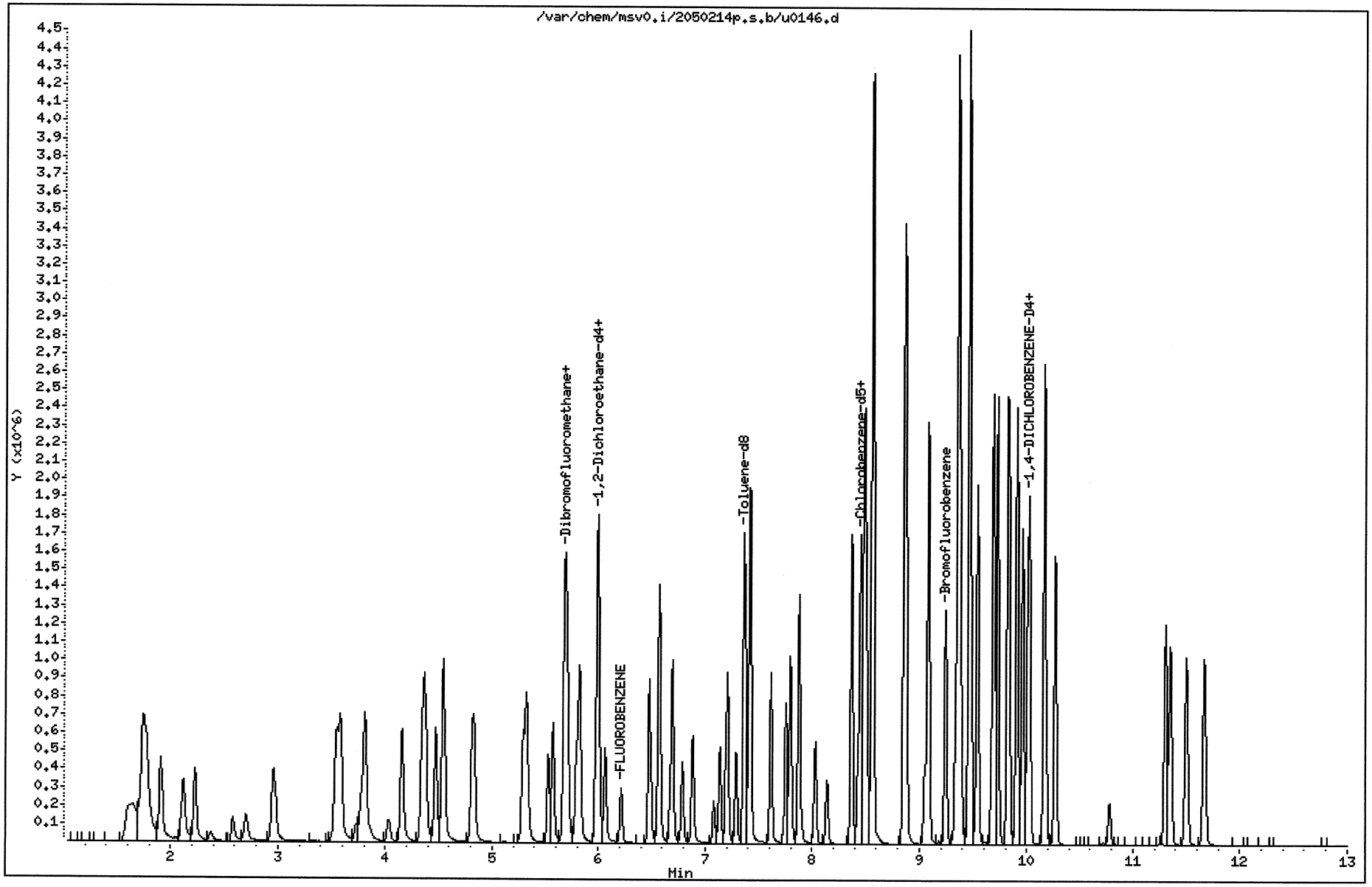
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2050214p.s.b/u0146.d
Date : 14-FEB-2005 14:15
Client ID: VOSTD200
Sample Info: 1205*VOSTD200*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

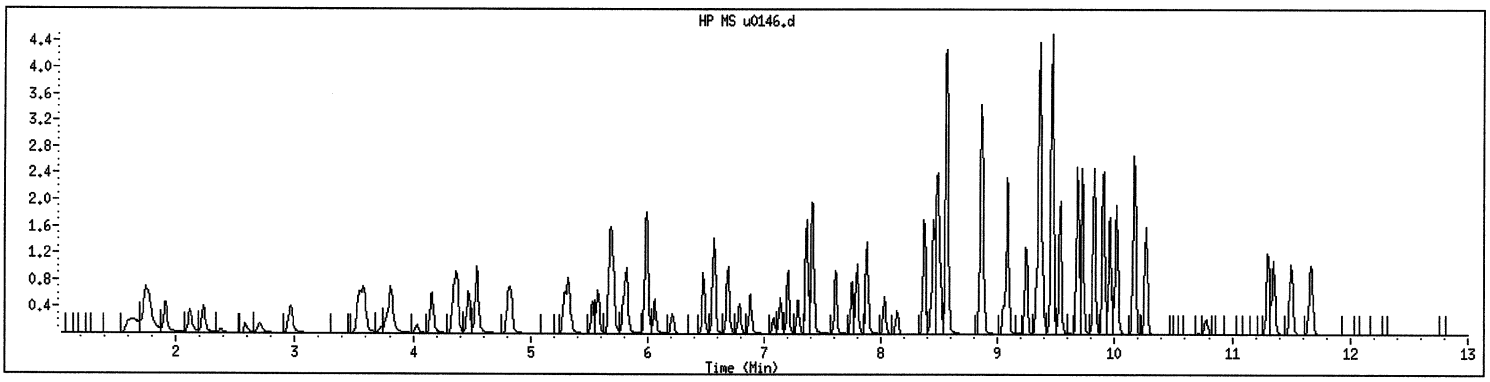
Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv0.i/2050214p.s.b/u0146.d
Report Date: 02/15/2005 17:45

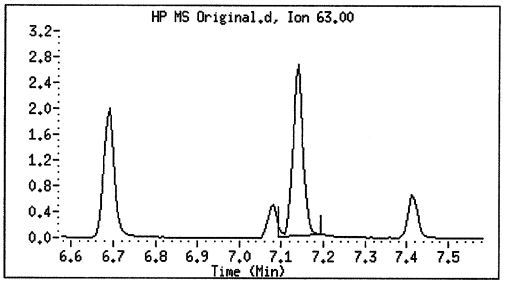
MANUAL INTEGRATION GRAPHIC REPORT

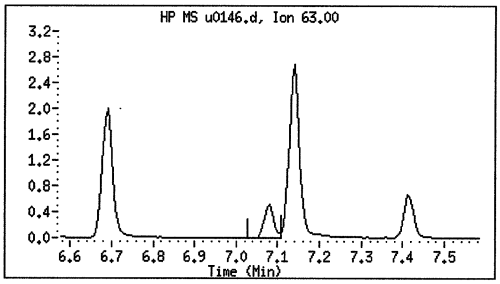
Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 14-FEB-2005 14:15	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1205*V0STD200*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



Original Final

41 2-Chloroethyl vinyl ether CAS#: 110-75-8





Data file : /var/chem/msv0.i/2050214p.s.b/u0148.d
Report Date: 03/01/2005 08:06

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b+CAP.sub
Method File: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Misc Info: MSV~5821~*1*KCB

Client SDG: 2050214p.s
Fraction: VOA
Client Smp ID: V0ICV050
Operator: KCB
Sample Type: LCS
Quant Type: ISTD

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	1	Dichlorodifluoromethane	50.0	59.2	118.42	80-120
	2	Chloromethane ++	50.0	57.7	115.44	80-120
	3	Vinyl Chloride +	50.0	55.5	110.96	80-120
	4	Bromomethane	50.0	59.2	118.32	80-120
	5	Chloroethane	50.0	57.1	114.22	80-120
	6	Trichlorofluoromethane	50.0	56.9	113.73	80-120
	7	Acrolein	250	270	107.82	80-120
	8	1,1-Dichloroethene +	50.0	55.9	111.71	80-120
	9	1,1,2Trichlotrifluoroethane	50.0	54.0	108.03	80-120
	10	Acetone	50.0	51.0	101.94	80-120
	11	Methyl Iodide	50.0	55.5	111.07	80-120
	12	Carbon Disulfide	50.0	52.0	104.01	80-120
	13	Methylene Chloride	50.0	49.6	99.19	80-120
	14	Acrylonitrile	250	243	97.02	80-120
	15	trans-1,2-Dichloroethene	50.0	49.0	98.08	80-120
	16	MTBE	50.0	52.5	105.01	80-120
	17	Hexane	50.0	42.7	85.46	80-120
	18	1,1-Dichloroethane ++	50.0	55.4	110.70	80-120
	19	Vinyl Acetate	50.0	41.3	82.69	80-120
	20	2,2-Dichloropropane	50.0	48.4	96.83	80-120
	21	cis-1,2-Dichloroethene	50.0	52.1	104.21	80-120
	22	2-Butanone	50.0	47.7	95.36	80-120
	23	Bromochloromethane	50.0	53.7	107.35	80-120
	24	Chloroform +	50.0	51.4	102.75	80-120
	26	1,1,1-Trichloroethane	50.0	50.4	100.81	80-120
	27	1,1-Dichloropropene	50.0	49.8	99.58	80-120
	28	Carbon Tetrachloride	50.0	48.6	97.19	80-120
M	31	Total 1,2-Dichloroethene	100	101	101.17	80-120
	33	Benzene	50.0	48.9	97.71	80-120
	34	1,2-Dichloroethane	50.0	53.4	106.88	80-120

Data file : /var/chem/msv0.i/2050214p.s.b/u0148.d
Report Date: 03/01/2005 08:06

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	36	Trichloroethene	50.0	52.5	104.99	80-120
	37	1,2-Dichloropropane +	50.0	52.8	105.63	80-120
	38	Dibromomethane	50.0	52.1	104.16	80-120
	39	Bromodichloromethane	50.0	53.1	106.12	80-120
	40	Methyl cyclohexane	50.0	48.0	95.96	80-120
	41	2-Chloroethyl vinyl ether	50.0	66.9	133.71*	80-120
	44	cis-1,3-Dichloropropene	50.0	54.2	108.45	80-120
	45	4-methyl-2-pentanone	50.0	50.3	100.67	80-120
	47	Toluene +	50.0	49.7	99.44	80-120
	51	trans-1,3-Dichloropropene	50.0	53.3	106.66	80-120
	52	1,1,2-Trichloroethane	50.0	51.1	102.29	80-120
	53	1,3-Dichloropropane	50.0	52.4	104.80	80-120
	54	Tetrachloroethene	50.0	48.4	96.72	80-120
	55	2-Hexanone	50.0	50.3	100.67	80-120
	56	Dibromochloromethane	50.0	52.0	103.94	80-120
	57	1,2-Dibromoethane(EDB)	50.0	52.4	104.74	80-120
	59	Chlorobenzene ++	50.0	48.2	96.32	80-120
	60	1,1,1,2-Tetrachloroethane	50.0	53.1	106.27	80-120
	61	Ethylbenzene +	50.0	49.6	99.22	80-120
	62	p,m-Xylene	100	97.2	97.24	80-120
	63	o-Xylene	50.0	51.8	103.50	80-120
	64	Styrene	50.0	52.1	104.25	80-120
	65	Bromoform ++	50.0	51.3	102.68	80-120
	66	Isopropylbenzene	50.0	51.1	102.29	80-120
	68	1,1,2,2-Tetrachloroethane++	50.0	47.6	95.21	80-120
	69	trans-1,4-Dichloro-2-Butene	50.0	50.3	100.52	80-120
	70	1,2,3-Trichloropropane	50.0	50.1	100.11	80-120
	71	Bromobenzene	50.0	50.5	101.00	80-120
	72	n-Propylbenzene	50.0	47.9	95.76	80-120
	73	2-Chlorotoluene	50.0	49.0	98.04	80-120
	74	1,3,5-Trimethylbenzene	50.0	49.1	98.16	80-120
	75	4-Chlorotoluene	50.0	49.8	99.59	80-120
	76	tert-butylbenzene	50.0	51.8	103.51	80-120
	77	1,2,4-Trimethylbenzene	50.0	49.1	98.17	80-120
	78	sec-Butylbenzene	50.0	48.7	97.49	80-120
	79	p-Isopropyltoluene	50.0	48.8	97.58	80-120
	80	1,3-Dichlorobenzene	50.0	49.5	99.07	80-120
	82	1,4-Dichlorobenzene	50.0	46.7	93.33	80-120
	83	n-Butylbenzene	50.0	47.0	94.04	80-120
M	84	TOTAL XYLENE	150	149	99.33	80-120
	85	1,2-Dichlorobenzene	50.0	48.9	97.75	80-120
	86	1,2-Dibromo-3-Chloropropane	50.0	48.9	97.78	80-120
	87	1,2,4-Trichlorobenzene	50.0	49.4	98.89	80-120
	88	Hexachlorobutadiene	50.0	48.7	97.49	80-120
	90	1,2,3-Trichlorobenzene	50.0	52.3	104.61	80-120
	105	Cyclohexane	50.0	48.6	97.28	80-120

Data file : /var/chem/msv0.i/2050214p.s.b/u0148.d
Report Date: 03/01/2005 08:06

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
106 Methyl Acetate	50.0	49.6	99.19	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluoromethane	50.0	50.8	101.63	70-130
$ 32 1,2-Dichloroethane-d4	50.0	51.8	103.66	60-140
$ 46 Toluene-d8	50.0	49.6	99.22	65-128
$ 67 Bromofluorobenzene	50.0	49.9	99.89	61-125

GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0148.d
Lab Smp Id: 1600 Client Smp ID: V0ICV050
Inj Date : 14-FEB-2005 16:03
Operator : KCB Inst ID: msv0.i
Smp Info : 1600*V0ICV050*
Misc Info : MSV~5821~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050214p.s.b/8260Bs0.m
Meth Date : 15-Feb-2005 17:45 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 13:54 Cal File: u0145.d
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.914	1.911	(0.308)	110091	59.2110	59.2	9211
2 Chloromethane ++	50	2.119	2.116	(0.341)	153846	57.7187	57.7	8731
3 Vinyl Chloride +	62	2.231	2.229	(0.359)	136985	55.4801	55.5	9020
4 Bromomethane	94	2.601	2.592	(0.418)	64585	59.1596	59.2	9224
5 Chloroethane	64	2.720	2.711	(0.438)	64122	57.1083	57.1	8942
6 Trichlorofluoromethane	101	2.971	2.969	(0.478)	117074	56.8642	56.9	9534
7 Acrolein	56	3.560	3.563	(0.573)	41695	269.540	270	8946(A)
9 1,1,2Trichlotrifluoroethane	101	3.546	3.544	(0.570)	76547	54.0154	54.0	8915
8 1,1-Dichloroethene +	96	3.586	3.583	(0.577)	73242	55.8545	55.9	8714
10 Acetone	43	3.725	3.729	(0.599)	44686	50.9722	51.0	2416
11 Methyl Iodide	142	3.784	3.782	(0.609)	85792	55.5359	55.5	7825
12 Carbon Disulfide	76	3.817	3.815	(0.614)	302617	52.0064	52.0	8724
106 Methyl Acetate	43	4.035	4.033	(0.649)	51190	49.5942	49.6	9134

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	13 Methylene Chloride	49	4.161	4.158	(0.669)	126582	49.5969	49.6	9313
	14 Acrylonitrile	53	4.471	4.475	(0.719)	133045	242.548	243	7798(A)
	15 trans-1,2-Dichloroethene	61	4.379	4.376	(0.704)	103334	49.0394	49.0	9474
	16 MTBE	73	4.353	4.350	(0.700)	172880	52.5075	52.5	9118
	17 Hexane	57	4.544	4.542	(0.731)	104755	42.7310	42.7	8970
	19 Vinyl Acetate	43	4.835	4.832	(0.778)	134652	41.3442	41.3	
	18 1,1-Dichloroethane ++	63	4.809	4.812	(0.774)	139396	55.3514	55.4	9318
	22 2-Butanone	43	5.344	5.348	(0.860)	46563	47.6794	47.7	
	21 cis-1,2-Dichloroethene	61	5.324	5.321	(0.856)	111495	52.1048	52.1	9364
	20 2,2-Dichloropropane	77	5.291	5.295	(0.851)	75931	48.4162	48.4	9573
	23 Bromochloromethane	128	5.529	5.533	(0.889)	28083	53.6728	53.7	8936
	24 Chloroform +	83	5.575	5.579	(0.897)	103457	51.3730	51.4	9753
$	25 Dibromofluoromethane	111	5.714	5.711	(0.919)	63513	50.8128	50.8	9412
	26 1,1,1-Trichloroethane	97	5.694	5.698	(0.916)	83607	50.4058	50.4	8995
	105 Cyclohexane	56	5.681	5.678	(0.914)	122408	48.6421	48.6	8544
	27 1,1-Dichloropropene	75	5.826	5.824	(0.937)	80545	49.7901	49.8	9602
	28 Carbon Tetrachloride	117	5.800	5.797	(0.933)	61814	48.5934	48.6	9276
$	32 1,2-Dichloroethane-d4	67	6.005	6.002	(0.966)	34957	51.8315	51.8	9441
	33 Benzene	78	5.991	5.989	(0.964)	271239	48.8573	48.9	9539
	34 1,2-Dichloroethane	62	6.064	6.061	(0.976)	76188	53.4390	53.4	8929
*	35 FLUOROBENZENE	96	6.216	6.213	(1.000)	226834	50.0000		9662
	36 Trichloroethene	130	6.480	6.484	(1.043)	59499	52.4948	52.5	9725
	40 Methyl cyclohexane	83	6.573	6.570	(1.057)	96097	47.9811	48.0	9662
	37 1,2-Dichloropropane +	63	6.692	6.689	(1.077)	78827	52.8136	52.8	9243
M	31 Total 1,2-Dichloroethene	61				214829	101.168	101	0
	38 Dibromomethane	93	6.791	6.788	(1.092)	34061	52.0795	52.1	9424
	39 Bromodichloromethane	83	6.884	6.881	(1.107)	75205	53.0622	53.1	9712
	41 2-Chloroethyl vinyl ether	63	7.082	7.079	(1.139)	28361	66.8547	66.9	7234(RH)
	42 1-Bromo-2-chloroethane	144	7.141	7.145	(1.149)	8654	51.6189	51.6	9341
	44 cis-1,3-Dichloropropene	75	7.207	7.205	(1.159)	105336	54.2256	54.2	
	45 4-methyl-2-pentanone	43	7.293	7.291	(1.173)	77719	50.3345	50.3	
$	46 Toluene-d8	98	7.366	7.363	(0.873)	207918	49.6119	49.6	9742
	47 Toluene +	91	7.419	7.416	(0.879)	273866	49.7178	49.7	9417
	50 1-Chlorohexane	91	8.370	8.374	(1.347)	89404	50.2135	50.2	4115
	51 trans-1,3-Dichloropropene	75	7.617	7.614	(0.903)	96756	53.3312	53.3	
M	146 1-3 Dichloropropene-Total	100				202092	108.452	108	0
	52 1,1,2-Trichloroethane	97	7.756	7.753	(0.919)	50312	51.1472	51.1	9431
	53 1,3-Dichloropropane	76	7.881	7.879	(0.934)	103014	52.4001	52.4	9560
	54 Tetrachloroethene	164	7.795	7.799	(0.924)	44502	48.3617	48.4	9624
	55 2-Hexanone	43	7.881	7.879	(0.934)	60863	50.3362	50.3	5013
	56 Dibromochloromethane	129	8.033	8.031	(0.952)	56644	51.9684	52.0	9533
	57 1,2-Dibromoethane(EDB)	107	8.139	8.136	(0.965)	48919	52.3688	52.4	9663
*	58 Chlorobenzene-d5	82	8.436	8.434	(1.000)	96595	50.0000		9368
	59 Chlorobenzene ++	112	8.456	8.454	(1.002)	164053	48.1577	48.2	9698
	60 1,1,1,2-Tetrachloroethane	133	8.509	8.506	(1.009)	56318	53.1328	53.1	6871
	61 Ethylbenzene +	106	8.483	8.487	(1.005)	91324	49.6120	49.6	9309
	62 p,m-Xylene	106	8.569	8.566	(1.016)	227503	97.2425	97.2	9819

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	63 o-Xylene	106	8.859	8.857	(1.050)	118141	51.7506	51.8	
	64 Styrene	104	8.873	8.870	(1.052)	212835	52.1254	52.1	9518
	65 Bromoform ++	173	9.051	9.055	(1.073)	40317	51.3397	51.3	9619
	66 Isopropylbenzene	105	9.084	9.088	(1.077)	298861	51.1471	51.1	9738
$	67 Bromofluorobenzene	174	9.249	9.247	(1.096)	68659	49.9474	49.9	9756
	68 1,1,2,2-Tetrachloroethane++	83	9.335	9.333	(0.933)	72213	47.6044	47.6	5338
	69 trans-1,4-Dichloro-2-Butene	53	9.467	9.465	(0.946)	10531	50.2605	50.3	8447
	70 1,2,3-Trichloropropane	75	9.381	9.379	(0.937)	93714	50.0546	50.1	7211
	71 Bromobenzene	77	9.362	9.359	(0.935)	172568	50.5022	50.5	7663
	72 n-Propylbenzene	91	9.362	9.359	(0.935)	399562	47.8781	47.9	8438
	73 2-Chlorotoluene	91	9.467	9.465	(0.946)	255693	49.0205	49.0	7309(H)
	74 1,3,5-Trimethylbenzene	105	9.467	9.465	(0.946)	252971	49.0782	49.1	
	75 4-Chlorotoluene	91	9.540	9.537	(0.953)	234301	49.7926	49.8	9833
	76 tert-butylbenzene	91	9.685	9.683	(0.968)	175145	51.7532	51.8	9685
	77 1,2,4-Trimethylbenzene	105	9.725	9.722	(0.972)	260221	49.0853	49.1	
	78 sec-Butylbenzene	105	9.831	9.828	(0.982)	353005	48.7453	48.7	
	79 p-Isopropyltoluene	119	9.910	9.907	(0.990)	276718	48.7882	48.8	9785
	80 1,3-Dichlorobenzene	146	9.963	9.960	(0.995)	150763	49.5342	49.5	
*	81 1,4-DICHLOROBENZENE-D4	152	10.009	10.000	(1.000)	95464	50.0000		9785
	82 1,4-Dichlorobenzene	146	10.022	10.020	(1.001)	144566	46.6664	46.7	
	83 n-Butylbenzene	91	10.174	10.165	(1.016)	286795	47.0181	47.0	9812
	85 1,2-Dichlorobenzene	146	10.274	10.271	(1.026)	136878	48.8733	48.9	
	86 1,2-Dibromo-3-Chloropropane	157	10.789	10.780	(1.078)	13636	48.8924	48.9	9335
M	84 TOTAL XYLENE	106				345644	148.993	149	0
	87 1,2,4-Trichlorobenzene	180	11.318	11.302	(1.131)	84076	49.4429	49.4	
	88 Hexachlorobutadiene	225	11.364	11.355	(1.135)	37170	48.7456	48.7	9342
	89 Napthalene	128	11.516	11.500	(1.151)	198699	52.9714	53.0	9690
	90 1,2,3-Trichlorobenzene	180	11.681	11.665	(1.167)	79781	52.3044	52.3	

QC Flag Legend

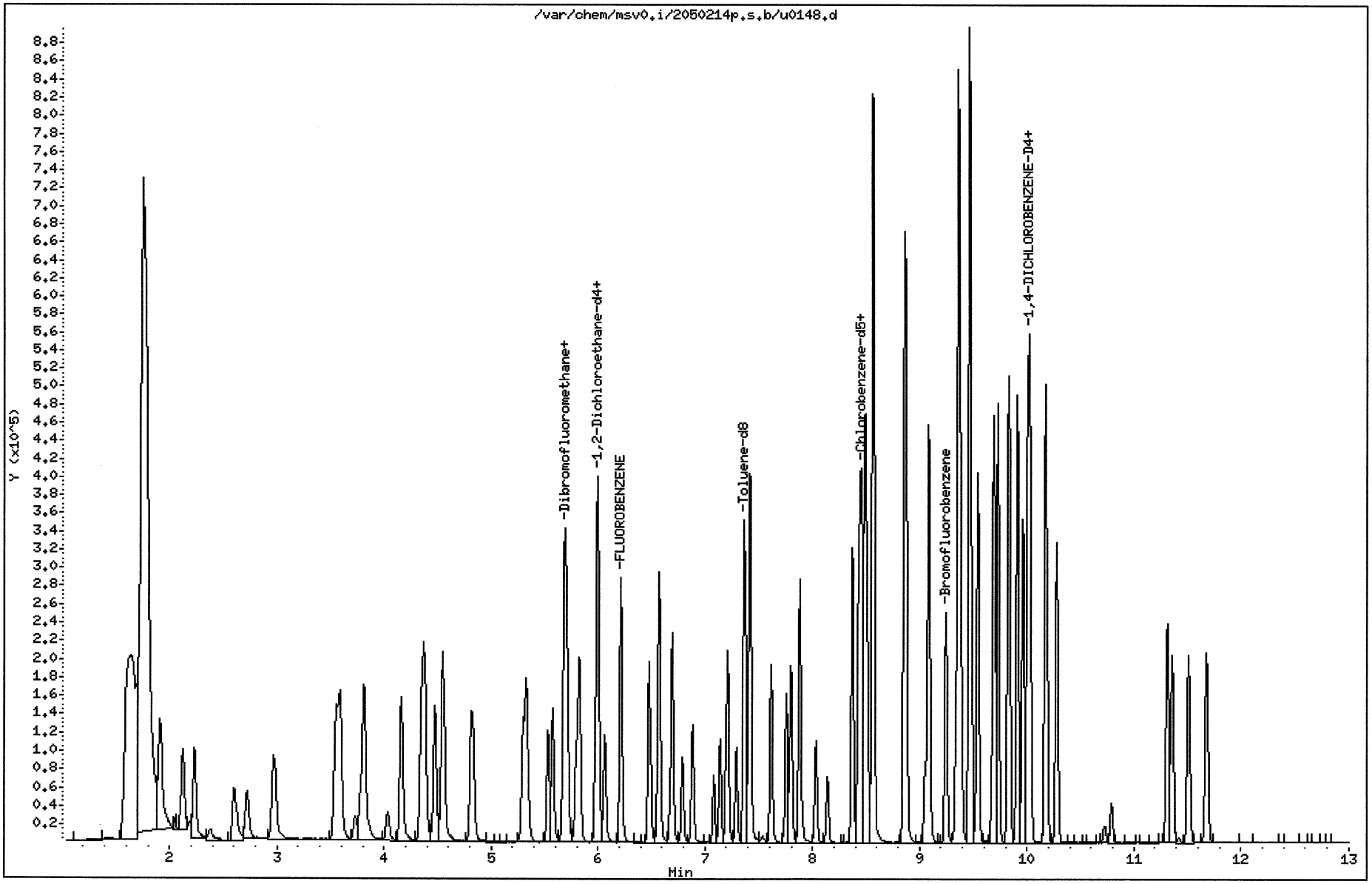
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2050214p.s.b/u0148.d
Date : 14-FEB-2005 16:03
Client ID: VOICV050
Sample Info: 1600*VOICV050*

Column phase: DB-624-30M

Instrument: msv0.i

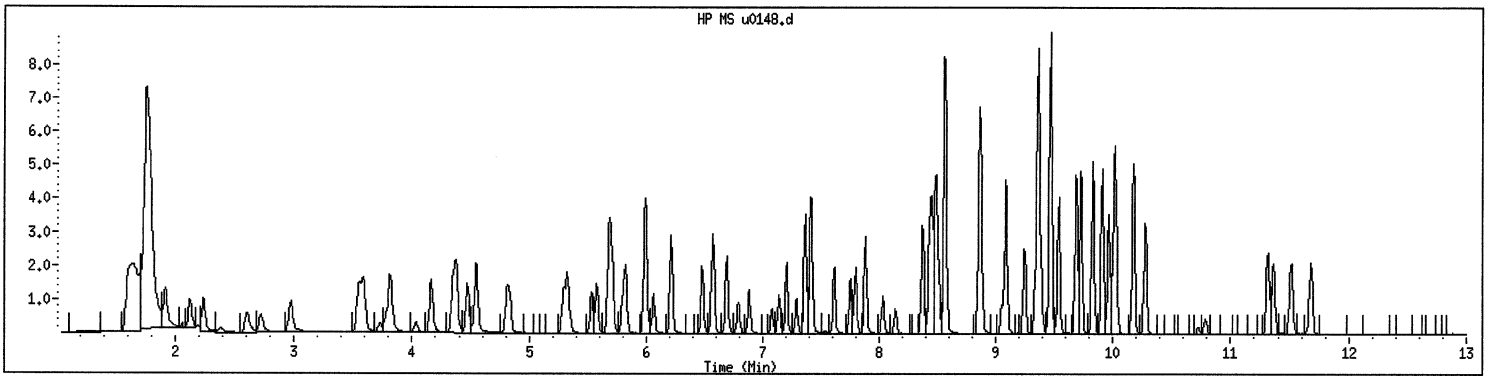
Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv0.i/2050214p.s.b/u0148.d
Report Date: 02/15/2005 17:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 14-FEB-2005 16:03	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1600*V0ICV050*		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



NO MANUAL INTEGRATIONS

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date: 02/19/05 Time: 1208

Lab File ID: 2050219P/U0255

Init. Calib. Date 1: 02/14/05 Time 1: 1229

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 02/19/05 Time 2: 0941

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

Analytical Batch: 287754

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
Acetone	4.406	0.179	0	-8.8	50	Q
Acrolein	0.034	0.032	0	-4.97	50	A
Acrylonitrile	0.121	0.117	0	-3.55	50	A
Bromochloromethane	0.115	0.133	0	15.7	50	A
Bromodichloromethane	0.312	0.353	0	12.9	50	A
Bromoform	0.406	0.457	.1	12.5	50	A
Bromomethane	1.112	0.190	0	-35.8	50	Q
Carbon disulfide	1.283	1.208	0	-5.83	50	A
Carbon tetrachloride	0.280	0.302	0	7.86	50	A
Chloroethane	0.248	0.231	0	-6.83	50	A
m,p-Xylene	1.211	1.375	0	13.5	50	A
Chloroform	0.444	0.489	0	10.1	20	A
Chloromethane	0.588	0.412	.1	-29.8	50	A
Dibromochloromethane	0.564	0.617	0	9.38	50	A
Dibromomethane	0.144	0.161	0	11.5	50	A
Dichlorodifluoromethane	0.410	0.327	0	-20.2	50	A
1,1-Dichloroethane	0.555	0.600	.1	8.17	50	A
1,2-Dichloroethane	0.314	0.331	0	5.26	50	A
cis-1,2-Dichloroethene	0.472	0.529	0	12.1	50	A
trans-1,2-Dichloroethene	0.464	0.438	0	-5.69	50	A
Methylene chloride	0.563	0.518	0	-7.84	50	A
1,2-Dichloropropane	0.329	0.370	0	12.4	20	A
cis-1,3-Dichloropropene	0.428	0.496	0	15.8	50	A
trans-1,3-Dichloropropene	0.939	1.068	0	13.7	50	A
Ethylbenzene	0.953	1.075	0	12.8	20	A
2-Hexanone	0.626	0.892	0	42.5	50	A
Isopropylbenzene (Cumene)	3.025	3.488	0	15.3	50	A
2-Butanone	0.215	0.243	0	12.7	50	A
Methyl iodide	0.341	0.324	0	-4.88	50	A
4-Methyl-2-pentanone	0.340	0.309	0	-9.1	50	A
n-Propylbenzene	4.371	4.797	0	9.74	50	A
Styrene	2.114	2.443	0	15.6	50	A
Tetrachloroethene	0.476	0.541	0	13.7	50	A
1,1,1,2-Tetrachloroethane	0.549	0.612	0	11.5	50	A
1,1,2,2-Tetrachloroethane	0.795	0.852	.3	7.18	50	A
1,2,4-Trichlorobenzene	0.891	1.049	0	17.8	50	A
1,1,1-Trichloroethane	0.366	0.390	0	6.75	50	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date: 02/19/05 Time: 1208

Lab File ID: 2050219P/U0255

Init. Calib. Date 1: 02/14/05 Time 1: 1229

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 02/19/05 Time 2: 0941

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

Analytical Batch: 287754

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
1,1,2-Trichloroethane	0.509	0.552	0	8.45	50	A
Trichlorofluoromethane	0.454	0.418	0	-7.91	50	A
1,2,3-Trichloropropane	0.981	1.052	0	7.31	50	A
1,2,4-Trimethylbenzene	2.777	3.053	0	9.96	50	A
1,3,5-Trimethylbenzene	2.700	2.980	0	10.4	50	A
Vinyl chloride	0.544	0.474	0	-13	20	A
o-Xylene	1.182	1.378	0	16.6	50	A
1,2-Dibromo-3-chloropropane	50.0	53.0	0	6	50	L
1,2-Dibromoethane	0.484	0.551	0	13.9	50	A
Vinyl acetate	0.718	0.772	0	7.6	50	A
tert-Butyl methyl ether (MTBE)	0.726	0.692	0	-4.62	50	A
1,2-Dichloroethene	0.468	0.483	0	3.28	50	A
4-Isopropyltoluene	2.971	3.343	0	12.5	50	A
Xylene (total)	1.201	1.376	0	14.6	50	A
Methylcyclohexane	0.441	0.510	0	15.4	50	A
n-Hexane	0.540	0.516	0	-4.58	50	A
trans-1,4-Dichloro-2-butene	0.110	0.114	0	3.92	50	A
Cyclohexane	0.555	0.607	0	9.42	50	A
2,2-Dichloropropane	0.346	0.381	0	10.3	50	A
Methyl Acetate	0.228	0.183	0	-19.5	50	A
Trichlorotrifluoroethane	0.312	0.310	0	-.8	50	A
1,1-Dichloropropene	0.357	0.401	0	12.6	50	A
2-Chloroethylvinyl ether	50.0	53.2	0	6.4	50	L
1,3-Dichloropropane	1.018	1.125	0	10.5	50	A
Bromobenzene	1.790	1.915	0	7.02	50	A
2-Chlorotoluene	2.732	3.007	0	10.1	50	A
4-Chlorotoluene	2.465	2.737	0	11.1	50	A
tert-Butylbenzene	1.773	2.011	0	13.5	50	A
sec-Butylbenzene	3.793	4.181	0	10.2	50	A
1,3-Dichlorobenzene	1.594	1.796	0	12.6	50	A
1,4-Dichlorobenzene	1.623	1.756	0	8.22	50	A
n-Butylbenzene	3.195	3.573	0	11.8	50	A
1,2-Dichlorobenzene	1.467	1.609	0	9.71	50	A
Hexachlorobutadiene	0.399	0.476	0	19.2	50	A
Naphthalene	1.965	2.221	0	13	50	A
1,2,3-Trichlorobenzene	0.799	0.927	0	16	50	A
1-Bromo-2-chloroethane	50.0	54.5	0	9	50	L

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date: 02/19/05 Time: 1208

Lab File ID: 2050219P/U0255

Init. Calib. Date 1: 02/14/05 Time 1: 1229

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 02/19/05 Time 2: 0941

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

Analytical Batch: 287754

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
1,3-Dichloropropylene	0.411	0.476		15.9		A
1,1-Dichloroethene	0.289	0.282	0	-2.32	20	A
Benzene	1.224	1.331	0	8.8	50	A
Trichloroethene	0.250	0.276	0	10.5	50	A
Toluene	2.851	3.148	0	10.4	20	A
Chlorobenzene	1.763	1.880	.3	6.64	50	A
4-Bromofluorobenzene	0.712	0.519	0	-27.1	50	A
Dibromofluoromethane	0.276	0.205	0	-25.6	50	A
Toluene-d8	2.169	1.511	0	-30.3	50	A
1,2-Dichloroethane-d4	0.149	0.102	0	-31.1	50	A

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Data file : /var/chem/msv0.i/2050219p.s.b/u0255.d
Lab Smp Id: 1400 Client Smp ID: V0STD050
Inj Date : 19-FEB-2005 12:08
Operator : KCB Inst ID: msv0.i
Smp Info : 1400*V0STD050*5-25-4
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 21-Feb-2005 08:03 rsp Quant Type: ISTD
Cal Date : 19-FEB-2005 08:00 Cal File: u0246.d
Als bottle: 3 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/Ws)/((100-M)/100) * CpndVariable

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

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	1.903	1.903	(0.307)	71274	50.0000	39.9	9099
2 Chloromethane ++	50	2.108	2.108	(0.340)	89898	50.0000	35.1	8913
3 Vinyl Chloride +	62	2.220	2.220	(0.358)	103304	50.0000	43.5	9114
4 Bromomethane	94	2.590	2.590	(0.418)	41556	50.0000	32.1	9204
5 Chloroethane	64	2.703	2.703	(0.436)	50309	50.0000	46.6	8584
6 Trichlorofluoromethane	101	2.954	2.954	(0.477)	91180	50.0000	46.0	9665
7 Acrolein	56	3.548	3.548	(0.572)	35346	250.000	238	8282(A)
9 1,1,2Trichlotrifluoroethane	101	3.529	3.529	(0.569)	67607	50.0000	49.6	8690
8 1,1-Dichloroethene +	96	3.568	3.568	(0.576)	61597	50.0000	48.8	8696
10 Acetone	43	3.714	3.714	(0.599)	39026	50.0000	45.6	2379
11 Methyl Iodide	142	3.760	3.760	(0.607)	70663	50.0000	47.6	7689
12 Carbon Disulfide	76	3.800	3.800	(0.613)	263510	50.0000	47.1	8484
106 Methyl Acetate	43	4.018	4.018	(0.648)	39922	50.0000	40.2	8945

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.143	4.143	(0.668)	113115	50.0000	46.1	9184
14 Acrylonitrile	53	4.454	4.454	(0.719)	127219	250.000	241	7625(A)
15 trans-1,2-Dichloroethene	61	3.568	3.568	(0.576)	95568	50.0000	47.2	8837
16 MTBE	73	4.335	4.335	(0.699)	151021	50.0000	47.7	9085
17 Hexane	57	4.533	4.533	(0.731)	112498	50.0000	47.7	8932
19 Vinyl Acetate	43	4.817	4.817	(0.777)	168531	50.0000	53.8	
18 1,1-Dichloroethane ++	63	4.791	4.791	(0.773)	131007	50.0000	54.1	9351
22 2-Butanone	43	5.333	5.333	(0.860)	52946	50.0000	56.4	
21 cis-1,2-Dichloroethene	61	5.306	5.306	(0.856)	115380	50.0000	56.1	9306
20 2,2-Dichloropropane	77	5.280	5.280	(0.852)	83179	50.0000	55.1	9730
23 Bromochloromethane	128	5.518	5.518	(0.890)	29112	50.0000	57.8	9076
24 Chloroform +	83	5.557	5.557	(0.897)	106642	50.0000	55.1	9781
$ 25 Dibromofluoromethane	111	5.696	5.696	(0.919)	44666	50.0000	37.2	9316
26 1,1,1-Trichloroethane	97	5.676	5.676	(0.916)	85151	50.0000	53.4	8634
105 Cyclohexane	56	5.663	5.663	(0.914)	132415	50.0000	54.7	8335
27 1,1-Dichloropropene	75	5.809	5.809	(0.937)	87579	50.0000	56.3	9482
28 Carbon Tetrachloride	117	5.782	5.782	(0.933)	65980	50.0000	53.9	9557
$ 32 1,2-Dichloroethane-d4	67	5.987	5.987	(0.966)	22317	50.0000	34.4	8774
33 Benzene	78	5.974	5.974	(0.964)	290487	50.0000	54.4	9043
34 1,2-Dichloroethane	62	6.046	6.046	(0.975)	72169	50.0000	52.6	8954
* 35 FLUOROBENZENE	96	6.198	6.198	(1.000)	218171	50.0000		9600
36 Trichloroethene	130	6.463	6.463	(1.043)	60245	50.0000	55.3	9654
40 Methyl cyclohexane	83	6.555	6.555	(1.058)	111187	50.0000	57.7	9595
37 1,2-Dichloropropane +	63	6.674	6.674	(1.077)	80680	50.0000	56.2	9011
M 31 Total 1,2-Dichloroethene	61				210948	100.000	103	0
38 Dibromomethane	93	6.773	6.773	(1.093)	35080	50.0000	55.8	9450
39 Bromodichloromethane	83	6.866	6.866	(1.108)	76921	50.0000	56.4	9630
41 2-Chloroethyl vinyl ether	63	7.064	7.064	(1.140)	22375	50.0000	53.2	7156(H)
42 1-Bromo-2-chloroethane	144	7.124	7.124	(1.149)	8828	50.0000	54.5	9247
44 cis-1,3-Dichloropropene	75	7.190	7.190	(1.160)	108212	50.0000	57.9	
45 4-methyl-2-pentanone	43	7.864	7.864	(1.269)	67496	50.0000	45.4	
$ 46 Toluene-d8	98	7.348	7.348	(0.873)	140792	50.0000	34.8	9105
47 Toluene +	91	7.401	7.401	(0.879)	293268	50.0000	55.2	9322
51 trans-1,3-Dichloropropene	75	7.599	7.599	(0.903)	99479	50.0000	56.9	
M 146 1-3 Dichloropropene-Total	100				207691	100.000	116	0
52 1,1,2-Trichloroethane	97	7.738	7.738	(0.919)	51437	50.0000	54.2	9385
53 1,3-Dichloropropane	76	7.864	7.864	(0.934)	104748	50.0000	55.3	9535
54 Tetrachloroethene	164	7.778	7.778	(0.924)	50434	50.0000	56.8	9690
55 2-Hexanone	43	7.276	7.276	(0.864)	83061	50.0000	71.2	8704
56 Dibromochloromethane	129	8.016	8.016	(0.952)	57484	50.0000	54.7	9548
57 1,2-Dibromoethane(EDB)	107	8.121	8.121	(0.965)	51311	50.0000	57.0	9539
* 58 Chlorobenzene-d5	82	8.419	8.419	(1.000)	93148	50.0000		9381
59 Chlorobenzene ++	112	8.439	8.439	(1.002)	175155	50.0000	53.3	9591
60 1,1,1,2-Tetrachloroethane	133	8.491	8.491	(1.009)	56993	50.0000	55.8	6779
61 Ethylbenzene +	106	8.465	8.465	(1.005)	100158	50.0000	56.4	9289
62 p,m-Xylene	106	8.551	8.551	(1.016)	256140	100.000	114	9814
63 o-Xylene	106	8.842	8.842	(1.050)	128383	50.0000	58.3	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	64 Styrene	104	8.855	8.855	(1.052)	227569	50.0000	57.8	9535
	65 Bromoform ++	173	9.033	9.033	(1.073)	42596	50.0000	56.2	9557
	66 Isopropylbenzene	105	9.073	9.073	(1.078)	324861	50.0000	57.7	9814
$	67 Bromofluorobenzene	174	9.232	9.232	(1.097)	48316	50.0000	36.4	9645
	68 1,1,2,2-Tetrachloroethane++	83	9.318	9.318	(0.933)	79896	50.0000	53.6	5104
	69 trans-1,4-Dichloro-2-Butene	53	9.450	9.450	(0.946)	10700	50.0000	52.0	8521
	70 1,2,3-Trichloropropane	75	9.364	9.364	(0.938)	98729	50.0000	53.7	7273
	71 Bromobenzene	77	9.344	9.344	(0.936)	179709	50.0000	53.5	7543
	72 n-Propylbenzene	91	9.344	9.344	(0.936)	450073	50.0000	54.9	8553
	73 2-Chlorotoluene	91	9.450	9.450	(0.946)	282140	50.0000	55.0	7275 (H)
	74 1,3,5-Trimethylbenzene	105	9.450	9.450	(0.946)	279588	50.0000	55.2	
	75 4-Chlorotoluene	91	9.522	9.522	(0.954)	256834	50.0000	55.5	9774
	76 tert-butylbenzene	91	9.668	9.668	(0.968)	188717	50.0000	56.7	9713
	77 1,2,4-Trimethylbenzene	105	9.707	9.707	(0.972)	286462	50.0000	55.0	
	78 sec-Butylbenzene	105	9.807	9.807	(0.982)	392302	50.0000	55.1	
	79 p-Isopropyltoluene	119	9.892	9.892	(0.991)	313642	50.0000	56.3	9807
	80 1,3-Dichlorobenzene	146	9.945	9.945	(0.996)	168485	50.0000	56.3	
*	81 1,4-DICHLOROBENZENE-D4	152	9.985	9.985	(1.000)	93827	50.0000		9796
	82 1,4-Dichlorobenzene	146	10.005	10.005	(1.002)	164752	50.0000	54.1	
	83 n-Butylbenzene	91	10.150	10.150	(1.017)	335225	50.0000	55.9	9768
	85 1,2-Dichlorobenzene	146	10.249	10.249	(1.026)	150997	50.0000	54.9	
	86 1,2-Dibromo-3-Chloropropane	157	10.765	10.765	(1.078)	14581	50.0000	53.0	9370
M	84 TOTAL XYLENE	106				384523	150.000	172	0
	87 1,2,4-Trichlorobenzene	180	11.287	11.287	(1.130)	98414	50.0000	58.9	
	88 Hexachlorobutadiene	225	11.333	11.333	(1.135)	44685	50.0000	59.6	9471
	89 Napthalene	128	11.478	11.478	(1.150)	208374	50.0000	56.5	0 (M)
	90 1,2,3-Trichlorobenzene	180	11.650	11.650	(1.167)	86961	50.0000	58.0	

QC Flag Legend

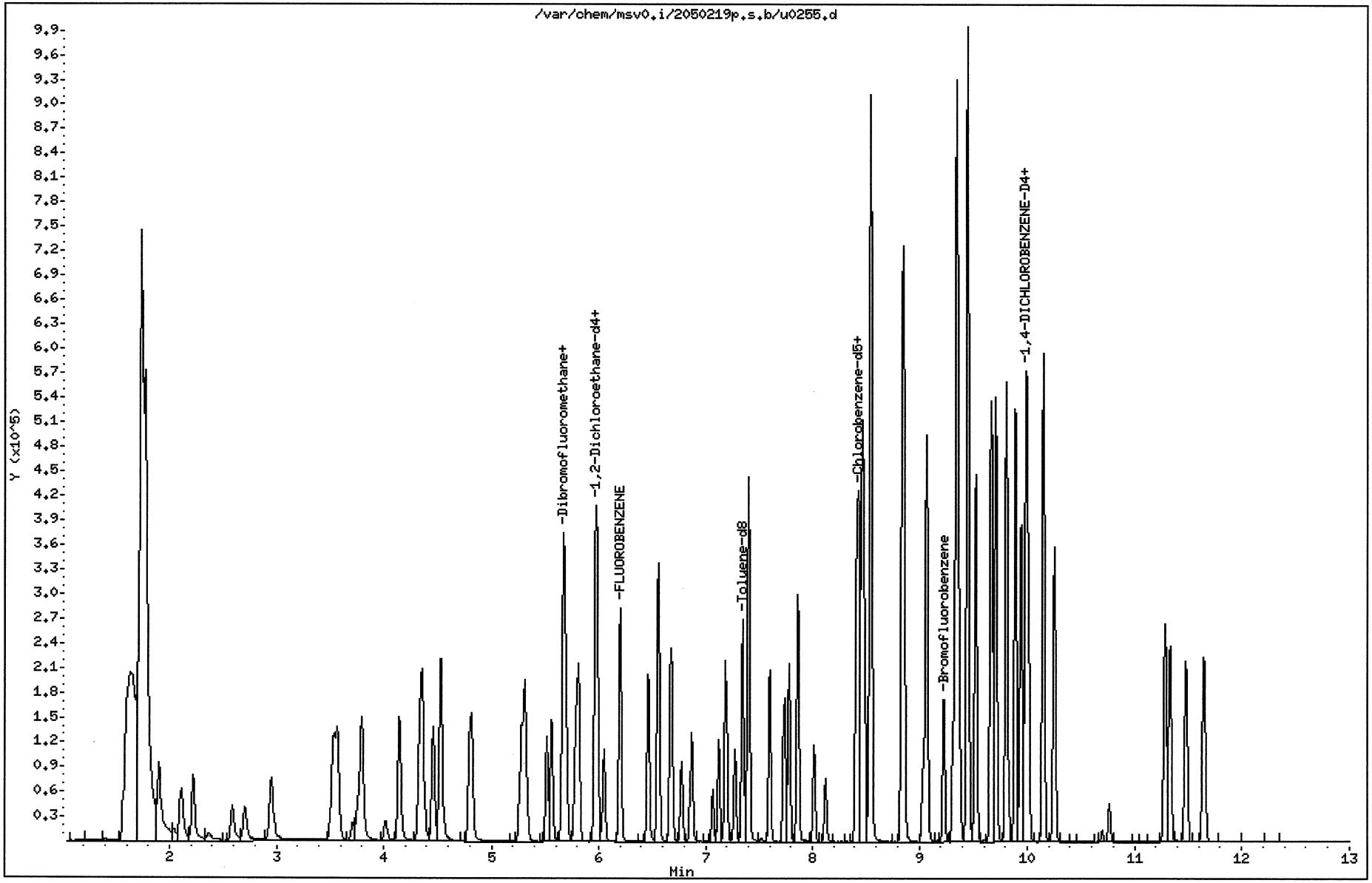
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2050219p.s.b/u0255.d
Date : 19-FEB-2005 12:08
Client ID: VOSTD050
Sample Info: 1400*VOSTD050*5-25-4

Column phase: DB-624-30M

Instrument: msv0.i

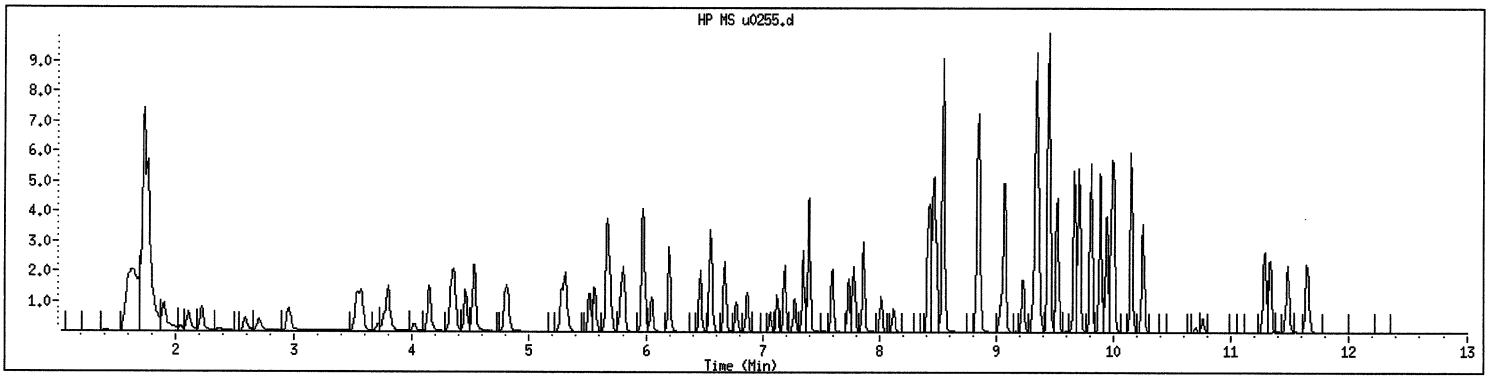
Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv0.i/2050219p.s.b/u0255.d
Report Date: 02/21/2005 08:04

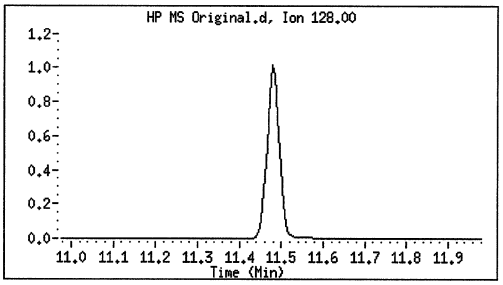
MANUAL INTEGRATION GRAPHIC REPORT

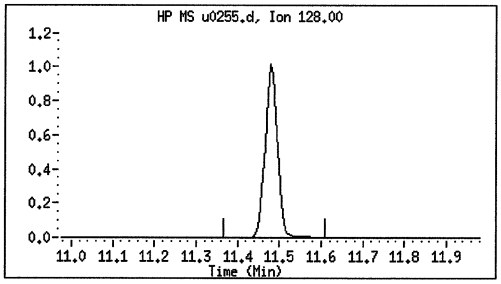
Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 19-FEB-2005 12:08	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1400*V0STD050*5-25-4		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original | Final

89 Napthalene CAS#: 91-20-3





7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV0

Calibration Date: 02/19/05 Time: 1246

Lab File ID: 2050219P/U0256

Init. Calib. Date 1: 02/14/05 Time 1: 1229

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 02/19/05 Time 2: 0941

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

Analytical Batch: 287754

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
Benzal chloride	100.0	80.6	0	-19.4	50	L
Ethyl methacrylate	0.967	1.015	0	5.01	50	A
Isobutyl alcohol	0.081	0.080	0	-1.01	50	A
Chloroprene	0.480	0.485	0	1.11	50	A
Methyl methacrylate	0.420	0.429	0	2.02	50	A
Propiontrile	0.042	0.044	0	4.86	50	A
1,4 Dioxane	1250	1330	0	6.4	50	L
1,3-Butadiene	0.327	0.285	0	-12.6	50	A
1,5-Cyclooctadiene	1.221	1.253	0	2.68	50	A
Diethyl ether	0.254	0.257	0	1.28	50	A
Cyclohexanone	50.0	53.9	0	7.8	50	L
2,3-Dichloro-1-propene	0.523	0.516	0	-1.33	50	A
Isopropyl Ether	1.541	1.577	0	2.34	50	A
Acetonitrile	0.052	0.050	0	-3.48	50	A
Allyl chloride	0.353	0.348	0	-1.6	50	A
sec-Butanol	100.0	96.0		-4		L
t-Butanol	50.0	51.7	0	3.4	50	L
Ethyl acetate	250.0	246.0	0	-1.6	50	L
n-Butyl alcohol	250.0	262.0	0	4.8	50	L
Pentachloroethane	0.187	0.192	0	2.86	50	A
1-Nitropropane	0.076	0.075		-1.52		A
2-Nitropropane	50.0	47.0		-6		L
Methacrylonitrile		0.00		0		

GCAL, Inc.

Data file : /var/chem/msv0.i/2050219p.s.b/u0256.d
Lab Smp Id: 1400 Client Smp ID: V0APSTD050
Inj Date : 19-FEB-2005 12:46
Operator : KCB Inst ID: msv0.i
Smp Info : 1400*V0APSTD050*5-19-10
Misc Info : MSV~5839~*1*KCB
Comment :
Method : /var/chem/msv0.i/2050219p.s.b/8260Bs0.m
Meth Date : 21-Feb-2005 07:28 kcb Quant Type: ISTD
Cal Date : 19-FEB-2005 08:00 Cal File: u0246.d
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: APP9.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
* 35 FLUOROBENZENE	96	6.199	6.199	(1.000)	228404	50.0000		9560
* 58 Chlorobenzene-d5	82	8.420	8.420	(1.000)	95965	50.0000		8735
* 81 1,4-DICHLOROBENZENE-D4	152	9.992	9.992	(1.000)	85560	50.0000		7991
91 Ethyl Ether	59	3.311	3.311	(0.534)	293344	250.000	253	3054
92 Acetonitrile	41	4.085	4.085	(0.659)	57004	250.000	241	924 (H)
93 Allyl Chloride	39	3.985	3.985	(0.643)	79389	50.0000	49.2	0 (M)
94 tert-butyl alcohol	59	4.263	4.263	(0.688)	6624	50.0000	51.7	0 (M)
95 Chloroprene	53	4.838	4.838	(0.780)	110851	50.0000	50.6	3341
96 Proprionitrile	54	5.452	5.452	(0.880)	50147	250.000	262	2843
97 Ethyl Acetate	43	5.333	5.333	(0.860)	364701	250.000	246	3433
98 Isopropyl Ether	45	4.765	4.765	(0.769)	360100	50.0000	51.2	2439
99 Methyl Methacrylate	69	6.701	6.701	(1.081)	97953	50.0000	51.0	4110
101 2,3-Dichloro-1-propene	75	6.695	6.695	(1.080)	117938	50.0000	49.3	3989

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
102 Ethyl Methacrylate	41	7.580	7.580	(0.900)	97427	50.0000	52.5	2843
100 1,4-Dioxane	58	6.754	6.754	(1.090)	12098	1250.00	1330	2843
103 1,3 Butadiene	39	2.254	2.254	(0.364)	65200	50.0000	43.7	0 (M)
111 Isobutyl Alcohol	43	5.935	5.935	(0.957)	91155	250.000	247	2843 (M)
112 Benzal chloride	125	11.089	11.089	(1.110)	18036	100.000	80.6	924
113 N-Butyl Alcohol	56	6.417	6.417	(1.035)	11669	250.000	262	2843 (H)
114 2-Butanol	45	5.459	5.459	(0.881)	8058	100.000	96.0	2439 (M)
115 Pentachloroethane	167	9.741	9.741	(1.571)	43914	50.0000	51.4	5392
116 Cyclohexanone	55	9.226	9.226	(1.488)	40183	50.0000	53.9	7477
150 1-Nitropropane	43	7.078	7.078	(1.142)	17162	50.0000	49.2	0 (M)
151 2-Nitroprpoane	43	7.627	7.627	(1.230)	12991	50.0000	47.0	0 (M)
152 1-5 Cyclooctadiene	67	9.160	9.160	(1.088)	120288	50.0000	51.3	2014
153 2-2-4 trimethyl Pentane	57	5.935	5.935	(0.957)	329895	50.0000		924 (a)

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.

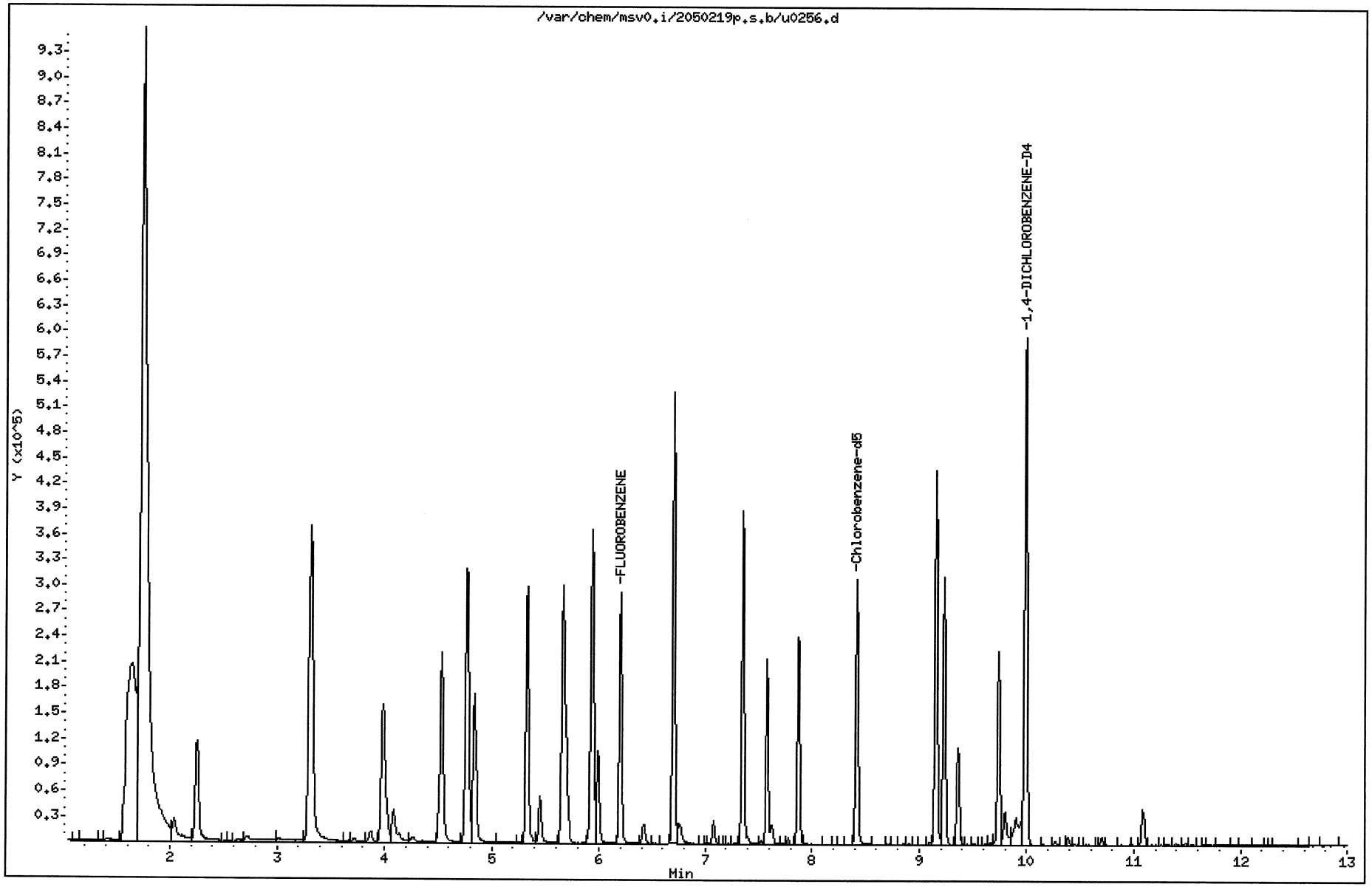
Data File: /var/chem/msv0.i/2050219p.s.b/u0256.d
Date : 19-FEB-2005 12:46
Client ID: V0APSTD050
Sample Info: 1400*V0APSTD050*5-19-10

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

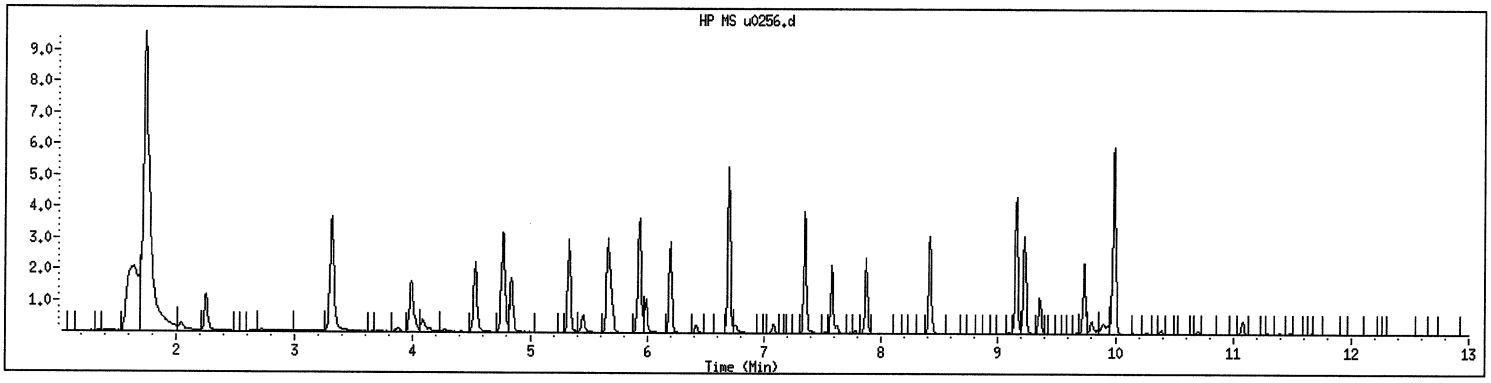
000111



Data file : /var/chem/msv0.i/2050219p.s.b/u0256.d
Report Date: 02/21/2005 07:28

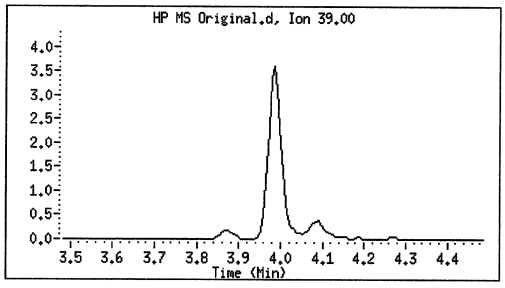
MANUAL INTEGRATION GRAPHIC REPORT

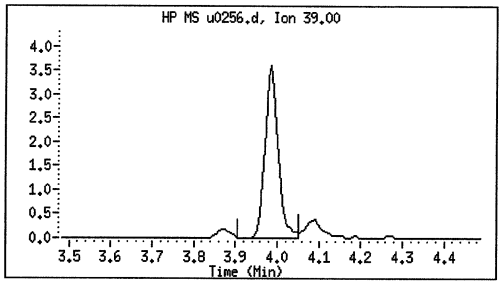
Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 19-FEB-2005 12:46	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1400*V0APSTD050*5-19-10		
Misc Info	: MSV~5839~*1*KCB		
Method	: /var/chem/msv0.i/2050219p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: APP9



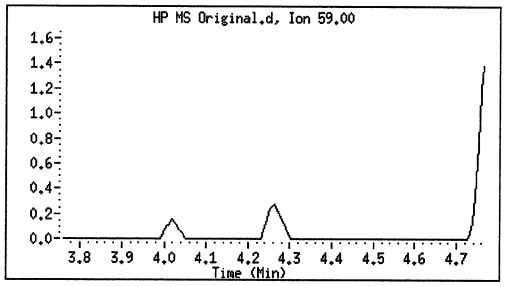
Original | Final

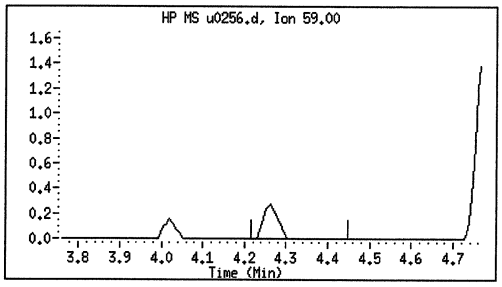
93 Allyl Chloride CAS#: 107-05-1





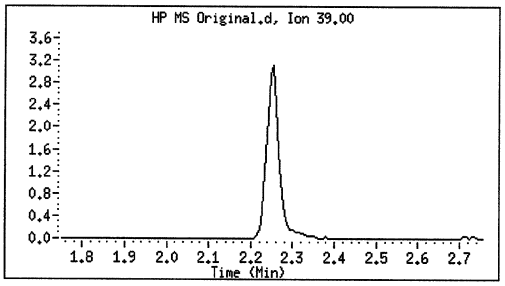
94 tert-butyl alcohol CAS#: 75-65-0

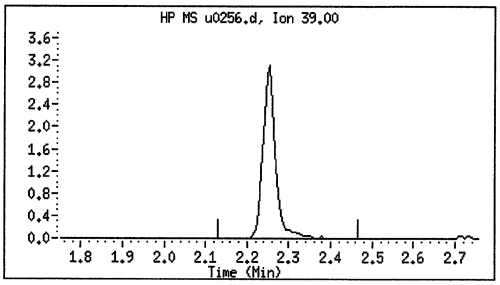




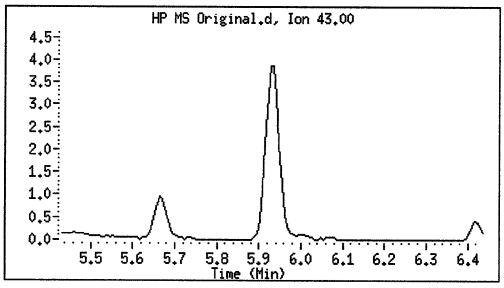
Original | Final

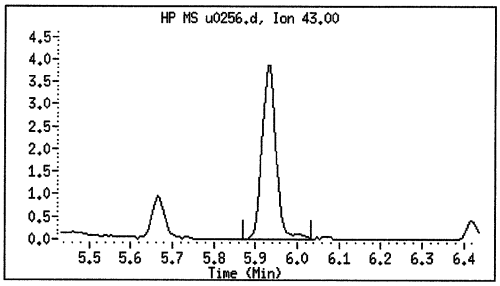
103 1,3 Butadiene CAS#: 106-99-0



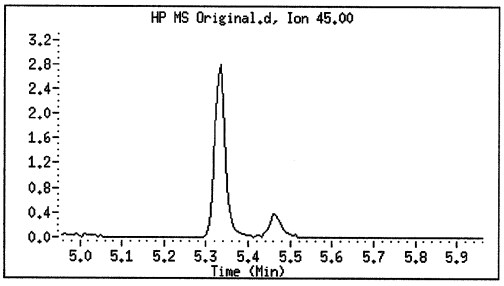


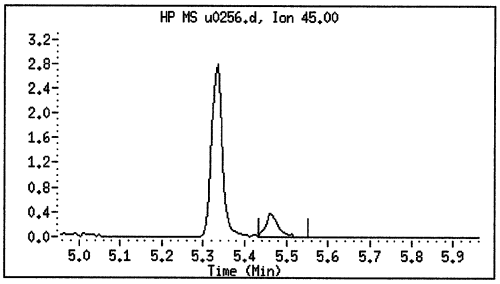
111 Isobutyl Alcohol CAS#: 78-83-1



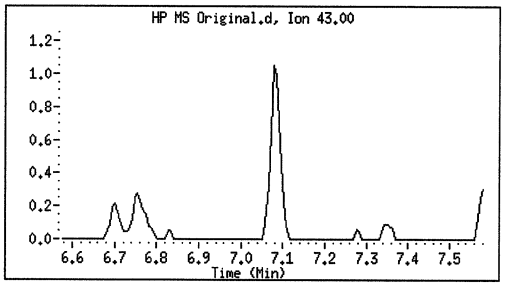


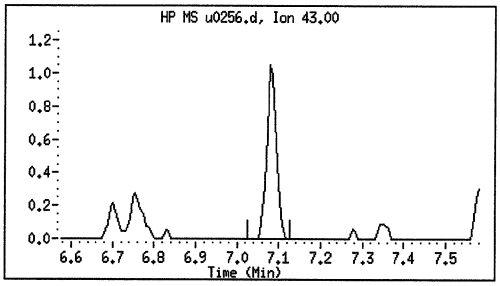
114 2-Butanol CAS#: 15892-23-6



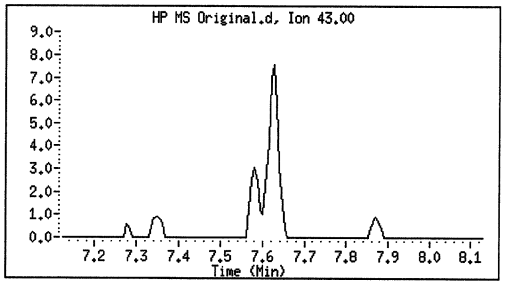


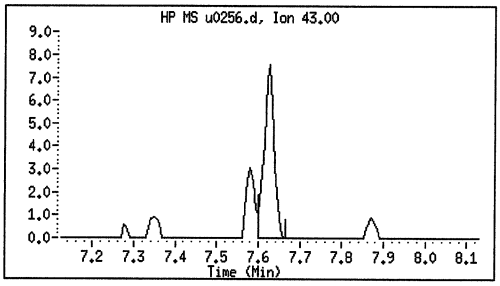
150 1-Nitropropane CAS#: 108-03-2





151 2-Nitroprpoane CAS#: 79-46-9





GCAL, Inc.

Data file : /var/chem/msv0.i/2050214p.s.b/u0141.d
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Inj Date : 14-FEB-2005 12:29
Operator : KCB Inst ID: msv0.i
Smp Info : 1206*V0STD002*5-24-3
Misc Info : MSV~5821~*1*KCB
Comment :
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Meth Date : 15-Feb-2005 17:44 rfs Quant Type: ISTD
Cal Date : 14-FEB-2005 12:29 Cal File: u0141.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b+CAP.sub
Target Version: 3.50
Processing Host: hpcs2

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

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

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	1.918	1.918	(0.309)	3053	2.00000	1.70	3080(a)
2 Chloromethane ++	50	2.123	2.123	(0.342)	5779	2.00000	2.24	4547
3 Vinyl Chloride +	62	2.235	2.235	(0.360)	4191	2.00000	1.76	4406
4 Bromomethane	94	2.605	2.605	(0.419)	3265	2.00000	4.80	4453
5 Chloroethane	64	2.724	2.724	(0.438)	1972	2.00000	1.82	0(M)
6 Trichlorofluoromethane	101	2.975	2.975	(0.479)	3485	2.00000	1.75	3667
7 Acrolein	56	3.557	3.557	(0.572)	1125	10.0000	7.52	6581
9 1,1,2Trichlotrifluoroethane	101	3.550	3.550	(0.571)	2406	2.00000	1.76	6169
8 1,1-Dichloroethene +	96	3.583	3.583	(0.577)	2403	2.00000	1.90	5664
10 Acetone	43	3.729	3.729	(0.600)	4010	2.00000	3.62	2167
11 Methyl Iodide	142	3.788	3.788	(0.610)	2737	2.00000	1.83	4912
12 Carbon Disulfide	76	3.815	3.815	(0.614)	11144	2.00000	1.98	7771
106 Methyl Acetate	43	4.033	4.033	(0.649)	2581	2.00000	2.59	0(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.165	4.165	(0.670)	6569	2.00000	2.66	7309
14 Acrylonitrile	53	4.469	4.469	(0.719)	4849	10.0000	9.14	6466
15 trans-1,2-Dichloroethene	61	4.376	4.376	(0.704)	3694	2.00000	1.81	6483
16 MTBE	73	4.357	4.357	(0.701)	5877	2.00000	1.85	6163
17 Hexane	57	4.548	4.548	(0.732)	5483	2.00000	2.31	7743(a)
19 Vinyl Acetate	43	4.832	4.832	(0.778)	5989	2.00000	1.90	
18 1,1-Dichloroethane ++	63	4.813	4.813	(0.775)	4520	2.00000	1.86	0(M)
22 2-Butanone	43	5.348	5.348	(0.861)	3156	2.00000	3.34	
21 cis-1,2-Dichloroethene	61	5.321	5.321	(0.856)	3396	2.00000	1.64	7341
20 2,2-Dichloropropane	77	5.288	5.288	(0.851)	2418	2.00000	1.59	0(M)
23 Bromochloromethane	128	5.526	5.526	(0.889)	629	2.00000	1.24	0(M)
24 Chloroform +	83	5.573	5.573	(0.897)	3638	2.00000	1.87	7358
$ 25 Dibromofluoromethane	111	5.711	5.711	(0.919)	2289	2.00000	1.89	6506
26 1,1,1-Trichloroethane	97	5.691	5.691	(0.916)	2988	2.00000	1.86	7694
105 Cyclohexane	56	5.678	5.678	(0.914)	4342	2.00000	1.78	7410(a)
27 1,1-Dichloropropene	75	5.824	5.824	(0.937)	2651	2.00000	1.69	6558
28 Carbon Tetrachloride	117	5.797	5.797	(0.933)	2193	2.00000	1.78	6659
$ 32 1,2-Dichloroethane-d4	67	6.002	6.002	(0.966)	1273	2.00000	1.95	8137
33 Benzene	78	5.989	5.989	(0.964)	10310	2.00000	1.92	8172
34 1,2-Dichloroethane	62	6.068	6.068	(0.977)	2388	2.00000	1.73	0(M)
* 35 FLUOROBENZENE	96	6.214	6.214	(1.000)	219335	50.0000		9628
36 Trichloroethene	130	6.478	6.478	(1.043)	1998	2.00000	1.82	7382
40 Methyl cyclohexane	83	6.570	6.570	(1.057)	3321	2.00000	1.71	8323(a)
37 1,2-Dichloropropane +	63	6.689	6.689	(1.077)	2486	2.00000	1.72	7576
M 31 Total 1,2-Dichloroethene	61				7090	4.00000	3.45	0
38 Dibromomethane	93	6.788	6.788	(1.093)	752	2.00000	1.19	0(M)
39 Bromodichloromethane	83	6.881	6.881	(1.107)	2362	2.00000	1.72	6483
44 cis-1,3-Dichloropropene	75	7.205	7.205	(1.160)	3071	2.00000	1.63	(M)
45 4-methyl-2-pentanone	43	7.291	7.291	(1.173)	2500	2.00000	1.67	(M)
$ 46 Toluene-d8	98	7.363	7.363	(0.873)	7899	2.00000	2.15	8692
47 Toluene +	91	7.410	7.410	(0.879)	9612	2.00000	1.99	0(M)
50 1-Chlorohexane	91	8.374	8.374	(1.348)	2740	2.00000	1.59	924(a)
51 trans-1,3-Dichloropropene	75	7.614	7.614	(0.903)	2736	2.00000	1.72	(M)
M 146 1-3 Dichloropropene-Total	100				5807	4.00000	3.22	0(a)
52 1,1,2-Trichloroethane	97	7.753	7.753	(0.919)	1563	2.00000	1.81	0(M)
53 1,3-Dichloropropane	76	7.879	7.879	(0.934)	3057	2.00000	1.77	7400
54 Tetrachloroethene	164	7.800	7.800	(0.925)	1492	2.00000	1.85	6993
55 2-Hexanone	43	7.885	7.885	(0.935)	1391	2.00000	1.31	0(M)
56 Dibromochloromethane	129	8.031	8.031	(0.952)	1595	2.00000	1.67	5401
57 1,2-Dibromoethane(EDB)	107	8.137	8.137	(0.965)	1331	2.00000	1.63	0(M)
* 58 Chlorobenzene-d5	82	8.434	8.434	(1.000)	84680	50.0000		8847
59 Chlorobenzene ++	112	8.454	8.454	(1.002)	6262	2.00000	2.10	4021
60 1,1,1,2-Tetrachloroethane	133	8.507	8.507	(1.009)	1540	2.00000	1.66	4824
61 Ethylbenzene +	106	8.487	8.487	(1.006)	2953	2.00000	1.83	8362
62 p,m-Xylene	106	8.566	8.566	(1.016)	7558	4.00000	3.69	9452
63 o-Xylene	106	8.857	8.857	(1.050)	3222	2.00000	1.61	
64 Styrene	104	8.870	8.870	(1.052)	5946	2.00000	1.66	9006

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	65 Bromoform ++	173	9.048	9.048	(1.073)	714	2.00000	1.04	0 (M)
	66 Isopropylbenzene	105	9.082	9.082	(1.077)	8648	2.00000	1.69	8531
$	67 Bromofluorobenzene	174	9.247	9.247	(1.096)	2065	2.00000	1.71	7394
	68 1,1,2,2-Tetrachloroethane++	83	9.333	9.333	(0.933)	2060	2.00000	1.82	0 (M)
	70 1,2,3-Trichloropropane	75	9.386	9.386	(0.938)	2509	2.00000	1.80	0 (M)
	71 Bromobenzene	77	9.359	9.359	(0.935)	4635	2.00000	1.82	7185
	72 n-Propylbenzene	91	9.359	9.359	(0.935)	11226	2.00000	1.80	8147
	73 2-Chlorotoluene	91	9.465	9.465	(0.946)	7053	2.00000	1.81	6645 (H)
	74 1,3,5-Trimethylbenzene	105	9.465	9.465	(0.946)	6718	2.00000	1.75	
	75 4-Chlorotoluene	91	9.537	9.537	(0.953)	6302	2.00000	1.80	8093
	76 tert-butylbenzene	91	9.683	9.683	(0.968)	4264	2.00000	1.69	8011
	77 1,2,4-Trimethylbenzene	105	9.723	9.723	(0.972)	7047	2.00000	1.78	
	78 sec-Butylbenzene	105	9.828	9.828	(0.982)	9948	2.00000	1.84	
	79 p-Isopropyltoluene	119	9.908	9.908	(0.990)	7699	2.00000	1.82	8585
	80 1,3-Dichlorobenzene	146	9.960	9.960	(0.995)	4187	2.00000	1.85	
*	81 1,4-DICHLOROBENZENE-D4	152	10.007	10.007	(1.000)	71159	50.0000		8097
	82 1,4-Dichlorobenzene	146	10.020	10.020	(1.001)	4677	2.00000	2.03	
	83 n-Butylbenzene	91	10.172	10.172	(1.016)	8651	2.00000	1.90	8784
	85 1,2-Dichlorobenzene	146	10.271	10.271	(1.026)	4122	2.00000	1.97	
M	84 TOTAL XYLENE	106				10780	6.00000	5.30	0
	87 1,2,4-Trichlorobenzene	180	11.315	11.315	(1.131)	2254	2.00000	1.78	(M)
	88 Hexachlorobutadiene	225	11.355	11.355	(1.135)	923	2.00000	1.62	0 (M)
	89 Napthalene	128	11.507	11.507	(1.150)	4965	2.00000	1.78	5163
	90 1,2,3-Trichlorobenzene	180	11.679	11.679	(1.167)	2000	2.00000	1.76	(M)

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.

000117

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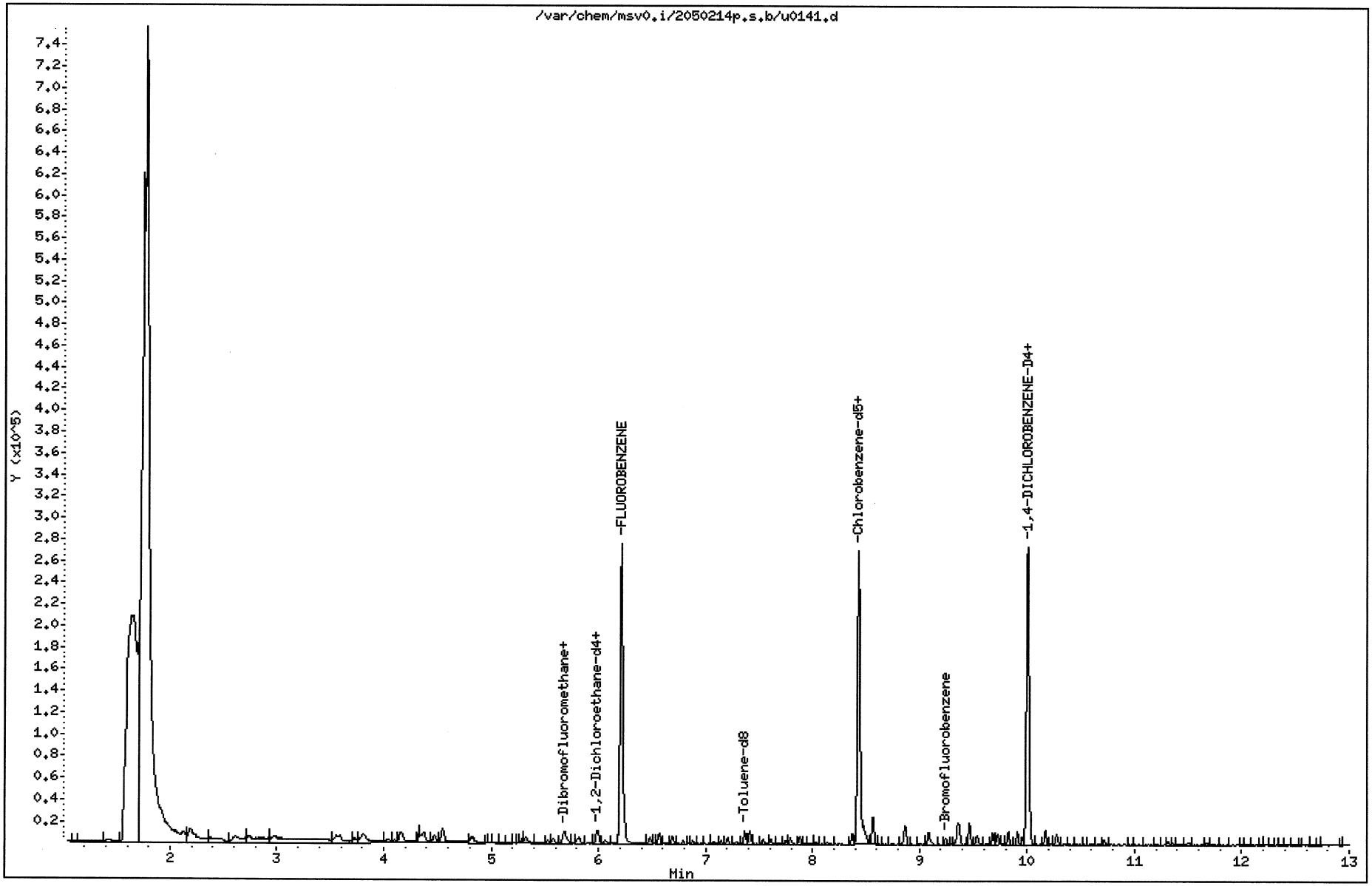
Date : 14-FEB-2005 12:29
Client ID: V0STD002
Sample Info: 1206*V0STD002*5-24-3

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53



Data file : /var/chem/msv0.i/2050214p.s.b/u0141.d
Report Date: 02/15/2005 17:44

MANUAL INTEGRATION GRAPHIC REPORT

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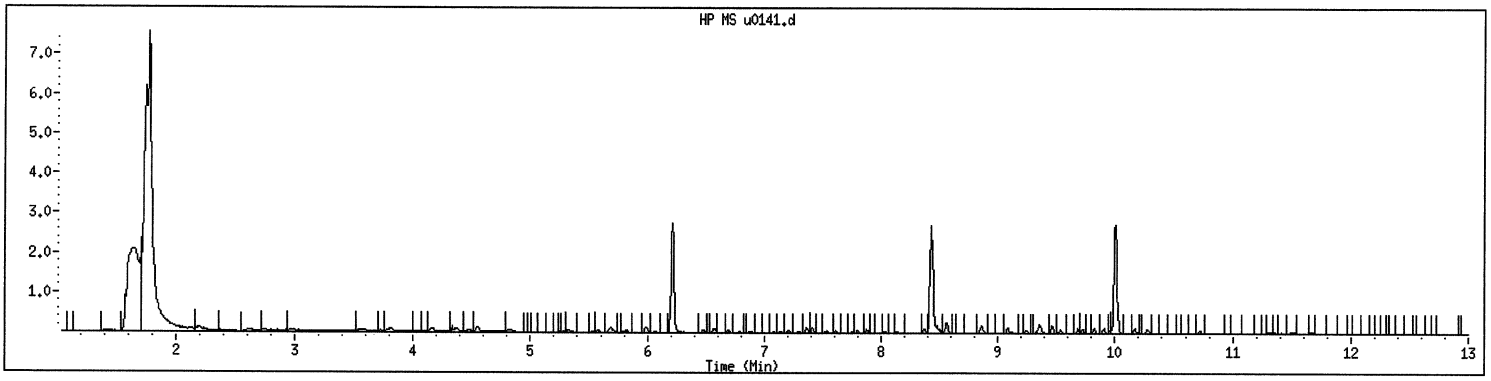
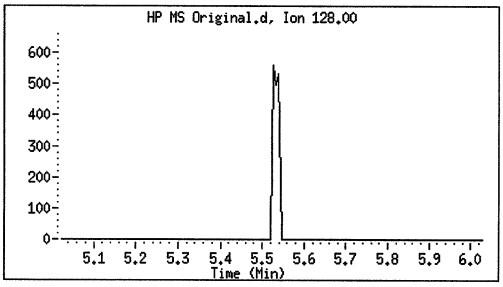
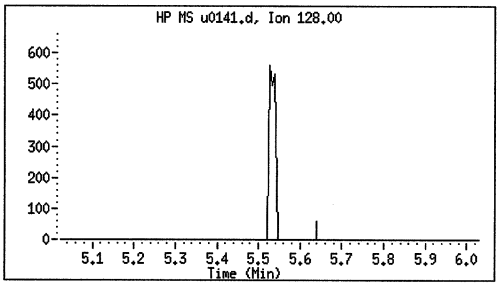
Injection Date	: 14-FEB-2005 12:29	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1206*V0STD002*5-24-3		
Misc Info	: MSV~5821~*1*KCB		
Method	: /var/chem/msv0.i/2050214p.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b+CAP



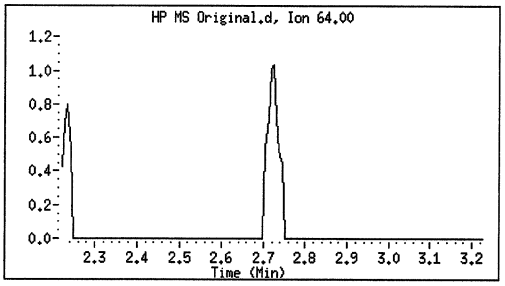
Original | Final

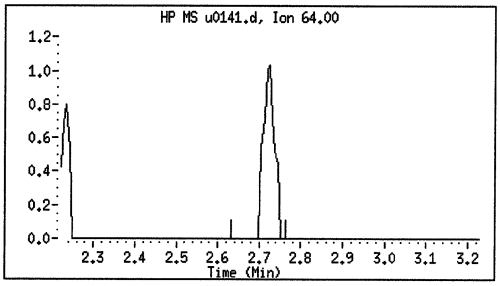
23 Bromochloromethane CAS#: 74-97-5





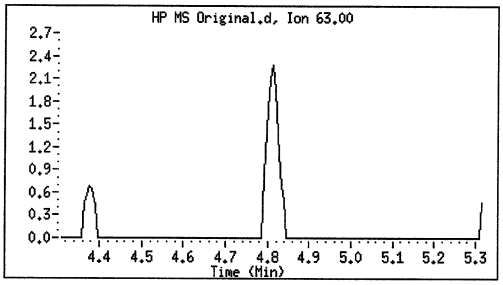
5 Chloroethane CAS#: 75-00-3

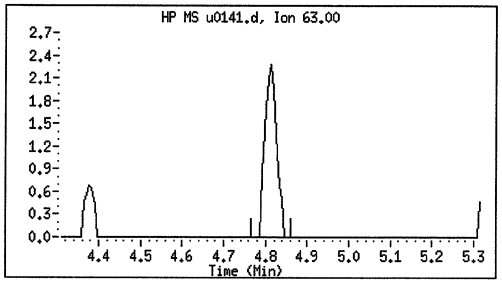




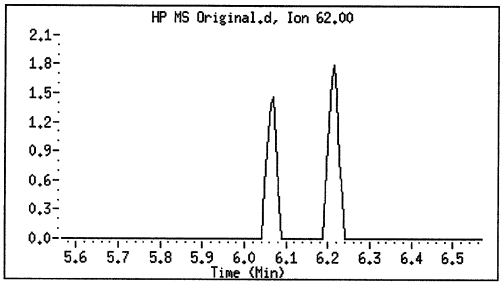
Original Final

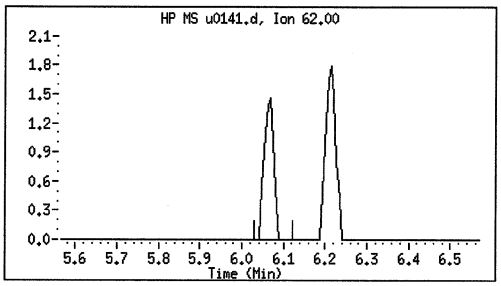
18 1,1-Dichloroethane ++ CAS#: 75-34-3



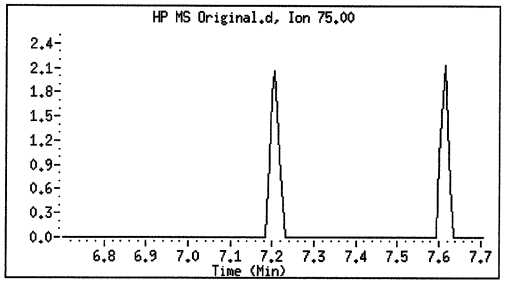


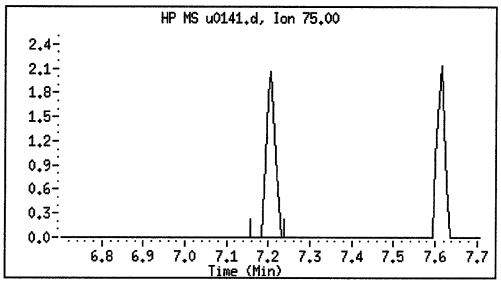
34 1,2-Dichloroethane CAS#: 107-06-2



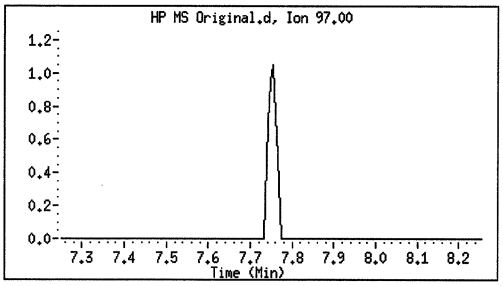


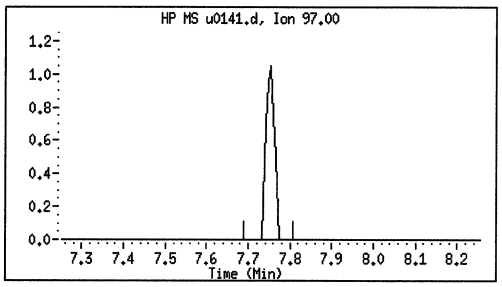
44 cis-1,3-Dichloropropene CAS#: 10061-01-5



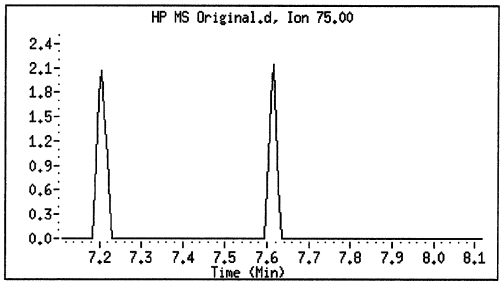


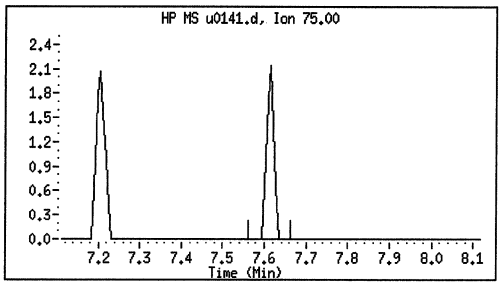
52 1,1,2-Trichloroethane CAS#: 79-00-5





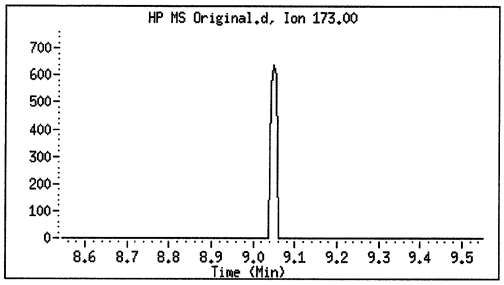
51 trans-1,3-Dichloropropene CAS#: 10061-02-6

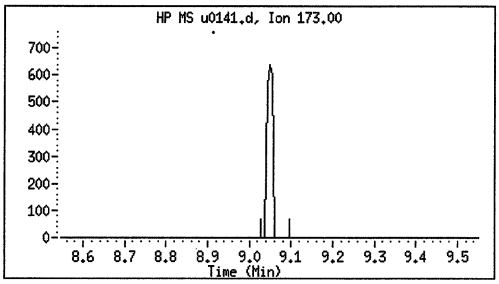




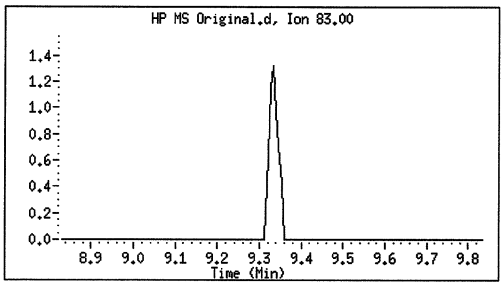
Original Final

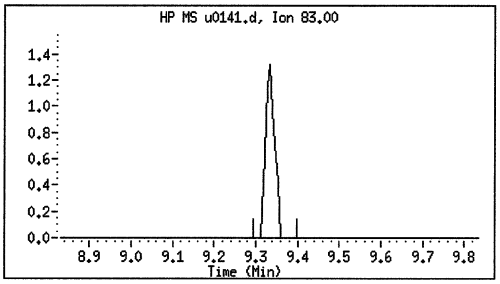
65 Bromoform ++ CAS#: 75-25-2



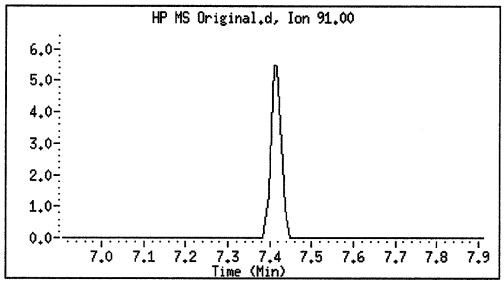


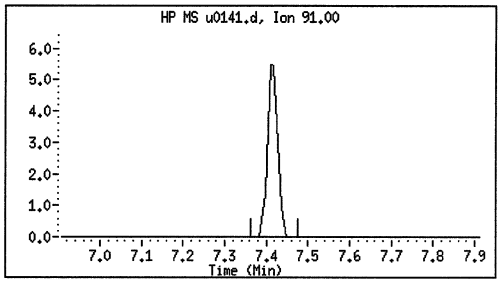
68 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5



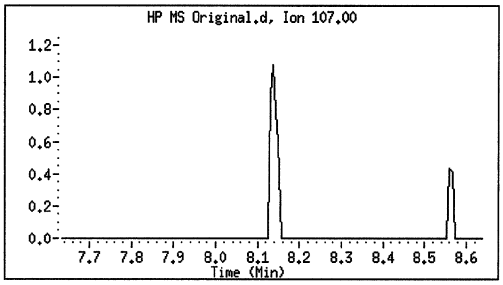


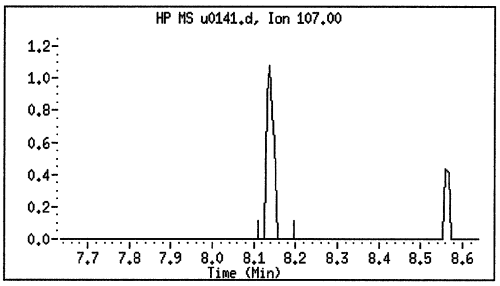
47 Toluene + CAS#: 108-88-3



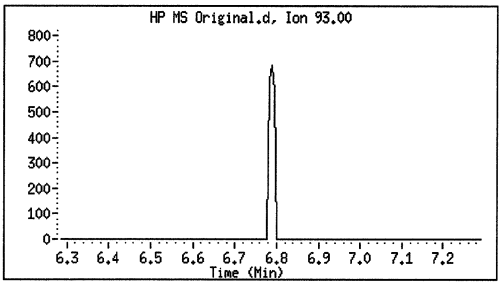


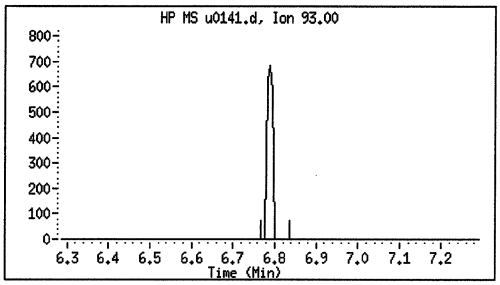
57 1,2-Dibromoethane(EDB) CAS#: 106-93-4





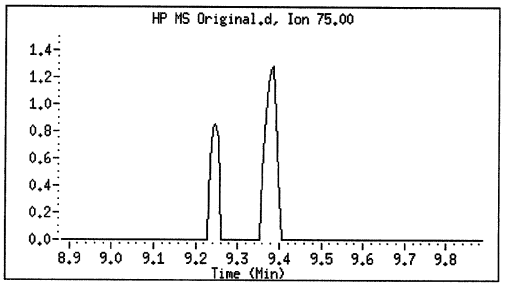
38 Dibromomethane CAS#: 74-95-3

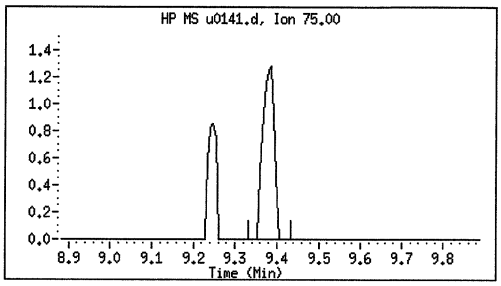




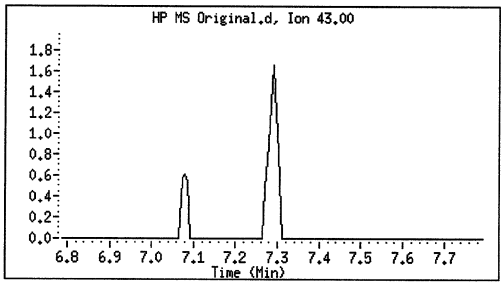
Original Final

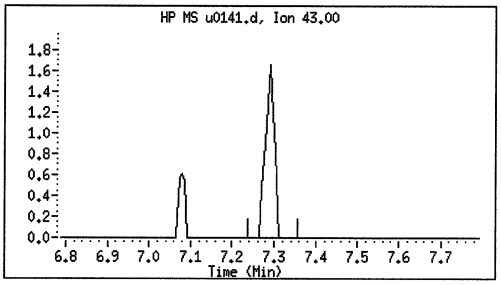
70 1,2,3-Trichloropropane CAS#: 96-18-4



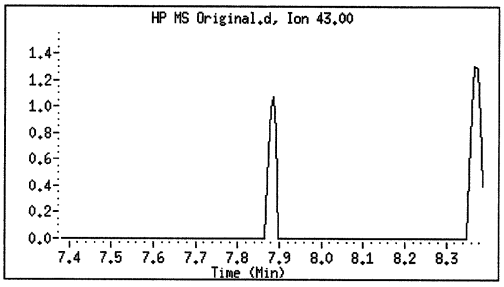


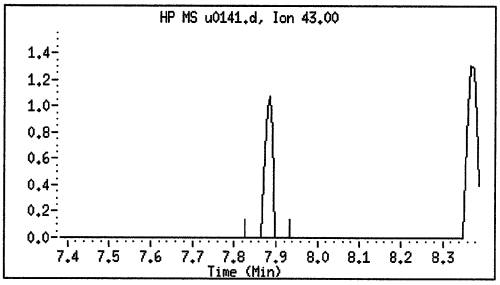
45 4-methyl-2-pentanone CAS#: 108-10-1



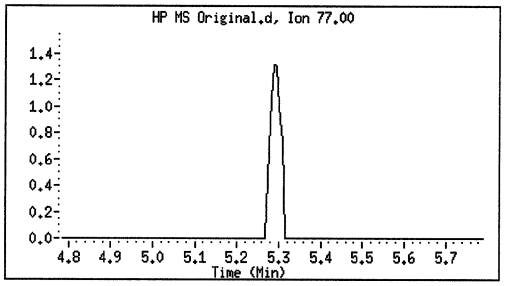


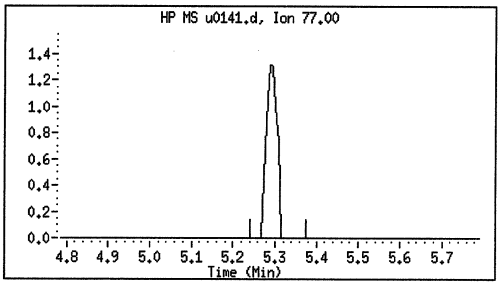
55 2-Hexanone CAS#: 591-78-6



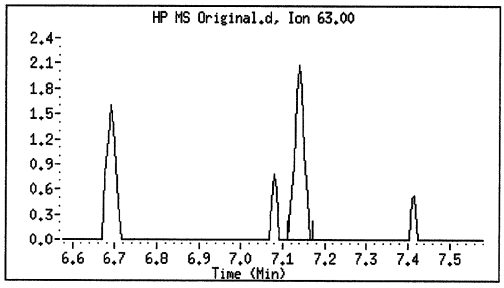


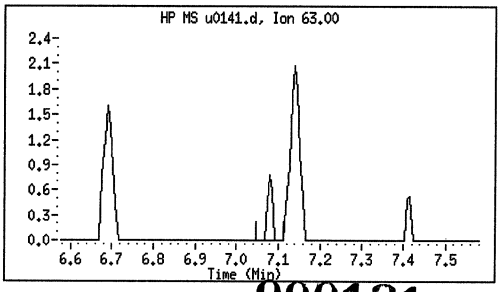
20 2,2-Dichloropropane CAS#: 594-20-7





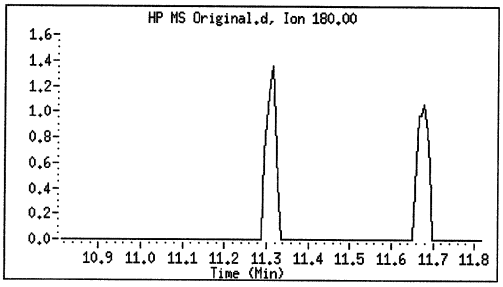
41 2-Chloroethyl vinyl ether CAS#: 110-75-8

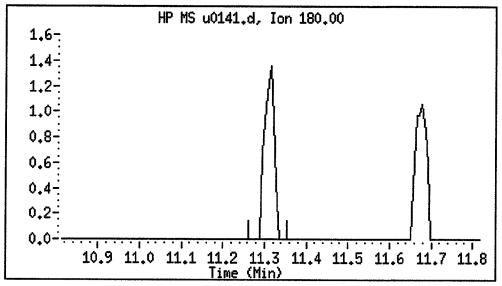




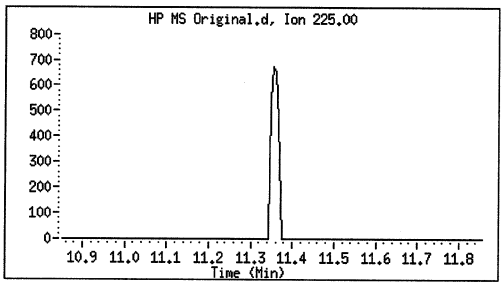
Original | Final

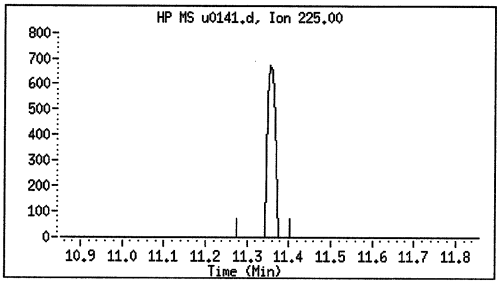
87 1,2,4-Trichlorobenzene CAS#: 120-82-1



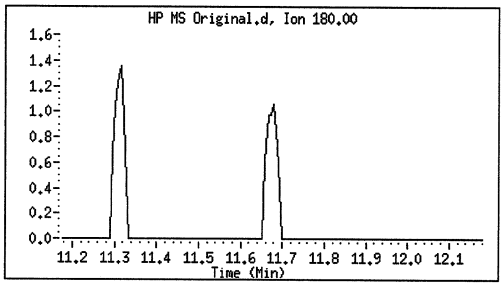


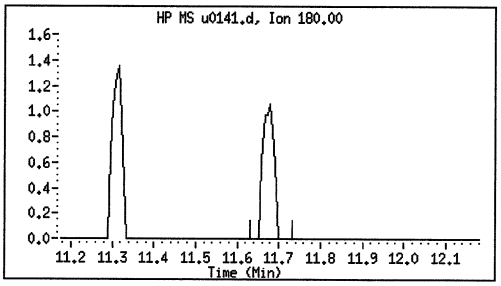
88 Hexachlorobutadiene CAS#: 87-68-3



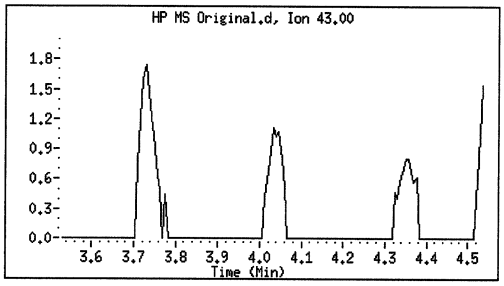


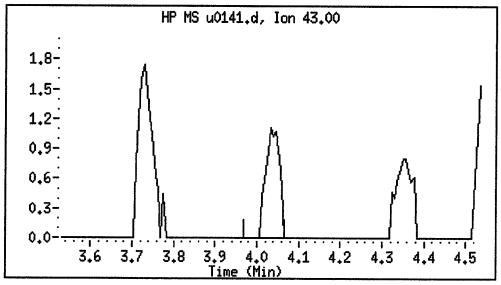
90 1,2,3-Trichlorobenzene CAS#: 87-61-6





106 Methyl Acetate CAS#: 79-20-9





6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

000123

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date 1: 02/19/05 Time 1: 0907

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

Calibration Date 2: 02/19/05 Time 2: 1240

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287753

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / A / b	B / m	C	FIT	TYPE
Acetone	2958	7115	20750	45080	66950	2705				8.495	0.066	46.9	0.991	Q
Acrolein	2366	11408	40908	78655	164179					0.026	0.340		0.999	L
Acrylonitrile	0.122	0.118	0.116	0.113	0.112					0.116			3.608	A
Bromochloromethane	0.148	0.145	0.142	0.138	0.136					0.142			3.492	A
Bromodichloromethane	0.279	0.297	0.301	0.302	0.306	0.260				0.291			6.114	A
Bromoform	0.315	0.386	0.383	0.401	0.410					0.379			9.900	A
Bromomethane	0.267	0.212	0.222	0.203	0.184					0.218			14.23	A
Carbon disulfide	0.715	0.711	0.646	0.631	0.665					0.673			5.634	A
Carbon tetrachloride	0.235	0.252	0.221	0.229	0.249					0.237			5.543	A
Chloroethane	0.151	0.156	0.144	0.139	0.141					0.146			4.746	A
m,p-Xylene	1.083	1.048	0.985	0.975	0.965					1.011			5.087	A
Chloroform	0.410	0.409	0.388	0.388	0.398	0.363				0.393			4.434	A
Chloromethane	0.373	0.361	0.343	0.337	0.344					0.352			4.184	A
Dibromochloromethane	0.606	0.635	0.630	0.671	0.661	0.476				0.613			11.58	A
Dibromomethane	0.187	0.190	0.189	0.183	0.186					0.187			1.412	A
Dichlorodifluoromethane	0.246	0.264	0.226	0.220	0.259					0.243			8.098	A
1,1-Dichloroethane	0.503	0.481	0.458	0.454	0.460					0.471			4.406	A
1,2-Dichloroethane	0.308	0.299	0.304	0.309	0.309	0.270				0.300			5.056	A
cis-1,2-Dichloroethene	0.442	0.427	0.401	0.412	0.413					0.419			3.814	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

000124

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date 1: 02/19/05 Time 1: 0907

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

Calibration Date 2: 02/19/05 Time 2: 1240

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287753

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 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	0.363	0.355	0.339	0.327	0.342					0.345			4.096	A
Methylene chloride	0.448	0.391	0.363	0.357	0.356					0.383			10.20	A
1,2-Dichloropropane	0.327	0.326	0.315	0.311	0.316					0.319			2.309	A
cis-1,3-Dichloropropene	0.464	0.459	0.451	0.455	0.463	0.458				0.458			1.135	A
trans-1,3-Dichloropropene	0.947	1.003	0.967	1.002	1.006					0.985			2.705	A
Ethylbenzene	0.814	0.874	0.798	0.811	0.809					0.821			3.670	A
2-Hexanone	0.480	0.520	0.505	0.534	0.507					0.509			3.955	A
Isopropylbenzene (Cumene)	2.665	2.612	2.343	2.334	2.339					2.459			6.728	A
2-Butanone	0.128	0.136	0.143	0.147	0.132					0.137			5.719	A
Methyl iodide	0.280	0.311	0.239	0.254	0.275					0.272			10.13	A
4-Methyl-2-pentanone	0.365	0.359	0.345	0.337	0.340					0.349			3.565	A
n-Propylbenzene	4.377	4.063	3.791	3.697	3.814					3.948			6.965	A
Styrene	1.920	1.831	1.786	1.756	1.728					1.804			4.171	A
Tetrachloroethene	0.481	0.456	0.414	0.412	0.437					0.440			6.636	A
1,1,1,2-Tetrachloroethane	0.520	0.521	0.509	0.514	0.512	0.470				0.508			3.762	A
1,1,2,2-Tetrachloroethane	1.025	0.962	0.958	0.920	0.954	0.945				0.961			3.612	A
1,2,4-Trichlorobenzene	0.882	0.830	0.819	0.810	0.811	0.699				0.808			7.405	A
1,1,1-Trichloroethane	0.322	0.308	0.276	0.283	0.295	0.262				0.291			7.524	A
1,1,2-Trichloroethane	0.615	0.558	0.555	0.562	0.565	0.483				0.556			7.596	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

000125

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date 1: 02/19/05 Time 1: 0907

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

Calibration Date 2: 02/19/05 Time 2: 1240

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287753

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorofluoromethane	0.274	0.275	0.234	0.230	0.254					0.254			8.480	A
1,2,3-Trichloropropane	1.301	1.262	1.213	1.193	1.211					1.236			3.601	A
1,2,4-Trimethylbenzene	2.864	2.592	2.526	2.474	2.516					2.594			6.025	A
1,3,5-Trimethylbenzene	2.546	2.587	2.435	2.420	2.497					2.497			2.861	A
Vinyl chloride	0.286	0.297	0.276	0.266	0.286	0.287				0.283			3.869	A
o-Xylene	1.082	1.025	0.980	0.964	0.952					1.000			5.342	A
1,2-Dibromo-3-chloropropane	0.155	0.162	0.166	0.161	0.168					0.162			3.089	A
1,2-Dibromoethane	0.652	0.659	0.644	0.648	0.662					0.653			1.104	A
Vinyl acetate	0.616	0.638	0.657	0.649	0.611					0.634			3.192	A
tert-Butyl methyl ether (MTBE)	0.657	0.638	0.608	0.600	0.603					0.621			4.074	A
1,2-Dichloroethene	0.403	0.391	0.370	0.370	0.377	0.364				0.379			3.918	A
4-Isopropyltoluene	3.063	2.812	2.622	2.578	2.694					2.754			7.053	A
Xylene (total)	1.083	1.040	0.984	0.971	0.961	1.063				1.017			5.077	A
Methylcyclohexane	0.420	0.425	0.356	0.354	0.420					0.395			9.157	A
n-Hexane	0.404	0.415	0.323	0.324	0.381					0.369			11.85	A
trans-1,4-Dichloro-2-butene	0.227	0.253	0.249	0.244	0.247					0.244			4.096	A
Cyclohexane	0.496	0.475	0.398	0.391	0.439					0.440			10.49	A
2,2-Dichloropropane	0.328	0.326	0.295	0.294	0.306					0.310			5.310	A
Methyl Acetate	0.183	0.148	0.142	0.138	0.138					0.150			12.77	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

000126

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date 1: 02/19/05 Time 1: 0907

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

Calibration Date 2: 02/19/05 Time 2: 1240

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287753

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorotrifluoroethane	0.175	0.186	0.156	0.154	0.181					0.170			8.576	A
1,1-Dichloropropene	0.331	0.341	0.310	0.311	0.335					0.326			4.367	A
2-Chloroethylvinyl ether	0.238	0.240	0.238	0.238	0.253					0.242			2.738	A
1,3-Dichloropropane	1.126	1.117	1.067	1.076	1.072	1.146				1.101			3.020	A
Bromobenzene	2.061	1.967	1.897	1.835	1.842					1.920			4.939	A
2-Chlorotoluene	2.797	2.561	2.483	2.430	2.420					2.538			6.100	A
4-Chlorotoluene	2.718	2.499	2.320	2.298	2.396					2.446			6.992	A
tert-Butylbenzene	1.875	1.700	1.607	1.532	1.647					1.672			7.697	A
sec-Butylbenzene	3.773	3.515	3.226	3.199	3.354					3.414			6.937	A
1,3-Dichlorobenzene	1.516	1.472	1.446	1.452	1.474	1.518				1.480			2.096	A
1,4-Dichlorobenzene	1.650	1.563	1.491	1.431	1.447	1.504				1.514			5.360	A
n-Butylbenzene	3.075	2.777	2.560	2.529	2.651					2.719			8.152	A
1,2-Dichlorobenzene	1.466	1.357	1.321	1.317	1.340	1.260				1.344			5.112	A
Hexachlorobutadiene	0.415	0.413	0.385	0.368	0.403					0.397			5.054	A
Naphthalene	2.428	2.249	2.610	2.293	2.354					2.387			5.933	A
1,2,3-Trichlorobenzene	0.753	0.780	0.796	0.746	0.752					0.765			2.775	A
1-Bromo-2-chloroethane	0.489	0.520	0.505	0.488	0.487					0.497			2.890	A
1,3-Dichloropropylene	0.433	0.446	0.437	0.444	0.449	0.415				0.437			2.840	A
1,1-Dichloroethene	0.169	0.168	0.154	0.151	0.159					0.160			5.048	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

0001227

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date 1: 02/19/05 Time 1: 0907

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

Calibration Date 2: 02/19/05 Time 2: 1240

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287753

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Benzene	1.091	1.031	0.986	0.953	0.963	1.054	1.047			1.018			5.066	A
Trichloroethene	0.265	0.274	0.256	0.257	0.263					0.263			2.803	A
Toluene	2.565	2.466	2.266	2.317	2.343	2.600				2.426			5.696	A
Chlorobenzene	1.726	1.668	1.588	1.591	1.572	1.746				1.649			4.595	A
4-Bromofluorobenzene	0.588	0.599	0.568	0.579	0.561					0.579			2.634	A
Dibromofluoromethane	0.284	0.264	0.254	0.261	0.254					0.263			4.569	A
Toluene-d8	2.127	2.004	1.904	1.884	1.902					1.964			5.220	A
1,2-Dichloroethane-d4	0.152	0.147	0.140	0.141	0.139					0.144			4.050	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/2050219.s.b/e7410.d
Lab Smp Id: 1000 Client Smp ID: V5BFB
Inj Date : 19-FEB-2005 08:22
Operator : JCK Inst ID: msv5.i
Smp Info : 1000*V5BFB
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/bfb1.m
Meth Date : 15-Jul-2004 15:50 jck 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		
9.242	9.611	(0.000)	95	18417			100.00- 100.00	100.00
9.242	9.611	(0.000)	50	3465			15.00- 40.00	18.81
9.242	9.611	(0.000)	75	7996			30.00- 60.00	43.42
9.242	9.611	(0.000)	96	1310			5.00- 9.00	7.11
9.242	9.611	(0.000)	173	0			0.00- 2.00	0.00
9.242	9.611	(0.000)	174	13462			50.00- 99.99	73.10
9.242	9.611	(0.000)	175	785			5.00- 9.00	5.83
9.242	9.611	(0.000)	176	13249			95.00- 101.00	98.42
9.242	9.611	(0.000)	177	749			5.00- 9.00	5.65

Data File: /var/chem/msv5.i/2050219.s.b/e7410.d

Date : 19-FEB-2005 08:22

Client ID: V5BFB

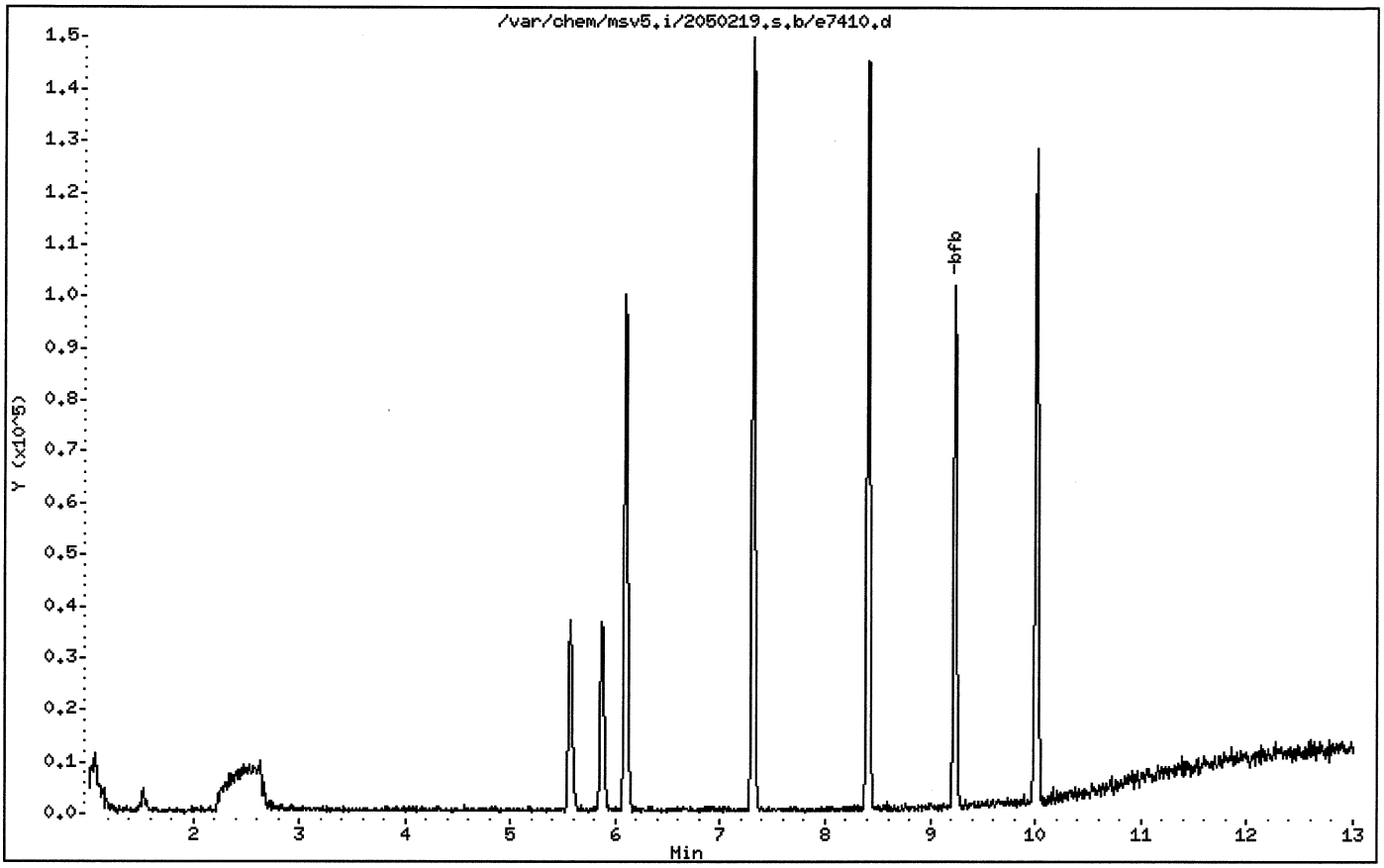
Instrument: msv5.i

Sample Info: 1000*V5BFB

Operator: JCK

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv5.i/2050219.s.b/e7410.d

Date : 19-FEB-2005 08:22

Client ID: V5BFB

Instrument: msv5.i

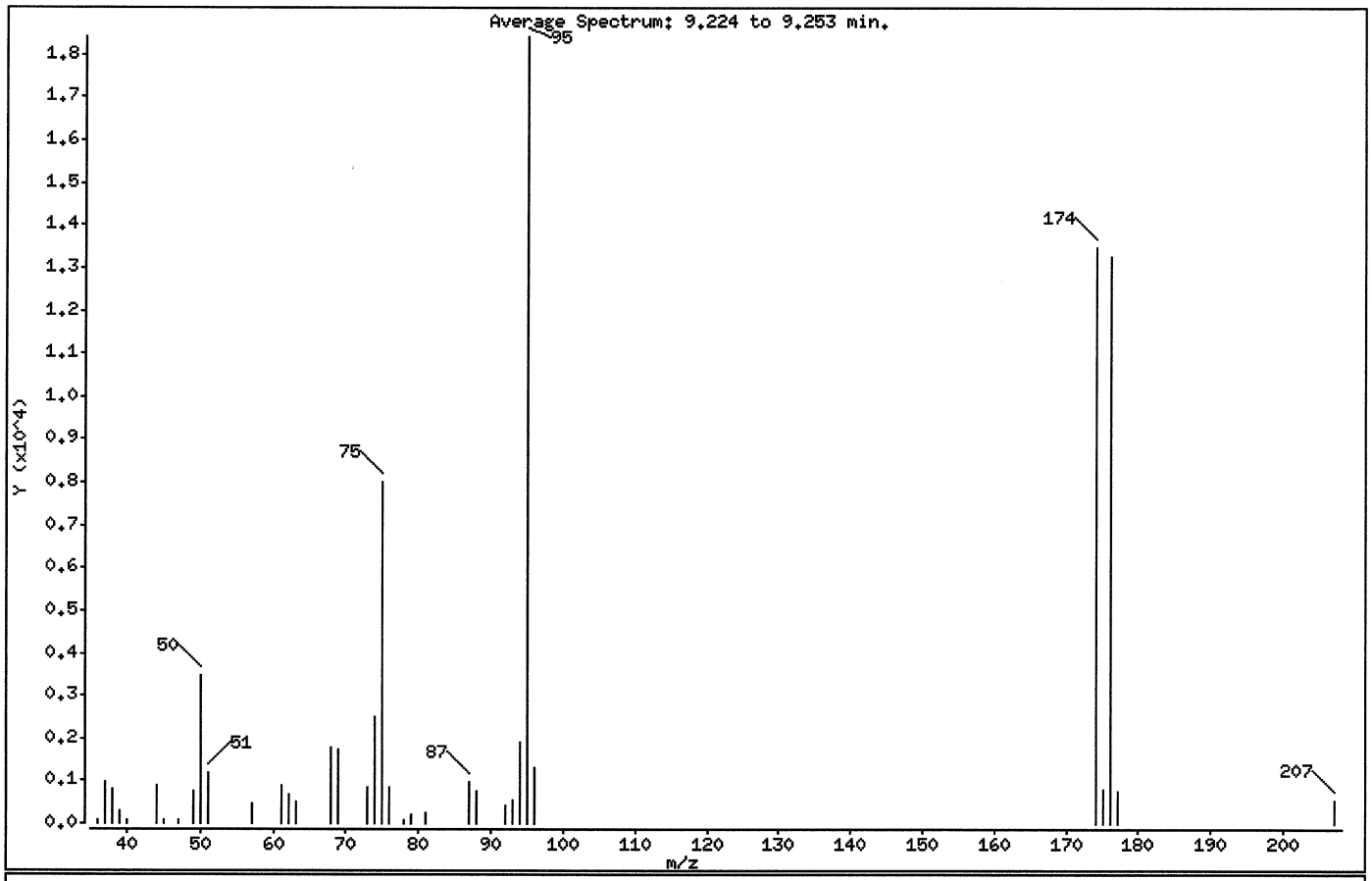
Sample Info: 1000*V5BFB

Operator: JCK

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	18.81
75	30.00 - 60.00% of mass 95	43.42
96	5.00 - 9.00% of mass 95	7.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	73.10
175	5.00 - 9.00% of mass 174	4.26 (5.83)
176	95.00 - 101.00% of mass 174	71.94 (98.42)
177	5.00 - 9.00% of mass 176	4.07 (5.65)

Data File: /var/chem/msv5.i/2050219.s.b/e7410.d

Date : 19-FEB-2005 08:22

Client ID: V5BFB

Instrument: msv5.i

Sample Info: 1000*V5BFB

Operator: JCK

Column phase: DB-624-30M

Column diameter: 0.53

Data File: e7410.d
Spectrum: Average Spectrum: 9.224 to 9.253 min.
Location of Maximum: 95.00
Number of points: 36

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	93	51.00	1194	76.00	829	96.00	1310
37.00	965	57.00	482	78.00	72	174.00	13462
38.00	802	61.00	875	79.00	222	175.00	785
39.00	301	62.00	697	81.00	258	176.00	13249
40.00	74	63.00	492	87.00	960	177.00	749
44.00	894	68.00	1770	88.00	752	207.00	564
45.00	80	69.00	1737	92.00	427		
47.00	80	73.00	860	93.00	542		
49.00	757	74.00	2507	94.00	1903		
50.00	3465	75.00	7996	95.00	18416		

GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7413.d
Lab Smp Id: 1201 Client Smp ID: V5STD005
Inj Date : 19-FEB-2005 09:55
Operator : JCK Inst ID: msv5.i
Smp Info : 1201*V5STD005*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 09:55 Cal File: e7413.d
Als bottle: 3 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/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	1.791	1.791	(0.293)	7349	5.00000	5.07	
2 Chloromethane ++	50	1.990	1.990	(0.326)	11113	5.00000	5.30	
3 Vinyl Chloride +	62	2.090	2.090	(0.342)	8512	5.00000	5.04	
5 Bromomethane	94	2.441	2.441	(0.399)	7968	5.00000	6.14	
6 Chloroethane	64	2.546	2.546	(0.416)	4507	5.00000	5.17	
7 Trichlorofluoromethane	101	2.797	2.797	(0.458)	8177	5.00000	5.41	
10 Acrolein	56	3.370	3.370	(0.551)	2366	25.0000	32.2	(M)
11 1,1,2Trichlotrifluoroethane	101	3.376	3.376	(0.552)	5231	5.00000	5.15	
12 1,1-Dichloroethene +	96	3.405	3.405	(0.557)	5049	5.00000	5.28	
13 Acetone	43	3.522	3.522	(0.576)	2958	5.00000	7.75	(M)
14 Methyl Iodide	142	3.598	3.598	(0.589)	8345	5.00000	5.15	
15 Carbon Disulfide	76	3.634	3.634	(0.594)	21303	5.00000	5.31	
17 Methyl Acetate	43	3.850	3.850	(0.630)	5462	5.00000	6.12	6281
18 Methylene Chloride	49	3.973	3.973	(0.650)	13360	5.00000	5.85	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.183	4.183	(0.684)	19592	5.00000	5.29	7873
	21 trans-1,2-Dichloroethene	61	4.207	4.207	(0.688)	10833	5.00000	5.26	
	22 Acrylonitrile	53	4.277	4.277	(0.700)	18233	25.0000	26.3	
	24 Hexane	57	4.417	4.417	(0.722)	12047	5.00000	5.47	0(M)
	27 1,1-Dichloroethane ++	63	4.651	4.651	(0.761)	15000	5.00000	5.34	
	28 Vinyl Acetate	43	4.681	4.681	(0.766)	18380	5.00000	4.86	
	30 2,2-Dichloropropane	77	5.160	5.160	(0.844)	9791	5.00000	5.30	
	31 cis-1,2-Dichloroethene	61	5.184	5.184	(0.848)	13181	5.00000	5.27	
	32 2-Butanone	43	5.207	5.207	(0.852)	3805	5.00000	4.65	
	35 Bromochloromethane	128	5.394	5.394	(0.882)	4409	5.00000	5.22	
	36 Chloroform +	83	5.441	5.441	(0.890)	12231	5.00000	5.23	
	37 Cyclohexane	56	5.575	5.575	(0.912)	14791	5.00000	5.64	8952
$	38 Dibromofluoromethane	111	5.587	5.587	(0.914)	8453	5.00000	5.38	8768
	39 1,1,1-Trichloroethane	97	5.575	5.575	(0.912)	9609	5.00000	5.53	
	40 Carbon Tetrachloride	117	5.693	5.693	(0.931)	7009	5.00000	4.96	
	41 1,1-Dichloropropene	75	5.716	5.716	(0.935)	9865	5.00000	5.08	
M	42 Total 1,2-Dichloroethene	61				24014	10.0000	10.5	
	44 Benzene	78	5.880	5.880	(0.962)	32537	5.00000	5.36	
$	45 1,2-Dichloroethane-d4	67	5.886	5.886	(0.963)	4542	5.00000	5.30	
	46 1,2-Dichloroethane	62	5.950	5.950	(0.973)	9187	5.00000	5.14	
*	47 FLUOROBENZENE	96	6.114	6.114	(1.000)	298144	50.0000		
	49 Trichloroethene	130	6.401	6.401	(1.047)	7900	5.00000	5.04	
	50 Methyl Cyclohexane	83	6.500	6.500	(1.063)	12517	5.00000	5.31	8874
	51 1,2-Dichloropropane +	63	6.611	6.611	(1.081)	9759	5.00000	5.13	
	55 Dibromomethane	93	6.705	6.705	(1.097)	5576	5.00000	5.00	
	56 Bromodichloromethane	83	6.804	6.804	(1.113)	8315	5.00000	4.79	
	57 2-Chloroethyl vinyl ether	63	7.027	7.027	(1.149)	7107	5.00000	4.93	
	58 cis-1,3-Dichloropropene	75	7.144	7.144	(1.168)	13843	5.00000	5.07	
	59 4-methyl-2-pentanone	43	7.243	7.243	(1.185)	10878	5.00000	5.23	
$	60 Toluene-d8	98	7.319	7.319	(0.870)	26862	5.00000	5.41	
	61 Toluene +	91	7.372	7.372	(0.876)	32386	5.00000	5.29	
	63 trans-1,3-Dichloropropene	75	7.571	7.571	(0.900)	11955	5.00000	4.81	
	64 1,1,2-Trichloroethane	97	7.717	7.717	(0.917)	7771	5.00000	5.53	
	65 Tetrachloroethene	164	7.770	7.770	(0.924)	6075	5.00000	5.47	
	66 1,3-Dichloropropane	76	7.846	7.846	(0.933)	14219	5.00000	5.12	
	67 2-Hexanone	43	7.858	7.858	(0.934)	6064	5.00000	4.72	
	68 Dibromochloromethane	129	7.998	7.998	(0.951)	7651	5.00000	4.94	
	69 1,2-Dibromoethane(EDB)	107	8.097	8.097	(0.962)	8232	5.00000	4.99	
*	70 CHLOROBENZENE-d5	82	8.413	8.413	(1.000)	126274	50.0000		
	71 Chlorobenzene ++	112	8.437	8.437	(1.003)	21789	5.00000	5.23	
	72 Ethylbenzene +	106	8.472	8.472	(1.007)	10277	5.00000	4.96	
	73 1,1,1,2-Tetrachloroethane	133	8.490	8.490	(1.009)	6569	5.00000	5.12	
	74 p,m-Xylene	106	8.554	8.554	(1.017)	27346	10.0000	10.7	
	75 o-Xylene	106	8.847	8.847	(1.052)	13667	5.00000	5.41	
	76 Styrene	104	8.870	8.870	(1.054)	24247	5.00000	5.32	
	77 Bromoform ++	173	9.040	9.040	(1.074)	3977	5.00000	4.16	
	78 Isopropylbenzene	105	9.087	9.087	(1.080)	33655	5.00000	5.42	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.245	9.245	(1.099)	7427	5.00000	5.08	
81 1,1,2,2-Tetrachloroethane++	83	9.333	9.333	(0.932)	10187	5.00000	5.33	
82 Bromobenzene	77	9.356	9.356	(0.934)	20490	5.00000	5.37	
84 trans-1,4-Dichloro-2-Butene	53	9.380	9.380	(0.937)	2260	5.00000	4.66	
85 n-Propylbenzene	91	9.368	9.368	(0.936)	43512	5.00000	5.54	
86 1,2,3-Trichloropropane	75	9.374	9.374	(0.936)	12937	5.00000	5.26	
87 2-Chlorotoluene	91	9.467	9.467	(0.946)	27804	5.00000	5.51	
88 1,3,5-Trimethylbenzene	105	9.485	9.485	(0.947)	25316	5.00000	5.10	
89 4-Chlorotoluene	91	9.544	9.544	(0.953)	27018	5.00000	5.56	
91 tert-butylbenzene	91	9.696	9.696	(0.968)	18639	5.00000	5.61	
92 1,2,4-Trimethylbenzene	105	9.737	9.737	(0.972)	28470	5.00000	5.52	
96 sec-Butylbenzene	105	9.842	9.842	(0.983)	37511	5.00000	5.53	
97 p-Isopropyltoluene	119	9.924	9.924	(0.991)	30449	5.00000	5.56	(H)
98 1,3-Dichlorobenzene	146	9.971	9.971	(0.996)	15074	5.00000	5.12	
* 99 1,4-DICHLOROBENZENE-D4	152	10.012	10.012	(1.000)	99418	50.0000		
100 1,4-Dichlorobenzene	146	10.024	10.024	(1.001)	16405	5.00000	5.45	
M 101 TOTAL XYLENE	106				41013	15.0000	16.1	
102 n-Butylbenzene	91	10.194	10.194	(1.018)	30574	5.00000	5.66	
103 1,2-Dichlorobenzene	146	10.276	10.276	(1.026)	14579	5.00000	5.46	
104 1,2-Dibromo-3-Chloropropane	157	10.803	10.803	(1.079)	1542	5.00000	4.78	
106 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.133)	8767	5.00000	5.45	
107 Hexachlorobutadiene	225	11.382	11.382	(1.137)	4122	5.00000	5.23	
108 Naphthalene	128	11.529	11.529	(1.151)	24141	5.00000	5.09	
109 1,2,3-Trichlorobenzene	180	11.699	11.699	(1.168)	7490	5.00000	4.92	
140 1-Bromo-2-chloroethane	63	7.068	7.068	(1.156)	14572	5.00000	4.91	0 (M)
M 139 1-3 Dichloropropene-Total	100				25798	10.0000	9.87	0

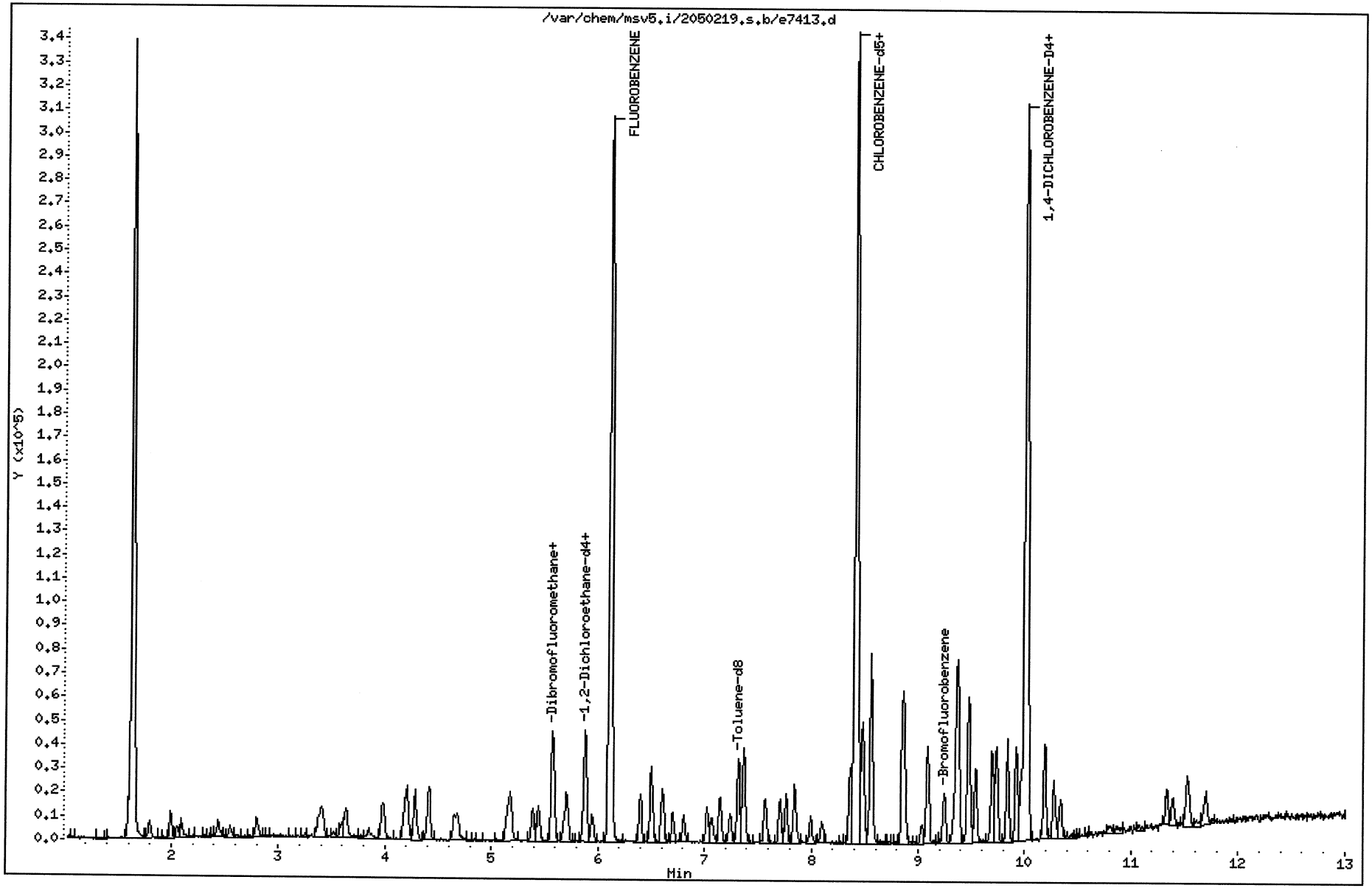
QC Flag Legend

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

000135

Data File: /var/chem/msv5.i/2050219.s.b/e7413.d
Date : 19-FEB-2005 09:55
Client ID: V5STD005
Sample Info: 1201*V5STD005*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

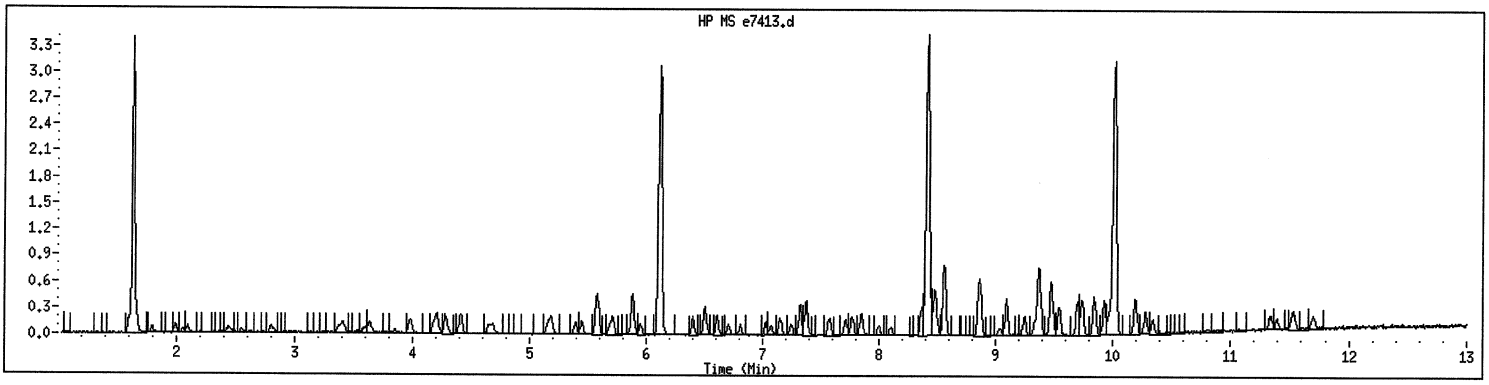
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050219.s.b/e7413.d
Report Date: 02/19/2005 14:26

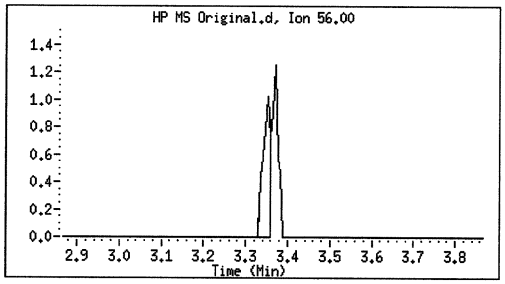
MANUAL INTEGRATION GRAPHIC REPORT

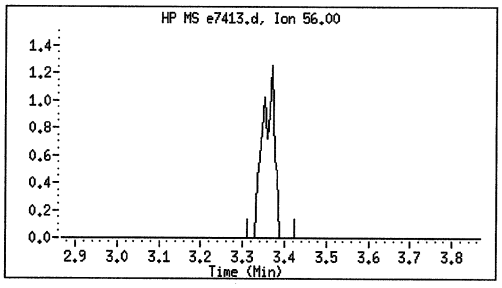
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 19-FEB-2005 09:55	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1201*V5STD005*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



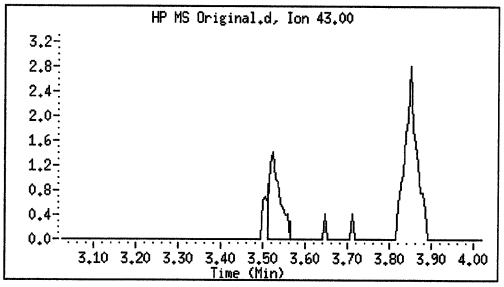
Original | Final

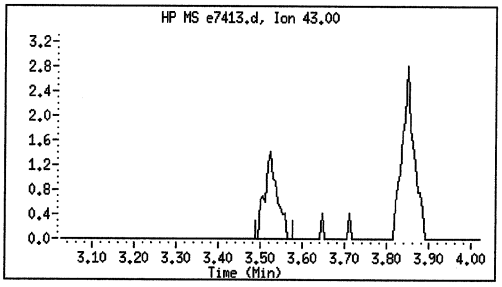
10 Acrolein CAS#: 107-02-8





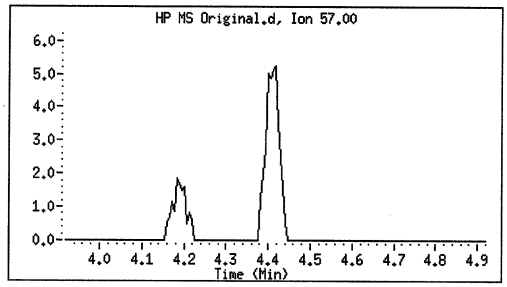
13 Acetone CAS#: 67-64-1

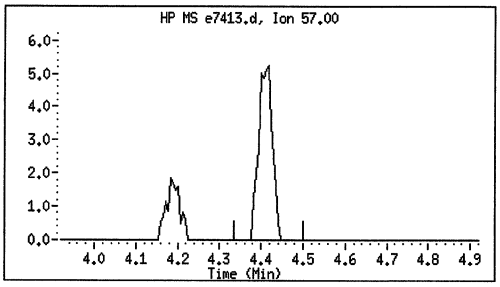




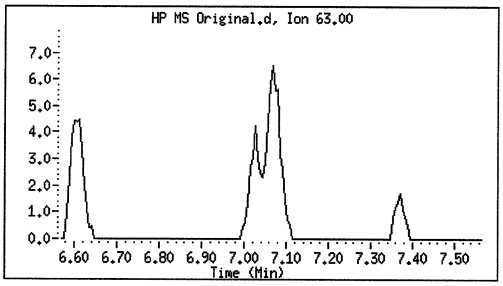
Original | Final

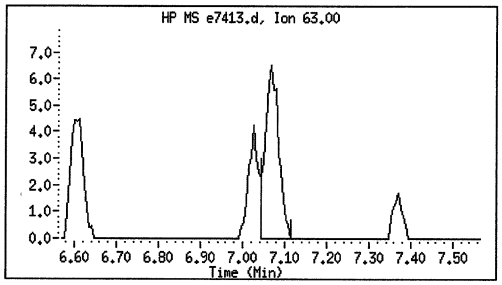
24 Hexane CAS#: 110-54-3





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





GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7414.d
Lab Smp Id: 1202 Client Smp ID: V5STD020
Inj Date : 19-FEB-2005 10:19
Operator : JCK Inst ID: msv5.i
Smp Info : 1202*V5STD020*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 10:19 Cal File: e7414.d
Als bottle: 4 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/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	1.791	1.791	(0.293)	31500	20.0000	21.7	
2 Chloromethane ++	50	1.990	1.990	(0.325)	42996	20.0000	20.5	
3 Vinyl Chloride +	62	2.090	2.090	(0.342)	35447	20.0000	21.0	
5 Bromomethane	94	2.435	2.435	(0.398)	25267	20.0000	19.5	
6 Chloroethane	64	2.552	2.552	(0.417)	18539	20.0000	21.3	
7 Trichlorofluoromethane	101	2.803	2.803	(0.458)	32826	20.0000	21.7	
10 Acrolein	56	3.353	3.353	(0.548)	11408	100.000	90.2	
11 1,1,2Trichlotrifluoroethane	101	3.376	3.376	(0.552)	22133	20.0000	21.8	
12 1,1-Dichloroethene +	96	3.412	3.412	(0.558)	20002	20.0000	20.9	
13 Acetone	43	3.529	3.529	(0.577)	7115	20.0000	14.8	
14 Methyl Iodide	142	3.593	3.593	(0.588)	37100	20.0000	22.9	
15 Carbon Disulfide	76	3.634	3.634	(0.594)	84666	20.0000	21.1	
17 Methyl Acetate	43	3.845	3.845	(0.629)	17593	20.0000	19.7	4520(H)
18 Methylene Chloride	49	3.979	3.979	(0.651)	46589	20.0000	20.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.190	4.190	(0.685)	76041	20.0000	20.5	8738
	21 trans-1,2-Dichloroethene	61	4.207	4.207	(0.688)	42318	20.0000	20.6	
	22 Acrylonitrile	53	4.278	4.278	(0.699)	70081	100.000	101	
	24 Hexane	57	4.407	4.407	(0.721)	49464	20.0000	22.5	0(M)
	27 1,1-Dichloroethane ++	63	4.652	4.652	(0.761)	57300	20.0000	20.4	
	28 Vinyl Acetate	43	4.676	4.676	(0.765)	76014	20.0000	20.1	
	30 2,2-Dichloropropane	77	5.155	5.155	(0.843)	38859	20.0000	21.0	
	31 cis-1,2-Dichloroethene	61	5.185	5.185	(0.848)	50921	20.0000	20.4	
	32 2-Butanone	43	5.202	5.202	(0.851)	16251	20.0000	19.9	
	35 Bromochloromethane	128	5.389	5.389	(0.881)	17283	20.0000	20.5	
	36 Chloroform +	83	5.442	5.442	(0.890)	48690	20.0000	20.8	
	37 Cyclohexane	56	5.571	5.571	(0.911)	56643	20.0000	21.6	9186
$	38 Dibromofluoromethane	111	5.583	5.583	(0.913)	31455	20.0000	20.0	8991
	39 1,1,1-Trichloroethane	97	5.577	5.577	(0.912)	36664	20.0000	21.1	
	40 Carbon Tetrachloride	117	5.682	5.682	(0.929)	29987	20.0000	21.2	
	41 1,1-Dichloropropene	75	5.712	5.712	(0.934)	40668	20.0000	21.0	
M	42 Total 1,2-Dichloroethene	61				93239	40.0000	41.0	
	44 Benzene	78	5.881	5.881	(0.962)	122858	20.0000	20.3	
$	45 1,2-Dichloroethane-d4	67	5.887	5.887	(0.963)	17558	20.0000	20.5	
	46 1,2-Dichloroethane	62	5.946	5.946	(0.972)	35638	20.0000	19.9	
*	47 FLUOROBENZENE	96	6.116	6.116	(1.000)	297898	50.0000		
	49 Trichloroethene	130	6.397	6.397	(1.046)	32642	20.0000	20.8	
	50 Methyl Cyclohexane	83	6.502	6.502	(1.063)	50587	20.0000	21.5	9065
	51 1,2-Dichloropropane +	63	6.607	6.607	(1.080)	38876	20.0000	20.5	
	55 Dibromomethane	93	6.701	6.701	(1.096)	22645	20.0000	20.3	
	56 Bromodichloromethane	83	6.807	6.807	(1.113)	35425	20.0000	20.4	
	57 2-Chloroethyl vinyl ether	63	7.023	7.023	(1.148)	28576	20.0000	19.9	
	58 cis-1,3-Dichloropropene	75	7.146	7.146	(1.168)	54665	20.0000	20.0	
	59 4-methyl-2-pentanone	43	7.234	7.234	(1.183)	42813	20.0000	20.6	
$	60 Toluene-d8	98	7.322	7.322	(0.870)	103048	20.0000	20.4	
	61 Toluene +	91	7.369	7.369	(0.876)	126797	20.0000	20.3	
	63 trans-1,3-Dichloropropene	75	7.574	7.574	(0.900)	51546	20.0000	20.4	
	64 1,1,2-Trichloroethane	97	7.714	7.714	(0.917)	28668	20.0000	20.0	
	65 Tetrachloroethene	164	7.767	7.767	(0.923)	23421	20.0000	20.7	
	66 1,3-Dichloropropane	76	7.843	7.843	(0.932)	57418	20.0000	20.3	
	67 2-Hexanone	43	7.849	7.849	(0.933)	26743	20.0000	20.4	
	68 Dibromochloromethane	129	7.989	7.989	(0.950)	32670	20.0000	20.7	
	69 1,2-Dibromoethane(EDB)	107	8.101	8.101	(0.963)	33862	20.0000	20.2	
*	70 CHLOROBENZENE-d5	82	8.411	8.411	(1.000)	128522	50.0000		
	71 Chlorobenzene ++	112	8.434	8.434	(1.003)	85759	20.0000	20.2	
	72 Ethylbenzene +	106	8.470	8.470	(1.007)	44934	20.0000	21.3	
	73 1,1,1,2-Tetrachloroethane	133	8.487	8.487	(1.009)	26776	20.0000	20.5	
	74 p,m-Xylene	106	8.558	8.558	(1.017)	107703	40.0000	41.4	
	75 o-Xylene	106	8.851	8.851	(1.052)	52670	20.0000	20.5	
	76 Styrene	104	8.868	8.868	(1.054)	94122	20.0000	20.3	
	77 Bromoform ++	173	9.032	9.032	(1.074)	19852	20.0000	20.4	
	78 Isopropylbenzene	105	9.091	9.091	(1.081)	134292	20.0000	21.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.249	9.249	(1.100)	30801	20.0000	20.7	
81 1,1,2,2-Tetrachloroethane++	83	9.337	9.337	(0.933)	39985	20.0000	20.0	
82 Bromobenzene	77	9.360	9.360	(0.935)	81727	20.0000	20.5	
84 trans-1,4-Dichloro-2-Butene	53	9.372	9.372	(0.936)	10526	20.0000	20.7	
85 n-Propylbenzene	91	9.366	9.366	(0.936)	168839	20.0000	20.6	
86 1,2,3-Trichloropropane	75	9.378	9.378	(0.937)	52441	20.0000	20.4	
87 2-Chlorotoluene	91	9.472	9.472	(0.946)	106428	20.0000	20.2	
88 1,3,5-Trimethylbenzene	105	9.478	9.478	(0.947)	107515	20.0000	20.7	
89 4-Chlorotoluene	91	9.543	9.543	(0.953)	103863	20.0000	20.4	
91 tert-butylbenzene	91	9.695	9.695	(0.968)	70658	20.0000	20.3	
92 1,2,4-Trimethylbenzene	105	9.736	9.736	(0.972)	107736	20.0000	20.0	
96 sec-Butylbenzene	105	9.842	9.842	(0.983)	146100	20.0000	20.6	
97 p-Isopropyltoluene	119	9.924	9.924	(0.991)	116870	20.0000	20.4	(H)
98 1,3-Dichlorobenzene	146	9.971	9.971	(0.996)	61196	20.0000	19.9	
* 99 1,4-DICHLOROBENZENE-D4	152	10.012	10.012	(1.000)	103898	50.0000		
100 1,4-Dichlorobenzene	146	10.024	10.024	(1.001)	64944	20.0000	20.6	
M 101 TOTAL XYLENE	106				160373	60.0000	61.9	
102 n-Butylbenzene	91	10.188	10.188	(1.018)	115426	20.0000	20.4	
103 1,2-Dichlorobenzene	146	10.276	10.276	(1.026)	56407	20.0000	20.2	
104 1,2-Dibromo-3-Chloropropane	157	10.797	10.797	(1.078)	6727	20.0000	19.9	
106 1,2,4-Trichlorobenzene	180	11.336	11.336	(1.132)	34500	20.0000	20.5	
107 Hexachlorobutadiene	225	11.389	11.389	(1.137)	17159	20.0000	20.8	
108 Naphthalene	128	11.535	11.535	(1.152)	93486	20.0000	18.8	
109 1,2,3-Trichlorobenzene	180	11.705	11.705	(1.169)	32408	20.0000	20.4	
140 1-Bromo-2-chloroethane	63	7.070	7.070	(1.156)	61910	20.0000	20.9	7462
M 139 1-3 Dichloropropene-Total	100				106211	40.0000	40.4	0

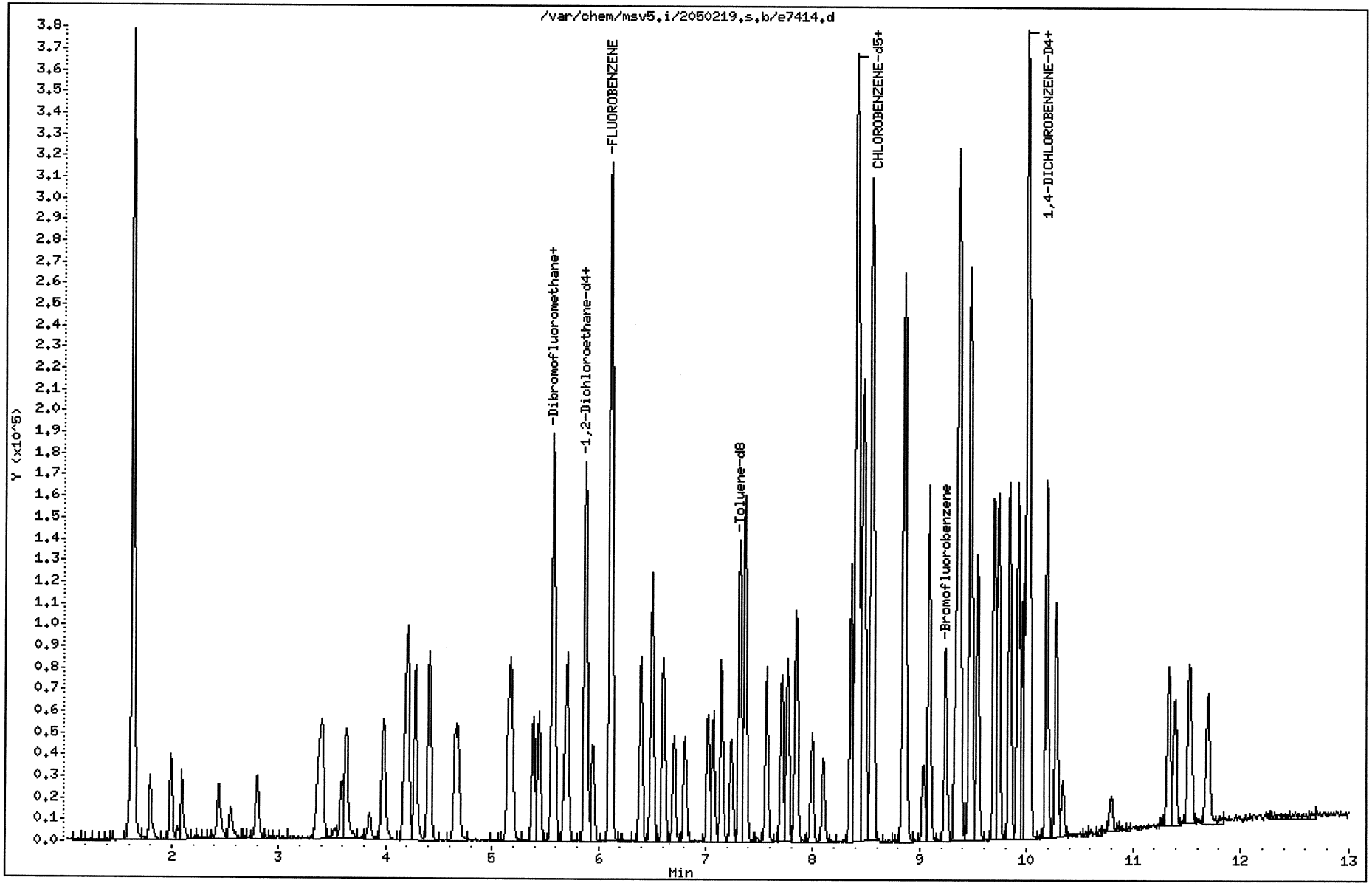
QC Flag Legend

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

000141

Data File: /var/chem/msv5.i/2050219.s.b/e7414.d
Date : 19-FEB-2005 10:19
Client ID: V5STD020
Sample Info: 1202*V5STD020*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

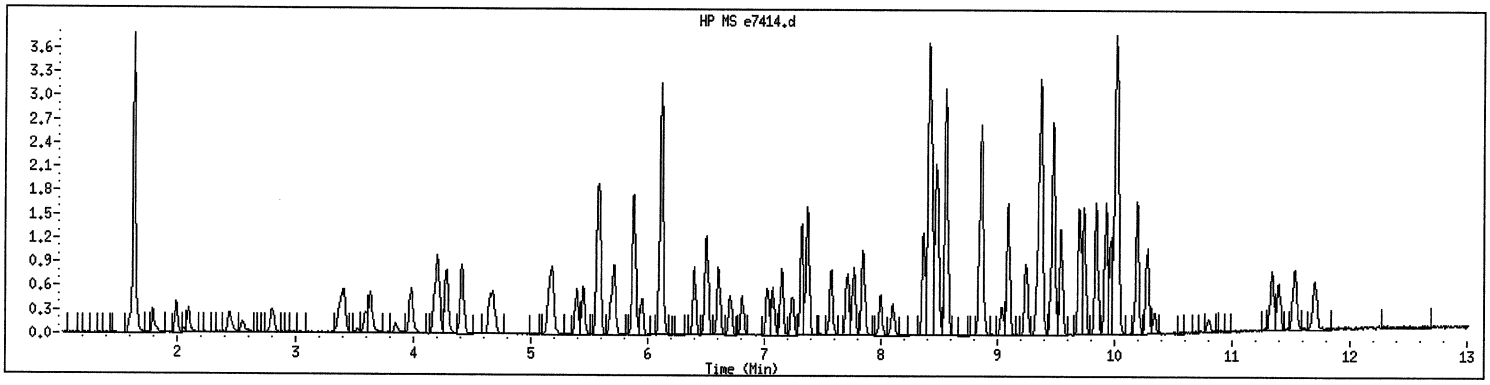
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050219.s.b/e7414.d
Report Date: 02/19/2005 14:26

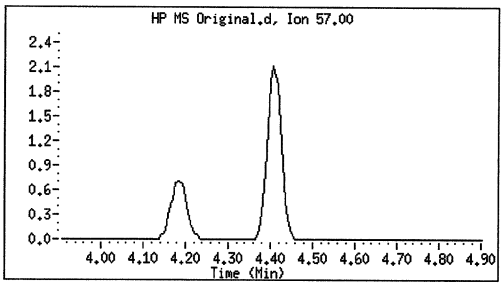
MANUAL INTEGRATION GRAPHIC REPORT

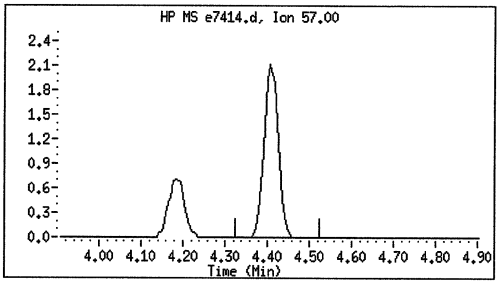
Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 19-FEB-2005 10:19	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1202*V5STD020*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original | Final

24 Hexane CAS#: 110-54-3





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Data file : /var/chem/msv5.i/2050219.s.b/e7415.d
Lab Smp Id: 1203 Client Smp ID: V5STD050
Inj Date : 19-FEB-2005 11:47
Operator : JCK Inst ID: msv5.i
Smp Info : 1203*V5STD050*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 11:47 Cal File: e7415.d
Als bottle: 5 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/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	1.791	1.791	(0.293)	72151	50.0000	46.4	
2 Chloromethane ++	50	1.990	1.990	(0.325)	109635	50.0000	48.8	
3 Vinyl Chloride +	62	2.096	2.096	(0.343)	88232	50.0000	48.8	
5 Bromomethane	94	2.441	2.441	(0.399)	70992	50.0000	51.0	
6 Chloroethane	64	2.552	2.552	(0.417)	46157	50.0000	49.4	
7 Trichlorofluoromethane	101	2.804	2.804	(0.458)	74642	50.0000	46.1	
10 Acrolein	56	3.359	3.359	(0.549)	40908	250.000	262	(A)
11 1,1,2Trichlotrifluoroethane	101	3.383	3.383	(0.553)	49781	50.0000	45.7	
12 1,1-Dichloroethene +	96	3.412	3.412	(0.558)	49201	50.0000	48.0	
13 Acetone	43	3.523	3.523	(0.576)	20746	50.0000	40.8	
14 Methyl Iodide	142	3.594	3.594	(0.587)	76355	50.0000	44.0	
15 Carbon Disulfide	76	3.635	3.635	(0.594)	206265	50.0000	48.0	
17 Methyl Acetate	43	3.845	3.845	(0.629)	45401	50.0000	47.5	3889(H)
18 Methylene Chloride	49	3.980	3.980	(0.651)	116104	50.0000	47.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.191	4.191	(0.685)	194089	50.0000	48.9	8617
	21 trans-1,2-Dichloroethene	61	4.208	4.208	(0.688)	108248	50.0000	49.1	
	22 Acrylonitrile	53	4.279	4.279	(0.699)	185844	250.000	250	(A)
	24 Hexane	57	4.413	4.413	(0.721)	103135	50.0000	43.7	0 (M)
	27 1,1-Dichloroethane ++	63	4.647	4.647	(0.760)	146374	50.0000	48.6	
	28 Vinyl Acetate	43	4.682	4.682	(0.765)	210040	50.0000	51.8	
	30 2,2-Dichloropropane	77	5.156	5.156	(0.843)	94221	50.0000	47.6	
	31 cis-1,2-Dichloroethene	61	5.180	5.180	(0.847)	127999	50.0000	47.8	
	32 2-Butanone	43	5.197	5.197	(0.850)	45588	50.0000	52.0	
	35 Bromochloromethane	128	5.396	5.396	(0.882)	45302	50.0000	50.0	
	36 Chloroform +	83	5.443	5.443	(0.890)	123869	50.0000	49.4	
	37 Cyclohexane	56	5.572	5.572	(0.911)	127174	50.0000	45.2	9034
$	38 Dibromofluoromethane	111	5.584	5.584	(0.913)	81257	50.0000	48.3	8945
	39 1,1,1-Trichloroethane	97	5.578	5.578	(0.912)	88154	50.0000	47.4	
	40 Carbon Tetrachloride	117	5.690	5.690	(0.930)	70704	50.0000	46.6	
	41 1,1-Dichloropropene	75	5.713	5.713	(0.934)	99164	50.0000	47.7	
M	42 Total 1,2-Dichloroethene	61				236247	100.000	96.9	
	44 Benzene	78	5.883	5.883	(0.962)	314899	50.0000	48.4	
$	45 1,2-Dichloroethane-d4	67	5.889	5.889	(0.963)	44584	50.0000	48.5	
	46 1,2-Dichloroethane	62	5.948	5.948	(0.972)	97255	50.0000	50.7	
*	47 FLUOROBENZENE	96	6.118	6.118	(1.000)	319476	50.0000		
	49 Trichloroethene	130	6.399	6.399	(1.046)	81697	50.0000	48.7	
	50 Methyl Cyclohexane	83	6.504	6.504	(1.063)	113885	50.0000	45.1	9079
	51 1,2-Dichloropropane +	63	6.610	6.610	(1.080)	100595	50.0000	49.4	
	55 Dibromomethane	93	6.703	6.703	(1.096)	60273	50.0000	50.4	
	56 Bromodichloromethane	83	6.809	6.809	(1.113)	96030	50.0000	51.7	
	57 2-Chloroethyl vinyl ether	63	7.025	7.025	(1.148)	75993	50.0000	49.2	
	58 cis-1,3-Dichloropropene	75	7.149	7.149	(1.169)	143980	50.0000	49.2	
	59 4-methyl-2-pentanone	43	7.236	7.236	(1.183)	110102	50.0000	49.4	
$	60 Toluene-d8	98	7.318	7.318	(0.870)	265767	50.0000	48.5	
	61 Toluene +	91	7.371	7.371	(0.876)	316300	50.0000	46.7	
	63 trans-1,3-Dichloropropene	75	7.571	7.571	(0.900)	134981	50.0000	49.1	
	64 1,1,2-Trichloroethane	97	7.711	7.711	(0.916)	77460	50.0000	49.9	
	65 Tetrachloroethene	164	7.770	7.770	(0.923)	57773	50.0000	47.0	
	66 1,3-Dichloropropane	76	7.846	7.846	(0.932)	148942	50.0000	48.5	
	67 2-Hexanone	43	7.852	7.852	(0.933)	70438	50.0000	49.6	
	68 Dibromochloromethane	129	7.998	7.998	(0.951)	87858	50.0000	51.3	
	69 1,2-Dibromoethane(EDB)	107	8.098	8.098	(0.962)	89907	50.0000	49.3	
*	70 CHLOROBENZENE-d5	82	8.414	8.414	(1.000)	139569	50.0000		
	71 Chlorobenzene ++	112	8.438	8.438	(1.003)	221643	50.0000	48.2	
	72 Ethylbenzene +	106	8.473	8.473	(1.007)	111409	50.0000	48.6	
	73 1,1,1,2-Tetrachloroethane	133	8.491	8.491	(1.009)	71109	50.0000	50.2	
	74 p,m-Xylene	106	8.562	8.562	(1.018)	275079	100.000	97.5	
	75 o-Xylene	106	8.854	8.854	(1.052)	136720	50.0000	49.0	
	76 Styrene	104	8.866	8.866	(1.054)	249271	50.0000	49.5	
	77 Bromoform ++	173	9.042	9.042	(1.075)	53399	50.0000	50.5	
	78 Isopropylbenzene	105	9.089	9.089	(1.080)	327000	50.0000	47.6	

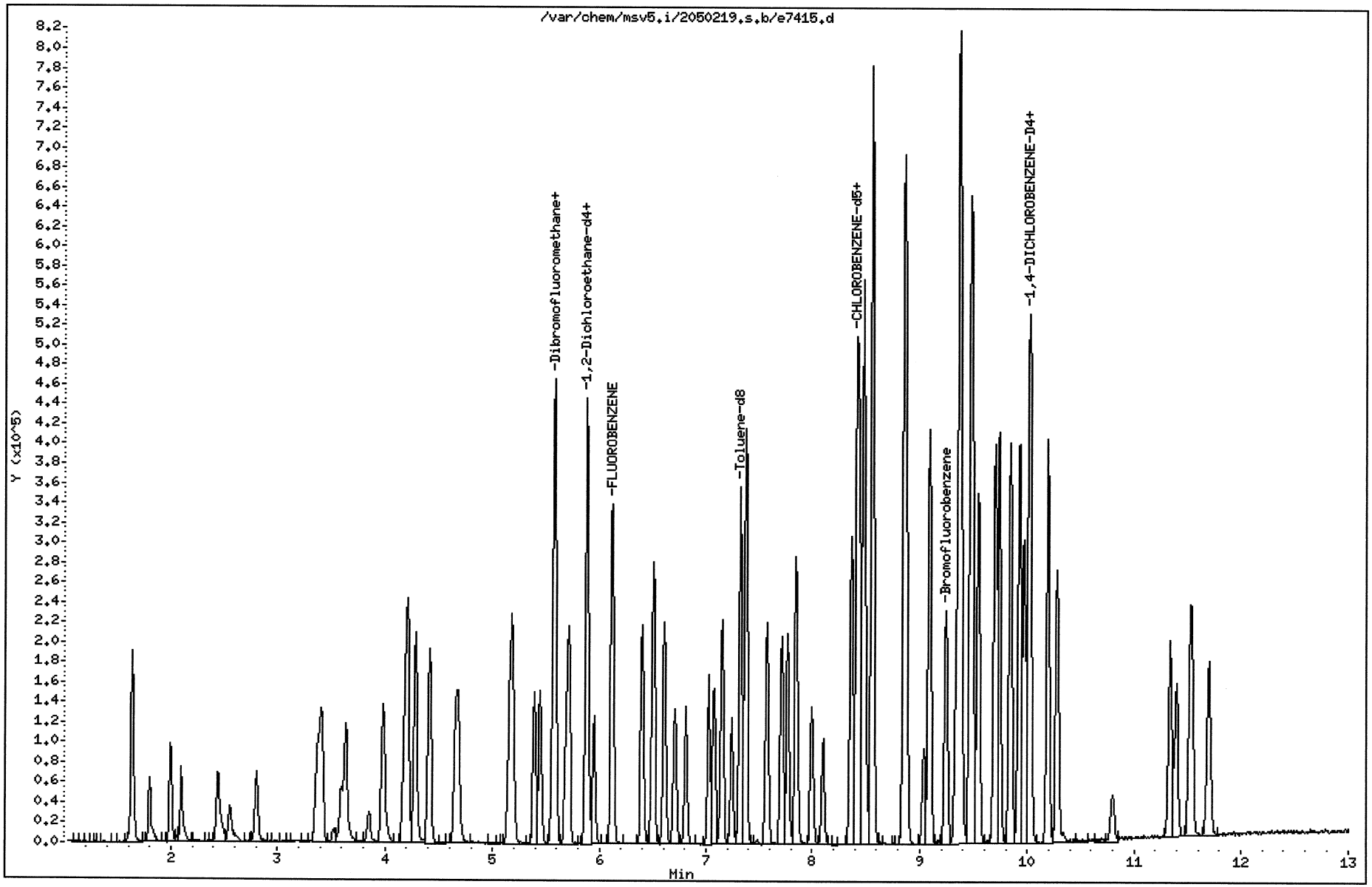
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.247	9.247	(1.099)	79205	50.0000	49.0	
81 1,1,2,2-Tetrachloroethane++	83	9.335	9.335	(0.932)	106459	50.0000	49.9	
82 Bromobenzene	77	9.365	9.365	(0.935)	210742	50.0000	49.4	
84 trans-1,4-Dichloro-2-Butene	53	9.377	9.377	(0.937)	27710	50.0000	51.1	
85 n-Propylbenzene	91	9.371	9.371	(0.936)	421293	50.0000	48.0	
86 1,2,3-Trichloropropane	75	9.382	9.382	(0.937)	134754	50.0000	49.1	
87 2-Chlorotoluene	91	9.471	9.471	(0.946)	275950	50.0000	48.9	
88 1,3,5-Trimethylbenzene	105	9.483	9.483	(0.947)	270517	50.0000	48.8	
89 4-Chlorotoluene	91	9.541	9.541	(0.953)	257763	50.0000	47.4	
91 tert-butylbenzene	91	9.700	9.700	(0.969)	178537	50.0000	48.0	
92 1,2,4-Trimethylbenzene	105	9.741	9.741	(0.973)	280660	50.0000	48.7	
96 sec-Butylbenzene	105	9.847	9.847	(0.984)	358429	50.0000	47.2	
97 p-Isopropyltoluene	119	9.929	9.929	(0.992)	291344	50.0000	47.6	(H)
98 1,3-Dichlorobenzene	146	9.970	9.970	(0.996)	160688	50.0000	48.9	
* 99 1,4-DICHLOROBENZENE-D4	152	10.012	10.012	(1.000)	111117	50.0000		
100 1,4-Dichlorobenzene	146	10.029	10.029	(1.002)	165659	50.0000	49.2	
M 101 TOTAL XYLENE	106				411799	150.000	146	
102 n-Butylbenzene	91	10.193	10.193	(1.018)	284451	50.0000	47.1	
103 1,2-Dichlorobenzene	146	10.276	10.276	(1.026)	146796	50.0000	49.2	
104 1,2-Dibromo-3-Chloropropane	157	10.803	10.803	(1.079)	18496	50.0000	51.3	
106 1,2,4-Trichlorobenzene	180	11.342	11.342	(1.133)	90997	50.0000	50.6	
107 Hexachlorobutadiene	225	11.395	11.395	(1.138)	42776	50.0000	48.5	
108 Naphthalene	128	11.530	11.530	(1.152)	290018	50.0000	54.7	
109 1,2,3-Trichlorobenzene	180	11.700	11.700	(1.169)	88399	50.0000	52.0	
140 1-Bromo-2-chloroethane	63	7.072	7.072	(1.156)	161235	50.0000	50.7	7378
M 139 1-3 Dichloropropene-Total	100				278961	100.000	98.3	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.

Data File: /var/chem/msv5.i/2050219.s.b/e7415.d
Date : 19-FEB-2005 11:47
Client ID: V5STD050
Sample Info: 1203*V5STD050*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

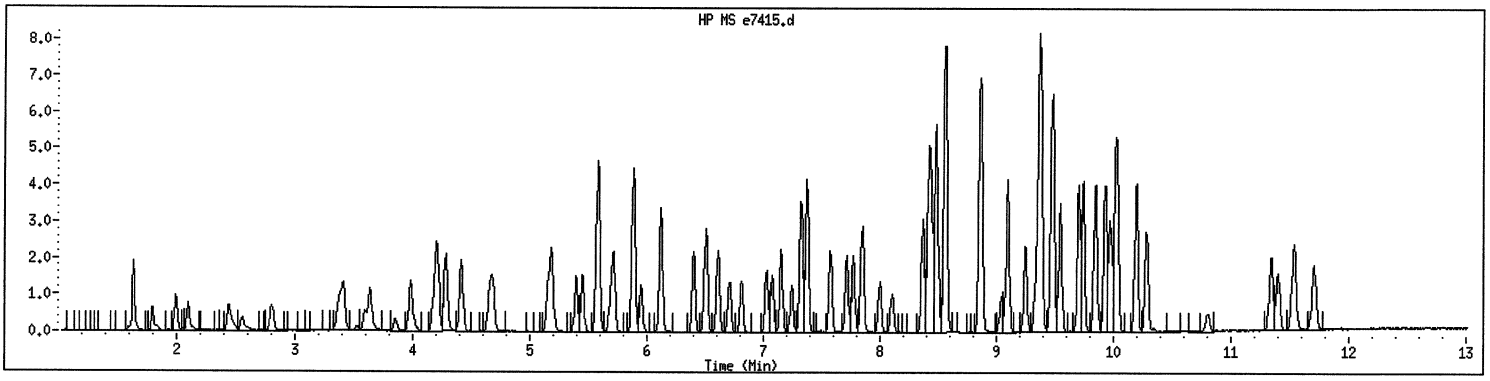
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050219.s.b/e7415.d
Report Date: 02/19/2005 14:26

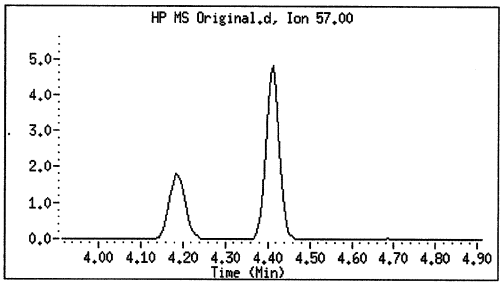
MANUAL INTEGRATION GRAPHIC REPORT

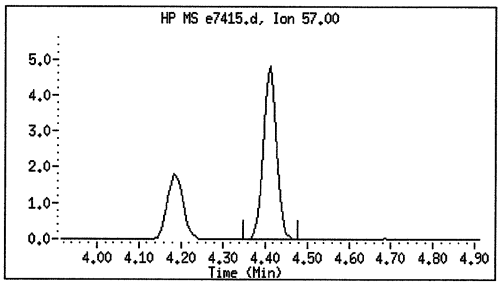
Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 19-FEB-2005 11:47	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1203*V5STD050*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original | Final

24 Hexane CAS#: 110-54-3





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Data file : /var/chem/msv5.i/2050219.s.b/e7416.d
Lab Smp Id: 1204 Client Smp ID: V5STD100
Inj Date : 19-FEB-2005 12:17
Operator : JCK Inst ID: msv5.i
Smp Info : 1204*V5STD100*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 12:17 Cal File: e7416.d
Als bottle: 6 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/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	1.797	1.797	(1.000)	140830	100.000	90.5	
2 Chloromethane ++	50	1.990	1.990	(1.000)	215789	100.000	95.9	
3 Vinyl Chloride +	62	2.096	2.096	(1.000)	169837	100.000	93.8	
5 Bromomethane	94	2.441	2.441	(1.000)	129685	100.000	93.1	
6 Chloroethane	64	2.552	2.552	(1.000)	89223	100.000	95.4	
7 Trichlorofluoromethane	101	2.804	2.804	(1.000)	147289	100.000	90.8	
10 Acrolein	56	3.360	3.360	(1.000)	78655	500.000	487	(A)
11 1,1,2Trichlotrifluoroethane	101	3.383	3.383	(1.000)	98483	100.000	90.4	
12 1,1-Dichloroethene +	96	3.407	3.407	(1.000)	96751	100.000	94.3	
13 Acetone	43	3.524	3.524	(1.000)	45075	100.000	110	
14 Methyl Iodide	142	3.594	3.594	(1.000)	162456	100.000	93.4	
15 Carbon Disulfide	76	3.635	3.635	(1.000)	403339	100.000	93.7	
17 Methyl Acetate	43	3.852	3.852	(1.000)	87967	100.000	91.8	3542(H)
18 Methylene Chloride	49	3.980	3.980	(1.000)	228382	100.000	93.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.185	4.185	(1.000)	383664	100.000	96.6	7856
	21 trans-1,2-Dichloroethene	61	4.209	4.209	(1.000)	209382	100.000	94.8	
	22 Acrylonitrile	53	4.279	4.279	(1.000)	361659	500.000	487	(A)
	24 Hexane	57	4.414	4.414	(1.000)	207147	100.000	87.7	8796
	27 1,1-Dichloroethane ++	63	4.654	4.654	(1.000)	290125	100.000	96.3	
	28 Vinyl Acetate	43	4.683	4.683	(1.000)	415151	100.000	102	
	30 2,2-Dichloropropane	77	5.157	5.157	(1.000)	188304	100.000	95.0	
	31 cis-1,2-Dichloroethene	61	5.181	5.181	(1.000)	263756	100.000	98.4	
	32 2-Butanone	43	5.198	5.198	(1.000)	94045	100.000	107	
	35 Bromochloromethane	128	5.392	5.392	(1.000)	88478	100.000	97.6	
	36 Chloroform +	83	5.450	5.450	(1.000)	248380	100.000	98.9	
	37 Cyclohexane	56	5.574	5.574	(1.000)	250353	100.000	89.0	8953
$	38 Dibromofluoromethane	111	5.585	5.585	(1.000)	166951	100.000	99.1	8802
	39 1,1,1-Trichloroethane	97	5.580	5.580	(1.000)	181323	100.000	97.4	
	40 Carbon Tetrachloride	117	5.691	5.691	(1.000)	146189	100.000	96.3	
	41 1,1-Dichloropropene	75	5.715	5.715	(1.000)	198737	100.000	95.4	
M	42 Total 1,2-Dichloroethene	61				473138	200.000	193	
	44 Benzene	78	5.879	5.879	(1.000)	609883	100.000	93.7	
$	45 1,2-Dichloroethane-d4	67	5.885	5.885	(1.000)	90021	100.000	97.9	
	46 1,2-Dichloroethane	62	5.949	5.949	(1.000)	197517	100.000	103	
*	47 FLUOROBENZENE	96	6.119	6.119	(1.000)	319847	50.0000		(M)
	49 Trichloroethene	130	6.400	6.400	(1.000)	164159	100.000	97.6	
	50 Methyl Cyclohexane	83	6.506	6.506	(1.000)	226694	100.000	89.7	9039
	51 1,2-Dichloropropane +	63	6.611	6.611	(1.000)	198868	100.000	97.5	
	55 Dibromomethane	93	6.705	6.705	(1.000)	117112	100.000	97.9	
	56 Bromodichloromethane	83	6.811	6.811	(1.000)	193429	100.000	104	
	57 2-Chloroethyl vinyl ether	63	7.027	7.027	(1.000)	152440	100.000	98.7	
	58 cis-1,3-Dichloropropene	75	7.150	7.150	(1.000)	290775	100.000	99.2	
	59 4-methyl-2-pentanone	43	7.244	7.244	(1.000)	215272	100.000	96.4	
$	60 Toluene-d8	98	7.321	7.321	(0.870)	521046	100.000	95.9	
	61 Toluene +	91	7.374	7.374	(0.876)	640543	100.000	95.5	
	63 trans-1,3-Dichloropropene	75	7.573	7.573	(0.900)	277151	100.000	102	
	64 1,1,2-Trichloroethane	97	7.713	7.713	(0.916)	155414	100.000	101	
	65 Tetrachloroethene	164	7.772	7.772	(0.923)	113874	100.000	93.6	
	66 1,3-Dichloropropane	76	7.843	7.843	(0.932)	297419	100.000	97.7	
	67 2-Hexanone	43	7.854	7.854	(0.933)	147751	100.000	105	
	68 Dibromochloromethane	129	8.001	8.001	(0.951)	185476	100.000	109	
	69 1,2-Dibromoethane(EDB)	107	8.101	8.101	(0.962)	179246	100.000	99.3	
*	70 CHLOROBENZENE-d5	82	8.417	8.417	(1.000)	138245	50.0000		
	71 Chlorobenzene ++	112	8.441	8.441	(1.003)	439994	100.000	96.5	
	72 Ethylbenzene +	106	8.476	8.476	(1.007)	224252	100.000	98.8	
	73 1,1,1,2-Tetrachloroethane	133	8.494	8.494	(1.009)	141999	100.000	101	
	74 p,m-Xylene	106	8.559	8.559	(1.017)	538936	200.000	193	
	75 o-Xylene	106	8.857	8.857	(1.052)	266583	100.000	96.4	
	76 Styrene	104	8.869	8.869	(1.054)	485593	100.000	97.3	
	77 Bromoform ++	173	9.045	9.045	(1.075)	110849	100.000	106	
	78 Isopropylbenzene	105	9.092	9.092	(1.080)	645455	100.000	94.9	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.245	9.245	(1.098)	159987	100.000	99.9	
81 1,1,2,2-Tetrachloroethane++	83	9.333	9.333	(0.932)	203737	100.000	95.8	
82 Bromobenzene	77	9.362	9.362	(0.935)	406079	100.000	95.5	
84 trans-1,4-Dichloro-2-Butene	53	9.374	9.374	(0.936)	54048	100.000	100	
85 n-Propylbenzene	91	9.374	9.374	(0.936)	818257	100.000	93.6	
86 1,2,3-Trichloropropane	75	9.380	9.380	(0.937)	264073	100.000	96.5	
87 2-Chlorotoluene	91	9.474	9.474	(0.946)	537865	100.000	95.7	
88 1,3,5-Trimethylbenzene	105	9.486	9.486	(0.947)	535605	100.000	96.9	
89 4-Chlorotoluene	91	9.545	9.545	(0.953)	508632	100.000	93.9	
91 tert-butylbenzene	91	9.704	9.704	(0.969)	339193	100.000	91.6	
92 1,2,4-Trimethylbenzene	105	9.739	9.739	(0.972)	547671	100.000	95.4	
96 sec-Butylbenzene	105	9.845	9.845	(0.983)	708164	100.000	93.7	
97 p-Isopropyltoluene	119	9.927	9.927	(0.991)	570531	100.000	93.6	(H)
98 1,3-Dichlorobenzene	146	9.974	9.974	(0.996)	321365	100.000	98.1	
* 99 1,4-DICHLOROBENZENE-D4	152	10.016	10.016	(1.000)	110673	50.0000		
100 1,4-Dichlorobenzene	146	10.034	10.034	(1.002)	316811	100.000	94.5	
M 101 TOTAL XYLENE	106				805519	300.000	289	
102 n-Butylbenzene	91	10.192	10.192	(1.018)	559727	100.000	93.0	
103 1,2-Dichlorobenzene	146	10.280	10.280	(1.026)	291461	100.000	98.0	
104 1,2-Dibromo-3-Chloropropane	157	10.801	10.801	(1.078)	35544	100.000	98.9	
106 1,2,4-Trichlorobenzene	180	11.346	11.346	(1.133)	179208	100.000	100	
107 Hexachlorobutadiene	225	11.400	11.400	(1.138)	81360	100.000	92.7	
108 Naphthalene	128	11.535	11.535	(1.152)	507593	100.000	96.1	
109 1,2,3-Trichlorobenzene	180	11.705	11.705	(1.169)	165146	100.000	97.5	
140 1-Bromo-2-chloroethane	63	7.074	7.074	(1.000)	311991	100.000	98.0	7213
M 139 1-3 Dichloropropene-Total	100				567926	200.000	201	0

QC Flag Legend

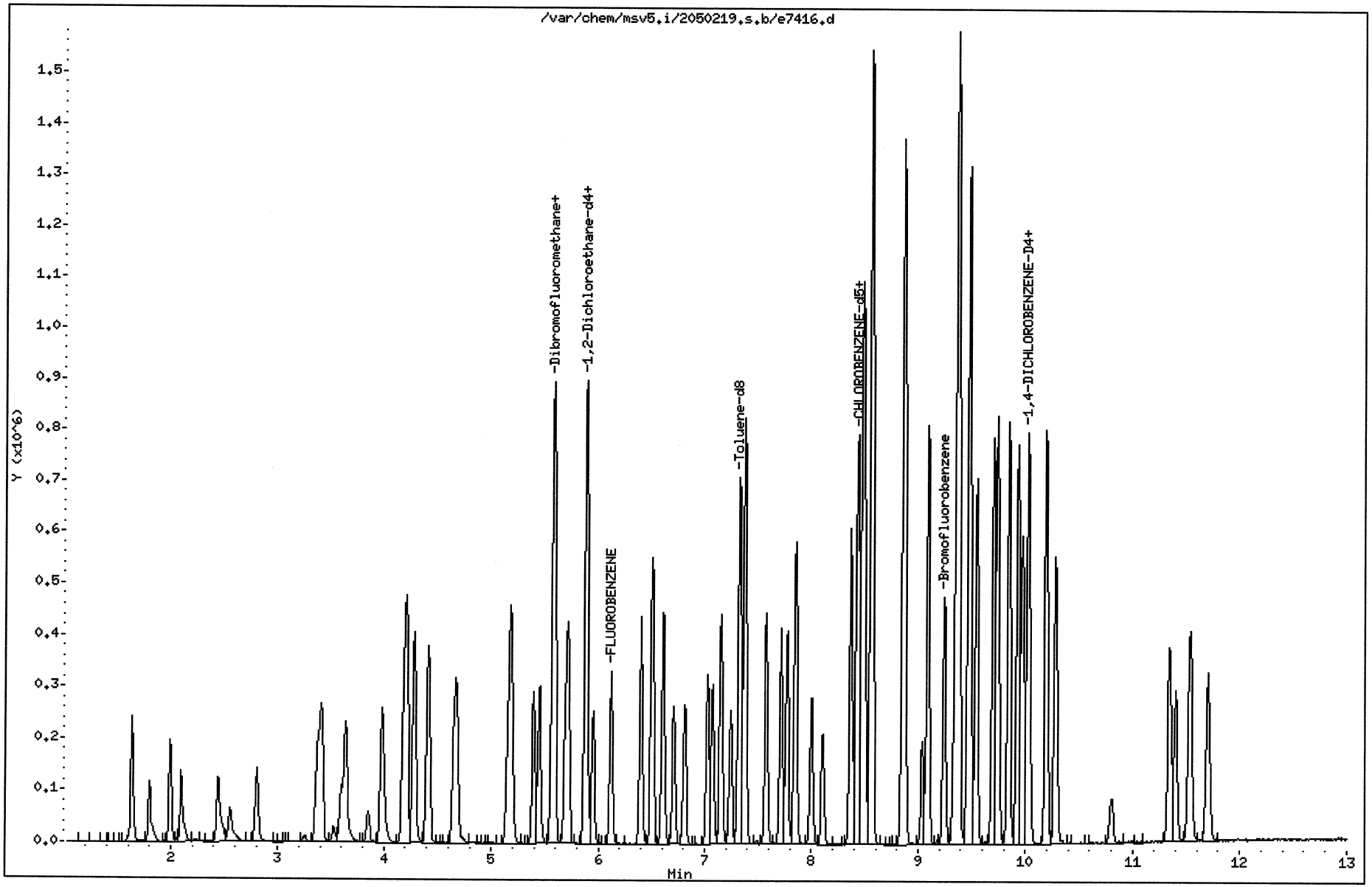
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050219.s.b/e7416.d
Date : 19-FEB-2005 12:17
Client ID: V5STD100
Sample Info: 1204*V5STD100*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: JCK
Column diameter: 0.53

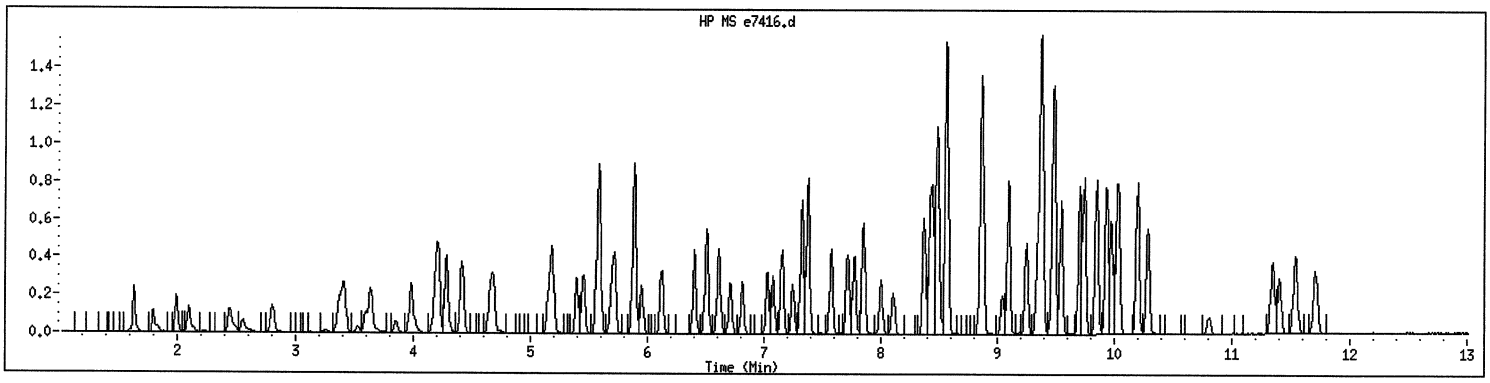
000151



Data file : /var/chem/msv5.i/2050219.s.b/e7416.d
Report Date: 02/19/2005 14:26

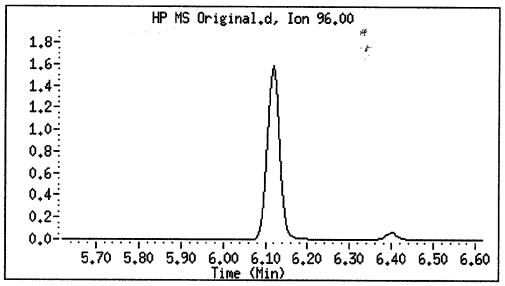
MANUAL INTEGRATION GRAPHIC REPORT

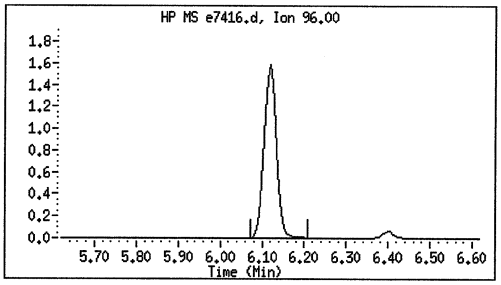
Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 19-FEB-2005 12:17	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1204*V5STD100*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original | Final

* 47 FLUOROBENZENE CAS#: 462-06-6





GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7417.d
Lab Smp Id: 1205 Client Smp ID: V5STD200
Inj Date : 19-FEB-2005 12:40
Operator : JCK Inst ID: msv5.i
Smp Info : 1205*V5STD200*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 12:40 Cal File: e7417.d
Als bottle: 7 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/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	1.797	1.797	(1.000)	329893	200.000	213	(A)
2 Chloromethane ++	50	1.996	1.996	(1.000)	437430	200.000	196	
3 Vinyl Chloride +	62	2.096	2.096	(1.000)	364160	200.000	202	(A)
5 Bromomethane	94	2.424	2.424	(1.000)	234527	200.000	169	
6 Chloroethane	64	2.547	2.547	(1.000)	178777	200.000	192	
7 Trichlorofluoromethane	101	2.798	2.798	(1.000)	323506	200.000	201	(A)
10 Acrolein	56	3.354	3.354	(1.000)	164179	1000.00	1000	(A)
11 1,1,2Trichlotrifluoroethane	101	3.378	3.378	(1.000)	230080	200.000	212	(A)
12 1,1-Dichloroethene +	96	3.407	3.407	(1.000)	202414	200.000	199	
13 Acetone	43	3.525	3.525	(1.000)	66953	200.000	197	
14 Methyl Iodide	142	3.595	3.595	(1.000)	349747	200.000	202	(A)
15 Carbon Disulfide	76	3.636	3.636	(1.000)	845551	200.000	197	
17 Methyl Acetate	43	3.847	3.847	(1.000)	175813	200.000	185	3493(H)
18 Methylene Chloride	49	3.981	3.981	(1.000)	452298	200.000	186	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.186	4.186	(1.000)	766811	200.000	194	8168
	21 trans-1,2-Dichloroethene	61	4.210	4.210	(1.000)	434718	200.000	198	
	22 Acrylonitrile	53	4.280	4.280	(1.000)	709766	1000.00	961	(A)
	24 Hexane	57	4.409	4.409	(1.000)	484191	200.000	206	8796(A)
	27 1,1-Dichloroethane ++	63	4.655	4.655	(1.000)	584865	200.000	195	
	28 Vinyl Acetate	43	4.679	4.679	(1.000)	776750	200.000	193	
	30 2,2-Dichloropropane	77	5.159	5.159	(1.000)	389509	200.000	198	
	31 cis-1,2-Dichloroethene	61	5.182	5.182	(1.000)	525175	200.000	197	
	32 2-Butanone	43	5.200	5.200	(1.000)	167882	200.000	192	
	35 Bromochloromethane	128	5.399	5.399	(1.000)	172480	200.000	191	
	36 Chloroform +	83	5.446	5.446	(1.000)	505656	200.000	203	(A)
	37 Cyclohexane	56	5.575	5.575	(1.000)	558380	200.000	200	8991
$	38 Dibromofluoromethane	111	5.587	5.587	(1.000)	323203	200.000	193	8925
	39 1,1,1-Trichloroethane	97	5.575	5.575	(1.000)	375773	200.000	203	(A)
	40 Carbon Tetrachloride	117	5.687	5.687	(1.000)	317310	200.000	210	(A)
	41 1,1-Dichloropropene	75	5.716	5.716	(1.000)	425547	200.000	206	(A)
M	42 Total 1,2-Dichloroethene	61				959893	400.000	395	
	44 Benzene	78	5.881	5.881	(1.000)	1224716	200.000	189	
$	45 1,2-Dichloroethane-d4	67	5.887	5.887	(1.000)	176858	200.000	193	
	46 1,2-Dichloroethane	62	5.951	5.951	(1.000)	393459	200.000	206	(A)
*	47 FLUOROBENZENE	96	6.121	6.121	(1.000)	317982	50.0000		(M)
	49 Trichloroethene	130	6.402	6.402	(1.000)	334258	200.000	200	
	50 Methyl Cyclohexane	83	6.508	6.508	(1.000)	533818	200.000	213	8989(A)
	51 1,2-Dichloropropane +	63	6.608	6.608	(1.000)	401314	200.000	198	
	55 Dibromomethane	93	6.707	6.707	(1.000)	236960	200.000	199	
	56 Bromodichloromethane	83	6.813	6.813	(1.000)	389376	200.000	210	(A)
	57 2-Chloroethyl vinyl ether	63	7.024	7.024	(1.000)	322158	200.000	210	(A)
	58 cis-1,3-Dichloropropene	75	7.147	7.147	(1.000)	589462	200.000	202	(A)
	59 4-methyl-2-pentanone	43	7.241	7.241	(1.000)	432041	200.000	195	
$	60 Toluene-d8	98	7.324	7.324	(0.870)	1046633	200.000	194	
	61 Toluene +	91	7.371	7.371	(0.876)	1289431	200.000	193	
	63 trans-1,3-Dichloropropene	75	7.576	7.576	(0.900)	553651	200.000	204	(A)
	64 1,1,2-Trichloroethane	97	7.717	7.717	(0.917)	310906	200.000	203	(A)
	65 Tetrachloroethene	164	7.770	7.770	(0.923)	240699	200.000	199	
	66 1,3-Dichloropropane	76	7.846	7.846	(0.932)	590013	200.000	195	
	67 2-Hexanone	43	7.858	7.858	(0.934)	278761	200.000	199	
	68 Dibromochloromethane	129	7.999	7.999	(0.951)	363773	200.000	216	(A)
	69 1,2-Dibromoethane(EDB)	107	8.104	8.104	(0.963)	364116	200.000	203	(A)
*	70 CHLOROBENZENE-d5	82	8.415	8.415	(1.000)	137585	50.0000		
	71 Chlorobenzene ++	112	8.439	8.439	(1.003)	865014	200.000	191	
	72 Ethylbenzene +	106	8.474	8.474	(1.007)	445082	200.000	197	
	73 1,1,1,2-Tetrachloroethane	133	8.492	8.492	(1.009)	281500	200.000	202	(A)
	74 p,m-Xylene	106	8.563	8.563	(1.018)	1062161	400.000	382	(A)
	75 o-Xylene	106	8.856	8.856	(1.052)	523691	200.000	190	
	76 Styrene	104	8.873	8.873	(1.054)	950775	200.000	192	
	77 Bromoform ++	173	9.044	9.044	(1.075)	225841	200.000	217	(A)
	78 Isopropylbenzene	105	9.097	9.097	(1.081)	1287072	200.000	190	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.249	9.249	(1.099)	308979	200.000	194	
81 1,1,2,2-Tetrachloroethane++	83	9.338	9.338	(0.932)	398994	200.000	199	
82 Bromobenzene	77	9.361	9.361	(0.935)	770387	200.000	192	
84 trans-1,4-Dichloro-2-Butene	53	9.373	9.373	(0.936)	103174	200.000	202	(A)
85 n-Propylbenzene	91	9.373	9.373	(0.936)	1595222	200.000	193	
86 1,2,3-Trichloropropane	75	9.385	9.385	(0.937)	506629	200.000	196	
87 2-Chlorotoluene	91	9.474	9.474	(0.946)	1012339	200.000	191	
88 1,3,5-Trimethylbenzene	105	9.485	9.485	(0.947)	1044256	200.000	200	
89 4-Chlorotoluene	91	9.544	9.544	(0.953)	1002013	200.000	196	
91 tert-butylbenzene	91	9.703	9.703	(0.969)	689000	200.000	197	
92 1,2,4-Trimethylbenzene	105	9.744	9.744	(0.973)	1052440	200.000	194	
96 sec-Butylbenzene	105	9.844	9.844	(0.983)	1402897	200.000	197	
97 p-Isopropyltoluene	119	9.927	9.927	(0.991)	1126666	200.000	196	
98 1,3-Dichlorobenzene	146	9.974	9.974	(0.996)	616528	200.000	199	
* 99 1,4-DICHLOROBENZENE-D4	152	10.016	10.016	(1.000)	104562	50.0000		
100 1,4-Dichlorobenzene	146	10.033	10.033	(1.002)	605010	200.000	191	
M 101 TOTAL XYLENE	106				1585852	600.000	572	
102 n-Butylbenzene	91	10.192	10.192	(1.018)	1108937	200.000	195	
103 1,2-Dichlorobenzene	146	10.280	10.280	(1.026)	560513	200.000	199	
104 1,2-Dibromo-3-Chloropropane	157	10.808	10.808	(1.079)	70108	200.000	207	(A)
106 1,2,4-Trichlorobenzene	180	11.341	11.341	(1.132)	339197	200.000	201	(A)
107 Hexachlorobutadiene	225	11.400	11.400	(1.138)	168500	200.000	203	(A)
108 Naphthalene	128	11.535	11.535	(1.152)	984605	200.000	197	
109 1,2,3-Trichlorobenzene	180	11.700	11.700	(1.168)	314660	200.000	197	
140 1-Bromo-2-chloroethane	63	7.071	7.071	(1.000)	619059	200.000	196	7279
M 139 1-3 Dichloropropene-Total	100				1143113	400.000	407	0

QC Flag Legend

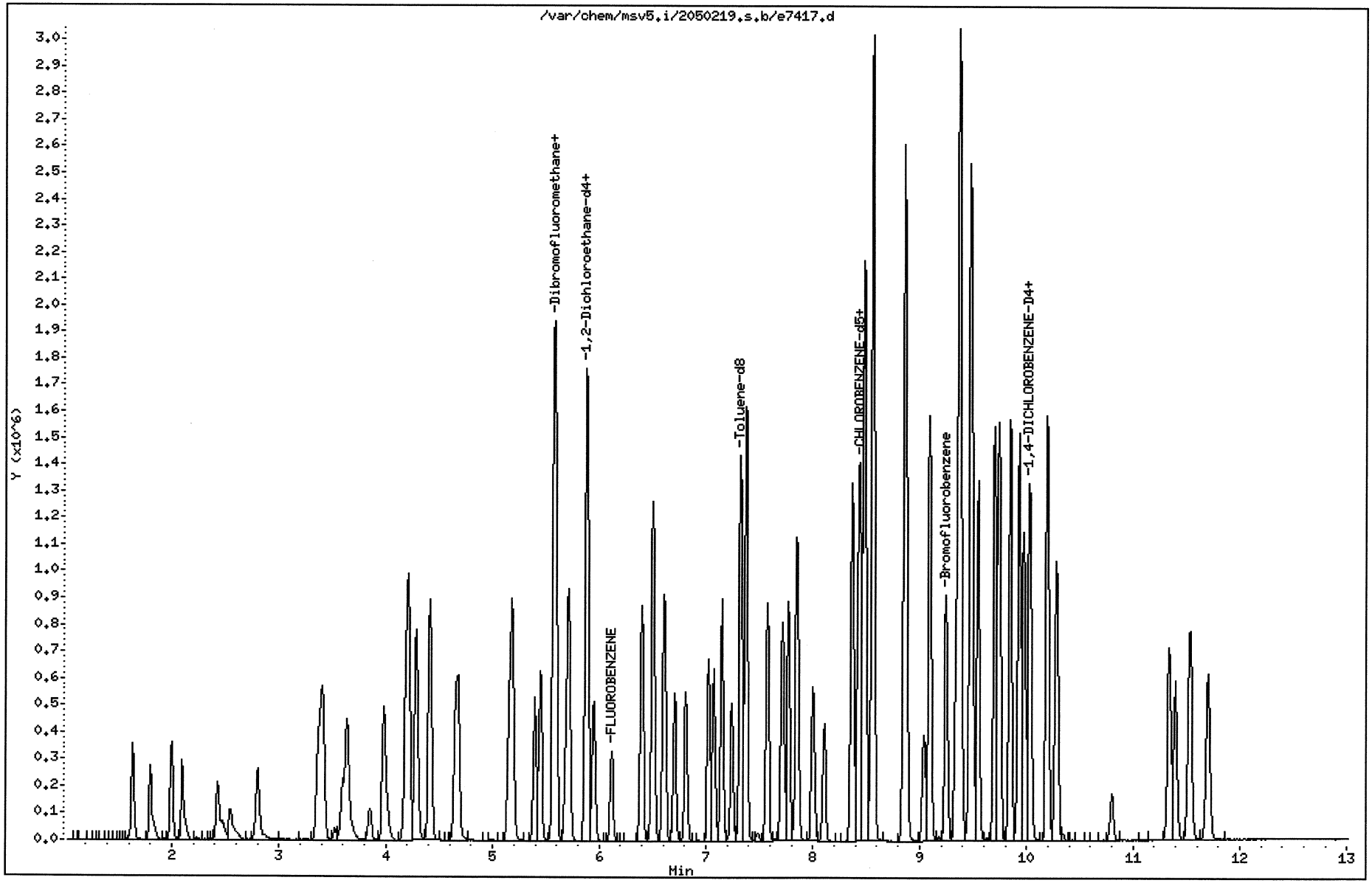
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050219.s.b/e7417.d
Date : 19-FEB-2005 12:40
Client ID: V5STD200
Sample Info: 1205*V5STD200*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: JCK
Column diameter: 0.53

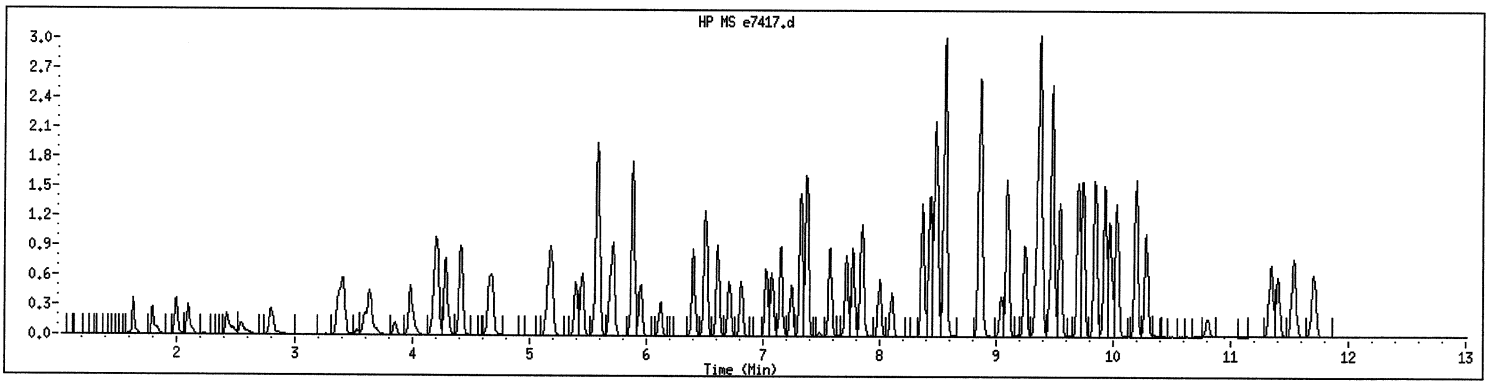
000156



Data file : /var/chem/msv5.i/2050219.s.b/e7417.d
Report Date: 02/19/2005 14:26

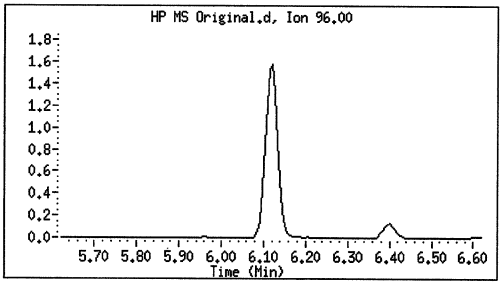
MANUAL INTEGRATION GRAPHIC REPORT

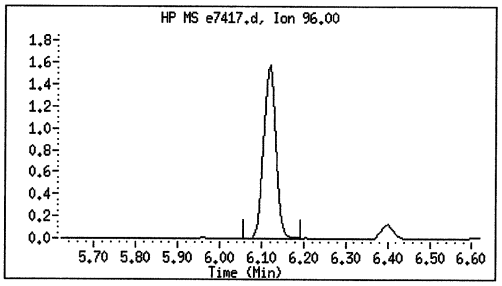
Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 19-FEB-2005 12:40	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1205*V5STD200*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original | Final

* 47 FLUOROBENZENE CAS#: 462-06-6





GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7412.d
Lab Smp Id: 1206 Client Smp ID: V5STD002
Inj Date : 19-FEB-2005 09:31
Operator : JCK Inst ID: msv5.i
Smp Info : 1206*V5STD002*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 19-Feb-2005 14:26 jck Quant Type: ISTD
Cal Date : 19-FEB-2005 09:31 Cal File: e7412.d
Als bottle: 2 Calibration Sample, Level: 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	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	1.791	1.791	(0.293)	2597	2.00000	1.83	
2 Chloromethane ++	50	1.990	1.990	(0.326)	4202	2.00000	2.05	
3 Vinyl Chloride +	62	2.096	2.096	(0.343)	3357	2.00000	2.03	
5 Bromomethane	94	2.441	2.441	(0.399)	3467	2.00000	2.73	
6 Chloroethane	64	2.546	2.546	(0.416)	1156	2.00000	1.35	(M)
7 Trichlorofluoromethane	101	2.809	2.809	(0.459)	3308	2.00000	2.23	
10 Acrolein	56	3.358	3.358	(0.549)	344	10.0000	19.2	
11 1,1,2Trichlotrifluoroethane	101	3.382	3.382	(0.553)	1385	2.00000	1.39	
12 1,1-Dichloroethene +	96	3.411	3.411	(0.558)	1905	2.00000	2.04	
13 Acetone	43	3.516	3.516	(0.575)	2705	2.00000	7.44	(M)
14 Methyl Iodide	142	3.587	3.587	(0.587)	3338	2.00000	2.10	
15 Carbon Disulfide	76	3.633	3.633	(0.594)	8130	2.00000	2.07	
17 Methyl Acetate	43	3.838	3.838	(0.628)	2387	2.00000	2.73	0 (M)
18 Methylene Chloride	49	3.978	3.978	(0.651)	7279	2.00000	3.25	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.189	4.189	(0.685)	7704	2.00000	2.12	7283
	21 trans-1,2-Dichloroethene	61	4.207	4.207	(0.688)	3692	2.00000	1.83	
	22 Acrylonitrile	53	4.277	4.277	(0.700)	7102	10.0000	10.5	
	24 Hexane	57	4.417	4.417	(0.723)	5196	2.00000	2.41	0 (M)
	27 1,1-Dichloroethane ++	63	4.651	4.651	(0.761)	5940	2.00000	2.16	(M)
	28 Vinyl Acetate	43	4.686	4.686	(0.767)	7880	2.00000	2.13	
	30 2,2-Dichloropropane	77	5.154	5.154	(0.843)	4134	2.00000	2.28	(M)
	31 cis-1,2-Dichloroethene	61	5.183	5.183	(0.848)	4814	2.00000	1.97	
	32 2-Butanone	43	5.206	5.206	(0.852)	1914	2.00000	2.39	
	35 Bromochloromethane	128	5.394	5.394	(0.882)	624	2.00000	0.754	
	36 Chloroform +	83	5.446	5.446	(0.891)	4238	2.00000	1.85	
	37 Cyclohexane	56	5.569	5.569	(0.911)	5667	2.00000	2.21	8559
$	38 Dibromofluoromethane	111	5.587	5.587	(0.914)	2903	2.00000	1.89	8223 (a)
	39 1,1,1-Trichloroethane	97	5.575	5.575	(0.912)	3060	2.00000	1.80	
	40 Carbon Tetrachloride	117	5.686	5.686	(0.930)	2219	2.00000	1.60	
	41 1,1-Dichloropropene	75	5.709	5.709	(0.934)	3623	2.00000	1.91	
M	42 Total 1,2-Dichloroethene	61				8506	4.00000	3.80	
	44 Benzene	78	5.885	5.885	(0.963)	12312	2.00000	2.07	
$	45 1,2-Dichloroethane-d4	67	5.885	5.885	(0.963)	1518	2.00000	1.81	(a)
	46 1,2-Dichloroethane	62	5.944	5.944	(0.972)	3153	2.00000	1.80	(M)
*	47 FLUOROBENZENE	96	6.113	6.113	(1.000)	291928	50.0000		
	49 Trichloroethene	130	6.400	6.400	(1.047)	2979	2.00000	1.94	
	50 Methyl Cyclohexane	83	6.499	6.499	(1.063)	4699	2.00000	2.04	8402
	51 1,2-Dichloropropane +	63	6.605	6.605	(1.080)	3624	2.00000	1.95	
	55 Dibromomethane	93	6.710	6.710	(1.098)	2145	2.00000	1.96	
	56 Bromodichloromethane	83	6.815	6.815	(1.115)	3039	2.00000	1.79	
	57 2-Chloroethyl vinyl ether	63	7.031	7.031	(1.150)	2391	2.00000	1.70	(M)
	58 cis-1,3-Dichloropropene	75	7.148	7.148	(1.169)	5344	2.00000	2.00	(H)
	59 4-methyl-2-pentanone	43	7.242	7.242	(1.185)	3925	2.00000	1.93	
$	60 Toluene-d8	98	7.318	7.318	(0.870)	10167	2.00000	2.07	(a)
	61 Toluene +	91	7.371	7.371	(0.876)	13018	2.00000	2.14	(M)
	63 trans-1,3-Dichloropropene	75	7.575	7.575	(0.901)	4352	2.00000	1.76	
	64 1,1,2-Trichloroethane	97	7.710	7.710	(0.917)	2420	2.00000	1.74	
	65 Tetrachloroethene	164	7.774	7.774	(0.924)	2256	2.00000	2.05	
	66 1,3-Dichloropropane	76	7.839	7.839	(0.932)	5738	2.00000	2.08	
	67 2-Hexanone	43	7.862	7.862	(0.935)	3090	2.00000	2.42	(M)
	68 Dibromochloromethane	129	8.002	8.002	(0.951)	2384	2.00000	1.55	(M)
	69 1,2-Dibromoethane (EDB)	107	8.102	8.102	(0.963)	3153	2.00000	1.93	
*	70 CHLOROBENZENE-d5	82	8.412	8.412	(1.000)	125177	50.0000		
	71 Chlorobenzene ++	112	8.435	8.435	(1.003)	8744	2.00000	2.12	
	72 Ethylbenzene +	106	8.471	8.471	(1.007)	3647	2.00000	1.77	
	73 1,1,1,2-Tetrachloroethane	133	8.494	8.494	(1.010)	2352	2.00000	1.85	(M)
	74 p,m-Xylene	106	8.559	8.559	(1.017)	11152	4.00000	4.41	
	75 o-Xylene	106	8.863	8.863	(1.054)	4809	2.00000	1.92	
	76 Styrene	104	8.868	8.868	(1.054)	8440	2.00000	1.87	
	77 Bromoform ++	173	9.038	9.038	(1.074)	1244	2.00000	1.31	
	78 Isopropylbenzene	105	9.091	9.091	(1.081)	12907	2.00000	2.10	

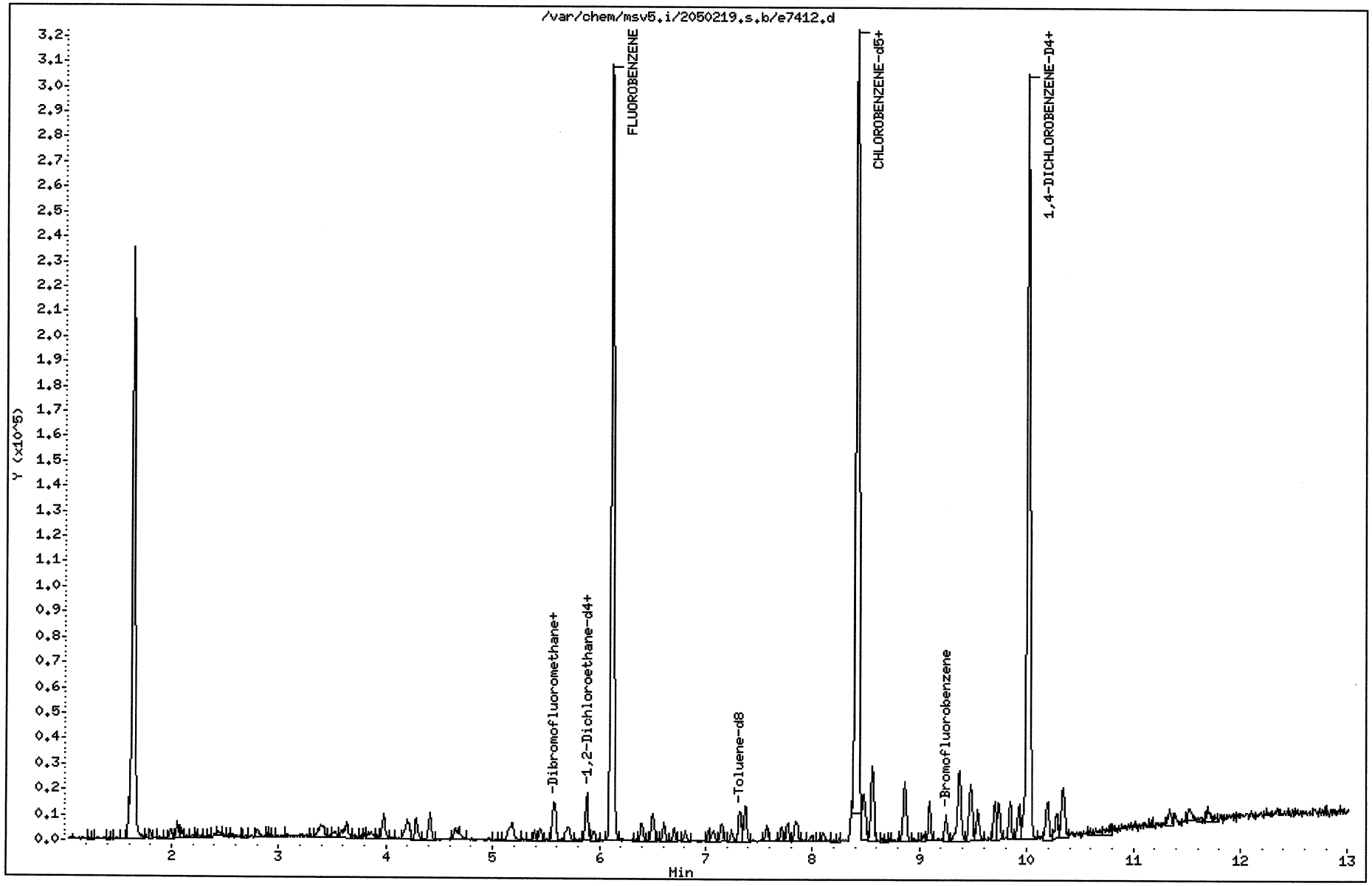
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.243	9.243	(1.099)	3049	2.00000	2.10	(a)
81 1,1,2,2-Tetrachloroethane++	83	9.325	9.325	(0.932)	3731	2.00000	1.97	
82 Bromobenzene	77	9.372	9.372	(0.936)	8416	2.00000	2.22	
84 trans-1,4-Dichloro-2-Butene	53	9.377	9.377	(0.937)	512	2.00000	1.06	
85 n-Propylbenzene	91	9.372	9.372	(0.936)	16965	2.00000	2.18	
86 1,2,3-Trichloropropane	75	9.372	9.372	(0.936)	4768	2.00000	1.95	
87 2-Chlorotoluene	91	9.471	9.471	(0.946)	10585	2.00000	2.11	
88 1,3,5-Trimethylbenzene	105	9.477	9.477	(0.947)	10541	2.00000	2.14	
89 4-Chlorotoluene	91	9.541	9.541	(0.953)	9824	2.00000	2.03	
91 tert-butylbenzene	91	9.699	9.699	(0.969)	7436	2.00000	2.25	
92 1,2,4-Trimethylbenzene	105	9.746	9.746	(0.974)	11463	2.00000	2.24	
96 sec-Butylbenzene	105	9.840	9.840	(0.983)	15393	2.00000	2.28	(H)
97 p-Isopropyltoluene	119	9.928	9.928	(0.992)	11901	2.00000	2.19	(H)
98 1,3-Dichlorobenzene	146	9.974	9.974	(0.996)	5996	2.00000	2.05	
* 99 1,4-DICHLOROBENZENE-D4	152	10.010	10.010	(1.000)	98728	50.0000		
100 1,4-Dichlorobenzene	146	10.039	10.039	(1.003)	5938	2.00000	1.99	
M 101 TOTAL XYLENE	106				15961	6.00000	6.33	
102 n-Butylbenzene	91	10.185	10.185	(1.018)	11230	2.00000	2.09	
103 1,2-Dichlorobenzene	146	10.279	10.279	(1.027)	4974	2.00000	1.87	
106 1,2,4-Trichlorobenzene	180	11.338	11.338	(1.133)	2761	2.00000	1.73	
108 Naphthalene	128	11.531	11.531	(1.152)	8661	2.00000	1.84	
109 1,2,3-Trichlorobenzene	180	11.701	11.701	(1.169)	2674	2.00000	1.77	
140 1-Bromo-2-chloroethane	63	7.067	7.067	(1.156)	5962	2.00000	2.05	0 (M)
M 139 1-3 Dichloropropene-Total	100				9696	4.00000	3.76	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/2050219.s.b/e7412.d
Date : 19-FEB-2005 09:31
Client ID: V5STD002
Sample Info: 1206*V5STD002*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

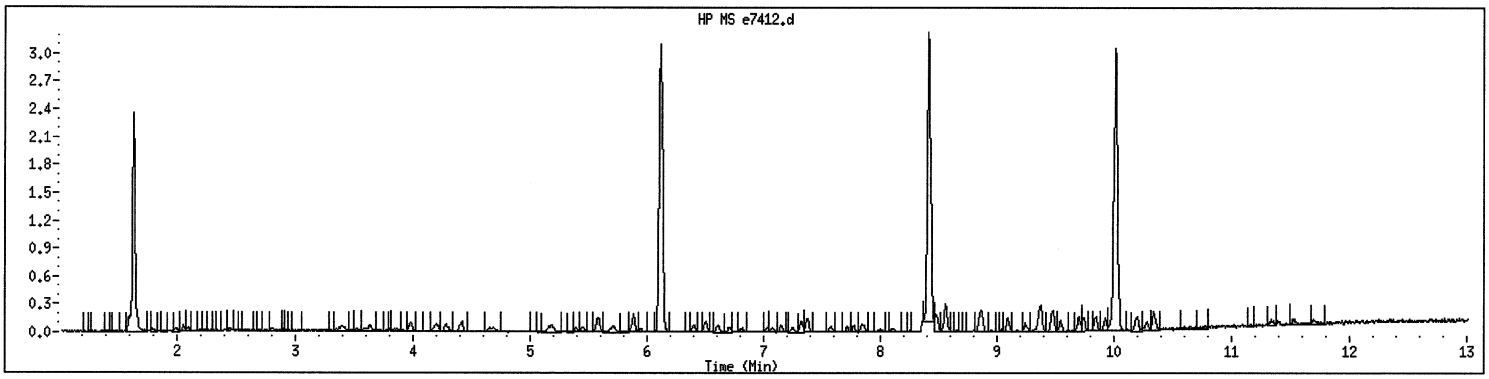
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050219.s.b/e7412.d
Report Date: 02/19/2005 14:26

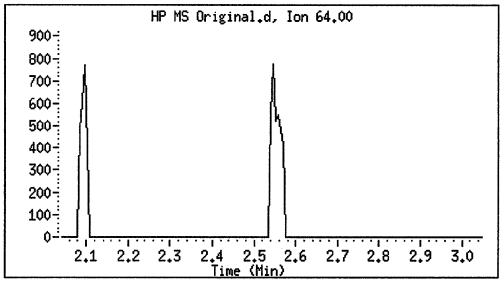
MANUAL INTEGRATION GRAPHIC REPORT

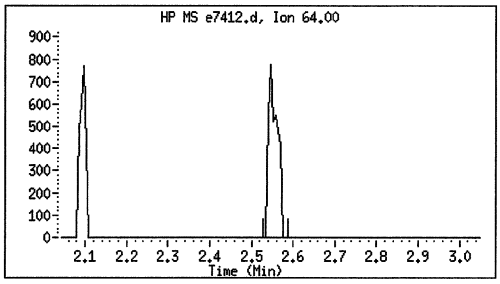
Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 19-FEB-2005 09:31	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1206*V5STD002*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



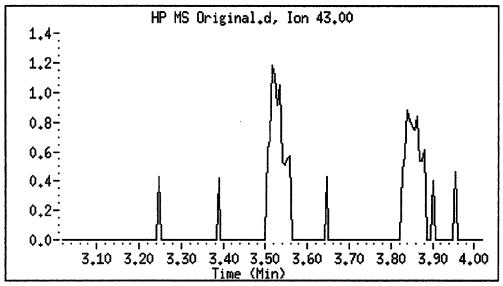
Original | Final

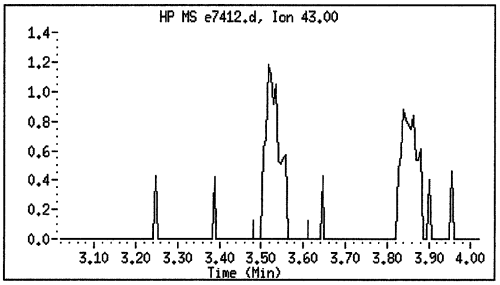
6 Chloroethane CAS#: 75-00-3





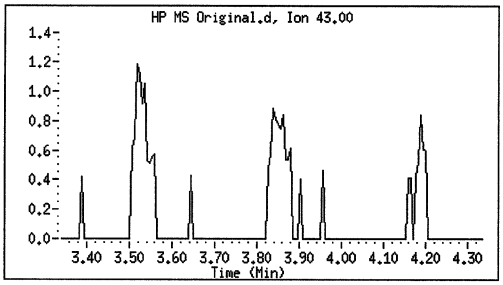
13 Acetone CAS#: 67-64-1

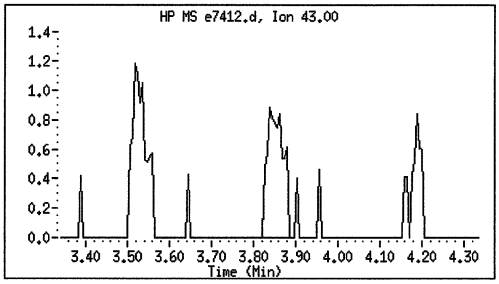




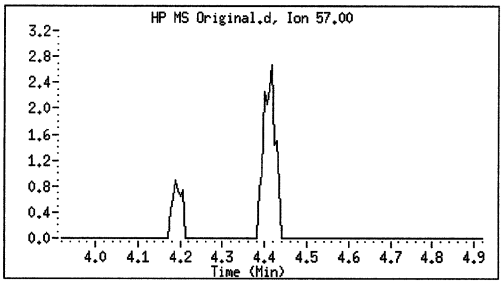
Original | Final

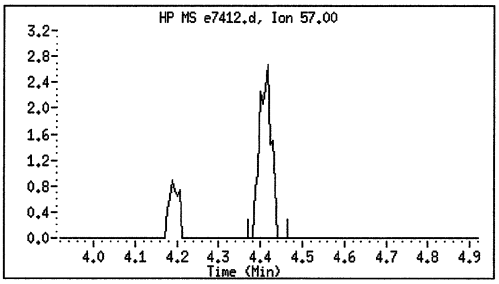
17 Methyl Acetate CAS#: 79-20-9



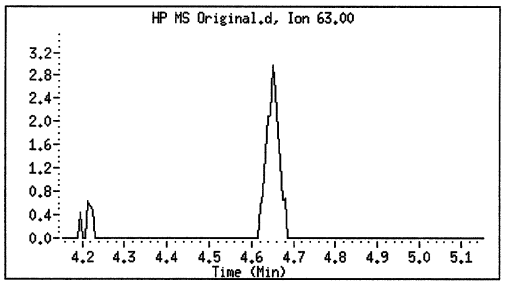


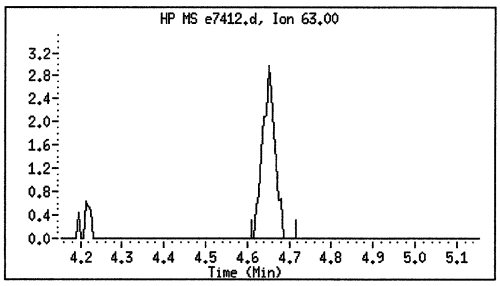
24 Hexane CAS#: 110-54-3



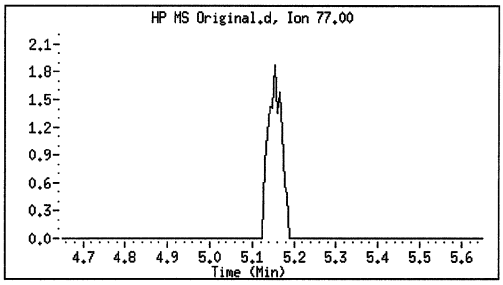


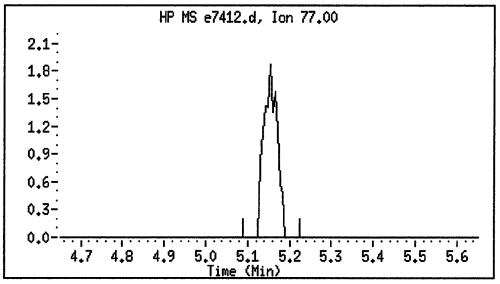
27 1,1-Dichloroethane ++ CAS#: 75-34-3



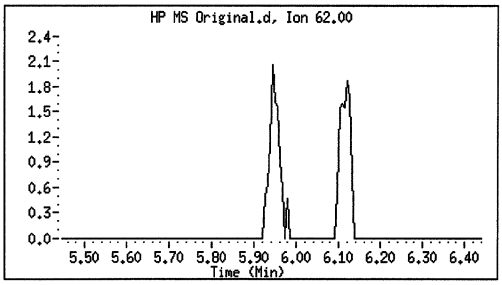


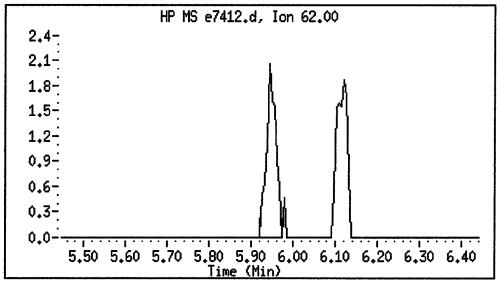
30 2,2-Dichloropropane CAS#: 594-20-7





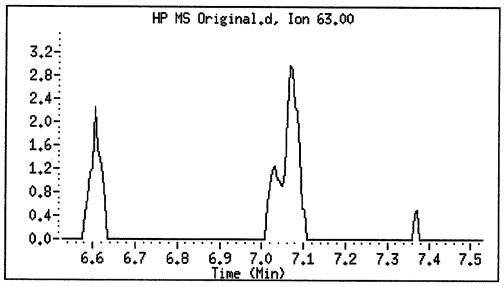
46 1,2-Dichloroethane CAS#: 107-06-2

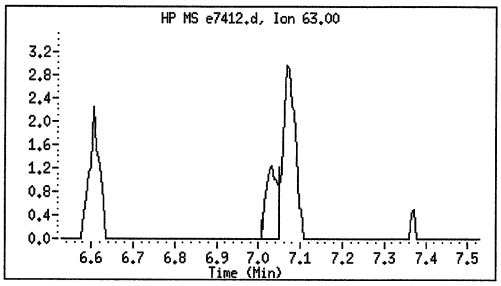




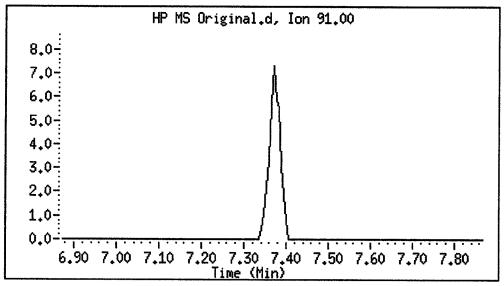
Original Final

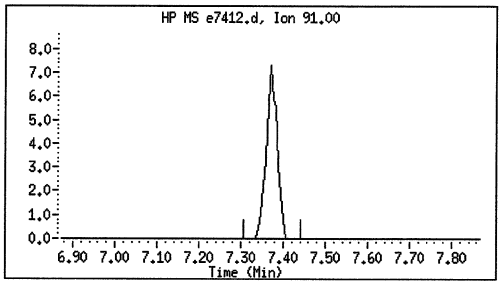
57 2-Chloroethyl vinyl ether CAS#: 110-75-8



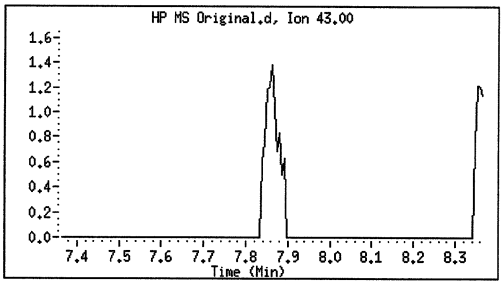


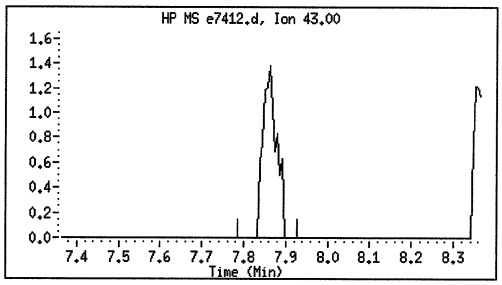
61 Toluene + CAS#: 108-88-3



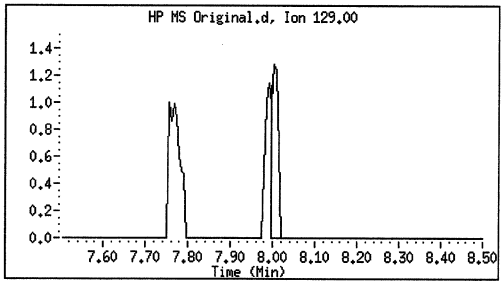


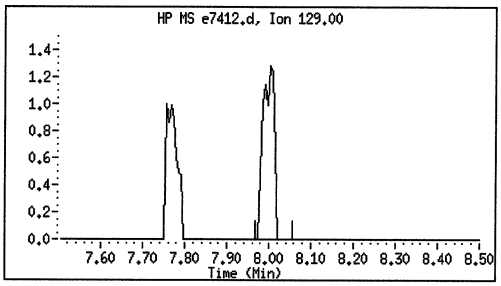
67 2-Hexanone CAS#: 591-78-6



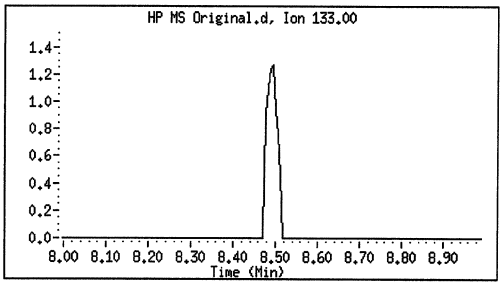


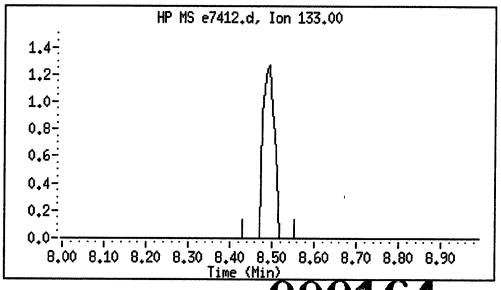
68 Dibromochloromethane CAS#: 124-48-1





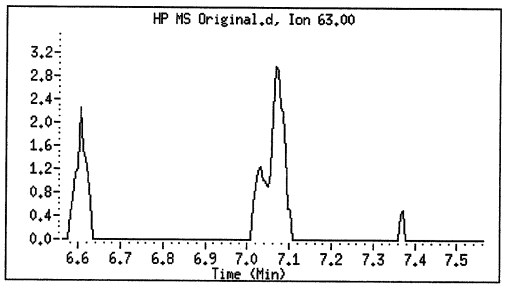
73 1,1,1,2-Tetrachloroethane CAS#: 630-20-6

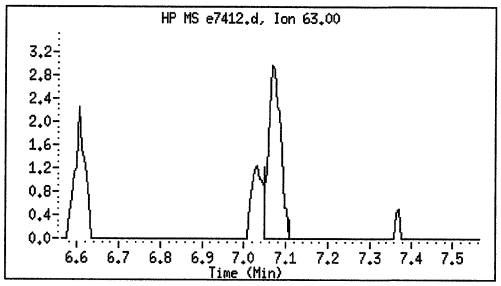




Original | Final

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





GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7411.d
Lab Smp Id: 1207 Client Smp ID: V5STD0.50
Inj Date : 19-FEB-2005 09:07
Operator : JCK Inst ID: msv5.i
Smp Info : 1210*V5STD0.50*5-25-4
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 09:27 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 1 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/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
15 Carbon Disulfide	76	3.633	3.633	(0.594)	2102	0.50000	0.540	
18 Methylene Chloride	49	3.978	3.978	(0.650)	3297	0.50000	1.49	
22 Acrylonitrile	53	4.288	4.288	(0.701)	1679	2.50000	2.50	
28 Vinyl Acetate	43	4.692	4.692	(0.767)	1413	0.50000	0.385	
$ 38 Dibromofluoromethane	111	5.598	5.598	(0.915)	161	50.0000	0.106	0(aM)
44 Benzene	78	5.890	5.890	(0.963)	3026	0.50000	0.514	
$ 45 1,2-Dichloroethane-d4	67	5.890	5.890	(0.963)	149	50.0000	0.179	(aM)
* 47 FLUOROBENZENE	96	6.118	6.118	(1.000)	289071	50.0000		
58 cis-1,3-Dichloropropene	75	7.153	7.153	(1.169)	1040	0.50000	0.393	(M)
$ 60 Toluene-d8	98	7.323	7.323	(0.870)	3518	50.0000	0.705	(a)
61 Toluene +	91	7.381	7.381	(0.877)	4124	0.50000	0.670	(M)
63 trans-1,3-Dichloropropene	75	7.580	7.580	(0.901)	747	0.50000	0.299	(M)
66 1,3-Dichloropropane	76	7.843	7.843	(0.932)	1218	0.50000	0.436	
* 70 CHLOROBENZENE-d5	82	8.417	8.417	(1.000)	126922	50.0000		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
71 Chlorobenzene ++	112	8.440	8.440	(1.003)	2360	0.50000	0.564	
72 Ethylbenzene +	106	8.481	8.481	(1.008)	842	0.50000	0.404	
74 p,m-Xylene	106	8.557	8.557	(1.017)	2892	1.00000	1.13	
75 o-Xylene	106	8.855	8.855	(1.052)	1324	0.50000	0.521	
76 Styrene	104	8.879	8.879	(1.055)	2257	0.50000	0.493	
78 Isopropylbenzene	105	9.095	9.095	(1.081)	3742	0.50000	0.600	
$ 80 Bromofluorobenzene	174	9.247	9.247	(1.099)	1072	50.0000	0.729	(a)
81 1,1,2,2-Tetrachloroethane++	83	9.341	9.341	(0.933)	1024	0.50000	0.531	(M)
82 Bromobenzene	77	9.370	9.370	(0.936)	3247	0.50000	0.843	(M)
85 n-Propylbenzene	91	9.376	9.376	(0.936)	5187	0.50000	0.655	
87 2-Chlorotoluene	91	9.475	9.475	(0.946)	3474	0.50000	0.682	(M)
88 1,3,5-Trimethylbenzene	105	9.487	9.487	(0.947)	3076	0.50000	0.614	(M)
89 4-Chlorotoluene	91	9.557	9.557	(0.954)	2945	0.50000	0.600	(M)
91 tert-butylbenzene	91	9.703	9.703	(0.969)	1694	0.50000	0.505	
92 1,2,4-Trimethylbenzene	105	9.744	9.744	(0.973)	2986	0.50000	0.573	
96 sec-Butylbenzene	105	9.844	9.844	(0.983)	3922	0.50000	0.572	(M)
97 p-Isopropyltoluene	119	9.931	9.931	(0.992)	3671	0.50000	0.664	(M)
98 1,3-Dichlorobenzene	146	9.967	9.967	(0.995)	1729	0.50000	0.582	
* 99 1,4-DICHLOROBENZENE-D4	152	10.014	10.014	(1.000)	100350	50.0000		
100 1,4-Dichlorobenzene	146	10.031	10.031	(1.002)	1763	0.50000	0.580	
M 101 TOTAL XYLENE	106				4216	1.50000	1.65	
102 n-Butylbenzene	91	10.195	10.195	(1.018)	3676	0.50000	0.674	
103 1,2-Dichlorobenzene	146	10.283	10.283	(1.027)	1528	0.50000	0.567	
106 1,2,4-Trichlorobenzene	180	11.342	11.342	(1.133)	435	0.50000	0.268	
108 Naphthalene	128	11.541	11.541	(1.153)	2144	0.50000	0.448	
M 139 1-3 Dichloropropene-Total	100				1787	0.50000	0.691	0

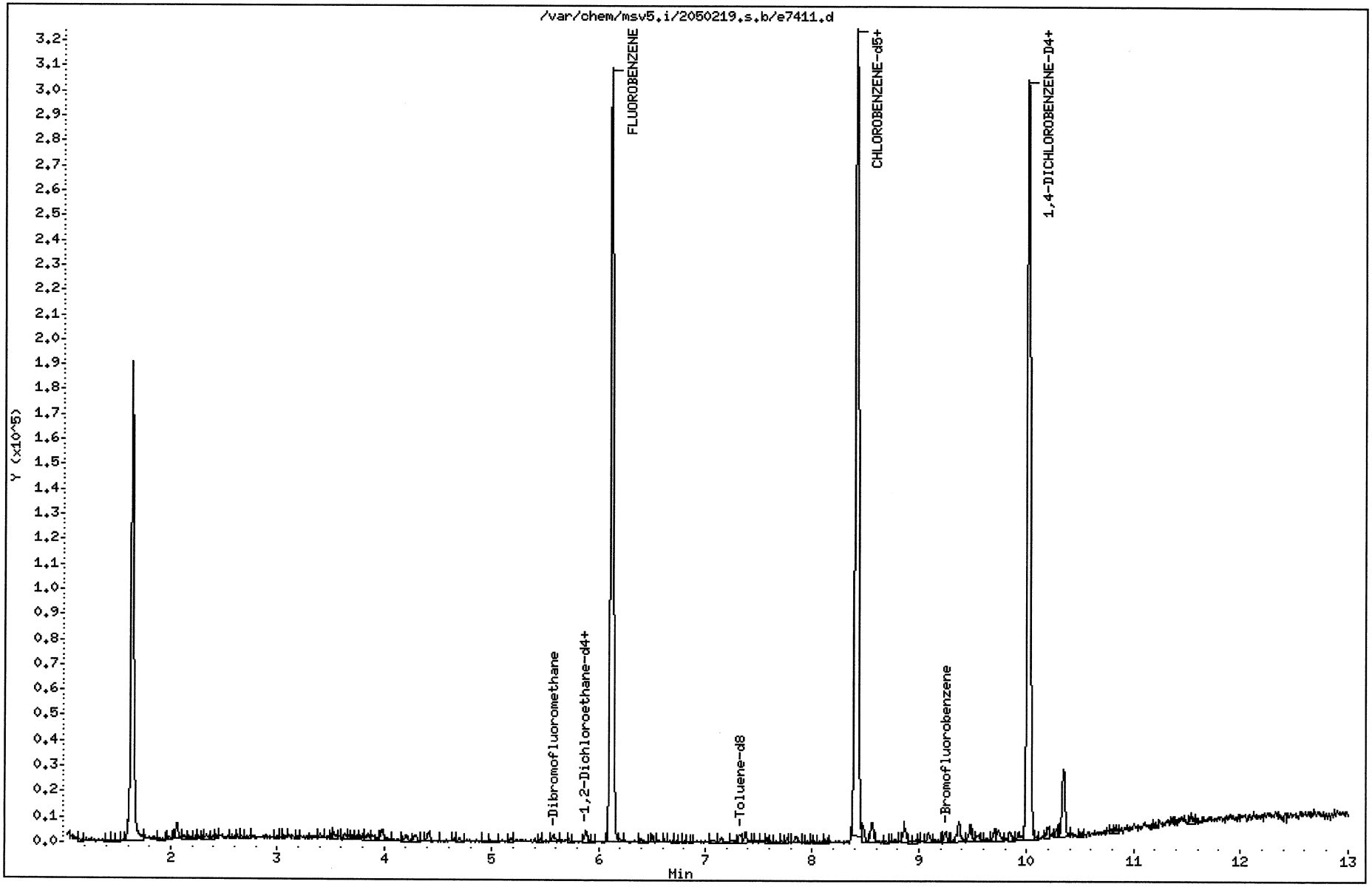
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

000168

Data File: /var/chem/msv5.i/2050219.s.b/e7411.d
Date : 19-FEB-2005 09:07
Client ID: V5STD0.50
Sample Info: 1210*V5STD0.50*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

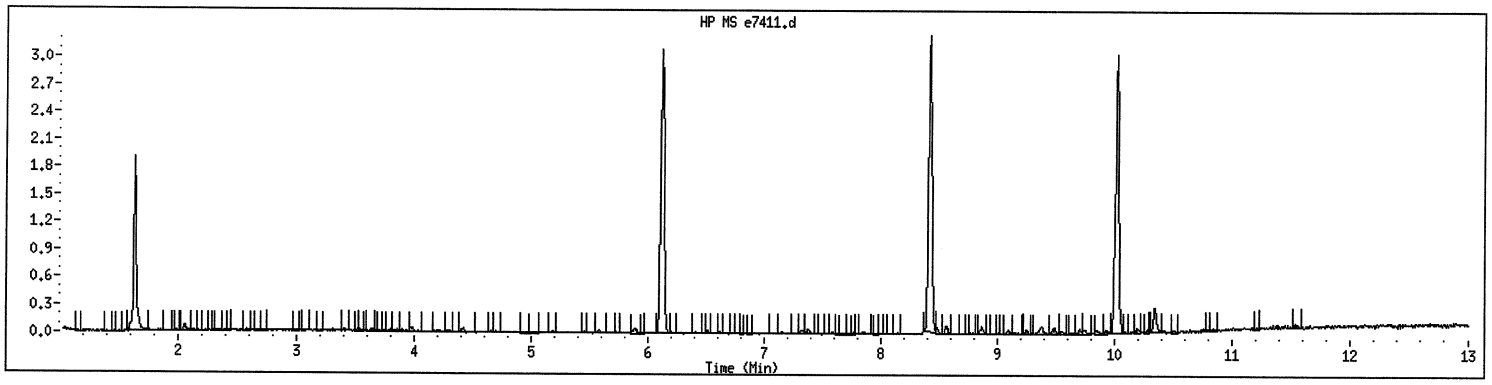
Instrument: msv5.i
Operator: JCK
Column diameter: 0.53



Data file : /var/chem/msv5.i/2050219.s.b/e7411.d
Report Date: 02/20/2005 09:27

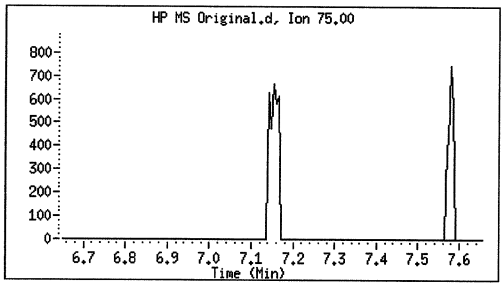
MANUAL INTEGRATION GRAPHIC REPORT

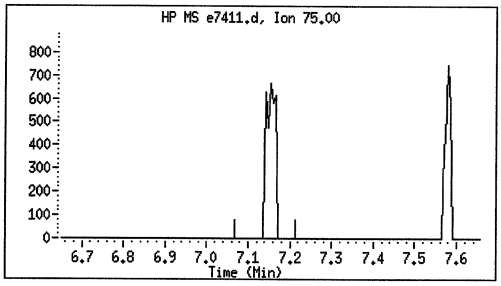
Lab ID	: 1207	SampleType	: CALIB_10
Injection Date	: 19-FEB-2005 09:07	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1210*V5STD0.50*5-25-4		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



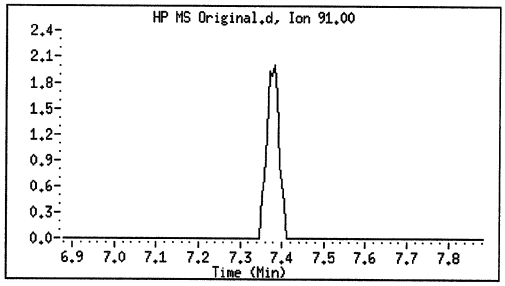
Original | Final

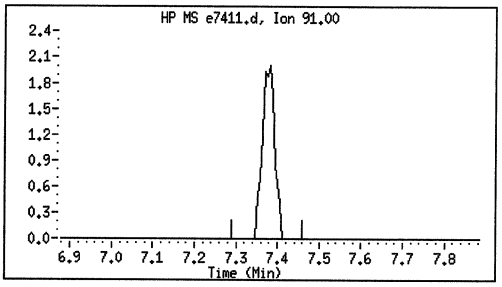
58 cis-1,3-Dichloropropene CAS#: 10061-01-5





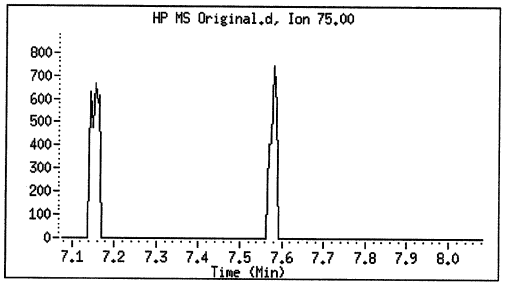
61 Toluene + CAS#: 108-88-3

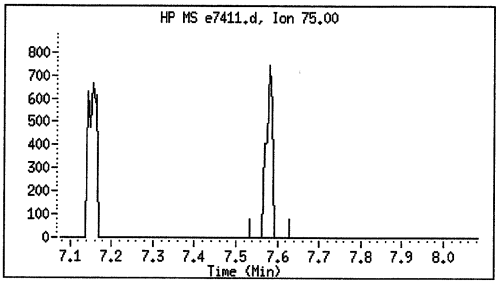




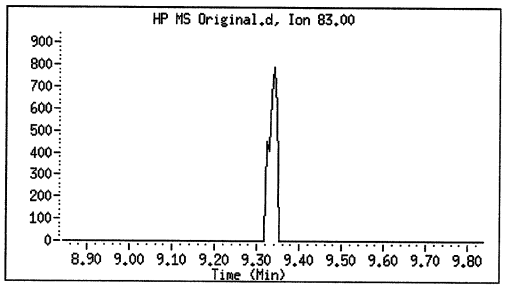
Original Final

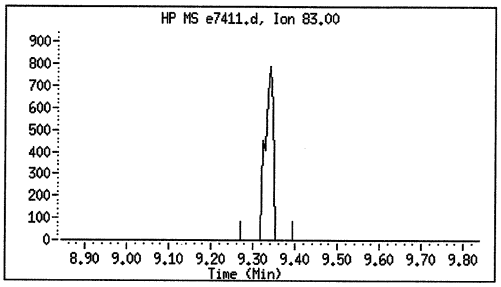
63 trans-1,3-Dichloropropene CAS#: 10061-02-6



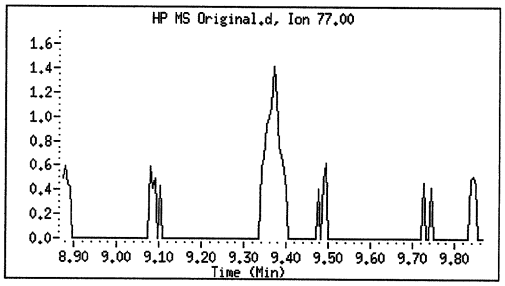


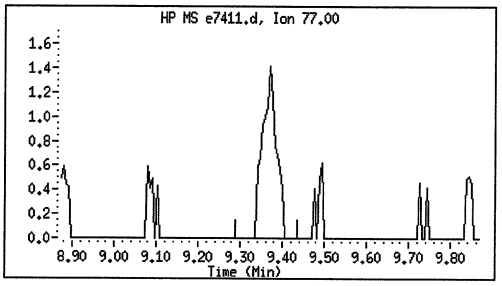
81 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5



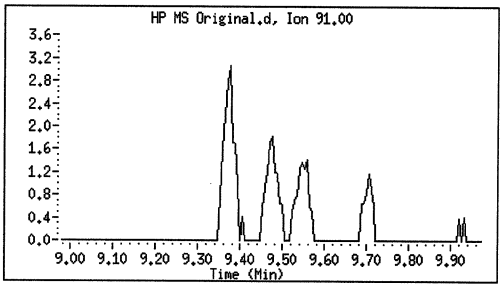


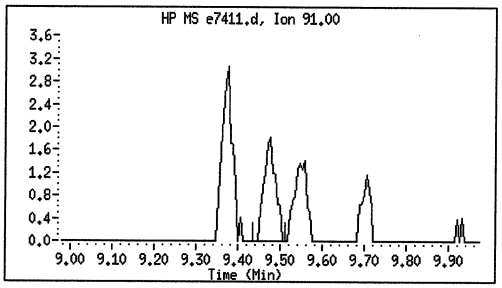
82 Bromobenzene CAS#: 108-86-1



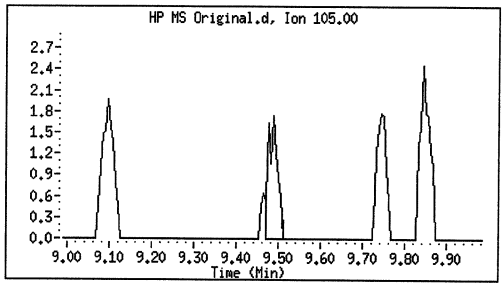


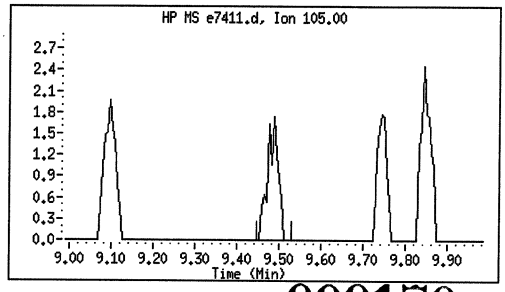
87 2-Chlorotoluene CAS#: 95-49-8





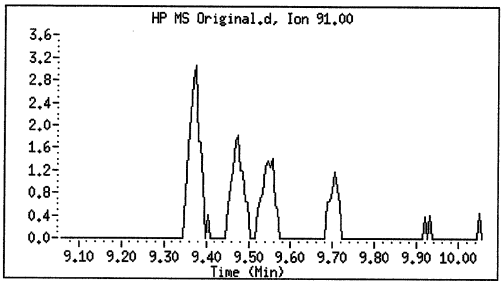
88 1,3,5-Trimethylbenzene CAS#: 108-67-8

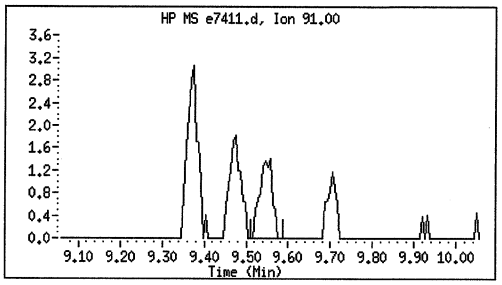




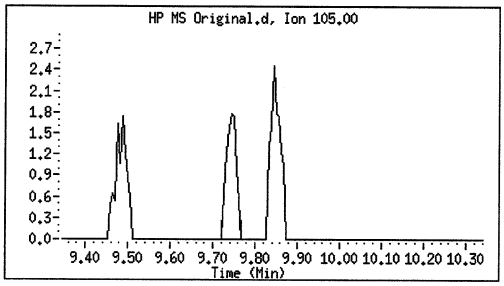
Original | Final

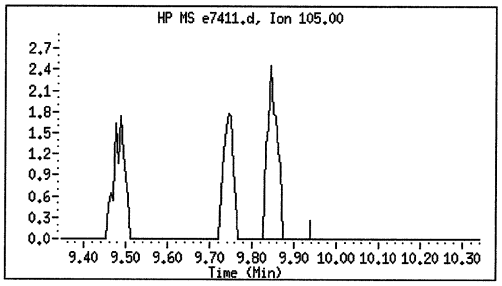
89 4-Chlorotoluene CAS#: 106-43-4



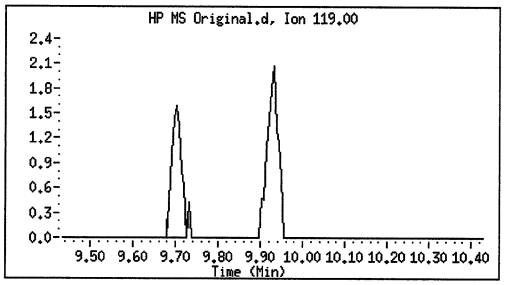


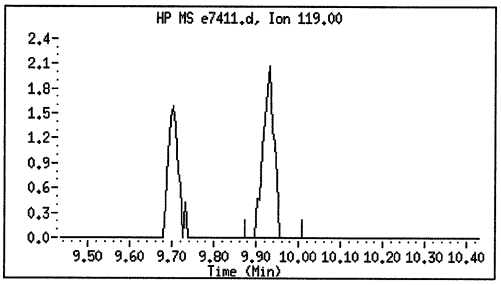
96 sec-Butylbenzene CAS#: 135-98-8



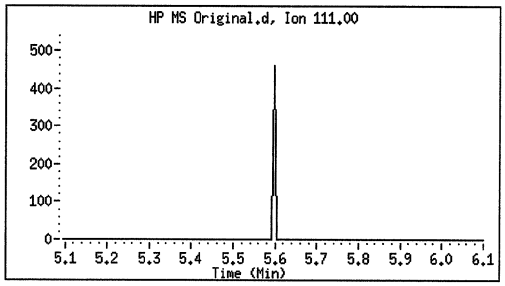


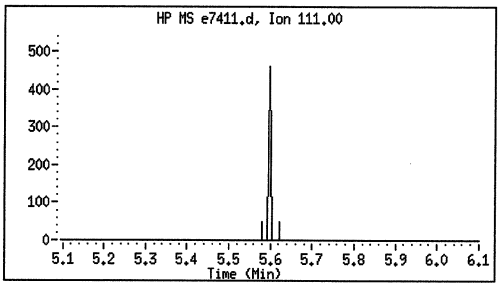
97 p-Isopropyltoluene CAS#: 99-87-6



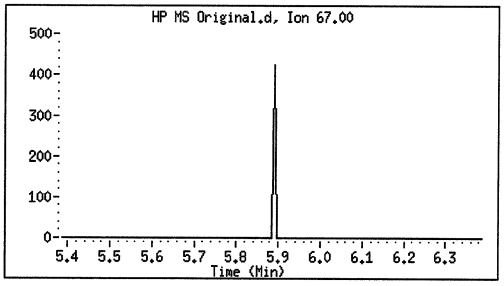


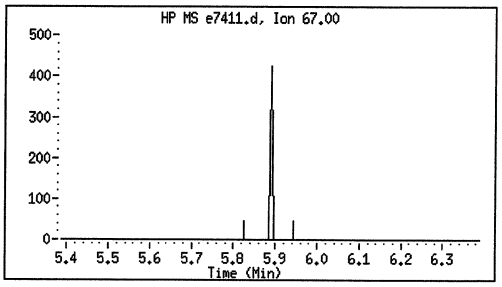
$ 38 Dibromofluoromethane CAS#: 1868-53-7





$ 45 1,2-Dichloroethane-d4 CAS#: 17060-07-0





Data file : /var/chem/msv5.i/2050219.s.b/e7419.d
Report Date: 03/01/2005 08:08

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Misc Info: MSV~5838~*1*JCK

Client SDG: 2050219.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: JCK
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluoromethane	50.0	43.7	87.45	80-120
2 Chloromethane ++	50.0	47.7	95.49	80-120
3 Vinyl Chloride +	50.0	52.4	104.82	80-120
5 Bromomethane	50.0	51.1	102.26	80-120
6 Chloroethane	50.0	50.7	101.48	80-120
7 Trichlorofluoromethane	50.0	53.1	106.13	80-120
10 Acrolein	250	203	81.33	80-120
11 1,1,2Trichlotrifluoroethane	50.0	56.8	113.70	80-120
12 1,1-Dichloroethene +	50.0	55.7	111.30	80-120
13 Acetone	50.0	35.9	71.80*	80-120
14 Methyl Iodide	50.0	53.2	106.39	80-120
15 Carbon Disulfide	50.0	52.6	105.21	80-120
18 Methylene Chloride	50.0	51.2	102.32	80-120
20 MTBE	50.0	54.5	108.99	80-120
21 trans-1,2-Dichloroethene	50.0	54.1	108.29	80-120
22 Acrylonitrile	250	273	109.33	80-120
27 1,1-Dichloroethane ++	50.0	54.8	109.63	80-120
28 Vinyl Acetate	50.0	42.7	85.49	80-120
30 2,2-Dichloropropane	50.0	55.8	111.57	80-120
31 cis-1,2-Dichloroethene	50.0	54.0	107.97	80-120
32 2-Butanone	50.0	51.8	103.52	80-120
35 Bromochloromethane	50.0	51.1	102.14	80-120
36 Chloroform +	50.0	55.0	110.07	80-120
39 1,1,1-Trichloroethane	50.0	55.9	111.71	80-120
40 Carbon Tetrachloride	50.0	55.9	111.88	80-120
41 1,1-Dichloropropene	50.0	55.3	110.66	80-120
44 Benzene	50.0	52.1	104.12	80-120
46 1,2-Dichloroethane	50.0	53.0	106.01	80-120
49 Trichloroethene	50.0	54.8	109.53	80-120
51 1,2-Dichloropropane +	50.0	52.5	105.01	80-120

Data file : /var/chem/msv5.i/2050219.s.b/e7419.d
Report Date: 03/01/2005 08:08

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
55	Dibromomethane	50.0	53.2	106.35	80-120
56	Bromodichloromethane	50.0	55.1	110.30	80-120
57	2-Chloroethyl vinyl ether	50.0	59.2	118.39	80-120
58	cis-1,3-Dichloropropene	50.0	52.8	105.54	80-120
59	4-methyl-2-pentanone	50.0	55.0	109.97	80-120
61	Toluene +	50.0	53.7	107.50	80-120
63	trans-1,3-Dichloropropene	50.0	54.6	109.29	80-120
64	1,1,2-Trichloroethane	50.0	54.1	108.23	80-120
65	Tetrachloroethene	50.0	54.9	109.84	80-120
66	1,3-Dichloropropane	50.0	53.6	107.14	80-120
67	2-Hexanone	50.0	58.0	116.00	80-120
68	Dibromochloromethane	50.0	56.4	112.81	80-120
69	1,2-Dibromoethane(EDB)	50.0	54.4	108.79	80-120
71	Chlorobenzene ++	50.0	52.0	104.00	80-120
72	Ethylbenzene +	50.0	54.2	108.37	80-120
73	1,1,1,2-Tetrachloroethane	50.0	54.8	109.62	80-120
74	p,m-Xylene	100	109	109.19	80-120
75	o-Xylene	50.0	53.7	107.49	80-120
76	Styrene	50.0	52.9	105.79	80-120
77	Bromoform ++	50.0	56.1	112.16	80-120
78	Isopropylbenzene	50.0	54.4	108.73	80-120
81	1,1,2,2-Tetrachloroethane++	50.0	57.9	115.80	80-120
82	Bromobenzene	50.0	55.3	110.66	80-120
84	trans-1,4-Dichloro-2-Butene	50.0	61.1	122.20*	80-120
85	n-Propylbenzene	50.0	56.8	113.61	80-120
86	1,2,3-Trichloropropane	50.0	57.4	114.74	80-120
87	2-Chlorotoluene	50.0	54.3	108.61	80-120
88	1,3,5-Trimethylbenzene	50.0	56.8	113.54	80-120
89	4-Chlorotoluene	50.0	54.9	109.81	80-120
91	tert-butylbenzene	50.0	55.7	111.43	80-120
92	1,2,4-Trimethylbenzene	50.0	55.7	111.31	80-120
96	sec-Butylbenzene	50.0	57.1	114.12	80-120
97	p-Isopropyltoluene	50.0	55.9	111.73	80-120
98	1,3-Dichlorobenzene	50.0	54.5	109.02	80-120
100	1,4-Dichlorobenzene	50.0	53.0	106.02	80-120
102	n-Butylbenzene	50.0	57.0	114.05	80-120
103	1,2-Dichlorobenzene	50.0	55.3	110.64	80-120
104	1,2-Dibromo-3-Chloropropane	50.0	59.9	119.87	80-120
106	1,2,4-Trichlorobenzene	50.0	56.7	113.38	80-120
107	Hexachlorobutadiene	50.0	56.5	112.90	80-120
108	Naphthalene	50.0	54.3	108.67	80-120
109	1,2,3-Trichlorobenzene	50.0	53.7	107.49	80-120

Data file : /var/chem/msv5.i/2050219.s.b/e7419.d
Report Date: 03/01/2005 08:08

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 38 Dibromofluoromethane	50.0	53.8	107.66	73-125
$ 45 1,2-Dichloroethane-d4	50.0	52.1	104.25	70-123
$ 60 Toluene-d8	50.0	55.7	111.45	78-127
$ 80 Bromofluorobenzene	50.0	52.7	105.44	75-120

GCAL, Inc.

Data file : /var/chem/msv5.i/2050219.s.b/e7419.d
Lab Smp Id: 1600 Client Smp ID: 8260ICV
Inj Date : 19-FEB-2005 13:37
Operator : JCK Inst ID: msv5.i
Smp Info : 1600*8260ICV
Misc Info : MSV~5838~*1*JCK
Comment :
Method : /var/chem/msv5.i/2050219.s.b/8260Bw5.m
Meth Date : 26-Feb-2005 12:24 rjo Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 9 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	1.797	1.797	(0.294)	66586	43.7272	43.7	
2 Chloromethane ++	50	1.996	1.996	(0.326)	105089	47.7439	47.7	
3 Vinyl Chloride +	62	2.096	2.096	(0.342)	92878	52.4105	52.4	
5 Bromomethane	94	2.441	2.424	(0.399)	69693	51.1310	51.1	
6 Chloroethane	64	2.552	2.547	(0.417)	46456	50.7393	50.7	
7 Trichlorofluoromethane	101	2.810	2.798	(0.459)	84244	53.0644	53.1	
10 Acrolein	56	3.365	3.354	(0.550)	30516	203.334	203	(A)
11 1,1,2Trichlotrifluoroethane	101	3.389	3.378	(0.553)	60635	56.8499	56.8	
12 1,1-Dichloroethene +	96	3.418	3.407	(0.558)	55854	55.6510	55.7	
13 Acetone	43	3.529	3.525	(0.576)	18192	35.8990	35.9	(R)
14 Methyl Iodide	142	3.600	3.595	(0.588)	90525	53.1945	53.2	
15 Carbon Disulfide	76	3.640	3.633	(0.594)	221692	52.6033	52.6	
17 Methyl Acetate	43	3.851	3.847	(0.629)	50537	53.9114	53.9	3808(H)
18 Methylene Chloride	49	3.986	3.978	(0.651)	122677	51.1612	51.2	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 MTBE	73	4.196	4.186	(0.685)	211895	54.4970	54.5	8682
	21 trans-1,2-Dichloroethene	61	4.214	4.210	(0.688)	117034	54.1431	54.1	
	22 Acrylonitrile	53	4.284	4.288	(0.700)	198817	273.329	273	(A)
	24 Hexane	57	4.419	4.409	(0.722)	134064	57.9880	58.0	0 (M)
	27 1,1-Dichloroethane ++	63	4.659	4.655	(0.761)	161659	54.8137	54.8	
	28 Vinyl Acetate	43	4.683	4.692	(0.765)	169744	42.7466	42.7	
	30 2,2-Dichloropropane	77	5.156	5.159	(0.842)	108262	55.7841	55.8	
	31 cis-1,2-Dichloroethene	61	5.186	5.182	(0.847)	141632	53.9870	54.0	
	32 2-Butanone	43	5.203	5.200	(0.850)	44437	51.7585	51.8	
	35 Bromochloromethane	128	5.396	5.399	(0.881)	45313	51.0706	51.1	
	36 Chloroform +	83	5.455	5.446	(0.891)	135254	55.0368	55.0	
	37 Cyclohexane	56	5.578	5.575	(0.911)	156754	56.9104	56.9	9109
$	38 Dibromofluoromethane	111	5.596	5.598	(0.914)	88756	53.8282	53.8	8350
	39 1,1,1-Trichloroethane	97	5.578	5.575	(0.911)	101806	55.8563	55.9	
	40 Carbon Tetrachloride	117	5.696	5.687	(0.930)	83073	55.9409	55.9	
	41 1,1-Dichloropropene	75	5.719	5.716	(0.934)	112770	55.3305	55.3	
M	42 Total 1,2-Dichloroethene	61				258666	108.130	108	
	44 Benzene	78	5.883	5.890	(0.961)	331764	52.0616	52.1	
$	45 1,2-Dichloroethane-d4	67	5.895	5.890	(0.963)	46925	52.1242	52.1	
	46 1,2-Dichloroethane	62	5.954	5.951	(0.972)	99539	53.0071	53.0	
*	47 FLUOROBENZENE	96	6.124	6.118	(1.000)	313015	50.0000		
	49 Trichloroethene	130	6.404	6.402	(1.046)	90106	54.7668	54.8	
	50 Methyl Cyclohexane	83	6.510	6.508	(1.063)	143361	57.9774	58.0	9026
	51 1,2-Dichloropropane +	63	6.610	6.608	(1.079)	104848	52.5068	52.5	
	55 Dibromomethane	93	6.709	6.707	(1.096)	62257	53.1747	53.2	
	56 Bromodichloromethane	83	6.815	6.813	(1.113)	100438	55.1476	55.1	
	57 2-Chloroethyl vinyl ether	63	7.031	7.024	(1.148)	89503	59.1936	59.2	
	58 cis-1,3-Dichloropropene	75	7.155	7.153	(1.168)	151385	52.7721	52.8	
	59 4-methyl-2-pentanone	43	7.248	7.241	(1.184)	120128	54.9830	55.0	
$	60 Toluene-d8	98	7.325	7.323	(0.870)	293937	55.7266	55.7	
	61 Toluene +	91	7.378	7.381	(0.876)	350144	53.7495	53.7	
	63 trans-1,3-Dichloropropene	75	7.577	7.580	(0.900)	144518	54.6436	54.6	
	64 1,1,2-Trichloroethane	97	7.717	7.717	(0.916)	80844	54.1141	54.1	
	65 Tetrachloroethene	164	7.770	7.770	(0.923)	64877	54.9186	54.9	
	66 1,3-Dichloropropane	76	7.852	7.843	(0.933)	158315	53.5704	53.6	
	67 2-Hexanone	43	7.858	7.858	(0.933)	79302	58.0019	58.0	
	68 Dibromochloromethane	129	7.999	7.999	(0.950)	92857	56.4033	56.4	
	69 1,2-Dibromoethane(EDB)	107	8.104	8.104	(0.962)	95367	54.3972	54.4	
*	70 CHLOROBENZENE-d5	82	8.421	8.417	(1.000)	134252	50.0000		
	71 Chlorobenzene ++	112	8.444	8.440	(1.003)	230167	51.9988	52.0	
	72 Ethylbenzene +	106	8.480	8.481	(1.007)	119476	54.1857	54.2	
	73 1,1,1,2-Tetrachloroethane	133	8.497	8.492	(1.009)	74698	54.8113	54.8	
	74 p,m-Xylene	106	8.562	8.557	(1.017)	296429	109.191	109	
	75 o-Xylene	106	8.861	8.855	(1.052)	144370	53.7447	53.7	
	76 Styrene	104	8.872	8.879	(1.054)	256233	52.8935	52.9	
	77 Bromoform ++	173	9.048	9.044	(1.075)	57068	56.0796	56.1	
	78 Isopropylbenzene	105	9.095	9.095	(1.080)	358911	54.3662	54.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.254	9.247	(1.099)	81956	52.7195	52.7	
81 1,1,2,2-Tetrachloroethane++	83	9.336	9.341	(0.932)	113821	57.9021	57.9	
82 Bromobenzene	77	9.365	9.370	(0.935)	217391	55.3299	55.3	
84 trans-1,4-Dichloro-2-Butene	53	9.377	9.373	(0.936)	30526	61.0984	61.1	
85 n-Propylbenzene	91	9.377	9.376	(0.936)	458929	56.8045	56.8	
86 1,2,3-Trichloropropane	75	9.383	9.385	(0.937)	145106	57.3723	57.4	
87 2-Chlorotoluene	91	9.477	9.475	(0.946)	282057	54.3058	54.3	
88 1,3,5-Trimethylbenzene	105	9.489	9.487	(0.947)	290038	56.7678	56.8	
89 4-Chlorotoluene	91	9.548	9.557	(0.953)	274800	54.9038	54.9	
91 tert-butylbenzene	91	9.706	9.703	(0.969)	190655	55.7163	55.7	
92 1,2,4-Trimethylbenzene	105	9.748	9.744	(0.973)	295463	55.6545	55.7	
96 sec-Butylbenzene	105	9.847	9.844	(0.983)	398553	57.0593	57.1	
97 p-Isopropyltoluene	119	9.935	9.931	(0.992)	314775	55.8654	55.9	
98 1,3-Dichlorobenzene	146	9.977	9.967	(0.996)	165056	54.5082	54.5	
* 99 1,4-DICHLOROBENZENE-D4	152	10.018	10.014	(1.000)	102311	50.0000		
100 1,4-Dichlorobenzene	146	10.036	10.031	(1.002)	164242	53.0095	53.0	
M 101 TOTAL XYLENE	106				440799	162.935	163	
102 n-Butylbenzene	91	10.194	10.195	(1.018)	317229	57.0274	57.0	
103 1,2-Dichlorobenzene	146	10.288	10.283	(1.027)	152083	55.3195	55.3	
104 1,2-Dibromo-3-Chloropropane	157	10.815	10.808	(1.080)	19907	59.9331	59.9	
106 1,2,4-Trichlorobenzene	180	11.348	11.342	(1.133)	93783	56.6919	56.7	
107 Hexachlorobutadiene	225	11.401	11.400	(1.138)	45810	56.4518	56.5	
108 Naphthalene	128	11.542	11.541	(1.152)	265390	54.3348	54.3	
109 1,2,3-Trichlorobenzene	180	11.707	11.700	(1.169)	84181	53.7471	53.7	
140 1-Bromo-2-chloroethane	63	7.078	7.071	(1.156)	342454	109.958	110	7294
M 139 1-3 Dichloropropene-Total	100				295903	107.416	107	0

QC Flag Legend

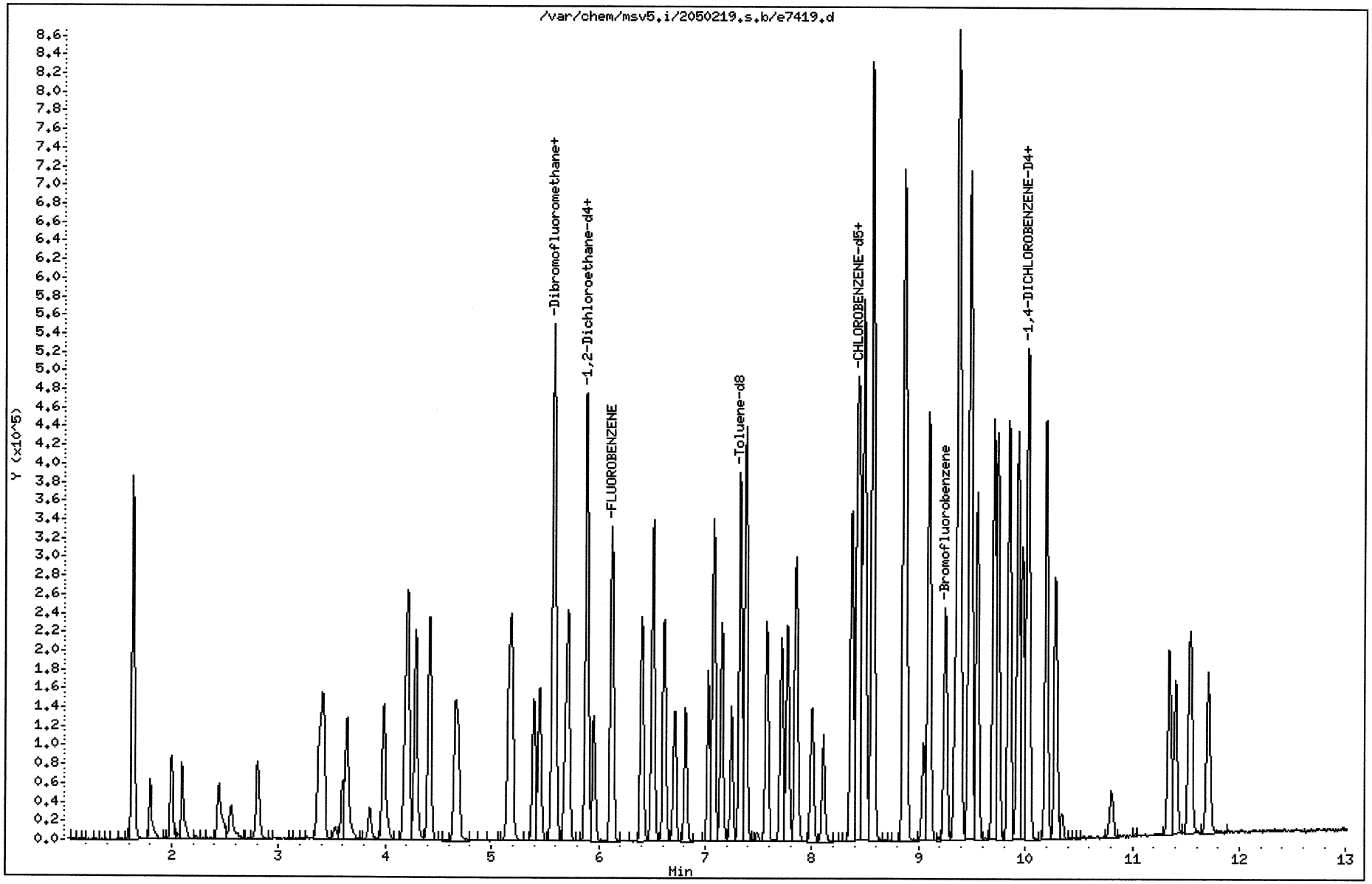
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050219.s.b/e7419.d
Date : 19-FEB-2005 13:37
Client ID: 8260ICV
Sample Info: 1600x8260ICV
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: JCK
Column diameter: 0.53

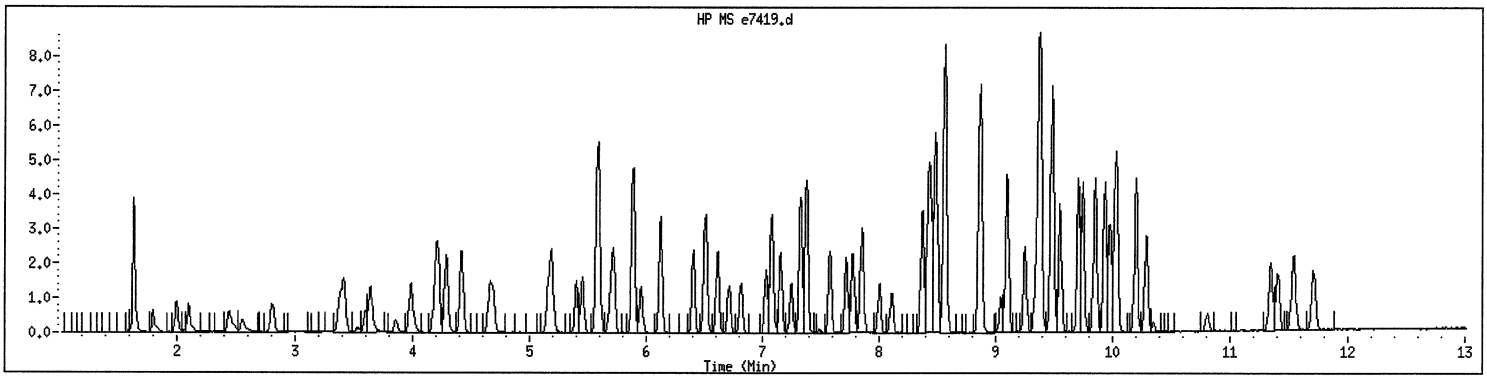
000178



Data file : /var/chem/msv5.i/2050219.s.b/e7419.d
Report Date: 02/26/2005 12:25

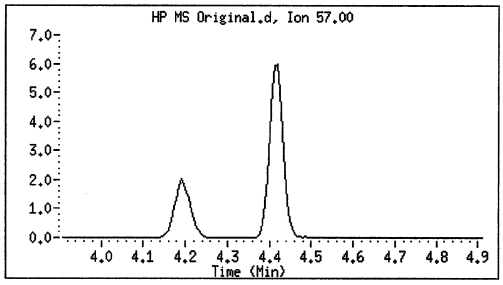
MANUAL INTEGRATION GRAPHIC REPORT

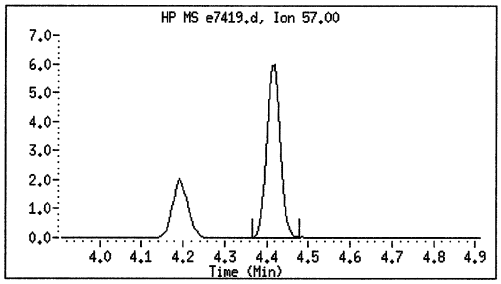
Lab ID	: 1600	SampleType	: LCS
Injection Date	: 19-FEB-2005 13:37	Instrument	: msv5.i
Operator	: JCK		
Sample Info	: 1600*8260ICV		
Misc Info	: MSV~5838~*1*JCK		
Method	: /var/chem/msv5.i/2050219.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original Final

24 Hexane CAS#: 110-54-3





7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date: 02/20/05 Time: 0843

Lab File ID: 2050220/E7441

Init. Calib. Date 1: 02/19/05 Time 1: 0907

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/19/05 Time 2: 1240

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

Analytical Batch: 287758

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
Acetone	8.495	0.052	0	-37.2	50	Q
Acrolein	250.0	226.0	0	-9.6	50	L
Acrylonitrile	0.116	0.136	0	16.6	50	A
Bromochloromethane	0.142	0.144	0	1.53	50	A
Bromodichloromethane	0.291	0.316	0	8.49	50	A
Bromoform	0.379	0.443	.1	16.9	50	A
Bromomethane	0.218	0.194	0	-10.8	50	A
Carbon disulfide	0.673	0.690	0	2.43	50	A
Carbon tetrachloride	0.237	0.257	0	8.36	50	A
Chloroethane	0.146	0.154	0	5.04	50	A
m,p-Xylene	1.011	1.167	0	15.5	50	A
Chloroform	0.393	0.432	0	10	20	A
Chloromethane	0.352	0.350	.1	-.46	50	A
Dibromochloromethane	0.613	0.688	0	12.1	50	A
Dibromomethane	0.187	0.197	0	5.4	50	A
Dichlorodifluoromethane	0.243	0.264	0	8.47	50	A
1,1-Dichloroethane	0.471	0.497	.1	5.49	50	A
1,2-Dichloroethane	0.300	0.328	0	9.45	50	A
cis-1,2-Dichloroethene	0.419	0.447	0	6.68	50	A
trans-1,2-Dichloroethene	0.345	0.371	0	7.52	50	A
Methylene chloride	0.383	0.379	0	-.94	50	A
1,2-Dichloropropane	0.319	0.339	0	6.33	20	A
cis-1,3-Dichloropropene	0.458	0.495	0	8.08	50	A
trans-1,3-Dichloropropene	0.985	1.119	0	13.6	50	A
Ethylbenzene	0.821	0.919	0	12	20	A
2-Hexanone	0.509	0.565	0	11	50	A
Isopropylbenzene (Cumene)	2.459	2.826	0	14.9	50	A
2-Butanone	0.137	0.134	0	-2.28	50	A
Methyl iodide	0.272	0.287	0	5.4	50	A
4-Methyl-2-pentanone	0.349	0.389	0	11.3	50	A
n-Propylbenzene	3.948	4.620	0	17	50	A
Styrene	1.804	2.047	0	13.4	50	A
Tetrachloroethene	0.440	0.472	0	7.37	50	A
1,1,1,2-Tetrachloroethane	0.508	0.569	0	12.1	50	A
1,1,2,2-Tetrachloroethane	0.961	1.087	.3	13.1	50	A
1,2,4-Trichlorobenzene	0.808	0.929	0	14.9	50	A
1,1,1-Trichloroethane	0.291	0.322	0	10.4	50	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date: 02/20/05 Time: 0843

Lab File ID: 2050220/E7441

Init. Calib. Date 1: 02/19/05 Time 1: 0907

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/19/05 Time 2: 1240

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

Analytical Batch: 287758

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
1,1,2-Trichloroethane	0.556	0.612	0	10	50	A
Trichlorofluoromethane	0.254	0.268	0	5.62	50	A
1,2,3-Trichloropropane	1.236	1.417	0	14.7	50	A
1,2,4-Trimethylbenzene	2.594	2.994	0	15.4	50	A
1,3,5-Trimethylbenzene	2.497	2.927	0	17.2	50	A
Vinyl chloride	0.283	0.291	0	2.8	20	A
o-Xylene	1.000	1.117	0	11.7	50	A
1,2-Dibromo-3-chloropropane	0.162	0.189	0	16.2	50	A
1,2-Dibromoethane	0.653	0.710	0	8.68	50	A
Vinyl acetate	0.634	0.794	0	25.2	50	A
tert-Butyl methyl ether (MTBE)	0.621	0.653	0	5.2	50	A
1,2-Dichloroethene	0.379	0.409	0	7.91	50	A
4-Isopropyltoluene	2.754	3.146	0	14.2	50	A
Xylene (total)	1.017	1.151	0	13.2	50	A
Methylcyclohexane	0.395	0.435	0	10.1	50	A
n-Hexane	0.369	0.398	0	7.91	50	A
trans-1,4-Dichloro-2-butene	0.244	0.297	0	21.5	50	A
Cyclohexane	0.440	0.475	0	8	50	A
2,2-Dichloropropane	0.310	0.338	0	8.98	50	A
Methyl Acetate	0.150	0.151	0	.85	50	A
Trichlorotrifluoroethane	0.170	0.186	0	8.89	50	A
1,1-Dichloropropene	0.326	0.354	0	8.64	50	A
2-Chloroethylvinyl ether	0.242	0.265	0	9.88	50	A
1,3-Dichloropropane	1.101	1.171	0	6.4	50	A
Bromobenzene	1.920	2.124	0	10.6	50	A
2-Chlorotoluene	2.538	2.890	0	13.8	50	A
4-Chlorotoluene	2.446	2.798	0	14.4	50	A
tert-Butylbenzene	1.672	1.945	0	16.3	50	A
sec-Butylbenzene	3.414	4.007	0	17.4	50	A
1,3-Dichlorobenzene	1.480	1.701	0	15	50	A
1,4-Dichlorobenzene	1.514	1.672	0	10.4	50	A
n-Butylbenzene	2.719	3.192	0	17.4	50	A
1,2-Dichlorobenzene	1.344	1.500	0	11.6	50	A
Hexachlorobutadiene	0.397	0.459	0	15.7	50	A
Naphthalene	2.387	2.534	0	6.18	50	A
1,2,3-Trichlorobenzene	0.765	0.836	0	9.27	50	A
1-Bromo-2-chloroethane	0.497	0.516	0	3.69	50	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Instrument ID: MSV5

Calibration Date: 02/20/05 Time: 0843

Lab File ID: 2050220/E7441

Init. Calib. Date 1: 02/19/05 Time 1: 0907

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/19/05 Time 2: 1240

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

Analytical Batch: 287758

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
1,3-Dichloropropylene	0.437	0.484		10.7		A
1,1-Dichloroethene	0.160	0.172	0	7.08	20	A
Benzene	1.018	1.075	0	5.59	50	A
Trichloroethene	0.263	0.283	0	7.63	50	A
Toluene	2.426	2.665	0	9.86	20	A
Chlorobenzene	1.649	1.794	.3	8.83	50	A
4-Bromofluorobenzene	0.579	0.633	0	9.38	50	A
Dibromofluoromethane	0.263	0.276	0	4.8	50	A
Toluene-d8	1.964	2.158	0	9.83	50	A
1,2-Dichloroethane-d4	0.144	0.145	0	.84	50	A

GCAL, Inc.

Data file : /var/chem/msv5.i/2050220.s.b/e7441.d
Lab Smp Id: 1400 Client Smp ID: V5STD050
Inj Date : 20-FEB-2005 08:43
Operator : RFS Inst ID: msv5.i
Smp Info : 1400*V5STD050*5-25-4
Misc Info : MSV~5840~*1*RFS
Comment :
Method : /var/chem/msv5.i/2050220.s.b/8260Bw5.m
Meth Date : 20-Feb-2005 09:28 rfs Quant Type: ISTD
Cal Date : 19-FEB-2005 09:07 Cal File: e7411.d
Als bottle: 8 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	1.803	1.803	(0.294)	74696	50.0000	54.2	
2 Chloromethane ++	50	1.996	1.996	(0.326)	99085	50.0000	49.8	
3 Vinyl Chloride +	62	2.102	2.102	(0.343)	82381	50.0000	51.4	
5 Bromomethane	94	2.447	2.447	(0.399)	54935	50.0000	44.6	
6 Chloroethane	64	2.564	2.564	(0.418)	43493	50.0000	52.5	
7 Trichlorofluoromethane	101	2.815	2.815	(0.459)	75832	50.0000	52.8	
10 Acrolein	56	3.371	3.371	(0.550)	30959	250.000	226	(A)
11 1,1,2Trichlotrifluoroethane	101	3.395	3.395	(0.554)	52522	50.0000	54.4	
12 1,1-Dichloroethene +	96	3.424	3.424	(0.559)	48603	50.0000	53.5	
13 Acetone	43	3.535	3.535	(0.577)	14593	50.0000	31.4	
14 Methyl Iodide	142	3.600	3.600	(0.587)	81114	50.0000	52.7	
15 Carbon Disulfide	76	3.640	3.640	(0.594)	195210	50.0000	51.2	
17 Methyl Acetate	43	3.863	3.863	(0.630)	42751	50.0000	50.4	3765(H)
18 Methylene Chloride	49	3.992	3.992	(0.651)	107414	50.0000	49.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 MTBE	73	4.202	4.202	(0.686)	184983	50.0000	52.6	8586
	21 trans-1,2-Dichloroethene	61	4.220	4.220	(0.688)	105105	50.0000	53.8	
	22 Acrylonitrile	53	4.290	4.290	(0.700)	191853	250.000	292	(A)
	24 Hexane	57	4.419	4.419	(0.721)	112816	50.0000	54.0	0 (M)
	27 1,1-Dichloroethane ++	63	4.665	4.665	(0.761)	140695	50.0000	52.7	
	28 Vinyl Acetate	43	4.694	4.694	(0.766)	224837	50.0000	62.6	
	30 2,2-Dichloropropane	77	5.168	5.168	(0.843)	95646	50.0000	54.5	
	31 cis-1,2-Dichloroethene	61	5.192	5.192	(0.847)	126563	50.0000	53.3	
	32 2-Butanone	43	5.209	5.209	(0.850)	37940	50.0000	48.9	
	35 Bromochloromethane	128	5.408	5.408	(0.882)	40739	50.0000	50.8	
	36 Chloroform +	83	5.455	5.455	(0.890)	122261	50.0000	55.0	
	37 Cyclohexane	56	5.584	5.584	(0.911)	134524	50.0000	54.0	9112
$	38 Dibromofluoromethane	111	5.596	5.596	(0.913)	78149	50.0000	52.4	8944
	39 1,1,1-Trichloroethane	97	5.584	5.584	(0.911)	91024	50.0000	55.2	
	40 Carbon Tetrachloride	117	5.701	5.701	(0.930)	72770	50.0000	54.2	
	41 1,1-Dichloropropene	75	5.725	5.725	(0.934)	100136	50.0000	54.3	
M	42 Total 1,2-Dichloroethene	61				231668	100.000	107	
	44 Benzene	78	5.889	5.889	(0.961)	304294	50.0000	52.8	
$	45 1,2-Dichloroethane-d4	67	5.895	5.895	(0.962)	41054	50.0000	50.4	
	46 1,2-Dichloroethane	62	5.959	5.959	(0.972)	92949	50.0000	54.7	
*	47 FLUOROBENZENE	96	6.129	6.129	(1.000)	283106	50.0000		
	49 Trichloroethene	130	6.410	6.410	(1.046)	80077	50.0000	53.8	
	50 Methyl Cyclohexane	83	6.516	6.516	(1.063)	123104	50.0000	55.0	9079
	51 1,2-Dichloropropane +	63	6.615	6.615	(1.079)	96015	50.0000	53.2	
	55 Dibromomethane	93	6.715	6.715	(1.096)	55805	50.0000	52.7	
	56 Bromodichloromethane	83	6.820	6.820	(1.113)	89358	50.0000	54.2	
	57 2-Chloroethyl vinyl ether	63	7.037	7.037	(1.148)	75132	50.0000	54.9	
	58 cis-1,3-Dichloropropene	75	7.160	7.160	(1.168)	140207	50.0000	54.0	
	59 4-methyl-2-pentanone	43	7.254	7.254	(1.184)	110000	50.0000	55.7	
$	60 Toluene-d8	98	7.330	7.330	(0.870)	258181	50.0000	54.9	
	61 Toluene +	91	7.383	7.383	(0.876)	318947	50.0000	54.9	
	63 trans-1,3-Dichloropropene	75	7.582	7.582	(0.900)	133942	50.0000	56.8	
	64 1,1,2-Trichloroethane	97	7.723	7.723	(0.917)	73242	50.0000	55.0	
	65 Tetrachloroethene	164	7.782	7.782	(0.924)	56527	50.0000	53.7	
	66 1,3-Dichloropropane	76	7.852	7.852	(0.932)	140138	50.0000	53.2	
	67 2-Hexanone	43	7.864	7.864	(0.933)	67654	50.0000	55.5	
	68 Dibromochloromethane	129	8.010	8.010	(0.951)	82278	50.0000	56.1	
	69 1,2-Dibromoethane(EDB)	107	8.110	8.110	(0.962)	84911	50.0000	54.3	
*	70 CHLOROBENZENE-d5	82	8.426	8.426	(1.000)	119661	50.0000		
	71 Chlorobenzene ++	112	8.449	8.449	(1.003)	214677	50.0000	54.4	
	72 Ethylbenzene +	106	8.491	8.491	(1.008)	110025	50.0000	56.0	
	73 1,1,1,2-Tetrachloroethane	133	8.502	8.502	(1.009)	68069	50.0000	56.0	
	74 p,m-Xylene	106	8.567	8.567	(1.017)	279387	100.000	115	
	75 o-Xylene	106	8.866	8.866	(1.052)	133705	50.0000	55.8	
	76 Styrene	104	8.878	8.878	(1.054)	244898	50.0000	56.7	
	77 Bromoform ++	173	9.053	9.053	(1.074)	53003	50.0000	58.4	
	78 Isopropylbenzene	105	9.100	9.100	(1.080)	338130	50.0000	57.5	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.259	9.259	(1.099)	75780	50.0000	54.7	
81 1,1,2,2-Tetrachloroethane++	83	9.347	9.347	(0.932)	103223	50.0000	56.6	
82 Bromobenzene	77	9.370	9.370	(0.935)	201734	50.0000	55.3	
84 trans-1,4-Dichloro-2-Butene	53	9.382	9.382	(0.936)	28185	50.0000	60.8	
85 n-Propylbenzene	91	9.382	9.382	(0.936)	438769	50.0000	58.5	
86 1,2,3-Trichloropropane	75	9.388	9.388	(0.937)	134623	50.0000	57.3	
87 2-Chlorotoluene	91	9.482	9.482	(0.946)	274453	50.0000	56.9	
88 1,3,5-Trimethylbenzene	105	9.494	9.494	(0.947)	278014	50.0000	58.6	
89 4-Chlorotoluene	91	9.553	9.553	(0.953)	265727	50.0000	57.2	
91 tert-butylbenzene	91	9.711	9.711	(0.969)	184756	50.0000	58.2	
92 1,2,4-Trimethylbenzene	105	9.752	9.752	(0.973)	284380	50.0000	57.7	
96 sec-Butylbenzene	105	9.858	9.858	(0.984)	380606	50.0000	58.7	
97 p-Isopropyltoluene	119	9.935	9.935	(0.991)	298805	50.0000	57.1	
98 1,3-Dichlorobenzene	146	9.982	9.982	(0.996)	161594	50.0000	57.5	
* 99 1,4-DICHLOROBENZENE-D4	152	10.023	10.023	(1.000)	94978	50.0000		
100 1,4-Dichlorobenzene	146	10.041	10.041	(1.002)	158800	50.0000	55.2	
M 101 TOTAL XYLENE	106				413092	150.000	171	
102 n-Butylbenzene	91	10.205	10.205	(1.018)	303187	50.0000	58.7	
103 1,2-Dichlorobenzene	146	10.293	10.293	(1.027)	142470	50.0000	55.8	
104 1,2-Dibromo-3-Chloropropane	157	10.814	10.814	(1.079)	17910	50.0000	58.1	
106 1,2,4-Trichlorobenzene	180	11.347	11.347	(1.132)	88213	50.0000	57.4	
107 Hexachlorobutadiene	225	11.412	11.412	(1.139)	43595	50.0000	57.9	
108 Naphthalene	128	11.547	11.547	(1.152)	240716	50.0000	53.1	
109 1,2,3-Trichlorobenzene	180	11.717	11.717	(1.169)	79439	50.0000	54.6	
140 1-Bromo-2-chloroethane	63	7.084	7.084	(1.156)	146036	50.0000	51.8	7449
M 139 1-3 Dichloropropene-Total	100				274149	100.000	111	0

QC Flag Legend

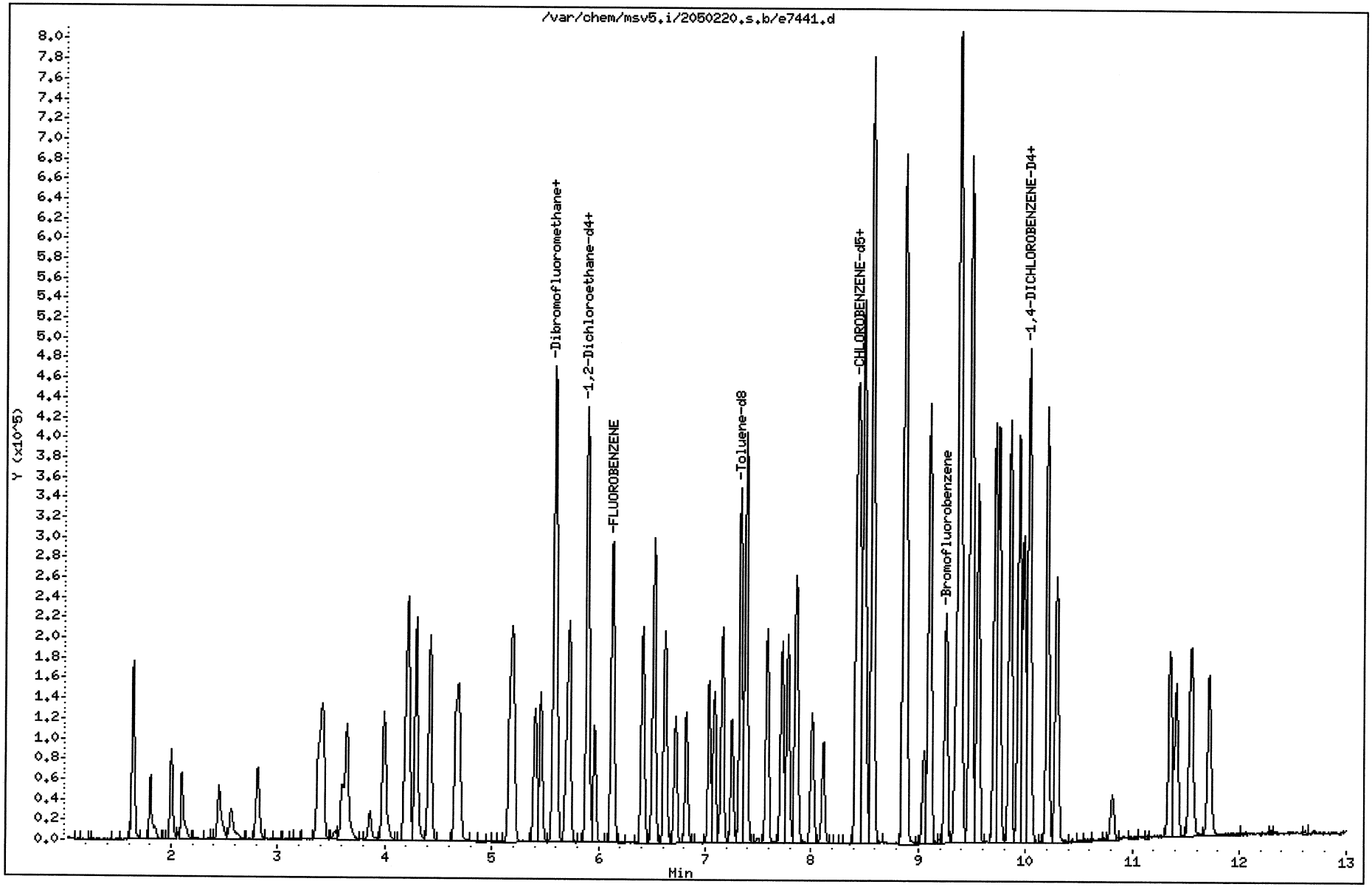
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv5.i/2050220.s.b/e7441.d
Date : 20-FEB-2005 08:43
Client ID: V5STD050
Sample Info: 1400*V5STD050*5-25-4
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv5.i

Operator: RFS
Column diameter: 0.53

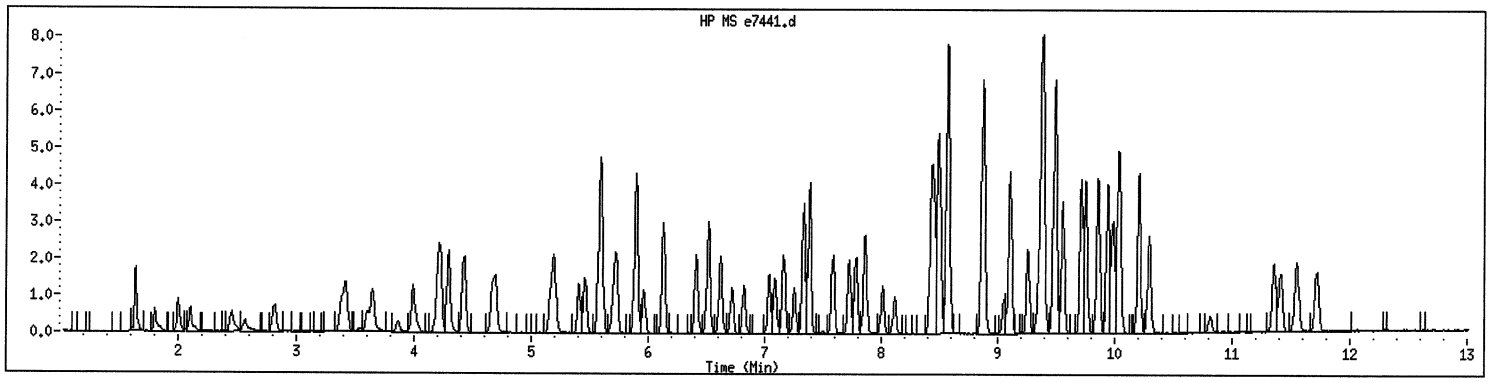
000186



Data file : /var/chem/msv5.i/2050220.s.b/e7441.d
Report Date: 02/20/2005 09:28

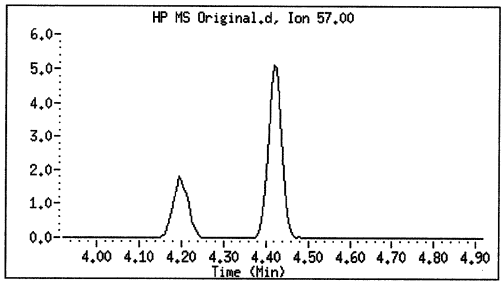
MANUAL INTEGRATION GRAPHIC REPORT

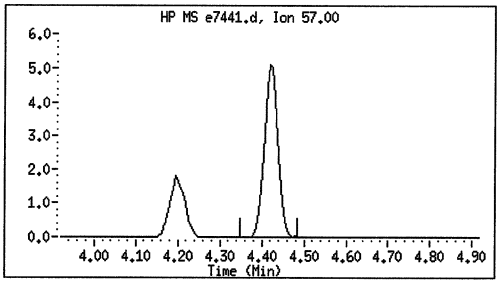
Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 20-FEB-2005 08:43	Instrument	: msv5.i
Operator	: RFS		
Sample Info	: 1400*V5STD050*5-25-4		
Misc Info	: MSV~5840~*1*RFS		
Method	: /var/chem/msv5.i/2050220.s.b/8260Bw5.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260b



Original | Final

24 Hexane CAS#: 110-54-3





8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID (Standard): 2050219P/U0256

Date Analyzed: 02/19/05

Instrument ID: MSV0

Time: 1246

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

Heated Purge: (Y/N) Y

Analytical Batch: 287754

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	95965	8.42	85560	9.992	228404	6.199

EPA Sample		#		#		#		#		#		#
1. LCS224393	90606		8.42		89127		9.99		215918		6.2	
2. LCSD224394	93918		8.42		91412		9.99		223801		6.2	
3. MB224392	92107		8.42		75283		9.99		225380		6.2	
4. 05283SCS050217	160897		8.42		109432		9.99		428467		6.2	

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021805

Lab File ID (Standard): 2050220/E7441

Date Analyzed: 02/20/05

Instrument ID: MSV5

Time: 0843

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

Heated Purge: (Y/N) N

Analytical Batch: 287758

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	119661	8.426	94978	10.02	283106	6.129

EPA Sample		#		#		#		#		#		#
1. LCS224409	120437		8.43		93250		10.02		273338		6.13	
2. MB224410	124603		8.42		98164		10.03		296469		6.12	
3. 05283EB1W050217	116378		8.43		87961		10.03		273094		6.14	
4. 05283EB2W050217	120463		8.43		92295		10.04		288014		6.14	

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

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 14-FEB-2005
Instrument: msv0.i
Analyst(s): KCB

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-1
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		u0139.d	0.00	14-FEB-2005 11:47	1.000	2
BLANK		u0140.d	5.00	14-FEB-2005 12:08	1.000	2
1206		u0141.d	5.00	14-FEB-2005 12:29	1.000	3
1201		u0142.d	5.00	14-FEB-2005 12:50	1.000	4
1202		u0143.d	5.00	14-FEB-2005 13:11	1.000	5
1203		u0144.d	5.00	14-FEB-2005 13:33	1.000	6
1204		u0145.d	5.00	14-FEB-2005 13:54	1.000	7
1205		u0146.d	5.00	14-FEB-2005 14:15	1.000	8
BLANK		u0147.d	5.00	14-FEB-2005 14:36	1.000	9
1600		u0148.d	5.00	14-FEB-2005 16:03	1.000	10
LCS		u0149.d	5.00	14-FEB-2005 16:38	1.000	11

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 19-FEB-2005
Instrument: msv0.i
Analyst(s): KCB

Standard	Conc ppm	
Int. Standard	50	5-23-6
Surrogate	50	5-23-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-1
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
BLANK		u0253.d	0.00	19-FEB-2005 11:18	1.000	2
1000		u0254.d	0.00	19-FEB-2005 11:39	1.000	2
1400		u0255.d	5.00	19-FEB-2005 12:08	1.000	3
1400		u0256.d	5.00	19-FEB-2005 12:46	1.000	4
1400		u0257.d	5.00	19-FEB-2005 13:08	1.000	5
224393		u0258.d	5.00	19-FEB-2005 13:50	1.000	6
224394		u0259.d	5.00	19-FEB-2005 14:12	1.000	7
224392		u0260.d	5.00	19-FEB-2005 14:33	1.000	8
BLANK		u0261.d	5.00	19-FEB-2005 14:55	1.000	9
20502102001		u0262.d	5.00	19-FEB-2005 15:16	10.000	10
20502180501		u0263.d	5.13	19-FEB-2005 15:38	1.000	11
20502170601		u0264.d	5.00	19-FEB-2005 15:59	10.000	12
20502102001		u0265.d	5.00	19-FEB-2005 16:20	2.000	13
BLANK		u0266.d	5.00	19-FEB-2005 16:42	1.000	14
BLANK		u0267.d	5.00	19-FEB-2005 17:04	1.000	15
20502180501		u0268.d	5.13	19-FEB-2005 17:25	1.000	16
20501270628		u0269.d	5.00	19-FEB-2005 17:46	2.000	17
20502102001		u0270.d	4.95	19-FEB-2005 18:08	1.000	18
BLANK		u0271.d	5.00	19-FEB-2005 18:29	1.000	19
BLANK		u0272.d	5.00	19-FEB-2005 18:50	1.000	20
BLANK		u0273.d	5.00	19-FEB-2005 19:11	1.000	21

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 19-FEB-2005
Instrument: msv5.i
Analyst(s): JCK

Standard	Conc ppm	
Int. Standard	50	5-23-6
Surrogate	50	5-23-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-1
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		e7410.d	0.00	19-FEB-2005 08:22	1.000	2
1210		e7411.d	5.00	19-FEB-2005 09:07	1.000	1
1206		e7412.d	5.00	19-FEB-2005 09:31	1.000	2
1201		e7413.d	5.00	19-FEB-2005 09:55	1.000	3
1202		e7414.d	5.00	19-FEB-2005 10:19	1.000	4
1203		e7415.d	5.00	19-FEB-2005 11:47	1.000	5
1204		e7416.d	5.00	19-FEB-2005 12:17	1.000	6
1205		e7417.d	5.00	19-FEB-2005 12:40	1.000	7
BLANK		e7418.d	5.00	19-FEB-2005 13:04	1.000	8
1600		e7419.d	5.00	19-FEB-2005 13:37	1.000	9
224391		e7420.d	5.00	19-FEB-2005 14:13	1.000	1
224390		e7421.d	5.00	19-FEB-2005 14:41	1.000	2
20502170401	POST	e7422.d	5.00	19-FEB-2005 15:07	10.000	3
20502170402	POST	e7423.d	5.00	19-FEB-2005 15:31	1.000	4
20502170403	POST	e7424.d	5.00	19-FEB-2005 15:55	1.000	5
20502170405	POST	e7425ms.d	5.00	19-FEB-2005 16:19	10.000	6
20502170406	POST	e7426msd.d	5.00	19-FEB-2005 16:42	10.000	7
BLANK		e7427.d	5.00	19-FEB-2005 17:12	1.000	8
20502170404	POST	e7428.d	5.00	19-FEB-2005 17:36	1.000	9
20502170407	POST	e7429.d	5.00	19-FEB-2005 18:00	1.000	10
20502170408	POST	e7430.d	5.00	19-FEB-2005 18:24	1.000	11
20502170409	POST	e7431.d	5.00	19-FEB-2005 18:48	1.000	12
20502180101	POST	e7432.d	5.00	19-FEB-2005 19:13	1.000	13
20502180102	POST	e7433.d	5.00	19-FEB-2005 19:37	1.000	14
20502180103	POST	e7434.d	5.00	19-FEB-2005 20:01	1.000	15
20502180104	OUT OF TUNE RR 1X	e7435.d	5.00	19-FEB-2005 20:25	1.000	16
20502180105	RR 1X	e7436.d	5.00	19-FEB-2005 20:50	1.000	1
BLANK		e7437.d	5.00	19-FEB-2005 21:14	1.000	2
BLANK		e7438.d	5.00	19-FEB-2005 21:38	1.000	3

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 20-FEB-2005
Instrument: msv5.i
Analyst(s): RFS

Standard	Conc ppm	
Int. Standard	50	5-25-7
Surrogate	50	5-25-7
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-6
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		e7439.d	0.00	20-FEB-2005 07:36	1.000	2
1000		e7440.d	0.00	20-FEB-2005 08:15	1.000	2
1400		e7441.d	5.00	20-FEB-2005 08:43	1.000	8
224409		e7442.d	5.00	20-FEB-2005 09:17	1.000	9
224410		e7443.d	5.00	20-FEB-2005 09:41	1.000	10
20502180110		e7444.d	5.00	20-FEB-2005 10:09	1.000	3
20502180104		e7445.d	5.00	20-FEB-2005 10:33	1.000	4
20502180105		e7446.d	5.00	20-FEB-2005 10:56	1.000	5
20502180111		e7447ms.d	5.00	20-FEB-2005 11:20	1.000	6
20502180112		e7448msd.d	5.00	20-FEB-2005 11:44	1.000	7
BLK		e7449.d	5.00	20-FEB-2005 12:09	1.000	8
20502180106		e7450.d	5.00	20-FEB-2005 12:32	1.000	9
20502180107		e7451.d	5.00	20-FEB-2005 12:56	1.000	10
20502180108		e7452.d	5.00	20-FEB-2005 13:19	1.000	11
20502180109		e7453.d	5.00	20-FEB-2005 13:44	1.000	12
20502180113		e7454.d	5.00	20-FEB-2005 14:08	1.000	13
20502180114		e7455.d	5.00	20-FEB-2005 14:31	1.000	14
20502180115		e7456.d	5.00	20-FEB-2005 14:55	1.000	15
20502180502		e7457.d	5.00	20-FEB-2005 15:19	1.000	16
20502180503		e7458.d	5.00	20-FEB-2005 15:42	1.000	1
20502180111		e7459ms.d	5.00	20-FEB-2005 16:06	1.000	2
20502180112		e7460msd.d	5.00	20-FEB-2005 16:30	1.000	3
BLANK		e7461.d	5.00	20-FEB-2005 16:53	1.000	4
20502180111		e7462ms.d	5.00	20-FEB-2005 17:17	1.000	5
20502180112		e7463msd.d	5.00	20-FEB-2005 17:40	1.000	6
BLK		e7464.d	5.00	20-FEB-2005 18:04	1.000	7
BLK		e7465.d	5.00	20-FEB-2005 18:28	1.000	8
BLK		e7466.d	5.00	20-FEB-2005 18:52	1.000	9
BLK		e7467.d	5.00	20-FEB-2005 19:16	1.000	10
BLK		e7468.d	5.00	20-FEB-2005 19:40	1.000	11
BLK		e7469.d	5.00	20-FEB-2005 20:05	1.000	12
BLK		e7470.d	5.00	20-FEB-2005 20:29	1.000	13
BLK		e7471.d	5.00	20-FEB-2005 20:53	1.000	14
BLK		e7472.d	5.00	20-FEB-2005 21:17	1.000	15
BLK		e7473.d	5.00	20-FEB-2005 21:41	1.000	16
BLK		e7474.d	5.00	20-FEB-2005 22:05	1.000	1
BLK		e7475.d	5.00	20-FEB-2005 22:30	1.000	2
BLK		e7476.d	5.00	20-FEB-2005 22:54	1.000	3
BLK		e7477.d	5.00	20-FEB-2005 23:18	1.000	4

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 20-FEB-2005
Instrument: msv5.i
Analyst(s): RFS

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
BLK		e7478.d	5.00	20-FEB-2005 23:42	1.000	5
BLK		e7479.d	5.00	21-FEB-2005 00:07	1.000	6
BLK		e7480.d	5.00	21-FEB-2005 00:31	1.000	7
BLK		e7481.d	5.00	21-FEB-2005 00:54	1.000	8

REVISED 01/01/2000

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 2. 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: 287770 Analytical Batch: 288019

Sample ID: 05283SCS050217
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180501
Date Collected: 02/17/05 Time: 1500
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1100
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050225/H0000440

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	34.0	U	9.26	34.0
91-57-6	2-Methylnaphthalene	34.0	U	10.3	34.0
83-32-9	Acenaphthene	34.0	U	9.94	34.0
208-96-8	Acenaphthylene	34.0	U	3.80	34.0
120-12-7	Anthracene	3.37	U	0.481	3.37
56-55-3	Benzo(a)anthracene	3.37	U	1.22	3.37
50-32-8	Benzo(a)pyrene	3.37	U	1.13	3.37
205-99-2	Benzo(b)fluoranthene	3.37	U	0.736	3.37
191-24-2	Benzo(g,h,i)perylene	3.37	U	0.378	3.37
207-08-9	Benzo(k)fluoranthene	3.37	U	0.864	3.37
218-01-9	Chrysene	3.37	U	0.964	3.37
53-70-3	Dibenz(a,h)anthracene	3.37	U	0.902	3.37
206-44-0	Fluoranthene	3.37	U	0.936	3.37
86-73-7	Fluorene	17.1	U	3.59	17.1
193-39-5	Indeno(1,2,3-cd)pyrene	8.48	U	0.931	8.48
91-20-3	Naphthalene	8.48	U	3.15	8.48
85-01-8	Phenanthrene	3.37	U	0.920	3.37
129-00-0	Pyrene	3.37	U	0.487	3.37

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000440.d
Lab Smp Id: 20502180501 Client Smp ID: 20502180501
Inj Date : 25-FEB-2005 11:00
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180501
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 14:22 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	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/Kg)
$ 11 p-Terphenyl	2.797	2.921	-0.124	9321	1.28856	43.0(M)

QC Flag Legend

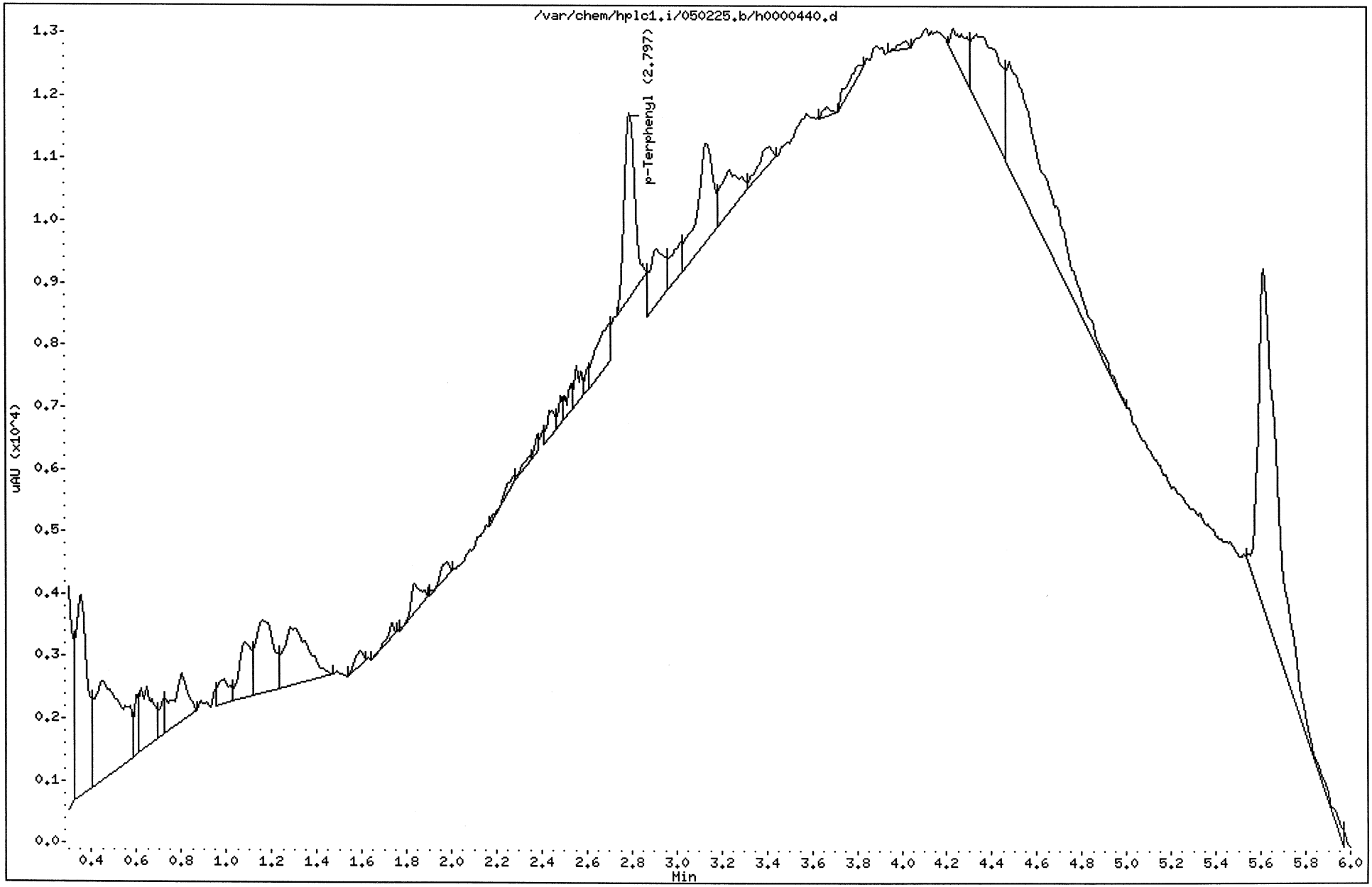
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000440.d
Date : 25-FEB-2005 11:00
Client ID: 20502180501
Sample Info: 20502180501
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000197



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: 287722 Analytical Batch: 287996

Sample ID: 05283EB1W050217
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180502
Date Collected: 02/17/05 Time: 1440
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1859
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050223/H0000429

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	0.256		0.032	0.100
50-32-8	Benzo(a)pyrene	0.251		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.365		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.617		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.443		0.033	0.100
218-01-9	Chrysene	0.480		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.270		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/050223.b/h0000429.d
Lab Smp Id: 20502180502 Client Smp ID: 20502180502
Inj Date : 23-FEB-2005 18:59
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180502
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	2.792	2.868	-0.076	11609	1.60487	1.60(M)
12 Benzo(a)Anthracene	3.046	3.048	-0.002	4182	0.25571	0.256
13 Chrysene	3.186	3.188	-0.002	13092	0.47967	0.480
14 Benzo(b)Fluoranthene	3.659	3.662	-0.003	7429	0.36458	0.365(M)
15 Benzo(k)Fluoranthene	3.893	3.895	-0.002	5568	0.44291	0.443
16 Benzo(a)Pyrene	4.072	4.075	-0.003	4422	0.25099	0.251
17 Dibenzo(a,h)Anthracene	4.359	4.522	-0.163	1127	0.26958	0.270
18 Benzo(g,h,i)Perylene	4.652	4.655	-0.003	4118	0.61728	0.617

QC Flag Legend

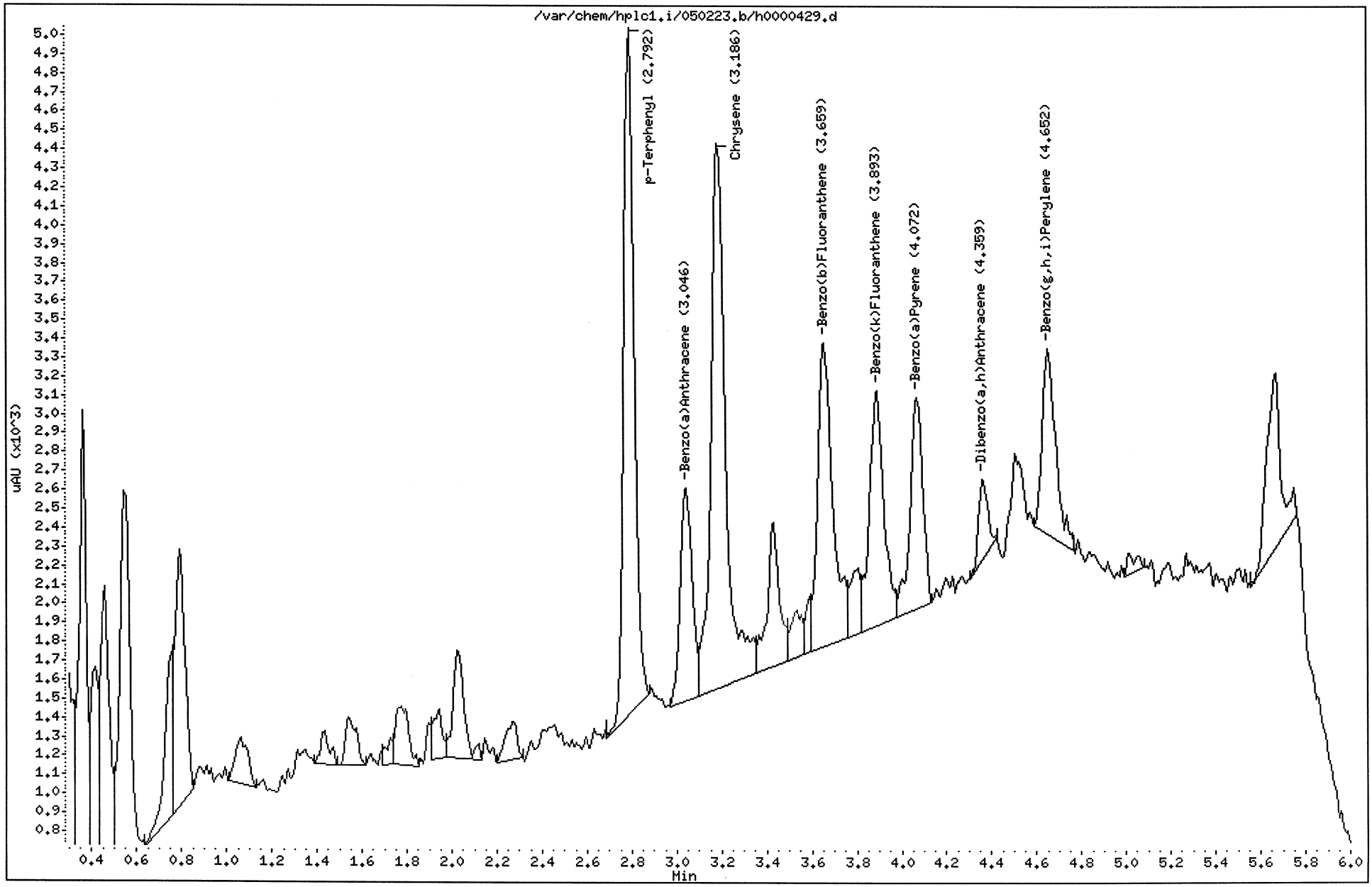
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000429.d
Date : 23-FEB-2005 18:59
Client ID: 20502180502
Sample Info: 20502180502
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000200



GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000429.d
Lab Smp Id: 20502180502 Client Smp ID: 20502180502
Inj Date : 23-FEB-2005 18:59
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180502
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 25-Feb-2005 08:46 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	2.803	2.883	-0.080	7128	1.01814	1.02(M)
12 Benzo(a)Anthracene	3.053	3.057	-0.004	4396	0.18743	0.187
13 Chrysene	3.200	3.203	-0.003	457	0.26980	0.270(M)
14 Benzo(b)Fluoranthene	3.670	3.673	-0.003	4644	0.24089	0.241
15 Benzo(k)Fluoranthene	3.900	3.907	-0.007	13598	0.31160	0.312
16 Benzo(a)Pyrene	4.083	4.083	0.000	7219	0.19322	0.193
17 Dibenzo(a,h)Anthracene	4.383	4.383	0.000	5240	0.36582	0.366(M)
18 Benzo(g,h,i)Perylene	4.533	4.533	0.000	3654	0.30252	0.303(M)
19 Indeno(1,2,3-c,d)Pyrene	4.670	4.670	0.000	1433	0.41698	0.417(M)

QC Flag Legend

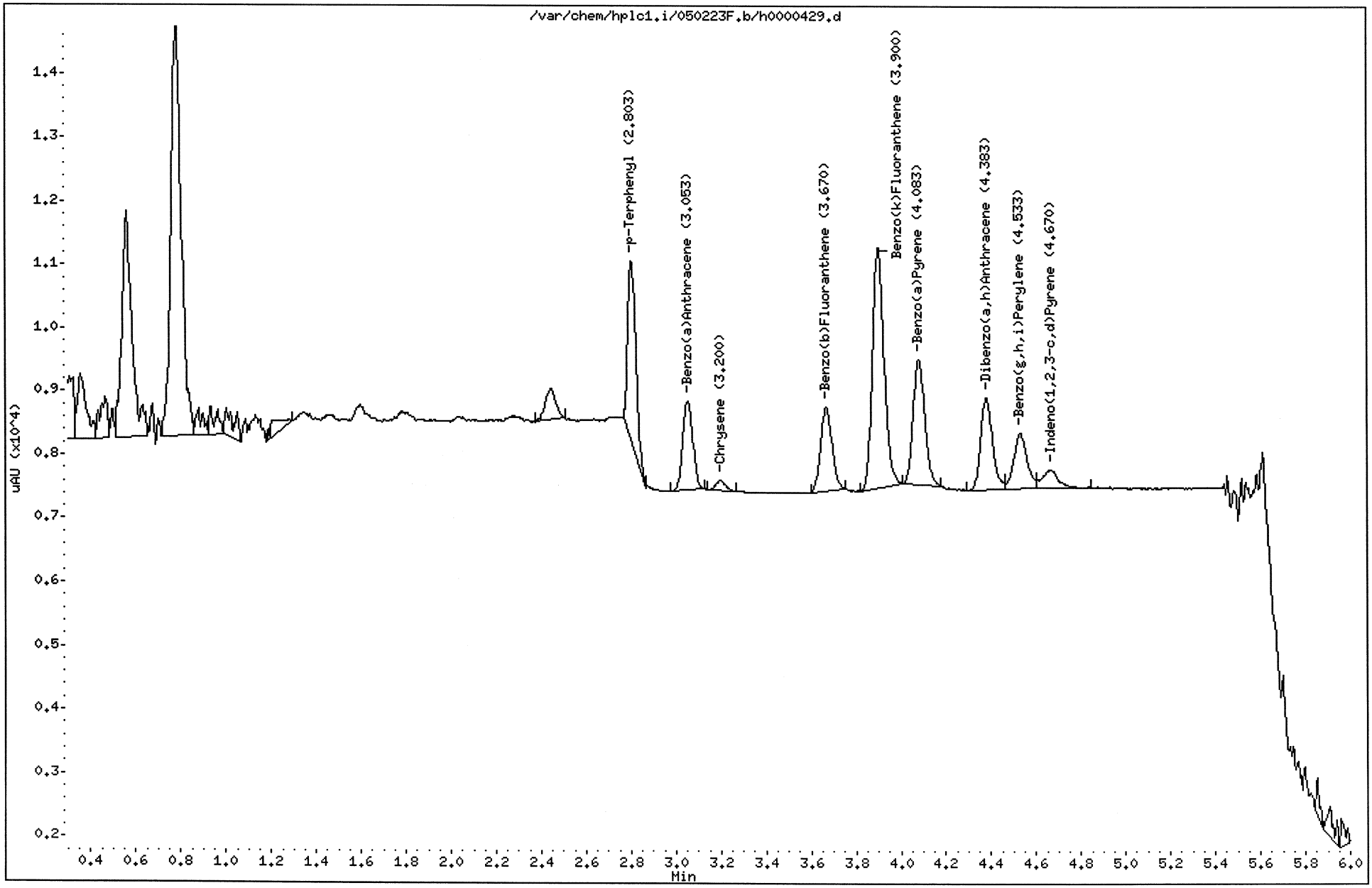
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000429.d
Date : 23-FEB-2005 18:59
Client ID: 20502180502
Sample Info: 20502180502
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000203



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: 287722 Analytical Batch: 287996

Sample ID: 05283EB2W050217
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180503
Date Collected: 02/17/05 Time: 1510
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1913
Dilution Factor: 1 Analyst: RLW
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: 050223/H0000431

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/050223.b/h0000431.d
Lab Smp Id: 20502180503 Client Smp ID: 20502180503
Inj Date : 23-FEB-2005 19:13
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180503
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	2.852	2.868	-0.016	12405	1.71499	1.71(M)

QC Flag Legend

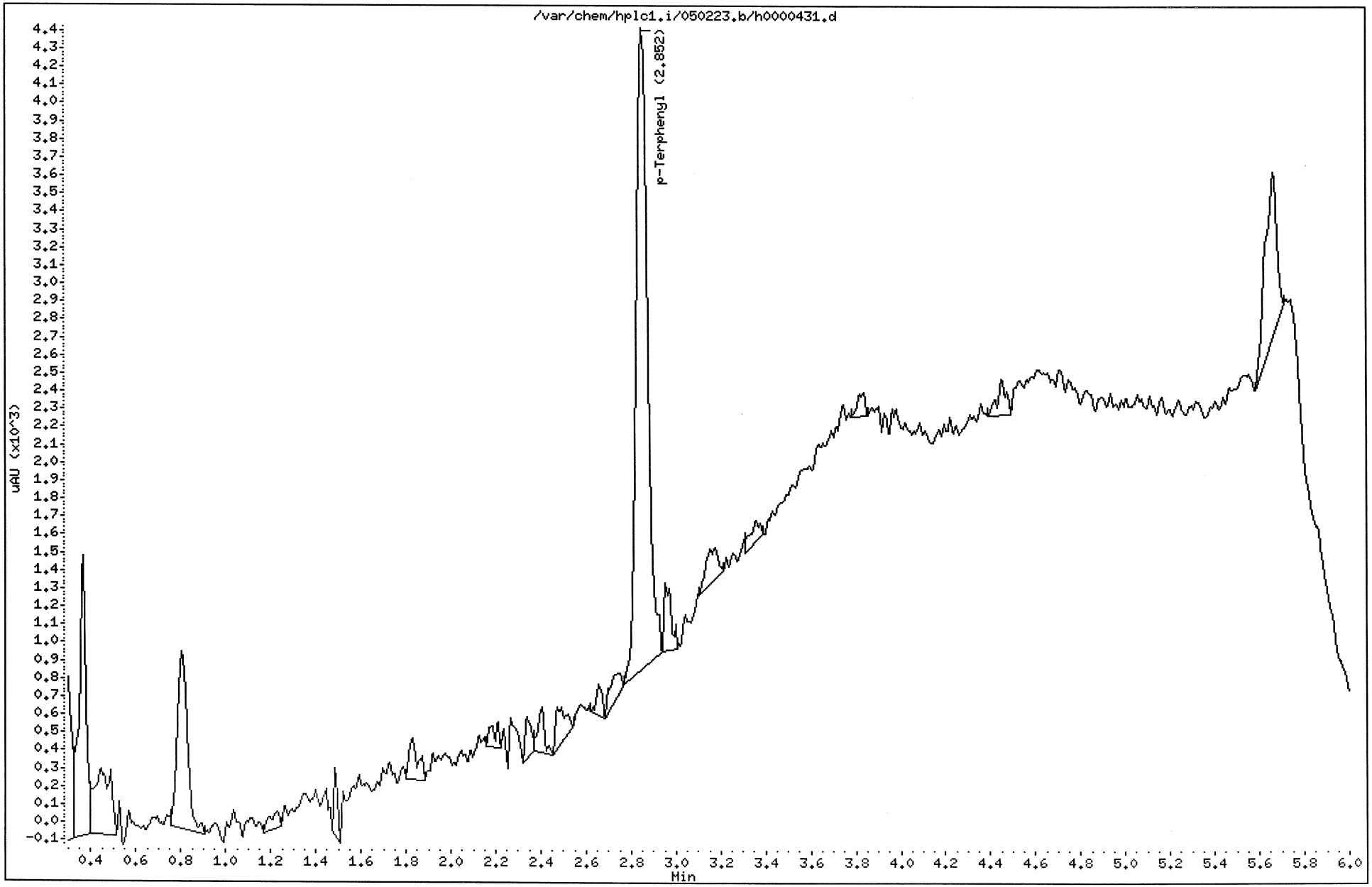
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000431.d
Date : 23-FEB-2005 19:13
Client ID: 20502180503
Sample Info: 20502180503
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000206



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: 287722 Analytical Batch: 287996

Sample ID: 86-JETC-MS-Q1-05
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180111
Date Collected: 02/16/05 Time: 1140
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1838
Dilution Factor: 1 Analyst: RLW
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: 050223/H0000426

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	3.96		0.291	1.00
91-57-6	2-Methylnaphthalene	3.53		0.142	1.00
83-32-9	Acenaphthene	3.48		0.331	1.00
208-96-8	Acenaphthylene	4.06		0.153	1.00
120-12-7	Anthracene	4.04		0.024	0.100
56-55-3	Benzo(a)anthracene	4.50		0.032	0.100
50-32-8	Benzo(a)pyrene	4.29		0.033	0.100
205-99-2	Benzo(b)fluoranthene	4.29		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	3.51		0.016	0.100
207-08-9	Benzo(k)fluoranthene	4.25		0.033	0.100
218-01-9	Chrysene	4.59		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	2.89		0.029	0.100
206-44-0	Fluoranthene	4.19		0.044	0.100
86-73-7	Fluorene	4.42		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	4.04		0.041	0.250
91-20-3	Naphthalene	4.65		0.124	0.250
85-01-8	Phenanthrene	4.35		0.025	0.100
129-00-0	Pyrene	4.42		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000426.d
Lab Smp Id: 20502180111 Client Smp ID: 20502180111
Inj Date : 23-FEB-2005 18:38
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180111
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.988	0.995	-0.007	12618	4.65465	4.65
2 Acenaphthylene	1.195	1.202	-0.007	7320	4.05549	4.06
3 1-Methynaphthalene	1.322	1.328	-0.006	5745	3.96426	3.96
4 2-Methylnaphthalene	1.402	1.408	-0.006	7057	3.52659	3.53
5 Acenaphthene	1.475	1.475	0.000	3275	3.48004	3.48
6 Fluorene	1.568	1.575	-0.007	50164	4.41792	4.42(M)
7 Phenanthrene	1.795	1.802	-0.007	116888	4.34874	4.35(M)
8 Anthracene	2.022	2.035	-0.013	228653	4.04470	4.04(M)
9 Fluoranthene	2.255	2.262	-0.007	28633	4.19468	4.19
10 Pyrene	2.422	2.435	-0.013	26981	4.41760	4.42
$ 11 p-Terphenyl	2.788	2.868	-0.080	12321	1.70341	1.70(M)
12 Benzo(a)Anthracene	3.028	3.048	-0.020	73670	4.50459	4.50(M)
13 Chrysene	3.175	3.188	-0.013	125312	4.59122	4.59(M)

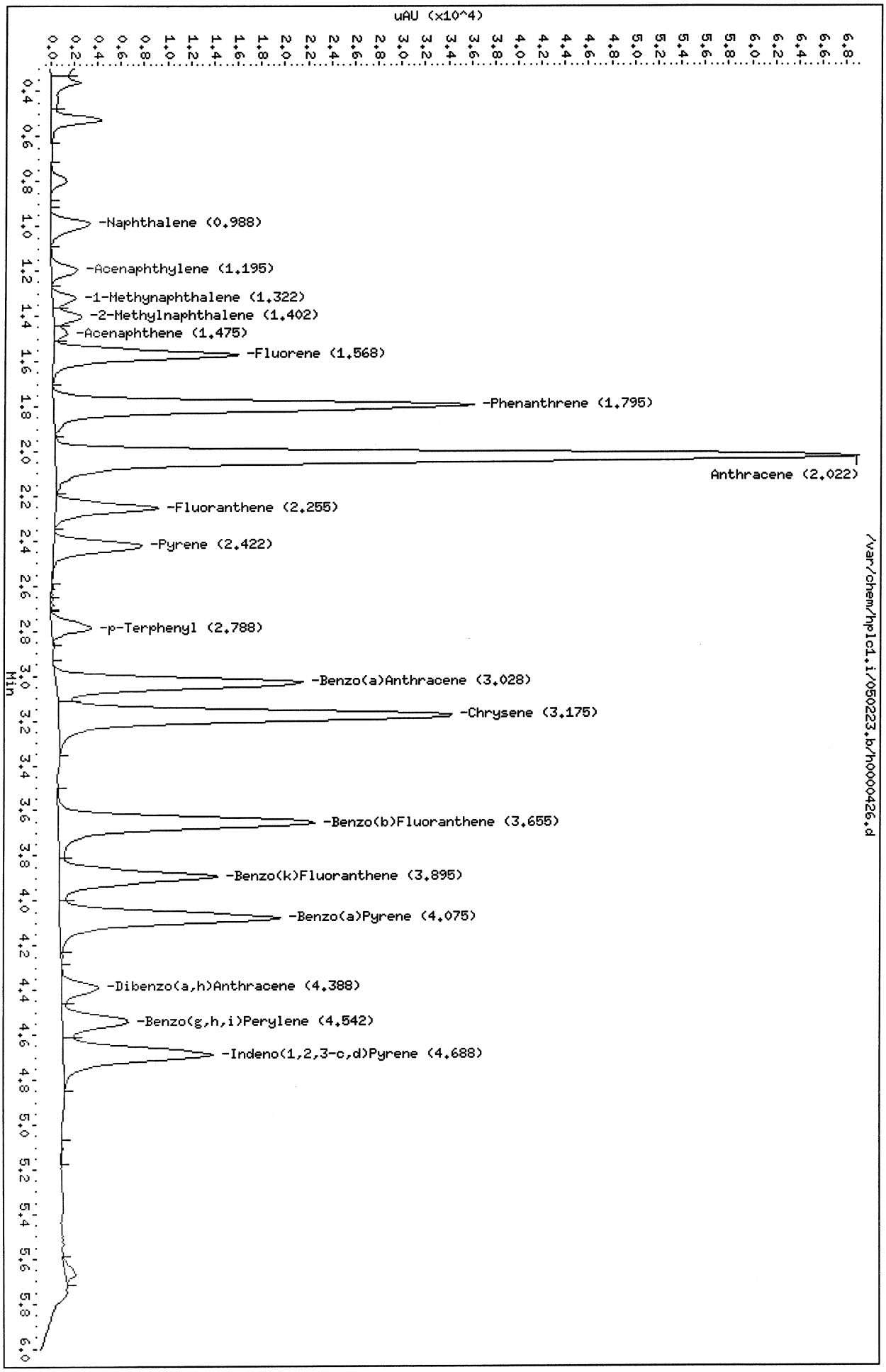
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	3.655	3.662	-0.007	87467	4.29238	4.29
15 Benzo(k)Fluoranthene	3.895	3.895	0.000	53375	4.24579	4.25
16 Benzo(a)Pyrene	4.075	4.075	0.000	75560	4.28869	4.29
17 Dibenzo(a,h)Anthracene	4.388	4.522	-0.134	12099	2.89405	2.89
18 Benzo(g,h,i)Perylene	4.542	4.655	-0.113	23393	3.50657	3.51
19 Indeno(1,2,3-c,d)Pyrene	4.688	4.743	-0.055	56919	4.03820	4.04

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000426.d
Date : 23-FEB-2005 18:38
Client ID: 20502180111
Sample Info: 20502180111
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000426.d
Lab Smp Id: 20502180111 Client Smp ID: 20502180111
Inj Date : 23-FEB-2005 18:38
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180111
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 25-Feb-2005 08:46 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.000	1.010	-0.010	37225	3.78587	3.79
3 1-Methynaphthalene	1.333	1.340	-0.007	6150	3.20114	3.20
4 2-Methylnaphthalene	1.417	1.420	-0.003	3755	2.49184	2.49
5 Acenaphthene	1.487	1.493	-0.006	13813	3.88951	3.89
7 Phenanthrene	1.810	1.820	-0.010	61481	4.37100	4.37(M)
8 Anthracene	2.037	2.047	-0.010	23830	4.31426	4.31
9 Fluoranthene	2.263	2.277	-0.014	18273	3.98316	3.98(M)
10 Pyrene	2.437	2.447	-0.010	125119	4.16077	4.16
$ 11 p-Terphenyl	2.793	2.883	-0.090	4613	0.65897	0.659(RM)
12 Benzo(a)Anthracene	3.043	3.057	-0.014	91761	3.91244	3.91(M)
13 Chrysene	3.187	3.203	-0.016	9876	2.97592	2.98(M)
14 Benzo(b)Fluoranthene	3.667	3.673	-0.006	76953	3.99160	3.99(M)
15 Benzo(k)Fluoranthene	3.903	3.907	-0.004	183896	4.21397	4.21

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
16 Benzo(a)Pyrene	4.087	4.083	0.004	152898	4.09249	4.09
17 Dibenzo(a,h)Anthracene	4.400	4.383	0.017	39195	2.73635	2.74
18 Benzo(g,h,i)Perylene	4.550	4.533	0.017	39233	3.24818	3.25
19 Indeno(1,2,3-c,d)Pyrene	4.697	4.670	0.027	16716	4.86406	4.86

QC Flag Legend

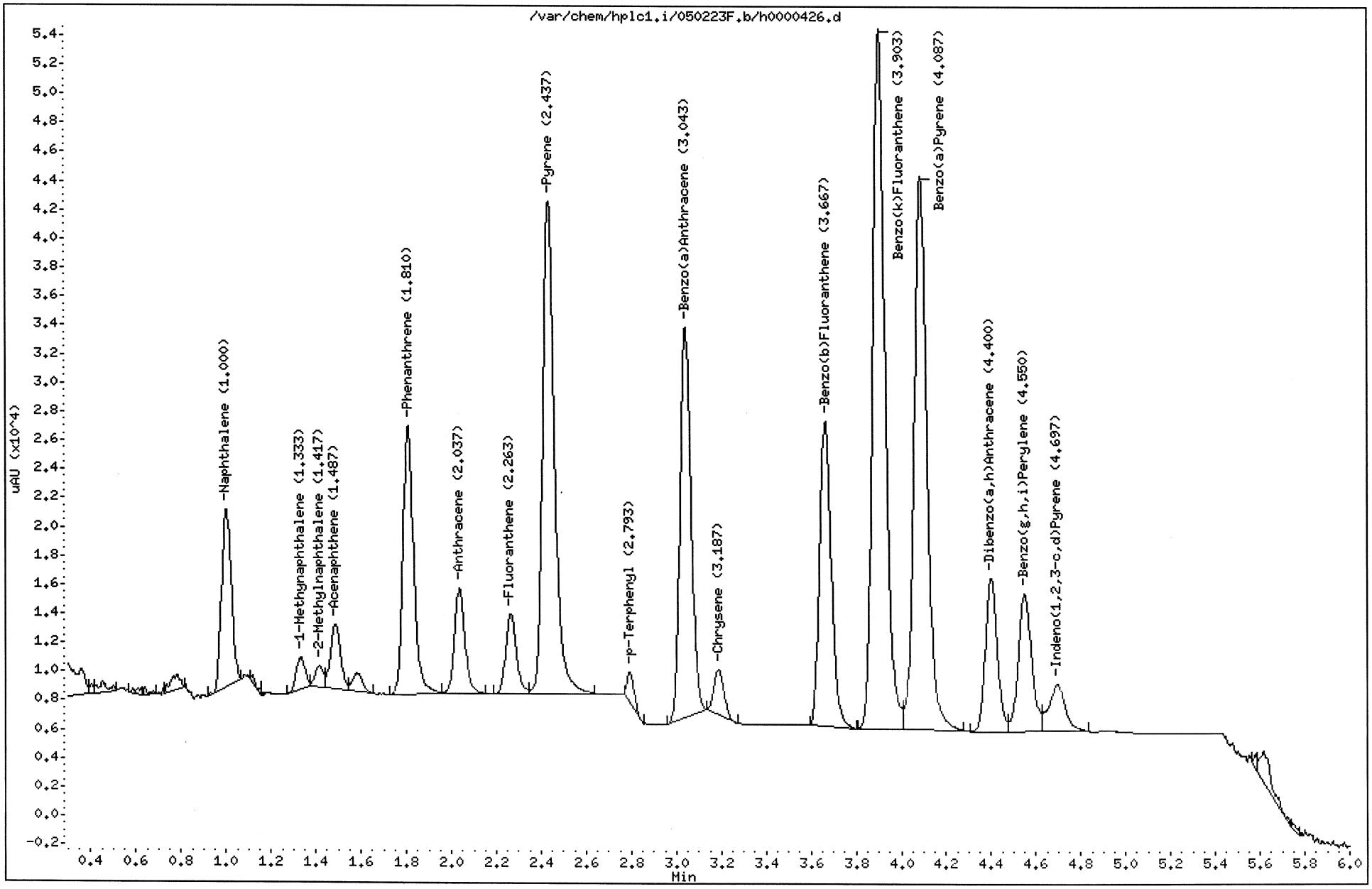
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000426.d
Date : 23-FEB-2005 18:38
Client ID: 20502180111
Sample Info: 20502180111
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000213



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: 287722 Analytical Batch: 287996

Sample ID: 86-JETC-MSD-Q1-05
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180112
Date Collected: 02/16/05 Time: 1140
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1845
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050223/H0000427

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	4.73		0.291	1.00
91-57-6	2-Methylnaphthalene	4.14		0.142	1.00
83-32-9	Acenaphthene	4.43		0.331	1.00
208-96-8	Acenaphthylene	4.20		0.153	1.00
120-12-7	Anthracene	4.07		0.024	0.100
56-55-3	Benzo(a)anthracene	4.62		0.032	0.100
50-32-8	Benzo(a)pyrene	4.48		0.033	0.100
205-99-2	Benzo(b)fluoranthene	4.53		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	4.23		0.016	0.100
207-08-9	Benzo(k)fluoranthene	4.44		0.033	0.100
218-01-9	Chrysene	4.69		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	3.60		0.029	0.100
206-44-0	Fluoranthene	4.68		0.044	0.100
86-73-7	Fluorene	4.53		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	4.12		0.041	0.250
91-20-3	Naphthalene	4.54		0.124	0.250
85-01-8	Phenanthrene	4.42		0.025	0.100
129-00-0	Pyrene	4.76		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000427.d
Lab Smp Id: 20502180112 Client Smp ID: 20502180112
Inj Date : 23-FEB-2005 18:45
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180112
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	1.006	0.995	0.011	12294	4.53513	4.54
2 Acenaphthylene	1.219	1.202	0.017	7572	4.19511	4.20
3 1-Methynaphthalene	1.339	1.328	0.011	6855	4.73020	4.73
4 2-Methylnaphthalene	1.426	1.408	0.018	8277	4.13626	4.14
5 Acenaphthene	1.492	1.475	0.017	4171	4.43214	4.43
6 Fluorene	1.599	1.575	0.024	51390	4.52590	4.53
7 Phenanthrene	1.832	1.802	0.030	118736	4.41749	4.42
8 Anthracene	2.079	2.035	0.044	230062	4.06961	4.07
9 Fluoranthene	2.312	2.262	0.050	31942	4.67944	4.68
10 Pyrene	2.486	2.435	0.051	29093	4.76340	4.76
$ 11 p-Terphenyl	2.872	2.868	0.004	12624	1.74518	1.75
12 Benzo(a)Anthracene	3.132	3.048	0.084	75579	4.62131	4.62
13 Chrysene	3.292	3.188	0.104	127979	4.68893	4.69

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
14 Benzo(b)Fluoranthene	3.786	3.662	0.124	92234	4.52632	4.53
15 Benzo(k)Fluoranthene	4.032	3.895	0.137	55872	4.44442	4.44
16 Benzo(a)Pyrene	4.213	4.075	0.138	78945	4.48081	4.48
17 Dibenzo(a,h)Anthracene	4.526	4.522	0.004	15068	3.60442	3.60(M)
18 Benzo(g,h,i)Perylene	4.673	4.655	0.018	28198	4.22689	4.23(M)
19 Indeno(1,2,3-c,d)Pyrene	4.846	4.743	0.103	58102	4.12218	4.12(M)

QC Flag Legend

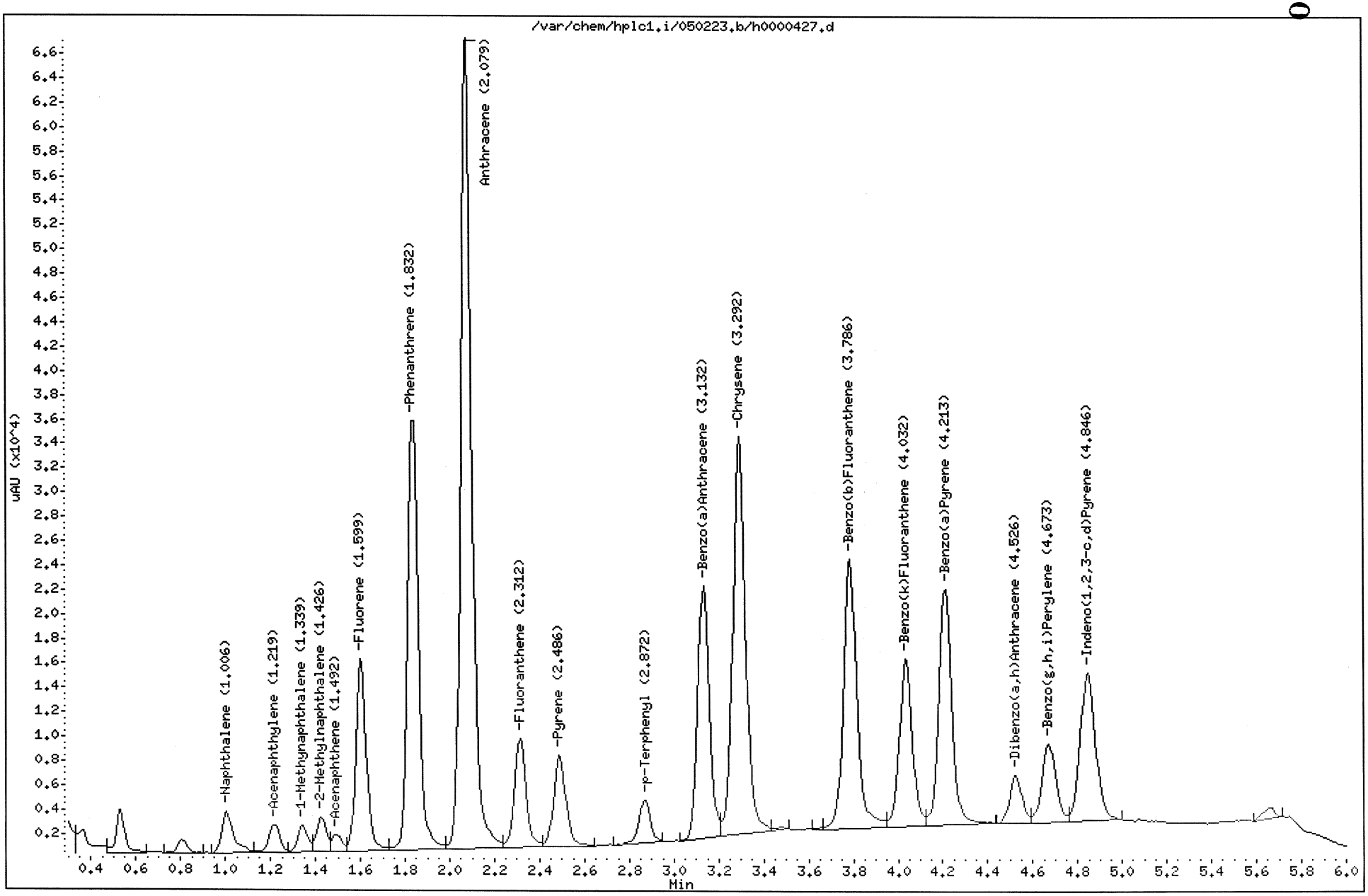
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000427.d
Date : 23-FEB-2005 18:45
Client ID: 20502180112
Sample Info: 20502180112
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000217



GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000427.d
Lab Smp Id: 20502180112 Client Smp ID: 20502180112
Inj Date : 23-FEB-2005 18:45
Operator : rlw Inst ID: hplc1.i
Smp Info : 20502180112
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 25-Feb-2005 08:46 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.023	1.010	0.013	42761	4.34889	4.35
3 1-Methynaphthalene	1.357	1.340	0.017	8179	4.25726	4.26
4 2-Methylnaphthalene	1.440	1.420	0.020	6011	3.98894	3.99
5 Acenaphthene	1.513	1.493	0.020	15876	4.47041	4.47
7 Phenanthrene	1.850	1.820	0.030	60650	4.31186	4.31
8 Anthracene	2.090	2.047	0.043	22920	4.14951	4.15
9 Fluoranthene	2.330	2.277	0.053	17745	3.86792	3.87
10 Pyrene	2.503	2.447	0.056	122721	4.08103	4.08
$ 11 p-Terphenyl	2.883	2.883	0.000	11183	1.59734	1.60
12 Benzo(a)Anthracene	3.147	3.057	0.090	96969	4.13445	4.13
13 Chrysene	3.307	3.203	0.104	13535	4.02693	4.03
14 Benzo(b)Fluoranthene	3.797	3.673	0.124	85492	4.43450	4.43
15 Benzo(k)Fluoranthene	4.047	3.907	0.140	193304	4.42955	4.43

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
16 Benzo(a)Pyrene	4.223	4.083	0.140	159519	4.26971	4.27
17 Dibenzo(a,h)Anthracene	4.537	4.383	0.154	50519	3.52692	3.53(M)
18 Benzo(g,h,i)Perylene	4.687	4.533	0.154	48895	4.04812	4.05(M)
19 Indeno(1,2,3-c,d)Pyrene	4.860	4.670	0.190	14423	4.19701	4.20(M)

QC Flag Legend

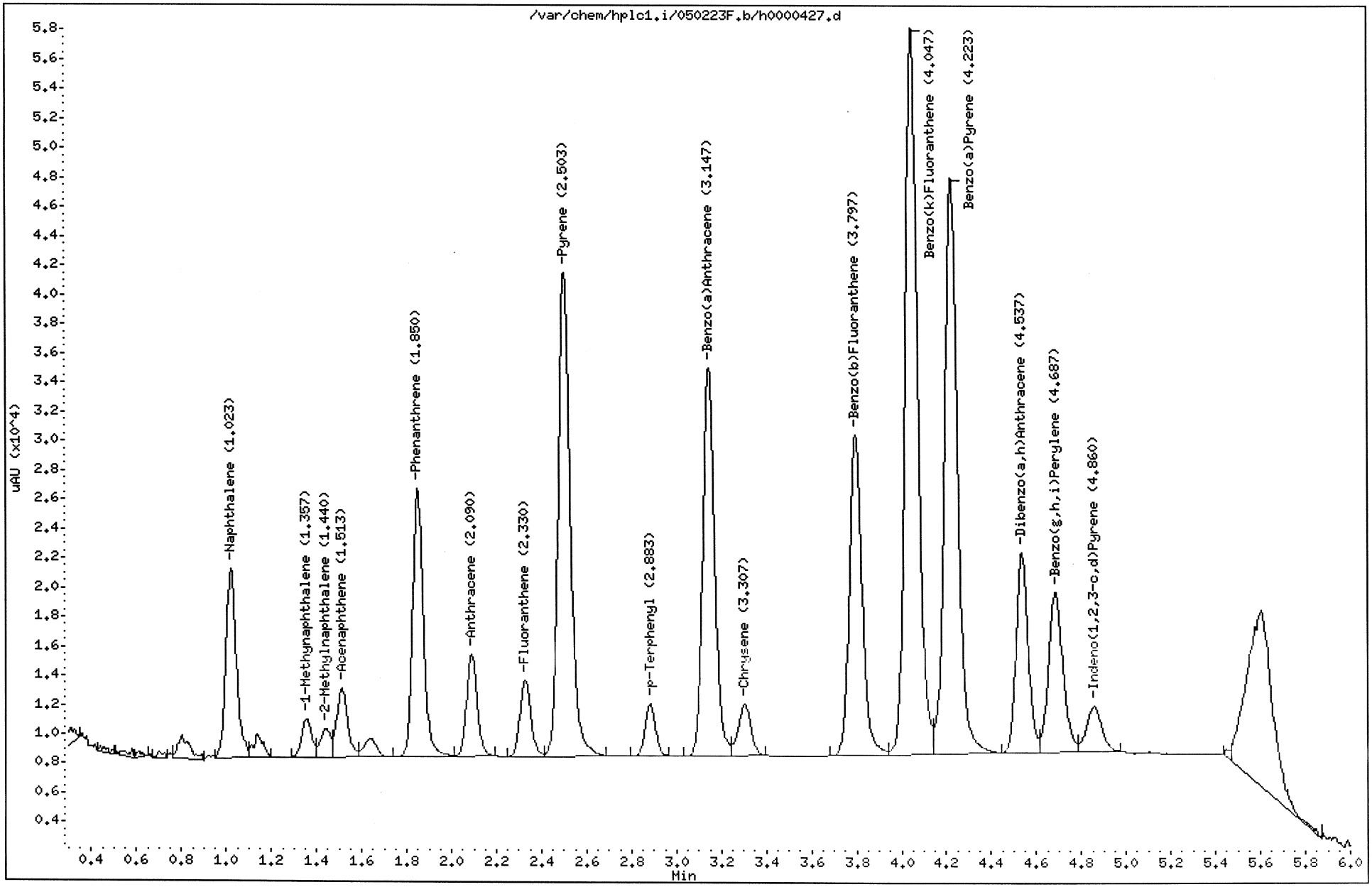
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000427.d
Date : 23-FEB-2005 18:45
Client ID: 20502180112
Sample Info: 20502180112
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000220



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: 287722 Analytical Batch: 287996

Sample ID: MB224268
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224268
Date Collected: Time:
Date Received:
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1707
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050223/H0000413

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/050223.b/h0000413.d
Lab Smp Id: 224268 Client Smp ID: 224268
Inj Date : 23-FEB-2005 17:07
Operator : rlw Inst ID: hplc1.i
Smp Info : 224268
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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)	FINAL (ug/L)
$ 11 p-Terphenyl	2.790	2.868	-0.078	11031	1.52499	1.52(M)

QC Flag Legend

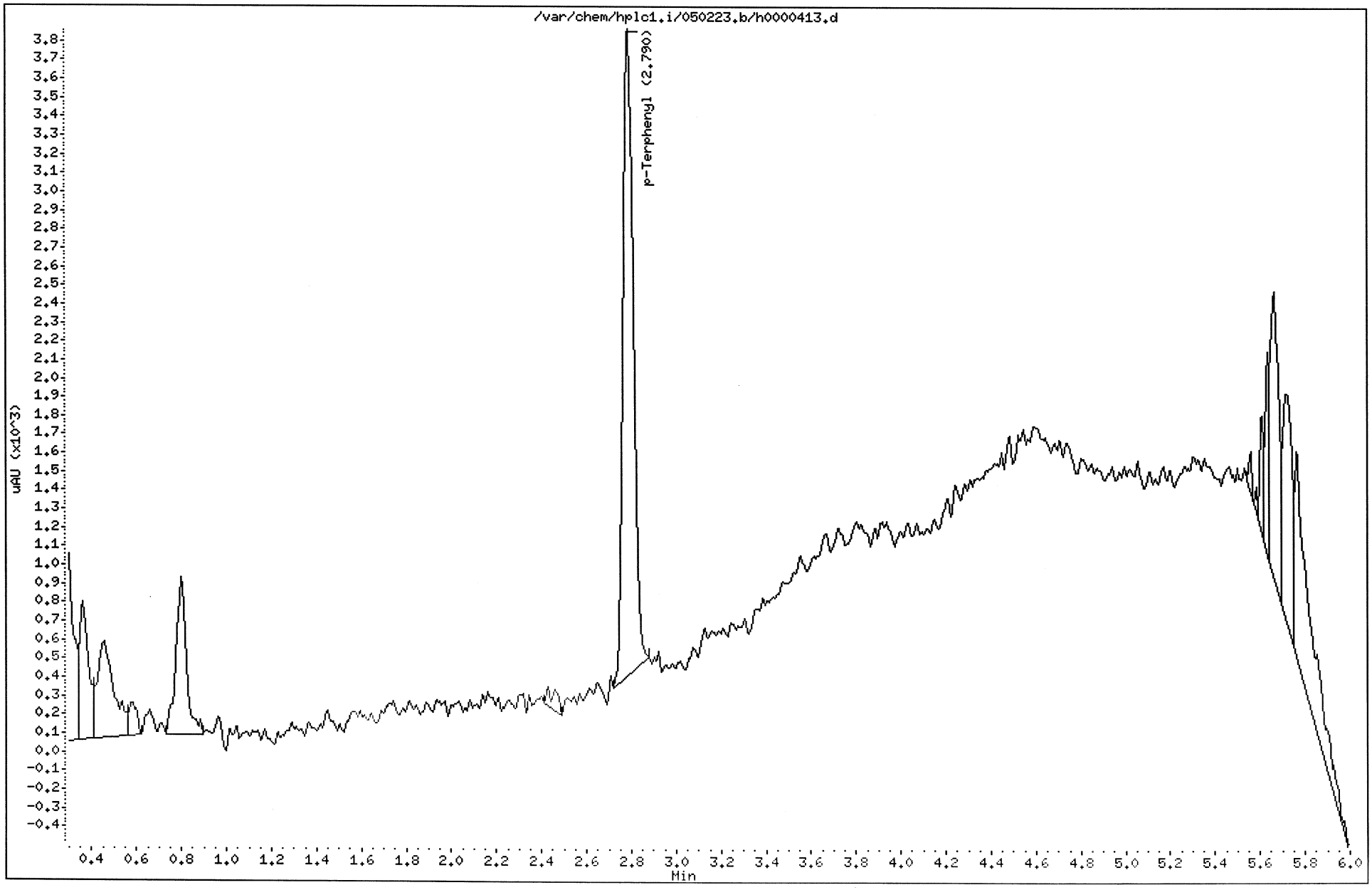
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000413.d
Date : 23-FEB-2005 17:07
Client ID: 224268
Sample Info: 224268
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000223



GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000413.d
Lab Smp Id: 224268 Client Smp ID: 224268
Inj Date : 23-FEB-2005 17:07
Operator : rlw Inst ID: hplc1.i
Smp Info : 224268
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 25-Feb-2005 08:46 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	2.800	2.883	-0.083	6090	0.86996	0.870(M)

QC Flag Legend

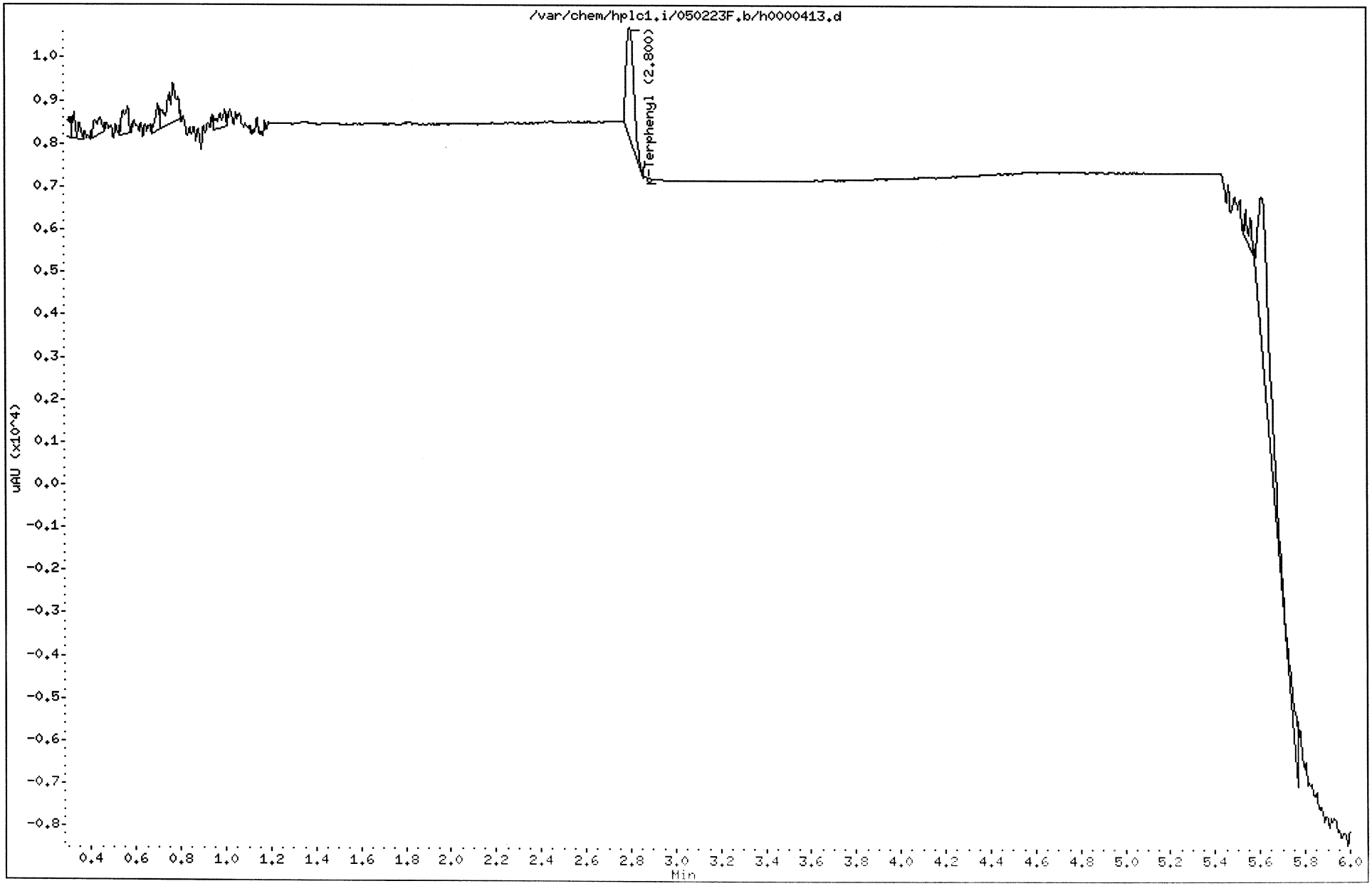
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000413.d
Date : 23-FEB-2005 17:07
Client ID: 224268
Sample Info: 224268
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000225



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: 287722 Analytical Batch: 287996

Sample ID: LCS224269
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224269
Date Collected: Time:
Date Received:
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1714
Dilution Factor: 1 Analyst: RLW
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: 050223/H0000414

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	0.452	J	0.291	1.00
91-57-6	2-Methylnaphthalene	0.318	J	0.142	1.00
83-32-9	Acenaphthene	1.00	U	0.331	1.00
208-96-8	Acenaphthylene	0.483	J	0.153	1.00
120-12-7	Anthracene	0.450		0.024	0.100
56-55-3	Benzo(a)anthracene	0.483		0.032	0.100
50-32-8	Benzo(a)pyrene	0.466		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.465		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.679		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.442		0.033	0.100
218-01-9	Chrysene	0.513		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	0.386		0.029	0.100
206-44-0	Fluoranthene	0.520		0.044	0.100
86-73-7	Fluorene	0.480	J	0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.433		0.041	0.250
91-20-3	Naphthalene	0.699		0.124	0.250
85-01-8	Phenanthrene	0.470		0.025	0.100
129-00-0	Pyrene	0.506		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000414.d
Lab Smp Id: 224269 Client Smp ID: 224269
Inj Date : 23-FEB-2005 17:14
Operator : rlw Inst ID: hplc1.i
Smp Info : 224269
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:51 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	1.016	1.003	0.013	1894	0.69897	0.699(R)
2 Acenaphthylene	1.216	1.217	-0.001	872	0.48333	0.483(R)
3 1-Methynaphthalene	1.342	1.343	-0.001	655	0.45211	0.452(R)
4 2-Methylnaphthalene	1.429	1.423	0.006	635	0.31783	0.318(R)
6 Fluorene	1.602	1.603	-0.001	5450	0.48001	0.480(R)
7 Phenanthrene	1.836	1.830	0.006	12634	0.47007	0.470(R)
8 Anthracene	2.069	2.070	-0.001	25464	0.45044	0.450(R)
9 Fluoranthene	2.309	2.303	0.006	3549	0.52007	0.520(R)
10 Pyrene	2.476	2.477	-0.001	3088	0.50563	0.506(R)
$ 11 p-Terphenyl	2.869	2.923	-0.054	1568	0.21685	0.217(R)
12 Benzo(a)Anthracene	3.116	3.103	0.013	7901	0.48317	0.483(R)
13 Chrysene	3.276	3.257	0.019	14007	0.51320	0.513(R)
14 Benzo(b)Fluoranthene	3.756	3.737	0.019	9481	0.46532	0.465(R)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.003	3.970	0.033	5555	0.44190	0.442(R)
16 Benzo(a)Pyrene	4.176	4.150	0.026	8204	0.46565	0.466(R)
17 Dibenzo(a,h)Anthracene	4.469	4.450	0.019	1613	0.38606	0.386(R)
18 Benzo(g,h,i)Perylene	4.622	4.590	0.032	4531	0.67922	0.679(R)
19 Indeno(1,2,3-c,d)Pyrene	4.782	4.743	0.039	6099	0.43272	0.433(R)

QC Flag Legend

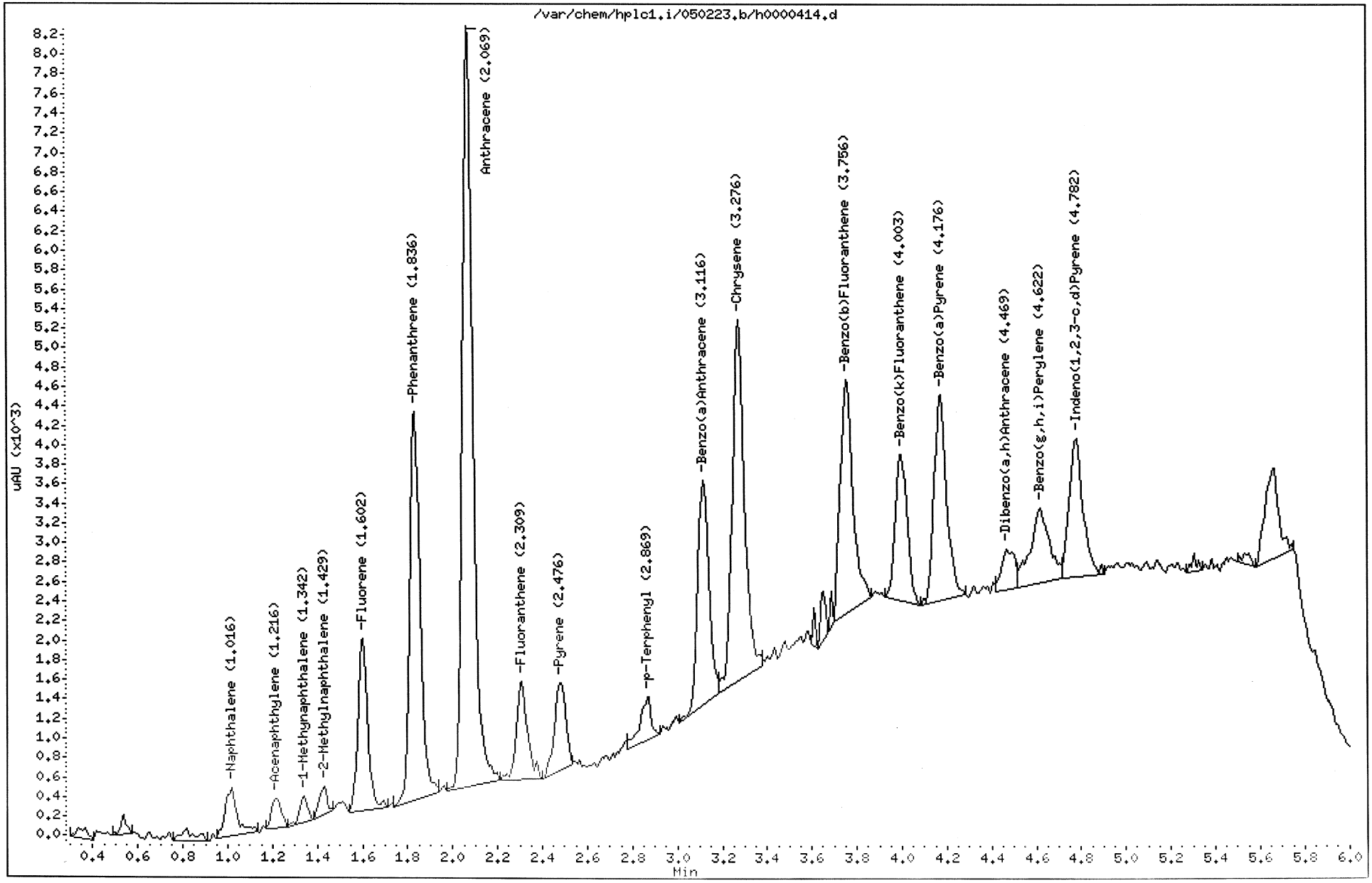
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/hplc1.i/050223.b/h0000414.d
Date : 23-FEB-2005 17:14
Client ID: 224269
Sample Info: 224269
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000229



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: 287722 Analytical Batch: 287996

Sample ID: LCSD224270
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224270
Date Collected: Time:
Date Received:
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 1721
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1
Lab File ID: 050223/H0000415

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	5.17		0.291	1.00
91-57-6	2-Methylnaphthalene	4.38		0.142	1.00
83-32-9	Acenaphthene	4.68		0.331	1.00
208-96-8	Acenaphthylene	4.45		0.153	1.00
120-12-7	Anthracene	4.32		0.024	0.100
56-55-3	Benzo(a)anthracene	4.91		0.032	0.100
50-32-8	Benzo(a)pyrene	4.69		0.033	0.100
205-99-2	Benzo(b)fluoranthene	4.33		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	3.10		0.016	0.100
207-08-9	Benzo(k)fluoranthene	4.44		0.033	0.100
218-01-9	Chrysene	5.05		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	2.58		0.029	0.100
206-44-0	Fluoranthene	4.88		0.044	0.100
86-73-7	Fluorene	4.85		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	3.95		0.041	0.250
91-20-3	Naphthalene	5.05		0.124	0.250
85-01-8	Phenanthrene	4.68		0.025	0.100
129-00-0	Pyrene	4.95		0.034	0.100

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000415.d
Lab Smp Id: 224270 Client Smp ID: 224270
Inj Date : 23-FEB-2005 17:21
Operator : rlw Inst ID: hplc1.i
Smp Info : 224270
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 24-Feb-2005 07:54 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.990	0.995	-0.005	13690	5.05010	5.05
2 Acenaphthylene	1.203	1.202	0.001	8029	4.44830	4.45
3 1-Methynaphthalene	1.330	1.328	0.002	7499	5.17458	5.17
4 2-Methylnaphthalene	1.410	1.408	0.002	8760	4.37763	4.38
5 Acenaphthene	1.477	1.475	0.002	4404	4.67973	4.68
6 Fluorene	1.577	1.575	0.002	55085	4.85131	4.85
7 Phenanthrene	1.810	1.802	0.008	125663	4.67520	4.68
8 Anthracene	2.037	2.035	0.002	244369	4.32269	4.32
9 Fluoranthene	2.270	2.262	0.008	33338	4.88396	4.88
10 Pyrene	2.437	2.435	0.002	30258	4.95415	4.95
$ 11 p-Terphenyl	2.797	2.868	-0.071	13201	1.82503	1.83(M)
12 Benzo(a)Anthracene	3.050	3.048	0.002	80227	4.90551	4.91
13 Chrysene	3.197	3.188	0.009	137750	5.04692	5.05

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
14 Benzo(b)Fluoranthene	3.670	3.662	0.008	88331	4.33478	4.33
15 Benzo(k)Fluoranthene	3.903	3.895	0.008	55863	4.44371	4.44
16 Benzo(a)Pyrene	4.083	4.075	0.008	82673	4.69241	4.69
17 Dibenzo(a,h)Anthracene	4.383	4.522	-0.139	10789	2.58070	2.58
18 Benzo(g,h,i)Perylene	4.530	4.655	-0.125	20679	3.09975	3.10
19 Indeno(1,2,3-c,d)Pyrene	4.670	4.743	-0.073	55706	3.95214	3.95

QC Flag Legend

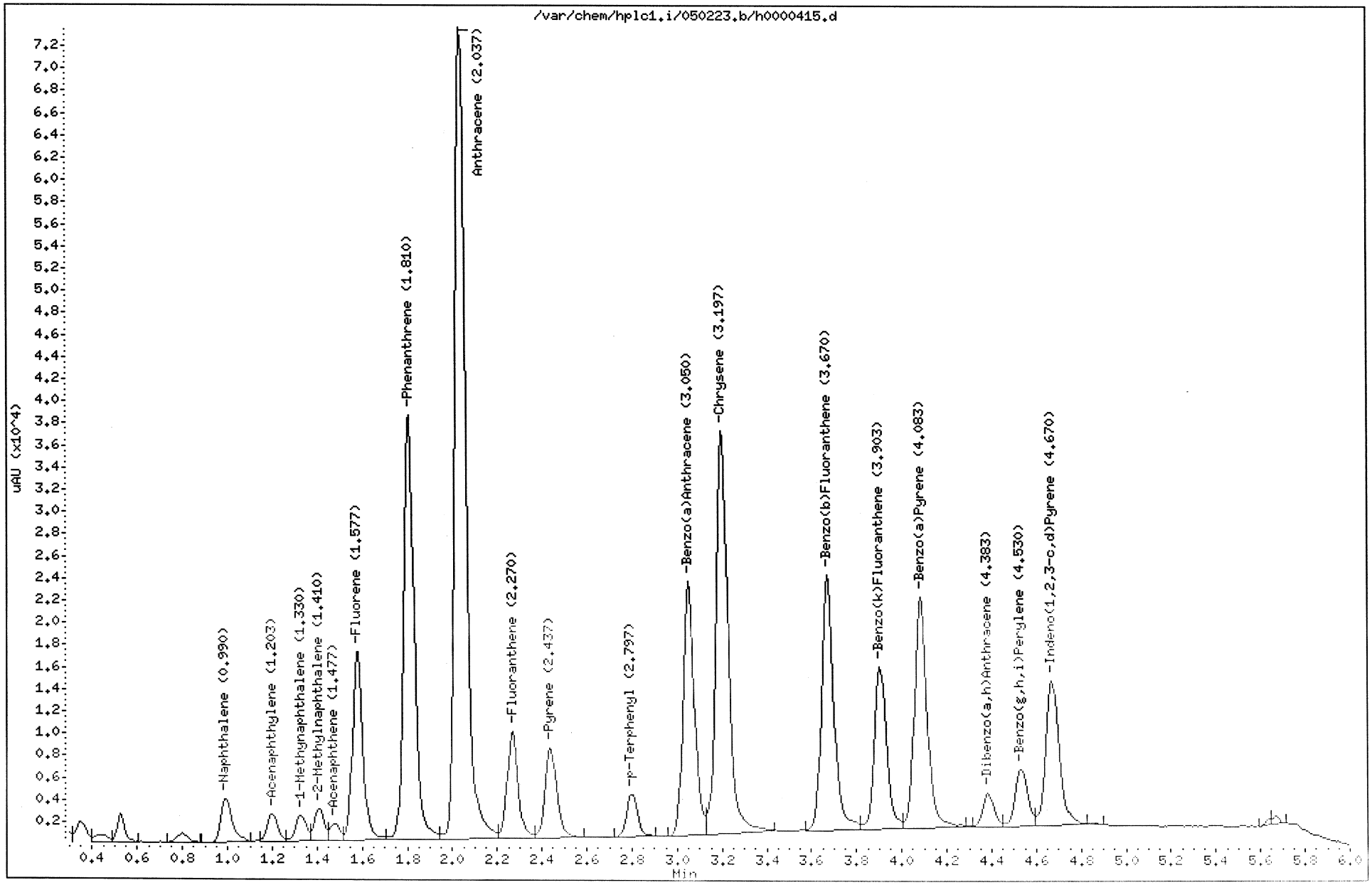
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000415.d
Date : 23-FEB-2005 17:21
Client ID: 224270
Sample Info: 224270
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000233



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
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: 287770 Analytical Batch: 288019

Sample ID: MB224440
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224440
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1039
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 050225/H0000437

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	33.3	U	9.06	33.3
91-57-6	2-Methylnaphthalene	33.3	U	10.1	33.3
83-32-9	Acenaphthene	33.3	U	9.72	33.3
208-96-8	Acenaphthylene	33.3	U	3.72	33.3
120-12-7	Anthracene	3.30	U	0.471	3.30
56-55-3	Benzo(a)anthracene	3.30	U	1.19	3.30
50-32-8	Benzo(a)pyrene	3.30	U	1.11	3.30
205-99-2	Benzo(b)fluoranthene	3.30	U	0.720	3.30
191-24-2	Benzo(g,h,i)perylene	3.30	U	0.370	3.30
207-08-9	Benzo(k)fluoranthene	3.30	U	0.845	3.30
218-01-9	Chrysene	3.30	U	0.943	3.30
53-70-3	Dibenz(a,h)anthracene	3.30	U	0.882	3.30
206-44-0	Fluoranthene	3.30	U	0.916	3.30
86-73-7	Fluorene	16.7	U	3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	8.30	U	0.911	8.30
91-20-3	Naphthalene	8.30	U	3.08	8.30
85-01-8	Phenanthrene	3.30	U	0.900	3.30
129-00-0	Pyrene	3.30	U	0.476	3.30

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000437.d
Lab Smp Id: 224440 Client Smp ID: 224440
Inj Date : 25-FEB-2005 10:39
Operator : rlw Inst ID: hplc1.i
Smp Info : 224440
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 12:13 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

Cpnd Variable Local Compound Variable

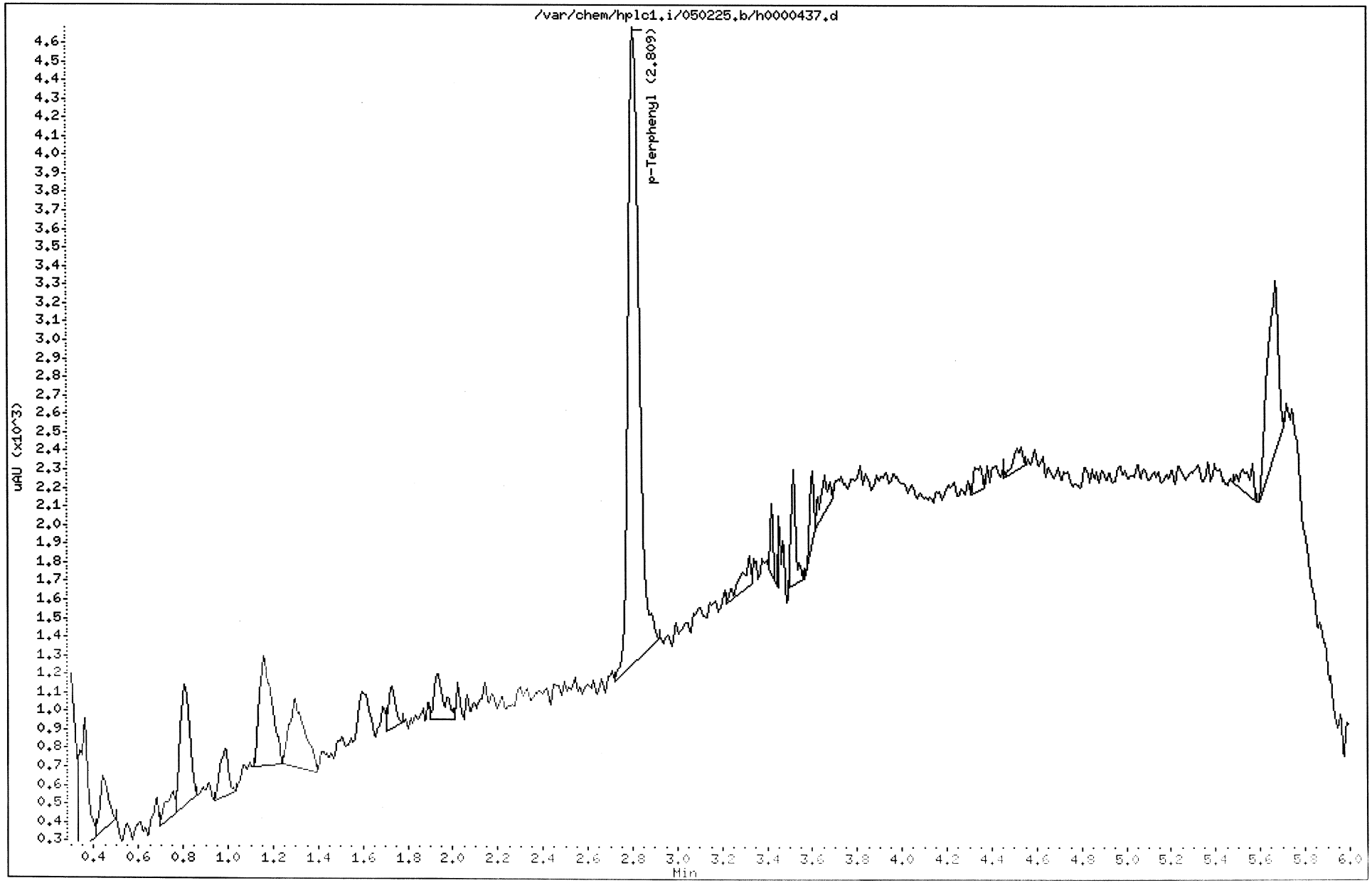
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
$ 11 p-Terphenyl	2.809	2.929	-0.120	11471	1.58579	52.9

Data File: /var/chem/hplc1.i/050225.b/h0000437.d
Date : 25-FEB-2005 10:39
Client ID: 224440
Sample Info: 224440
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000236



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
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: 287770 Analytical Batch: 288019

Sample ID: LCS224441
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224441
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1046
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 050225/H0000438

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	273		9.06	33.3
91-57-6	2-Methylnaphthalene	148		10.1	33.3
83-32-9	Acenaphthene	174		9.72	33.3
208-96-8	Acenaphthylene	317		3.72	33.3
120-12-7	Anthracene	115		0.471	3.30
56-55-3	Benzo(a)anthracene	135		1.19	3.30
50-32-8	Benzo(a)pyrene	118		1.11	3.30
205-99-2	Benzo(b)fluoranthene	132		0.720	3.30
191-24-2	Benzo(g,h,i)perylene	142		0.370	3.30
207-08-9	Benzo(k)fluoranthene	133		0.845	3.30
218-01-9	Chrysene	141		0.943	3.30
53-70-3	Dibenz(a,h)anthracene	133		0.882	3.30
206-44-0	Fluoranthene	137		0.916	3.30
86-73-7	Fluorene	148		3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	137		0.911	8.30
91-20-3	Naphthalene	211		3.08	8.30
85-01-8	Phenanthrene	137		0.900	3.30
129-00-0	Pyrene	135		0.476	3.30

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000438.d
Lab Smp Id: 224441 Client Smp ID: 224441
Inj Date : 25-FEB-2005 10:46
Operator : rlw Inst ID: hplc1.i
Smp Info : 224441
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 12:11 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	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/Kg)
1 Naphthalene	0.988	0.986	0.002	17140	6.32285	211
2 Acenaphthylene	1.188	1.199	-0.011	17152	9.50270	317(R)
3 1-Methynaphthalene	1.322	1.312	0.010	11882	8.19956	273(R)
4 2-Methylnaphthalene	1.402	1.399	0.003	8871	4.43320	148
5 Acenaphthene	1.482	1.472	0.010	4904	5.21188	174
6 Fluorene	1.575	1.566	0.009	50413	4.43987	148
7 Phenanthrene	1.795	1.792	0.003	110873	4.12497	137
8 Anthracene	2.022	2.019	0.003	195621	3.46038	115
9 Fluoranthene	2.255	2.246	0.009	28067	4.11185	137
10 Pyrene	2.422	2.413	0.009	24818	4.06352	135
$ 11 p-Terphenyl	2.788	2.852	-0.064	10818	1.49557	49.9
12 Benzo(a)Anthracene	3.042	3.019	0.023	66328	4.05565	135
13 Chrysene	3.188	3.166	0.022	115420	4.22879	141

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
14 Benzo(b)Fluoranthene	3.675	3.646	0.029	80887	3.96948	132
15 Benzo(k)Fluoranthene	3.922	3.886	0.036	50023	3.97923	133
16 Benzo(a)Pyrene	4.108	4.072	0.036	62265	3.53409	118
17 Dibenzo(a,h)Anthracene	4.422	4.386	0.036	16647	3.98192	133
18 Benzo(g,h,i)Perylene	4.568	4.539	0.029	28375	4.25345	142
19 Indeno(1,2,3-c,d)Pyrene	4.728	4.686	0.042	57737	4.09626	137

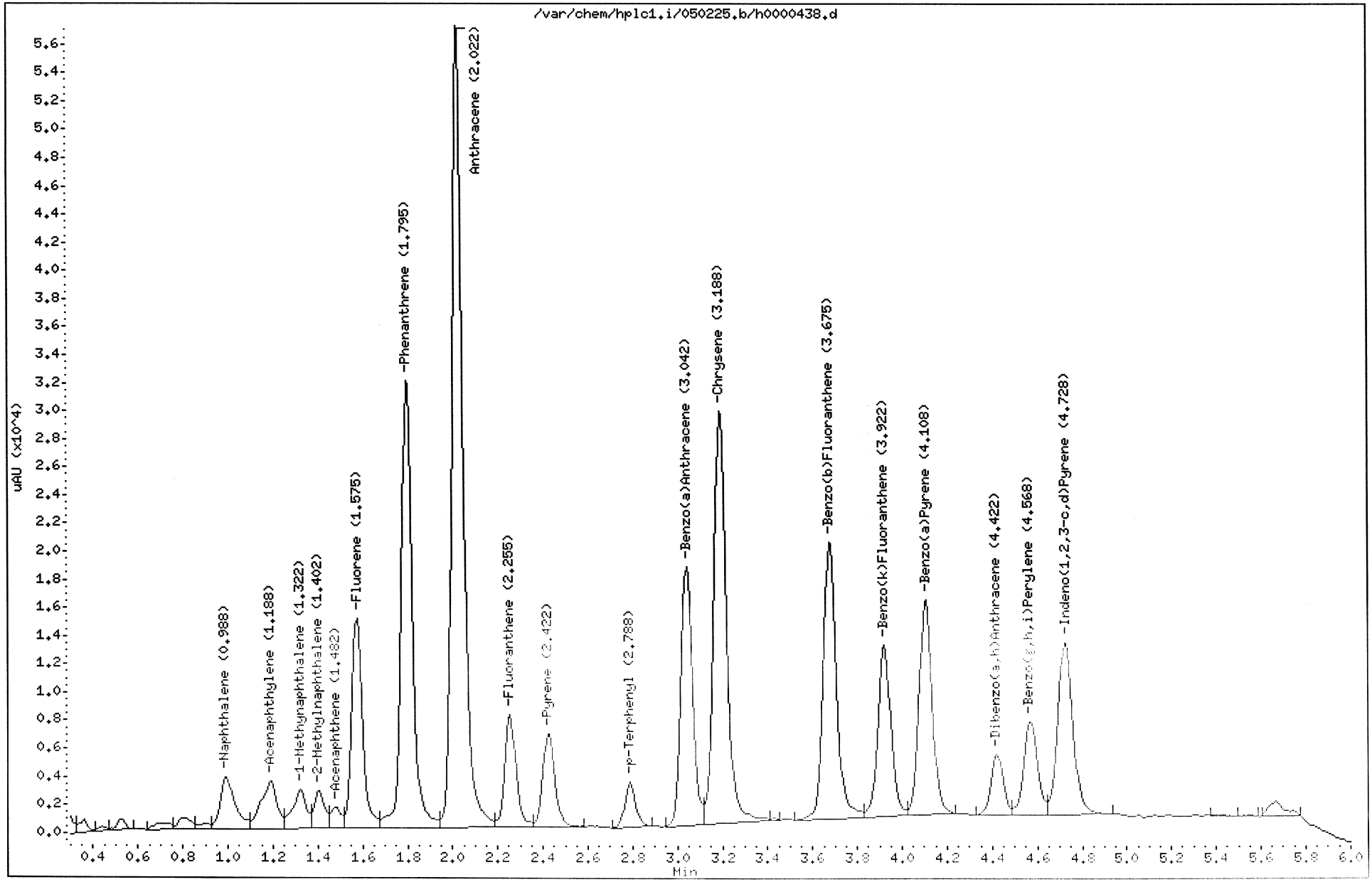
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/hplc1.i/050225.b/h0000438.d
Date : 25-FEB-2005 10:46
Client ID: 224441
Sample Info: 224441
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10

000240



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
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: 287770 Analytical Batch: 288019

Sample ID: LCSD224442
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224442
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1053
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 050225/H0000439

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	269		9.06	33.3
91-57-6	2-Methylnaphthalene	151		10.1	33.3
83-32-9	Acenaphthene	168		9.72	33.3
208-96-8	Acenaphthylene	306		3.72	33.3
120-12-7	Anthracene	114		0.471	3.30
56-55-3	Benzo(a)anthracene	129		1.19	3.30
50-32-8	Benzo(a)pyrene	125		1.11	3.30
205-99-2	Benzo(b)fluoranthene	128		0.720	3.30
191-24-2	Benzo(g,h,i)perylene	144		0.370	3.30
207-08-9	Benzo(k)fluoranthene	132		0.845	3.30
218-01-9	Chrysene	133		0.943	3.30
53-70-3	Dibenz(a,h)anthracene	141		0.882	3.30
206-44-0	Fluoranthene	131		0.916	3.30
86-73-7	Fluorene	145		3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	134		0.911	8.30
91-20-3	Naphthalene	207		3.08	8.30
85-01-8	Phenanthrene	131		0.900	3.30
129-00-0	Pyrene	135		0.476	3.30

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000439.d
Lab Smp Id: 224442 Client Smp ID: 224442
Inj Date : 25-FEB-2005 10:53
Operator : rlw Inst ID: hplc1.i
Smp Info : 224442
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 12:13 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	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/Kg)
1 Naphthalene	1.008	1.009	-0.001	16858	6.21875	207
2 Acenaphthylene	1.208	1.216	-0.008	16558	9.17361	306(R)
3 1-Methynaphthalene	1.342	1.342	0.000	11703	8.07549	269(R)
4 2-Methylnaphthalene	1.428	1.429	-0.001	9060	4.52755	151
5 Acenaphthene	1.502	1.496	0.006	4750	5.04739	168
6 Fluorene	1.602	1.566	0.036	49405	4.35108	145(M)
7 Phenanthrene	1.828	1.792	0.036	105359	3.91983	131(M)
8 Anthracene	2.068	2.019	0.049	194115	3.43374	114(M)
9 Fluoranthene	2.302	2.246	0.056	26843	3.93245	131(M)
10 Pyrene	2.468	2.422	0.046	24814	4.06280	135
$ 11 p-Terphenyl	2.835	2.929	-0.094	10675	1.47575	49.2
12 Benzo(a)Anthracene	3.088	3.019	0.069	63315	3.87142	129
13 Chrysene	3.242	3.109	0.133	108896	3.98976	133

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
14 Benzo(b)Fluoranthene	3.715	3.743	-0.028	78398	3.84732	128
15 Benzo(k)Fluoranthene	3.955	3.982	-0.027	49963	3.97438	132
16 Benzo(a)Pyrene	4.128	4.156	-0.028	65962	3.74392	125
17 Dibenzo(a,h)Anthracene	4.428	4.376	0.052	17623	4.21537	141
18 Benzo(g,h,i)Perylene	4.575	4.602	-0.027	28787	4.31512	144
19 Indeno(1,2,3-c,d)Pyrene	4.722	4.749	-0.027	56692	4.02209	134

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000439.d

Date : 25-FEB-2005 10:53

Client ID: 224442

Sample Info: 224442

Volume Injected (uL): 10.0

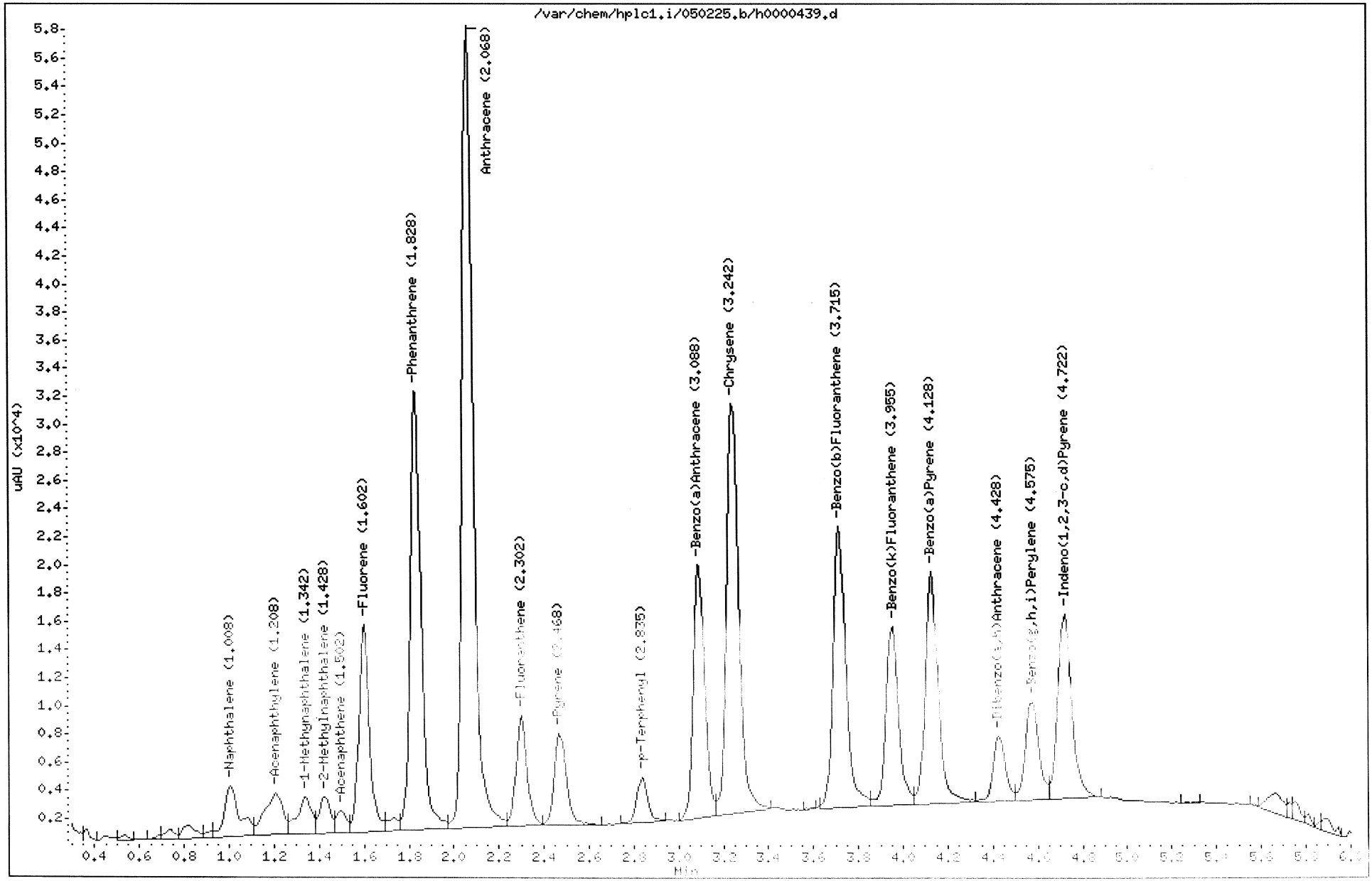
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw

Column diameter: 2.10

000244



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
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: 287770 Analytical Batch: 288019

Sample ID: 05283SCS050217MS
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224443
Date Collected: 02/17/05 Time: 1500
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1107
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 050225/H0000441

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	101		9.26	34.0
91-57-6	2-Methylnaphthalene	87.5		10.3	34.0
83-32-9	Acenaphthene	79.3		9.94	34.0
208-96-8	Acenaphthylene	104		3.80	34.0
120-12-7	Anthracene	108		0.481	3.37
56-55-3	Benzo(a)anthracene	129		1.22	3.37
50-32-8	Benzo(a)pyrene	125		1.13	3.37
205-99-2	Benzo(b)fluoranthene	118		0.736	3.37
191-24-2	Benzo(g,h,i)perylene	151		0.378	3.37
207-08-9	Benzo(k)fluoranthene	109		0.864	3.37
218-01-9	Chrysene	129		0.964	3.37
53-70-3	Dibenz(a,h)anthracene	237		0.902	3.37
206-44-0	Fluoranthene	124		0.936	3.37
86-73-7	Fluorene	118		3.59	17.1
193-39-5	Indeno(1,2,3-cd)pyrene	111		0.931	8.48
91-20-3	Naphthalene	104		3.15	8.48
85-01-8	Phenanthrene	124		0.920	3.37
129-00-0	Pyrene	141		0.487	3.37

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000441.d
Lab Smp Id: 224443 Client Smp ID: 224443
Inj Date : 25-FEB-2005 11:07
Operator : rlw Inst ID: hplc1.i
Smp Info : 224443
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 14:22 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.d
Als bottle: 1 QC Sample: MS
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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	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/Kg)
1 Naphthalene	1.004	0.994	0.010	8309	3.06511	102(M)
2 Acenaphthylene	1.218	1.208	0.010	5525	3.06123	102(M)
3 1-Methynaphthalene	1.344	1.334	0.010	4302	2.96881	99.0(M)
4 2-Methylnaphthalene	1.431	1.414	0.017	5140	2.56861	85.6(M)
5 Acenaphthene	1.504	1.488	0.016	2191	2.32839	77.6(M)
6 Fluorene	1.604	1.587	0.017	39052	3.43933	115(M)
7 Phenanthrene	1.837	1.821	0.016	97568	3.62996	121(M)
8 Anthracene	2.078	2.054	0.024	179861	3.18160	106(M)
9 Fluoranthene	2.317	2.294	0.023	24815	3.63550	121(M)
10 Pyrene	2.491	2.467	0.024	25343	4.14948	138(M)
$ 11 p-Terphenyl	2.864	2.921	-0.057	6734	0.93101	31.0(M)
12 Benzo(a)Anthracene	3.124	3.101	0.023	61950	3.78800	126(M)
13 Chrysene	3.277	3.261	0.016	103274	3.78381	126(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
14 Benzo(b)Fluoranthene	3.757	3.748	0.009	70012	3.43581	115(M)
15 Benzo(k)Fluoranthene	3.998	4.001	-0.003	40532	3.22423	107(M)
16 Benzo(a)Pyrene	4.171	4.181	-0.010	64462	3.65881	122(M)
17 Dibenzo(a,h)Anthracene	4.471	4.494	-0.023	29055	6.94992	232(M)
18 Benzo(g,h,i)Perylene	4.611	4.641	-0.030	29640	4.44301	148(M)
19 Indeno(1,2,3-c,d)Pyrene	4.764	4.808	-0.044	46145	3.27383	109(M)

QC Flag Legend

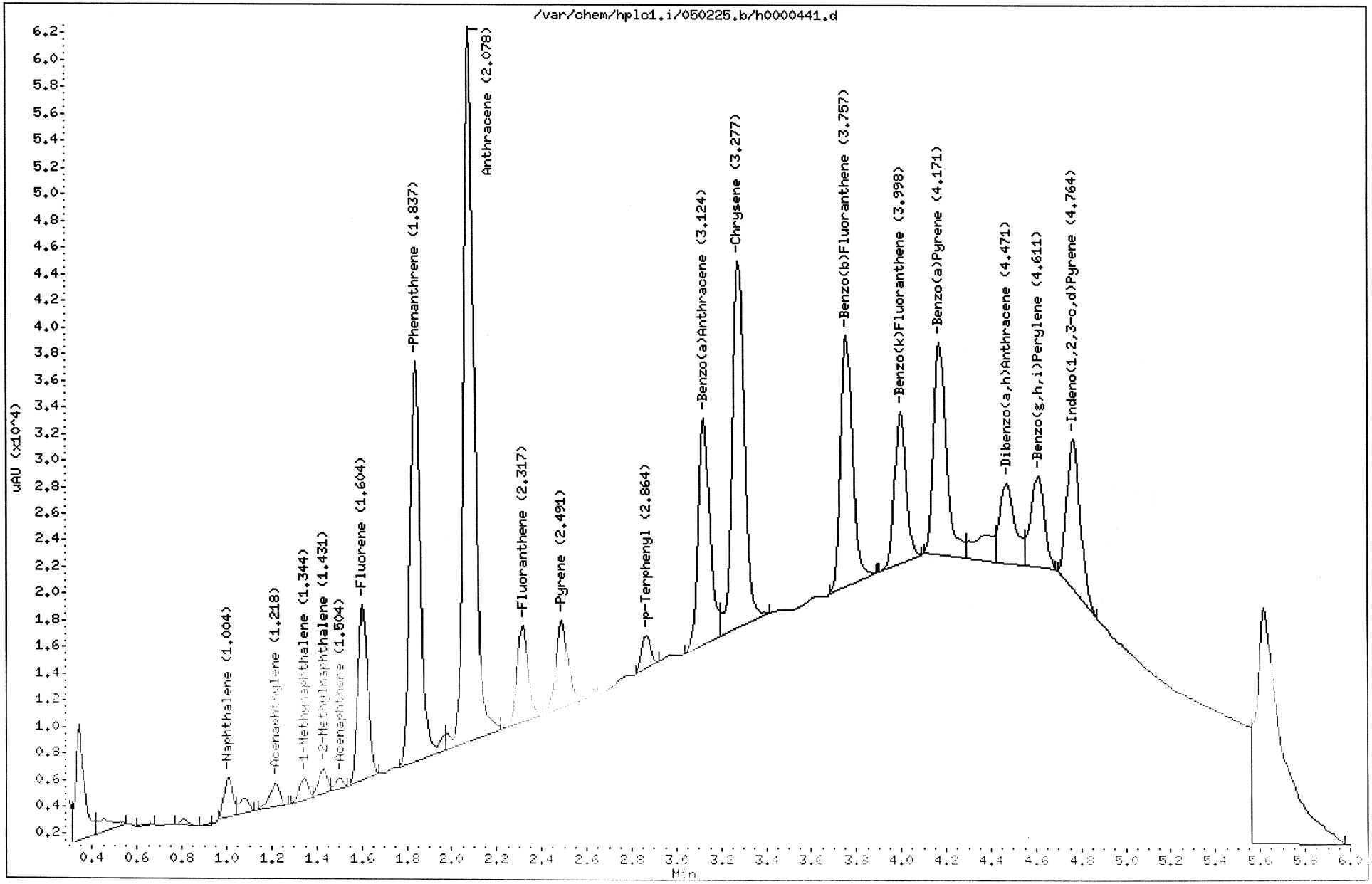
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000441.d
Date : 25-FEB-2005 11:07
Client ID: 224443
Sample Info: 224443
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000248



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
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: 287770 Analytical Batch: 288019

Sample ID: 05283SCS050217MSD
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224444
Date Collected: 02/17/05 Time: 1500
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 02/25/05 Time: 1114
Dilution Factor: 1 Analyst: RLW
Prep Method: SW-846 8310
Analytical Method: SW-846 8310
Sulfur Cleanup: (Y/N) N Instrument ID: HPLC 1

CONCENTRATION UNITS: ug/kg

Lab File ID: 050225/H0000442

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
90-12-0	1-Methylnaphthalene	127		9.26	34.0
91-57-6	2-Methylnaphthalene	102		10.3	34.0
83-32-9	Acenaphthene	66.1		9.94	34.0
208-96-8	Acenaphthylene	188		3.80	34.0
120-12-7	Anthracene	114		0.481	3.37
56-55-3	Benzo(a)anthracene	140		1.22	3.37
50-32-8	Benzo(a)pyrene	116		1.13	3.37
205-99-2	Benzo(b)fluoranthene	124		0.736	3.37
191-24-2	Benzo(g,h,i)perylene	230		0.378	3.37
207-08-9	Benzo(k)fluoranthene	122		0.864	3.37
218-01-9	Chrysene	167		0.964	3.37
53-70-3	Dibenz(a,h)anthracene	206		0.902	3.37
206-44-0	Fluoranthene	131		0.936	3.37
86-73-7	Fluorene	138		3.59	17.1
193-39-5	Indeno(1,2,3-cd)pyrene	156		0.931	8.48
91-20-3	Naphthalene	176		3.15	8.48
85-01-8	Phenanthrene	137		0.920	3.37
129-00-0	Pyrene	142		0.487	3.37

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000442.d
Lab Smp Id: 214444 Client Smp ID: 214444
Inj Date : 25-FEB-2005 11:14
Operator : rlw Inst ID: hplc1.i
Smp Info : 214444
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 14:22 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.d
Als bottle: 1 QC Sample: MSD
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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	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/Kg)
1 Naphthalene	0.994	0.994	0.000	14003	5.16593	172(M)
2 Acenaphthylene	1.194	1.208	-0.014	9948	5.51192	184(M)
3 1-Methylnaphthalene	1.327	1.334	-0.007	5399	3.72564	124(M)
4 2-Methylnaphthalene	1.408	1.414	-0.006	5959	2.97809	99.3(M)
5 Acenaphthene	1.481	1.488	-0.007	1826	1.94075	64.7(RM)
6 Fluorene	1.581	1.587	-0.006	45917	4.04396	135(M)
7 Phenanthrene	1.801	1.821	-0.020	108088	4.02135	134(M)
8 Anthracene	2.034	2.054	-0.020	189341	3.34930	112(M)
9 Fluoranthene	2.261	2.294	-0.033	26273	3.84903	128(M)
10 Pyrene	2.434	2.467	-0.033	25508	4.17653	139(M)
$ 11 p-Terphenyl	2.794	2.921	-0.127	9570	1.32304	44.1(M)
12 Benzo(a)Anthracene	3.041	3.101	-0.060	67121	4.10415	137(M)
13 Chrysene	3.188	3.261	-0.073	133697	4.89844	163(M)

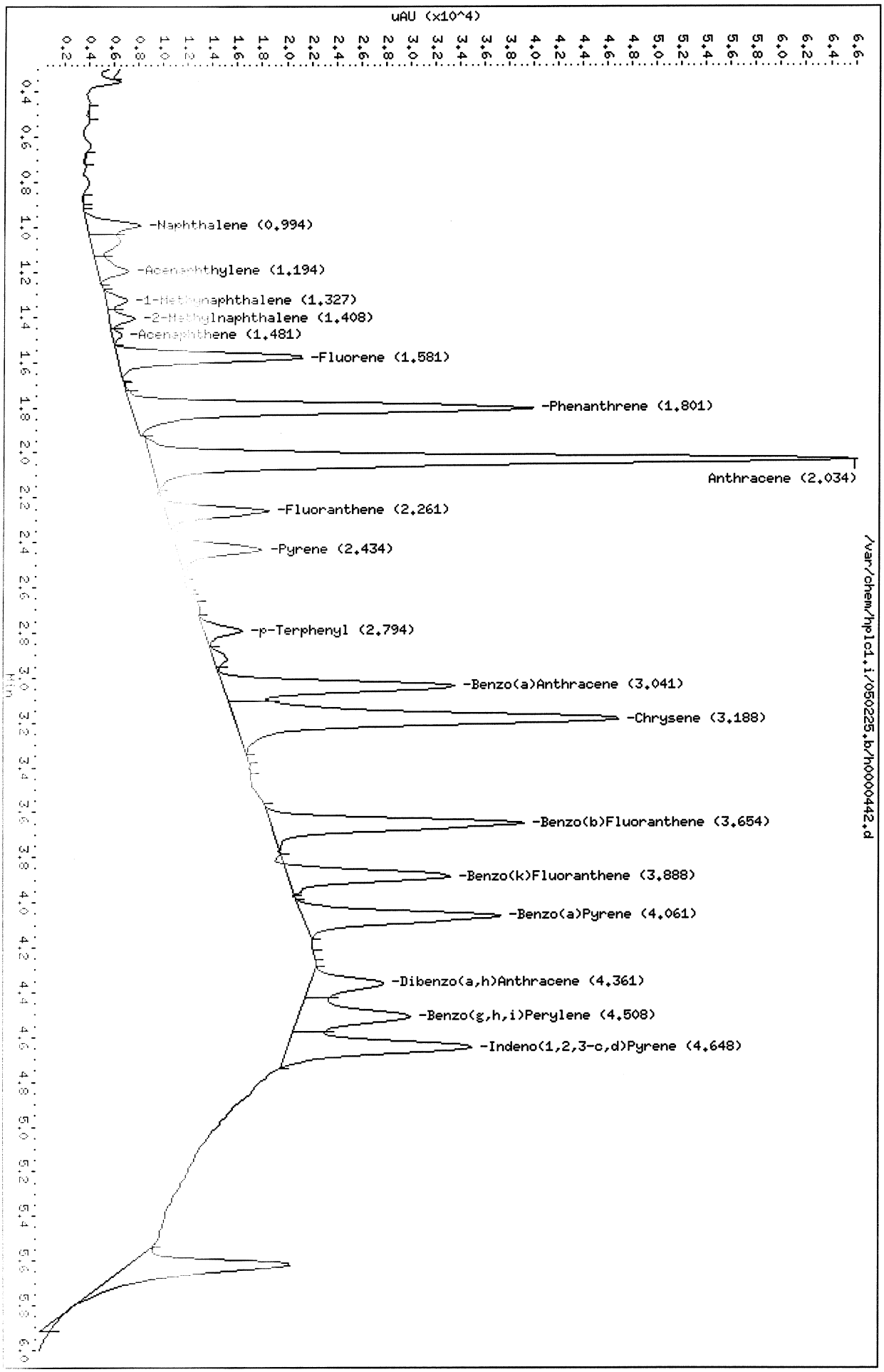
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
14 Benzo(b)Fluoranthene	3.654	3.748	-0.094	74022	3.63257	121(M)
15 Benzo(k)Fluoranthene	3.888	4.001	-0.113	44840	3.56690	119(M)
16 Benzo(a)Pyrene	4.061	4.181	-0.120	59539	3.37937	113(M)
17 Dibenzo(a,h)Anthracene	4.361	4.494	-0.133	25306	6.05322	202(M)
18 Benzo(g,h,i)Perylene	4.508	4.641	-0.133	44990	6.74404	225(M)
19 Indeno(1,2,3-c,d)Pyrene	4.648	4.808	-0.160	64868	4.60218	153(M)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000442.d
Date : 25-FEB-2005 11:14
Client ID: 214444
Sample Info: 214444
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



000252

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

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. 05283EB1W050217	80	40	140														0
2. 05283EB2W050217	86	40	140														0
3. MB224268	76	40	140														0
4. LCS224269	11	40	140	*													1
5. LCSD224270	92	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

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

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)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283SCS050217	65								0
2. 05283SCS050217MSD	66								0
3. MB224440	79								0
4. LCS224441	75								0
5. LCSD224442	74								0
6. 05283SCS050217MS	47								0

CONTROL LIMITS

SMC 1 : p-Terphenyl 40 140

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-NG-24S-Q1-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287722 Analytical Batch: 287996

SAMPLE NO : 20502180111

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/L	5	0	3.96	79		40 - 140
2-Methylnaphthalene	ug/L	5	0	3.53	71		40 - 140
Acenaphthene	ug/L	5	0	3.48	70		40 - 140
Acenaphthylene	ug/L	5	0	4.06	81		40 - 140
Anthracene	ug/L	5	0	4.04	81		40 - 140
Benzo(a)anthracene	ug/L	5	0	4.5	90		40 - 140
Benzo(a)pyrene	ug/L	5	0	4.29	86		40 - 140
Benzo(b)fluoranthene	ug/L	5	0	4.29	86		40 - 140
Benzo(g,h,i)perylene	ug/L	5	0	3.51	70		40 - 140
Benzo(k)fluoranthene	ug/L	5	0	4.25	85		40 - 140
Chrysene	ug/L	5	0	4.59	92		40 - 140
Dibenz(a,h)anthracene	ug/L	5	0	2.89	58		40 - 140
Fluoranthene	ug/L	5	0	4.19	84		40 - 140
Fluorene	ug/L	5	0	4.42	88		40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	5	0	4.04	81		40 - 140
Naphthalene	ug/L	5	0	4.65	93		40 - 140
Phenanthrene	ug/L	5	0	4.35	87		40 - 140
Pyrene	ug/L	5	0	4.42	88		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-NG-24S-Q1-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287722 Analytical Batch: 287996

SAMPLE NO : ***20502180112***

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/L	5	4.73	95		18		40 - 140	0 - 30
2-Methylnaphthalene	ug/L	5	4.14	83		16		40 - 140	0 - 30
Acenaphthene	ug/L	5	4.43	89		24		40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.2	84		3		40 - 140	0 - 30
Anthracene	ug/L	5	4.07	81		.7		40 - 140	0 - 30
Benzo(a)anthracene	ug/L	5	4.62	92		3		40 - 140	0 - 30
Benzo(a)pyrene	ug/L	5	4.48	90		4		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	5	4.53	91		5		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	5	4.23	85		19		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	5	4.44	89		4		40 - 140	0 - 30
Chrysene	ug/L	5	4.69	94		2		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	5	3.6	72		22		40 - 140	0 - 30
Fluoranthene	ug/L	5	4.68	94		11		40 - 140	0 - 30
Fluorene	ug/L	5	4.53	91		2		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	5	4.12	82		2		40 - 140	0 - 30
Naphthalene	ug/L	5	4.54	91		2		40 - 140	0 - 30
Phenanthrene	ug/L	5	4.42	88		2		40 - 140	0 - 30
Pyrene	ug/L	5	4.76	95		7		40 - 140	0 - 30

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.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287722 Analytical Batch: 287996

SAMPLE NO : 224269

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/L	5	0	.452	9	*	40 - 140
2-Methylnaphthalene	ug/L	5	0	.318	6	*	40 - 140
Acenaphthene	ug/L	5	0	0	0	*	40 - 140
Acenaphthylene	ug/L	5	0	.483	10	*	40 - 140
Anthracene	ug/L	5	0	.45	9	*	40 - 140
Benzo(a)anthracene	ug/L	5	0	.483	10	*	40 - 140
Benzo(a)pyrene	ug/L	5	0	.466	9	*	40 - 140
Benzo(b)fluoranthene	ug/L	5	0	.465	9	*	40 - 140
Benzo(g,h,i)perylene	ug/L	5	0	.679	14	*	40 - 140
Benzo(k)fluoranthene	ug/L	5	0	.442	9	*	40 - 140
Chrysene	ug/L	5	0	.513	10	*	40 - 140
Dibenz(a,h)anthracene	ug/L	5	0	.386	8	*	40 - 140
Fluoranthene	ug/L	5	0	.52	10	*	40 - 140
Fluorene	ug/L	5	0	.48	10	*	40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	5	0	.433	9	*	40 - 140
Naphthalene	ug/L	5	0	.699	14	*	40 - 140
Phenanthrene	ug/L	5	0	.47	9	*	40 - 140
Pyrene	ug/L	5	0	.506	10	*	40 - 140

RPD : 18 out of 18 outside limits

Spike Recovery: 18 out of 36 outside limits

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287722 Analytical Batch: 287996

SAMPLE NO : 224270

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/L	5	5.17	103		168	*	40 - 140	0 - 30
2-Methylnaphthalene	ug/L	5	4.38	88		173	*	40 - 140	0 - 30
Acenaphthene	ug/L	5	4.68	94		200	*	40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.45	89		161	*	40 - 140	0 - 30
Anthracene	ug/L	5	4.32	86		162	*	40 - 140	0 - 30
Benzo(a)anthracene	ug/L	5	4.91	98		164	*	40 - 140	0 - 30
Benzo(a)pyrene	ug/L	5	4.69	94		164	*	40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	5	4.33	87		161	*	40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	5	3.1	62		128	*	40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	5	4.44	89		164	*	40 - 140	0 - 30
Chrysene	ug/L	5	5.05	101		163	*	40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	5	2.58	52		148	*	40 - 140	0 - 30
Fluoranthene	ug/L	5	4.88	98		161	*	40 - 140	0 - 30
Fluorene	ug/L	5	4.85	97		164	*	40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	5	3.95	79		160	*	40 - 140	0 - 30
Naphthalene	ug/L	5	5.05	101		151	*	40 - 140	0 - 30
Phenanthrene	ug/L	5	4.68	94		163	*	40 - 140	0 - 30
Pyrene	ug/L	5	4.95	99		163	*	40 - 140	0 - 30

RPD : 18 out of 18 outside limits

Spike Recovery: 18 out of 36 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283SCS050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287770 Analytical Batch: 288019

Spike HSN : 224443

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/kg	171	0	101	59		40 - 140
2-Methylnaphthalene	ug/kg	171	0	87.5	51		40 - 140
Acenaphthene	ug/kg	171	0	79.3	47		40 - 140
Acenaphthylene	ug/kg	171	0	104	61		40 - 140
Anthracene	ug/kg	171	0	108	64		40 - 140
Benzo(a)anthracene	ug/kg	171	0	129	76		40 - 140
Benzo(a)pyrene	ug/kg	171	0	125	73		40 - 140
Benzo(b)fluoranthene	ug/kg	171	0	118	69		40 - 140
Benzo(g,h,i)perylene	ug/kg	171	0	151	89		40 - 140
Benzo(k)fluoranthene	ug/kg	171	0	109	64		40 - 140
Chrysene	ug/kg	171	0	129	76		40 - 140
Dibenz(a,h)anthracene	ug/kg	171	0	237	139		40 - 140
Fluoranthene	ug/kg	171	0	124	73		40 - 140
Fluorene	ug/kg	171	0	118	69		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	171	0	111	65		40 - 140
Naphthalene	ug/kg	171	0	104	61		40 - 140
Phenanthrene	ug/kg	171	0	124	73		40 - 140
Pyrene	ug/kg	171	0	141	83		40 - 140

RPD : 4 out of 18 outside limits

Spike Recovery: 1 out of 36 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283SCS050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287770 Analytical Batch: 288019

Spike Dupe HSN : 224444

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	171	127	74		22		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	171	102	60		15		40 - 140	0 - 30
Acenaphthene	ug/kg	171	66.1	39	*	18		40 - 140	0 - 30
Acenaphthylene	ug/kg	171	188	110		57	*	40 - 140	0 - 30
Anthracene	ug/kg	171	114	67		6		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	171	140	82		8		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	171	116	68		8		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	171	124	73		5		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	171	230	135		41	*	40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	171	122	71		11		40 - 140	0 - 30
Chrysene	ug/kg	171	167	98		26		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	171	206	121		14		40 - 140	0 - 30
Fluoranthene	ug/kg	171	131	77		6		40 - 140	0 - 30
Fluorene	ug/kg	171	138	81		16		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	171	156	92		34	*	40 - 140	0 - 30
Naphthalene	ug/kg	171	176	103		51	*	40 - 140	0 - 30
Phenanthrene	ug/kg	171	137	80		10		40 - 140	0 - 30
Pyrene	ug/kg	171	142	83		.7		40 - 140	0 - 30

RPD : 4 out of 18 outside limits

Spike Recovery: 1 out of 36 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287770 Analytical Batch: 288019

Spike HSN : 224441

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
1-Methylnaphthalene	ug/kg	167	0	273	164	*	40 - 140
2-Methylnaphthalene	ug/kg	167	0	148	89		40 - 140
Acenaphthene	ug/kg	167	0	174	104		40 - 140
Acenaphthylene	ug/kg	167	0	317	190	*	40 - 140
Anthracene	ug/kg	167	0	115	69		40 - 140
Benzo(a)anthracene	ug/kg	167	0	135	81		40 - 140
Benzo(a)pyrene	ug/kg	167	0	118	71		40 - 140
Benzo(b)fluoranthene	ug/kg	167	0	132	79		40 - 140
Benzo(g,h,i)perylene	ug/kg	167	0	142	85		40 - 140
Benzo(k)fluoranthene	ug/kg	167	0	133	80		40 - 140
Chrysene	ug/kg	167	0	141	85		40 - 140
Dibenz(a,h)anthracene	ug/kg	167	0	133	80		40 - 140
Fluoranthene	ug/kg	167	0	137	82		40 - 140
Fluorene	ug/kg	167	0	148	89		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	167	0	137	82		40 - 140
Naphthalene	ug/kg	167	0	211	127		40 - 140
Phenanthrene	ug/kg	167	0	137	82		40 - 140
Pyrene	ug/kg	167	0	135	81		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 4 out of 36 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: SW-846 8310

Prep Batch: 287770 Analytical Batch: 288019

Spike Dupe HSN : 224442

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	167	269	161	*	1		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	167	151	91		2		40 - 140	0 - 30
Acenaphthene	ug/kg	167	168	101		4		40 - 140	0 - 30
Acenaphthylene	ug/kg	167	306	184	*	4		40 - 140	0 - 30
Anthracene	ug/kg	167	114	68		.9		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	167	129	77		5		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	167	125	75		6		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	167	128	77		3		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	167	144	86		1		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	167	132	79		.8		40 - 140	0 - 30
Chrysene	ug/kg	167	133	80		6		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	167	141	85		6		40 - 140	0 - 30
Fluoranthene	ug/kg	167	131	79		4		40 - 140	0 - 30
Fluorene	ug/kg	167	145	87		2		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	167	134	80		2		40 - 140	0 - 30
Naphthalene	ug/kg	167	207	124		2		40 - 140	0 - 30
Phenanthrene	ug/kg	167	131	79		4		40 - 140	0 - 30
Pyrene	ug/kg	167	135	81		0		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 4 out of 36 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224268

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224268

SAS No.: SDG No.: 205021805

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/18/05

Date Analyzed (1): 02/23/05 Time (1): 1707

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: 287722 Analytical Batch: 287996

Lab File ID: 050223/H000041

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224269	224269	02/23/05	1714		
2.	LCSD224270	224270	02/23/05	1721		
3.	05283EB1W050217	20502180502	02/23/05	1859		
4.	05283EB2W050217	20502180503	02/23/05	1913		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224440

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224440

SAS No.: SDG No.: 205021805

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 02/21/05

Date Analyzed (1): 02/25/05 Time (1): 1039

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: 287770 Analytical Batch: 288019

Lab File ID: 050225/H000043

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224441	224441	02/25/05	1046		
2.	LCSD224442	224442	02/25/05	1053		
3.	05283SCS050217	20502180501	02/25/05	1100		
4.	05283SCS050217MS	224443	02/25/05	1107		
5.	05283SCS050217MSD	224444	02/25/05	1114		

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050223.b/flpnauv.m
Cal Date : 25-Feb-2005 09:35 rlw
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc1.i/041007.b/h0008223.d
Level 2: /var/chem/hplc1.i/041007.b/h0008224.d
Level 3: /var/chem/hplc1.i/041007.b/h0008225.d
Level 4: /var/chem/hplc1.i/041007.b/h0008226.d
Level 5: /var/chem/hplc1.i/041007.b/h0008227.d
Level 6: /var/chem/hplc1.i/041007.b/h0008228.d
Level 7: /var/chem/hplc1.i/041007.b/h0008229.d
Level 8: /var/chem/hplc1.i/041007.b/h0008230.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	10.000 Level 7	20.000 Level 8	___ RRF	% RSD
1 Naphthalene	+++++	2844	2936	2870	2836	2351	2599	2540	2711	7.979
2 Acenaphthylene	+++++	+++++	+++++	2006	2001	1571	1748	1699	1805	10.652
3 1-Methynaphthalene	+++++	+++++	+++++	1490	1540	1329	1454	1433	1449	5.411
4 2-Methylnaphthalene	+++++	+++++	1888	1910	2116	1954	2084	2054	2001	4.809
5 Acenaphthene	+++++	+++++	+++++	901	1025	861	984	934	941	6.912
6 Fluorene	+++++	+++++	10994	11392	11684	11255	11499	11304	11355	2.058
7 Phenanthrene	26540	27128	25354	27948	27711	26767	27072	26509	26879	2.991

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050223.b/flpnauv.m
Cal Date : 25-Feb-2005 09:35 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	59260	55860	55392	60023	58325	56587		
	55280	51527					56532	4.785
9 Fluoranthene	6490	5688	6476	7693	7406	6885		
	7117	6853					6826	9.111
10 Pyrene	6580	5876	5008	6390	6865	6015		
	6210	5918					6108	9.167
12 Benzo(a)Anthracene	15930	15676	16226	16966	16552	16503		
	16562	16421					16354	2.467
13 Chrysene	28000	29716	25970	27349	27093	26839		
	26894	26490					27294	4.194
14 Benzo(b)Fluoranthene	19520	17904	22182	23192	20300	20102		
	20044	19774					20377	7.997
15 Benzo(k)Fluoranthene	11240	12932	13184	13623	12096	12580		
	12545	12370					12571	5.745
16 Benzo(a)Pyrene	17730	17492	16248	18568	16523	18340		
	18105	17941					17618	4.735
17 Dibenzo(a,h)Anthracene	3790	3760	4456	4802	4336	4272		
	4023	4006					4181	8.477
18 Benzo(g,h,i)Perylene	5250	5780	6924	8101	6876	6953		
	6786	6699					6671	12.742

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/050223.b/flpnauv.m
Cal Date : 25-Feb-2005 09:35 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	+++++	12784	12530	15380	14411	14828		
	14371	14363					14095	7.443
$ 11 p-Terphenyl	+++++	7116	7066	7532	7360	7229		
	7205	7128					7234	2.251

GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008223.d
Lab Smp Id: 8310STD00.1 Client Smp ID: 8310STD00.1
Inj Date : 07-OCT-2004 11:19
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD00.1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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)
6 Fluorene	1.597	1.597	0.000	1351	0.10000	0.119
7 Phenanthrene	1.837	1.837	0.000	2654	0.10000	0.0987
8 Anthracene	2.078	2.078	0.000	5926	0.10000	0.105
9 Fluoranthene	2.311	2.311	0.000	649	0.10000	0.0951
10 Pyrene	2.491	2.491	0.000	658	0.10000	0.108(M)
$ 11 p-Terphenyl	2.951	2.951	0.000	829	0.10000	0.115
12 Benzo(a)Anthracene	3.138	3.138	0.000	1593	0.10000	0.0974
13 Chrysene	3.291	3.291	0.000	2800	0.10000	0.103
14 Benzo(b)Fluoranthene	3.777	3.777	0.000	1952	0.10000	0.0958(M)
15 Benzo(k)Fluoranthene	4.024	4.024	0.000	1124	0.10000	0.0894(M)
16 Benzo(a)Pyrene	4.211	4.211	0.000	1773	0.10000	0.101
17 Dibenzo(a,h)Anthracene	4.537	4.537	0.000	379	0.10000	0.0907(M)
18 Benzo(g,h,i)Perylene	4.671	4.671	0.000	525	0.10000	0.0787(M)
19 Indeno(1,2,3-c,d)Pyrene	4.844	4.844	0.000	1121	0.10000	0.0795

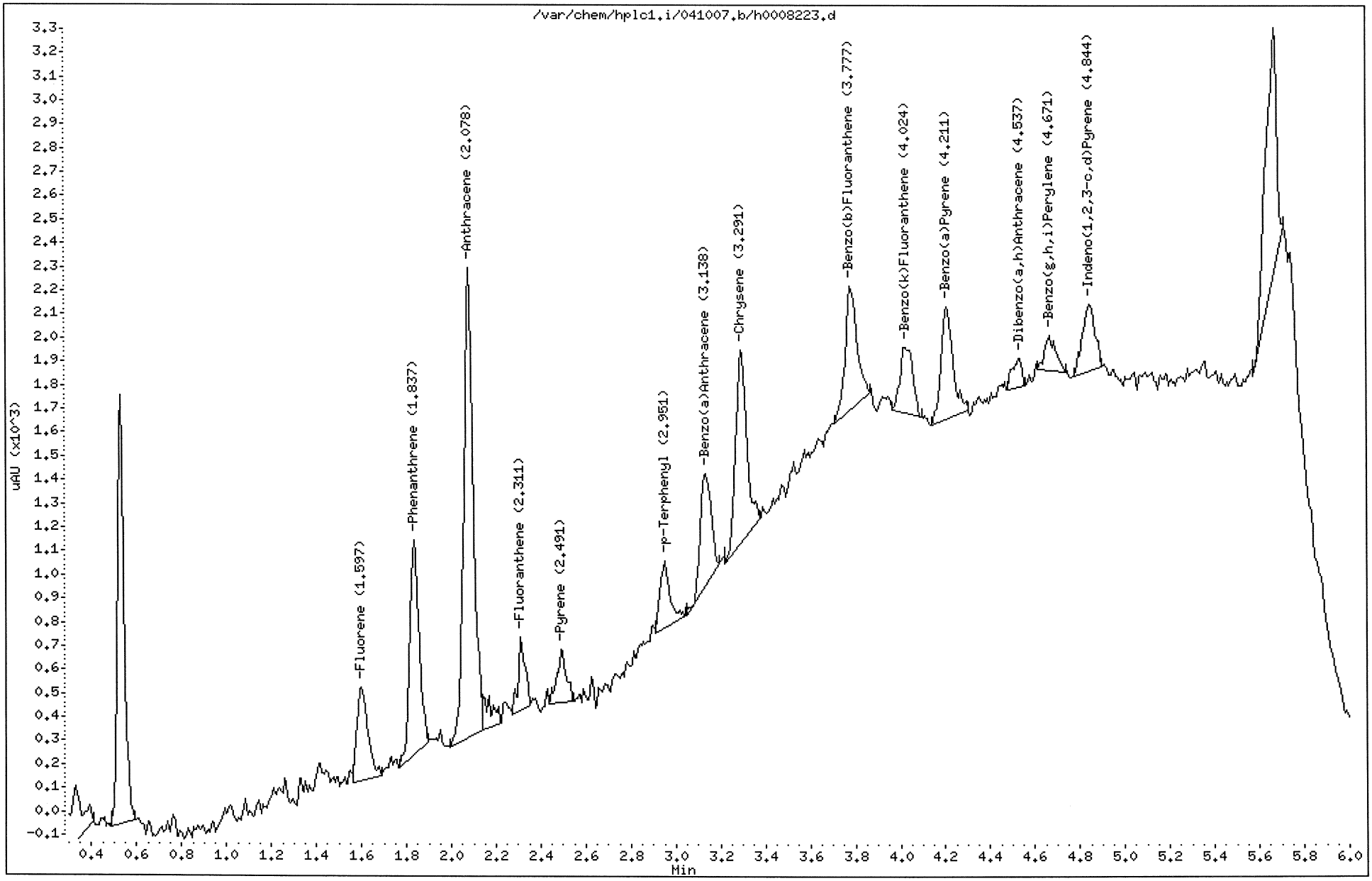
QC Flag Legend

M - Compound response manually integrated.

000270

Data File: /var/chem/hplc1.i/041007.b/h0008223.d
Date : 07-OCT-2004 11:19
Client ID: 8310STD00.1
Sample Info: 8310STD00.1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008224.d
Lab Smp Id: 8310STD0.25 Client Smp ID: 8310STD0.25
Inj Date : 07-OCT-2004 11:26
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD0.25
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:26 Cal File: h0008224.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.000	1.003	-0.003	711	0.25000	0.262
4 2-Methylnaphthalene	1.420	1.423	-0.003	503	0.25000	0.249
6 Fluorene	1.600	1.597	0.003	2704	0.25000	0.238
7 Phenanthrene	1.833	1.837	-0.004	6782	0.25000	0.252
8 Anthracene	2.073	2.078	-0.005	13965	0.25000	0.247
9 Fluoranthene	2.313	2.311	0.002	1422	0.25000	0.208
10 Pyrene	2.493	2.491	0.002	1469	0.25000	0.241
$ 11 p-Terphenyl	2.940	2.951	-0.011	1779	0.25000	0.246
12 Benzo(a)Anthracene	3.127	3.138	-0.011	3919	0.25000	0.240
13 Chrysene	3.280	3.291	-0.011	7429	0.25000	0.272
14 Benzo(b)Fluoranthene	3.773	3.777	-0.004	4476	0.25000	0.220
15 Benzo(k)Fluoranthene	4.020	4.024	-0.004	3233	0.25000	0.257
16 Benzo(a)Pyrene	4.200	4.211	-0.011	4373	0.25000	0.248
17 Dibenzo(a,h)Anthracene	4.513	4.537	-0.024	940	0.25000	0.222

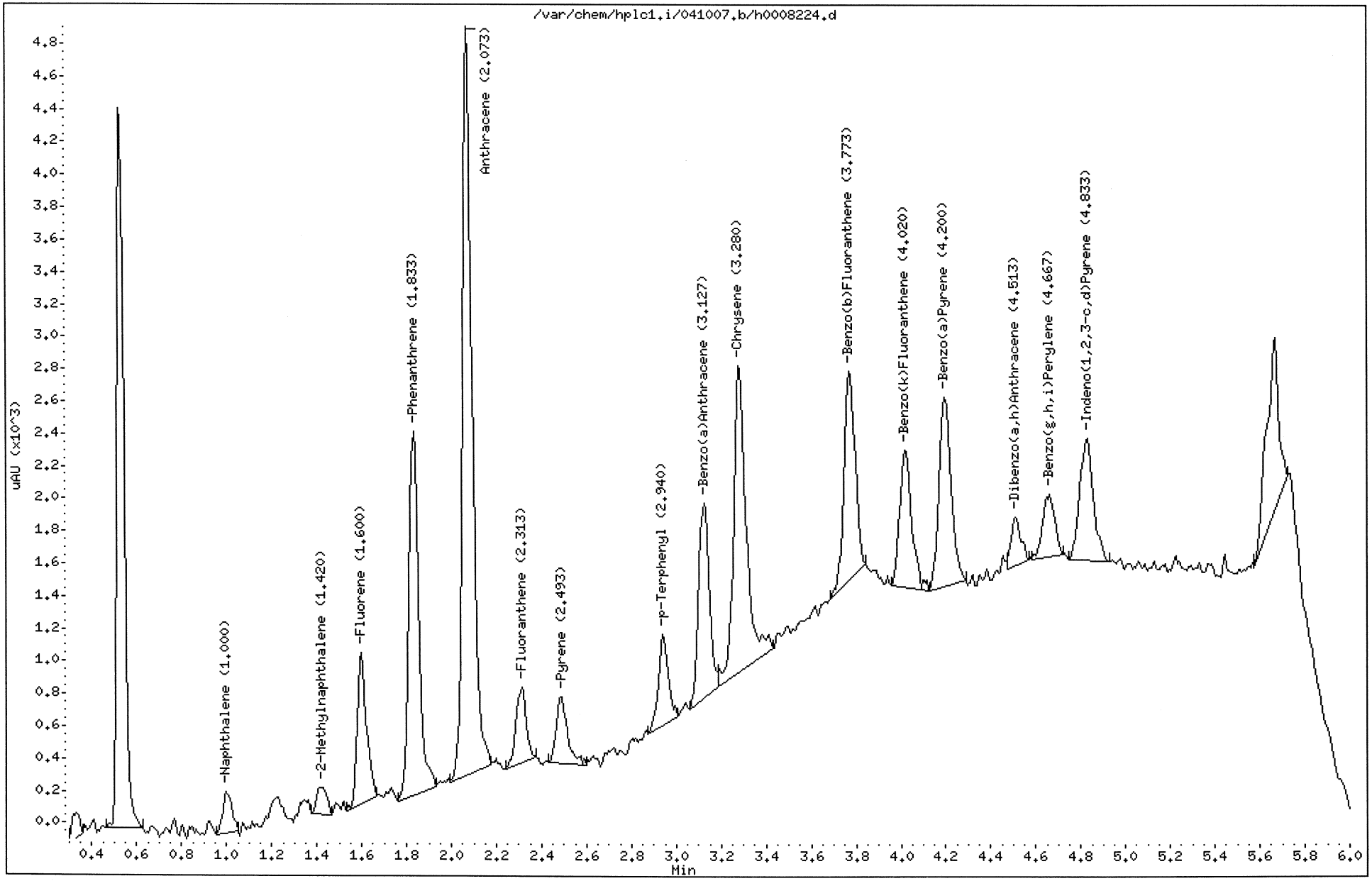
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
18 Benzo(g,h,i)Perylene	4.667	4.671	-0.004	1445	0.25000	0.217(M)
19 Indeno(1,2,3-c,d)Pyrene	4.833	4.844	-0.011	3196	0.25000	0.227

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/041007.b/h0008224.d
Date : 07-OCT-2004 11:26
Client ID: 8310STD0.25
Sample Info: 8310STD0.25
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008225.d
Lab Smp Id: 8310STD0.50 Client Smp ID: 8310STD0.50
Inj Date : 07-OCT-2004 11:33
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD0.50
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:33 Cal File: h0008225.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.003	1.003	0.000	1468	0.50000	0.542
2 Acenaphthylene	1.217	1.217	0.000	892	0.50000	0.494
3 1-Methynaphthalene	1.343	1.343	0.000	588	0.50000	0.406
4 2-Methylnaphthalene	1.423	1.423	0.000	944	0.50000	0.466
5 Acenaphthene	1.503	1.497	0.006	414	0.50000	0.440
6 Fluorene	1.603	1.597	0.006	5497	0.50000	0.484
7 Phenanthrene	1.837	1.837	0.000	12677	0.50000	0.472
8 Anthracene	2.077	2.078	-0.001	27696	0.50000	0.490
9 Fluoranthene	2.317	2.311	0.006	3238	0.50000	0.474
10 Pyrene	2.490	2.491	-0.001	2504	0.50000	0.410
$ 11 p-Terphenyl	2.950	2.951	-0.001	3533	0.50000	0.488
12 Benzo(a)Anthracene	3.130	3.138	-0.008	8113	0.50000	0.496
13 Chrysene	3.290	3.291	-0.001	12985	0.50000	0.476
14 Benzo(b)Fluoranthene	3.783	3.777	0.006	11091	0.50000	0.544

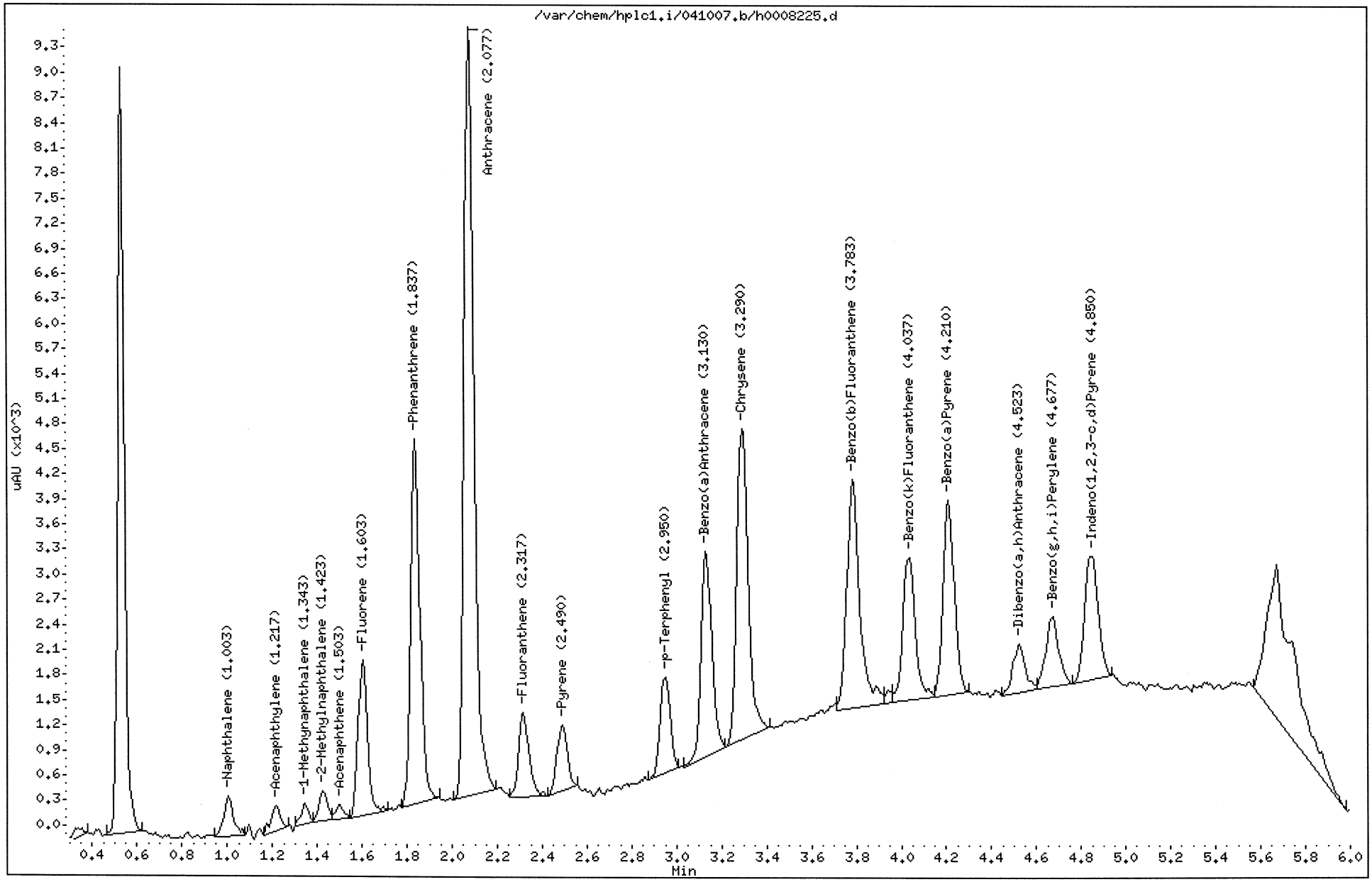
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.037	4.024	0.013	6592	0.50000	0.524
16 Benzo(a)Pyrene	4.210	4.211	-0.001	8124	0.50000	0.461
17 Dibenzo(a,h)Anthracene	4.523	4.537	-0.014	2228	0.50000	0.526
18 Benzo(g,h,i)Perylene	4.677	4.671	0.006	3462	0.50000	0.519
19 Indeno(1,2,3-c,d)Pyrene	4.850	4.844	0.006	6265	0.50000	0.444

000276

Data File: /var/chem/hplc1.i/041007.b/h0008225.d
Date : 07-OCT-2004 11:33
Client ID: 8310STD0.50
Sample Info: 8310STD0.50
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008226.d
Lab Smp Id: 8310SATD001 Client Smp ID: 8310SATD001
Inj Date : 07-OCT-2004 11:40
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310SATD001
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:40 Cal File: h0008226.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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

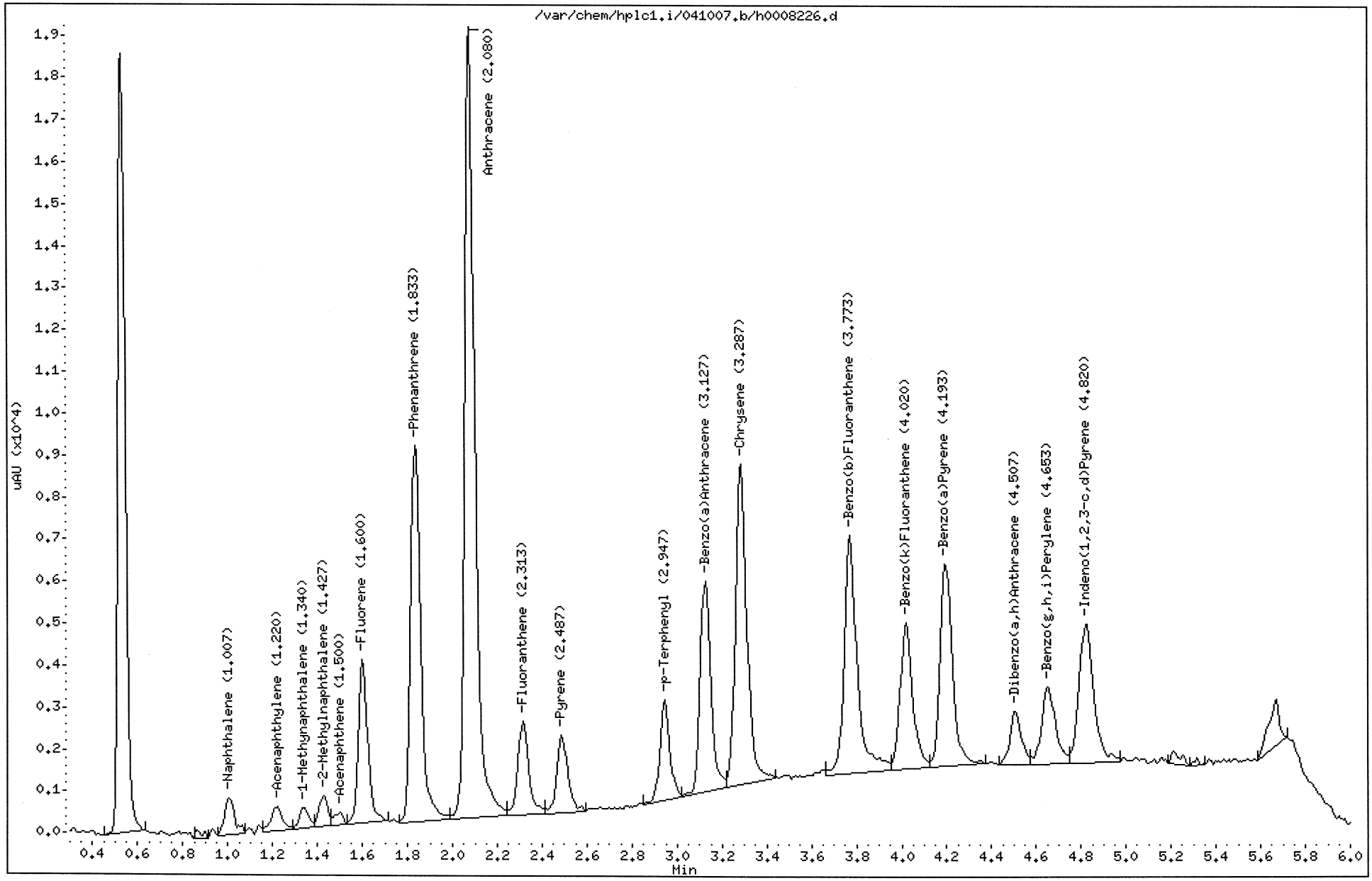
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.007	1.003	0.004	2870	1.00000	1.06
2 Acenaphthylene	1.220	1.217	0.003	2006	1.00000	1.11
3 1-Methynaphthalene	1.340	1.343	-0.003	1490	1.00000	1.03
4 2-Methylnaphthalene	1.427	1.423	0.004	1910	1.00000	0.944
5 Acenaphthene	1.500	1.497	0.003	901	1.00000	0.957
6 Fluorene	1.600	1.597	0.003	11392	1.00000	1.00
7 Phenanthrene	1.833	1.837	-0.004	27948	1.00000	1.04
8 Anthracene	2.080	2.078	0.002	60023	1.00000	1.06
9 Fluoranthene	2.313	2.311	0.002	7693	1.00000	1.13
10 Pyrene	2.487	2.491	-0.004	6390	1.00000	1.05
$ 11 p-Terphenyl	2.947	2.951	-0.004	7532	1.00000	1.04
12 Benzo(a)Anthracene	3.127	3.138	-0.011	16966	1.00000	1.04
13 Chrysene	3.287	3.291	-0.004	27349	1.00000	1.00
14 Benzo(b)Fluoranthene	3.773	3.777	-0.004	23192	1.00000	1.14

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.020	4.024	-0.004	13623	1.00000	1.08
16 Benzo(a)Pyrene	4.193	4.211	-0.018	18568	1.00000	1.05
17 Dibenzo(a,h)Anthracene	4.507	4.537	-0.030	4802	1.00000	1.13
18 Benzo(g,h,i)Perylene	4.653	4.671	-0.018	8101	1.00000	1.21
19 Indeno(1,2,3-c,d)Pyrene	4.820	4.844	-0.024	15380	1.00000	1.09

000279

Data File: /var/chem/hplc1.i/041007.b/h0008226.d
Date : 07-OCT-2004 11:40
Client ID: 8310SATD001
Sample Info: 8310SATD001
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008227.d
Lab Smp Id: 8310STD02.5 Client Smp ID: 8310STD02.5
Inj Date : 07-OCT-2004 11:47
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD02.5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:47 Cal File: h0008227.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.007	1.003	0.004	7090	2.50000	2.62
2 Acenaphthylene	1.213	1.217	-0.004	5002	2.50000	2.77
3 1-Methynaphthalene	1.340	1.343	-0.003	3850	2.50000	2.66
4 2-Methylnaphthalene	1.427	1.423	0.004	5291	2.50000	2.61
5 Acenaphthene	1.493	1.497	-0.004	2562	2.50000	2.72
6 Fluorene	1.600	1.597	0.003	29210	2.50000	2.57
7 Phenanthrene	1.833	1.837	-0.004	69278	2.50000	2.58
8 Anthracene	2.073	2.078	-0.005	145812	2.50000	2.58
9 Fluoranthene	2.313	2.311	0.002	18515	2.50000	2.71
10 Pyrene	2.487	2.491	-0.004	17162	2.50000	2.81
$ 11 p-Terphenyl	2.947	2.951	-0.004	18400	2.50000	2.54
12 Benzo(a)Anthracene	3.127	3.138	-0.011	41380	2.50000	2.53
13 Chrysene	3.287	3.291	-0.004	67732	2.50000	2.48
14 Benzo(b)Fluoranthene	3.773	3.777	-0.004	50750	2.50000	2.49

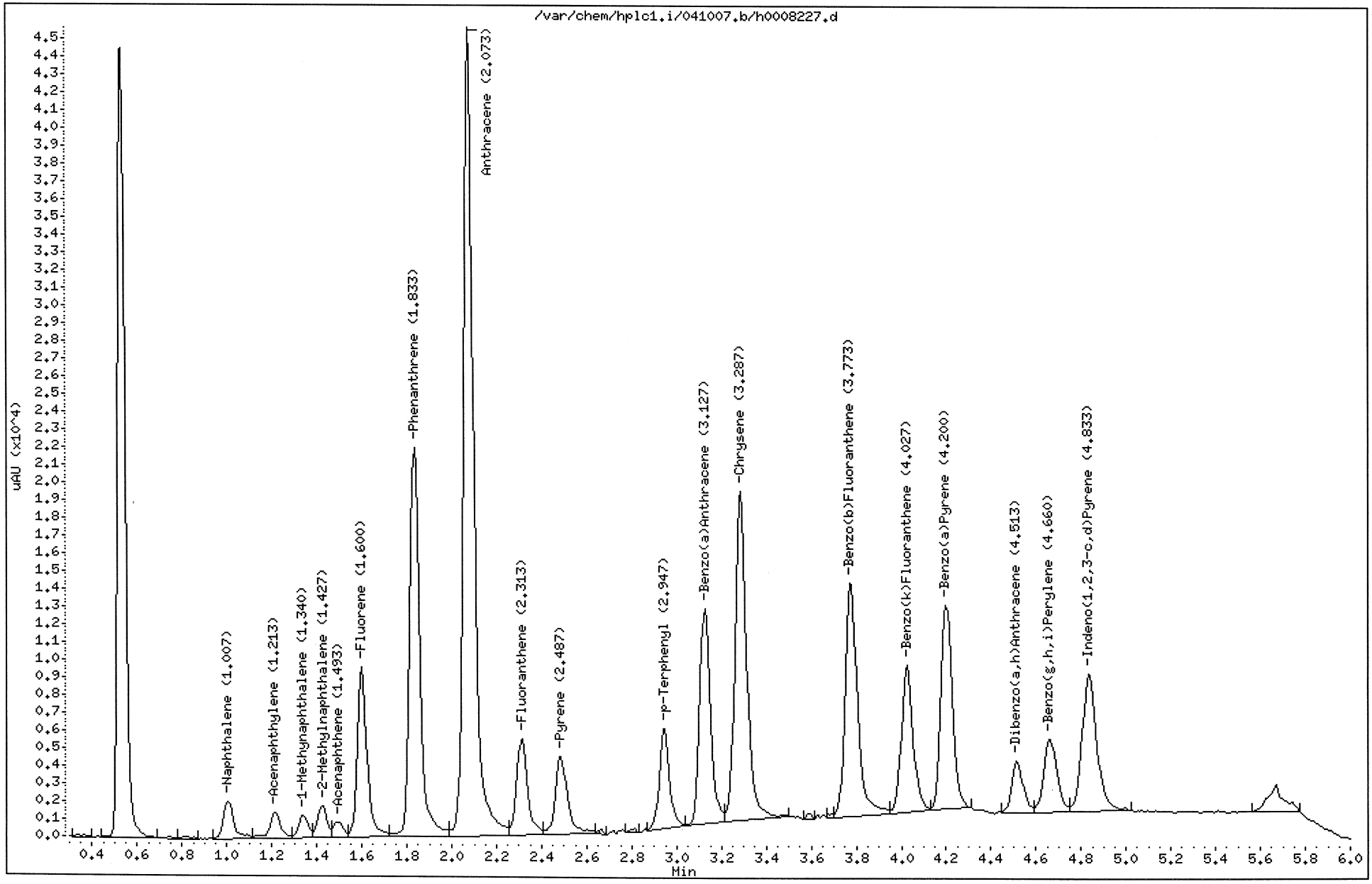
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.027	4.024	0.003	30241	2.50000	2.41
16 Benzo(a)Pyrene	4.200	4.211	-0.011	41307	2.50000	2.34
17 Dibenzo(a,h)Anthracene	4.513	4.537	-0.024	10840	2.50000	2.56
18 Benzo(g,h,i)Perylene	4.660	4.671	-0.011	17191	2.50000	2.58
19 Indeno(1,2,3-c,d)Pyrene	4.833	4.844	-0.011	36027	2.50000	2.56

Data File: /var/chem/hplc1.i/041007.b/h0008227.d
Date : 07-OCT-2004 11:47
Client ID: 8310STD02.5
Sample Info: 8310STD02.5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000282



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008228.d
Lab Smp Id: 8310STD005 Client Smp ID: 8310STD005
Inj Date : 07-OCT-2004 11:54
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD005
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:54 Cal File: h0008228.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.002	1.003	-0.001	11754	5.00000	4.34(M)
2 Acenaphthylene	1.216	1.217	-0.001	7857	5.00000	4.35
3 1-Methynaphthalene	1.342	1.343	-0.001	6646	5.00000	4.59
4 2-Methylnaphthalene	1.429	1.423	0.006	9770	5.00000	4.83
5 Acenaphthene	1.496	1.497	-0.001	4306	5.00000	4.58
6 Fluorene	1.602	1.597	0.005	56276	5.00000	4.96
7 Phenanthrene	1.836	1.837	-0.001	133837	5.00000	4.98
8 Anthracene	2.083	2.078	0.005	282933	5.00000	5.00
9 Fluoranthene	2.316	2.311	0.005	34426	5.00000	5.04
10 Pyrene	2.489	2.491	-0.002	30073	5.00000	4.92
$ 11 p-Terphenyl	2.949	2.951	-0.002	36146	5.00000	5.00
12 Benzo(a)Anthracene	3.136	3.138	-0.002	82514	5.00000	5.05
13 Chrysene	3.296	3.291	0.005	134197	5.00000	4.92
14 Benzo(b)Fluoranthene	3.783	3.777	0.006	100512	5.00000	4.93

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.036	4.024	0.012	62899	5.00000	5.00
16 Benzo(a)Pyrene	4.209	4.211	-0.002	91701	5.00000	5.20
17 Dibenzo(a,h)Anthracene	4.522	4.537	-0.015	21360	5.00000	5.04
18 Benzo(g,h,i)Perylene	4.669	4.671	-0.002	34763	5.00000	5.21
19 Indeno(1,2,3-c,d)Pyrene	4.843	4.844	-0.001	74138	5.00000	5.26

QC Flag Legend

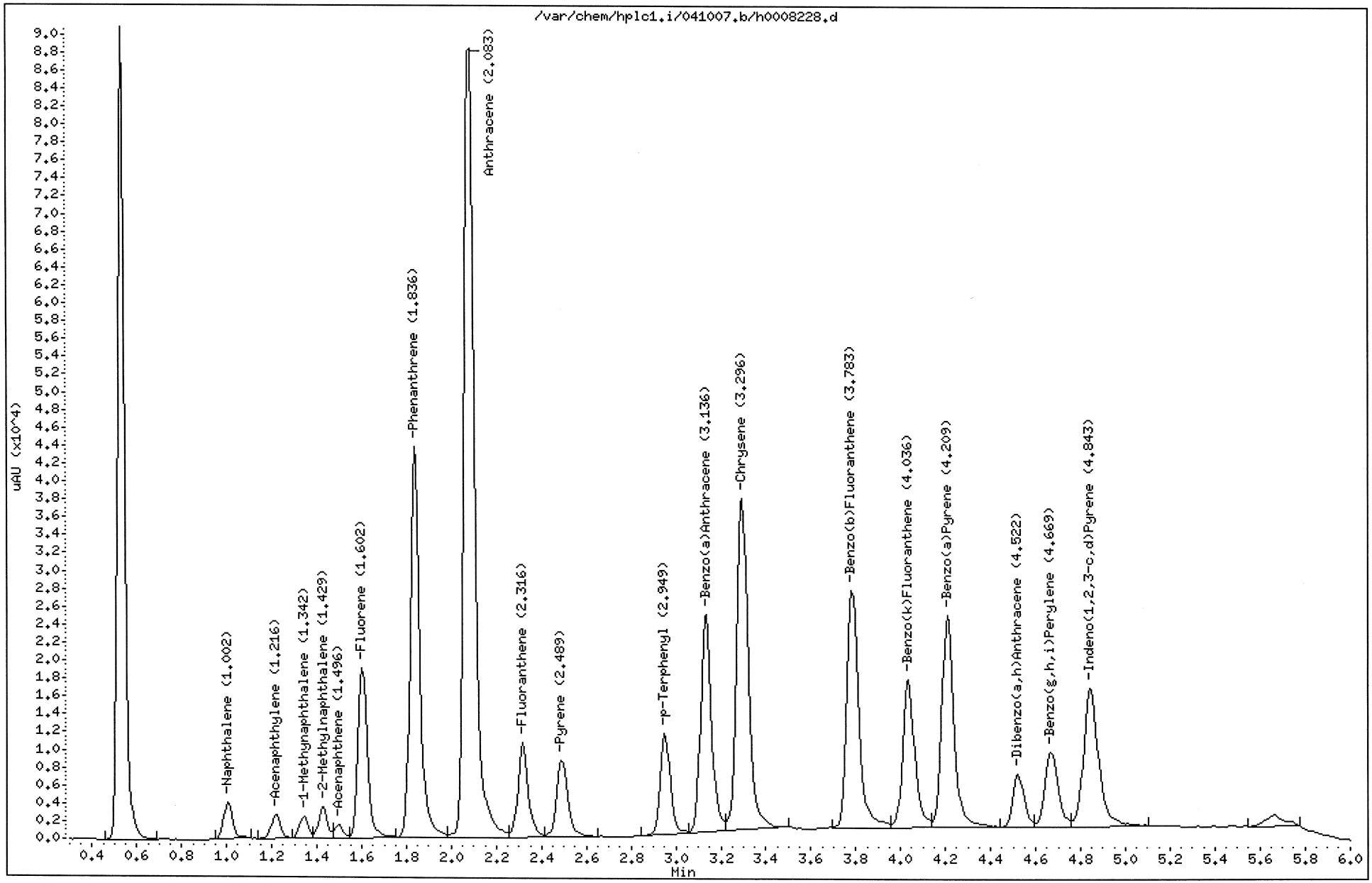
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/041007.b/h0008228.d
Date : 07-OCT-2004 11:54
Client ID: 8310STD005
Sample Info: 8310STD005
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000285



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008229.d
Lab Smp Id: 8310STD010 Client Smp ID: 8310STD010
Inj Date : 07-OCT-2004 12:01
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310STD010
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:01 Cal File: h0008229.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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

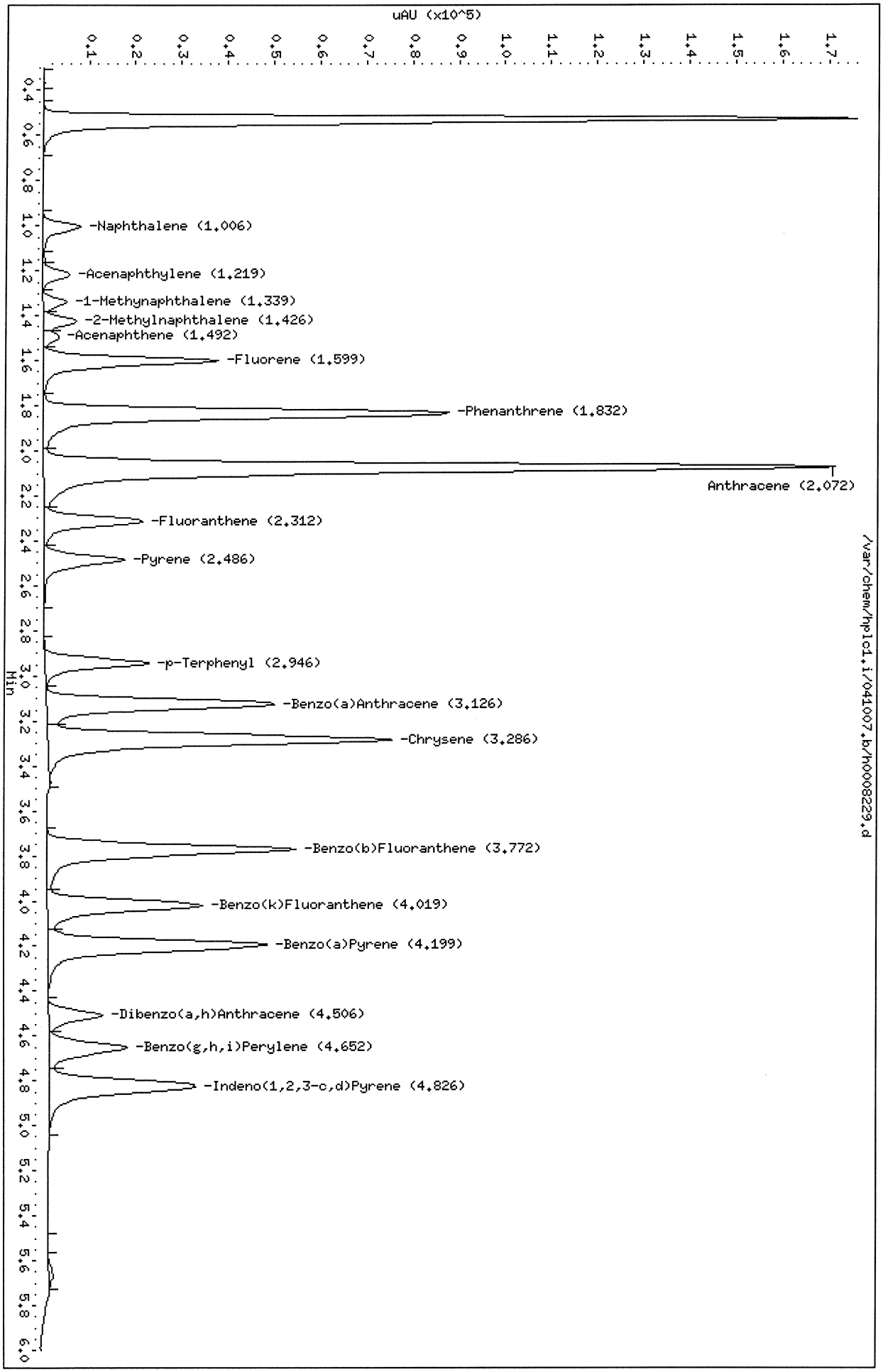
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.006	1.003	0.003	25989	10.0000	9.59
2 Acenaphthylene	1.219	1.217	0.002	17478	10.0000	9.68
3 1-Methynaphthalene	1.339	1.343	-0.004	14539	10.0000	10.0
4 2-Methylnaphthalene	1.426	1.423	0.003	20843	10.0000	10.3
5 Acenaphthene	1.492	1.497	-0.005	9844	10.0000	10.5
6 Fluorene	1.599	1.597	0.002	114986	10.0000	10.1
7 Phenanthrene	1.832	1.837	-0.005	270718	10.0000	10.1
8 Anthracene	2.072	2.078	-0.006	552800	10.0000	9.78
9 Fluoranthene	2.312	2.311	0.001	71173	10.0000	10.4
10 Pyrene	2.486	2.491	-0.005	62096	10.0000	10.2
$ 11 p-Terphenyl	2.946	2.951	-0.005	72047	10.0000	9.96
12 Benzo(a)Anthracene	3.126	3.138	-0.012	165618	10.0000	10.1
13 Chrysene	3.286	3.291	-0.005	268941	10.0000	9.85
14 Benzo(b)Fluoranthene	3.772	3.777	-0.005	200441	10.0000	9.84

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.019	4.024	-0.005	125446	10.0000	9.98
16 Benzo(a)Pyrene	4.199	4.211	-0.012	181052	10.0000	10.3
17 Dibenzo(a,h)Anthracene	4.506	4.537	-0.031	40228	10.0000	9.50
18 Benzo(g,h,i)Perylene	4.652	4.671	-0.019	67865	10.0000	10.2
19 Indeno(1,2,3-c,d)Pyrene	4.826	4.844	-0.018	143711	10.0000	10.2

Data File: /var/chem/hplc1.i/041007.b/h0008229.d
Date : 07-OCT-2004 12:01
Client ID: 8310STD010
Sample Info: 8310STD010
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007.b/h0008230.d
Lab Smp Id: 8310DTD020 Client Smp ID: 8310DTD020
Inj Date : 07-OCT-2004 12:08
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310DTD020
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007.b/flpnauv.m
Meth Date : 08-Nov-2004 15:49 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.003	1.003	0.000	50803	20.0000	18.7
2 Acenaphthylene	1.217	1.217	0.000	33976	20.0000	18.8
3 1-Methynaphthalene	1.343	1.343	0.000	28658	20.0000	19.8
4 2-Methylnaphthalene	1.423	1.423	0.000	41076	20.0000	20.3
5 Acenaphthene	1.497	1.497	0.000	18680	20.0000	19.8
6 Fluorene	1.603	1.597	0.006	226083	20.0000	19.9
7 Phenanthrene	1.837	1.837	0.000	530172	20.0000	19.7
8 Anthracene	2.077	2.078	-0.001	1030545	20.0000	18.2
9 Fluoranthene	2.310	2.311	-0.001	137054	20.0000	20.1
10 Pyrene	2.483	2.491	-0.008	118358	20.0000	19.4
$ 11 p-Terphenyl	2.943	2.951	-0.008	142550	20.0000	19.7
12 Benzo(a)Anthracene	3.123	3.138	-0.015	328421	20.0000	20.1
13 Chrysene	3.283	3.291	-0.008	529796	20.0000	19.4
14 Benzo(b)Fluoranthene	3.770	3.777	-0.007	395475	20.0000	19.4

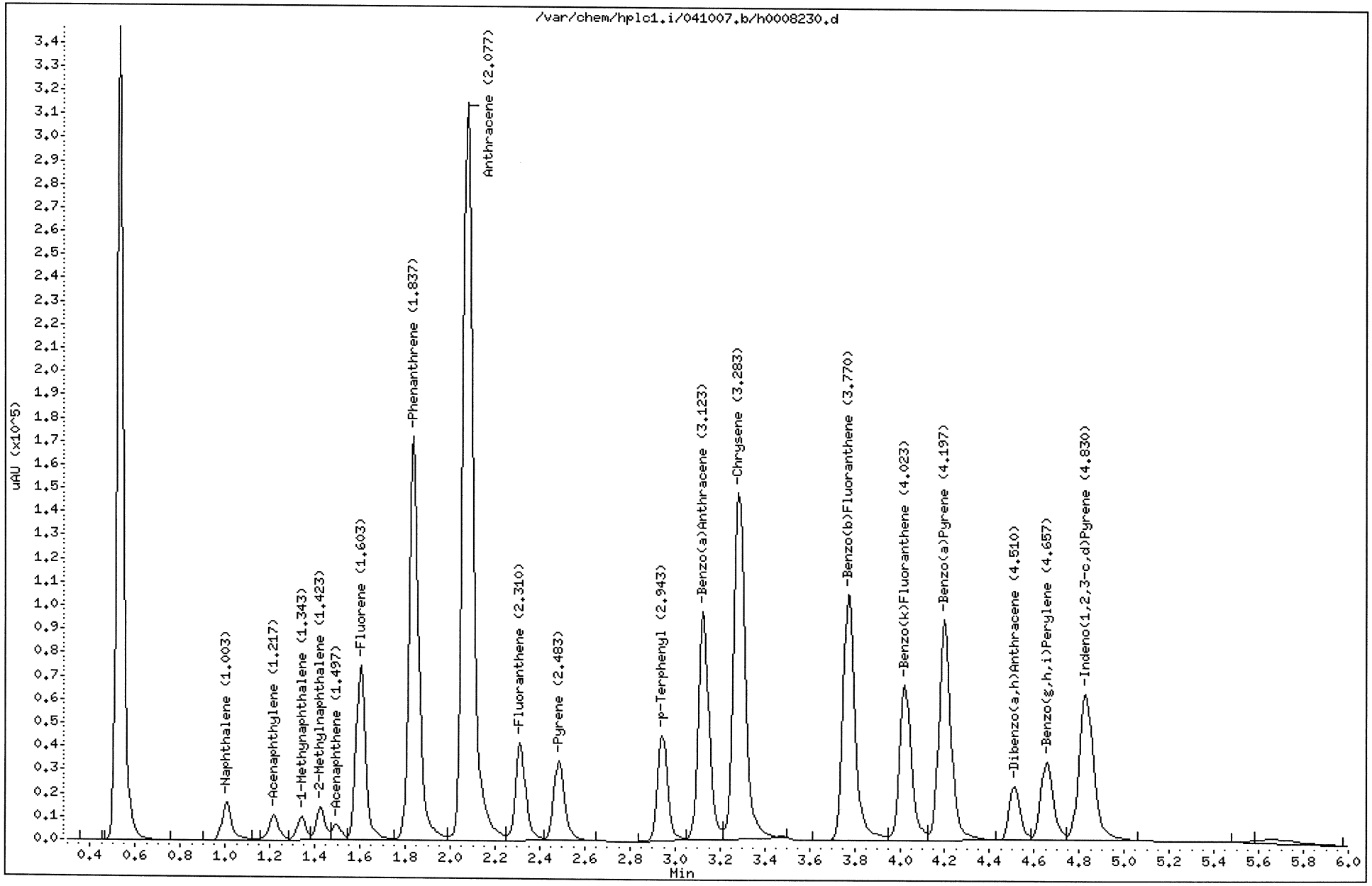
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.023	4.024	-0.001	247406	20.0000	19.7
16 Benzo(a)Pyrene	4.197	4.211	-0.014	358828	20.0000	20.4
17 Dibenzo(a,h)Anthracene	4.510	4.537	-0.027	80128	20.0000	18.9
18 Benzo(g,h,i)Perylene	4.657	4.671	-0.014	133981	20.0000	20.1
19 Indeno(1,2,3-c,d)Pyrene	4.830	4.844	-0.014	287252	20.0000	20.4

000291

Data File: /var/chem/hplc1.i/041007.b/h0008230.d
Date : 07-OCT-2004 12:08
Client ID: 8310DTD020
Sample Info: 8310DTD020
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10



Data File: /var/chem/hplc1.i/041012.b/h0008171.d
Report Date: 12-Oct-2004 13:32

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id:
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/041012.b/flpnauv.m
Misc Info:

Client SDG: 041012
Fraction: OTHER

Operator: rlw
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	2.50	2.10	83.86	80-120
2 Acenaphthylene	2.50	2.16	86.27	80-120
3 1-Methynaphthalene	2.50	2.41	96.49	80-120
4 2-Methylnaphthalen	2.50	2.44	97.56	80-120
5 Acenaphthene	2.50	2.46	98.48	80-120
6 Fluorene	2.50	2.51	100.24	80-120
7 Phenanthrene	2.50	2.55	101.88	80-120
8 Anthracene	2.50	2.55	102.12	80-120
9 Fluoranthene	2.50	2.57	102.61	80-120
10 Pyrene	2.50	2.58	103.17	80-120
12 Benzo(a)Anthracene	2.50	2.47	98.78	80-120
13 Chrysene	2.50	2.39	95.45	80-120
14 Benzo(b)Fluoranthe	2.50	2.54	101.62	80-120
15 Benzo(k)Fluoranthe	2.50	2.49	99.68	80-120
16 Benzo(a)Pyrene	2.50	2.40	96.18	80-120
17 Dibenzo(a,h)Anthra	2.50	2.40	95.96	80-120
18 Benzo(g,h,i)Peryle	2.50	2.47	98.91	80-120
19 Indeno(1,2,3-c,d)P	2.50	2.50	99.92	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	2.00	2.33	116.74	40-140

GCAL, Inc.

Data file : /var/chem/hplc1.i/041012.b/h0008171.d
Lab Smp Id:
Inj Date : 12-OCT-2004 12:30
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310ICV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041012.b/flpnauv.m
Meth Date : 12-Oct-2004 13:30 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.998	0.992	0.006	5683	2.09640	2.10(M)
2 Acenaphthylene	1.211	1.199	0.012	3893	2.15683	2.16
3 1-Methynaphthalene	1.331	1.326	0.005	3496	2.41237	2.41
4 2-Methylnaphthalene	1.418	1.406	0.012	4936	2.43910	2.44
5 Acenaphthene	1.491	1.479	0.012	2317	2.46206	2.46
6 Fluorene	1.597	1.579	0.018	28454	2.50593	2.51
7 Phenanthrene	1.831	1.806	0.025	68462	2.54708	2.55
8 Anthracene	2.071	2.039	0.032	144328	2.55305	2.55
9 Fluoranthene	2.304	2.272	0.032	17510	2.56518	2.57
10 Pyrene	2.478	2.439	0.039	15753	2.57924	2.58
$ 11 p-Terphenyl	2.938	2.886	0.052	16889	2.33487	2.33(M)
12 Benzo(a)Anthracene	3.118	3.066	0.052	40389	2.46960	2.47
13 Chrysene	3.277	3.219	0.058	65128	2.38618	2.39

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
14 Benzo(b)Fluoranthene	3.771	3.706	0.065	51766	2.54038	2.54
15 Benzo(k)Fluoranthene	4.024	3.953	0.071	31327	2.49195	2.49
16 Benzo(a)Pyrene	4.197	4.133	0.064	42363	2.40447	2.40
17 Dibenzo(a,h)Anthracene	4.511	4.446	0.065	10029	2.39891	2.40
18 Benzo(g,h,i)Perylene	4.657	4.593	0.064	16496	2.47272	2.47
19 Indeno(1,2,3-c,d)Pyrene	4.831	4.746	0.085	35208	2.49788	2.50

QC Flag Legend

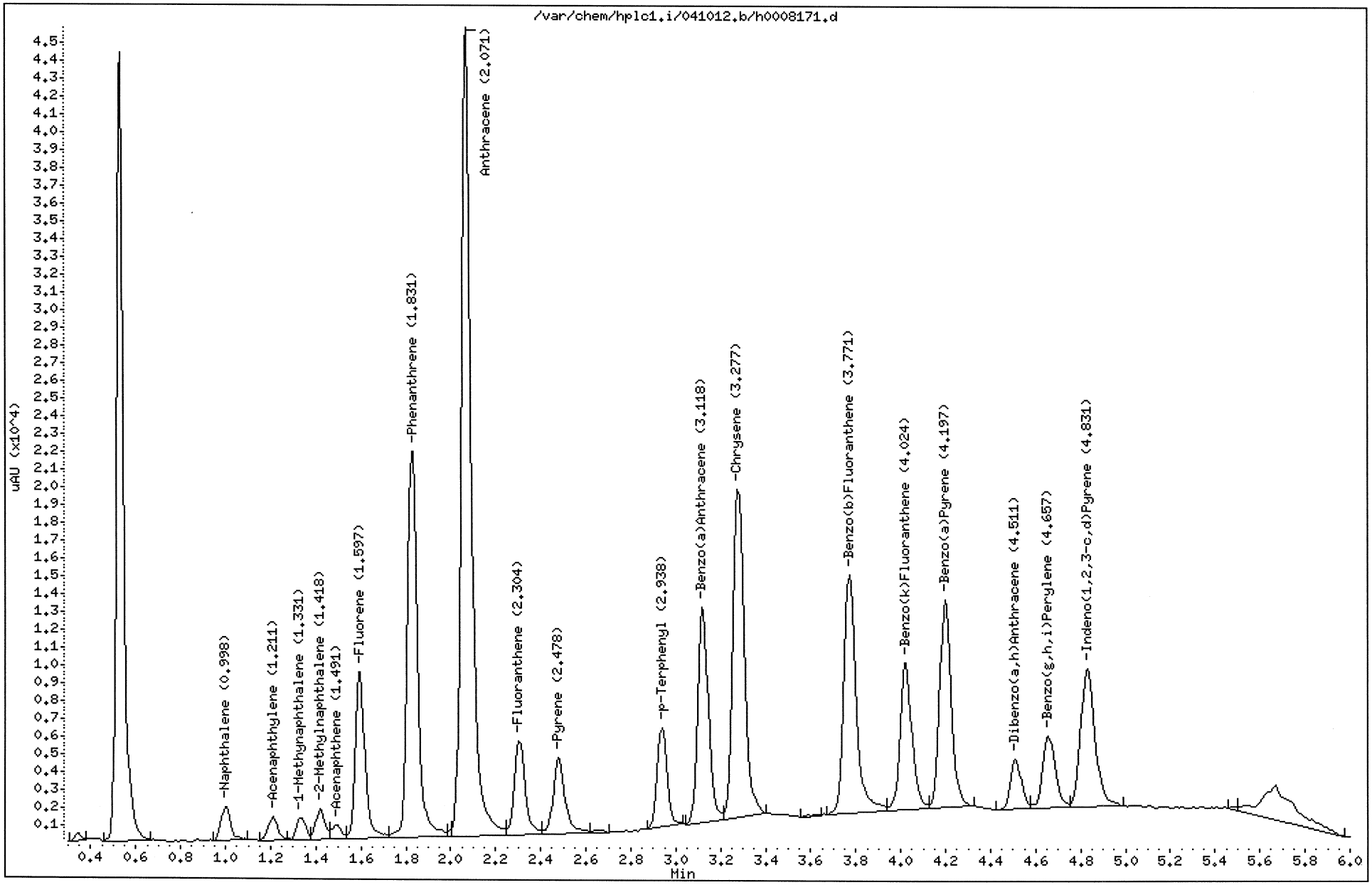
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/041012.b/h0008171.d
Date : 12-OCT-2004 12:30
Client ID:
Sample Info: 8310ICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000295



Data File: /var/chem/hplc1.i/050223.b/h0000408.d
Report Date: 23-Feb-2005 15:58

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000408.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050223.b/flpnauv.m

Injection Date: 23-FEB-2005 15:59
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2711	2489	0.010	8.19067	15.00000	Averaged
	2 Acenaphthylene	1805	1725	0.010	4.41893	15.00000	Averaged
	3 1-Methynaphthalene	1449	1539	0.010	-6.21032	15.00000	Averaged
	4 2-Methylnaphthalene	2001	2131	0.010	-6.48232	15.00000	Averaged
	5 Acenaphthene	941	965	0.010	-2.56301	15.00000	Averaged
	6 Fluorene	11355	11350	0.010	0.03750	15.00000	Averaged
	7 Phenanthrene	26879	26145	0.010	2.72866	15.00000	Averaged
	8 Anthracene	56532	52933	0.010	6.36547	15.00000	Averaged
	9 Fluoranthene	6826	6918	0.010	-1.34156	15.00000	Averaged
	10 Pyrene	6108	6152	0.010	-0.72021	15.00000	Averaged
$	11 p-Terphenyl	7234	6940	0.010	4.05922	15.00000	Averaged
	12 Benzo(a)Anthracene	16354	15844	0.010	3.12121	15.00000	Averaged
	13 Chrysene	27294	26409	0.010	3.24134	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20377	20792	0.010	-2.03520	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12571	12626	0.010	-0.43224	15.00000	Averaged
	16 Benzo(a)Pyrene	17618	17956	0.010	-1.91816	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4181	4190	0.010	-0.21408	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6671	6559	0.010	1.67877	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14095	13468	0.010	4.44661	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.16871
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000408.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 23-FEB-2005 15:59
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-14-1
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 23-Feb-2005 15:58 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	1.003	1.003	0.000	6222	2.50000	2.30
2 Acenaphthylene	1.217	1.217	0.000	4313	2.50000	2.39
3 1-Methynaphthalene	1.343	1.343	0.000	3848	2.50000	2.66
4 2-Methylnaphthalene	1.423	1.423	0.000	5327	2.50000	2.66
5 Acenaphthene	1.503	1.503	0.000	2413	2.50000	2.56
6 Fluorene	1.603	1.603	0.000	28376	2.50000	2.50(M)
7 Phenanthrene	1.830	1.830	0.000	65363	2.50000	2.43(M)
8 Anthracene	2.070	2.070	0.000	132333	2.50000	2.34(M)
9 Fluoranthene	2.303	2.303	0.000	17294	2.50000	2.53(M)
10 Pyrene	2.477	2.477	0.000	15379	2.50000	2.52
$ 11 p-Terphenyl	2.923	2.923	0.000	17350	2.50000	2.40
12 Benzo(a)Anthracene	3.103	3.103	0.000	39610	2.50000	2.42(M)
13 Chrysene	3.257	3.257	0.000	66023	2.50000	2.42(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.737	3.737	0.000	51980	2.50000	2.55
15 Benzo(k)Fluoranthene	3.970	3.970	0.000	31564	2.50000	2.51(M)
16 Benzo(a)Pyrene	4.150	4.150	0.000	44891	2.50000	2.55(M)
17 Dibenzo(a,h)Anthracene	4.450	4.450	0.000	10474	2.50000	2.51(M)
18 Benzo(g,h,i)Perylene	4.590	4.590	0.000	16398	2.50000	2.46(M)
19 Indeno(1,2,3-c,d)Pyrene	4.743	4.743	0.000	33671	2.50000	2.39(M)

QC Flag Legend

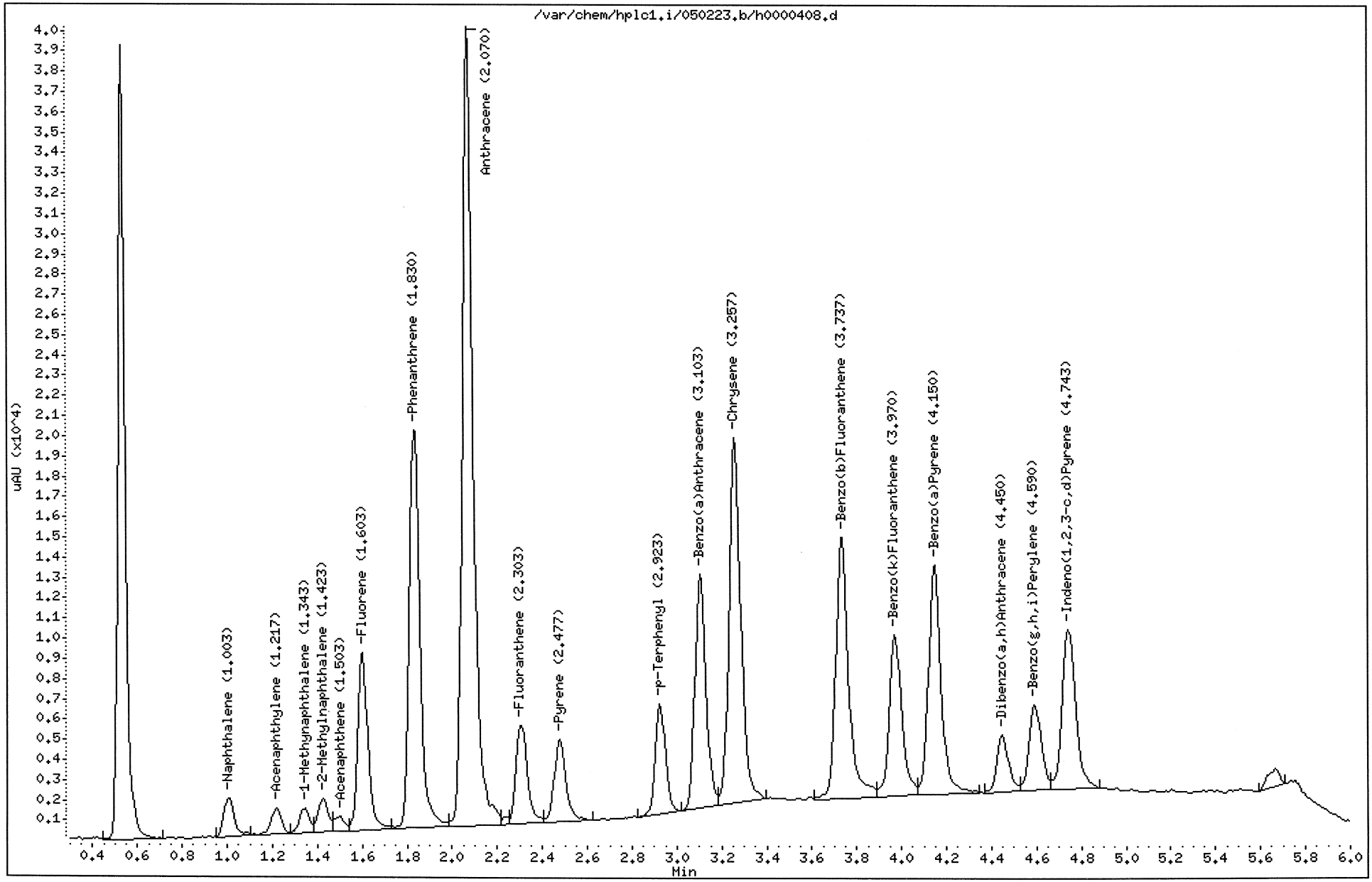
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000408.d
Date : 23-FEB-2005 15:59
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000299



Data File: /var/chem/hplc1.i/050223.b/h0000432.d
Report Date: 25-Feb-2005 09:35

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000432.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050223.b/flpnauv.m

Injection Date: 23-FEB-2005 19:20
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2711	2565	0.010	5.37235	15.00000	Averaged
	2 Acenaphthylene	1805	1768	0.010	2.06985	15.00000	Averaged
	3 1-Methynaphthalene	1449	1518	0.010	-4.74745	15.00000	Averaged
	4 2-Methylnaphthalene	2001	2154	0.010	-7.64169	15.00000	Averaged
	5 Acenaphthene	941	940	0.010	0.07226	15.00000	Averaged
	6 Fluorene	11355	11323	0.010	0.28058	15.00000	Averaged
	7 Phenanthrene	26879	26015	0.010	3.21380	15.00000	Averaged
	8 Anthracene	56532	52762	0.010	6.66830	15.00000	Averaged
	9 Fluoranthene	6826	7011	0.010	-2.70692	15.00000	Averaged
	10 Pyrene	6108	6118	0.010	-0.16353	15.00000	Averaged
$	11 p-Terphenyl	7234	6965	0.010	3.71637	15.00000	Averaged
	12 Benzo(a)Anthracene	16354	15820	0.010	3.27040	15.00000	Averaged
	13 Chrysene	27294	26797	0.010	1.81978	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20377	19801	0.010	2.82904	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12571	12303	0.010	2.13553	15.00000	Averaged
	16 Benzo(a)Pyrene	17618	17154	0.010	2.63616	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4181	3845	0.010	8.02387	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6671	6340	0.010	4.95854	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14095	13526	0.010	4.03512	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.49271
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223.b/h0000432.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 23-FEB-2005 19:20
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223.b/flpnauv.m
Meth Date : 25-Feb-2005 09:35 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.995	0.995	0.000	6413	2.50000	2.37
2 Acenaphthylene	1.202	1.202	0.000	4419	2.50000	2.45
3 1-Methynaphthalene	1.328	1.328	0.000	3795	2.50000	2.62
4 2-Methylnaphthalene	1.408	1.408	0.000	5385	2.50000	2.69
5 Acenaphthene	1.475	1.475	0.000	2351	2.50000	2.50
6 Fluorene	1.575	1.575	0.000	28307	2.50000	2.49
7 Phenanthrene	1.802	1.802	0.000	65037	2.50000	2.42
8 Anthracene	2.035	2.035	0.000	131905	2.50000	2.33
9 Fluoranthene	2.262	2.262	0.000	17527	2.50000	2.57
10 Pyrene	2.435	2.435	0.000	15294	2.50000	2.50
$ 11 p-Terphenyl	2.868	2.868	0.000	17412	2.50000	2.41
12 Benzo(a)Anthracene	3.048	3.048	0.000	39549	2.50000	2.42
13 Chrysene	3.188	3.188	0.000	66993	2.50000	2.45

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.662	3.662	0.000	49502	2.50000	2.43
15 Benzo(k)Fluoranthene	3.895	3.895	0.000	30757	2.50000	2.45
16 Benzo(a)Pyrene	4.075	4.075	0.000	42885	2.50000	2.43
17 Dibenzo(a,h)Anthracene	4.375	4.375	0.000	9613	2.50000	2.30(M)
18 Benzo(g,h,i)Perylene	4.522	4.522	0.000	15851	2.50000	2.38(M)
19 Indeno(1,2,3-c,d)Pyrene	4.655	4.655	0.000	33816	2.50000	2.40(M)

QC Flag Legend

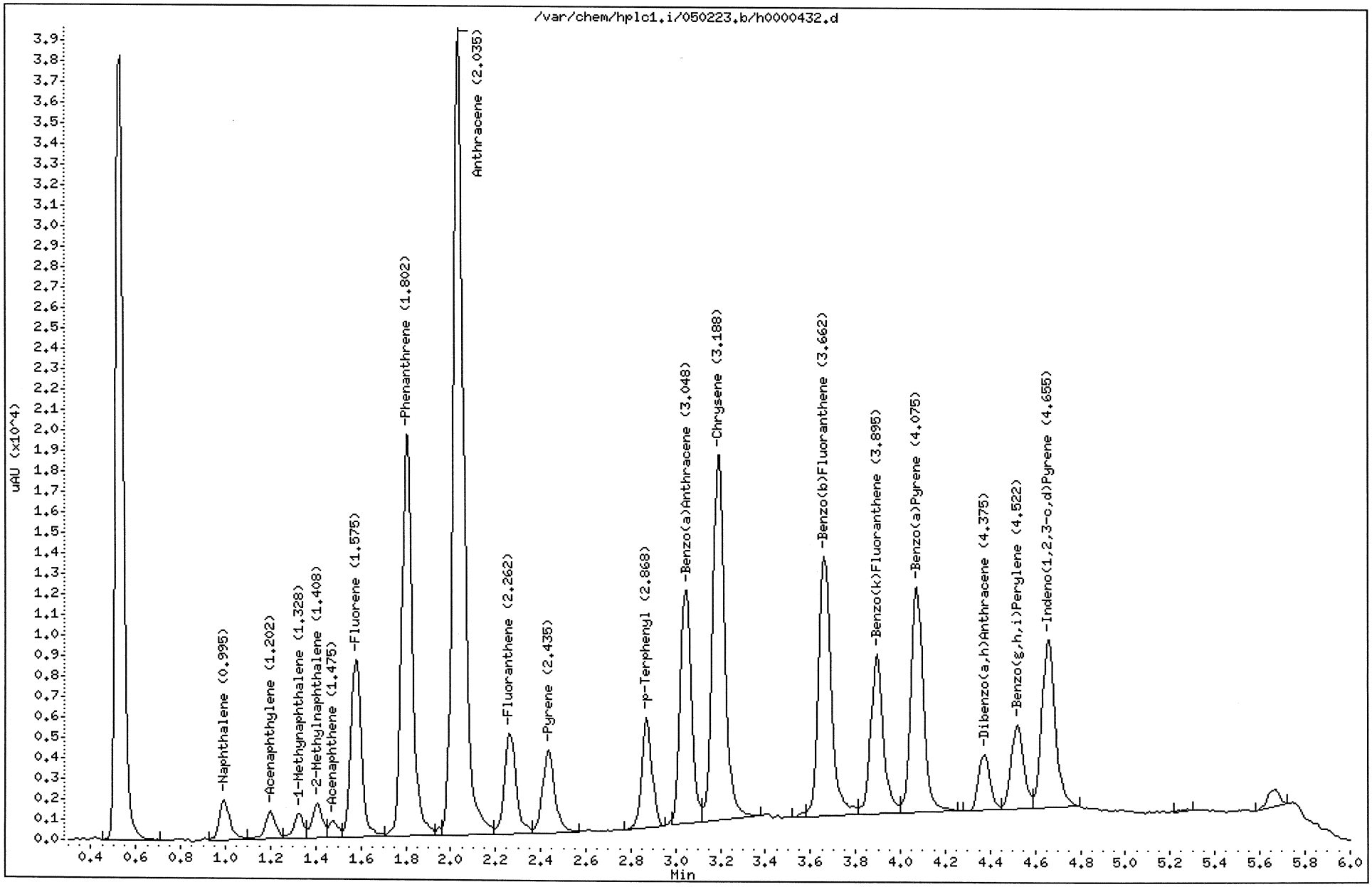
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223.b/h0000432.d
Date : 23-FEB-2005 19:20
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000303



Data File: /var/chem/hplc1.i/050225.b/h0000435.d
Report Date: 25-Feb-2005 10:09

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000435.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050225.b/flpnauv.m

Injection Date: 25-FEB-2005 09:54
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2711	2822	0.010	-4.10074	15.00000	Averaged
	2 Acenaphthylene	1805	1730	0.010	4.17516	15.00000	Averaged
	3 1-Methynaphthalene	1449	1515	0.010	-4.55424	15.00000	Averaged
	4 2-Methylnaphthalene	2001	2024	0.010	-1.16520	15.00000	Averaged
	5 Acenaphthene	941	919	0.010	2.36749	15.00000	Averaged
	6 Fluorene	11355	11051	0.010	2.67607	15.00000	Averaged
	7 Phenanthrene	26879	26681	0.010	0.73599	15.00000	Averaged
	8 Anthracene	56532	53860	0.010	4.72532	15.00000	Averaged
	9 Fluoranthene	6826	7249	0.010	-6.19944	15.00000	Averaged
	10 Pyrene	6108	5894	0.010	3.49093	15.00000	Averaged
$	11 p-Terphenyl	7234	7394	0.010	-2.22256	15.00000	Averaged
	12 Benzo(a)Anthracene	16354	16406	0.010	-0.31761	15.00000	Averaged
	13 Chrysene	27294	27242	0.010	0.19011	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20377	20546	0.010	-0.82994	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12571	12638	0.010	-0.52769	15.00000	Averaged
	16 Benzo(a)Pyrene	17618	17695	0.010	-0.43335	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4181	4058	0.010	2.93375	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6671	6812	0.010	-2.11066	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14095	13619	0.010	3.37674	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.48068
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000435.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 25-FEB-2005 09:54
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-14-1
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 10:09 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.986	0.986	0.000	7055	2.50000	2.60
2 Acenaphthylene	1.199	1.199	0.000	4324	2.50000	2.40(M)
3 1-Methynaphthalene	1.312	1.312	0.000	3788	2.50000	2.61(M)
4 2-Methylnaphthalene	1.399	1.399	0.000	5061	2.50000	2.53(M)
5 Acenaphthene	1.472	1.472	0.000	2297	2.50000	2.44(M)
6 Fluorene	1.566	1.566	0.000	27627	2.50000	2.43(M)
7 Phenanthrene	1.792	1.792	0.000	66702	2.50000	2.48
8 Anthracene	2.019	2.019	0.000	134651	2.50000	2.38
9 Fluoranthene	2.246	2.246	0.000	18123	2.50000	2.65
10 Pyrene	2.413	2.413	0.000	14736	2.50000	2.41
$ 11 p-Terphenyl	2.852	2.852	0.000	18486	2.50000	2.56
12 Benzo(a)Anthracene	3.019	3.019	0.000	41016	2.50000	2.51
13 Chrysene	3.166	3.166	0.000	68105	2.50000	2.50

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.646	3.646	0.000	51366	2.50000	2.52
15 Benzo(k)Fluoranthene	3.886	3.886	0.000	31594	2.50000	2.51
16 Benzo(a)Pyrene	4.072	4.072	0.000	44237	2.50000	2.51
17 Dibenzo(a,h)Anthracene	4.386	4.386	0.000	10145	2.50000	2.43
18 Benzo(g,h,i)Perylene	4.539	4.539	0.000	17030	2.50000	2.55
19 Indeno(1,2,3-c,d)Pyrene	4.686	4.686	0.000	34048	2.50000	2.42

QC Flag Legend

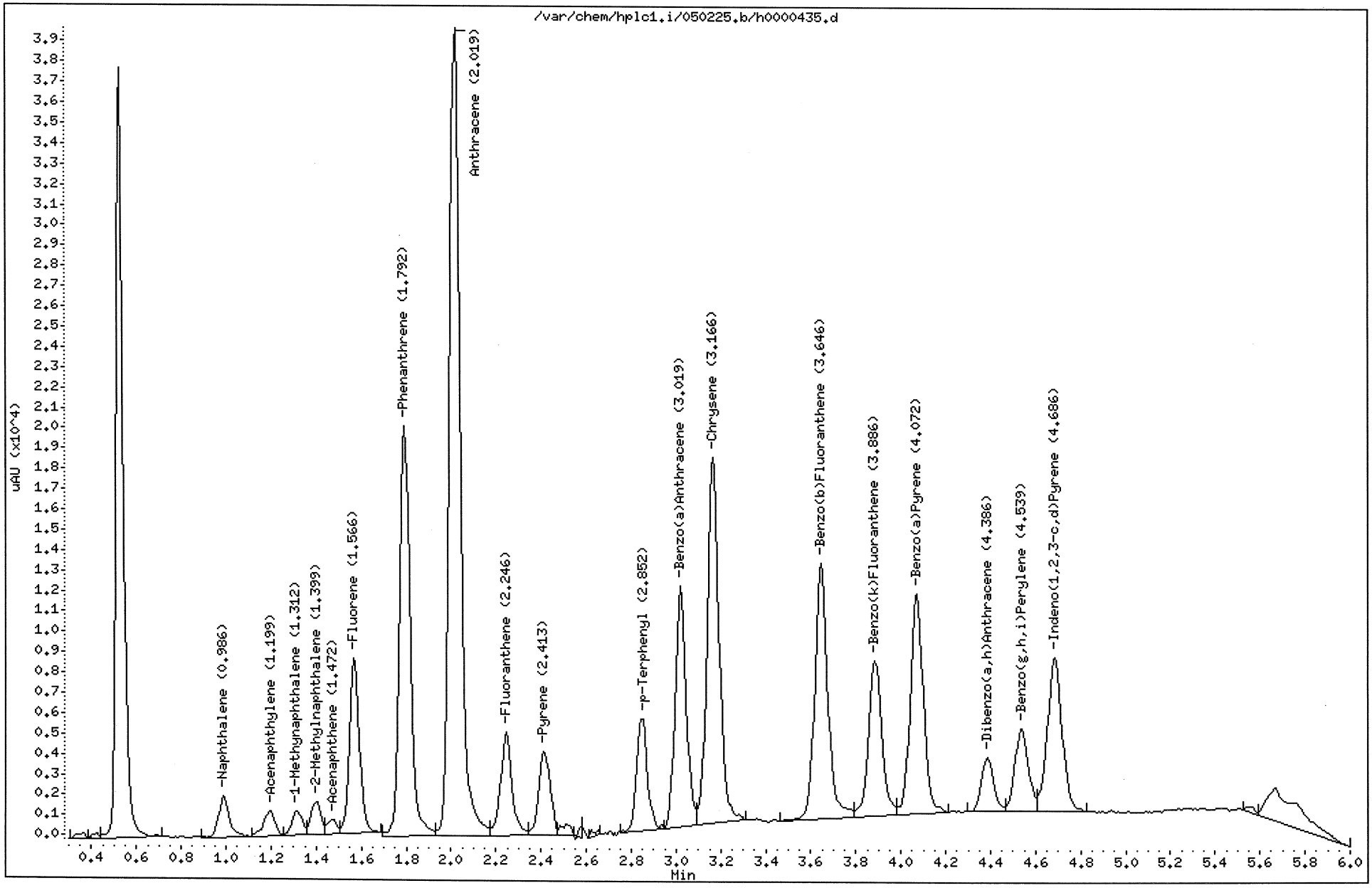
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000435.d
Date : 25-FEB-2005 09:54
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000307



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000445.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050225.b/flpnauv.m

Injection Date: 25-FEB-2005 12:48
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2711	2550	0.010	5.94782	15.00000	Averaged
	2 Acenaphthylene	1805	1680	0.010	6.92315	15.00000	Averaged
	3 1-Methynaphthalene	1449	1328	0.010	8.36323	15.00000	Averaged
	4 2-Methylnaphthalene	2001	2102	0.010	-5.04310	15.00000	Averaged
	5 Acenaphthene	941	892	0.010	5.25779	15.00000	Averaged
	6 Fluorene	11355	11021	0.010	2.94028	15.00000	Averaged
	7 Phenanthrene	26879	25812	0.010	3.96979	15.00000	Averaged
	8 Anthracene	56532	52796	0.010	6.60745	15.00000	Averaged
	9 Fluoranthene	6826	6660	0.010	2.42638	15.00000	Averaged
	10 Pyrene	6108	5921	0.010	3.05868	15.00000	Averaged
$	11 p-Terphenyl	7234	7221	0.010	0.17735	15.00000	Averaged
	12 Benzo(a)Anthracene	16354	16644	0.010	-1.76798	15.00000	Averaged
	13 Chrysene	27294	27140	0.010	0.56528	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20377	19808	0.010	2.79174	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12571	11457	0.010	8.86198	15.00000	Averaged
	16 Benzo(a)Pyrene	17618	16898	0.010	4.09145	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4181	4651	0.010	-11.25543	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6671	7596	0.010	-13.85668	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14095	14270	0.010	-1.23761	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.00754
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225.b/h0000445.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 25-FEB-2005 12:48
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-14-1
Comment :
Method : /var/chem/hplc1.i/050225.b/flpnauv.m
Meth Date : 25-Feb-2005 14:22 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.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	0.994	0.994	0.000	6374	2.50000	2.35(M)
2 Acenaphthylene	1.208	1.208	0.000	4200	2.50000	2.33(M)
3 1-Methynaphthalene	1.334	1.334	0.000	3320	2.50000	2.29(M)
4 2-Methylnaphthalene	1.414	1.414	0.000	5255	2.50000	2.63(M)
5 Acenaphthene	1.488	1.488	0.000	2229	2.50000	2.37(M)
6 Fluorene	1.587	1.587	0.000	27552	2.50000	2.43(M)
7 Phenanthrene	1.821	1.821	0.000	64529	2.50000	2.40
8 Anthracene	2.054	2.054	0.000	131991	2.50000	2.33
9 Fluoranthene	2.294	2.294	0.000	16651	2.50000	2.44
10 Pyrene	2.467	2.467	0.000	14802	2.50000	2.42
$ 11 p-Terphenyl	2.921	2.921	0.000	18052	2.50000	2.50
12 Benzo(a)Anthracene	3.101	3.101	0.000	41609	2.50000	2.54(M)
13 Chrysene	3.261	3.261	0.000	67849	2.50000	2.49(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
14 Benzo(b)Fluoranthene	3.748	3.748	0.000	49521	2.50000	2.43
15 Benzo(k)Fluoranthene	4.001	4.001	0.000	28643	2.50000	2.28
16 Benzo(a)Pyrene	4.181	4.181	0.000	42244	2.50000	2.40
17 Dibenzo(a,h)Anthracene	4.494	4.494	0.000	11628	2.50000	2.78(M)
18 Benzo(g,h,i)Perylene	4.641	4.641	0.000	18989	2.50000	2.85(M)
19 Indeno(1,2,3-c,d)Pyrene	4.808	4.808	0.000	35674	2.50000	2.53(M)

QC Flag Legend

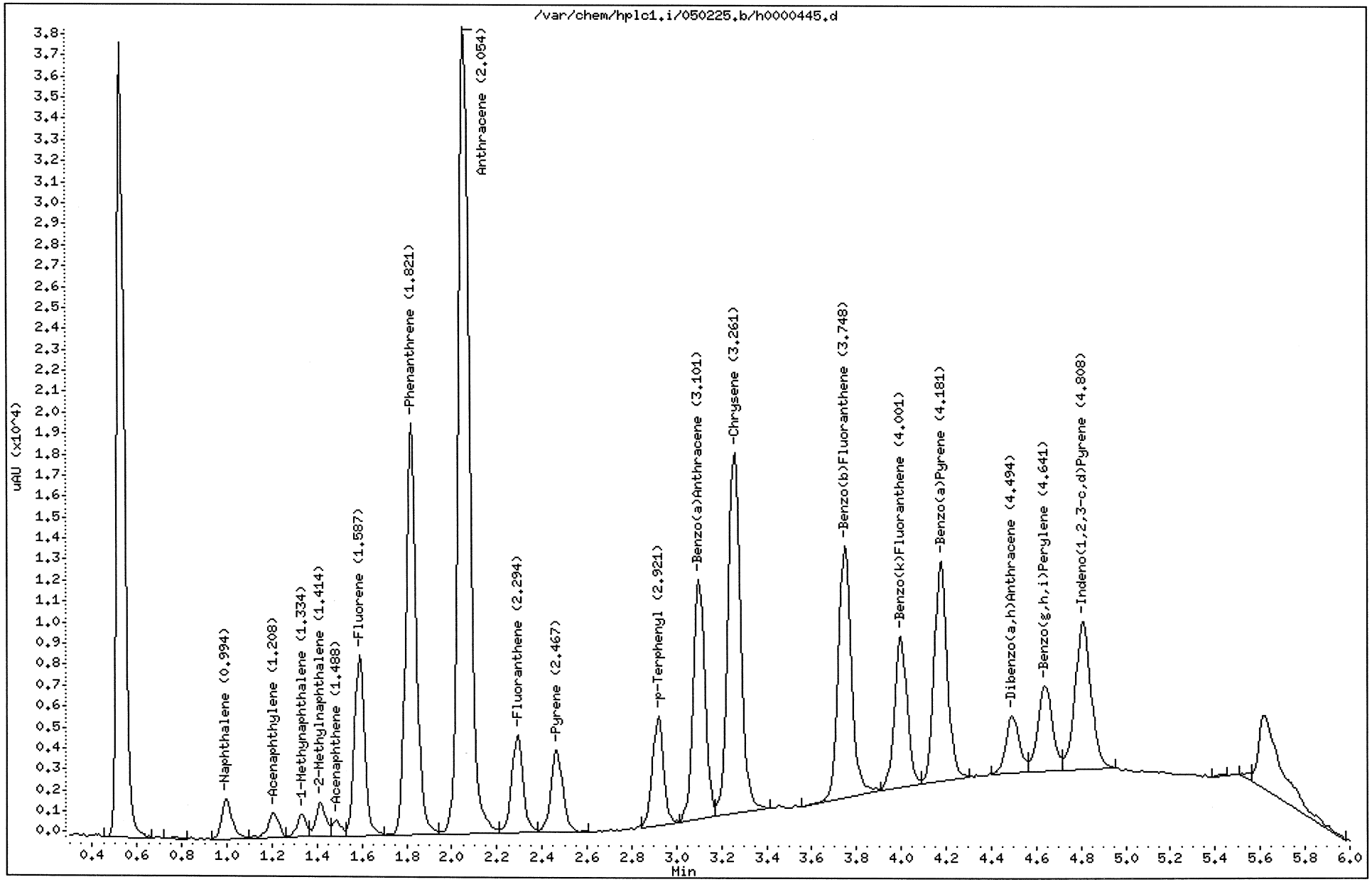
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225.b/h0000445.d
Date : 25-FEB-2005 12:48
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000311



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/041007F.b/flpnafld.m
Cal Date : 05-Jan-2005 10:34 rlw

Calibration File Names:
Level 1: /var/chem/hplc1.i/041007F.b/h0008223.d
Level 2: /var/chem/hplc1.i/041007F.b/h0008224.d
Level 3: /var/chem/hplc1.i/041007F.b/h0008225.d
Level 4: /var/chem/hplc1.i/041007F.b/h0008226.d
Level 5: /var/chem/hplc1.i/041007F.b/h0008227.d
Level 6: /var/chem/hplc1.i/041007F.b/h0008228.d
Level 7: /var/chem/hplc1.i/041007F.b/h0008229.d
Level 8: /var/chem/hplc1.i/041007F.b/h0008230.d

Compound	0.1000 Level 1 / 10 Level 7	0.2500 Level 2 / 20 Level 8	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
1 Naphthalene	+++++	7748	11554	10548	10004	9985					
	9464	9525					AVRG		9833		11.81943
3 1-Methynaphthalene	+++++	+++++	+++++	1793	2044	1998					
	1812	1959					AVRG		1921		5.84952
4 2-Methylnaphthalene	+++++	+++++	1322	1384	1652	1569					
	1548	1566					AVRG		1507		8.36795
5 Acenaphthene	+++++	+++++	+++++	3231	3659	3619					
	3557	3692					AVRG		3551		5.23733
7 Phenanthrene	13230	14124	13532	14453	14133	14421					
	14374	14260					AVRG		14066		3.17950

000312

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/041007F.b/flpnafld.m
Cal Date : 05-Jan-2005 10:34 rlw

Compound	0.1000 Level 1 / 10 Level 7	0.2500 Level 2 / 20 Level 8	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
8 Anthracene	5660	5180	5594	5424	5580	5682					
	5622	5446					AVRG		5524		3.02620
9 Fluoranthene	5040	4180	4556	4609	4589	4581					
	4611	4535					AVRG		4588		5.04901
10 Pyrene	31760	30116	29040	30266	30141	29604					
	29570	+++++					AVRG		30071		2.85720
12 Benzo(a)Anthracene	20850	22136	23398	24735	24531	24386					
	24141	+++++					AVRG		23454		6.19414
13 Chrysene	203	482	1184	2709	8307	16453					
	34739	69036					LINR	0.13830	3481		0.99985
14 Benzo(b)Fluoranthene	17840	18028	19040	19545	20164	20155					
	20180	+++++					AVRG		19279		5.24106
15 Benzo(k)Fluoranthene	44150	43340	43962	44950	44441	44340					
	40294	+++++					AVRG		43640		3.56157
16 Benzo(a)Pyrene	35280	35880	36984	38198	38877	38535					
	37770	+++++					AVRG		37361		3.65876
17 Dibenzo(a,h)Anthracene	13270	14208	14662	15001	14354	14414					
	14564	14118					AVRG		14324		3.54602

000313

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/041007F.b/flpnafld.m
Cal Date : 05-Jan-2005 10:34 rlw

Compound	0.1000 Level 1	0.2500 Level 2	0.5000 Level 3	1 Level 4	2 Level 5	5 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	10 Level 7	20 Level 8									
18 Benzo(g,h,i)Perylene	11340	11004	12346	12612	12266	12258					
	12542	12260					AVRG		12078		4.81845
19 Indeno(1,2,3-c,d)Pyrene	+++++	2620	3092	3408	3367	3513					
	4050	4006					AVRG		3437		14.54009
$ 11 p-Terphenyl	+++++	5156	6232	7276	7462	7630					
	7712	7540					AVRG		7001		13.64363

000314

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-JAN-2004 15:08
End Cal Date : 07-OCT-2004 12:08
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/041007F.b/flpnafld.m
Cal Date : 05-Jan-2005 10:34 rlw

Average %RSD Results.
Calculated Average %RSD = 7.14886999
Maximun Average %RSD = 20
* Passed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response

000315

GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008223.d
Lab Smp Id: 8310STD00.1 Client Smp ID: 8310STD00.1
Inj Date : 07-OCT-2004 11:19
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD00.1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:19 Cal File: h0008223.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.020	1.017	0.003	1579	0.10000	0.161
7 Phenanthrene	1.853	1.847	0.006	1323	0.10000	0.0941
8 Anthracene	2.093	2.087	0.006	566	0.10000	0.102(M)
9 Fluoranthene	2.330	2.323	0.007	504	0.10000	0.110(M)
10 Pyrene	2.503	2.520	-0.017	3176	0.10000	0.106
12 Benzo(a)Anthracene	3.147	3.153	-0.006	2085	0.10000	0.0889(M)
13 Chrysene	3.303	3.293	0.010	203	0.10000	0.0719(M)
14 Benzo(b)Fluoranthene	3.803	3.797	0.006	1784	0.10000	0.0925
15 Benzo(k)Fluoranthene	4.047	4.067	-0.020	4415	0.10000	0.101
16 Benzo(a)Pyrene	4.223	4.240	-0.017	3528	0.10000	0.0944
17 Dibenzo(a,h)Anthracene	4.540	4.523	0.017	1327	0.10000	0.0926
18 Benzo(g,h,i)Perylene	4.690	4.667	0.023	1134	0.10000	0.0939(M)
19 Indeno(1,2,3-c,d)Pyrene	4.847	4.840	0.007	189	0.10000	0.0550(M)

QC Flag Legend

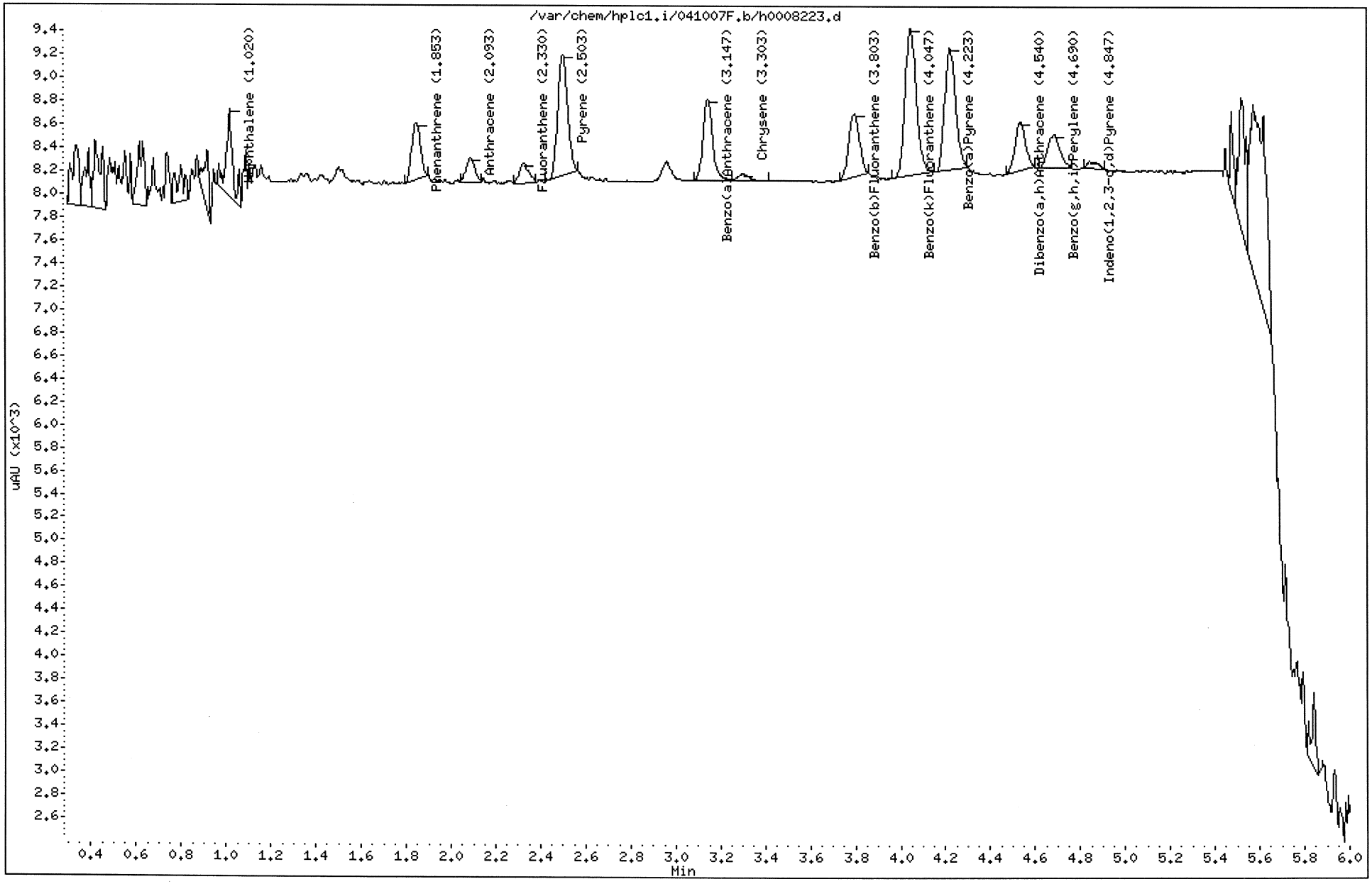
M - Compound response manually integrated.

000318

Data File: /var/chem/hplc1.i/041007F.b/h0008223.d
Date : 07-OCT-2004 11:19
Client ID: 8310STD00.1
Sample Info: 8310STD00.1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008224.d
Lab Smp Id: 8310STD0.25 Client Smp ID: 8310STD0.25
Inj Date : 07-OCT-2004 11:26
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD0.25
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:26 Cal File: h0008224.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.013	1.017	-0.004	1937	0.25000	0.197
5 Acenaphthene	1.503	1.507	-0.004	699	0.25000	0.197
7 Phenanthrene	1.850	1.847	0.003	3531	0.25000	0.251
8 Anthracene	2.087	2.087	0.000	1295	0.25000	0.234
9 Fluoranthene	2.323	2.323	0.000	1045	0.25000	0.228
10 Pyrene	2.497	2.520	-0.023	7529	0.25000	0.250
$ 11 p-Terphenyl	2.957	2.953	0.004	1289	0.25000	0.184
12 Benzo(a)Anthracene	3.137	3.153	-0.016	5534	0.25000	0.236(M)
13 Chrysene	3.297	3.293	0.004	482	0.25000	0.171(M)
14 Benzo(b)Fluoranthene	3.787	3.797	-0.010	4507	0.25000	0.234
15 Benzo(k)Fluoranthene	4.037	4.067	-0.030	10835	0.25000	0.248
16 Benzo(a)Pyrene	4.213	4.240	-0.027	8970	0.25000	0.240
17 Dibenzo(a,h)Anthracene	4.530	4.523	0.007	3552	0.25000	0.248
18 Benzo(g,h,i)Perylene	4.670	4.667	0.003	2751	0.25000	0.228

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
19 Indeno(1,2,3-c,d)Pyrene	4.840	4.840	0.000	655	0.25000	0.191(M)

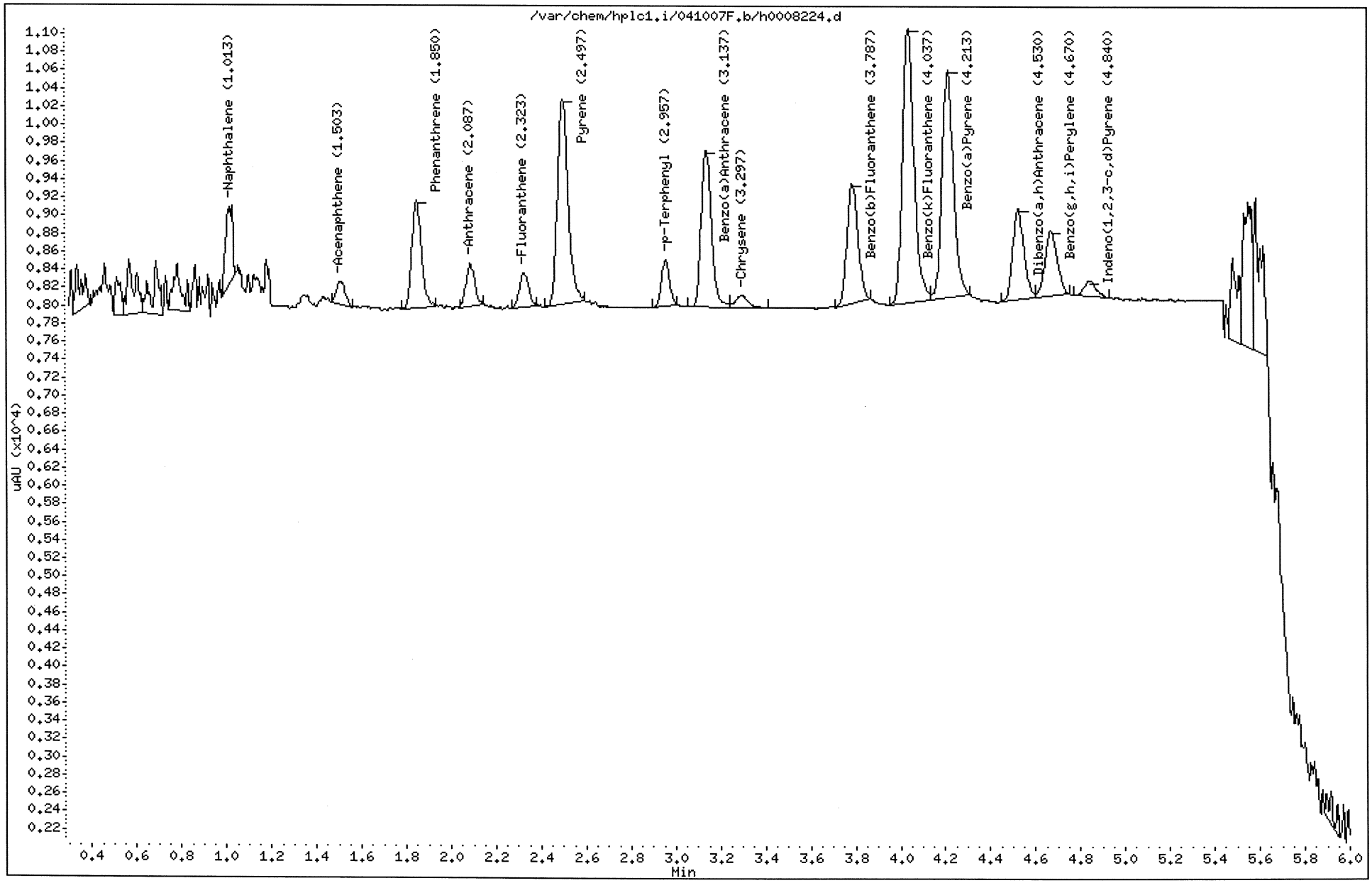
QC Flag Legend

M - Compound response manually integrated.

000321

Data File: /var/chem/hplc1.i/041007F.b/h0008224.d
Date : 07-OCT-2004 11:26
Client ID: 8310STD0.25
Sample Info: 8310STD0.25
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: RLW
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008225.d
Lab Smp Id: 8310STD0.50 Client Smp ID: 8310STD0.50
Inj Date : 07-OCT-2004 11:33
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD0.50
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:33 Cal File: h0008225.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.017	1.017	0.000	5777	0.50000	0.588
3 1-Methynaphthalene	1.353	1.353	0.000	843	0.50000	0.439
4 2-Methylnaphthalene	1.443	1.437	0.006	661	0.50000	0.428
5 Acenaphthene	1.513	1.507	0.006	1658	0.50000	0.467
7 Phenanthrene	1.850	1.847	0.003	6766	0.50000	0.481
8 Anthracene	2.093	2.087	0.006	2797	0.50000	0.506
9 Fluoranthene	2.333	2.323	0.010	2278	0.50000	0.497
10 Pyrene	2.503	2.520	-0.017	14520	0.50000	0.483
$ 11 p-Terphenyl	2.963	2.953	0.010	3116	0.50000	0.445
12 Benzo(a)Anthracene	3.147	3.153	-0.006	11699	0.50000	0.499(M)
13 Chrysene	3.307	3.293	0.014	1184	0.50000	0.420(M)
14 Benzo(b)Fluoranthene	3.800	3.797	0.003	9520	0.50000	0.494
15 Benzo(k)Fluoranthene	4.047	4.067	-0.020	21981	0.50000	0.504
16 Benzo(a)Pyrene	4.223	4.240	-0.017	18492	0.50000	0.495

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.540	4.523	0.017	7331	0.50000	0.512
18 Benzo(g,h,i)Perylene	4.687	4.667	0.020	6173	0.50000	0.511
19 Indeno(1,2,3-c,d)Pyrene	4.860	4.840	0.020	1546	0.50000	0.450

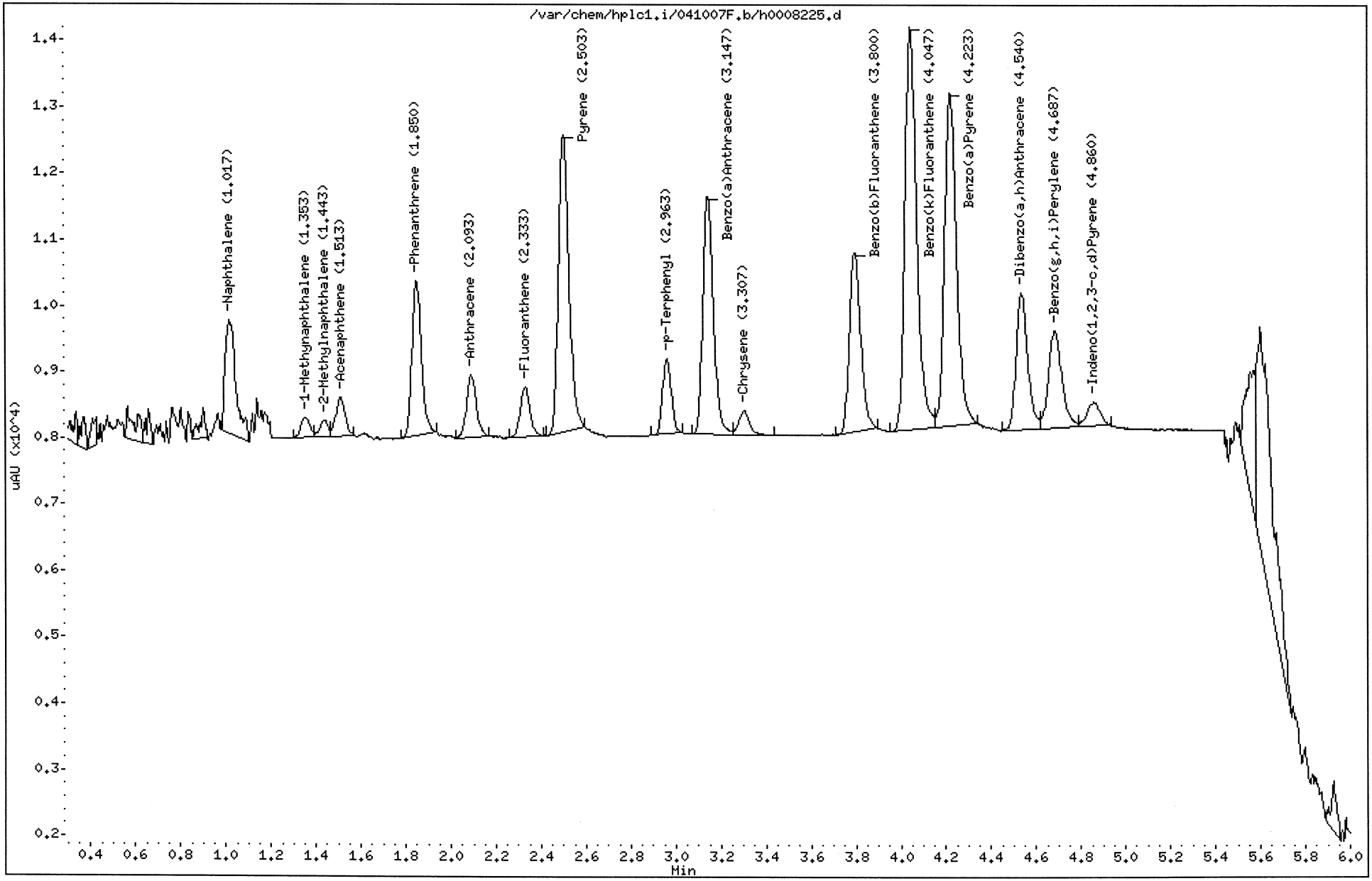
QC Flag Legend

M - Compound response manually integrated.

000324

Data File: /var/chem/hplc1.i/041007F.b/h0008225.d
Date : 07-OCT-2004 11:33
Client ID: 8310STD0.50
Sample Info: 8310STD0.50
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: RLW
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008226.d
Lab Smp Id: 8310SATD001 Client Smp ID: 8310SATD001
Inj Date : 07-OCT-2004 11:40
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310SATD001
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:40 Cal File: h0008226.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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

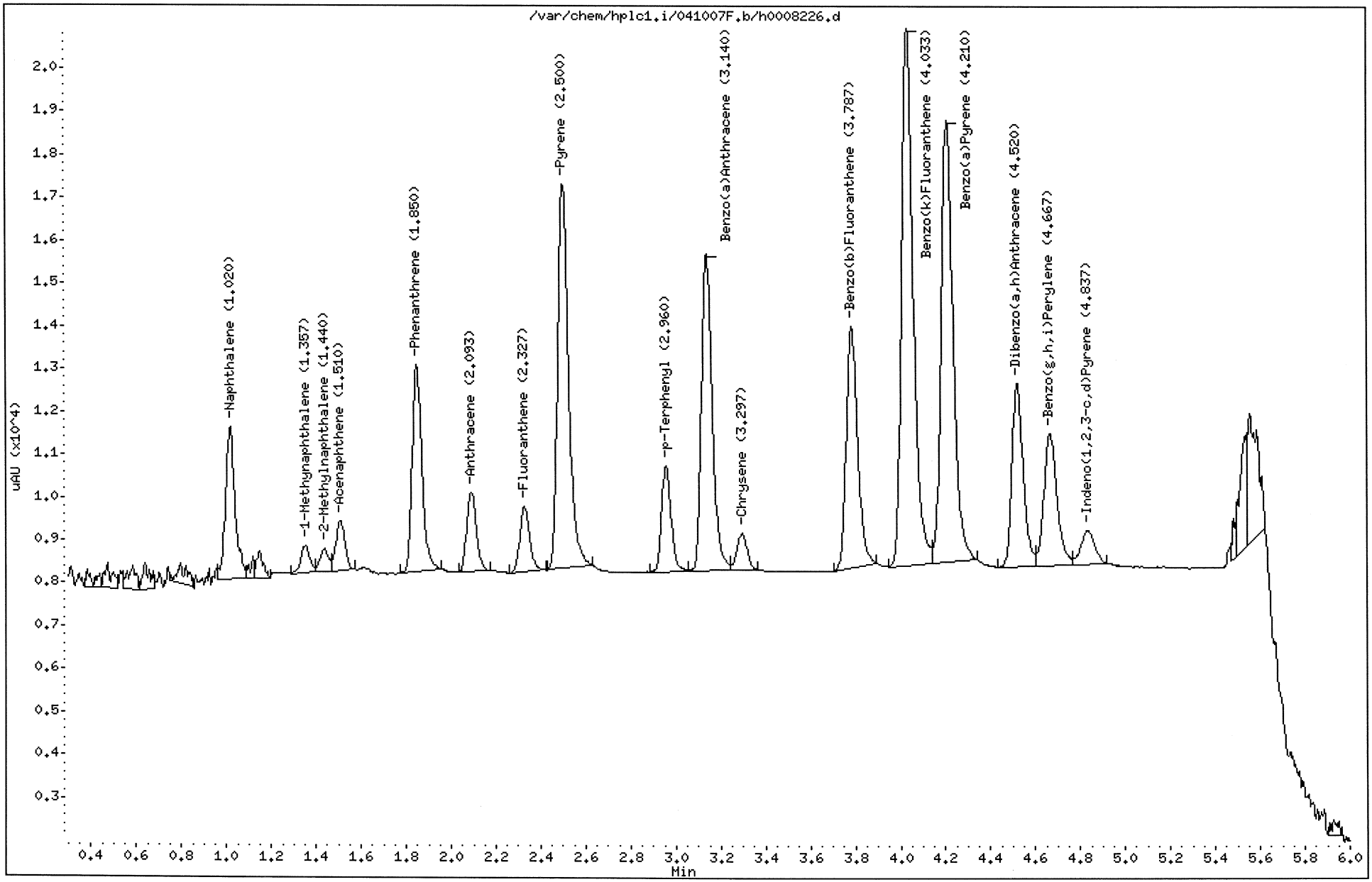
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.020	1.017	0.003	10548	1.00000	1.07
3 1-Methynaphthalene	1.357	1.353	0.004	1793	1.00000	0.933
4 2-Methylnaphthalene	1.440	1.437	0.003	1384	1.00000	0.896
5 Acenaphthene	1.510	1.507	0.003	3231	1.00000	0.910
7 Phenanthrene	1.850	1.847	0.003	14453	1.00000	1.03
8 Anthracene	2.093	2.087	0.006	5424	1.00000	0.982
9 Fluoranthene	2.327	2.323	0.004	4609	1.00000	1.00
10 Pyrene	2.500	2.520	-0.020	30266	1.00000	1.01
$ 11 p-Terphenyl	2.960	2.953	0.007	7276	1.00000	1.04
12 Benzo(a)Anthracene	3.140	3.153	-0.013	24735	1.00000	1.05
13 Chrysene	3.297	3.293	0.004	2709	1.00000	0.960
14 Benzo(b)Fluoranthene	3.787	3.797	-0.010	19545	1.00000	1.01
15 Benzo(k)Fluoranthene	4.033	4.067	-0.034	44950	1.00000	1.03
16 Benzo(a)Pyrene	4.210	4.240	-0.030	38198	1.00000	1.02

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.520	4.523	-0.003	15001	1.00000	1.05
18 Benzo(g,h,i)Perylene	4.667	4.667	0.000	12612	1.00000	1.04
19 Indeno(1,2,3-c,d)Pyrene	4.837	4.840	-0.003	3408	1.00000	0.992

Data File: /var/chem/hplc1.i/041007F.b/h0008226.d
Date : 07-OCT-2004 11:40
Client ID: 8310SATD001
Sample Info: 8310SATD001
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: RLW
Column diameter: 2.10

000327



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008227.d
Lab Smp Id: 8310STD02.5 Client Smp ID: 8310STD02.5
Inj Date : 07-OCT-2004 11:47
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD02.5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:47 Cal File: h0008227.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.017	1.017	0.000	25010	2.50000	2.54
3 1-Methynaphthalene	1.353	1.353	0.000	5109	2.50000	2.66
4 2-Methylnaphthalene	1.437	1.437	0.000	4131	2.50000	2.68
5 Acenaphthene	1.507	1.507	0.000	9147	2.50000	2.58
7 Phenanthrene	1.847	1.847	0.000	35333	2.50000	2.51
8 Anthracene	2.087	2.087	0.000	13950	2.50000	2.53
9 Fluoranthene	2.323	2.323	0.000	11473	2.50000	2.50
10 Pyrene	2.497	2.520	-0.023	75353	2.50000	2.51
$ 11 p-Terphenyl	2.957	2.953	0.004	18654	2.50000	2.66(M)
12 Benzo(a)Anthracene	3.140	3.153	-0.013	61328	2.50000	2.61(M)
13 Chrysene	3.297	3.293	0.004	8307	2.50000	2.94(M)
14 Benzo(b)Fluoranthene	3.790	3.797	-0.007	50410	2.50000	2.61
15 Benzo(k)Fluoranthene	4.037	4.067	-0.030	111103	2.50000	2.55
16 Benzo(a)Pyrene	4.213	4.240	-0.027	97192	2.50000	2.60

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.527	4.523	0.004	35885	2.50000	2.51
18 Benzo(g,h,i)Perylene	4.677	4.667	0.010	30664	2.50000	2.54
19 Indeno(1,2,3-c,d)Pyrene	4.847	4.840	0.007	8417	2.50000	2.45

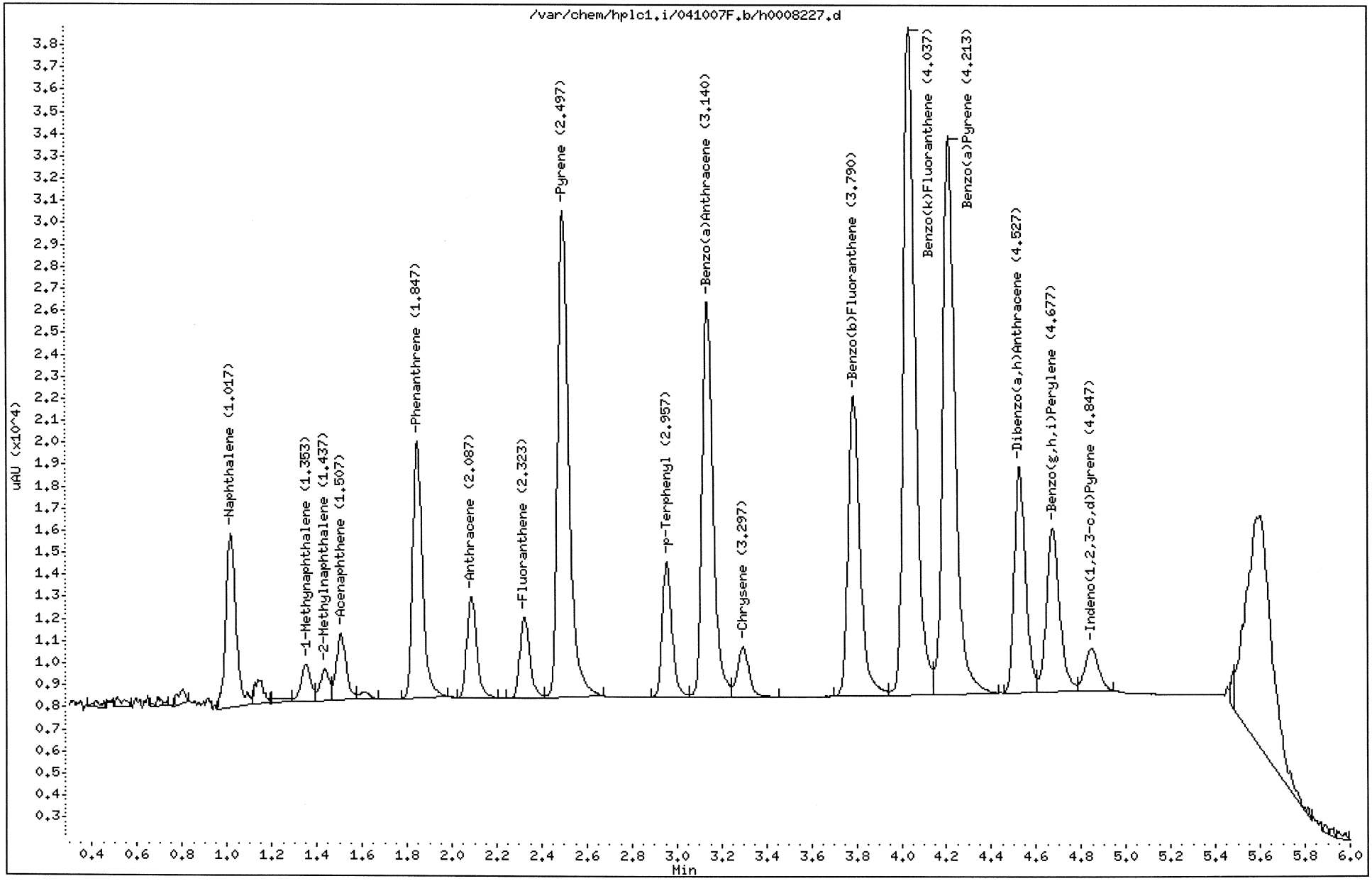
QC Flag Legend

M - Compound response manually integrated.

000330

Data File: /var/chem/hplc1.i/041007F.b/h0008227.d
Date : 07-OCT-2004 11:47
Client ID: 8310STD02.5
Sample Info: 8310STD02.5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: RLW
Column diameter: 2.10



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008228.d
Lab Smp Id: 8310STD005 Client Smp ID: 8310STD005
Inj Date : 07-OCT-2004 11:54
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD005
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 11:54 Cal File: h0008228.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.020	1.017	0.003	49926	5.00000	5.08
3 1-Methynaphthalene	1.353	1.353	0.000	9988	5.00000	5.20
4 2-Methylnaphthalene	1.440	1.437	0.003	7843	5.00000	5.08
5 Acenaphthene	1.510	1.507	0.003	18093	5.00000	5.09
7 Phenanthrene	1.850	1.847	0.003	72105	5.00000	5.13
8 Anthracene	2.093	2.087	0.006	28412	5.00000	5.14
9 Fluoranthene	2.330	2.323	0.007	22907	5.00000	4.99
10 Pyrene	2.503	2.520	-0.017	148020	5.00000	4.92
$ 11 p-Terphenyl	2.963	2.953	0.010	38148	5.00000	5.45
12 Benzo(a)Anthracene	3.147	3.153	-0.006	121932	5.00000	5.20
13 Chrysene	3.307	3.293	0.014	16453	5.00000	5.83
14 Benzo(b)Fluoranthene	3.797	3.797	0.000	100775	5.00000	5.23
15 Benzo(k)Fluoranthene	4.047	4.067	-0.020	221698	5.00000	5.08
16 Benzo(a)Pyrene	4.223	4.240	-0.017	192677	5.00000	5.16

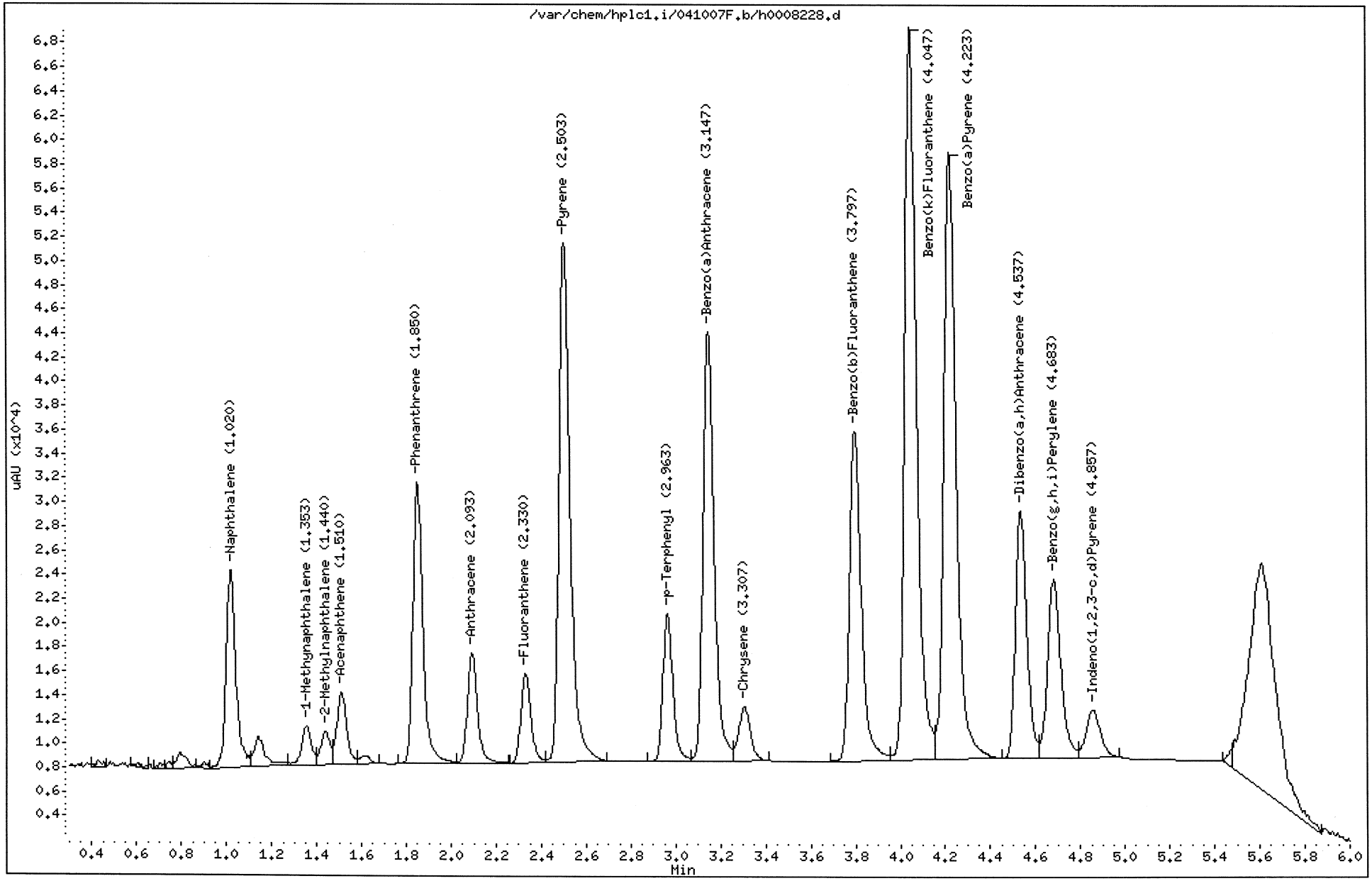
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.537	4.523	0.014	72072	5.00000	5.03
18 Benzo(g,h,i)Perylene	4.683	4.667	0.016	61290	5.00000	5.07
19 Indeno(1,2,3-c,d)Pyrene	4.857	4.840	0.017	17566	5.00000	5.11

Data File: /var/chem/hplc1.i/041007F.b/h0008228.d
Date : 07-OCT-2004 11:54
Client ID: 8310STD005
Sample Info: 8310STD005
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10

000333



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008229.d
Lab Smp Id: 8310STD010 Client Smp ID: 8310STD010
Inj Date : 07-OCT-2004 12:01
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310STD010
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:01 Cal File: h0008229.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.017	1.017	0.000	94638	10.0000	9.62
3 1-Methynaphthalene	1.353	1.353	0.000	18125	10.0000	9.43
4 2-Methylnaphthalene	1.437	1.437	0.000	15482	10.0000	10.0
5 Acenaphthene	1.510	1.507	0.003	35568	10.0000	10.0
7 Phenanthrene	1.847	1.847	0.000	143739	10.0000	10.2
8 Anthracene	2.087	2.087	0.000	56218	10.0000	10.2
9 Fluoranthene	2.327	2.323	0.004	46110	10.0000	10.1
10 Pyrene	2.497	2.520	-0.023	295705	10.0000	9.83
$ 11 p-Terphenyl	2.957	2.953	0.004	77121	10.0000	11.0
12 Benzo(a)Anthracene	3.137	3.153	-0.016	241406	10.0000	10.3
13 Chrysene	3.293	3.293	0.000	34739	10.0000	12.3
14 Benzo(b)Fluoranthene	3.787	3.797	-0.010	201798	10.0000	10.5
15 Benzo(k)Fluoranthene	4.050	4.067	-0.017	402944	10.0000	9.23
16 Benzo(a)Pyrene	4.217	4.240	-0.023	377704	10.0000	10.1

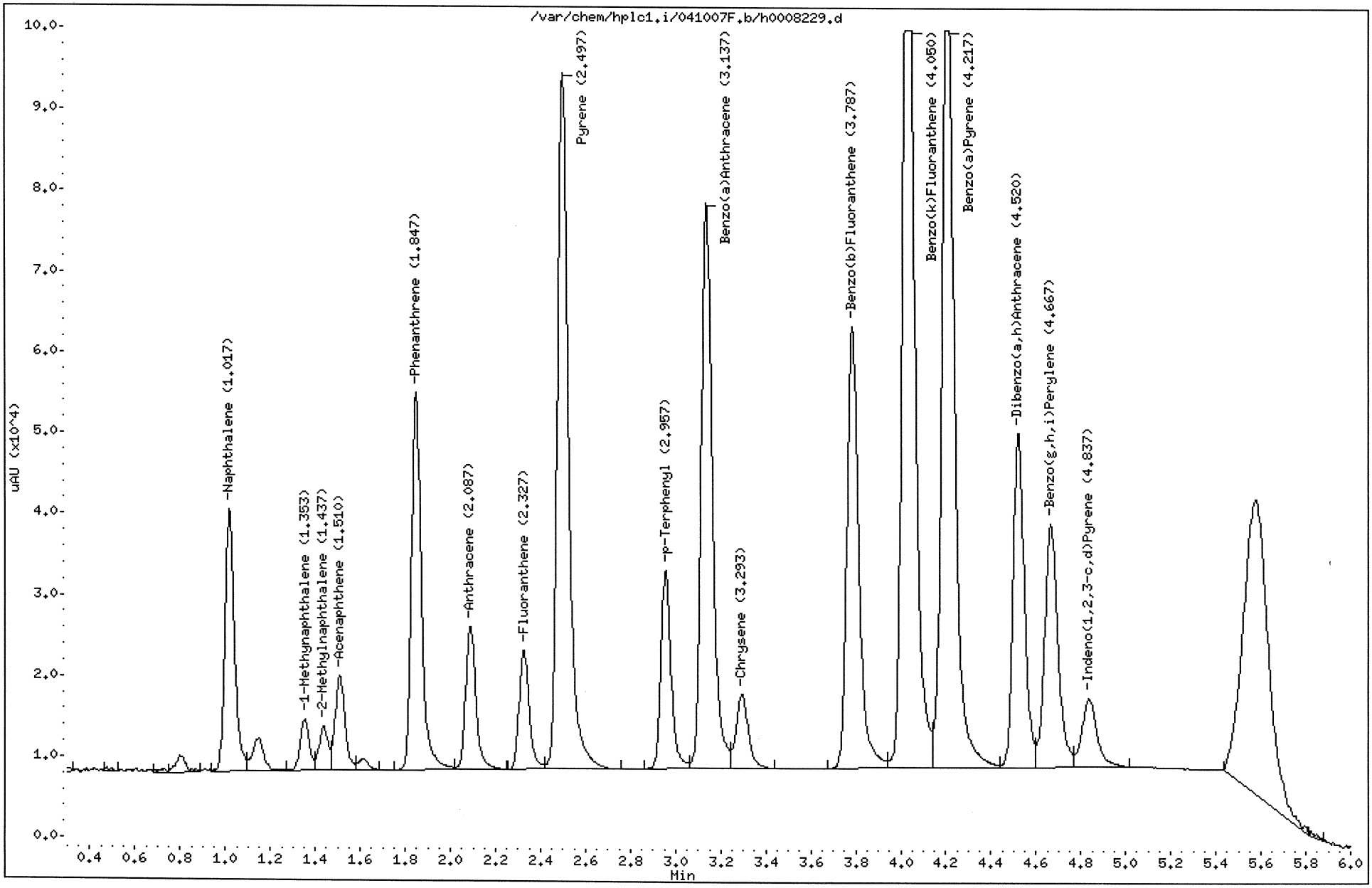
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.520	4.523	-0.003	145635	10.0000	10.2
18 Benzo(g,h,i)Perylene	4.667	4.667	0.000	125418	10.0000	10.4
19 Indeno(1,2,3-c,d)Pyrene	4.837	4.840	-0.003	40501	10.0000	11.8

Data File: /var/chem/hplc1.i/041007F.b/h0008229.d
Date : 07-OCT-2004 12:01
Client ID: 8310STD010
Sample Info: 8310STD010
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10

000336



GCAL, Inc.

Data file : /var/chem/hplc1.i/041007F.b/h0008230.d
Lab Smp Id: 8310DTD020 Client Smp ID: 8310DTD020
Inj Date : 07-OCT-2004 12:08
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310DTD020
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041007F.b/flpnafld.m
Meth Date : 05-Jan-2005 10:34 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

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	1.017	1.017	0.000	190506	20.0000	19.4
3 1-Methynaphthalene	1.353	1.353	0.000	39185	20.0000	20.4
4 2-Methylnaphthalene	1.437	1.437	0.000	31326	20.0000	20.3
5 Acenaphthene	1.507	1.507	0.000	73831	20.0000	20.8
7 Phenanthrene	1.847	1.847	0.000	285195	20.0000	20.3
8 Anthracene	2.087	2.087	0.000	108923	20.0000	19.7
9 Fluoranthene	2.323	2.323	0.000	90706	20.0000	19.8
10 Pyrene	2.520	2.520	0.000	443454	20.0000	14.7
$ 11 p-Terphenyl	2.953	2.953	0.000	150798	20.0000	21.5
12 Benzo(a)Anthracene	3.153	3.153	0.000	401354	20.0000	17.1
13 Chrysene	3.293	3.293	0.000	69036	20.0000	24.5
14 Benzo(b)Fluoranthene	3.797	3.797	0.000	377612	20.0000	19.6
15 Benzo(k)Fluoranthene	4.067	4.067	0.000	529337	20.0000	12.1
16 Benzo(a)Pyrene	4.240	4.240	0.000	524501	20.0000	14.0

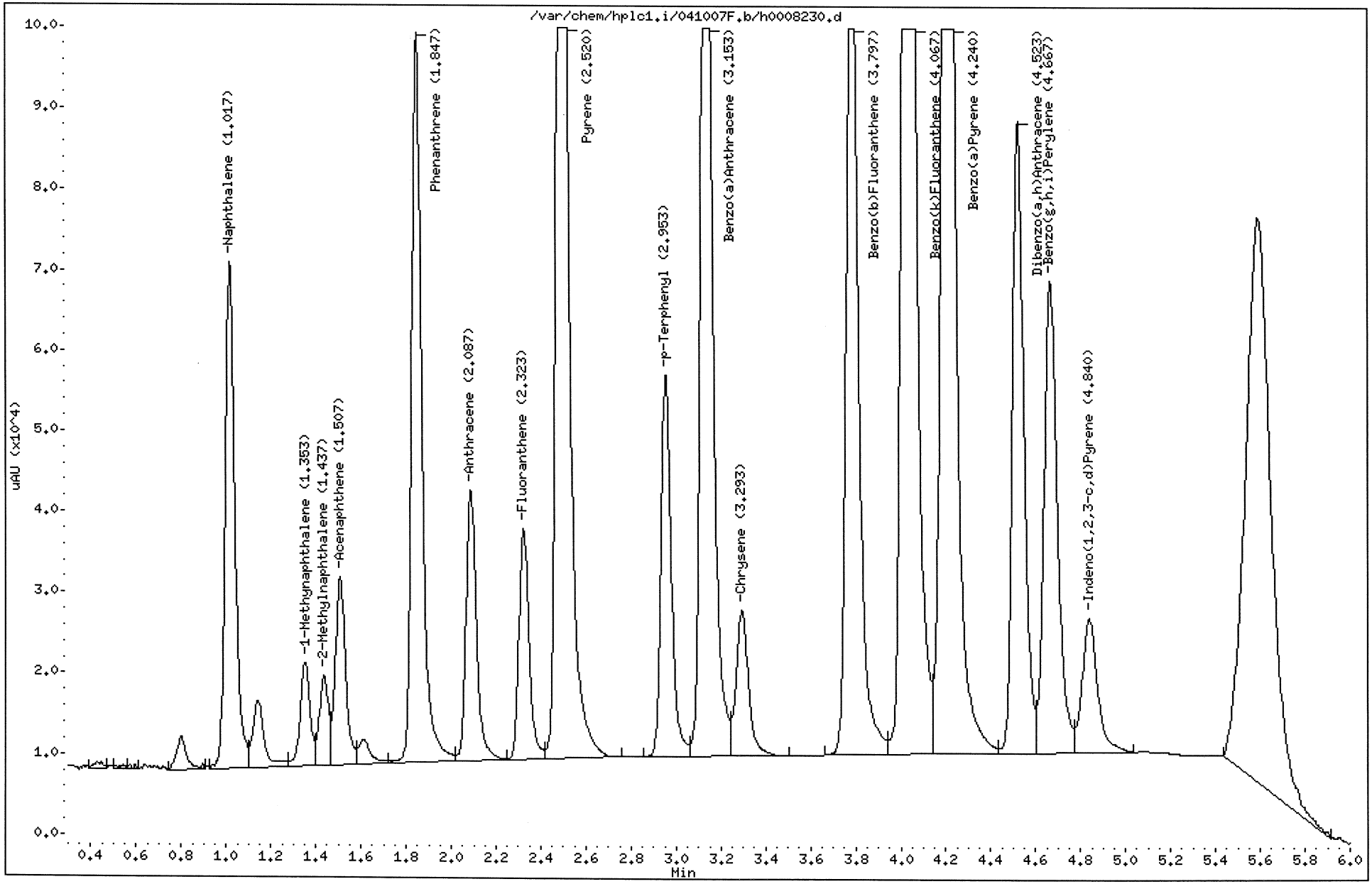
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.523	4.523	0.000	282355	20.0000	19.7
18 Benzo(g,h,i)Perylene	4.667	4.667	0.000	245205	20.0000	20.3
19 Indeno(1,2,3-c,d)Pyrene	4.840	4.840	0.000	80127	20.0000	23.3

Data File: /var/chem/hplc1.i/041007F.b/h0008230.d
Date : 07-OCT-2004 12:08
Client ID: 8310DTD020
Sample Info: 8310DTD020
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10

000339



Data File: /var/chem/hplc1.i/041012F.b/h0008171.d
Report Date: 12-Oct-2004 13:36

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id:
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/041012F.b/flpnafld.m
Misc Info:

Client SDG: 041012
Fraction: OTHER

Operator: rlw
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	2.50	2.47	98.81	80-120
3 1-Methynaphthalene	2.50	2.40	96.19	80-120
4 2-Methylnaphthalen	2.50	2.47	98.69	80-120
5 Acenaphthene	2.50	2.56	102.25	80-120
7 Phenanthrene	2.50	2.52	100.83	80-120
8 Anthracene	2.50	2.44	97.77	80-120
9 Fluoranthene	2.50	2.35	94.19	80-120
10 Pyrene	2.50	2.65	105.98	80-120
12 Benzo(a)Anthracene	2.50	2.59	103.64	80-120
13 Chrysene	2.50	2.37	94.62	80-120
14 Benzo(b)Fluoranthe	2.50	2.65	105.94	80-120
15 Benzo(k)Fluoranthe	2.50	2.58	103.01	80-120
16 Benzo(a)Pyrene	2.50	2.68	107.26	80-120
17 Dibenzo(a,h)Anthra	2.50	2.58	103.10	80-120
18 Benzo(g,h,i)Peryle	2.50	2.67	106.88	80-120
19 Indeno(1,2,3-c,d)P	2.50	2.51	100.51	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	2.00	2.69	134.35	40-140

GCAL, Inc.

Data file : /var/chem/hplc1.i/041012F.b/h0008171.d
Lab Smp Id:
Inj Date : 12-OCT-2004 12:30
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310ICV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/041012F.b/flpnafld.m
Meth Date : 12-Oct-2004 13:36 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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

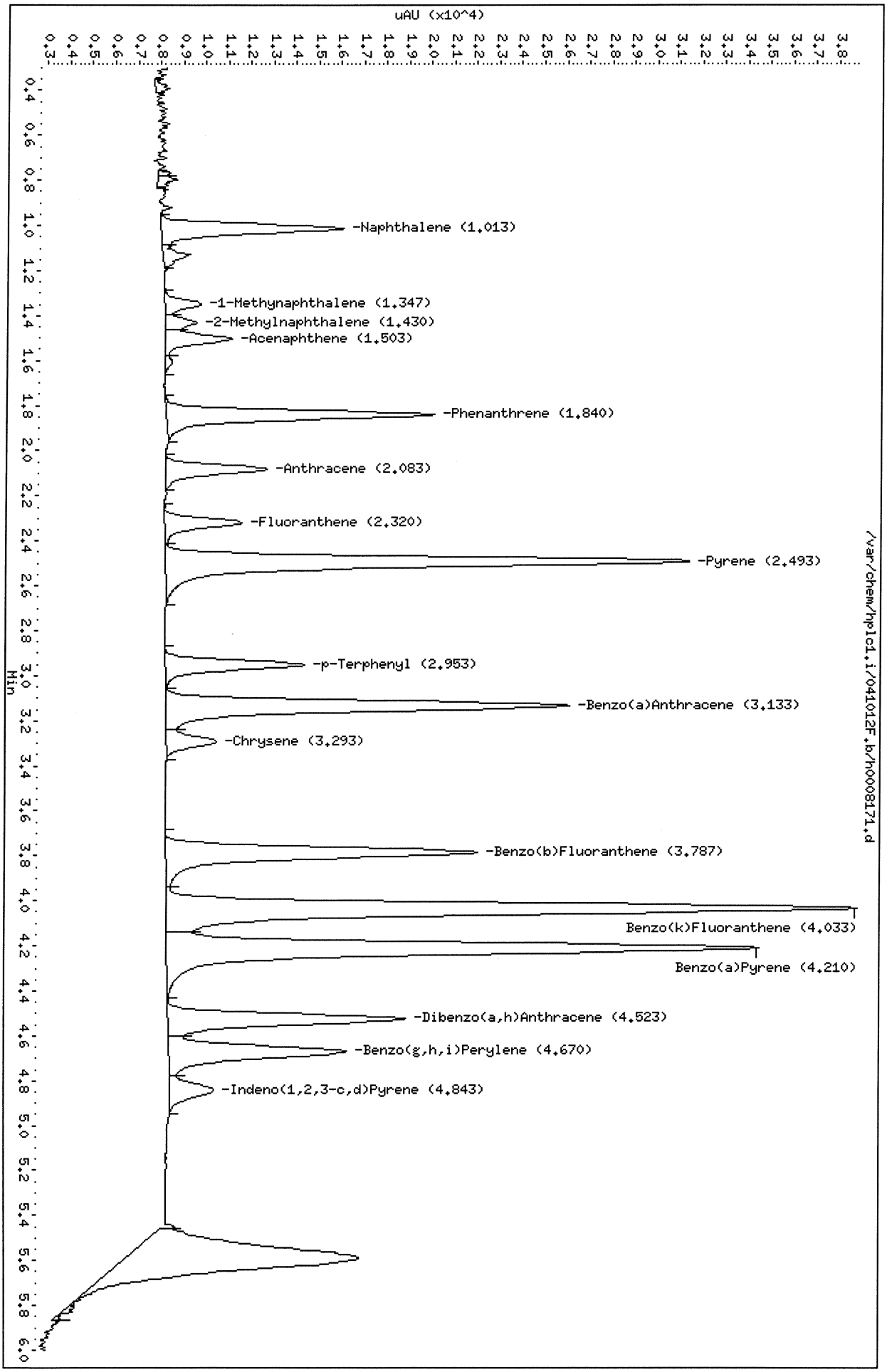
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.013	1.003	0.010	24289	2.47025	2.47
3 1-Methynaphthalene	1.347	1.337	0.010	4620	2.40476	2.40
4 2-Methylnaphthalene	1.430	1.420	0.010	3809	2.46713	2.47
5 Acenaphthene	1.503	1.490	0.013	9078	2.55621	2.56
7 Phenanthrene	1.840	1.817	0.023	35456	2.52071	2.52
8 Anthracene	2.083	2.050	0.033	13501	2.44426	2.44
9 Fluoranthene	2.320	2.283	0.037	10803	2.35476	2.35
10 Pyrene	2.493	2.453	0.040	79677	2.64962	2.65
$ 11 p-Terphenyl	2.953	2.903	0.050	18812	2.68703	2.69
12 Benzo(a)Anthracene	3.133	3.077	0.056	60771	2.59108	2.59
13 Chrysene	3.293	3.230	0.063	7752	2.36546	2.37
14 Benzo(b)Fluoranthene	3.787	3.720	0.067	51059	2.64845	2.65
15 Benzo(k)Fluoranthene	4.033	3.963	0.070	112386	2.57532	2.58

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
16 Benzo(a)Pyrene	4.210	4.143	0.067	100187	2.68162	2.68
17 Dibenzo(a,h)Anthracene	4.523	4.457	0.066	36921	2.57759	2.58
18 Benzo(g,h,i)Perylene	4.670	4.603	0.067	32273	2.67195	2.67
19 Indeno(1,2,3-c,d)Pyrene	4.843	4.757	0.086	8635	2.51263	2.51

Data File: /var/chem/hplc1.i/041012F.b/h0008171.d
Date : 12-OCT-2004 12:30
Client ID:
Sample Info: 8310ICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000408.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050223F.b/flpnafld.m

Injection Date: 23-FEB-2005 15:59
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	9833	10036	10036	0.010	-2.07255	15.00000	Averaged
	3 1-Methynaphthalene	1921	1742	1742	0.010	9.32703	15.00000	Averaged
	4 2-Methylnaphthalene	1507	1312	1312	0.010	12.96135	15.00000	Averaged
	5 Acenaphthene	3551	3234	3234	0.010	8.93604	15.00000	Averaged
	7 Phenanthrene	14066	13666	13666	0.010	2.84274	15.00000	Averaged
	8 Anthracene	5524	5217	5217	0.010	5.55339	15.00000	Averaged
	9 Fluoranthene	4588	3959	3959	0.010	13.70910	15.00000	Averaged
	10 Pyrene	30071	29985	29985	0.010	0.28699	15.00000	Averaged
$	11 p-Terphenyl	7001	7018	7018	0.010	-0.23670	15.00000	Averaged
	12 Benzo(a)Anthracene	23454	21974	21974	0.010	6.31147	15.00000	Averaged
	13 Chrysene	2.20802	2.50000	2882	0.010	11.67911	15.00000	Linear
	14 Benzo(b)Fluoranthene	19279	19331	19331	0.010	-0.26958	15.00000	Averaged
	15 Benzo(k)Fluoranthene	43640	42858	42858	0.010	1.79012	15.00000	Averaged
	16 Benzo(a)Pyrene	37361	38292	38292	0.010	-2.49391	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	14324	14134	14134	0.010	1.32808	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	12078	12249	12249	0.010	-1.41362	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	3437	3372	3372	0.010	1.86915	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.88711
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000408.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 23-FEB-2005 15:59
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-14-1
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 23-Feb-2005 15:56 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.023	1.023	0.000	25091	2.50000	2.55
3 1-Methynaphthalene	1.357	1.357	0.000	4355	2.50000	2.27
4 2-Methylnaphthalene	1.440	1.440	0.000	3279	2.50000	2.18
5 Acenaphthene	1.510	1.510	0.000	8085	2.50000	2.28
7 Phenanthrene	1.847	1.847	0.000	34165	2.50000	2.43
8 Anthracene	2.087	2.087	0.000	13042	2.50000	2.36
9 Fluoranthene	2.317	2.317	0.000	9897	2.50000	2.16(M)
10 Pyrene	2.490	2.490	0.000	74962	2.50000	2.49(M)
$ 11 p-Terphenyl	2.937	2.937	0.000	17544	2.50000	2.51
12 Benzo(a)Anthracene	3.117	3.117	0.000	54934	2.50000	2.34
13 Chrysene	3.270	3.270	0.000	7204	2.50000	2.21
14 Benzo(b)Fluoranthene	3.743	3.743	0.000	48327	2.50000	2.51
15 Benzo(k)Fluoranthene	3.983	3.983	0.000	107146	2.50000	2.46

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.160	4.160	0.000	95731	2.50000	2.56
17 Dibenzo(a,h)Anthracene	4.460	4.460	0.000	35334	2.50000	2.47
18 Benzo(g,h,i)Perylene	4.603	4.603	0.000	30623	2.50000	2.54
19 Indeno(1,2,3-c,d)Pyrene	4.753	4.753	0.000	8431	2.50000	2.45

QC Flag Legend

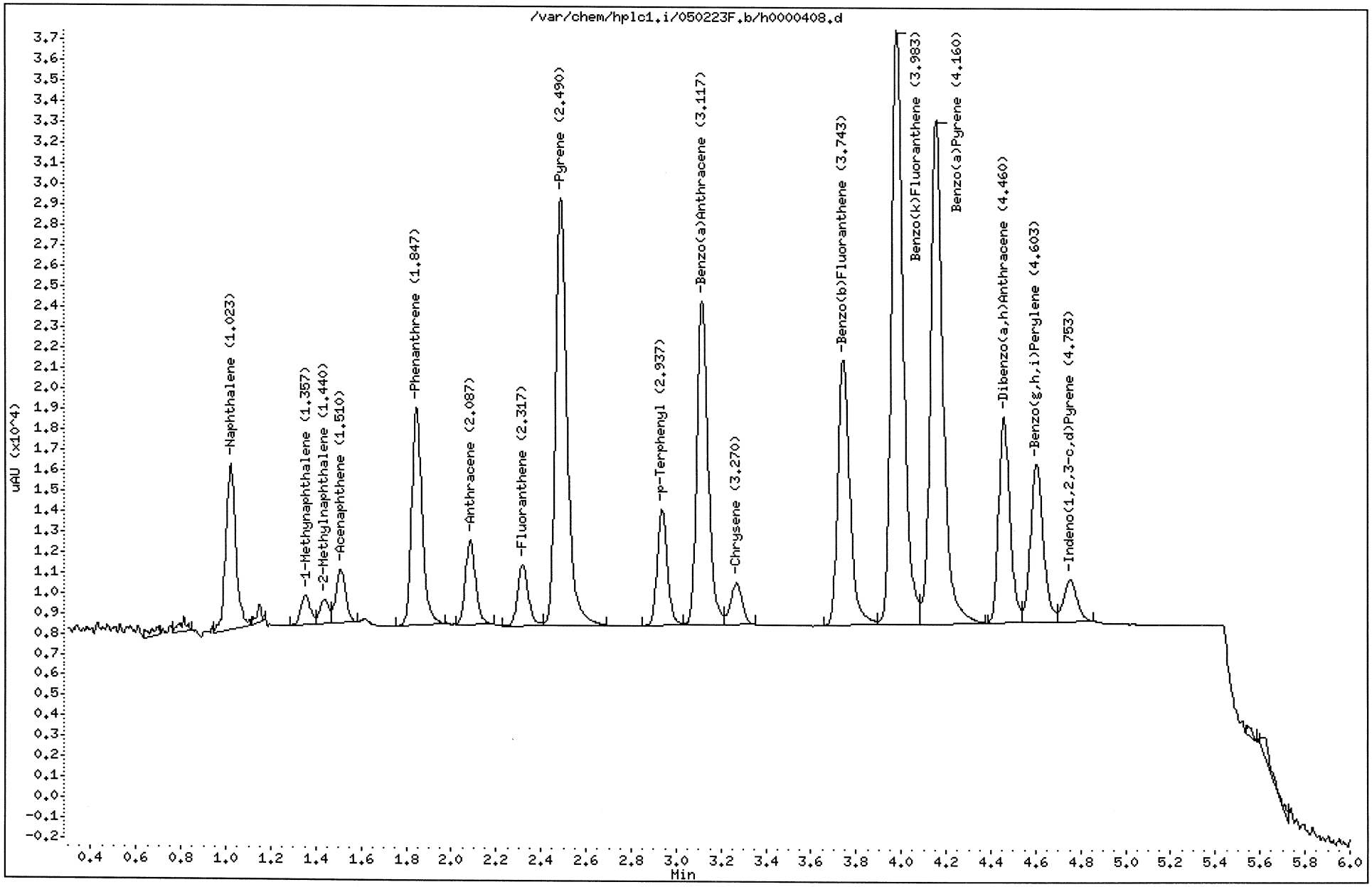
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000408.d
Date : 23-FEB-2005 15:59
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10

000347



Data File: /var/chem/hplc1.i/050223F.b/h0000432.d
Report Date: 25-Feb-2005 08:46

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000432.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050223F.b/flpnafld.m

Injection Date: 23-FEB-2005 19:20
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	9833	9759	9759	0.010	0.75071	15.00000	Averaged
	3 1-Methynaphthalene	1921	1688	1688	0.010	12.13779	15.00000	Averaged
	4 2-Methylnaphthalene	1507	1404	1404	0.010	6.80307	15.00000	Averaged
	5 Acenaphthene	3551	3429	3429	0.010	3.43954	15.00000	Averaged
	7 Phenanthrene	14066	13413	13413	0.010	4.64285	15.00000	Averaged
	8 Anthracene	5524	5593	5593	0.010	-1.25384	15.00000	Averaged
	9 Fluoranthene	4588	3908	3908	0.010	14.82512	15.00000	Averaged
	10 Pyrene	30071	26158	26158	0.010	13.01283	15.00000	Averaged
$	11 p-Terphenyl	7001	7028	7028	0.010	-0.37954	15.00000	Averaged
	12 Benzo(a)Anthracene	23454	20907	20907	0.010	10.85997	15.00000	Averaged
	13 Chrysene	2.14568	2.50000	2795	0.010	14.17289	15.00000	Linear
	14 Benzo(b)Fluoranthene	19279	18161	18161	0.010	5.79718	15.00000	Averaged
	15 Benzo(k)Fluoranthene	43640	41731	41731	0.010	4.37309	15.00000	Averaged
	16 Benzo(a)Pyrene	37361	35585	35585	0.010	4.75221	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	14324	13421	13421	0.010	6.30160	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	12078	10947	10947	0.010	9.36590	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	3437	3465	3465	0.010	-0.83117	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.68819
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050223F.b/h0000432.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 23-FEB-2005 19:20
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050223F.b/flpnafld.m
Meth Date : 25-Feb-2005 08:46 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.010	1.010	0.000	24397	2.50000	2.48
3 1-Methynaphthalene	1.340	1.340	0.000	4220	2.50000	2.20(M)
4 2-Methylnaphthalene	1.420	1.420	0.000	3511	2.50000	2.33(M)
5 Acenaphthene	1.493	1.493	0.000	8573	2.50000	2.41(M)
7 Phenanthrene	1.820	1.820	0.000	33532	2.50000	2.38(M)
8 Anthracene	2.047	2.047	0.000	13982	2.50000	2.53(M)
9 Fluoranthene	2.277	2.277	0.000	9769	2.50000	2.13(M)
10 Pyrene	2.447	2.447	0.000	65395	2.50000	2.17(M)
$ 11 p-Terphenyl	2.883	2.883	0.000	17569	2.50000	2.51
12 Benzo(a)Anthracene	3.057	3.057	0.000	52267	2.50000	2.23
13 Chrysene	3.203	3.203	0.000	6987	2.50000	2.15
14 Benzo(b)Fluoranthene	3.673	3.673	0.000	45403	2.50000	2.36
15 Benzo(k)Fluoranthene	3.907	3.907	0.000	104328	2.50000	2.39

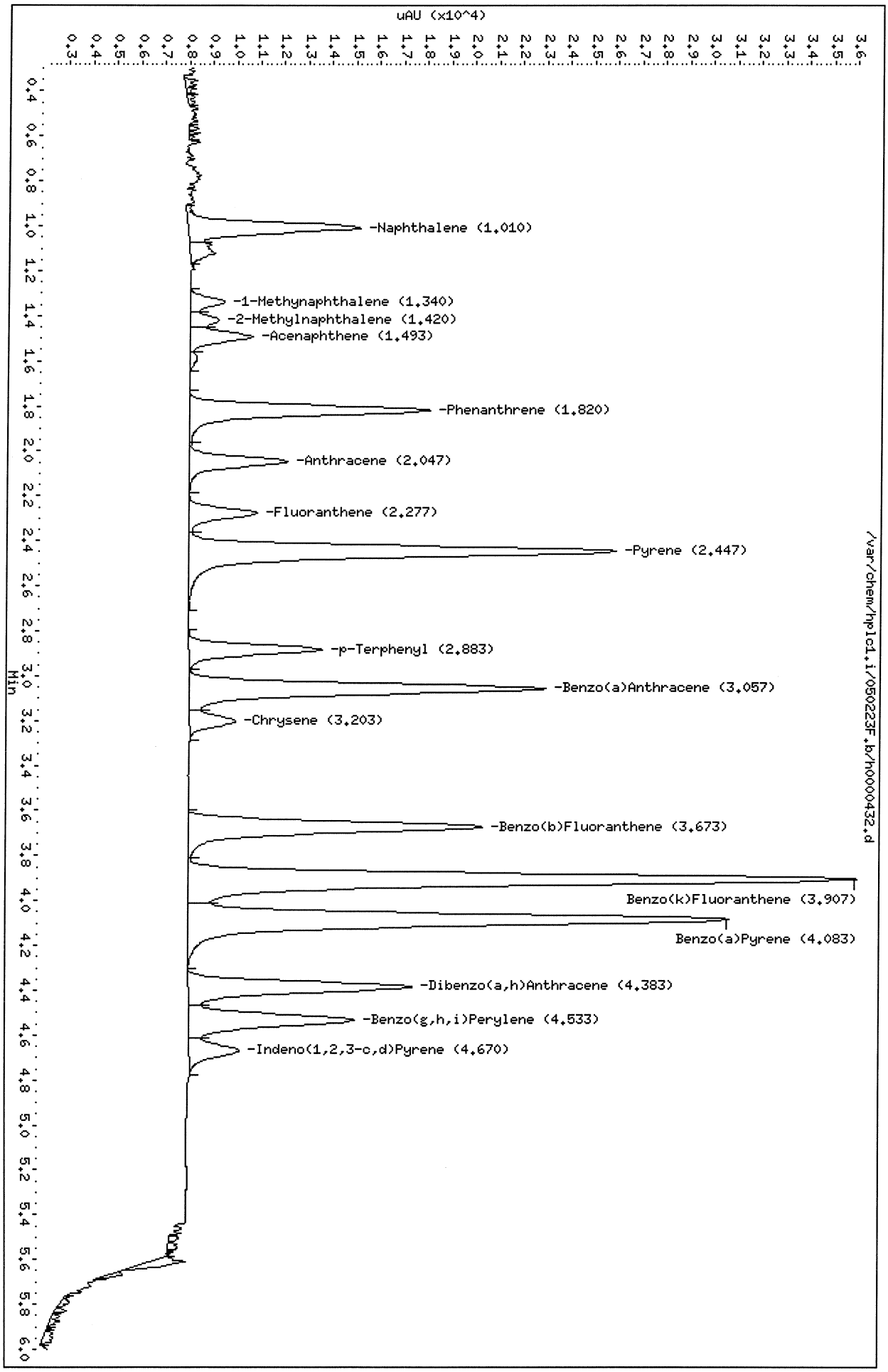
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.083	4.083	0.000	88963	2.50000	2.38
17 Dibenzo(a,h)Anthracene	4.383	4.383	0.000	33553	2.50000	2.34(M)
18 Benzo(g,h,i)Perylene	4.533	4.533	0.000	27368	2.50000	2.27(M)
19 Indeno(1,2,3-c,d)Pyrene	4.670	4.670	0.000	8663	2.50000	2.52(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050223F.b/h0000432.d
Date : 23-FEB-2005 19:20
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i
Operator: rlw
Column diameter: 2.10



Data File: /var/chem/hplc1.i/050225F.b/h0000435.d
Report Date: 25-Feb-2005 09:45

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000435.d
Analysis Type: WATER
Lab Sample ID:
Method: /var/chem/hplc1.i/050225F.b/flpnafld.m

Injection Date: 25-FEB-2005 09:54
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Naphthalene	9833	10352	10352	0.010	-5.27780	15.00000	Averaged
3 1-Methynaphthalene	1921	1796	1796	0.010	6.50586	15.00000	Averaged
4 2-Methylnaphthalene	1507	1395	1395	0.010	7.45606	15.00000	Averaged
5 Acenaphthene	3551	3461	3461	0.010	2.53734	15.00000	Averaged
7 Phenanthrene	14066	14829	14829	0.010	-5.42721	15.00000	Averaged
8 Anthracene	5524	5491	5491	0.010	0.59208	15.00000	Averaged
9 Fluoranthene	4588	4021	4021	0.010	12.35941	15.00000	Averaged
10 Pyrene	30071	33187	33187	0.010	-10.36111	15.00000	Averaged
$ 11 p-Terphenyl	7001	7404	7404	0.010	-5.75189	15.00000	Averaged
12 Benzo(a)Anthracene	23454	23579	23579	0.010	-0.53260	15.00000	Averaged
13 Chrysene	2.42370	2.50000	3182	0.010	3.05201	15.00000	Linear
14 Benzo(b)Fluoranthene	19279	16981	16981	0.010	11.92120	15.00000	Averaged
15 Benzo(k)Fluoranthene	43640	43073	43073	0.010	1.29946	15.00000	Averaged
16 Benzo(a)Pyrene	37361	39810	39810	0.010	-6.55498	15.00000	Averaged
17 Dibenzo(a,h)Anthracene	14324	14881	14881	0.010	-3.89120	15.00000	Averaged
18 Benzo(g,h,i)Perylene	12078	13703	13703	0.010	-13.44860	15.00000	Averaged
19 Indeno(1,2,3-c,d)Pyrene	3437	3505	3505	0.010	-1.99277	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.82127
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225F.b/h0000435.d
Lab Smp Id:
Inj Date : 25-FEB-2005 09:54
Operator : RLW Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info :
Comment :
Method : /var/chem/hplc1.i/050225F.b/flpnafld.m
Meth Date : 25-Feb-2005 09:45 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.003	1.003	0.000	25878	2.50000	2.63
3 1-Methynaphthalene	1.333	1.333	0.000	4490	2.50000	2.34
4 2-Methylnaphthalene	1.417	1.417	0.000	3486	2.50000	2.31
5 Acenaphthene	1.487	1.487	0.000	8653	2.50000	2.44
7 Phenanthrene	1.807	1.807	0.000	37073	2.50000	2.64
8 Anthracene	2.030	2.030	0.000	13727	2.50000	2.49
9 Fluoranthene	2.260	2.260	0.000	10051	2.50000	2.19
10 Pyrene	2.430	2.430	0.000	82967	2.50000	2.76
$ 11 p-Terphenyl	2.860	2.860	0.000	18509	2.50000	2.64
12 Benzo(a)Anthracene	3.033	3.033	0.000	58947	2.50000	2.51
13 Chrysene	3.177	3.177	0.000	7954	2.50000	2.42
14 Benzo(b)Fluoranthene	3.660	3.660	0.000	42451	2.50000	2.20
15 Benzo(k)Fluoranthene	3.897	3.897	0.000	107681	2.50000	2.47

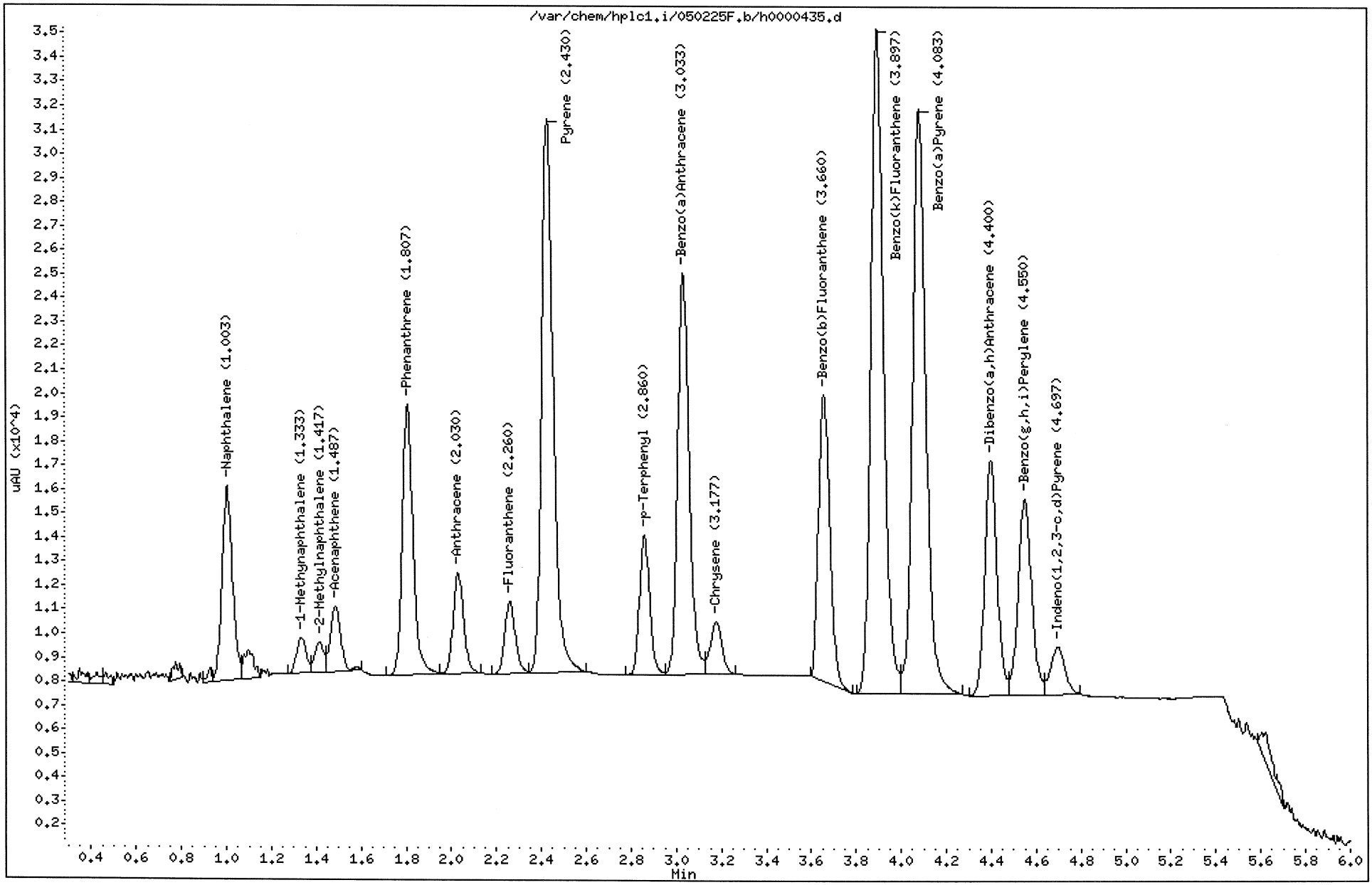
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.083	4.083	0.000	99524	2.50000	2.66
17 Dibenzo(a,h)Anthracene	4.400	4.400	0.000	37203	2.50000	2.60
18 Benzo(g,h,i)Perylene	4.550	4.550	0.000	34257	2.50000	2.84
19 Indeno(1,2,3-c,d)Pyrene	4.697	4.697	0.000	8762	2.50000	2.55

Data File: /var/chem/hplc1.i/050225F.b/h0000435.d
Date : 25-FEB-2005 09:54
Client ID:
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: RLW
Column diameter: 2.10

000355



Data File: /var/chem/hplc1.i/050225F.b/h0000445.d
Report Date: 25-Feb-2005 14:24

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0000445.d
Analysis Type: WATER
Lab Sample ID: 8310CCV
Method: /var/chem/hplc1.i/050225F.b/flpnafld.m

Injection Date: 25-FEB-2005 12:48
Init. Cal. Date(s): 14-JAN-2004 07-OCT-2004
Init. Cal. Times: 15:08 12:08
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	9833	9569	9569	0.010	2.68305	15.00000	Averaged
	3 1-Methynaphthalene	1921	1740	1740	0.010	9.43113	15.00000	Averaged
	4 2-Methylnaphthalene	1507	1354	1354	0.010	10.17420	15.00000	Averaged
	5 Acenaphthene	3551	3183	3183	0.010	10.37774	15.00000	Averaged
	7 Phenanthrene	14066	14277	14277	0.010	-1.49969	15.00000	Averaged
	8 Anthracene	5524	5391	5391	0.010	2.39599	15.00000	Averaged
	9 Fluoranthene	4588	3976	3976	0.010	13.34291	15.00000	Averaged
	10 Pyrene	30071	30534	30534	0.010	-1.53935	15.00000	Averaged
$	11 p-Terphenyl	7001	7206	7206	0.010	-2.93345	15.00000	Averaged
	12 Benzo(a)Anthracene	23454	22734	22734	0.010	3.06937	15.00000	Averaged
	13 Chrysene	2.25198	2.50000	2943	0.010	9.92082	15.00000	Linear
	14 Benzo(b)Fluoranthene	19279	19590	19590	0.010	-1.61406	15.00000	Averaged
	15 Benzo(k)Fluoranthene	43640	43449	43449	0.010	0.43722	15.00000	Averaged
	16 Benzo(a)Pyrene	37361	39169	39169	0.010	-4.84077	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	14324	14746	14746	0.010	-2.94732	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	12078	12846	12846	0.010	-6.35134	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	3437	3386	3386	0.010	1.46177	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.00119
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/hplc1.i/050225F.b/h0000445.d
Lab Smp Id: 8310CCV Client Smp ID: 8310CCV
Inj Date : 25-FEB-2005 12:48
Operator : rlw Inst ID: hplc1.i
Smp Info : 8310CCV
Misc Info : 4-14-1
Comment :
Method : /var/chem/hplc1.i/050225F.b/flpnafld.m
Meth Date : 25-Feb-2005 14:24 rlw Quant Type: ESTD
Cal Date : 07-OCT-2004 12:08 Cal File: h0008230.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	1.013	1.013	0.000	23922	2.50000	2.43
3 1-Methynaphthalene	1.343	1.343	0.000	4350	2.50000	2.26
4 2-Methylnaphthalene	1.430	1.430	0.000	3384	2.50000	2.25
5 Acenaphthene	1.500	1.500	0.000	7957	2.50000	2.24
7 Phenanthrene	1.833	1.833	0.000	35692	2.50000	2.54
8 Anthracene	2.070	2.070	0.000	13478	2.50000	2.44
9 Fluoranthene	2.303	2.303	0.000	9939	2.50000	2.17
10 Pyrene	2.477	2.477	0.000	76335	2.50000	2.54
$ 11 p-Terphenyl	2.930	2.930	0.000	18016	2.50000	2.57
12 Benzo(a)Anthracene	3.113	3.113	0.000	56835	2.50000	2.42(M)
13 Chrysene	3.270	3.270	0.000	7357	2.50000	2.25(M)
14 Benzo(b)Fluoranthene	3.760	3.760	0.000	48975	2.50000	2.54
15 Benzo(k)Fluoranthene	4.010	4.010	0.000	108622	2.50000	2.49(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
16 Benzo(a)Pyrene	4.190	4.190	0.000	97923	2.50000	2.62(M)
17 Dibenzo(a,h)Anthracene	4.507	4.507	0.000	36865	2.50000	2.57(M)
18 Benzo(g,h,i)Perylene	4.653	4.653	0.000	32114	2.50000	2.66(M)
19 Indeno(1,2,3-c,d)Pyrene	4.823	4.823	0.000	8466	2.50000	2.46(M)

QC Flag Legend

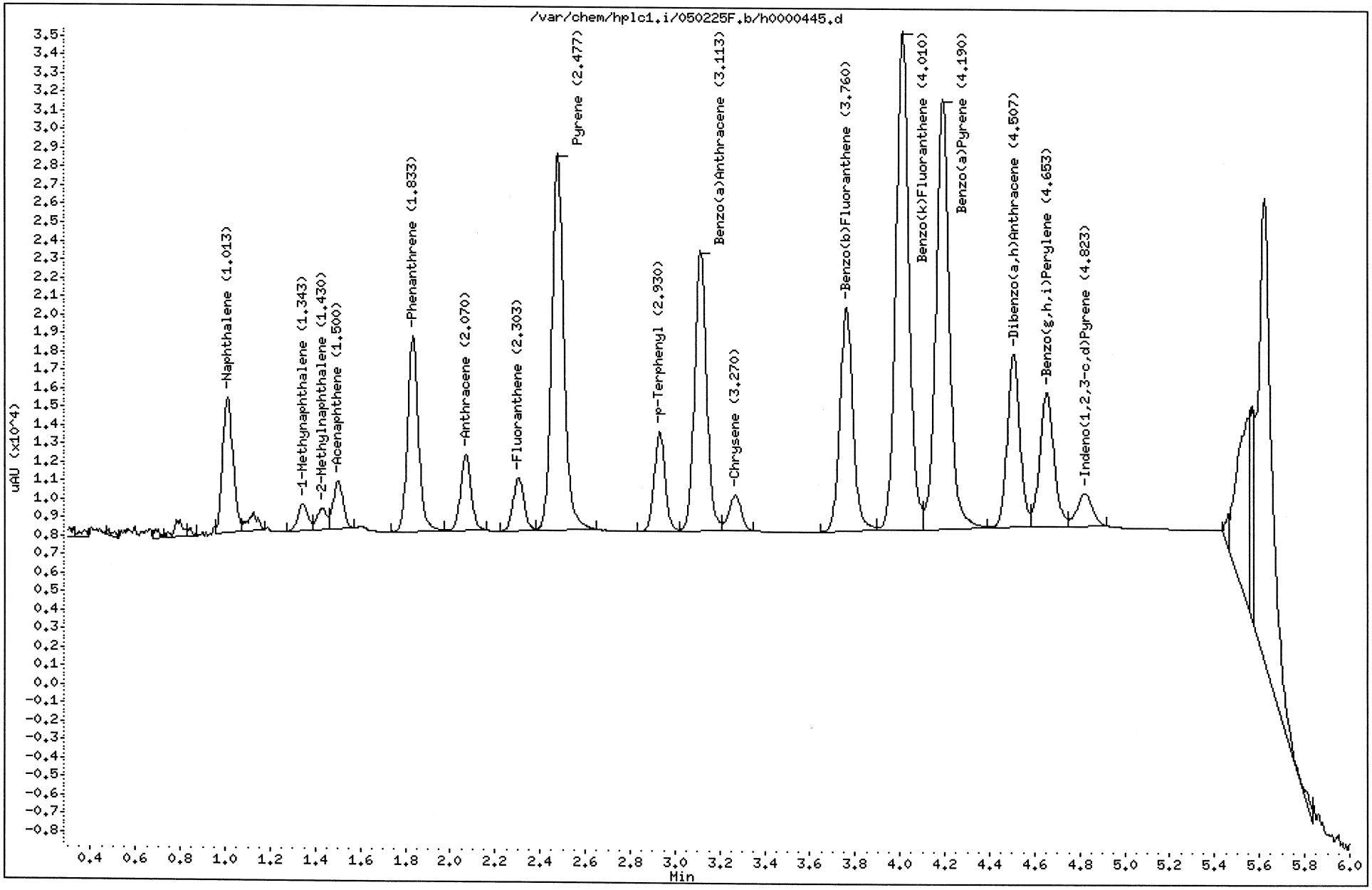
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/050225F.b/h0000445.d
Date : 25-FEB-2005 12:48
Client ID: 8310CCV
Sample Info: 8310CCV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: rlw
Column diameter: 2.10

000359



PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-18-05 1345	BATCH NO:	287722
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 287722 [EXTO/7090]	224268	1000	1.0	7	8310	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287722 [EXTO/7090]	224269	1000	1.0	7		
3	QC ACCOUNT	LCSD for HBN 287722 [EXTO/7090	224270	1000	1.0	7		SEPARATORY FUNNEL/3510 ✓
4	4380	86-334-2SA-Q1-05	20502180101	1000	1.0	7		
5	4380	86-334-32S-Q1-05	20502180102	1000	1.0	7		
6	4380	86-334-33S-Q1-05	20502180103	1000	1.0	7		
7	4380	86-334-34S-Q1-05	20502180104	1000	1.0	7		SONICATOR/3550
8	4380	86-339-28S-Q1-05	20502180105	1000	1.0	7		
9	4380	86-339-29S-Q1-05	20502180106	1000	1.0	7		SOXHLET/3540
10	4380	86-811-16SR-Q1-05	20502180107	1000	1.0	7		
11	4380	86-811-17S-Q1-05	20502180108	1000	1.0	7		
12	4380	86-811-18S-Q1-05	20502180109	1000	1.0	7		
13	4380	86-NG-24S-Q1-05	20502180110	1000	1.0	7		
14	4380	86-JETC-MS-Q1-05	20502180111	1000	1.0	7		
15	4380	86-JETC-MSD-Q1-05	20502180112	1000	1.0	7		
16	4380	86-JETC-DUP-Q1-05	20502180113	1000	1.0	7		
17	4380	05283EB1W050217	20502180502	1000	1.0	7		
18	4380	86-JETC-EB-Q1-05	20502180114	1000	1.0	<2		
19	4380	05283EB2W050217	20502180503	1000	1.0	7		Sodium Sulfate Lot No:
20								044031
21								ACETONITRILE:
22								044766
23								MeCL2 Lot No:
24				SKB 02/21/05				044734
25								
26								
27								
28								

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-10-7			SPIKE ID	9-10-6	TECHNICIAN	DATE
VOLUME	0.5 mL			VOLUME	1.0 mL	[illegible]	2-18-05
CONCENTRATION	4.0 ug/mL			CONCENTRATION	5.0 ug/mL	[illegible]	2-18-05
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	[illegible]					John Bailey	02/21/05

PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2/21/05 3:00 pm	BATCH NO:	287770
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 287770 [EXTO/7094]	224440	30.0	1.0			LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287770 [EXTO/7094]	224441	30.0	1.0			
3	QC ACCOUNT	LCSD for HBN 287770 [EXTO/7094	224442	30.0	1.0			SEPARATORY FUNNEL/3510
4	4380	05283SCS050217	20502180501	30.0	1.0			
5	QC ACCOUNT	05283SCS050217(224281MS)	224443	30.0	1.0			
6	QC ACCOUNT	05283SCS050217 (224281MSD)	224444	30.0	1.0			
7								SONICATOR/3550 ✓
8								
9								SOXHLET/3540
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								Sodium Sulfate Lot No: 044031
20								
21								ACETONITRILE: 647266
22								
23								MeCL2 Lot No: 044236
24								
25								
26								
27								
28								

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-10-7			SPIKE ID	9-10-6	TECHNICIAN	DATE
VOLUME	0.5mL			VOLUME	1.0mL	[illegible]	2/21/05
CONCENTRATION	4.0ug/mL			CONCENTRATION	5.0ug/mL		
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	GLJ					John Bailey	02/22/05

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 23-FEB-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
8310CCV		h0000408.d	1000.00 ml	23-FEB-2005 15:59	1.000	1	
223042		h0000409.d	0.00 g	23-FEB-2005 16:19	1.000	1	
223043		h0000410.d	0.00 g	23-FEB-2005 16:25	1.000	1	
223044		h0000411.d	0.00 g	23-FEB-2005 16:32	1.000	1	
20502040818		h0000412.d	0.00 g	23-FEB-2005 16:39	10.000	1	
224268		h0000413.d	1000.00 ml	23-FEB-2005 17:07	1.000	1	
224269		h0000414.d	1000.00 ml	23-FEB-2005 17:14	1.000	1	
224270		h0000415.d	1000.00 ml	23-FEB-2005 17:21	1.000	1	
20502180101		h0000416.d	1000.00 ml	23-FEB-2005 17:28	1.000	1	
20502180102		h0000417.d	1000.00 ml	23-FEB-2005 17:35	1.000	1	
20502180103		h0000418.d	1000.00 ml	23-FEB-2005 17:42	1.000	1	
20502180104		h0000419.d	1000.00 ml	23-FEB-2005 17:49	10.000	1	
20502180105		h0000420.d	1000.00 ml	23-FEB-2005 17:56	1.000	1	
20502180106		h0000421.d	1000.00 ml	23-FEB-2005 18:03	1.000	1	
20502180107		h0000422.d	1000.00 ml	23-FEB-2005 18:10	1.000	1	
20502180108		h0000423.d	1000.00 ml	23-FEB-2005 18:17	1.000	1	
20502180109		h0000424.d	1000.00 ml	23-FEB-2005 18:24	1.000	1	
20502180110		h0000425.d	1000.00 ml	23-FEB-2005 18:31	1.000	1	
20502180111		h0000426.d	1000.00 ml	23-FEB-2005 18:38	1.000	1	
20502180112		h0000427.d	1000.00 ml	23-FEB-2005 18:45	1.000	1	
20502180113		h0000428.d	1000.00 ml	23-FEB-2005 18:52	1.000	1	
20502180502		h0000429.d	1000.00 ml	23-FEB-2005 18:59	1.000	1	
20502180114		h0000430.d	1000.00 ml	23-FEB-2005 19:06	1.000	1	
20502180503		h0000431.d	1000.00 ml	23-FEB-2005 19:13	1.000	1	
8310CCV		h0000432.d	1000.00 ml	23-FEB-2005 19:20	1.000	1	
		h0000433.d	1000.00 ml	23-FEB-2005 19:27	1.000	1	

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
PFOA CAL 5	4-14-1	4-13-16	In house	4-13-16 / 06-25-05	6.25 ml	50.0 ml	2.5 ppm	Acetonitrile / 031168	RLW	06-25-04	06-25-05
SKL BA 200	4-14-2	Skinner 200 Q-4235 B	NSI	041304-02/4-13-05	1.0 mL	5.0 mL	200 ppm	CH_2Cl_2			
10	4-14-3				50 uL	1.0 mL	10	DCM 030609	jar 3	063004	123004
50	4-14-4				250		50				
80	4-14-5				400		80				
120	4-14-6				600		120				
160	4-14-7				800		160				
SKLBNA jar3 063004 ~~SKL ICV 050~~	4-14-8	M-005A-10X M-005B-10X 200 ppm	ACCU ACCU	B0010103-3C/9-14-04 B3110139/111308	1.0 mL 1.0 mL	1 mL	2000	NA	jar3	063004	091404
SKL ICV 050	4-14-9	4-14-8	4-14-8	4-14-8/091404	250 ul 250 ul	~~250~~ jar3 063004 250 mL	500	DCM 030609			
Dates 6-25-04 — 6-30-04 were reviewed by QA/QC on 7-29-04 DLH —											
ICV 050	4-14-10	625 Spike BNA Surry	NSI NSI	9-1-2/7/8/05 9-2-5/7/21/05	0.5 mL 0.5 mL	1.0 mL	50 ppm 50/100 ppm	DCM 036929	jar3	080204	070805
APP9 200	4-14-11	Q4113 C-411-04 323-03-02 847-02-05	NSI	06030402 / 12-03-04 C-411-04 / 02-05 323-03-02 / 03-05 847-02-05 / 12-05	5.0 mL 1.0 1.0 1.0	10.0 mLs	200 ppm 200 200 200	DCM 030609	jar3	081804	120305
10	4-14-12	4-14-11	In-House	4-14-11/12-3-04	50 uL	1.0 mL	10 ppm				
50	4-14-13				250 uL		50				
80	4-14-14				400 uL		80				
120	4-14-15				600 uL		120				
160	4-14-16				800 uL		160				

000363

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

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.	05283EB1W050217	92	25	132						80	25	132						0
2.	05283EB2W050217	86	25	132						70	25	132						0
3.	MB224271	97	25	132						68	25	132						0
4.	LCS224272	71	25	132						56	25	132						0
5.	LCSD224273	109	25	132						51	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

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1.	05283SCS050217	119				77				0
2.	MB224450	98				82				0
3.	LCS224451	93				67				0
4.	LCSD224452	92				58				0
5.	05283SCS050217MS	97				71				0
6.	05283SCS050217MSD	94				66				0

		CONTROL LIMITS	
SMC 1 :	O-Terphenyl	22	123
SMC 2 :	Nonatriacontane	25	135

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-NG-24S-Q1-05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: FLORIDA PRO

Prep Batch: 287723 Analytical Batch: 287991

SAMPLE NO : 20502180111

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	23.5	1290	75		41 - 101

SAMPLE NO : 20502180112

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1480	86		14		41 - 101	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: FLORIDA PRO

Prep Batch: 287723 Analytical Batch: 287991

SAMPLE NO : 224272

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	1060	62		55 - 118

SAMPLE NO : 224273

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	1480	87		33	*	55 - 118	0 - 20

RPD : 1 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283SCS050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: FLORIDA PRO

Prep Batch: 287772 Analytical Batch: 287991

Spike HSN : 224453

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	69500	118000	133000	22	*	62 - 204

Spike Dupe HSN : 224454

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	69500	138000	30	*	4		62 - 204	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021805

Contract: Method: FLORIDA PRO

Prep Batch: 287772 Analytical Batch: 287991

Spike HSN : 224451

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	68000	0	49200	72		63 - 153

Spike Dupe HSN : 224452

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	68000	49200	72		0		63 - 153	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224271

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224271

SAS No.: SDG No.: 205021805

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/18/05

Date Analyzed (1): 02/23/05 Time (1): 1434

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: 287723 Analytical Batch: 287991

Lab File ID: 2050223/SV14B0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224272	224272	02/23/05	1504		
2.	05283EB1W050217	20502180502	02/23/05	2329		
3.	05283EB2W050217	20502180503	02/23/05	2359		
4.	LCSD224273	224273	02/24/05	0427		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224450

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224450

SAS No.: SDG No.: 205021805

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/24/05 Time (1): 0129

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: 287772 Analytical Batch: 287991

Lab File ID: 2050223/SV14B0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224451	224451	02/24/05	0158		
2.	LCSD224452	224452	02/24/05	0228		
3.	05283SCS050217	20502180501	02/24/05	0258		
4.	05283SCS050217MS	224453	02/24/05	0328		
5.	05283SCS050217MSD	224454	02/24/05	0358		

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 2. 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: 287772 Analytical Batch: 287991

CONCENTRATION UNITS: ug/kg

Sample ID: 05283SCS050217

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 20502180501

Date Collected: 02/17/05 Time: 1500

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/24/05 Time: 0258

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B086S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	118000		5110	8180

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b086.d
Lab Smp Id: 20502180501
Inj Date : 24-FEB-2005 02:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180501-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.110	7.017	0.093	5439748882	1673.63	133890.6114(M)

QC Flag Legend On column - surr is 467301455 0 ✓

M - Compound response manually integrated.

$$\frac{5439748882 - 766734332}{3250265} \cdot \frac{2000}{\cancel{1000}\ 25} = 115{,}019 \text{ ug/kg}$$

dlb
2/24/05

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b086s.d
Lab Smp Id: 20502180501
Inj Date : 24-FEB-2005 02:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180501-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.109	7.120	-0.011	173732278	59.6414	4771.3101(R)
$ 18 Nonatriacontane	16.532	16.698	-0.166	593002054	231.304	18504.2978

766734332

QC Flag Legend

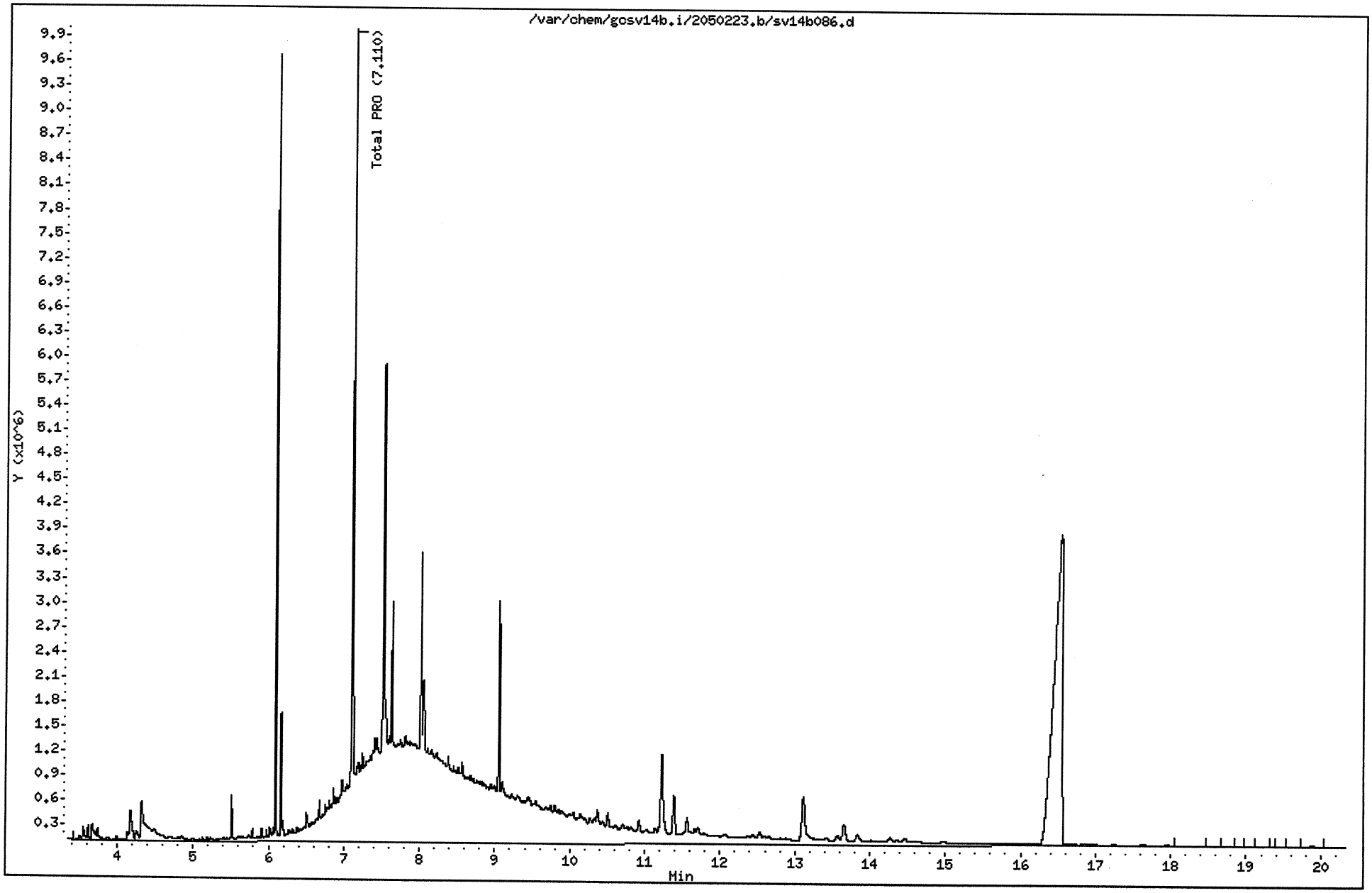
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b086.d
Date : 24-FEB-2005 02:58
Client ID:
Sample Info: 20502180501-1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000375



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b086s.d

Date : 24-FEB-2005 02:58

Client ID:

Instrument: gcsv14b.i

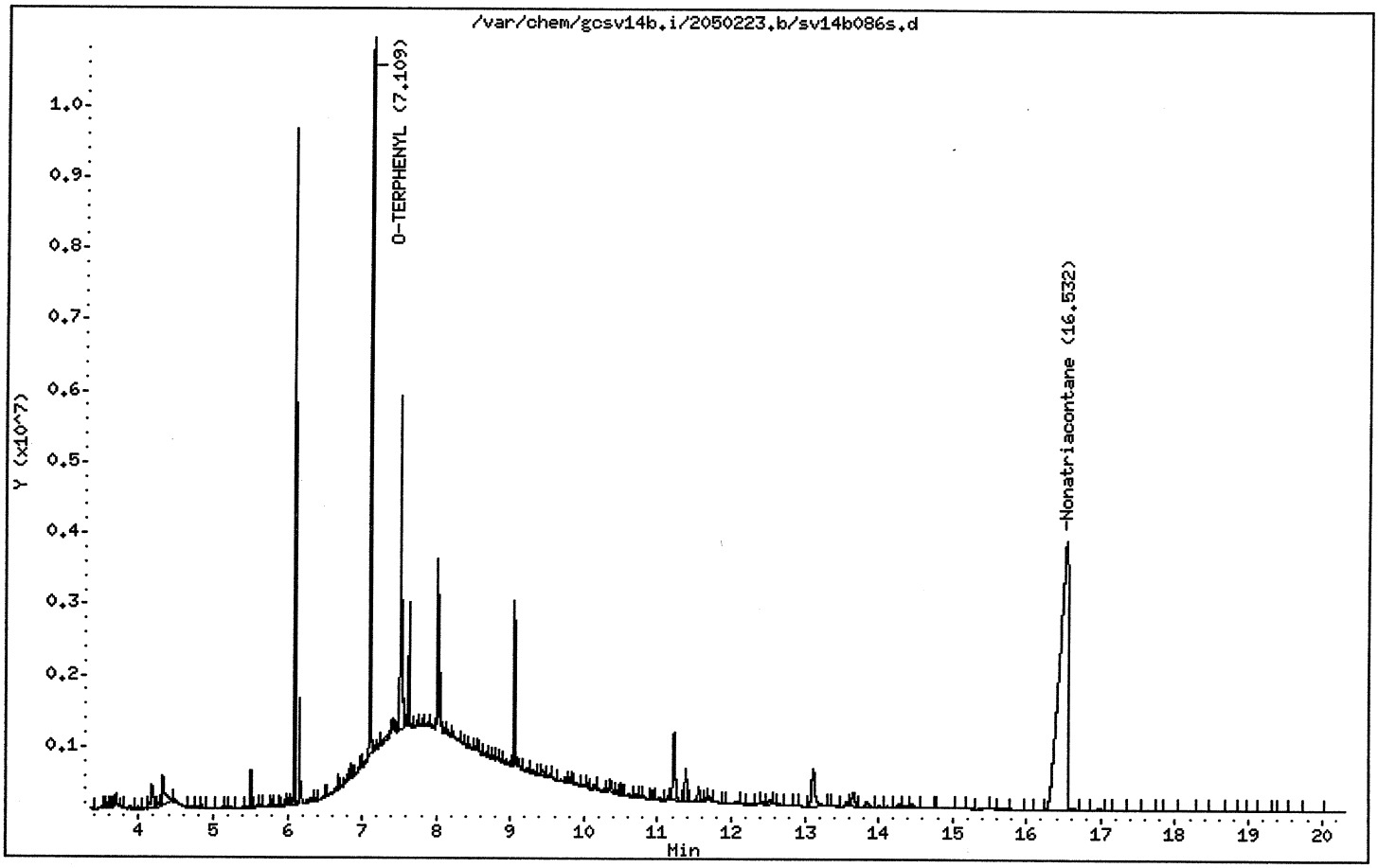
Sample Info: 20502180501-1

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

CONCENTRATION UNITS: ug/L

Sample ID: 05283EB1W050217

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 20502180502

Date Collected: 02/17/05 Time: 1440

Date Received: 02/18/05

Date Extracted: 02/18/05

Date Analyzed: 02/23/05 Time: 2329

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B080S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b080.d
Lab Smp Id: 20502180502
Inj Date : 23-FEB-2005 23:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180502-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 80
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.110	7.017	0.093	775136595	238.484	476.9683(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{775136595 - 750075580}{3250265} \cdot \frac{2000}{1000} = 15.4 \text{ ug/L} \quad \text{LDL}$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b080s.d
Lab Smp Id: 20502180502
Inj Date : 23-FEB-2005 23:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180502-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 80
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.110	7.120	-0.010	134591331	46.2045	92.4089
$ 18 Nonatriacontane	16.553	16.698	-0.145	615484249	240.073	480.1460

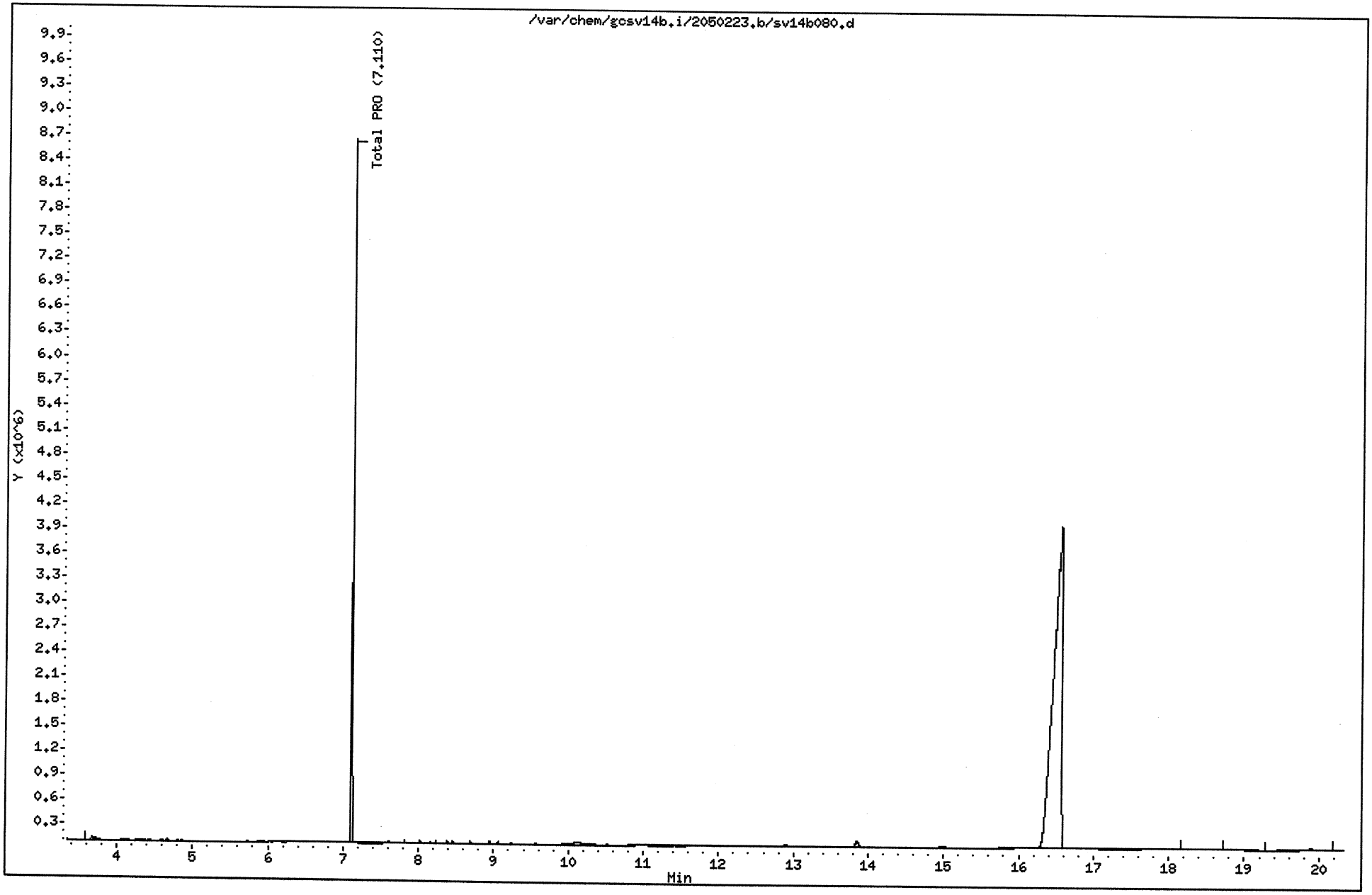
750075580

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b080.d
Date : 23-FEB-2005 23:29
Client ID:
Sample Info: 20502180502-1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000380



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b080s.d

Date : 23-FEB-2005 23:29

Client ID:

Instrument: gcsv14b.i

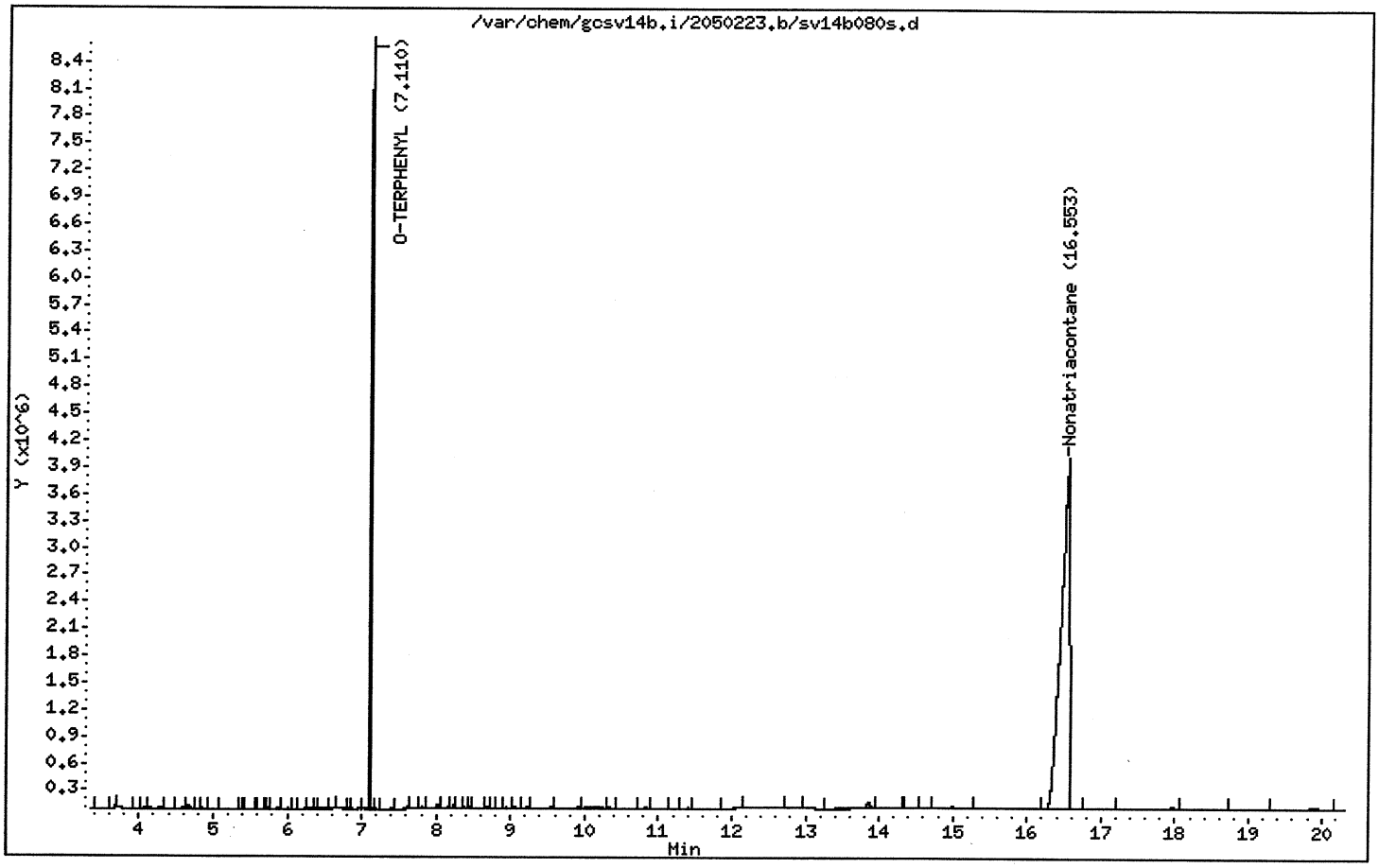
Sample Info: 20502180502-1

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

CONCENTRATION UNITS: ug/L

Sample ID: 05283EB2W050217

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 20502180503

Date Collected: 02/17/05 Time: 1510

Date Received: 02/18/05

Date Extracted: 02/18/05

Date Analyzed: 02/23/05 Time: 2359

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B081S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b081.d
Lab Smp Id: 20502180503
Inj Date : 23-FEB-2005 23:59
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180503-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 81
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.110	7.017	0.093	726416348	223.495	446.9890(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{726416348 - 664081361}{3250265} \cdot \frac{2000}{1000} = 38.4 \text{ ug/L} \quad < DL$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b081s.d
Lab Smp Id: 20502180503
Inj Date : 23-FEB-2005 23:59
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180503-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 81
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.109	7.120	-0.011	125531933	43.0945	86.1889
$ 18 Nonatriacontane	16.530	16.698	-0.168	538549428	210.064	420.1283

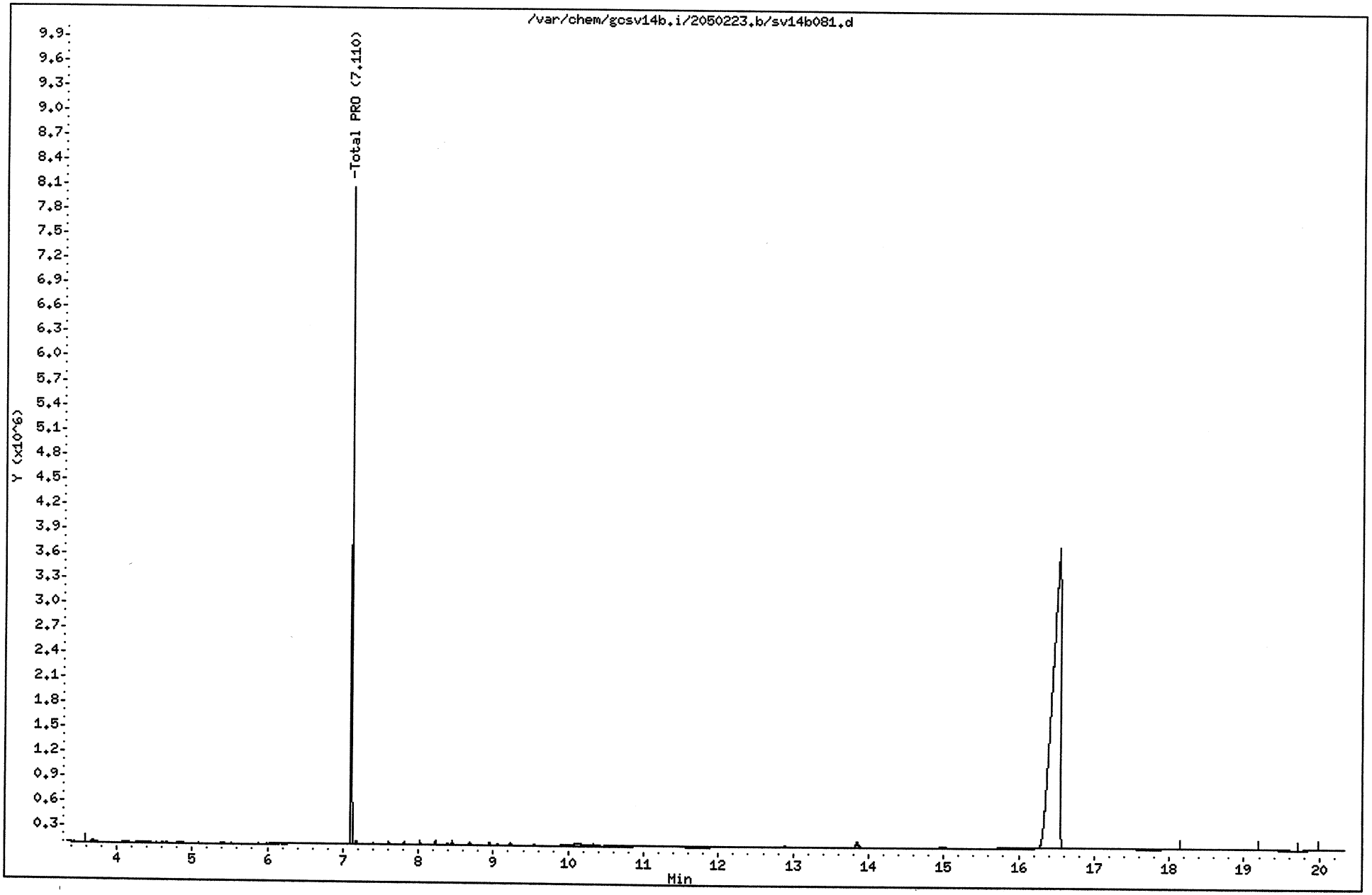
66408136 1

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b081.d
Date : 23-FEB-2005 23:59
Client ID:
Sample Info: 20502180503-1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000385



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b081s.d

Date : 23-FEB-2005 23:59

Client ID:

Instrument: gcsv14b.i

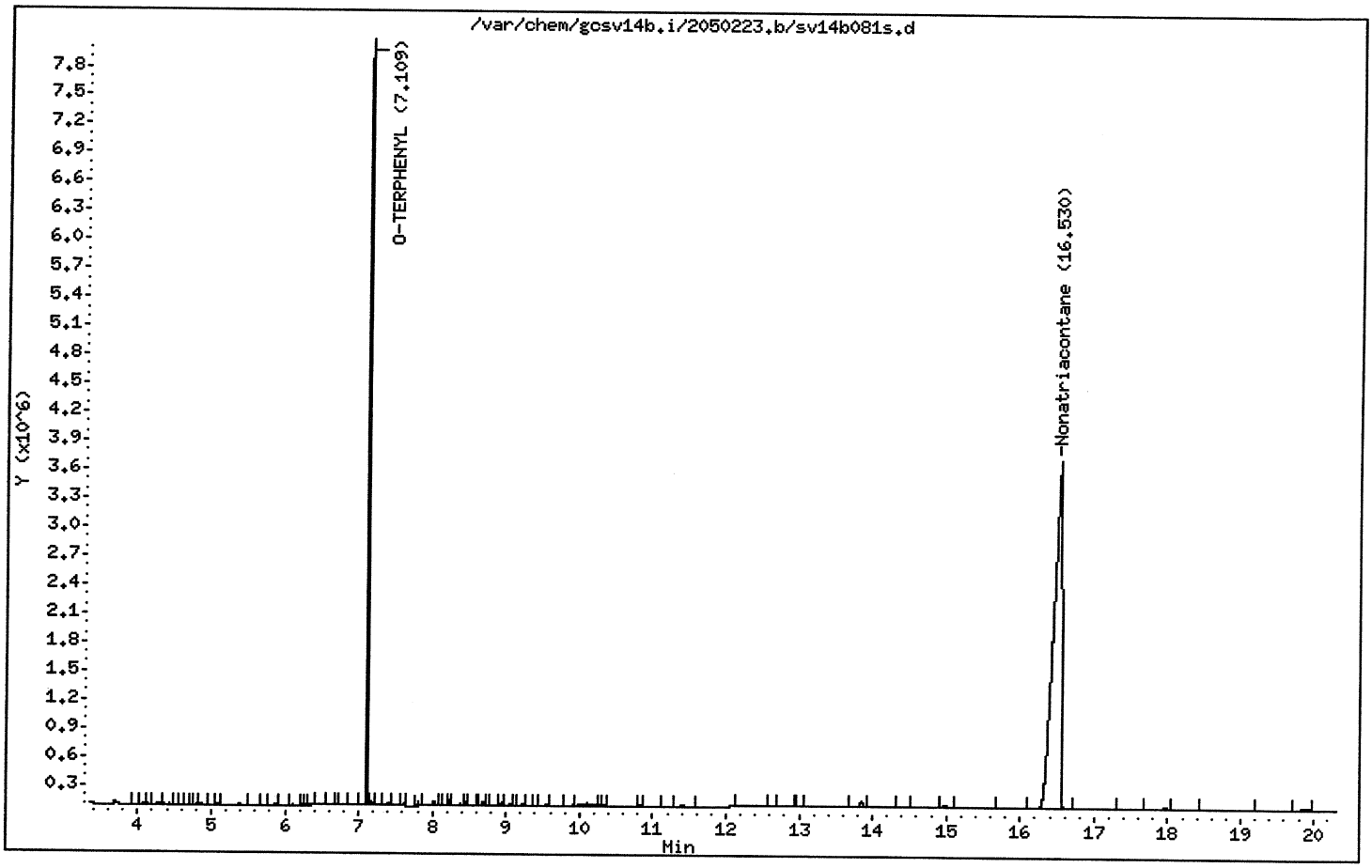
Sample Info: 20502180503-1

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2005 09:25
End Cal Date : 23-FEB-2005 13:23
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050223.b/flpro.m
Cal Date : 23-Feb-2005 14:11 dlb
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2050223.b/sv14b052.d
Level 2: /var/chem/gcsv14b.i/2050223.b/sv14b053.d
Level 3: /var/chem/gcsv14b.i/2050223.b/sv14b054.d
Level 4: /var/chem/gcsv14b.i/2050223.b/sv14b055.d
Level 5: /var/chem/gcsv14b.i/2050223.b/sv14b059.d
Level 6: /var/chem/gcsv14b.i/2050223.b/sv14b060.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	3783775	3165848	3131775	3296865	2873060	+++++	3250265	10.322
$ 7 O-TERPHENYL	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 18 Nonatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 23-FEB-2005 09:25
End Cal Date	: 23-FEB-2005 13:23
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: HP Genie
Method file	: /var/chem/gcsv14b.i/2050223.b/flpro.m
Cal Date	: 23-Feb-2005 14:11 dlb
Curve Type	: Average

```
Average %RSD Results.
==============================================
Calculated Average %RSD = 10.3223981
Maximun Average %RSD    =         20
* Passed Average %RSD Test.
```

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-FEB-2005 09:25
End Cal Date : 23-FEB-2005 13:23
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2050223.b/flsur.m
Cal Date : 23-Feb-2005 14:12 dlb
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2050223.b/sv14b052s.d
Level 2: /var/chem/gcsv14b.i/2050223.b/sv14b053s.d
Level 3: /var/chem/gcsv14b.i/2050223.b/sv14b054s.d
Level 4: /var/chem/gcsv14b.i/2050223.b/sv14b055s.d
Level 5: /var/chem/gcsv14b.i/2050223.b/sv14b059s.d
Level 6: /var/chem/gcsv14b.i/2050223.b/sv14b060s.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	2953399	2993242	2858419	2959805	2799879	+++++	2912949	2.770
$ 18 Nonatriacontane	2856240	2756006	2803196	2208000	2195246	+++++	2563738	12.969

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 23-FEB-2005 09:25
End Cal Date	: 23-FEB-2005 13:23
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: HP Genie
Method file	: /var/chem/gcsv14b.i/2050223.b/flsur.m
Cal Date	: 23-Feb-2005 14:12 dlb
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.86934137                 |
|Maximun Average %RSD    =        20                  |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b052.d
Lab Smp Id: 1201
Inj Date : 23-FEB-2005 09:25
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1201-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 11-Jan-2005 11:44 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060d.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.117	7.117	0.000	1390487197	102.000	264.6934(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1390487197 - 1004542099}{102} = \frac{385945098}{102} = 3783775$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b052s.d
Lab Smp Id: 1201
Inj Date : 23-FEB-2005 09:25
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1201-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 10:18 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 09:25 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

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.116	7.118	-0.002	147669965	50.0000	46.4494
$ 18 Nonatriacontane	16.650	16.650	0.000	856872134	300.000	334.5389

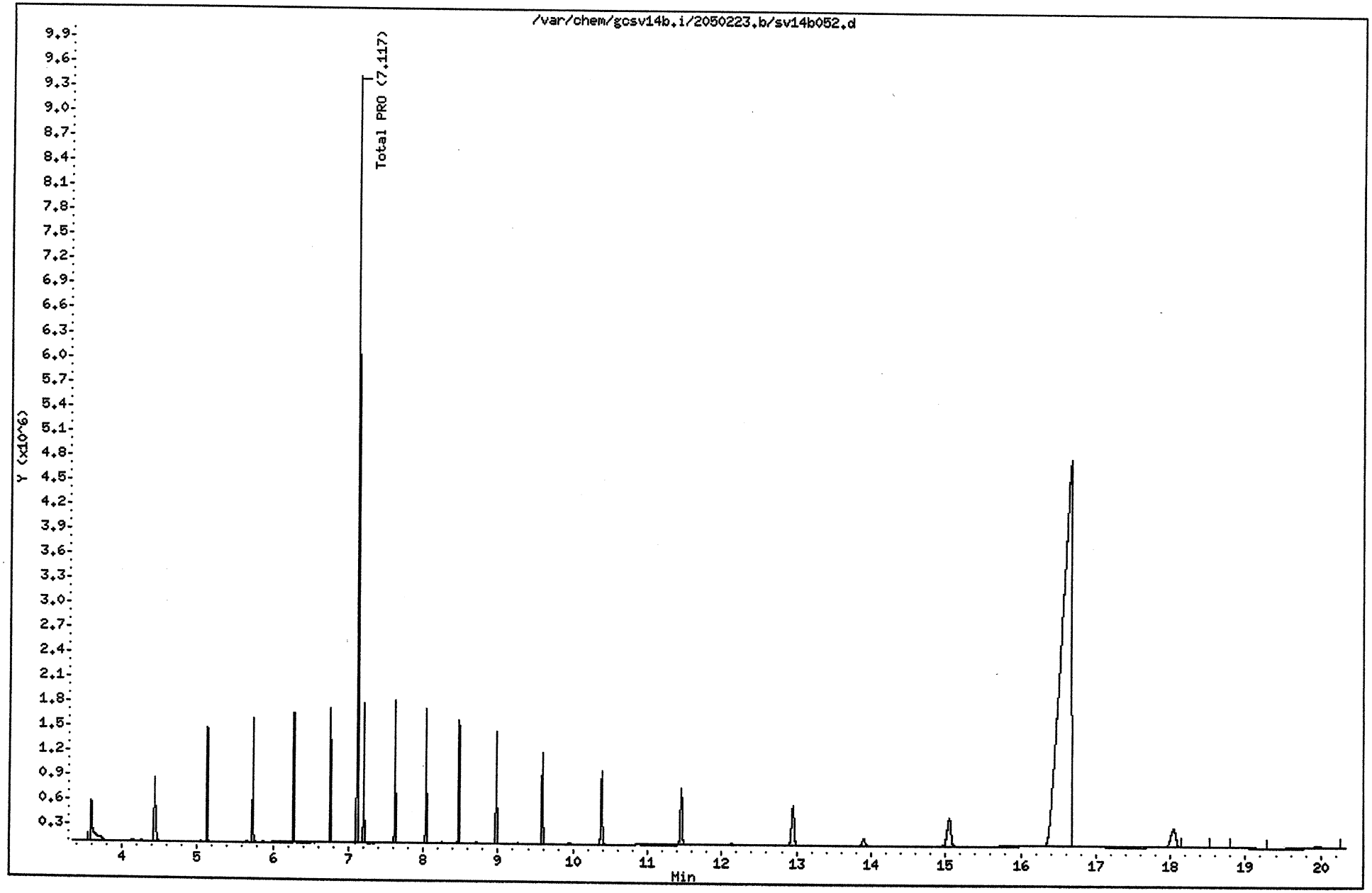
1004542099

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b052.d
Date : 23-FEB-2005 09:25
Client ID:
Sample Info: 1201-1 flpro 6
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000393



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b052s.d

Date : 23-FEB-2005 09:25

Client ID:

Instrument: gcsv14b.i

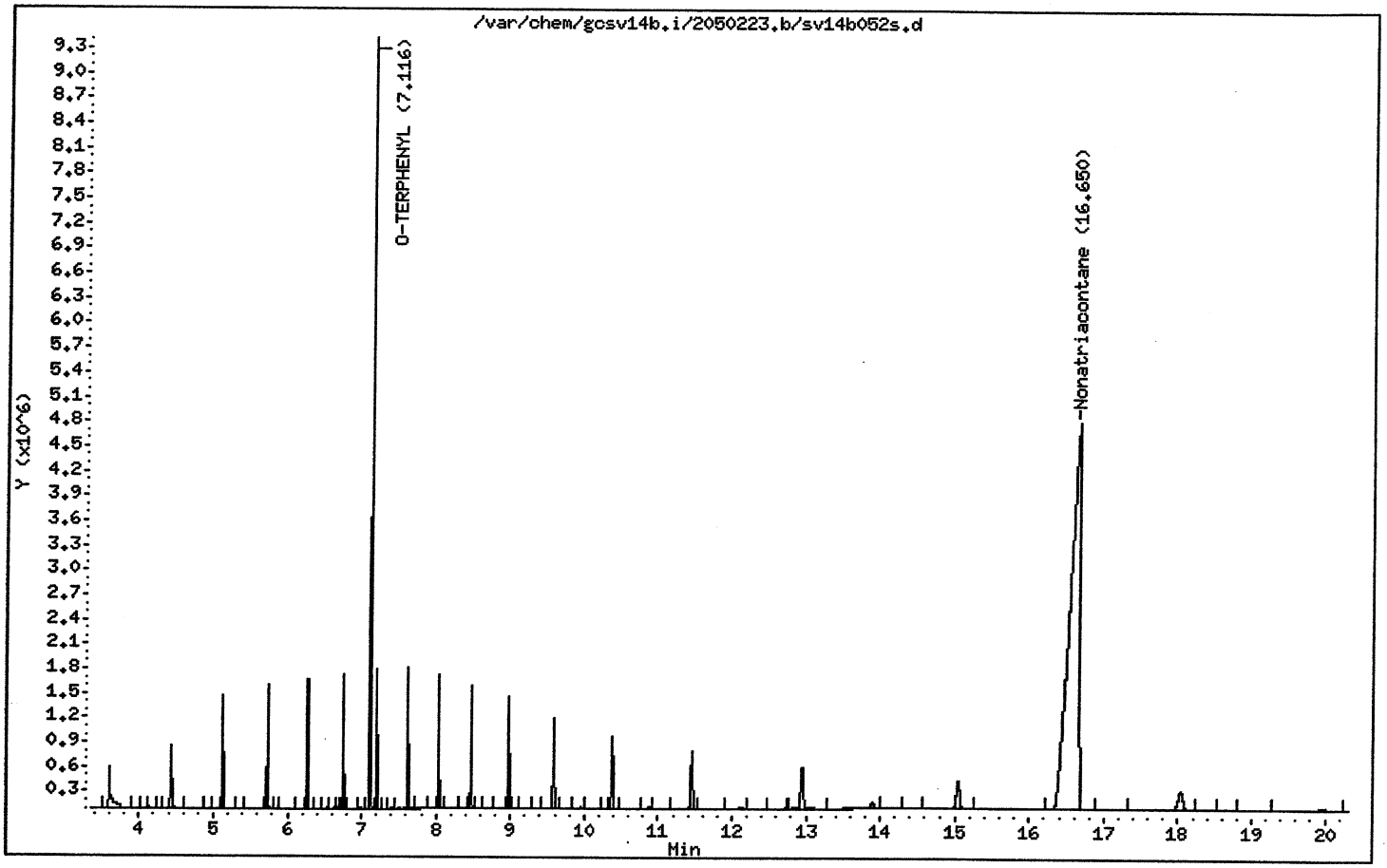
Sample Info: 1201-1 flpro 6

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b053.d
Lab Smp Id: 1202
Inj Date : 23-FEB-2005 09:56
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1202-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 11-Jan-2005 11:44 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060d.d
Als bottle: 53 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.206	7.117	0.089	3667434448	850.000	1099.1669(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3667434448 - 976463780}{850} = \frac{2690970668}{850} =$$

3165848

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b053s.d
Lab Smp Id: 1202
Inj Date : 23-FEB-2005 09:56
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1202-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 10:18 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 09:56 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

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.115	7.118	-0.003	149662121	50.0000	47.0760
$ 18 Nonatriacontane	16.624	16.650	-0.026	826801659	300.000	332.3651

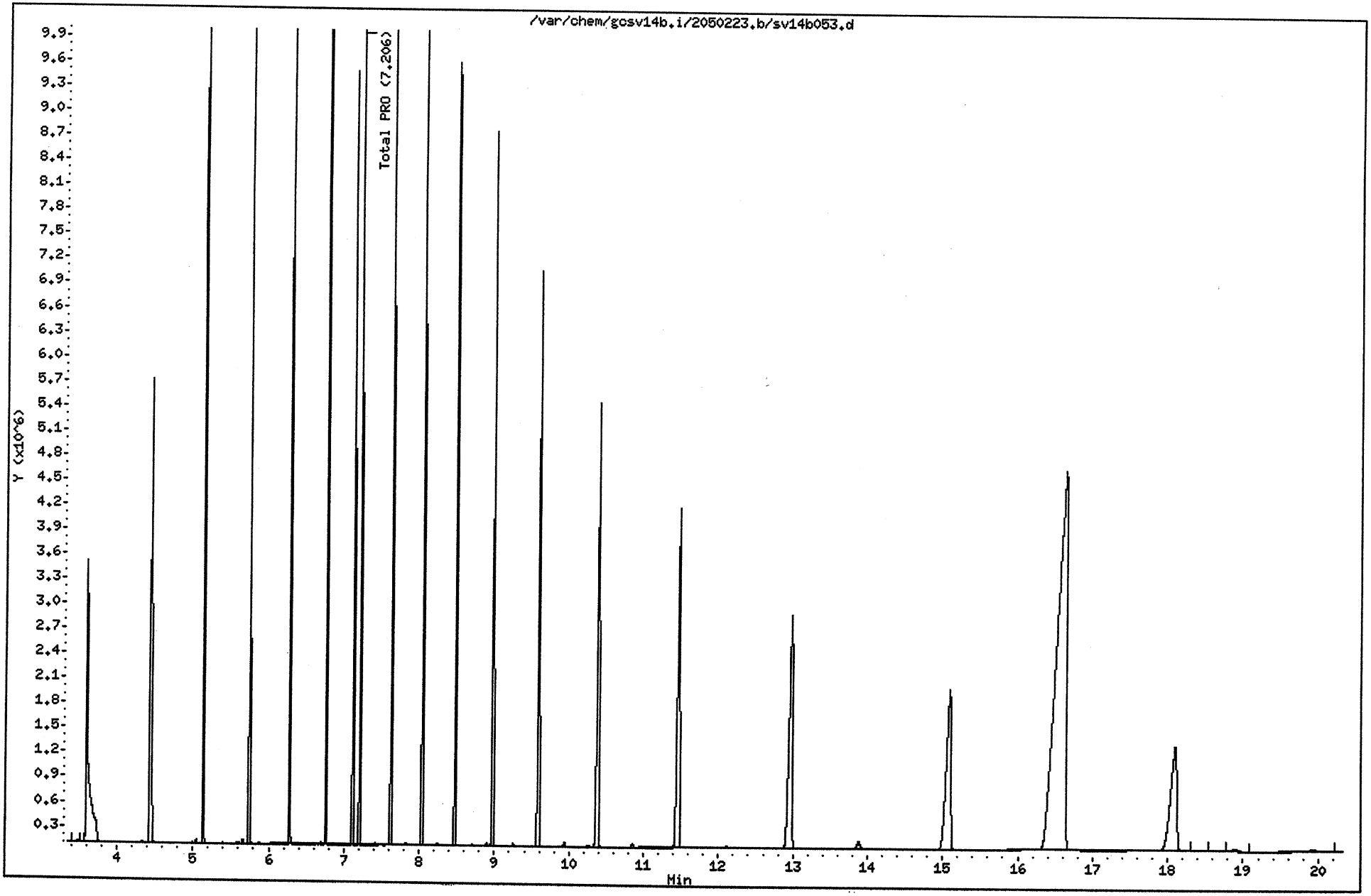
976463780

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b053.d
Date : 23-FEB-2005 09:56
Client ID:
Sample Info: 1202-1 flpro 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000397



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b053s.d

Date : 23-FEB-2005 09:56

Client ID:

Instrument: gcsv14b.i

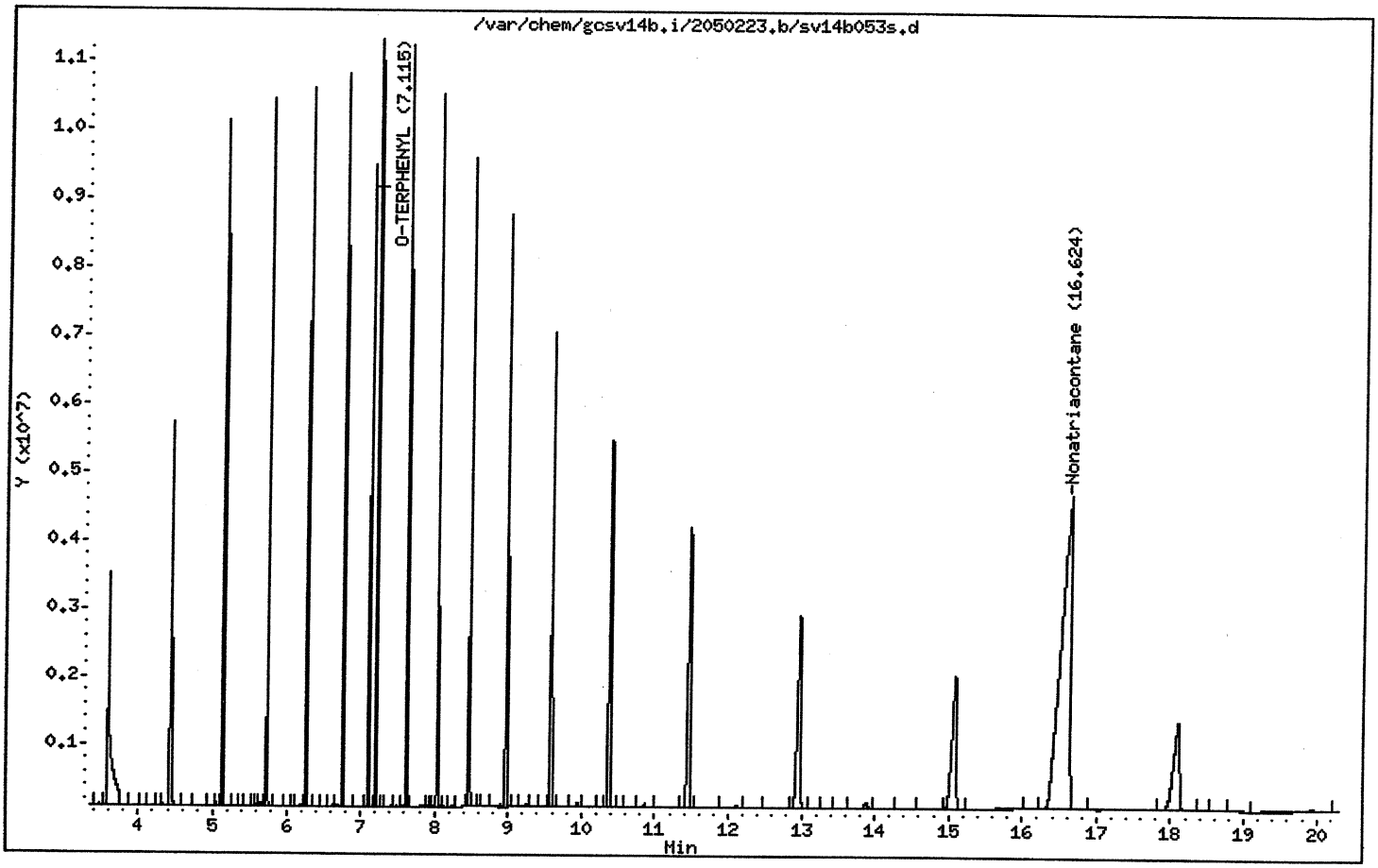
Sample Info: 1202-1 flpro 50

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b054.d
Lab Smp Id: 1203
Inj Date : 23-FEB-2005 10:25
Operator : dlb
Smp Info : 1203-1 flpro 150
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 23-Feb-2005 10:51 dlb
Cal Date : 23-FEB-2005 10:25
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50

Inst ID: gcsv14b.i

Quant Type: ESTD
Cal File: sv14b054.d
Calibration Sample, Level: 3

Compound Sublist: PRO.sub

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.211	7.211	0.000	8969904830	2550.00	2570.8527(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{8969904830 - 983879594}{2550} = \frac{7986025236}{2550} =$$

3131775

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b054s.d
Lab Smp Id: 1203
Inj Date : 23-FEB-2005 10:25
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1203-1 flpro 150
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 10:54 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 10:25 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

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.113	7.118	-0.005	142920936	50.0000	48.6950
$ 18 Nonatriacontane	16.613	16.613	0.000	840958658	300.000	299.7912

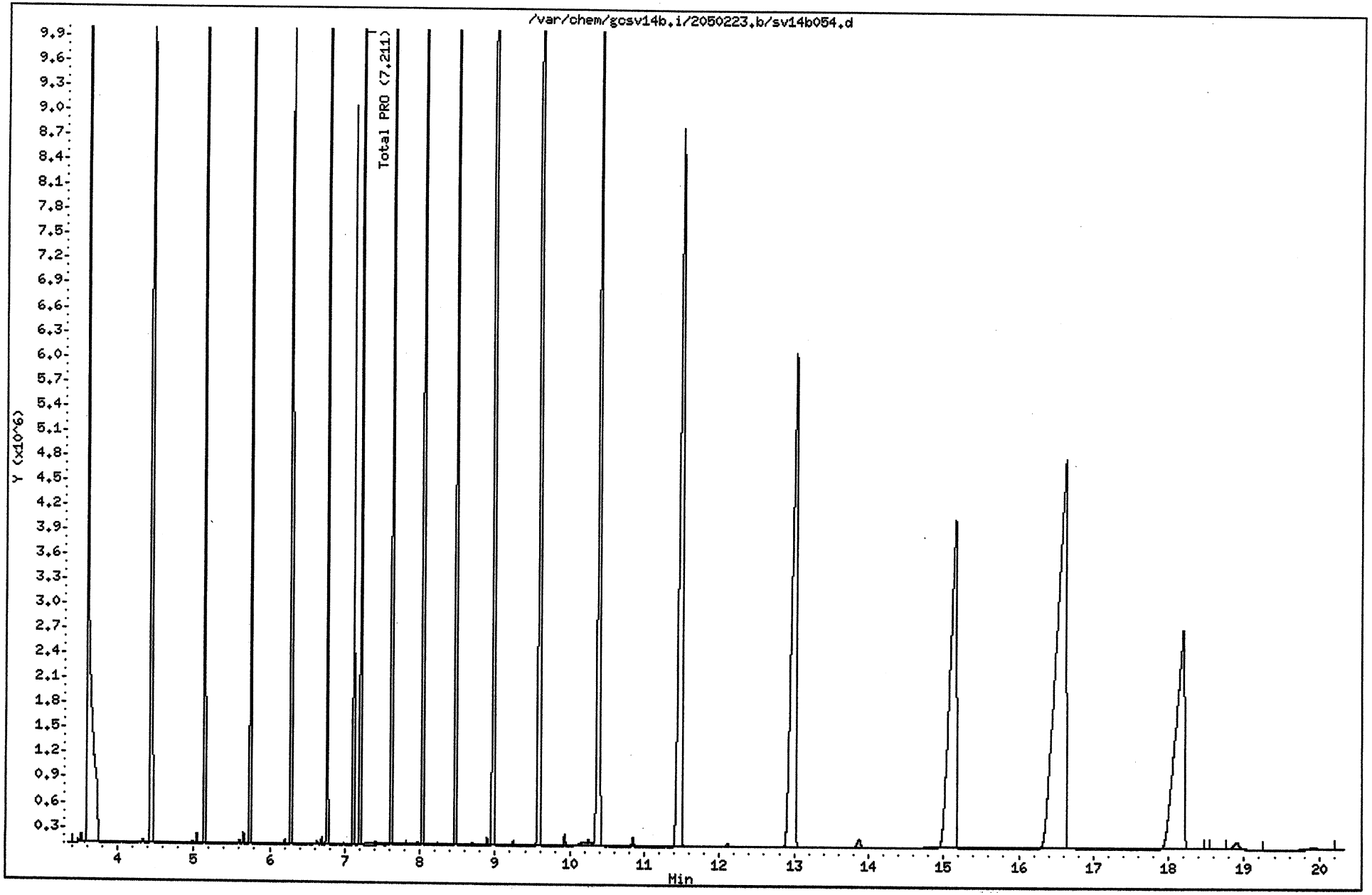
983879594

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b054.d
Date : 23-FEB-2005 10:25
Client ID:
Sample Info: 1203-1 flpro 150
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000401



Data File: /var/chem/gosv14b.i/2050223.b/sv14b054s.d

Date : 23-FEB-2005 10:25

Client ID:

Instrument: gosv14b.i

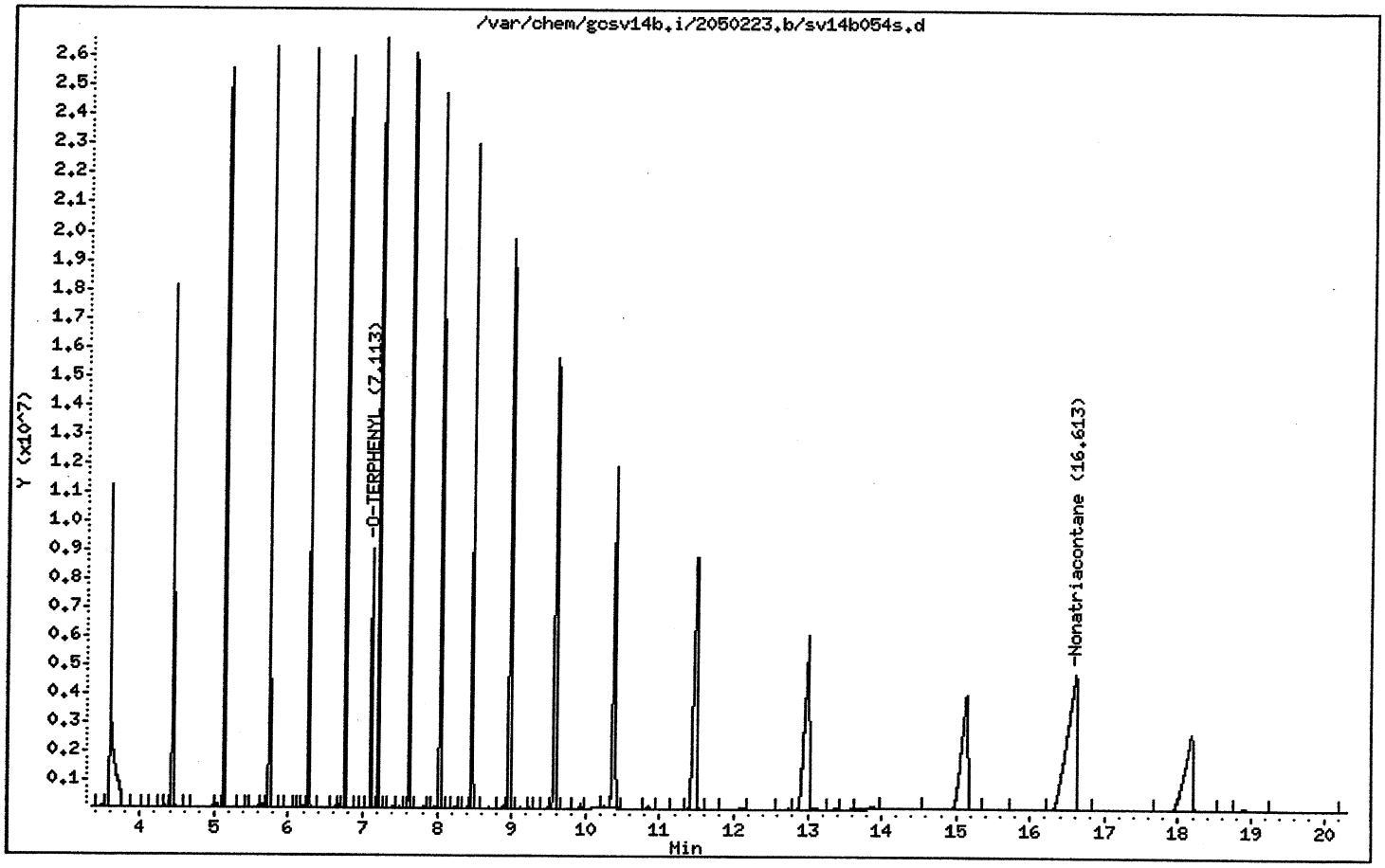
Sample Info: 1203-1 flpro 150

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b055.d
Lab Smp Id: 1204
Inj Date : 23-FEB-2005 10:55
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1204-1 flpro 250
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 23-Feb-2005 11:08 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 10:55 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

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	6.287	7.211	-0.924	14822067831	4250.00	4369.4096(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{14822067831 - 810390373}{4250} = \frac{14011677458}{4250} = 3296865$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b055s.d
Lab Smp Id: 1204
Inj Date : 23-FEB-2005 10:55
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 1204-1 flpro 250
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 11:09 dlb
Quant Type: ESTD
Cal Date : 23-FEB-2005 10:55
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

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.113	7.118	-0.005	147990235	50.0000	50.3159
$ 18 Nonatriacontane	16.592	16.613	-0.021	662400138	300.000	249.4107

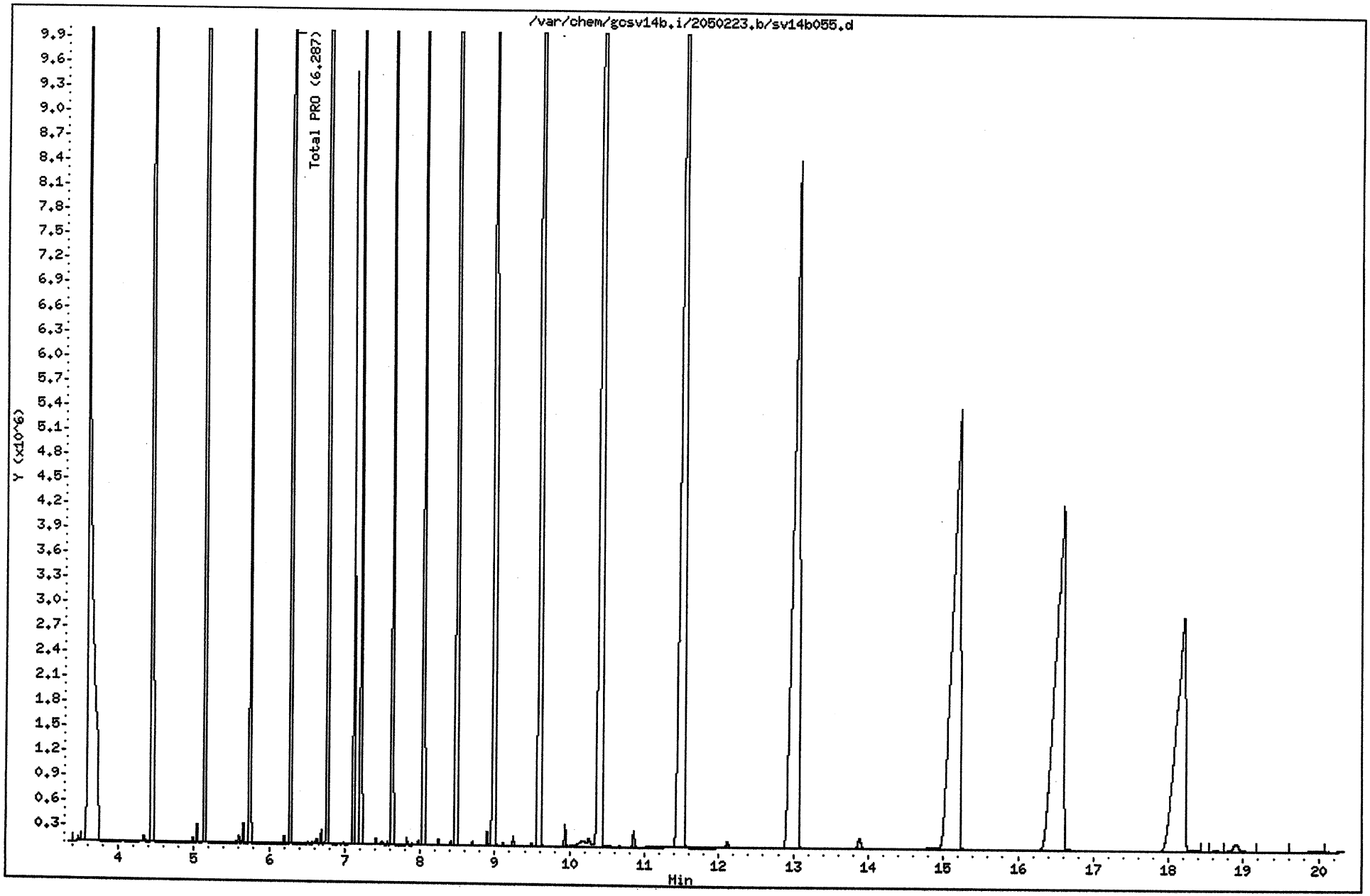
810390373

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b055.d
Date : 23-FEB-2005 10:55
Client ID:
Sample Info: 1204-1 flpro 250
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000405



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b055s.d

Date : 23-FEB-2005 10:55

Client ID:

Instrument: gcsv14b.i

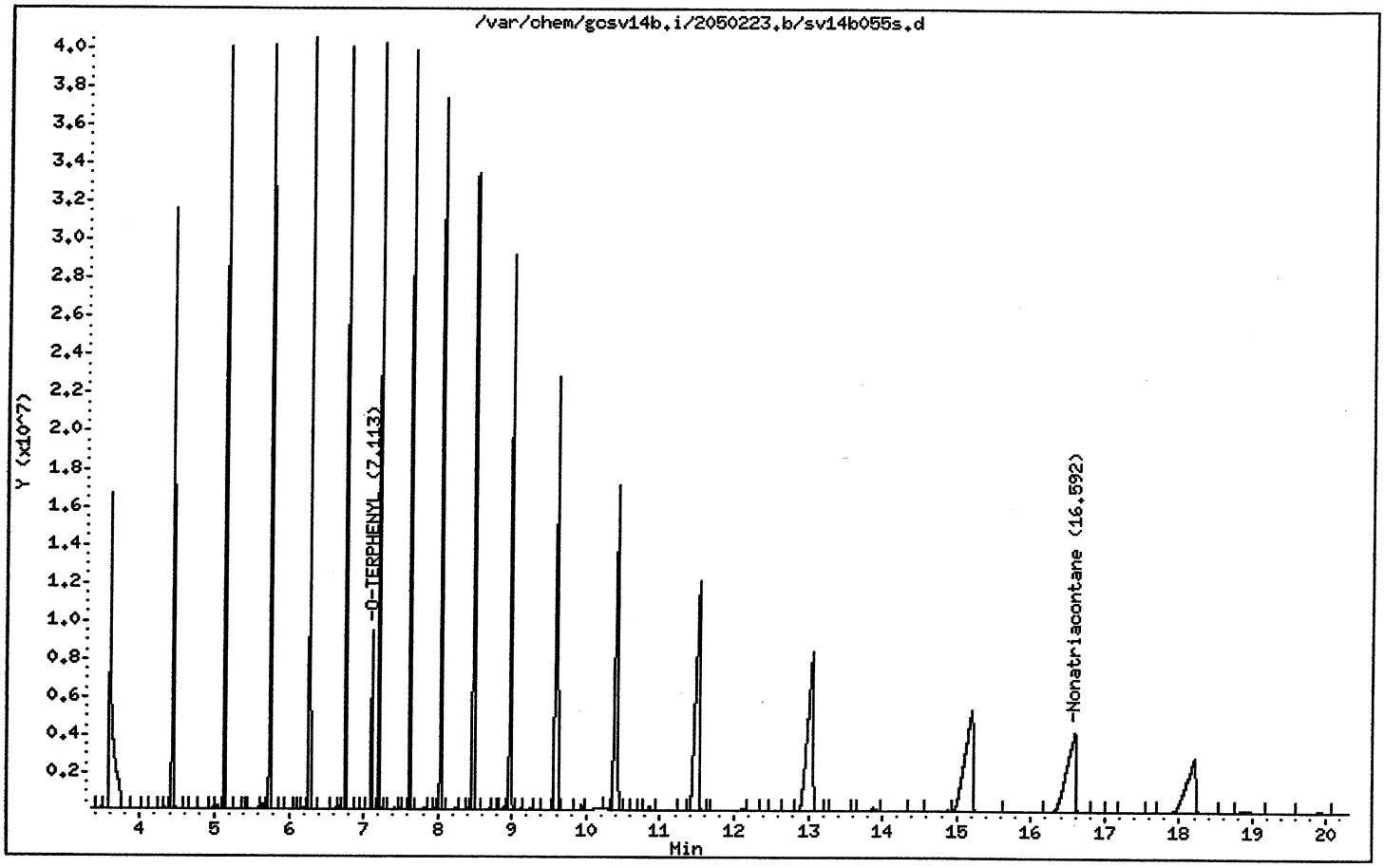
Sample Info: 1204-1 flpro 250

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b059.d
Lab Smp Id: 1205
Inj Date : 23-FEB-2005 12:54
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1205-1-flpro 350
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 23-Feb-2005 13:08 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 12:54 Cal File: sv14b059.d
Als bottle: 59 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	5.752	7.211	-1.459	17893272805	5950.00	5460.0816(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{17893272805 - 798567778}{5950} = \frac{17094705027}{5950} =$$

2873060

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b059s.d
Lab Smp Id: 1205
Inj Date : 23-FEB-2005 12:54
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1205-1-flpro 350
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 13:10 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 12:54 Cal File: sv14b059s.d
Als bottle: 59 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.114	7.118	-0.004	139993947	50.0000	48.0591
$ 18 Nonatriacontane	16.598	16.598	0.000	658573831	300.000	256.8803

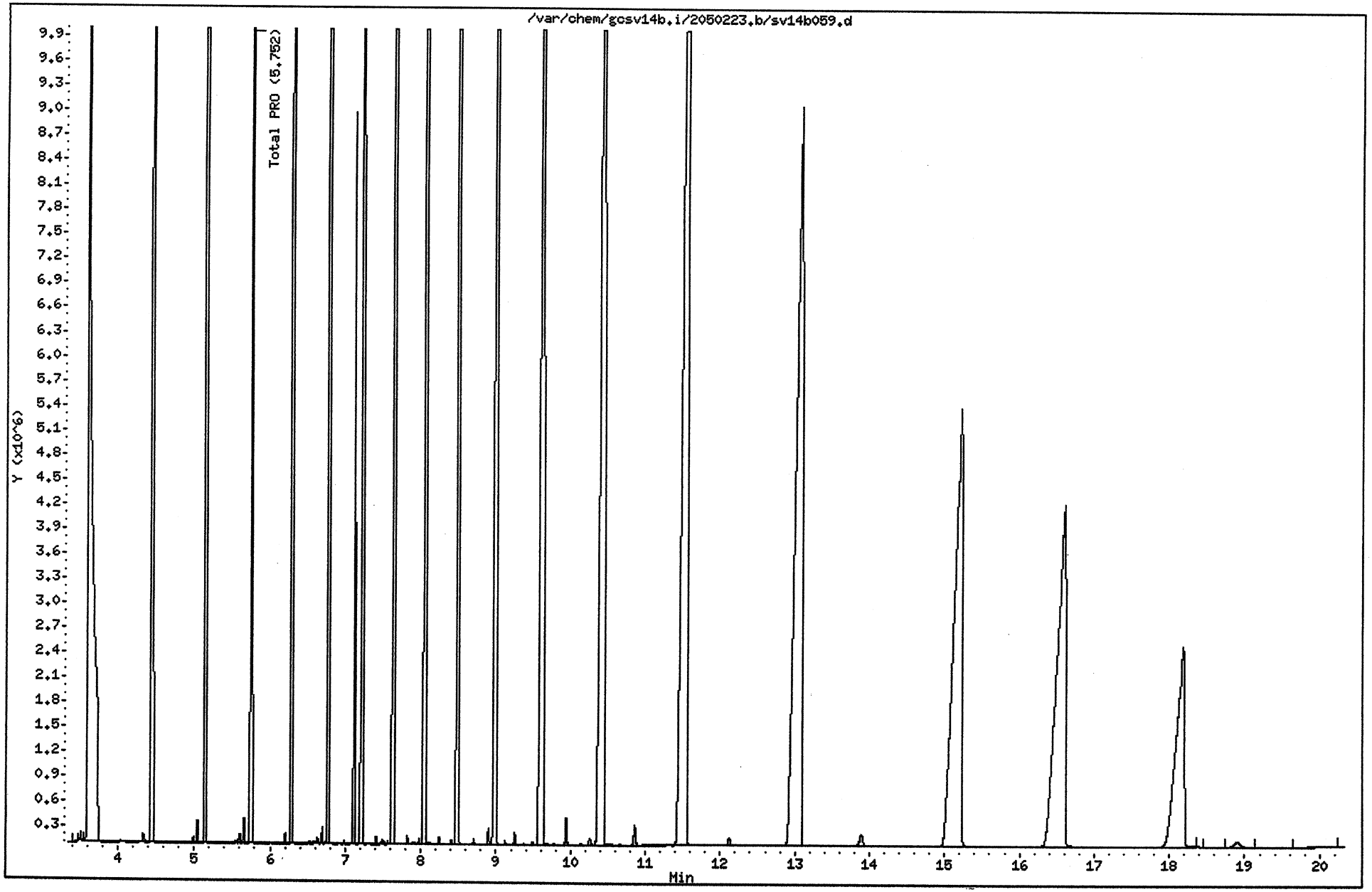
798567778

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b059.d
Date : 23-FEB-2005 12:54
Client ID:
Sample Info: 1205-1-flpro 350
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000409



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b059s.d

Date : 23-FEB-2005 12:54

Client ID:

Instrument: gcsv14b.i

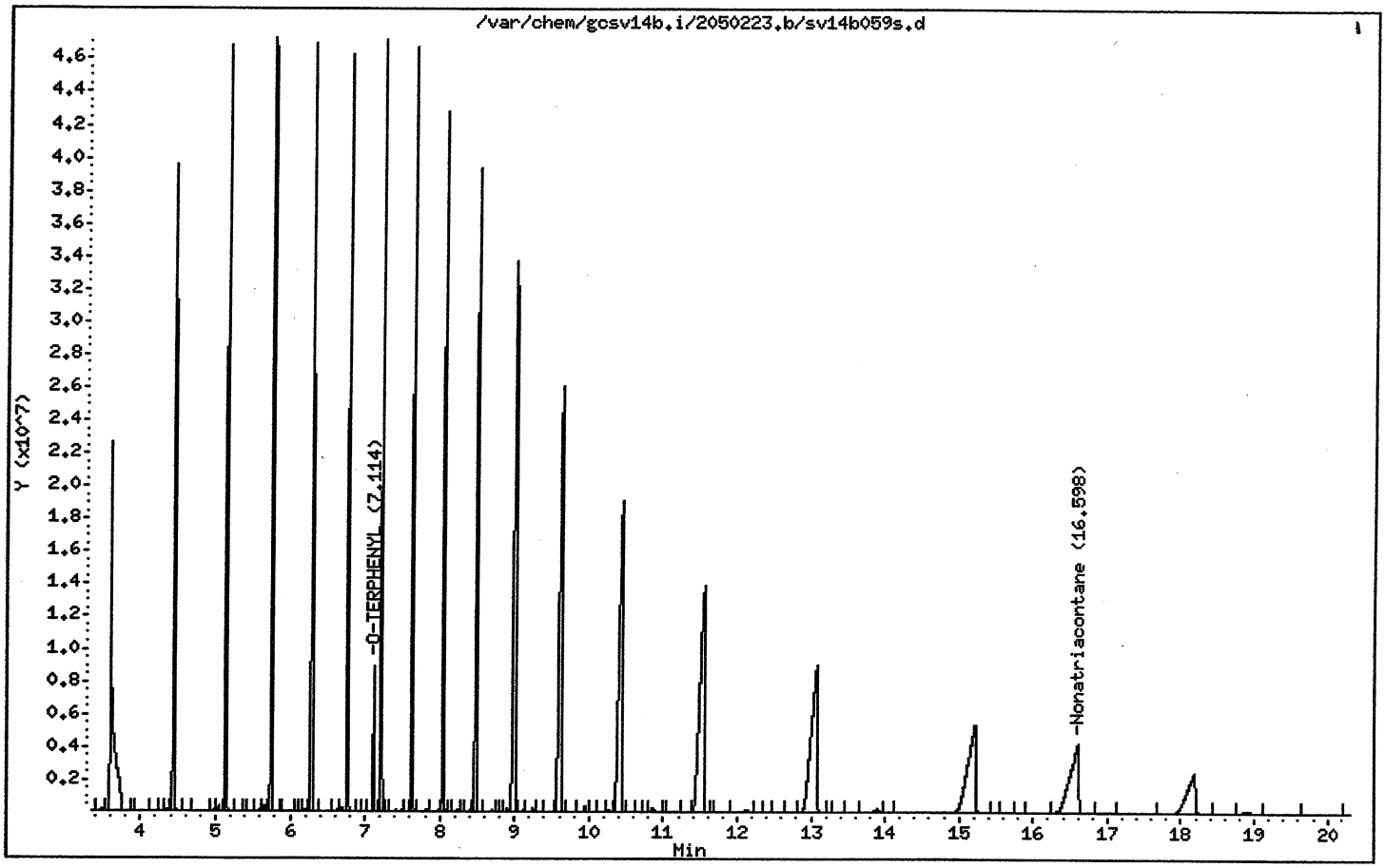
Sample Info: 1205-1-flpro 350

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV1
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: PROicv.spk
Sublist File: PRO.sub
Method File: /var/chem/gcsv14b.i/2050223.b/flpro.m
Misc Info:

Client SDG: 2050223
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
20 Total PRO	850.0000	781.6696	91.96	85-115

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b061.d
Lab Smp Id: ICV1
Inj Date : 23-FEB-2005 13:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : ICV1-1-flpro 500
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 23-Feb-2005 14:12 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 61 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	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	7.203	7.211	-0.008	2540633310	781.670	781.6696(M)

QC Flag Legend

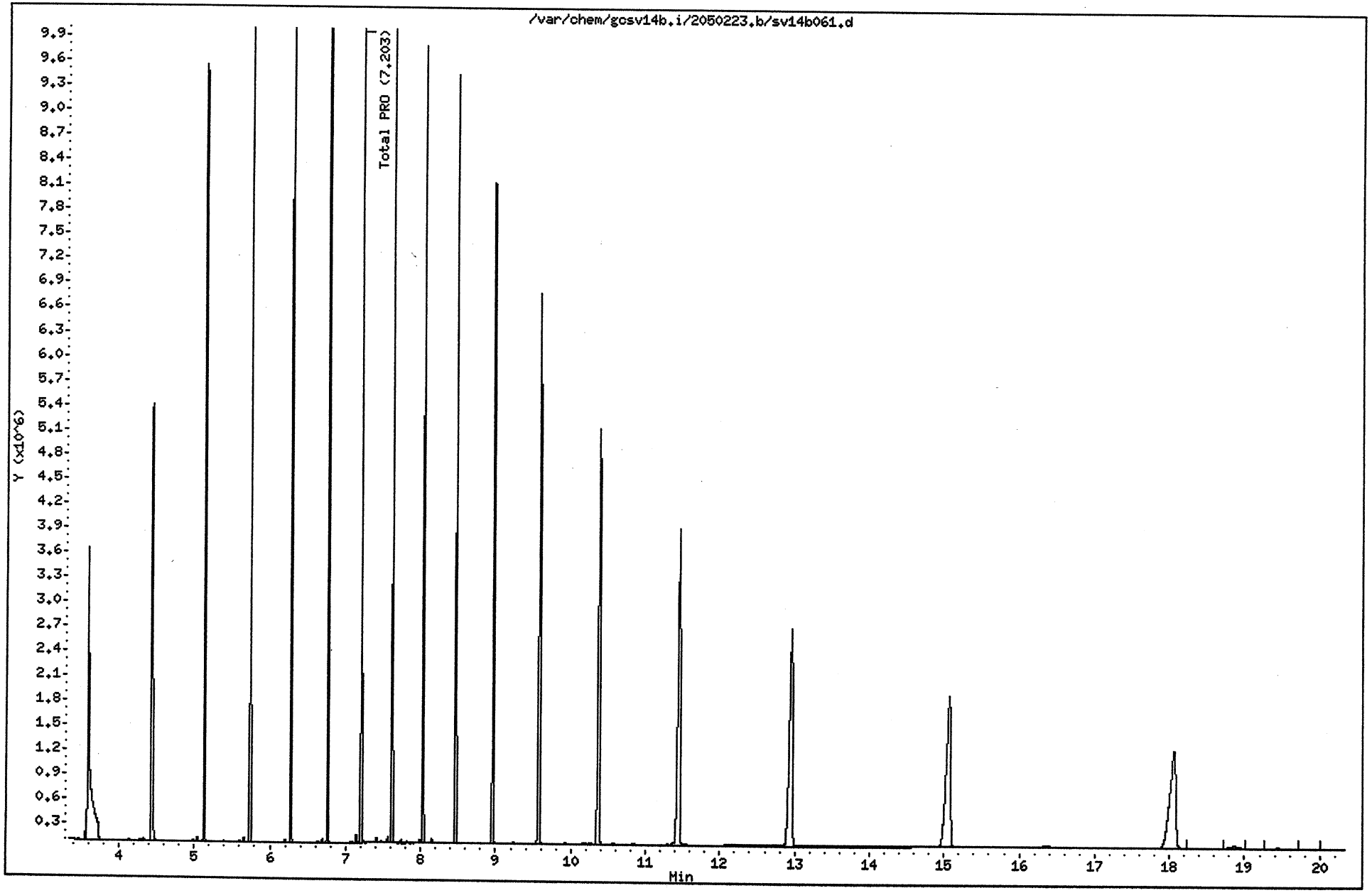
M - Compound response manually integrated.

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b061.d
Date : 23-FEB-2005 13:53
Client ID:
Sample Info: ICV1-1-flpro 500
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000413



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Instrument ID: GCSV14b Calibration Date: 02/23/05 Time: 1931

Lab File ID: sv14b072 Init. Calib. Date(s): 02/23/05 02/23/05

Init. Calib. Times: 0925 1323

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	3250265	3285938		1.1	25
O-TERPHENYL	2912949	3076714		5.6	25
Nonatriacontane	2563738	2762707		7.8	25

All other compounds must meet a minimum RRF of 0.010.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b072.d
Lab Smp Id: 1400
Inj Date : 23-FEB-2005 19:31
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 50
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:01 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 72 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.616	6.964	0.652	3775695236	850.000	1161.6578(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3775695236 - 982647766}{850} = \frac{3285938 - 3250265}{3250265} \cdot 100 = -1.1\%$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b072s.d
Lab Smp Id: 1400
Inj Date : 23-FEB-2005 19:31
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 50
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:02 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 72 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.112	7.119	-0.007	153835706	50.0000	52.8109
$ 18 Nonatriacontane	16.597	16.597	0.000	828812060	300.000	323.2827

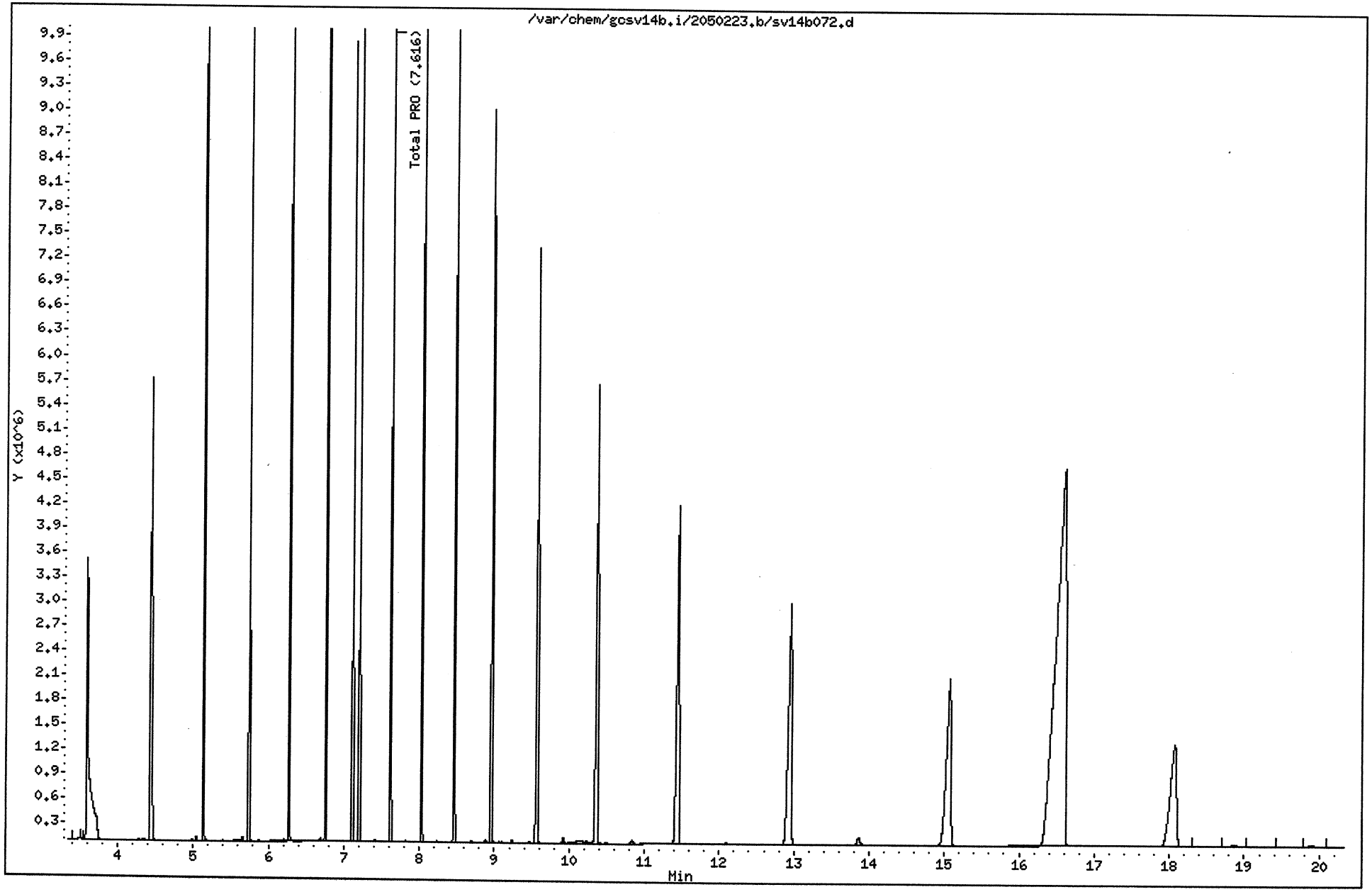
982647766

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b072.d
Date : 23-FEB-2005 19:31
Client ID:
Sample Info: 1400-1-ccv 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000417



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b072s.d

Date : 23-FEB-2005 19:31

Client ID:

Instrument: gcsv14b.i

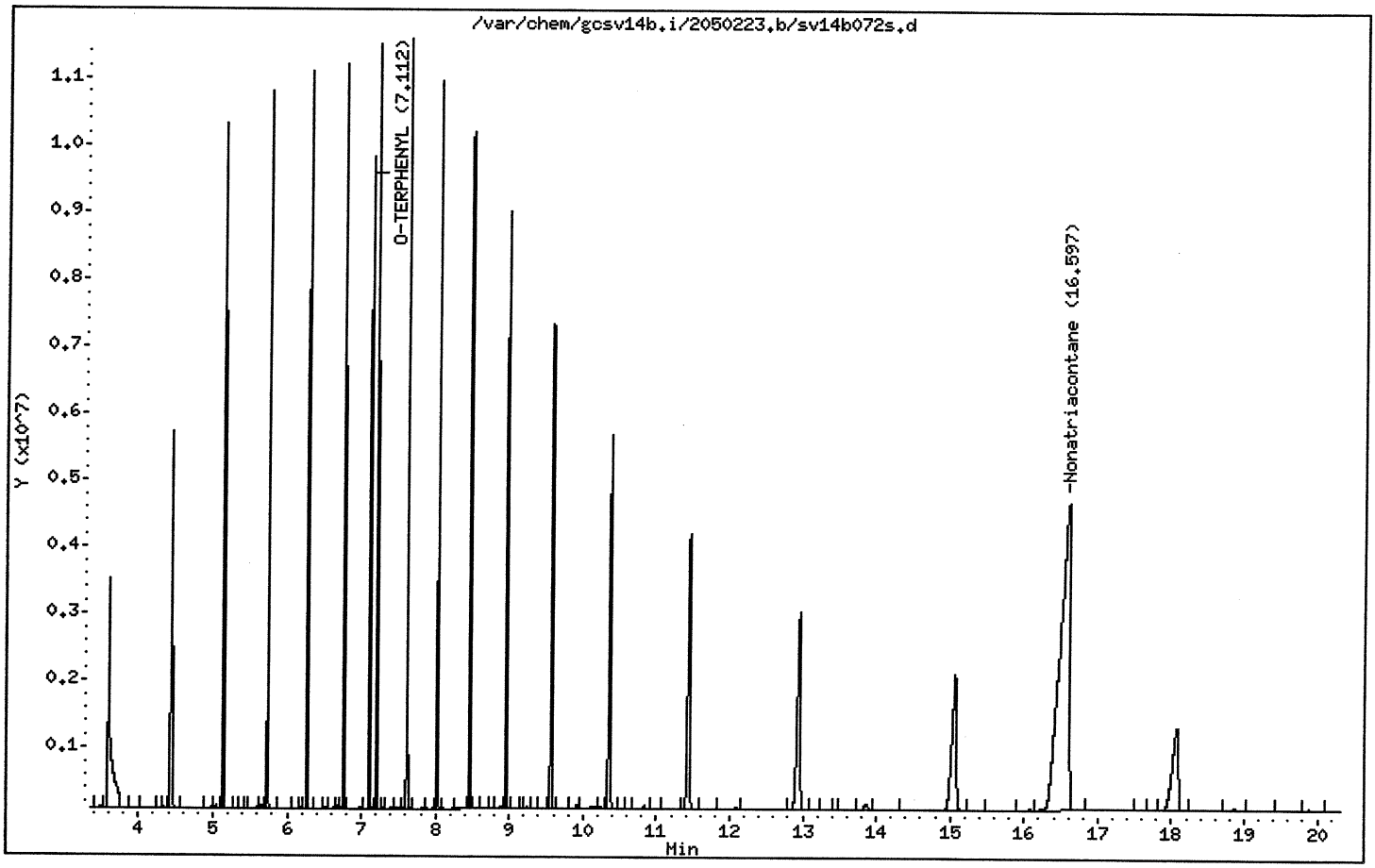
Sample Info: 1400-1-ccv 50

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Instrument ID: GCSV14b Calibration Date: 02/24/05 Time: 0029

Lab File ID: sv14b082 Init. Calib. Date(s): 02/23/05 02/23/05

Init. Calib. Times: 0925 1323

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	3250265	3676260		13.1	25
O-TERPHENYL	2912949	3037065		4.3	25
Nonatriacontane	2563738	2795746		9.0	25

All other compounds must meet a minimum RRF of 0.010.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b082.d
Lab Smp Id: 1400
Inj Date : 24-FEB-2005 00:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 6
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:01 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 82 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.111	6.964	0.147	1365555577	850.000	420.1367(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1365555577 - 99057036}{102} = \frac{3676260 - 3250265}{3250265} \cdot 100 = 13.11$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b082s.d
Lab Smp Id: 1400
Inj Date : 24-FEB-2005 00:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 6
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:02 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 82 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.111	7.119	-0.008	151853260	50.0000	52.1304
$ 18 Nonatriacontane	16.591	16.597	-0.006	838723776	300.000	327.1488

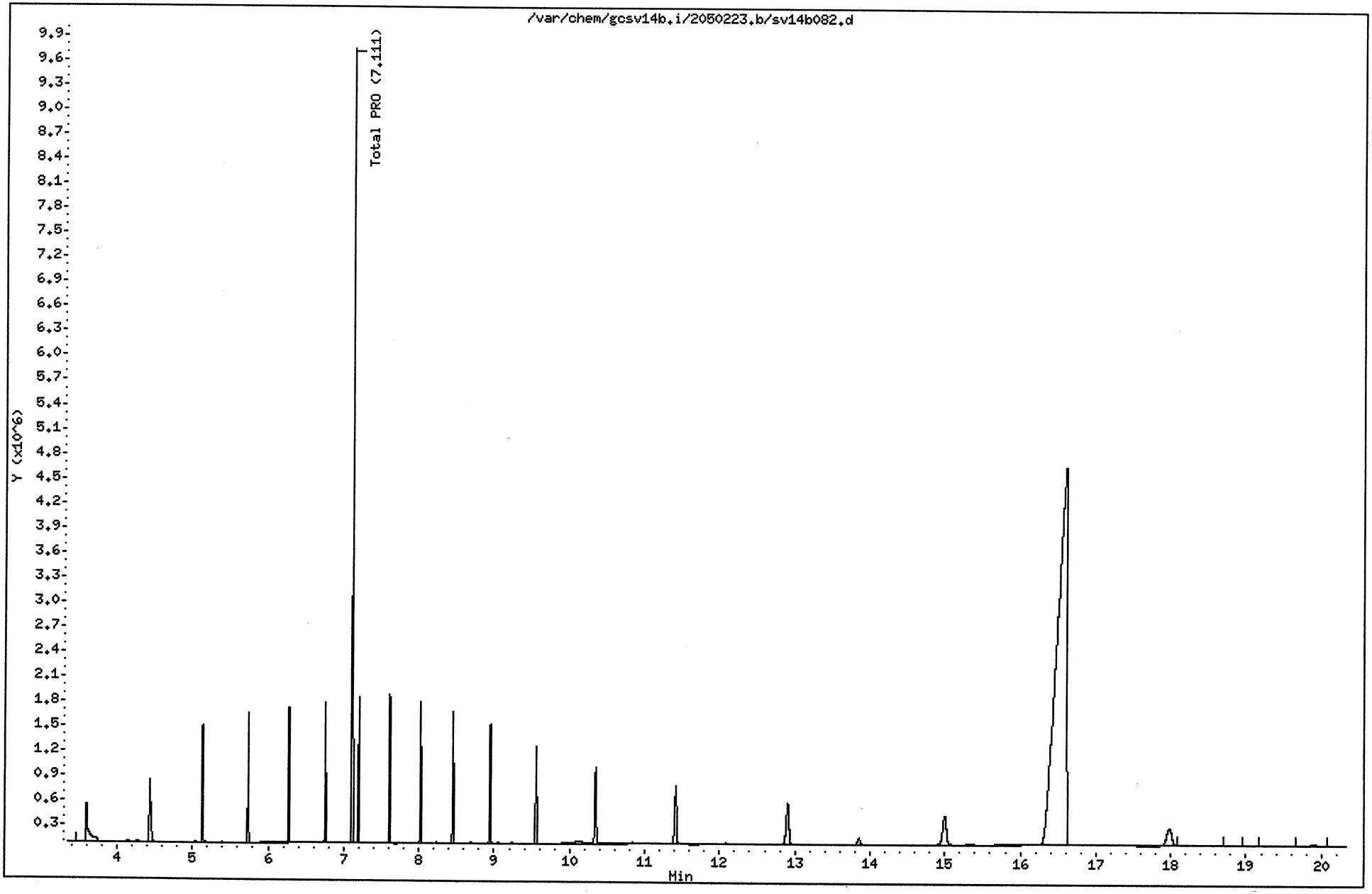
990577036

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b082.d
Date : 24-FEB-2005 00:29
Client ID:
Sample Info: 1400-1-ccv 6
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000422



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b082s.d

Date : 24-FEB-2005 00:29

Client ID:

Instrument: gcsv14b.i

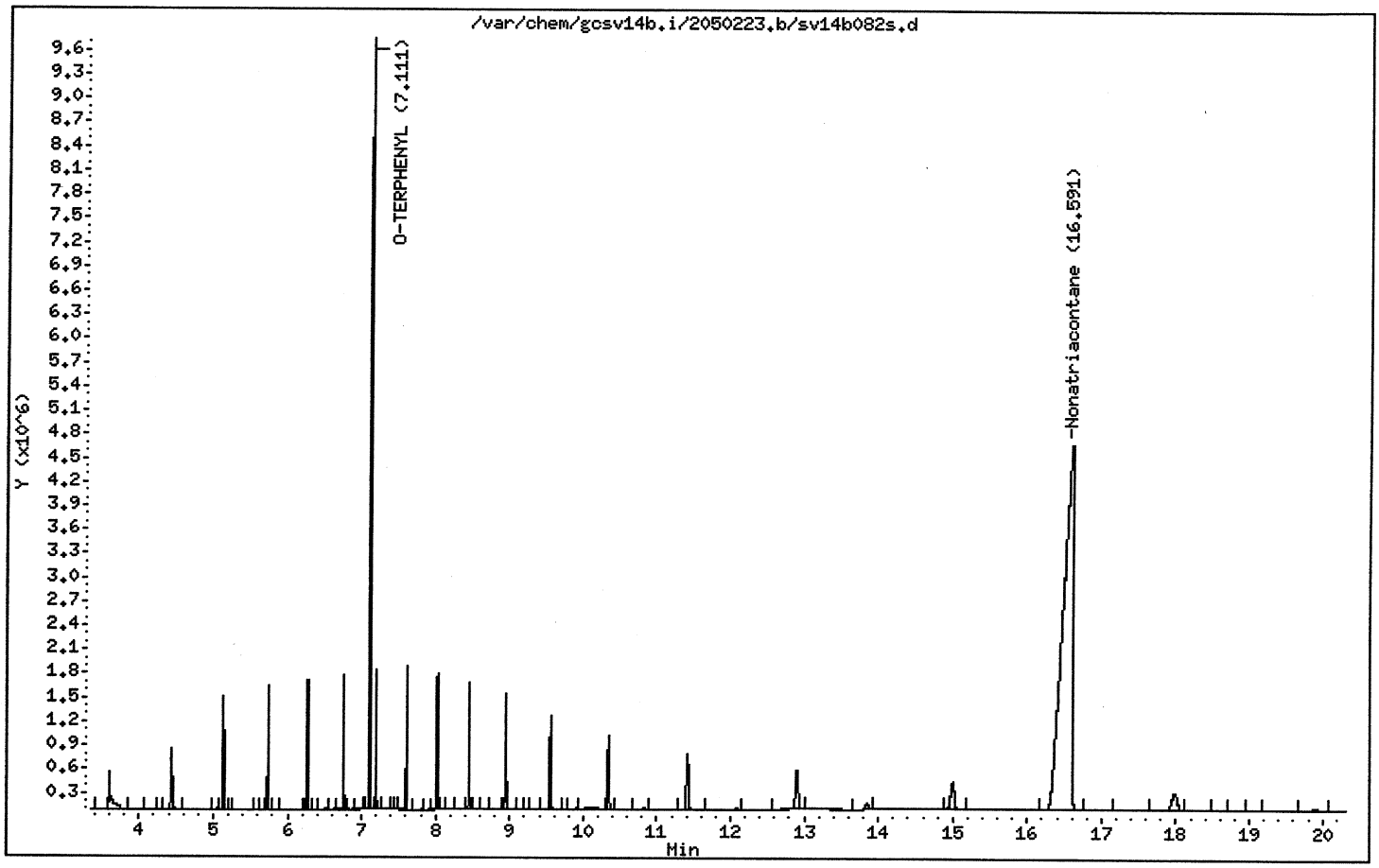
Sample Info: 1400-1-ccv 6

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Instrument ID: GCSV14b Calibration Date: 02/24/05 Time: 0809

Lab File ID: sv14b090 Init. Calib. Date(s): 02/23/05 02/23/05

Init. Calib. Times: 0925 1323

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	3250265	3352235		3.1	25
O-TERPHENYL	2912949	3151005		8.2	25
Nonatriacontane	2563738	2399151		6.4	25

All other compounds must meet a minimum RRF of 0.010.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b090.d
Lab Smp Id: 1400
Inj Date : 24-FEB-2005 08:09
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 50
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.647	7.017	0.630	3726695468	850.000	1146.5821(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3726695468 - 877295614}{850} = \frac{3352235 - 3250265}{3250265} \cdot 100 = -3.1\%$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b090s.d
Lab Smp Id: 1400
Inj Date : 24-FEB-2005 08:09
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1400-1-ccv 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 90 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.126	7.120	0.006	157550272	50.0000	54.0861
$ 18 Nonatriacontane	16.698	16.698	0.000	719745342	300.000	280.7406

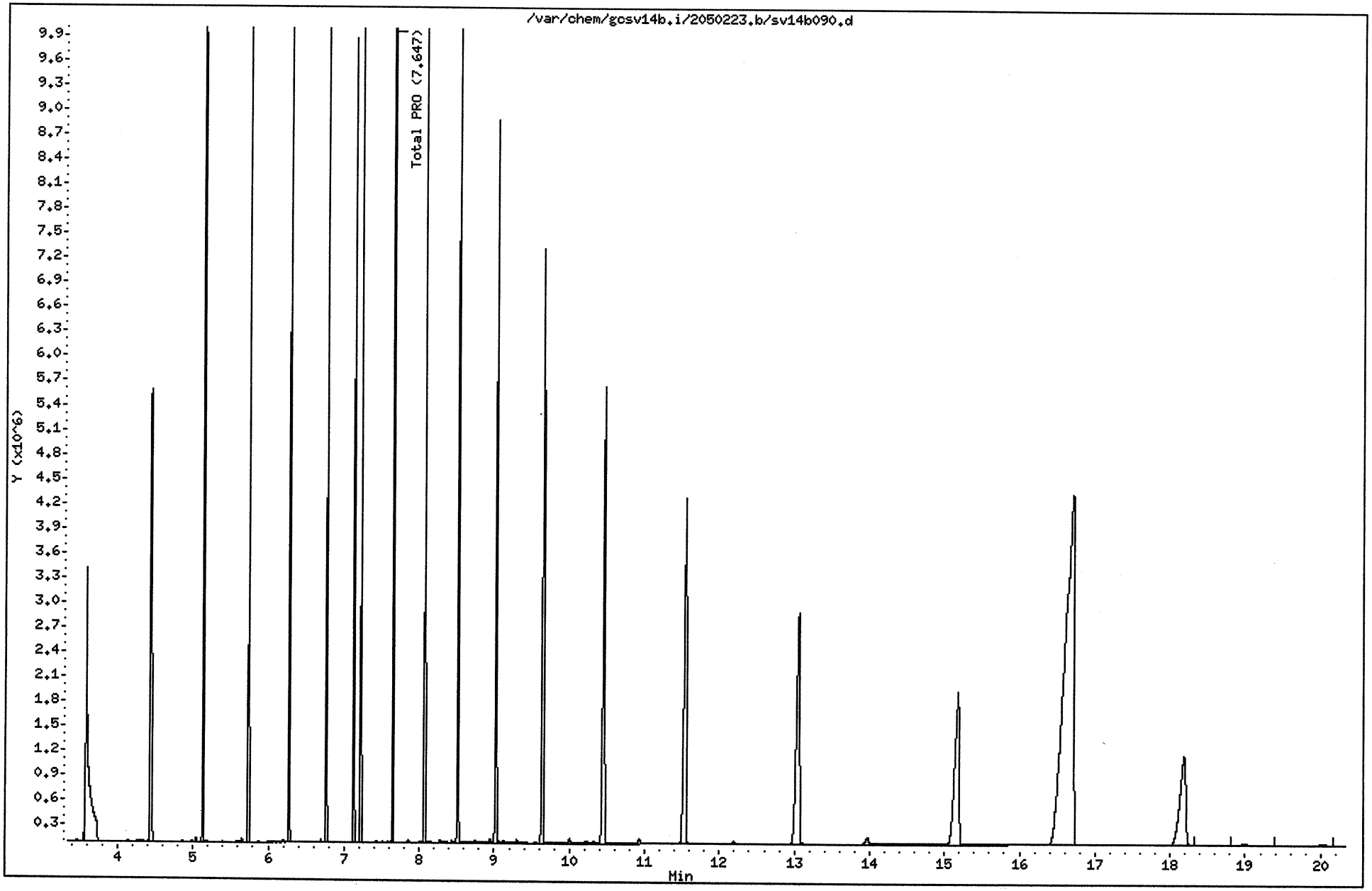
877295614

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b090.d
Date : 24-FEB-2005 08:09
Client ID:
Sample Info: 1400-1-ccv 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000427



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b090s.d

Date : 24-FEB-2005 08:09

Client ID:

Instrument: gcsv14b.i

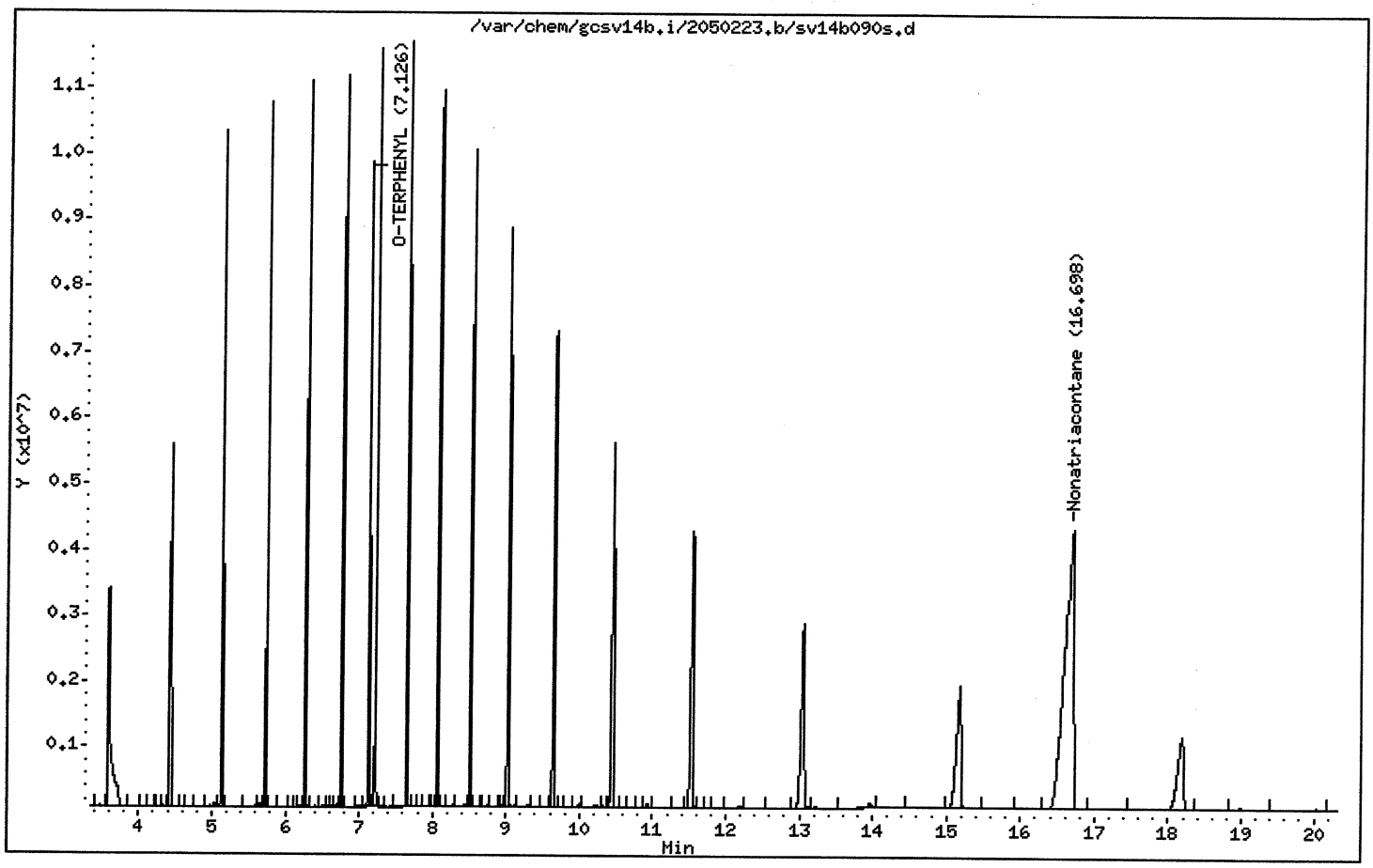
Sample Info: 1400-1-ccv 50

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: MB224271
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 205021805
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 224271
Level: (low/med) LOW
Date Collected: Time:
% Moisture: decanted: (Y/N)
Date Received:
GC Column: ID: (mm)
Date Extracted: 02/18/05
Concentrated Extract Volume: 2000 (µL)
Date Analyzed: 02/23/05 Time: 1434
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method: FLORIDA PRO
GPC Cleanup: (Y/N) N pH:
Analytical Method: FLORIDA PRO
Prep Batch: 287723 Analytical Batch: 287991
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
CONCENTRATION UNITS: ug/L
Lab File ID: 2050223/SV14B062S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b062.d
Lab Smp Id: 224271
Inj Date : 23-FEB-2005 14:34
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224271-1-blk
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 23-Feb-2005 15:10 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 62
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	7.122	7.211	-0.089	689257534	212.062	424.1239(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{689257534 - 664965851}{3250265} \cdot \frac{2000}{1000} = 14.9 \text{ ug/L} < \text{CRL}$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b062s.d
Lab Smp Id: 224271
Inj Date : 23-FEB-2005 14:34
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224271-1-blk
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 14:13 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.122	7.118	0.004	141546546	48.5922	97.1843
$ 18 Nonatriacontane	16.630	16.565	0.065	523419305	204.163	408.3251

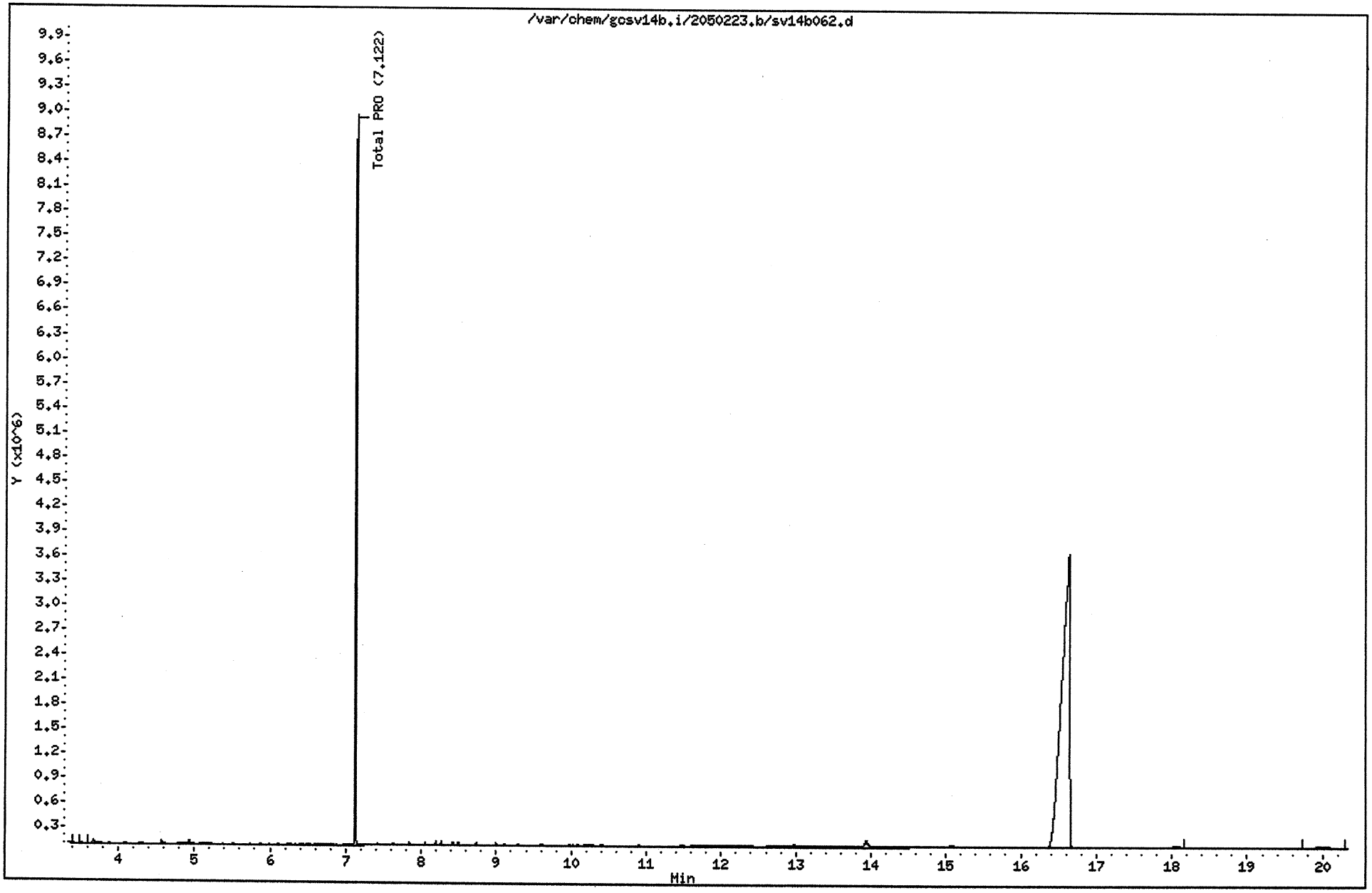
664965851

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b062.d
Date : 23-FEB-2005 14:34
Client ID:
Sample Info: 224271-1-blk
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000432



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b062s.d

Date : 23-FEB-2005 14:34

Client ID:

Instrument: gcsv14b.i

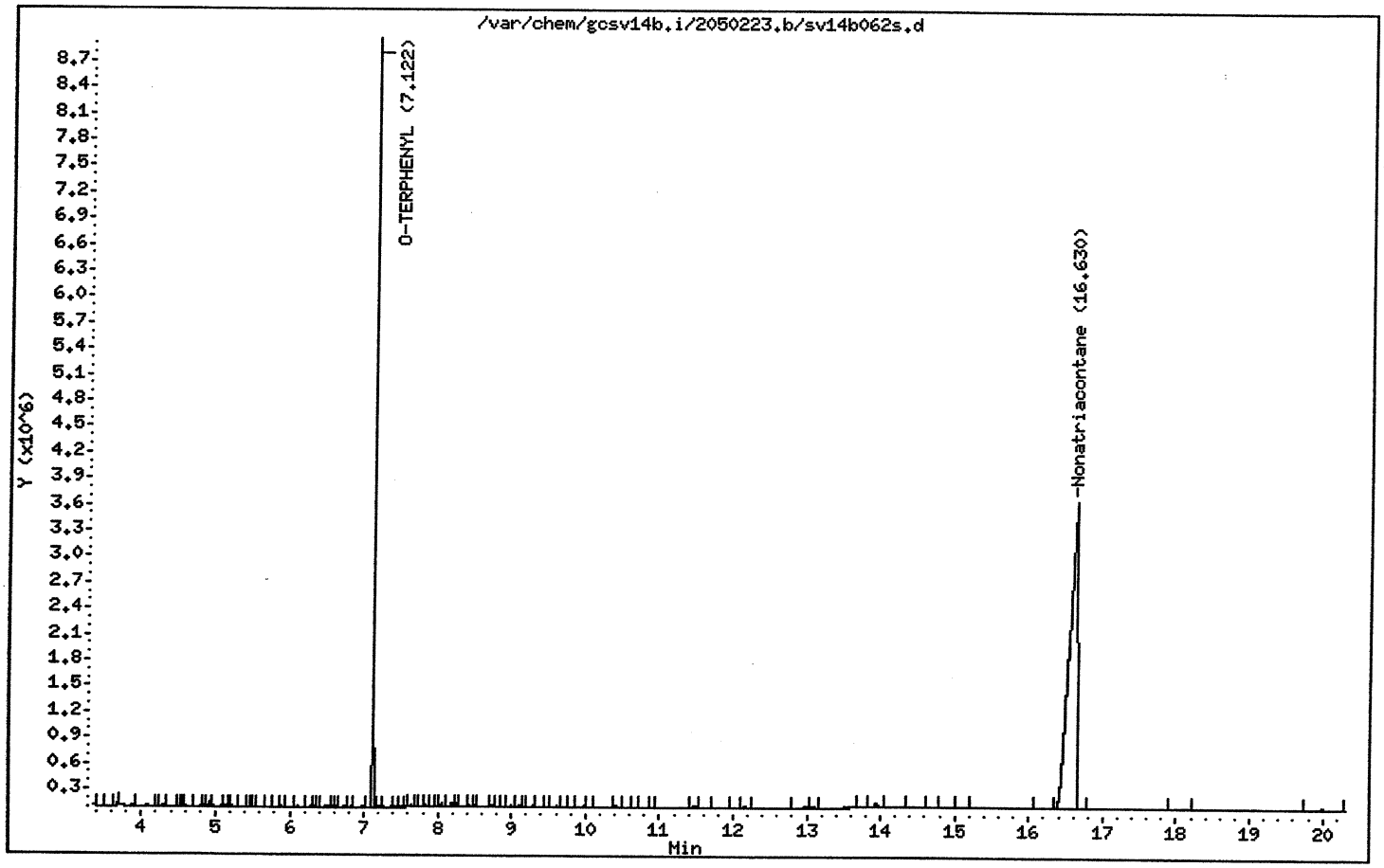
Sample Info: 224271-1-blk

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

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: 287772 Analytical Batch: 287991

CONCENTRATION UNITS: ug/kg

Sample ID: MB224450

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 224450

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/24/05 Time: 0129

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B083S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8000	U	5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b083.d
Lab Smp Id: 224450
Inj Date : 24-FEB-2005 01:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224450-1-blk
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.110	7.017	0.093	750765375	230.986	18478.8741(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{750765375 - 770311783}{3250265} \cdot \frac{2000}{25} = 0 \quad <DL$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b083s.d
Lab Smp Id: 224450
Inj Date : 24-FEB-2005 01:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224450-1-blk
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.110	7.120	-0.010	142299694	48.8507	3908.0589
$ 18 Nonatriacontane	16.551	16.698	-0.147	628012089	244.960	19596.7664

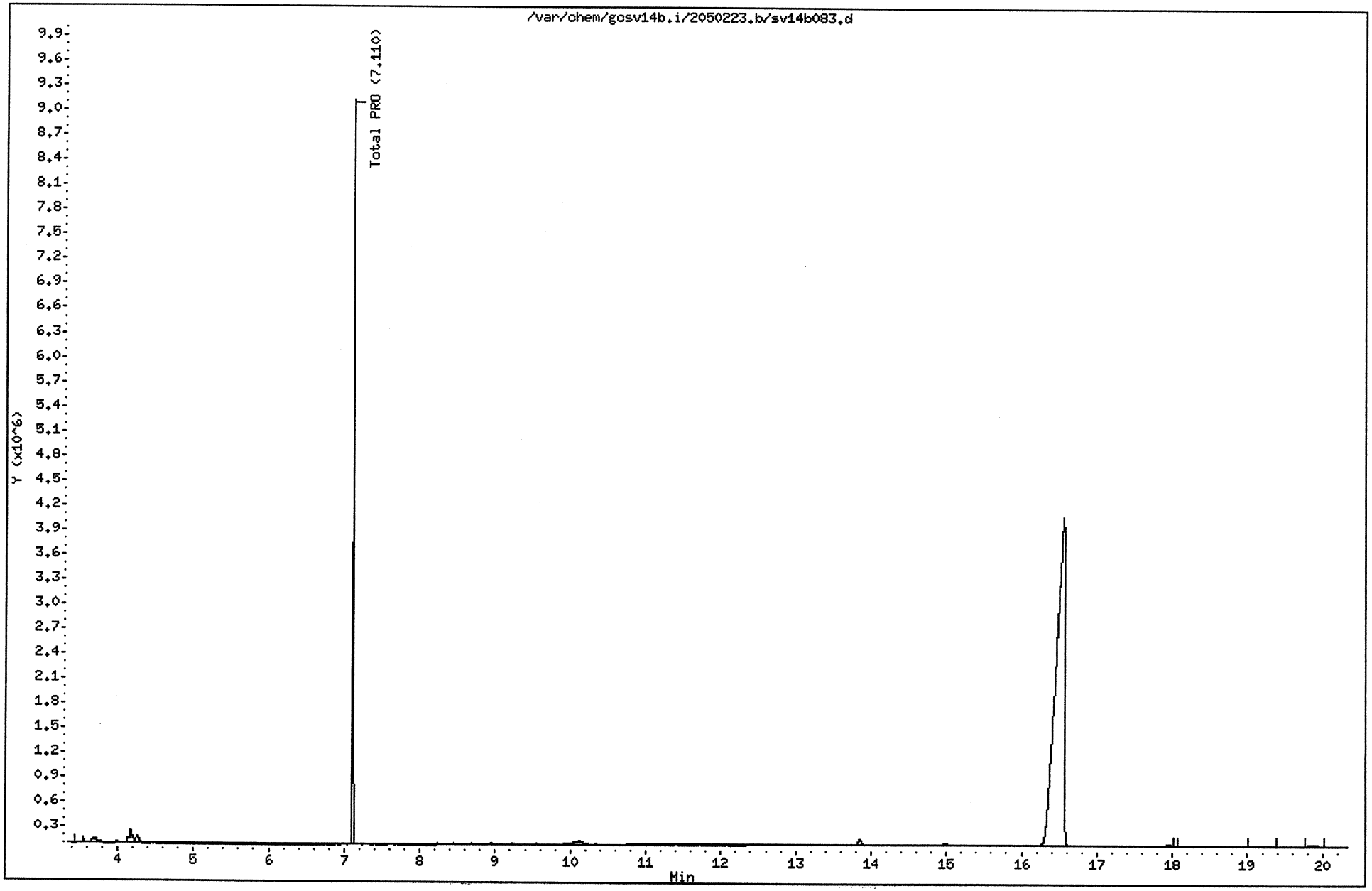
770311783

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b083.d
Date : 24-FEB-2005 01:29
Client ID:
Sample Info: 224450-1-blk
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000437



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b083s.d

Date : 24-FEB-2005 01:29

Client ID:

Instrument: gcsv14b.i

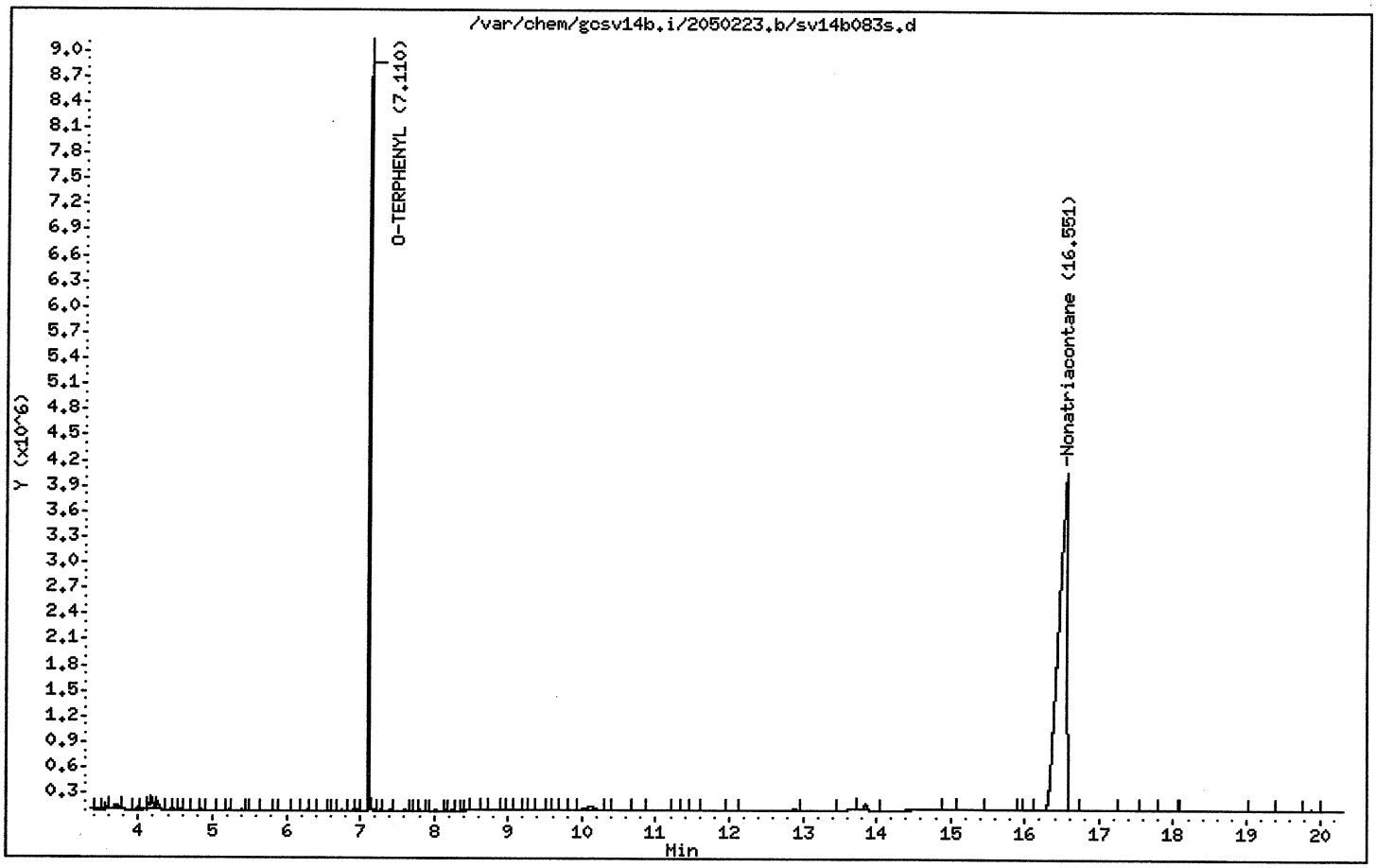
Sample Info: 224450-1-blk

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

CONCENTRATION UNITS: ug/L

Sample ID: LCS224272

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 224272

Date Collected: Time:

Date Received:

Date Extracted: 02/18/05

Date Analyzed: 02/23/05 Time: 1504

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B063S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1060		40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b063.d
Lab Smp Id: 224272
Inj Date : 23-FEB-2005 15:04
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224272-1-lcs
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.619	7.017	0.602	2252861576	693.132	1386.2635(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2252861576 - 534329243}{3250265} \cdot \frac{2000}{1000} = 1057 \text{ ug/L}$$

62%

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b063s.d
Lab Smp Id: 224272
Inj Date : 23-FEB-2005 15:04
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224272-1-lcs
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 23-Feb-2005 14:13 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 63
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.113	7.118	-0.005	103854257	35.6526	71.3052(R)
$ 18 Nonatriacontane	16.540	16.565	-0.025	430474986	167.909	335.8182

534329243

QC Flag Legend

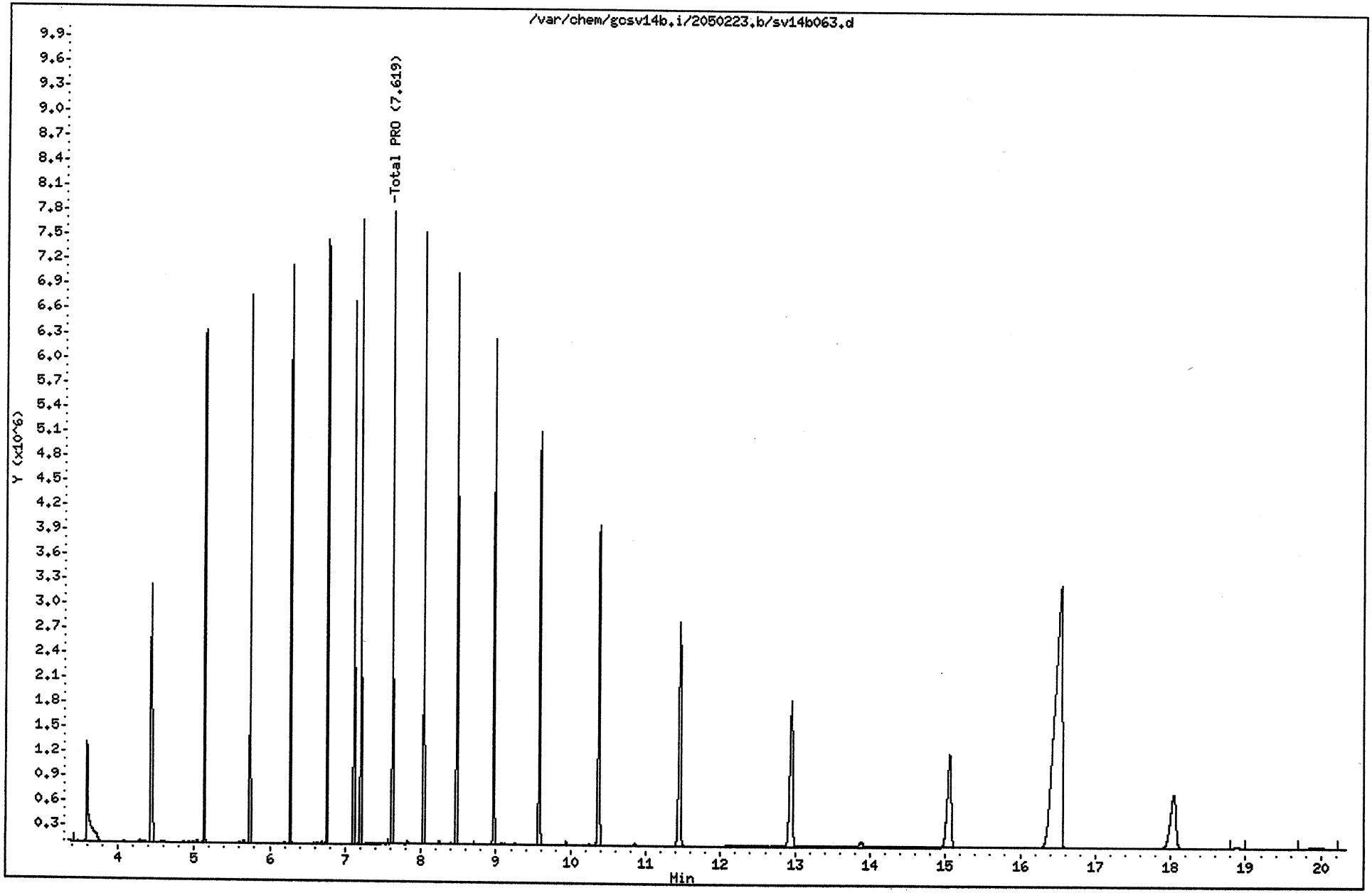
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b063.d
Date : 23-FEB-2005 15:04
Client ID:
Sample Info: 224272-1-lcs
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000442



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b063s.d

Date : 23-FEB-2005 15:04

Client ID:

Instrument: gcsv14b.i

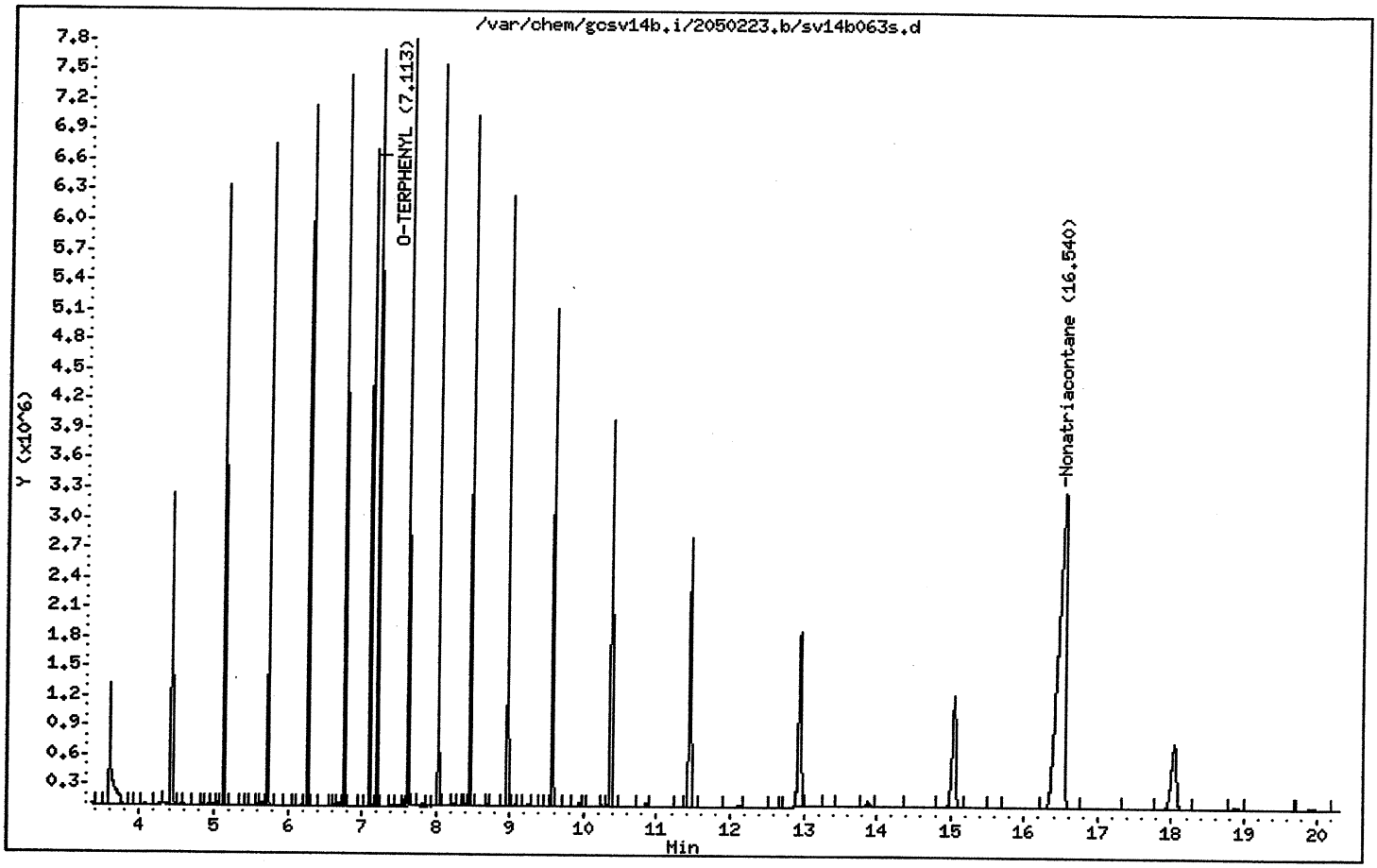
Sample Info: 224272-1-lcs

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

CONCENTRATION UNITS: ug/L

Sample ID: LCSD224273

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 224273

Date Collected: Time:

Date Received:

Date Extracted: 02/18/05

Date Analyzed: 02/24/05 Time: 0427

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B089S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1480		40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b089.d
Lab Smp Id: 224273
Inj Date : 24-FEB-2005 04:27
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224273-1-lcs
Misc Info : GCSV~47XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 89
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.199	7.017	0.182	2946719312	906.609	1813.2181 (M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2946719312 - 548381367}{3250265} \cdot \frac{2000}{1000} = 1476 \text{ ug/L}$$

87%

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b089s.d
Lab Smp Id: 224273
Inj Date : 24-FEB-2005 04:27
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224273-1-lcs
Misc Info : GCSV~47XX~*
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 89
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.108	7.120	-0.012	158260580	54.3300	108.6600
$ 18 Nonatriacontane	16.480	16.698	-0.218	390120787	152.169	304.3375

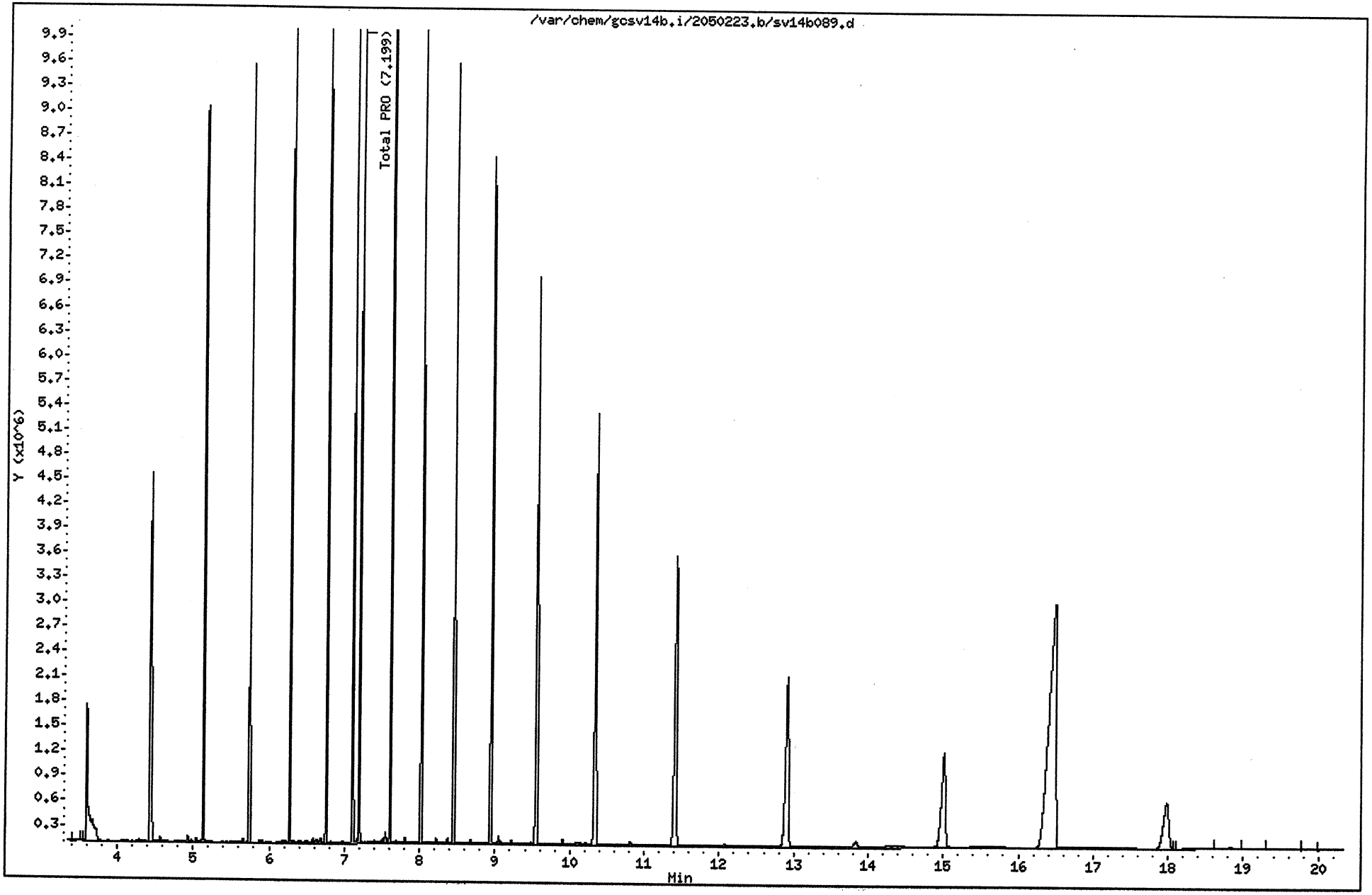
54838136 7

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b089.d
Date : 24-FEB-2005 04:27
Client ID:
Sample Info: 224273-1-lcs
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000447



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b089s.d

Date : 24-FEB-2005 04:27

Client ID:

Instrument: gcsv14b.i

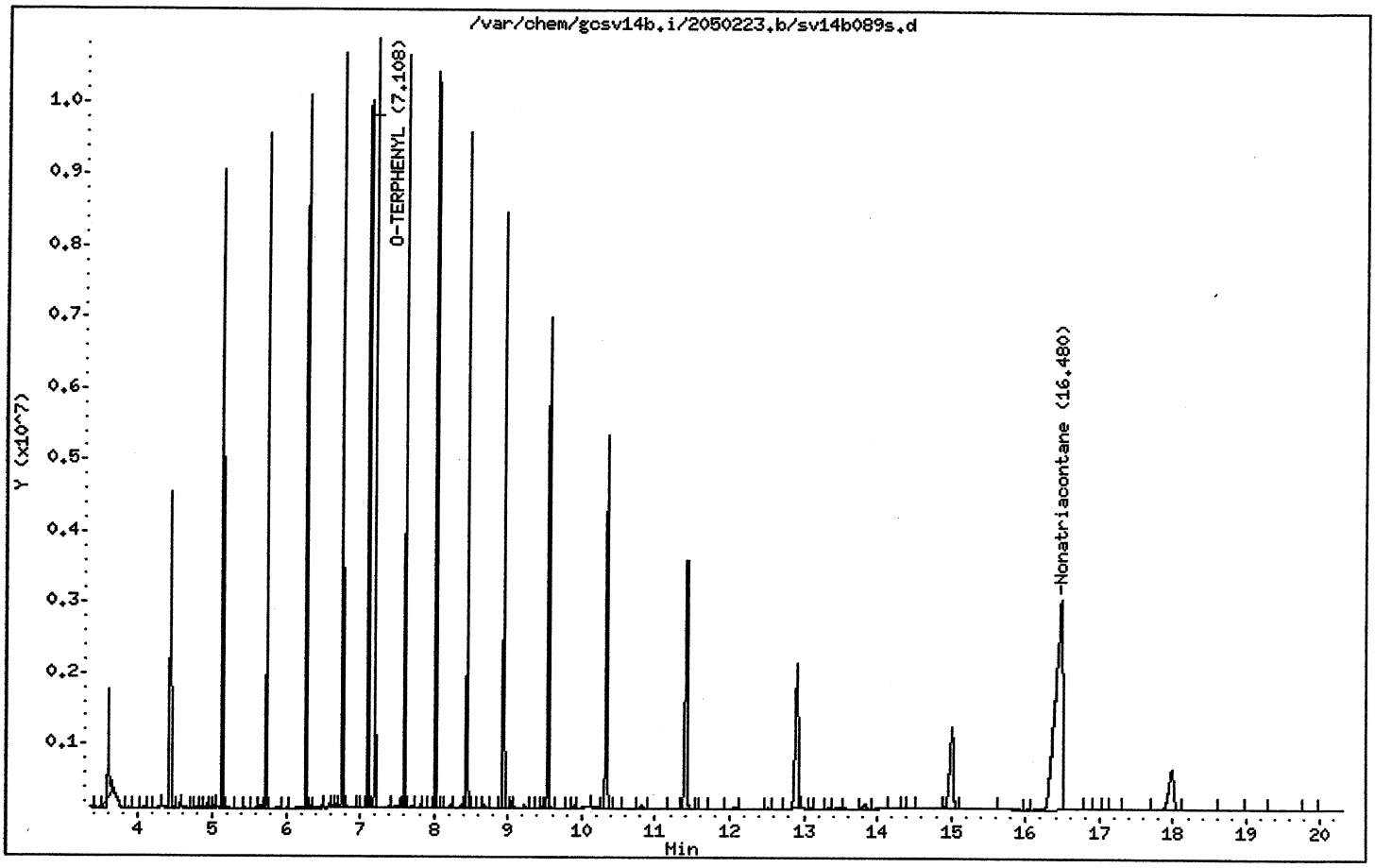
Sample Info: 224273-1-lcs

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
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: 287772 Analytical Batch: 287991

Sample ID: LCS224451
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224451
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/24/05 Time: 0158
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050223/SV14B084S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	49200		5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b084.d
Lab Smp Id: 224451
Inj Date : 24-FEB-2005 01:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224451-1-lcs
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.198	7.017	0.181	2646390274	814.208	65136.6119(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2646390274 - 649365456}{3250265} \cdot \frac{2000}{25} = 49{,}154 \text{ ug/kg}$$

72% R

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b084s.d
Lab Smp Id: 224451
Inj Date : 24-FEB-2005 01:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224451-1-lcs
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.108	7.120	-0.012	135487174	46.5120	3720.9627
$ 18 Nonatriacontane	16.516	16.698	-0.182	513878282	200.441	16035.2847

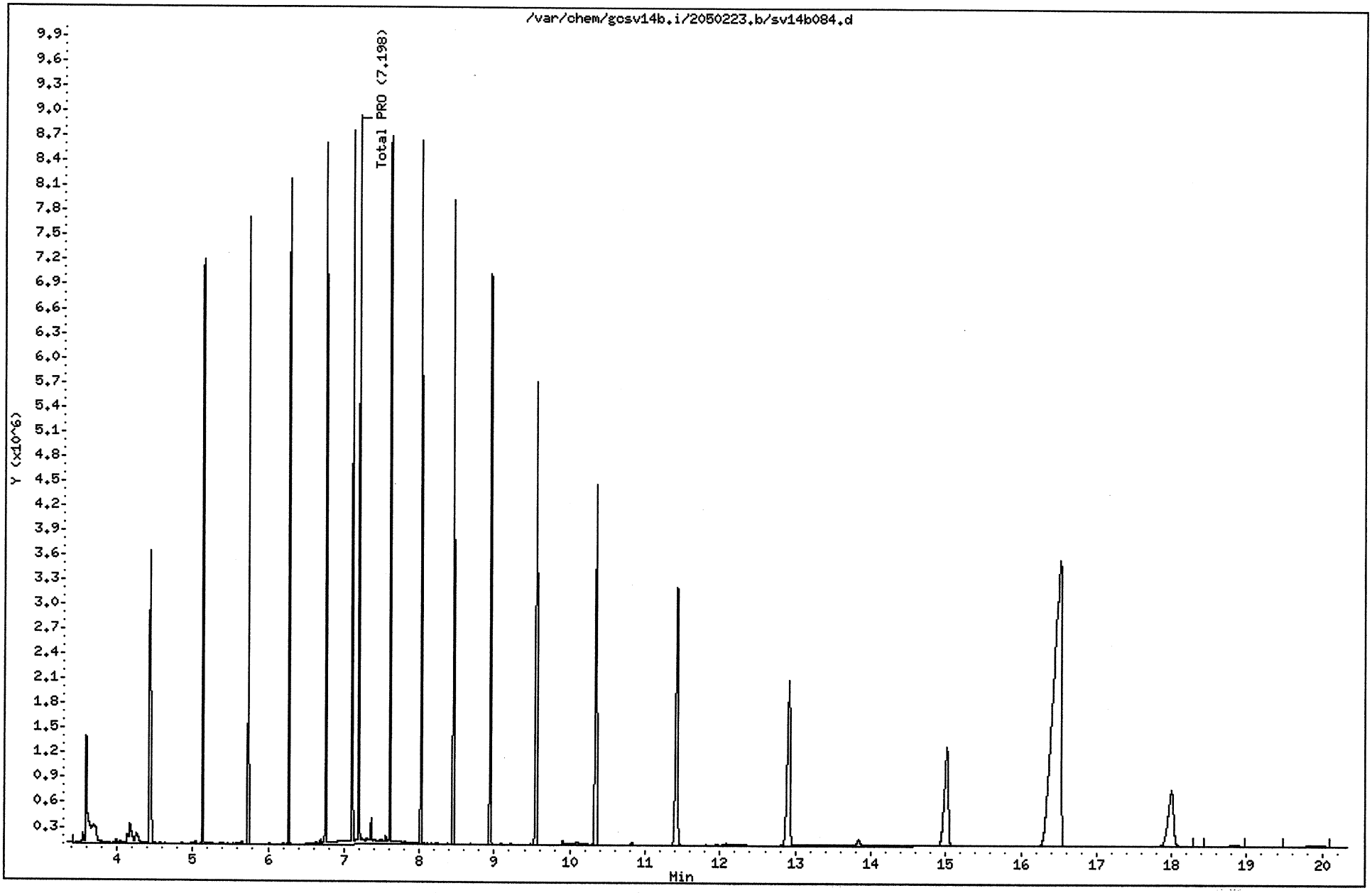
649365456

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b084.d
Date : 24-FEB-2005 01:58
Client ID:
Sample Info: 224451-1-lcs
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000452



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b084s.d

Date : 24-FEB-2005 01:58

Client ID:

Instrument: gcsv14b.i

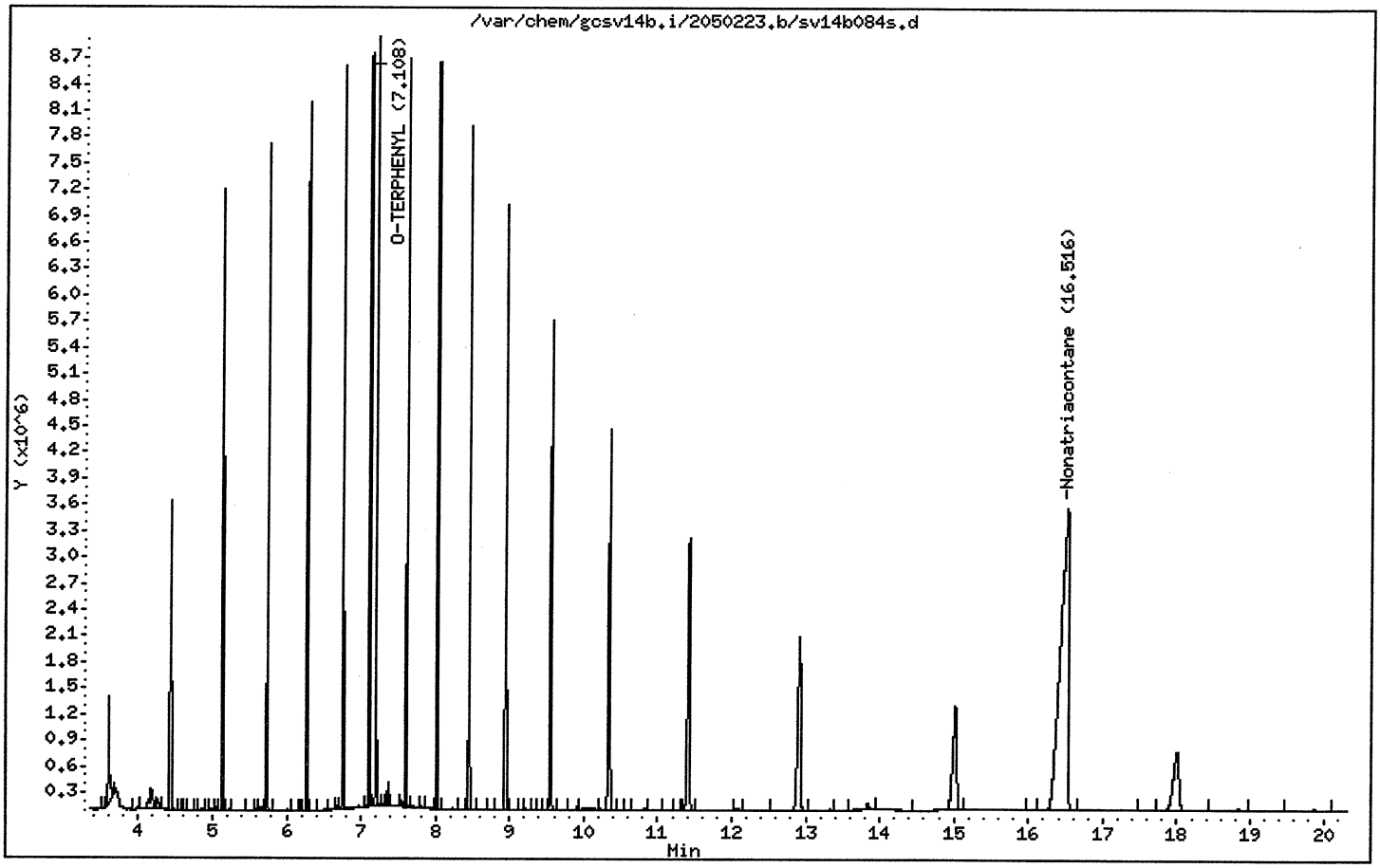
Sample Info: 224451-1-lcs

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
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: 287772 Analytical Batch: 287991

Sample ID: LCSD224452
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 224452
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/24/05 Time: 0228
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2050223/SV14B085S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	49200		5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b085.d
Lab Smp Id: 224452
Inj Date : 24-FEB-2005 02:28
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224452-1-lcsd
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 85
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.199	7.017	0.182	2578195034	793.226	63458.0964(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2578195034 - 577696735}{3250265} \cdot \frac{2000}{25} = 49,239 \text{ ug/kg}$$

72% R.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b085s.d
Lab Smp Id: 224452
Inj Date : 24-FEB-2005 02:28
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224452-1-lcsd
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 85
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.109	7.120	-0.011	134396192	46.1375	3691.0004
$ 18 Nonatriacontane	16.509	16.698	-0.189	443300543	172.912	13832.9458(R)

577696735

QC Flag Legend

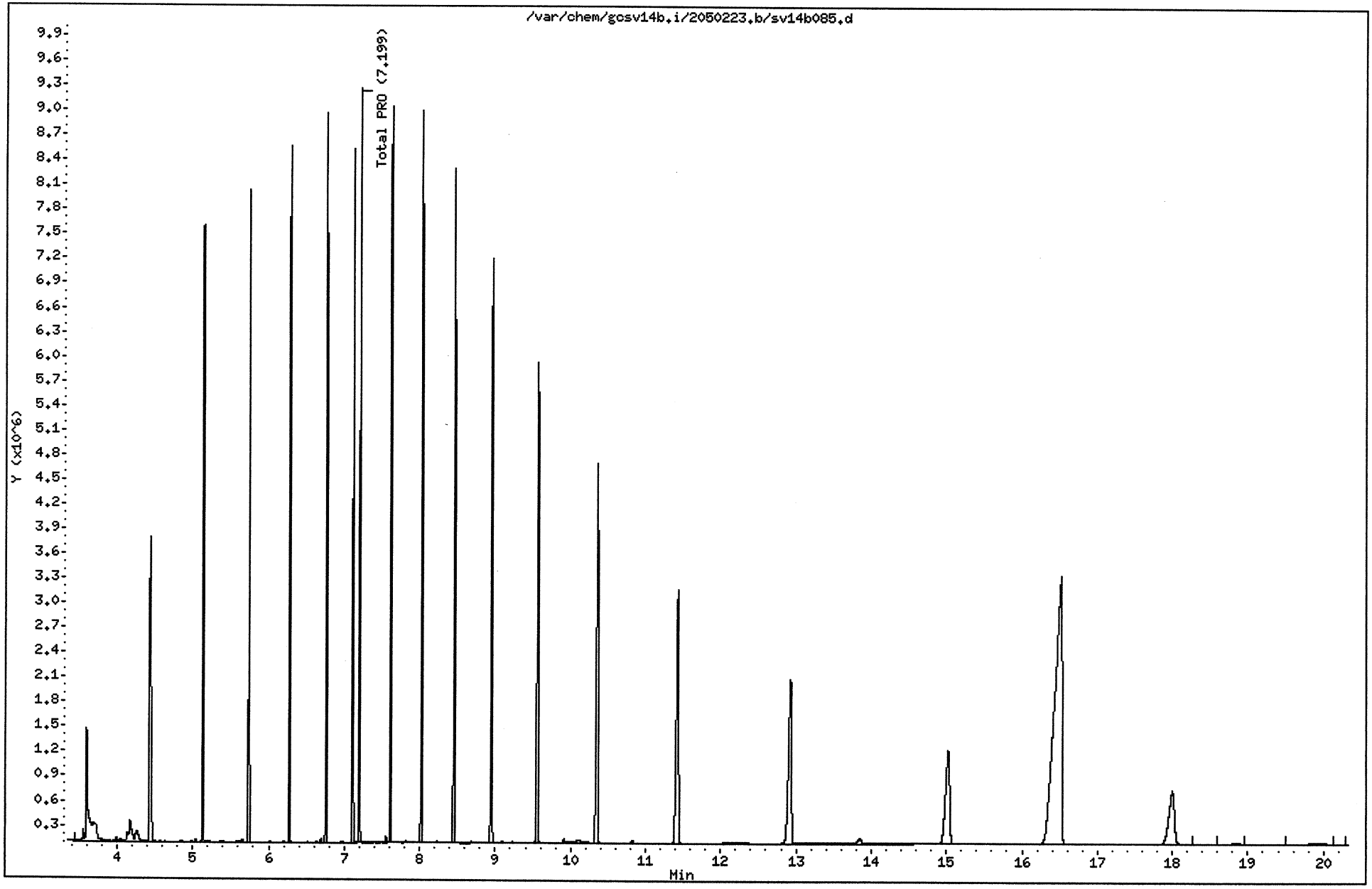
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b085.d
Date : 24-FEB-2005 02:28
Client ID:
Sample Info: 224452-1-lcsd
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000457



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b085s.d

Date : 24-FEB-2005 02:28

Client ID:

Instrument: gcsv14b.i

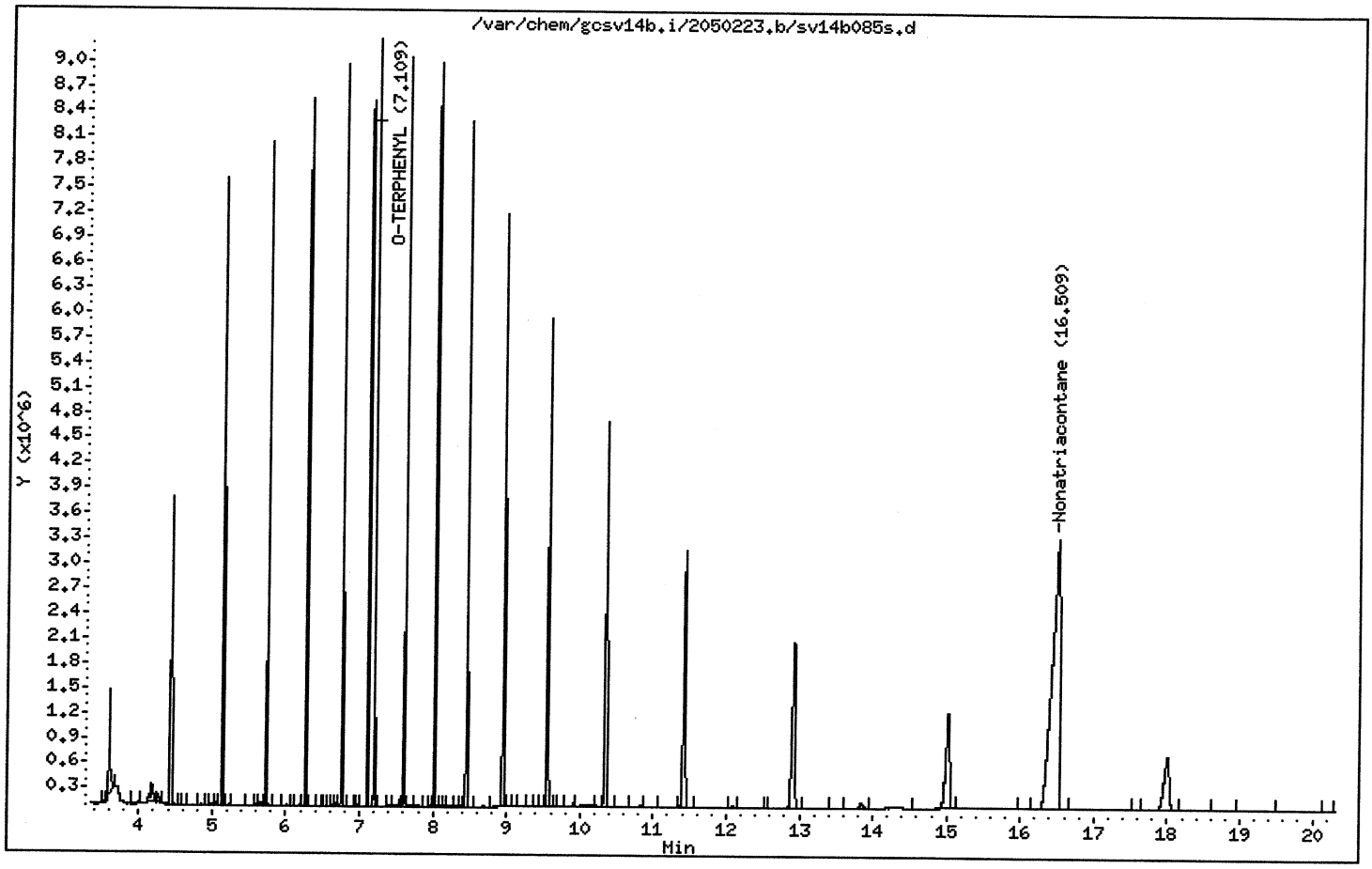
Sample Info: 224452-1-lcsd

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

Sample ID: 86-JETC-MS-Q1-05
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180111
Date Collected: 02/16/05 Time: 1140
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 2130
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050223/SV14B076S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1290		40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b076.d
Lab Smp Id: 20502180111
Inj Date : 23-FEB-2005 21:30
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180111-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 76
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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

MS

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	7.617	7.017	0.600	2746536834	845.019	1690.0389(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2746536834 - 644012131}{3250265} \cdot \frac{2000}{1000} = 1294 \text{ ug/L}$$

76% recov.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b076s.d
Lab Smp Id: 20502180111
Inj Date : 23-FEB-2005 21:30
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180111-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 76
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.113	7.120	-0.007	140756609	48.3210	96.6420
$ 18 Nonatriacontane	16.543	16.698	-0.155	503255522	196.298	392.5951

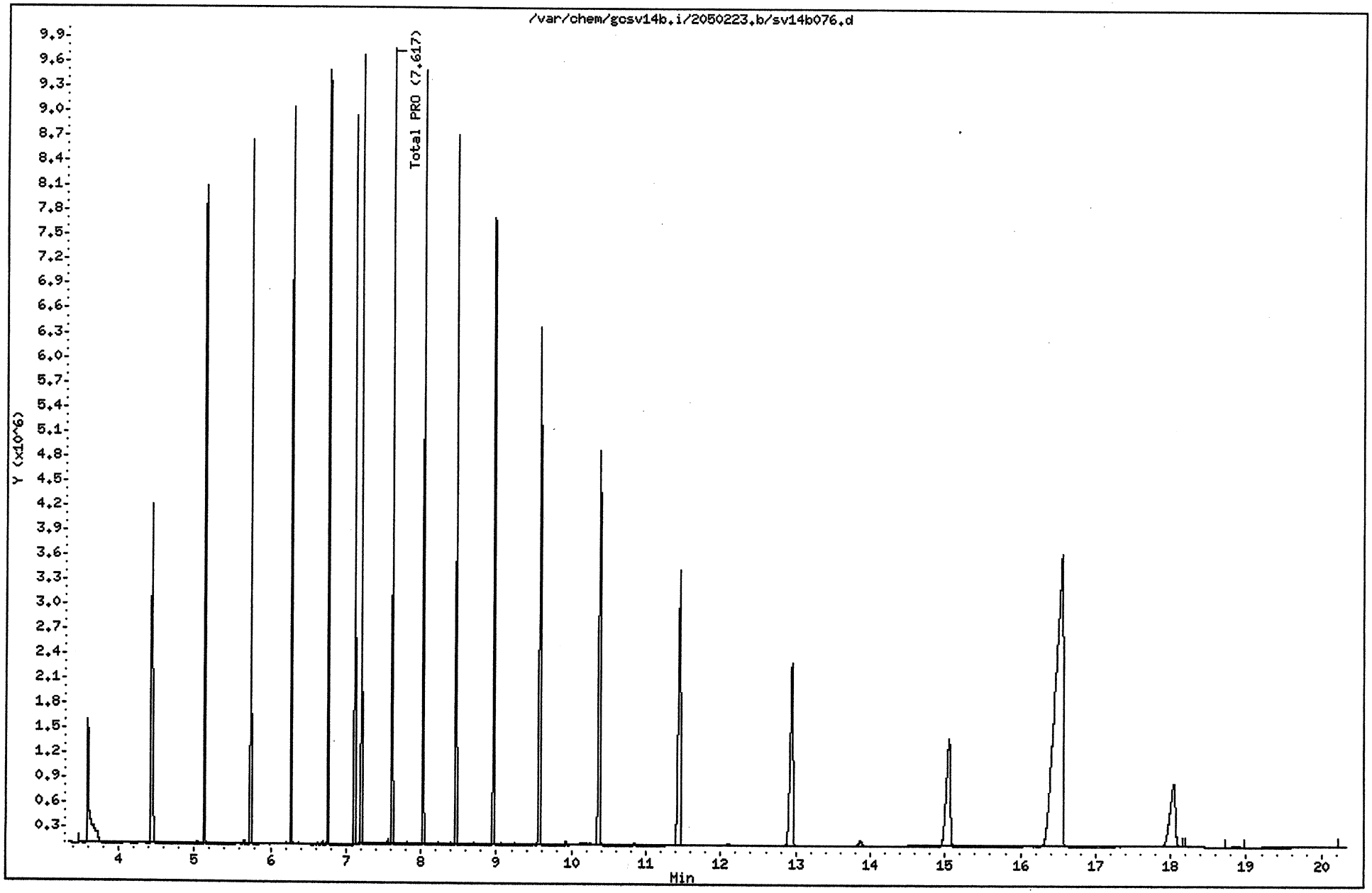
644012131

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b076.d
Date : 23-FEB-2005 21:30
Client ID:
Sample Info: 20502180111-1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000462



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b076s.d

Date : 23-FEB-2005 21:30

Client ID:

Instrument: gcsv14b.i

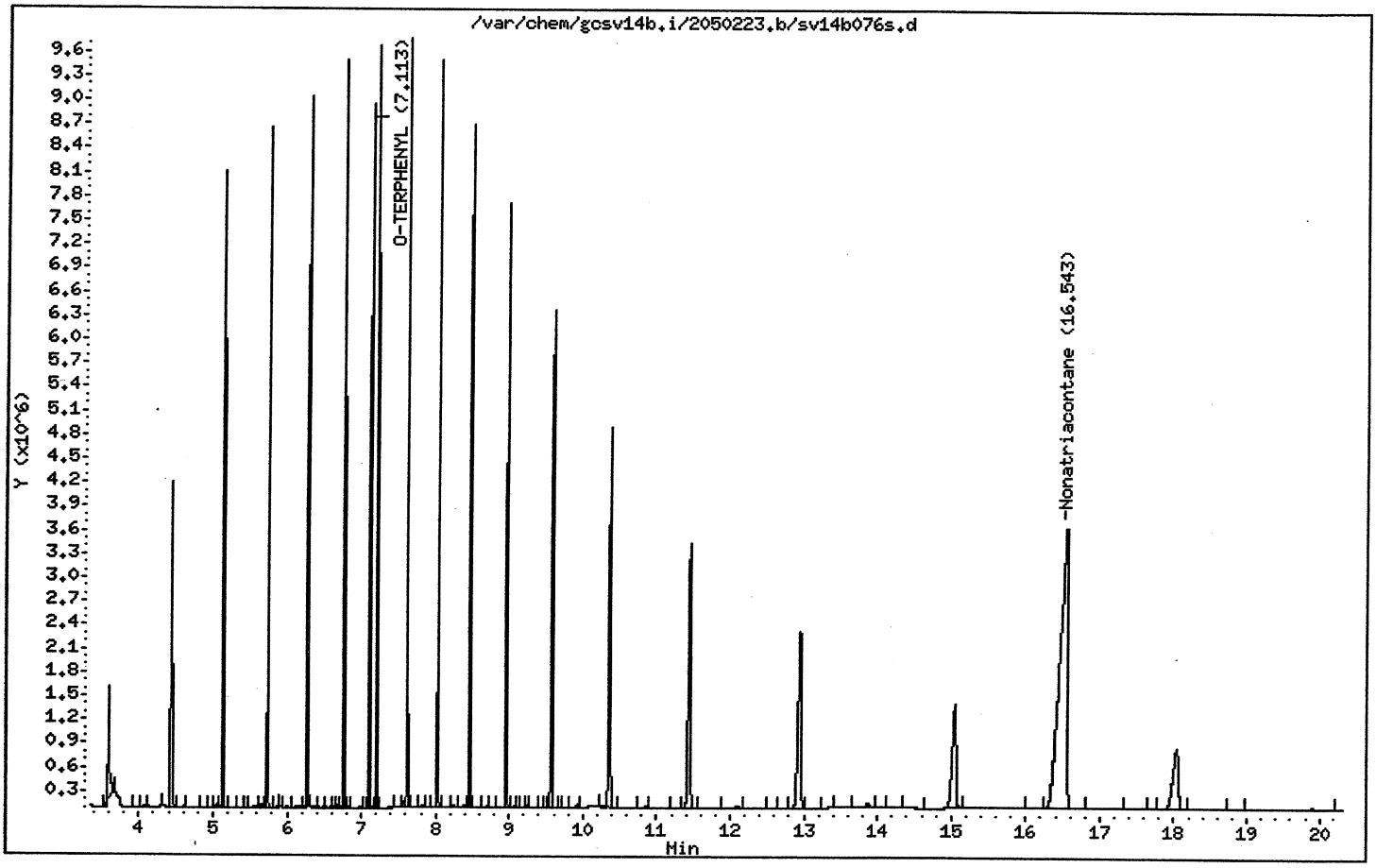
Sample Info: 20502180111-1

Volume Injected (uL): 1.0

Operator: dlb

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: 287723 Analytical Batch: 287991

Sample ID: 86-JETC-MSD-Q1-05
Contract:
SAS No.: SDG No.: 205021805
Lab Sample ID: 20502180112
Date Collected: 02/16/05 Time: 1140
Date Received: 02/18/05
Date Extracted: 02/18/05
Date Analyzed: 02/23/05 Time: 2200
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050223/SV14B077S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	1480		40.7	100

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b077.d
Lab Smp Id: 20502180112
Inj Date : 23-FEB-2005 22:00
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180112-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 77
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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

MSD

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	7.616	7.017	0.599	3165244958	973.842	1947.6844(M)

QC Flag Legend on column - surr = 2403762504 ✓

M - Compound response manually integrated.

$$\frac{3165244958 - 761482454}{3250265} \cdot \frac{2000}{1000} = 1479 \text{ ug/L}$$

87% rec.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b077s.d
Lab Smp Id: 20502180112
Inj Date : 23-FEB-2005 22:00
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20502180112-1
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 77
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.111	7.120	-0.009	159532182	54.7666	109.5331
$ 18 Nonatriacontane	16.557	16.698	-0.141	601950272	234.794	469.5880

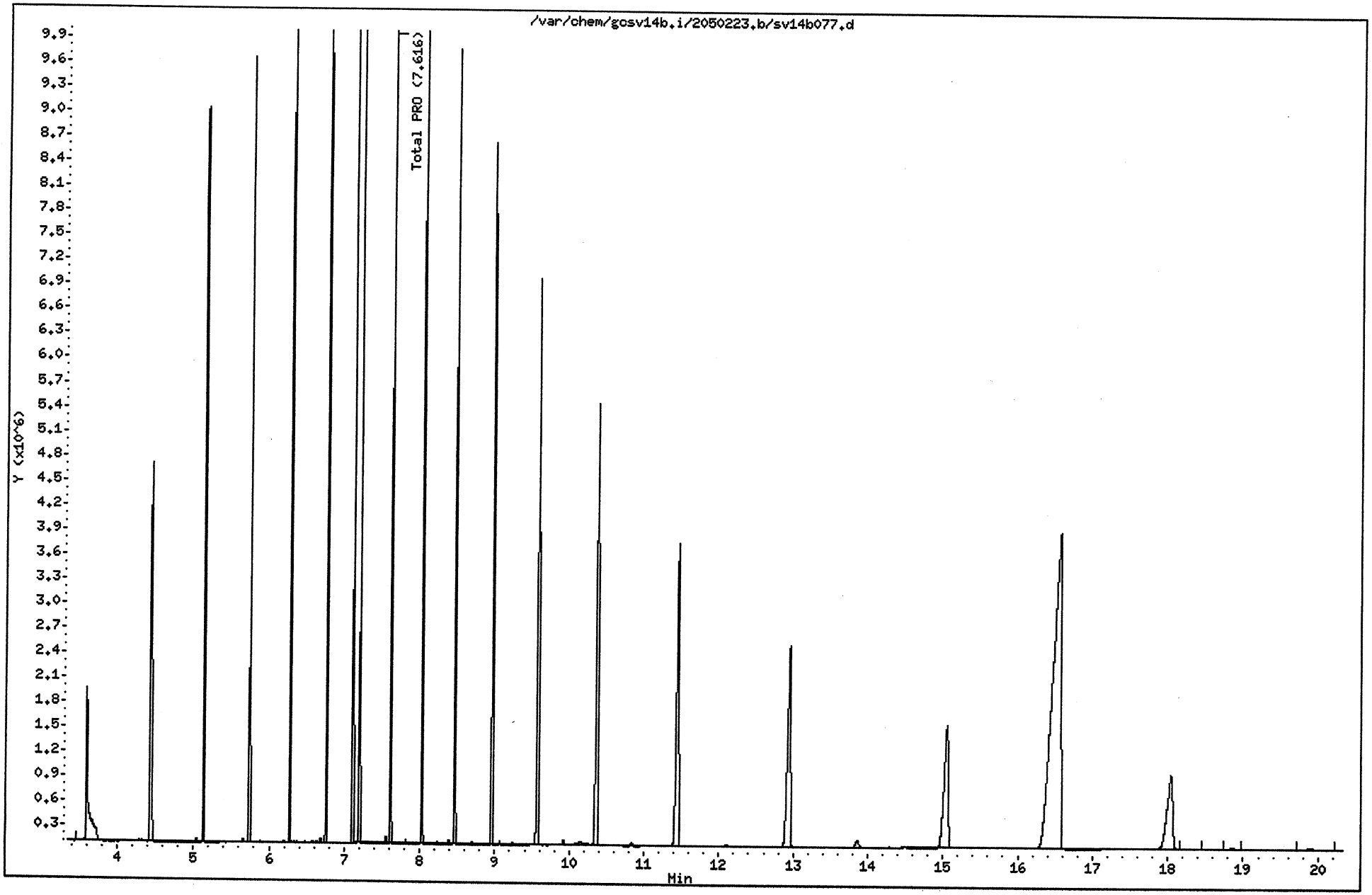
761482454

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b077.d
Date : 23-FEB-2005 22:00
Client ID:
Sample Info: 20502180112-1
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000467



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b077s.d

Date : 23-FEB-2005 22:00

Client ID:

Instrument: gcsv14b.i

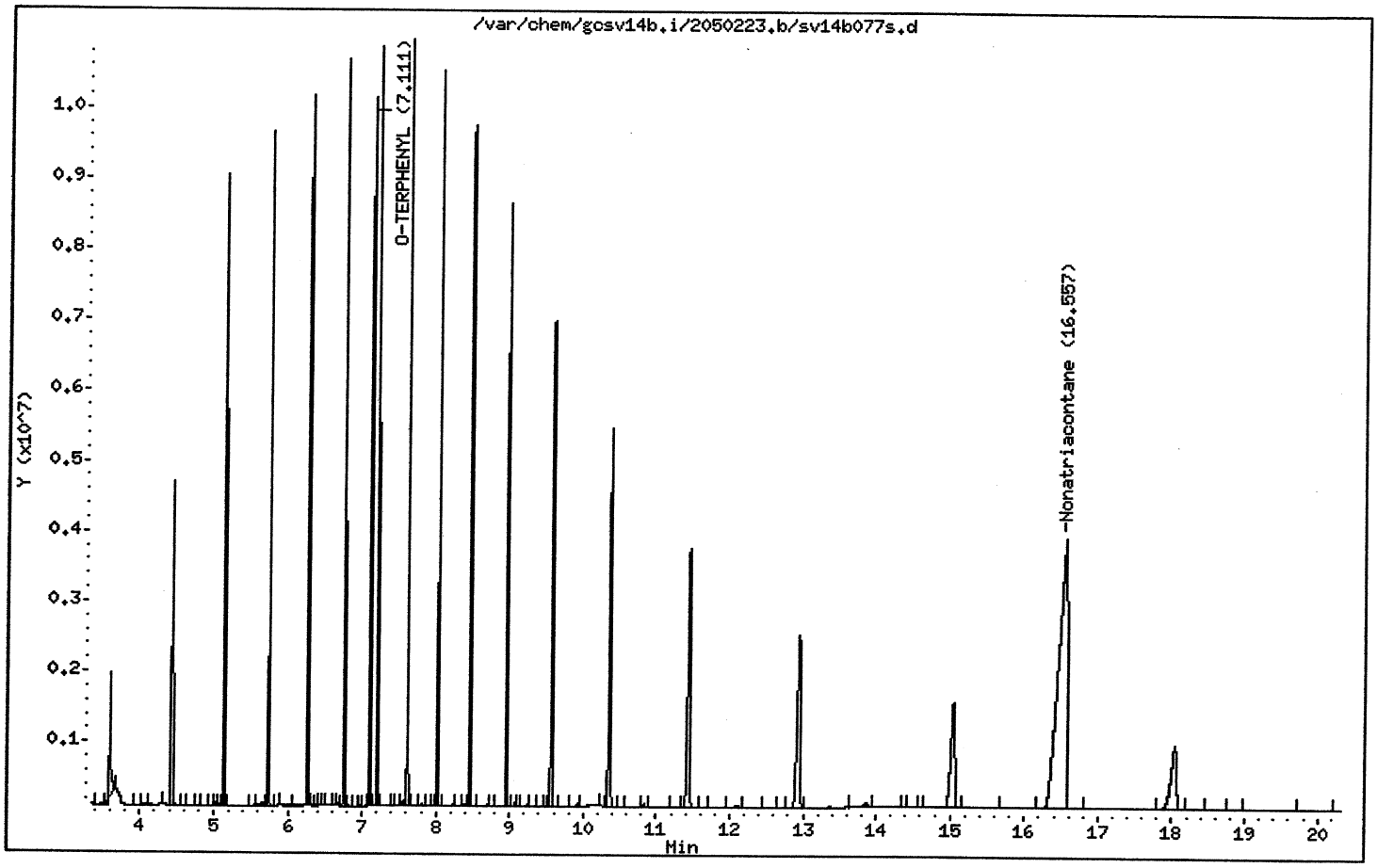
Sample Info: 20502180112-1

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

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: 287772 Analytical Batch: 287991

Sample ID: 05283SCS050217MS

Contract:

SAS No.: SDG No.: 205021805

Lab Sample ID: 224453

Date Collected: 02/17/05 Time: 1500

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/24/05 Time: 0328

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2050223/SV14B087S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	133000		5110	8180

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b087.d
Lab Smp Id: 224453
Inj Date : 24-FEB-2005 03:28
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224453-1-ms
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 87
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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

ms

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	7.611	7.017	0.594	5980286180	1839.94	147195.0618(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{5980286180 - 689447497}{3250265} \cdot \frac{2000}{25} = 130,225 \text{ ug/kg}$$

22% recov.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b087s.d
Lab Smp Id: 224453
Inj Date : 24-FEB-2005 03:28
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224453-1-ms
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 87
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.109	7.120	-0.011	140967710	48.3935	3871.4778
$ 18 Nonatriacontane	16.531	16.698	-0.167	548479787	213.938	17115.0053

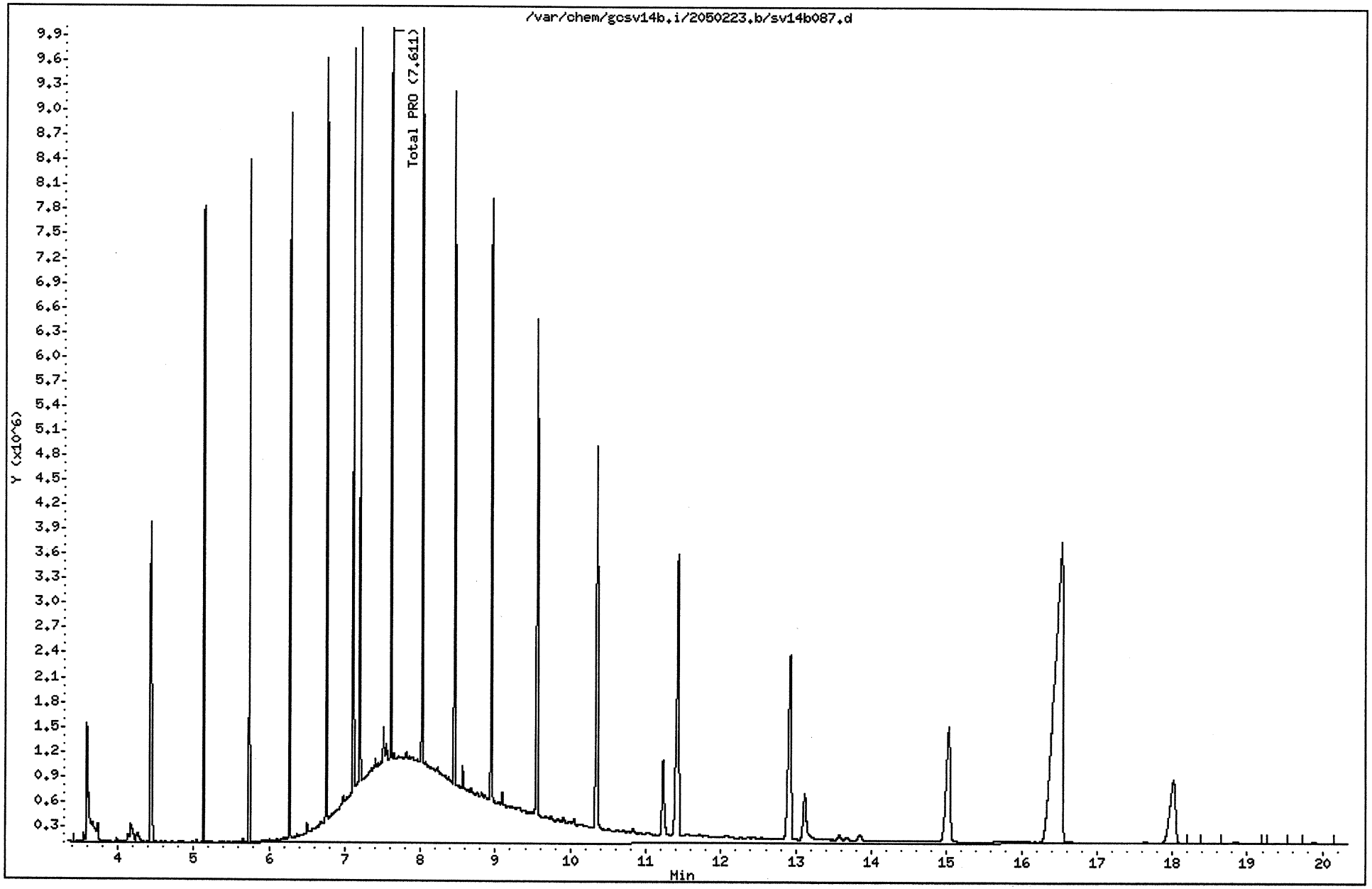
689447497

000472

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b087.d
Date : 24-FEB-2005 03:28
Client ID:
Sample Info: 224453-1-ms
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b087s.d

Date : 24-FEB-2005 03:28

Client ID:

Instrument: gcsv14b.i

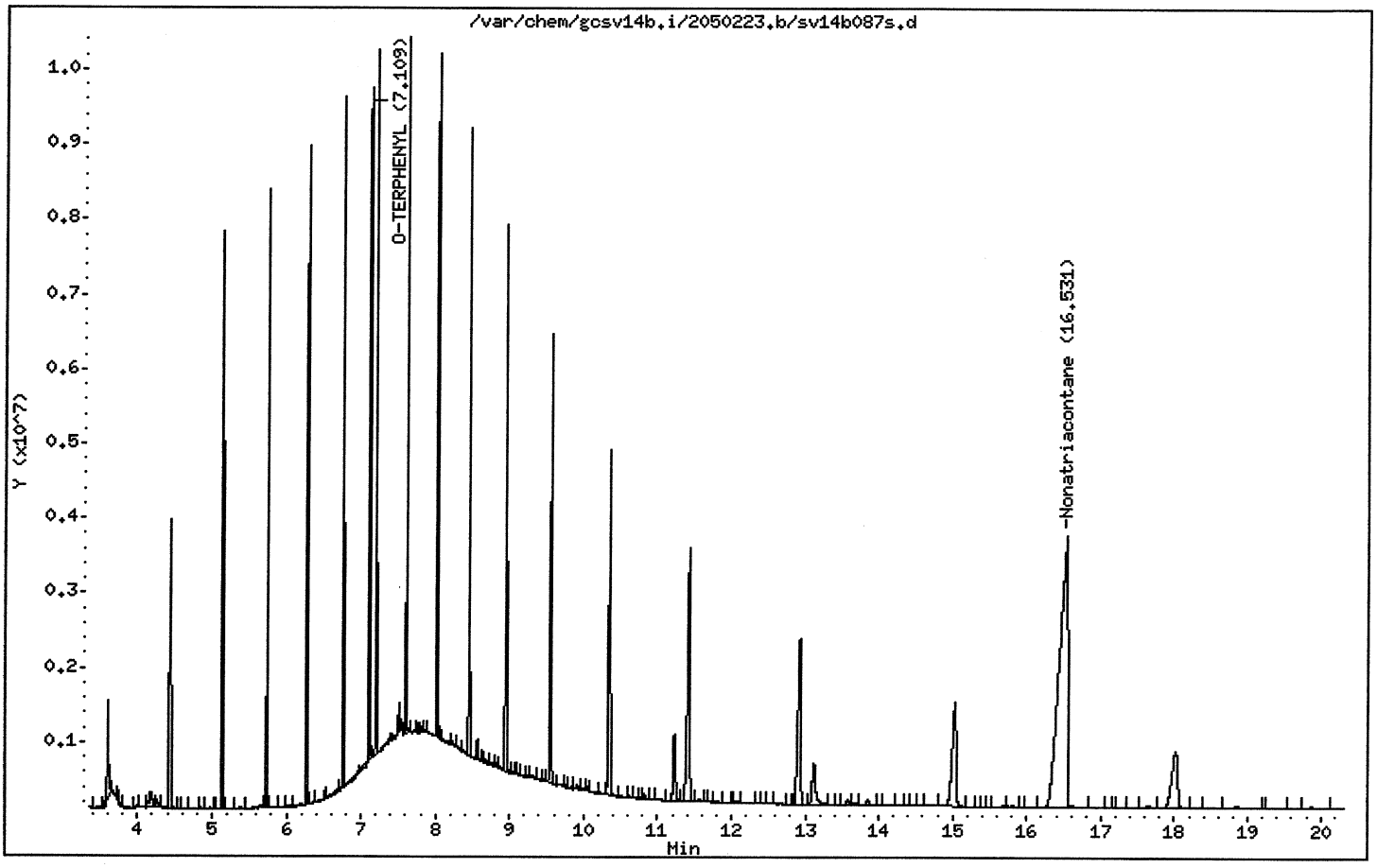
Sample Info: 224453-1-ms

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 05283SCS050217MSD
Lab Code: LA024 Case No.:
Contract:
Matrix: Soil
SAS No.: SDG No.: 205021805
Sample wt/vol: 25 Units: g
Lab Sample ID: 224454
Level: (low/med) LOW
Date Collected: 02/17/05 Time: 1500
% Moisture: decanted: (Y/N)
Date Received: 02/18/05
GC Column: ID: (mm)
Date Extracted: 02/22/05
Concentrated Extract Volume: 2000 (µL)
Date Analyzed: 02/24/05 Time: 0358
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method: FLORIDA PRO
GPC Cleanup: (Y/N) N pH:
Analytical Method: FLORIDA PRO
Prep Batch: 287772 Analytical Batch: 287991
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
CONCENTRATION UNITS: ug/kg
Lab File ID: 2050223/SV14B088S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	139000		5110	8180

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b088.d
Lab Smp Id: 224454
Inj Date : 24-FEB-2005 03:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224454-1-msd
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flpro.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060.d
Als bottle: 88
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.201	7.017	0.184	6150571021	1892.33	151386.3475(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{6150571021 - 645599418}{3250265} \cdot \frac{2000}{25} = 135,496 \text{ ug/kg}$$

30% rec.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2050223.b/sv14b088s.d
Lab Smp Id: 224454
Inj Date : 24-FEB-2005 03:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 224454-1-msd
Misc Info : GCSV~47XX~
Comment :
Method : /var/chem/gcsv14b.i/2050223.b/flsur.m
Meth Date : 24-Feb-2005 08:34 dlb Quant Type: ESTD
Cal Date : 23-FEB-2005 13:23 Cal File: sv14b060s.d
Als bottle: 88
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50

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	7.110	7.120	-0.010	137155635	47.0848	3766.7846
$ 18 Nonatriacontane	16.527	16.698	-0.171	508443783	198.321	15865.7042

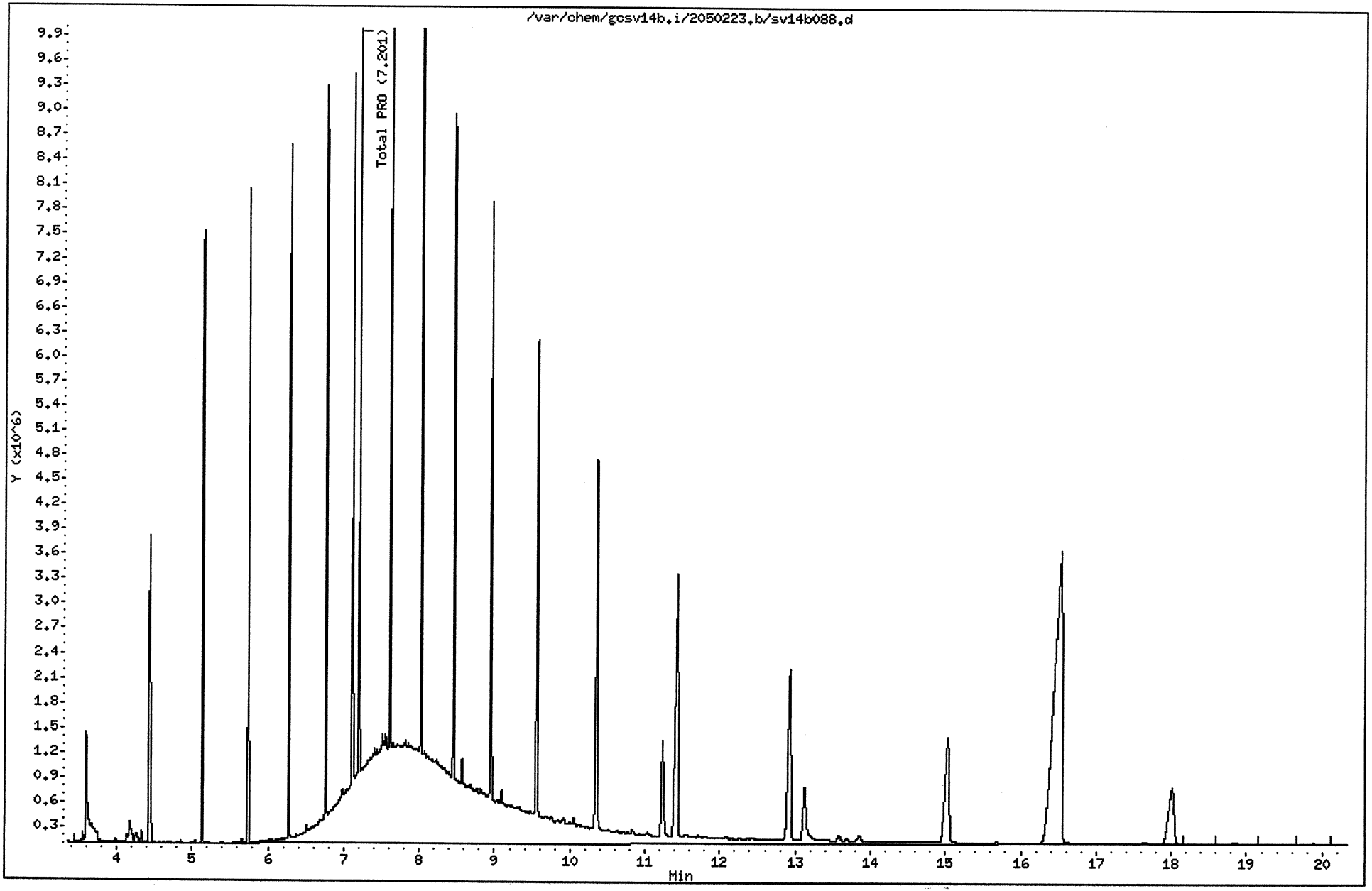
645599418

000477

Data File: /var/chem/gcsv14b.i/2050223.b/sv14b088.d
Date : 24-FEB-2005 03:58
Client ID:
Sample Info: 224454-1-msd
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53



Data File: /var/chem/gcsv14b.i/2050223.b/sv14b088s.d

Date : 24-FEB-2005 03:58

Client ID:

Instrument: gcsv14b.i

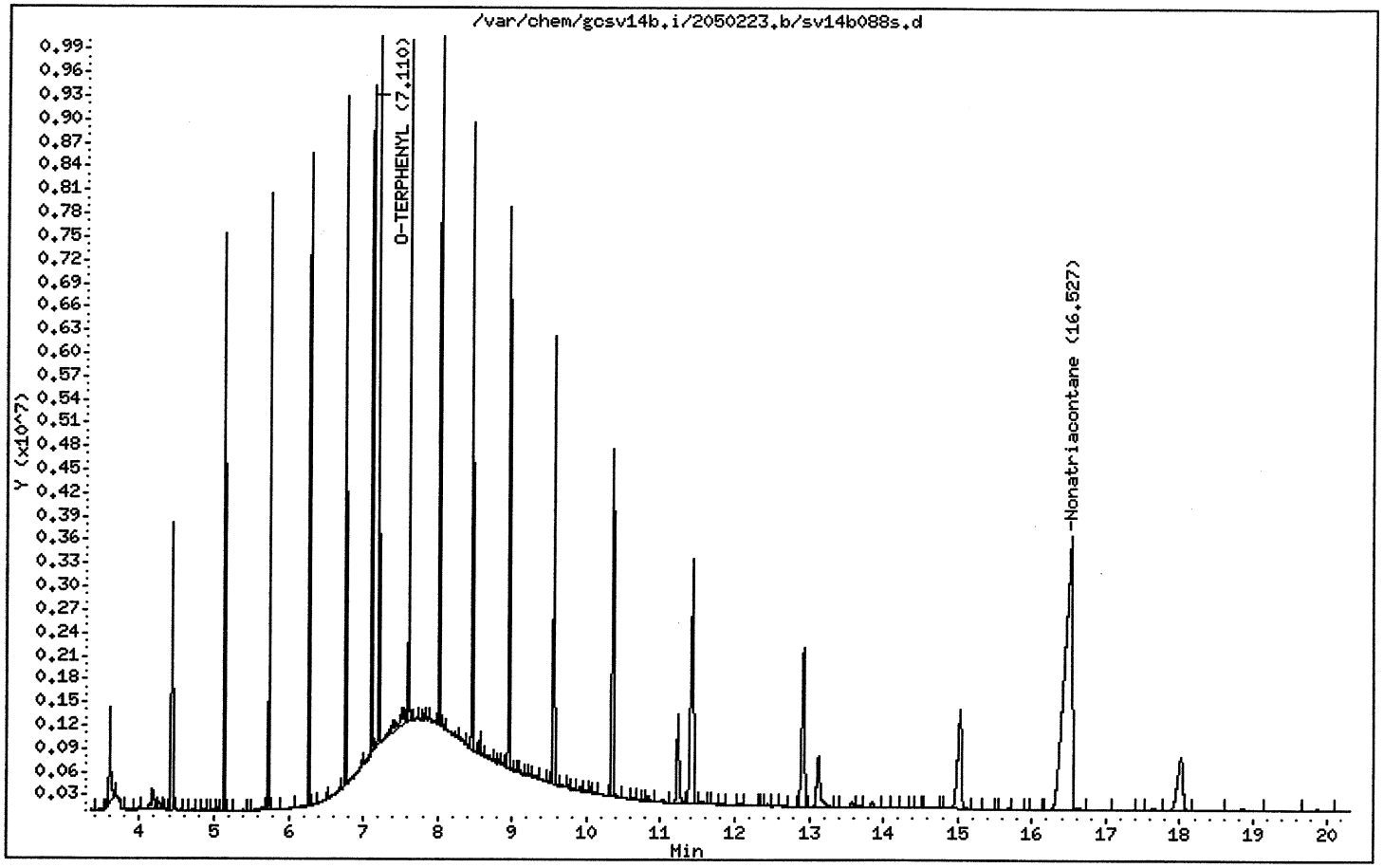
Sample Info: 224454-1-msd

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-18-05 1600	BATCH NO:	287723
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 287723 [EXTO/7091]	224271	1000	2.0	7		
2	QC ACCOUNT	LCS for HBN 287723 [EXTO/7091]	224272	1000	2.0	7		
3	QC ACCOUNT	LCSD for HBN 287723 [EXTO/7091	224273	1000	2.0	7		SEPARATORY FUNNEL/3510 ✓
4	4380	86-334-2SA-Q1-05	20502180101	1000	2.0	7		
5	4380	86-334-32S-Q1-05	20502180102	1000	2.0	7		
6	4380	86-334-33S-Q1-05	20502180103	1000	2.0	7		
7	4380	86-334-34S-Q1-05	20502180104	1000	2.0	7		SONICATOR/3550
8	4380	86-339-28S-Q1-05	20502180105	1000	2.0	7		
9	4380	86-339-29S-Q1-05	20502180106	1000	2.0	7		
10	4380	86-811-16SR-Q1-05	20502180107	1000	2.0	7		
11	4380	86-811-17S-Q1-05	20502180108	1000	2.0	7		SILICA GEL CLEANUP
12	4380	86-811-18S-Q1-05	20502180109	1000	2.0	7		65120 40619
13	4380	86-NG-24S-Q1-05	20502180110	1000	2.0	7		
14	4380	86-JETC-MS-Q1-05	20502180111	1000	2.0	7		
15	4380	86-JETC-MSD-Q1-05	20502180112	1000	2.0	7		
16	4380	86-JETC-DUP-Q1-05	20502180113	1000	2.0	7		
17	4380	86-JETC-EB-Q1-05	20502180114	1000	2.0	7		
18	4380	05283EB1W050217	20502180502	1000	2.0	7		
19	4380	05283EB2W050217	20502180503	1000	2.0	7		
20								
21								
22								
23								MeCL2 Lot No:
24				SKS 02/21/05				044236
25								
26								
27								Sodium Sulfate Lot No:
28								044031

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-11-6	FLPRO SPIKE ID	9-11-5			TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME	200ul			[illegible]	2-18-05
CONCENTRATION	100/200ng/ml	CONCENTRATION	500ng/ml			[illegible]	2-18-05
ACID						SUPERVISOR	DATE
SPIKE WITNESS	[illegible]					John Bailey	02/21/05

FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-22-05 1000	BATCH NO:	287772
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 287772 [EXTO/7096]	224450	25.0	2.0			
2	QC ACCOUNT	LCS for HBN 287772 [EXTO/7096]	224451	25.0	2.0			
3	QC ACCOUNT	LCSD for HBN 287772 [EXTO/7096	224452	25.0	2.0			SEPARATORY FUNNEL/3510
4	4380	05283SCS050217	20502180501	25.0	2.0			
5	QC ACCOUNT	05283SCS050217(224281MS)	224453	25.0	2.0			
6	QC ACCOUNT	05283SCS050217 (224281MSD)	224454	25.0	2.0			
7								SONICATOR/3550 ✓
8								
9								
10								
11								SILICA GEL CLEANUP
12								6512X40619
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No
24								045514
25								
26								
27								Sodium Sulfate Lot No:
28								044031

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-11-6	FLPRO SPIKE ID	9-17-4			TECHNICIAN	DATE
VOLUME	1.0 ml	VOLUME	200 ul				
CONCENTRATION	100/600 ng/ml	CONCENTRATION	500 ng/ml			Alex Polyanskiy	2-22-05
ACID						SUPERVISOR	DATE
SPIKE WITNESS	JPA					John Bailey	02/22/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/24/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050223.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050223.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
dcm		sv14b051.d	23-FEB-2005 08:51	1.000	dlb	
1201		sv14b052.d	23-FEB-2005 09:25	1.000	dlb	
1201		sv14b052s.d	23-FEB-2005 09:25	1.000	dlb	
1202		sv14b053.d	23-FEB-2005 09:56	1.000	dlb	
1202		sv14b053s.d	23-FEB-2005 09:56	1.000	dlb	
1203		sv14b054.d	23-FEB-2005 10:25	1.000	dlb	
1203		sv14b054s.d	23-FEB-2005 10:25	1.000	dlb	
1204		sv14b055.d	23-FEB-2005 10:55	1.000	dlb	
1204		sv14b055s.d	23-FEB-2005 10:55	1.000	dlb	
1205		sv14b056.d	23-FEB-2005 11:25	1.000	dlb	
1205		sv14b056s.d	23-FEB-2005 11:25	1.000	dlb	
1206		sv14b057.d	23-FEB-2005 11:54	1.000	dlb	
1206		sv14b057s.d	23-FEB-2005 11:54	1.000	dlb	
ICV		sv14b058.d	23-FEB-2005 12:24	1.000	dlb	
1205		sv14b059.d	23-FEB-2005 12:54	1.000	dlb	
1205		sv14b059s.d	23-FEB-2005 12:54	1.000	dlb	
1206		sv14b060.d	23-FEB-2005 13:23	1.000	dlb	
1206		sv14b060s.d	23-FEB-2005 13:23	1.000	dlb	
ICV1		sv14b061.d	23-FEB-2005 13:53	1.000	dlb	
224271		sv14b062.d	23-FEB-2005 14:34	1.000	dlb	
224271		sv14b062s.d	23-FEB-2005 14:34	1.000	dlb	
224272		sv14b063.d	23-FEB-2005 15:04	1.000	dlb	
224272		sv14b063s.d	23-FEB-2005 15:04	1.000	dlb	
224273		sv14b064.d	23-FEB-2005 15:34	1.000	dlb	
224273		sv14b064s.d	23-FEB-2005 15:34	1.000	dlb	
20502180101		sv14b065.d	23-FEB-2005 16:03	1.000	dlb	
20502180101		sv14b065s.d	23-FEB-2005 16:03	1.000	dlb	
20502180102		sv14b066.d	23-FEB-2005 16:33	1.000	dlb	
20502180102		sv14b066s.d	23-FEB-2005 16:33	1.000	dlb	
20502180103		sv14b067.d	23-FEB-2005 17:02	1.000	dlb	
20502180103		sv14b067s.d	23-FEB-2005 17:02	1.000	dlb	
20502180104		sv14b068.d	23-FEB-2005 17:32	1.000	dlb	
20502180104		sv14b068s.d	23-FEB-2005 17:32	1.000	dlb	
20502180105		sv14b069.d	23-FEB-2005 18:02	1.000	dlb	
20502180105		sv14b069s.d	23-FEB-2005 18:02	1.000	dlb	
20502180106		sv14b070.d	23-FEB-2005 18:31	1.000	dlb	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/24/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050223.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050223.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
20502180106		sv14b070s.d	23-FEB-2005 18:31	1.000	dlb	
20502180107		sv14b071.d	23-FEB-2005 19:01	1.000	dlb	
20502180107		sv14b071s.d	23-FEB-2005 19:01	1.000	dlb	
1400		sv14b072.d	23-FEB-2005 19:31	1.000	dlb	
1400		sv14b072s.d	23-FEB-2005 19:31	1.000	dlb	
20502180108		sv14b073.d	23-FEB-2005 20:01	1.000	dlb	
20502180108		sv14b073s.d	23-FEB-2005 20:01	1.000	dlb	
20502180109		sv14b074.d	23-FEB-2005 20:31	1.000	dlb	
20502180109		sv14b074s.d	23-FEB-2005 20:31	1.000	dlb	
20502180110		sv14b075.d	23-FEB-2005 21:00	1.000	dlb	
20502180110		sv14b075s.d	23-FEB-2005 21:00	1.000	dlb	
20502180111		sv14b076.d	23-FEB-2005 21:30	1.000	dlb	
20502180111		sv14b076s.d	23-FEB-2005 21:30	1.000	dlb	
20502180112		sv14b077.d	23-FEB-2005 22:00	1.000	dlb	
20502180112		sv14b077s.d	23-FEB-2005 22:00	1.000	dlb	
20502180113		sv14b078.d	23-FEB-2005 22:30	1.000	dlb	
20502180113		sv14b078s.d	23-FEB-2005 22:30	1.000	dlb	
20502180114		sv14b079.d	23-FEB-2005 23:00	1.000	dlb	
20502180114		sv14b079s.d	23-FEB-2005 23:00	1.000	dlb	
20502180502		sv14b080.d	23-FEB-2005 23:29	1.000	dlb	
20502180502		sv14b080s.d	23-FEB-2005 23:29	1.000	dlb	
20502180503		sv14b081.d	23-FEB-2005 23:59	1.000	dlb	
20502180503		sv14b081s.d	23-FEB-2005 23:59	1.000	dlb	
1400		sv14b082.d	24-FEB-2005 00:29	1.000	dlb	
1400		sv14b082s.d	24-FEB-2005 00:29	1.000	dlb	
224450		sv14b083.d	24-FEB-2005 01:29	1.000	dlb	
224450		sv14b083s.d	24-FEB-2005 01:29	1.000	dlb	
224451		sv14b084.d	24-FEB-2005 01:58	1.000	dlb	
224451		sv14b084s.d	24-FEB-2005 01:58	1.000	dlb	
224452		sv14b085.d	24-FEB-2005 02:28	1.000	dlb	
224452		sv14b085s.d	24-FEB-2005 02:28	1.000	dlb	
20502180501		sv14b086.d	24-FEB-2005 02:58	1.000	dlb	
20502180501		sv14b086s.d	24-FEB-2005 02:58	1.000	dlb	
224453		sv14b087.d	24-FEB-2005 03:28	1.000	dlb	
224453		sv14b087s.d	24-FEB-2005 03:28	1.000	dlb	
224454		sv14b088.d	24-FEB-2005 03:58	1.000	dlb	

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
8081 V	63-33-1	Pest Mix AB #2 8/10 ug/mL Pest Surr 2ug/mL	Restek in House	A0293645 exp 11/06 63-26-1 exp 7/10/05	625uL 2500uL	50mL	100/200ug/L 100ug/L	hexane 043187	SST	2/19/05	7/9/05
FLPRO 6	63-33-2	C-443-11 2000 ug/mL DRH FLSS-3X 3000 ug/mL 63-30-7 2000 ug/mL	NSI Accust in house	C-443-11 4/2006 B3050147 12/13/07 in hous 07/05	3 uL 100 uL 25 uL	1mL	~~3 uL~~ 6 ppm ~~100 uL~~ 300 ppm ~~25 uL~~ 50 ppm	DCM 040131 dlb 2/23/05	dlb	2/23/05	7/05
FLPRO 50	63-33-3				25 uL 100 uL 25 uL	1mL	50 ppm 300 ppm 50 ppm	DCM 040131	dlb	2/23/05	7/05
FLPRO 150	63-33-4				75 uL 100 uL 25 uL	1mL	150 ppm 300 ppm 50 ppm	DCM 040131	dlb	2/23/05	7/05
FLPRO 250	63-33-5				125 uL 100 uL 25 uL	1mL	250 ppm 300 ppm 50 ppm	DCM 040131	dlb	2/23/05	7/05
FLPRO 350	63-33-6				175 uL 100 uL 25 uL	1mL	350 ppm 300 ppm 50 ppm	DCM 040131	dlb	2/23/05	7/05
FLPRO 500	63-33-7				250 uL 100 uL 25 uL	1mL	500 ppm 300 ppm 50 ppm	DCM 040131	dlb	2/23/05	7/05
FLPRO ICV	63-33-8	DRH-FTRP11 500ug/mL	Accust	B3110221 12-13-07	100uL	1mL	50ppm	dcm 040131	dlb	2-23-05	08-22-05
Deg	63-33-9	M-8081-DS 0.2mg/mL	Accust	B3050261 exp 5/26/05	20uL	50mL	80ppb	hexane 043187	SST	2-23-05	05-25-05
PCBICV	63-33-10	9-12-5 (ext) 4ug/mL	in house	9-12-5 exp 6/12/05	1mL	10mL	400ppb	hexane 043187	SST	2-23-05	~~6~~ 2/23/05 6/11/05

000483

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/24/2005
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2050223.b/flpro.m
Batch: /var/chem/gcsv14b.i/2050223.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
224454		sv14b088s.d	24-FEB-2005 03:58	1.000	dlb	
224273		sv14b089.d	24-FEB-2005 04:27	1.000	dlb	
224273		sv14b089s.d	24-FEB-2005 04:27	1.000	dlb	
1400		sv14b090.d	24-FEB-2005 08:09	1.000	dlb	
1400		sv14b090s.d	24-FEB-2005 08:09	1.000	dlb	

REVISED 6-1-95 Supervisor Review: QA Review:

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180501	05283SCS050217	Solid	02/17/2005 15:00	02/18/2005 09:20

2540 G Total Moisture - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 14:32	LMC2	287740

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	Total Moisture	2.18	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 287740	**Client ID**	INITIAL VERIFICATION WEEKLY	223621DUP
Prep Batch N/A	**GCAL ID**	20502151601	224330
	Sample Type	SAMPLE	DUP
	Analytical Date	02/18/2005 14:32	02/18/2005 14:32
	Matrix	Solid	Solid

2540 G Total Moisture - Solid		**Units**	**%**	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
WET-037	Total Moisture	1.31	0.010	1.35	3	25

000486

TOTAL SOLIDS AND MOISTURE ANALYSIS (SOLID MATRIX)

HBN	287740	TM 287741	TS 287742	ANALYST:	LMC2						DATE:	2/18/2005
SOLI	4732	4733	4736	REVIEW:	CAE	2/23/05					TIME:	14:32:00
Sample ID	Pan ID	Pan Mass (g)	Initial Mass (g) (Sample & Pan)	Final Wt. 1 (g) (Sample & Pan)	Final Wt. 2 (g) (Sample & Pan)	Diff (g)	Final Wt. 3 (g) (Sample & Pan)	Diff (g)	Initial Mass Less Pan (g)	Final Mass Less Pan (g)	Total Solid %	Total Moisture %
20502151601	1	0.9690	10.9824	10.8578	10.8508	0.0070	NA	0.0000	10.0134	9.8818	98.69	1.31
224330 Dup	2	0.9688	11.1781	11.0556	11.0405	0.0151	NA	0.0000	10.2093	10.0717	98.65	1.35
20502180501	3	0.9683	10.3900	10.1876	10.1848	0.0028	NA	0.0000	9.4217	9.2165	97.82	2.18
20502180601	5	0.9678	11.2058	10.3936	10.3849	0.0087	NA	0.0000	10.2380	9.4171	91.98	8.02
20502180603	6	0.9715	11.2007	10.4929	10.4864	0.0065	NA	0.0000	10.2292	9.5149	93.02	6.98

TS − OG = TSm
98.69 − 0.063 = 98.627 20502151601
98.65 − 0.063 = 98.587 20502151601 Dup

TS % = ((Final Sample Mass - Initial Sample Mass) x 100) / Initial Sample Mass
TM % = 100-TS%

Method 2540G

0004887

CH2MH:11/4380/20502180 5/2-25-05

CH2M Hill 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
248799-062 (2 of 3)

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.S. Cecil Field	248799	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
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.):
Building 238 Drum and Stained Soil Removal	CTO 0005	802231	Russell Henderson CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT 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, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		3°

ANALYSES REQUIRED (Include Method)

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)	BTEX + MTBE by 5035/8260B	16 listed PAHs (including 1- and 2-Methylnaphthalene) by 8310	TRPH by FL-PRO	TOX by 9020; PCBs by 8082; TCL Pesticides by 8081A; 8 RCRA metals by 6010B/7470A ignitability by 1010	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	05283SCS050217	Soil Confirmation	S	02/17/05	15:00	C	14 Day	4	1	1		Grab		-1
2	05283EB1W050217	Pre-Equipment Rinsate Blank	W	02/17/05	14:40	C	14 Day	3	2	2		Grab		-2
3	05283EB2W050217	Post-Equipment Rinsate Blank	W	02/17/05	15:10	C	14 Day	3	2	2		Grab		-3
4	05283LOP050217	Drum with Lube Oil label	W	02/17/05	10:15	B	7 Day				2	Grab		-5 *
5	05283GCP050217	Grease Canister	S	02/17/05	10:00	B	7 Day				2	Grab		-4 *
6														
7														
8														
9														
10														

g	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Greg Ramey / Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	02/17/2005	18:00	Printed Name and Signature: FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754	02/17/2005	18:00
Printed Name and Signature: FedEx 790922916721	2-18-05	0920	Printed Name and Signature: Sam Marvatte	2-18-05	920

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

Form CCI001, Rev 02/00

000488

790922916802
790922916754
790922916743

* 5x's are in a seperate WO!

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	205021805	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	Former N.S. CECIL FIELD	**Status:**	WP
Project Seq:	27667	**Created:**	2/18/2005 11:57
Client:	4380 - CH2M Hill Constructors	**QA:**	
Profile:	67690 - CTO 5/R3 - Former N.S. CECIL FIELD	**PO:**	802231

WORKORDER SAMPLES

			pH PRESERVATIVE			VOA HEADSPACE			
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180501-1	OC	NONE			X			X	OK
20502180501-2	OC	NONE			X			X	OK
20502180501-3	OC	NONE			X			X	OK
20502180501-4	OC	NONE			X			X	OK
20502180501-5	4	NONE			X			X	OK
20502180501-6	4	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180502-1	40	HCL+STS			✓	✓			OK
20502180502-2	40	HCL+STS			✓	✓			OK
20502180502-3	LA	NONE			X			X	OK
20502180502-4	LA	NONE			X			X	OK
20502180502-5	LA	H2SO4	✓					X	OK
20502180502-6	LA	H2SO4	✓					X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180503-1	40	HCL+STS			✓	✓			OK
20502180503-2	40	HCL+STS			✓	✓			OK
20502180503-3	LA	NONE			X			X	OK
20502180503-4	LA	NONE			X			X	OK
20502180503-5	LA	H2SO4	✓					X	OK
20502180503-6	LA	H2SO4	✓					X	OK

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_____ CUSTODIAN LSN

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 01/04/2005

GCAL Report 204122902

Deliver To	CH2M HILL Constructors Inc. 115 Perimeter Center Place Suite 700 Atlanta, GA 30346 770-604-9182 Ext. 614
Attn	Melissa Osborne

Customer CH2M Hill Constructors

Project Former NAS Cecli Field

000001

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 204122902

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 285627, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

In the SW-8260B analysis for analytical batch 285580, the LCS/LCSD exhibited sporadic recovery and RPD failures.

In the SW-8260B ICV analysis on Instrument MSV3 on 12/30/04 at 17:04, several compounds exhibited recovery failures.

In the SW-8260B analysis of sample 20412290201 (001-NFF-BFC-S-1228-04), the detection limit of Chloroethane is elevated due to being analyzed as a medium soil. This compound was reported on a medium soil extract due to instrument calibration problems encountered during the low soil calibration.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis prep batch 285542, Atrazine (Aatrex) was recovered outside of the established control limits for the LCS/LCSD and MS/MSD.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the analysis of sample 20412290201 (001-NFF-BFC-S-1228-04), the closing CCV for FLPRO on 12/30/04, Instrument GCSV14B failed high, however, there were no target analytes present in the sample.

In the SW-846 8081A analysis for prep batch 285540, the MS/MSD exhibited RPD failures. Gamma-Chlordane was recovered outside of the established control limits for the LCSD and LCS/LCSD RPD.

METALS

In the SW-846 6010B analysis for prep batch 285543, the MS and MSD recoveries were outside the control limits for Calcium and Iron. The LCS recovery was within control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

A post-digestion spike was performed on the QC sample for this batch with a recovery of 80% for Calcium and 91% for Iron. The MS/MSD recoveries and RPD are not applicable for Aluminum because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Iron and Magnesium was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this. The Sample/Duplicate RPD for Manganese, Thallium, and Beryllium is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Chromium is flagged as estimated due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

The Sample/Duplicate RPD for Mercury for prep batch 285544 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

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 reporduced 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 204122902

THIS REPORT CONTAINS 790 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20412290201	001-NFF-BFC-S-1228-04	Solid	12/28/2004 16:10	12/29/2004 08:55
20412290202	001-TB-W-1228-04	Water	12/28/2004 00:00	12/29/2004 08:55

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	001-TB-W-1228-04	106		107		105		98		0
2.	LCSD215364	104		102		103		95		0
3.	LCS215363	103		104		104		95		0
4.	MB215362	104		106		107		98		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	73 - 125
SMC 3	Toluene-d8	78 - 127
SMC 4	1,2-Dichloroethane-d4	70 - 123

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	001-NFF-BFC-S-1228-04	89		106		108		93		0
2.	001-NFF-BFC-S-1228-04	96		104		98		105		0
3.	LCSD214625	98		106		106		106		0
4.	LCSD215155	92		105		103		99		0
5.	LCS214616	90		105		100		106		0
6.	LCS215154	90		100		105		97		0
7.	MB214615	92		114		101		113		0
8.	MB215153	90		108		107		103		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	61 - 125
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	62 - 139
SMC 4	1,2-Dichloroethane-d4	60 - 140

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.: 204122902

Analytical Batch: 285627

SAMPLE NO. : 215363

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	26.2	105		75 - 124
1,1,2,2-Tetrachloroethane	ug/L	25	0	23.6	94		58 - 130
1,1,2-Trichloroethane	ug/L	25	0	24.7	99		78 - 112
1,1-Dichloroethane	ug/L	25	0	25.9	104		74 - 125
1,1-Dichloroethene	ug/L	25	0	26.9	108		72 - 138
1,2,4-Trichlorobenzene	ug/L	25	0	29	116		51 - 141
1,2-Dibromo-3-chloropropane	ug/L	25	0	23.4	94		56 - 128
1,2-Dibromoethane	ug/L	25	0	24.8	99		77 - 113
1,2-Dichlorobenzene	ug/L	25	0	25.4	102		78 - 113
1,2-Dichloroethane	ug/L	25	0	24.5	98		74 - 128
1,2-Dichloropropane	ug/L	25	0	25.1	100		77 - 121
1,3-Dichlorobenzene	ug/L	25	0	25.8	103		74 - 119
1,4-Dichlorobenzene	ug/L	25	0	25.8	103		79 - 114
2-Butanone	ug/L	25	0	22.6	90		62 - 129
2-Hexanone	ug/L	25	0	29.4	118		53 - 135
4-Methyl-2-pentanone	ug/L	25	0	25.5	102		58 - 131
Acetone	ug/L	25	0	20.6	82		38 - 145
Benzene	ug/L	25	0	25.2	101		77 - 119
Bromodichloromethane	ug/L	25	0	23.4	94		75 - 113
Bromoform	ug/L	25	0	24.5	98		64 - 127
Bromomethane	ug/L	25	0	38.9	156		56 - 156
Carbon disulfide	ug/L	25	0	26.9	108		67 - 130
Carbon tetrachloride	ug/L	25	0	26.1	104		71 - 129
Chlorobenzene	ug/L	25	0	25.2	101		78 - 116
Chloroethane	ug/L	25	0	26.1	104		56 - 145
Chloroform	ug/L	25	0	25.2	101		67 - 122
Chloromethane	ug/L	25	0	24.1	96		60 - 139
Cyclohexane	ug/L	25	0	25.1	100		69 - 126
Dibromochloromethane	ug/L	25	0	24.8	99		76 - 113
Dichlorodifluoromethane	ug/L	25	0	26.8	107		60 - 120
Ethylbenzene	ug/L	25	0	25.1	100		76 - 118
Isopropylbenzene (Cumene)	ug/L	25	0	26.3	105		74 - 119
Methyl Acetate	ug/L	25	0	22.6	90		14 - 226
Methylcyclohexane	ug/L	25	0	25.2	101		71 - 127
Methylene chloride	ug/L	25	0	24.9	100		59 - 143

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 0 out of 96 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Analytical Batch: 285627

Styrene	ug/L	25	0	25.5	102		78 - 118
Tetrachloroethene	ug/L	25	0	27.1	108		74 - 122
Toluene	ug/L	25	0	25.8	103		78 - 114
Trichloroethene	ug/L	25	0	24.6	98		67 - 126
Trichlorofluoromethane	ug/L	25	0	26.4	106		53 - 144
Trichlorotrifluoroethane	ug/L	25	0	28.2	113		67 - 132
Vinyl chloride	ug/L	25	0	24.1	96		67 - 133
Xylene (total)	ug/L	75	0	76.9	103		77 - 119
cis-1,2-Dichloroethene	ug/L	25	0	25.3	101		76 - 123
cis-1,3-Dichloropropene	ug/L	25	0	24.6	98		74 - 121
tert-Butyl methyl ether (MTBE)	ug/L	25	0	25.2	101		61 - 135
trans-1,2-Dichloroethene	ug/L	25	0	26.1	104		72 - 130
trans-1,3-Dichloropropene	ug/L	25	0	24.4	98		77 - 114

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 0 out of 96 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Analytical Batch: 285627

SAMPLE NO. : 215364

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	25	26.4	106		.8		75 - 124	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	25	23.6	94		0		58 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	25	25	100		1		78 - 112	0 - 30
1,1-Dichloroethane	ug/L	25	26	104		.4		74 - 125	0 - 30
1,1-Dichloroethene	ug/L	25	28.1	112		4		72 - 138	0 - 14
1,2,4-Trichlorobenzene	ug/L	25	33.8	135		15		51 - 141	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	25	24.2	97		3		56 - 128	0 - 30
1,2-Dibromoethane	ug/L	25	25.3	101		2		77 - 113	0 - 30
1,2-Dichlorobenzene	ug/L	25	26.7	107		5		78 - 113	0 - 30
1,2-Dichloroethane	ug/L	25	24.7	99		.8		74 - 128	0 - 30
1,2-Dichloropropane	ug/L	25	25.7	103		2		77 - 121	0 - 30
1,3-Dichlorobenzene	ug/L	25	27.2	109		5		74 - 119	0 - 30
1,4-Dichlorobenzene	ug/L	25	26.4	106		2		79 - 114	0 - 30
2-Butanone	ug/L	25	24.7	99		9		62 - 129	0 - 30
2-Hexanone	ug/L	25	27.5	110		7		53 - 135	0 - 30
4-Methyl-2-pentanone	ug/L	25	25.4	102		.4		58 - 131	0 - 30
Acetone	ug/L	25	21.4	86		4		38 - 145	0 - 30
Benzene	ug/L	25	25.5	102		1		77 - 119	0 - 11
Bromodichloromethane	ug/L	25	24.3	97		4		75 - 113	0 - 30
Bromoform	ug/L	25	25.7	103		5		64 - 127	0 - 30
Bromomethane	ug/L	25	37.6	150		3		56 - 156	0 - 30
Carbon disulfide	ug/L	25	27	108		.4		67 - 130	0 - 30
Carbon tetrachloride	ug/L	25	26.6	106		2		71 - 129	0 - 30
Chlorobenzene	ug/L	25	25.8	103		2		78 - 116	0 - 13
Chloroethane	ug/L	25	26.5	106		2		56 - 145	0 - 30
Chloroform	ug/L	25	25.3	101		.4		67 - 122	0 - 30
Chloromethane	ug/L	25	24	96		.4		60 - 139	0 - 30
Cyclohexane	ug/L	25	25.3	101		.8		69 - 126	0 - 30
Dibromochloromethane	ug/L	25	25.4	102		2		76 - 113	0 - 30
Dichlorodifluoromethane	ug/L	25	27.2	109		1		60 - 120	0 - 30
Ethylbenzene	ug/L	25	26	104		4		76 - 118	0 - 30
Isopropylbenzene (Cumene)	ug/L	25	27.6	110		5		74 - 119	0 - 30
Methyl Acetate	ug/L	25	21.4	86		5		14 - 226	0 - 30
Methylcyclohexane	ug/L	25	26.4	106		5		71 - 127	0 - 30
Methylene chloride	ug/L	25	25.2	101		1		59 - 143	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 0 out of 96 outside limits

FORM III VOA-1

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Analytical Batch: 285627

Styrene	ug/L	25	26	104		2		78 - 118	0 - 30
Tetrachloroethene	ug/L	25	27.7	111		2		74 - 122	0 - 30
Toluene	ug/L	25	25.3	101		2		78 - 114	0 - 13
Trichloroethene	ug/L	25	25.3	101		3		67 - 126	0 - 14
Trichlorofluoromethane	ug/L	25	22.2	89		17		53 - 144	0 - 30
Trichlorotrifluoroethane	ug/L	25	28.1	112		.4		67 - 132	0 - 30
Vinyl chloride	ug/L	25	24.4	98		1		67 - 133	0 - 30
Xylene (total)	ug/L	75	79.4	106		3		77 - 119	0 - 30
cis-1,2-Dichloroethene	ug/L	25	25.4	102		.4		76 - 123	0 - 30
cis-1,3-Dichloropropene	ug/L	25	24.7	99		.4		74 - 121	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	25	25.3	101		.4		61 - 135	0 - 30
trans-1,2-Dichloroethene	ug/L	25	26.7	107		2		72 - 130	0 - 30
trans-1,3-Dichloropropene	ug/L	25	24.4	98		0		77 - 114	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 0 out of 96 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.: 204122902

Matrix Spike - EPA Sample No: DG-10

Analytical Batch: 285627

SAMPLE NO. : 215371

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	29.5	118		75 - 124
1,1,2,2-Tetrachloroethane	ug/L	25	0	26.7	107		58 - 130
1,1,2-Trichloroethane	ug/L	25	0	26	104		78 - 112
1,1-Dichloroethane	ug/L	25	0	23.8	95		74 - 125
1,1-Dichloroethene	ug/L	25	0	24.5	98		72 - 138
1,2-Dibromo-3-chloropropane	ug/L	25	0	25.9	104		56 - 128
1,2-Dibromoethane	ug/L	25	0	26.5	106		77 - 113
1,2-Dichlorobenzene	ug/L	25	0	26.5	106		78 - 113
1,2-Dichloroethane	ug/L	25	0	27.5	110		74 - 128
1,2-Dichloropropane	ug/L	25	0	25.4	102		77 - 121
1,4-Dichlorobenzene	ug/L	25	0	26.2	105		79 - 114
2-Butanone	ug/L	25	27.7	34.2	26	*	62 - 129
2-Hexanone	ug/L	25	2.18	26.2	96		53 - 135
4-Methyl-2-pentanone	ug/L	25	2.95	27.7	99		58 - 131
Acetone	ug/L	25	19.5	32.6	52		38 - 145
Benzene	ug/L	25	0	26.7	107		77 - 119
Bromodichloromethane	ug/L	25	0	25.4	102		75 - 113
Bromoform	ug/L	25	0	27.3	109		64 - 127
Bromomethane	ug/L	25	0	32.6	130		56 - 156
Carbon disulfide	ug/L	25	0	24.7	99		67 - 130
Carbon tetrachloride	ug/L	25	0	29.5	118		71 - 129
Chlorobenzene	ug/L	25	0	25.9	104		78 - 116
Chloroethane	ug/L	25	0	20.4	82		56 - 145
Chloroform	ug/L	25	0	28.5	114		67 - 122
Chloromethane	ug/L	25	0	24.4	98		60 - 139
Dibromochloromethane	ug/L	25	0	27	108		76 - 113
Ethylbenzene	ug/L	25	0	25.8	103		76 - 118
Methylene chloride	ug/L	25	1.99	24.4	90		59 - 143
Styrene	ug/L	25	0	26.2	105		78 - 118
Tetrachloroethene	ug/L	25	0	27.6	110		74 - 122
Toluene	ug/L	25	2.62	25.5	92		78 - 114
Trichloroethene	ug/L	25	0	26.1	104		67 - 126
Trichlorofluoromethane	ug/L	25	0	27.9	112		53 - 144
Vinyl chloride	ug/L	25	0	23.4	94		67 - 133
Xylene (total)	ug/L	75	0	78.8	105		77 - 119

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

* Values outside of QC limits

RPD : 0 out of 39 outside limits

Spike Recovery: 2 out of 78 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.: 204122902

Matrix Spike - EPA Sample No: DG-10

Analytical Batch: 285627

cis-1,2-Dichloroethene	ug/L	25	0	27.5	110		76 - 123
cis-1,3-Dichloropropene	ug/L	25	0	25.2	101		74 - 121
trans-1,2-Dichloroethene	ug/L	25	0	24.7	99		72 - 130
trans-1,3-Dichloropropene	ug/L	25	0	25	100		77 - 114

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

* Values outside of QC limits

RPD : 0 out of 39 outside limits

Spike Recovery: 2 out of 78 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.: 204122902

Matrix Spike - EPA Sample No: DG-10

Analytical Batch: 285627

SAMPLE NO. : 215372

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	25	26.9	108		9		75 - 124	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	25	25.6	102		4		58 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	25	25.4	102		2		78 - 112	0 - 30
1,1-Dichloroethane	ug/L	25	25.8	103		8		74 - 125	0 - 30
1,1-Dichloroethene	ug/L	25	27.6	110		12		72 - 138	0 - 14
1,2-Dibromo-3-chloropropane	ug/L	25	26.5	106		2		56 - 128	0 - 30
1,2-Dibromoethane	ug/L	25	26.3	105		.8		77 - 113	0 - 30
1,2-Dichlorobenzene	ug/L	25	25.3	101		5		78 - 113	0 - 30
1,2-Dichloroethane	ug/L	25	26.5	106		4		74 - 128	0 - 30
1,2-Dichloropropane	ug/L	25	26.1	104		3		77 - 121	0 - 30
1,4-Dichlorobenzene	ug/L	25	25.9	104		1		79 - 114	0 - 30
2-Butanone	ug/L	25	32.7	20	*	4		62 - 129	0 - 30
2-Hexanone	ug/L	25	31.1	116		17		53 - 135	0 - 30
4-Methyl-2-pentanone	ug/L	25	30.8	111		11		58 - 131	0 - 30
Acetone	ug/L	25	38.3	75		16		38 - 145	0 - 30
Benzene	ug/L	25	26.3	105		2		77 - 119	0 - 11
Bromodichloromethane	ug/L	25	25.9	104		2		75 - 113	0 - 30
Bromoform	ug/L	25	26.7	107		2		64 - 127	0 - 30
Bromomethane	ug/L	25	36.2	145		10		56 - 156	0 - 30
Carbon disulfide	ug/L	25	26.9	108		9		67 - 130	0 - 30
Carbon tetrachloride	ug/L	25	27.3	109		8		71 - 129	0 - 30
Chlorobenzene	ug/L	25	25.6	102		1		78 - 116	0 - 13
Chloroethane	ug/L	25	26.2	105		25		56 - 145	0 - 30
Chloroform	ug/L	25	27	108		5		67 - 122	0 - 30
Chloromethane	ug/L	25	24.5	98		.4		60 - 139	0 - 30
Dibromochloromethane	ug/L	25	25.9	104		4		76 - 113	0 - 30
Ethylbenzene	ug/L	25	25.4	102		2		76 - 118	0 - 30
Methylene chloride	ug/L	25	25.9	96		6		59 - 143	0 - 30
Styrene	ug/L	25	25.6	102		2		78 - 118	0 - 30
Tetrachloroethene	ug/L	25	27.1	108		2		74 - 122	0 - 30
Toluene	ug/L	25	25.9	93		2		78 - 114	0 - 13
Trichloroethene	ug/L	25	26.5	106		2		67 - 126	0 - 14
Trichlorofluoromethane	ug/L	25	27.8	111		.4		53 - 144	0 - 30
Vinyl chloride	ug/L	25	23.8	95		2		67 - 133	0 - 30
Xylene (total)	ug/L	75	77.7	104		1		77 - 119	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 39 outside limits

Spike Recovery: 2 out of 78 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.: 204122902

Matrix Spike - EPA Sample No: DG-10

Analytical Batch: 285627

cis-1,2-Dichloroethene	ug/L	25	25.9	104		6		76 - 123	0 - 30
cis-1,3-Dichloropropene	ug/L	25	24.8	99		2		74 - 121	0 - 30
trans-1,2-Dichloroethene	ug/L	25	26.6	106		7		72 - 130	0 - 30
trans-1,3-Dichloropropene	ug/L	25	25.3	101		1		77 - 114	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 39 outside limits

Spike Recovery: 2 out of 78 outside limits

FORM III VOA-1

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8260

Analytical Batch: 285454

SAMPLE NO : 214616

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Chloroethane	ug/kg	1250	0	1440	115		73 - 183

SAMPLE NO : 214625

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Chloroethane	ug/kg	1250	1400	112		3		73 - 183	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8260

Analytical Batch: 285580

SAMPLE NO : 215154

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/kg	25	0	24.4	98		71 - 135
1,1,2,2-Tetrachloroethane	ug/kg	25	0	26.8	107		74 - 148
1,1,2-Trichloroethane	ug/kg	25	0	22.5	90		77 - 141
1,1-Dichloroethane	ug/kg	25	0	28.1	112		61 - 133
1,1-Dichloroethene	ug/kg	25	0	31	124		70 - 131
1,2,4-Trichlorobenzene	ug/kg	25	0	32.8	131	*	40 - 129
1,2-Dibromo-3-chloropropane	ug/kg	25	0	30.5	122		71 - 144
1,2-Dibromoethane	ug/kg	25	0	23	92		75 - 143
1,2-Dichlorobenzene	ug/kg	25	0	28.6	114		73 - 129
1,2-Dichloroethane	ug/kg	25	0	25.2	101		59 - 134
1,2-Dichloropropane	ug/kg	25	0	23.9	96		83 - 123
1,3-Dichlorobenzene	ug/kg	25	0	28.1	112		75 - 131
1,4-Dichlorobenzene	ug/kg	25	0	29	116		69 - 136
2-Butanone	ug/kg	25	0	16.2	65		49 - 170
2-Hexanone	ug/kg	25	0	22.4	90		62 - 181
4-Methyl-2-pentanone	ug/kg	25	0	24.2	97		59 - 159
Acetone	ug/kg	25	0	23.8	95		58 - 165
Benzene	ug/kg	25	0	24.9	100		77 - 126
Bromodichloromethane	ug/kg	25	0	24.7	99		76 - 132
Bromoform	ug/kg	25	0	23.2	93		73 - 144
Bromomethane	ug/kg	25	0	33.5	134		74 - 166
Carbon disulfide	ug/kg	25	0	30.5	122		64 - 136
Carbon tetrachloride	ug/kg	25	0	23.9	96		68 - 138
Chlorobenzene	ug/kg	25	0	24.4	98		80 - 121
Chloroethane	ug/kg	25	0	28.9	116		73 - 183
Chloroform	ug/kg	25	0	18.1	72		72 - 136
Chloromethane	ug/kg	25	0	29.3	117		46 - 138
Cyclohexane	ug/kg	25	0	15.6	62	*	70 - 130
Dibromochloromethane	ug/kg	25	0	25.5	102		78 - 136
Dichlorodifluoromethane	ug/kg	25	0	25.2	101		63 - 135
Ethylbenzene	ug/kg	25	0	25.4	102		80 - 137
Isopropylbenzene (Cumene)	ug/kg	25	0	25.2	101		71 - 140
Methyl Acetate	ug/kg	25	0	27.7	111		70 - 130
Methylcyclohexane	ug/kg	25	0	26.7	107		70 - 130
Methylene chloride	ug/kg	25	0	27.5	110		61 - 145
Styrene	ug/kg	25	0	24.6	98		75 - 139

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

* Values outside of QC limits

RPD : 2 out of 48 outside limits

Spike Recovery: 2 out of 96 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8260

Analytical Batch: 285580

Tetrachloroethene	ug/kg	25	0	24.4	98		79 - 141
Toluene	ug/kg	25	0	25.7	103		76 - 124
Trichloroethene	ug/kg	25	0	25	100		70 - 124
Trichlorofluoromethane	ug/kg	25	0	30	120		69 - 138
Trichlorotrifluoroethane	ug/kg	25	0	29.8	119		70 - 130
Vinyl chloride	ug/kg	25	0	28	112		65 - 136
Xylene (total)	ug/kg	75	0	79.2	106		79 - 136
cis-1,2-Dichloroethene	ug/kg	25	0	18.8	75		68 - 136
cis-1,3-Dichloropropene	ug/kg	25	0	24.7	99		66 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	26.7	107		70 - 130
trans-1,2-Dichloroethene	ug/kg	25	0	28.8	115		66 - 134
trans-1,3-Dichloropropene	ug/kg	25	0	25.4	102		67 - 138

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

* Values outside of QC limits

RPD : 2 out of 48 outside limits

Spike Recovery: 2 out of 96 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8260

Analytical Batch: 285580

SAMPLE NO : ***215155***

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/kg	25	25.6	102		5		71 - 135	0 - 30
1,1,2,2-Tetrachloroethane	ug/kg	25	28.3	113		5		74 - 148	0 - 30
1,1,2-Trichloroethane	ug/kg	25	23.5	94		4		77 - 141	0 - 30
1,1-Dichloroethane	ug/kg	25	25	100		12		61 - 133	0 - 30
1,1-Dichloroethene	ug/kg	25	26.8	107		15		70 - 131	0 - 22
1,2,4-Trichlorobenzene	ug/kg	25	31.4	126		4		40 - 129	0 - 30
1,2-Dibromo-3-chloropropane	ug/kg	25	32.6	130		7		71 - 144	0 - 30
1,2-Dibromoethane	ug/kg	25	23.3	93		1		75 - 143	0 - 30
1,2-Dichlorobenzene	ug/kg	25	27.6	110		4		73 - 129	0 - 30
1,2-Dichloroethane	ug/kg	25	25.4	102		.8		59 - 134	0 - 30
1,2-Dichloropropane	ug/kg	25	23.9	96		0		83 - 123	0 - 30
1,3-Dichlorobenzene	ug/kg	25	26.5	106		6		75 - 131	0 - 30
1,4-Dichlorobenzene	ug/kg	25	27.6	110		5		69 - 136	0 - 30
2-Butanone	ug/kg	25	21.2	85		27		49 - 170	0 - 30
2-Hexanone	ug/kg	25	25.3	101		12		62 - 181	0 - 30
4-Methyl-2-pentanone	ug/kg	25	27.2	109		12		59 - 159	0 - 30
Acetone	ug/kg	25	25	100		5		58 - 165	0 - 30
Benzene	ug/kg	25	24.6	98		1		77 - 126	0 - 21
Bromodichloromethane	ug/kg	25	24.4	98		1		76 - 132	0 - 30
Bromoform	ug/kg	25	23.7	95		2		73 - 144	0 - 30
Bromomethane	ug/kg	25	30.1	120		11		74 - 166	0 - 30
Carbon disulfide	ug/kg	25	26.2	105		15		64 - 136	0 - 30
Carbon tetrachloride	ug/kg	25	25.2	101		5		68 - 138	0 - 30
Chlorobenzene	ug/kg	25	24.3	97		.4		80 - 121	0 - 21
Chloroethane	ug/kg	25	23.1	92		22		73 - 183	0 - 30
Chloroform	ug/kg	25	25.2	101		33	*	72 - 136	0 - 30
Chloromethane	ug/kg	25	25.9	104		12		46 - 138	0 - 30
Cyclohexane	ug/kg	25	23.8	95		42	*	70 - 130	0 - 30
Dibromochloromethane	ug/kg	25	25.7	103		.8		78 - 136	0 - 30
Dichlorodifluoromethane	ug/kg	25	24.6	98		2		63 - 135	0 - 30
Ethylbenzene	ug/kg	25	25	100		2		80 - 137	0 - 30
Isopropylbenzene (Cumene)	ug/kg	25	24.5	98		3		71 - 140	0 - 30
Methyl Acetate	ug/kg	25	25.7	103		7		70 - 130	0 - 30
Methylcyclohexane	ug/kg	25	25.8	103		3		70 - 130	0 - 30
Methylene chloride	ug/kg	25	24.4	98		12		61 - 145	0 - 30
Styrene	ug/kg	25	24.7	99		.4		75 - 139	0 - 30

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

* Values outside of QC limits

RPD : 2 out of 48 outside limits

Spike Recovery: 2 out of 96 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8260

Analytical Batch: 285580

Tetrachloroethene	ug/kg	25	23.7	95		3		79 - 141	0 - 30
Toluene	ug/kg	25	24.4	98		5		76 - 124	0 - 21
Trichloroethene	ug/kg	25	24.1	96		4		70 - 124	0 - 24
Trichlorofluoromethane	ug/kg	25	25.7	103		15		69 - 138	0 - 30
Trichlorotrifluoroethane	ug/kg	25	26	104		14		70 - 130	0 - 30
Vinyl chloride	ug/kg	25	25	100		11		65 - 136	0 - 30
Xylene (total)	ug/kg	75	77.1	103		3		79 - 136	0 - 30
cis-1,2-Dichloroethene	ug/kg	25	17.8	71		5		68 - 136	0 - 30
cis-1,3-Dichloropropene	ug/kg	25	24.5	98		.8		66 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	25	25.2	101		6		70 - 130	0 - 30
trans-1,2-Dichloroethene	ug/kg	25	26.1	104		10		66 - 134	0 - 30
trans-1,3-Dichloropropene	ug/kg	25	25.8	103		2		67 - 138	0 - 30

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

* Values outside of QC limits

RPD : 2 out of 48 outside limits

Spike Recovery: 2 out of 96 outside limits

FORM III VOA-2

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB214615

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041229/T8784

Lab Sample ID: 214615 Date Extracted:

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

Date Analyzed: 12/29/04 Time: 1105

Instrument ID: MSV0 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 285454

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS214616	214616	2041229/T8781	12/29/04	0959
2.	LCSD214625	214625	2041229/T8782	12/29/04	1021
3.	001-NFF-BFC-S-1228-04	20412290201	2041229/T8790	12/29/04	1349

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB215362

Lab Name: GCAL

Contract: -

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041230/S6941

Lab Sample ID: 215362 Date Extracted:

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

Date Analyzed: 12/30/04 Time: 1856

Instrument ID: MSV3 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 285627

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS215363	215363	2041230/S6937	12/30/04	1726
2.	LCSD215364	215364	2041230/S6938	12/30/04	1748
3.	001-TB-W-1228-04	20412290202	2041230/S6944	12/30/04	2002

FORM IV VOA

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB215153

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041231/T3265

Lab Sample ID: 215153 Date Extracted:

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

Date Analyzed: 12/31/04 Time: 1457

Instrument ID: MSV4 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 285580

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS215154	215154	2041231/T3262	12/31/04	1351
2.	LCSD215155	215155	2041231/T3263	12/31/04	1413
3.	001-NFF-BFC-S-1228-04	20412290201	2041231/T3266	12/31/04	1532

FORM IV VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041227/T8722

BFB Injection Date: 12/27/04

Instrument ID: MSV0

BFB Injection Time: 1207

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

Analytical Batch: 285487

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	33.02	(	)	
75	30.0 - 60.0% of mass 95	56.34	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.72	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	63.23	(	)	
175	5.0 - 9.0% of mass 174	4.67	(7.4	)	1
176	95.0 - 101.0% of mass 174	62.92	(99.52	)	1
177	5.0 - 9.0% of mass 176	4	(6.37	)	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.	V2STD002	1206	2041227/T8723	12/27/04	1245
2.	V2STD005	1201	2041227/T8724	12/27/04	1307
3.	V2STD020	1202	2041227/T8725	12/27/04	1329
4.	V2STD050	1203	2041227/T8726	12/27/04	1351
5.	V2STD100	1204	2041227/T8727	12/27/04	1414
6.	V2STD200	1205	2041227/T8728	12/27/04	1436
7.	V2ICV	1600	2041227/T8730	12/27/04	1521

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041229/T8779

BFB Injection Date: 12/29/04

Instrument ID: MSV0

BFB Injection Time: 0902

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

Analytical Batch: 285454

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	35.85	(	)	
75	30.0 - 60.0% of mass 95	57.8	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.47	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	62.6	(	)	
175	5.0 - 9.0% of mass 174	4.61	(7.37	)	1
176	95.0 - 101.0% of mass 174	60.33	(96.38	)	1
177	5.0 - 9.0% of mass 176	3.85	(6.39	)	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.	V0STD050	1400	2041229/T8780	12/29/04	0925
2.	LCS214616	214616	2041229/T8781	12/29/04	0959
3.	LCSD214625	214625	2041229/T8782	12/29/04	1021
4.	MB214615	214615	2041229/T8784	12/29/04	1105
5.	001-NFF-BFC-S-1228-04	20412290201	2041229/T8790	12/29/04	1349

FORM V VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041230/S6925B

BFB Injection Date: 12/30/04

Instrument ID: MSV3

BFB Injection Time: 1146

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

Analytical Batch: 285627

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	15.49	(	)	
75	30.0 - 60.0% of mass 95	47.58	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.01	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	90.42	(	)	
175	5.0 - 9.0% of mass 174	6.79	(7.51	)	1
176	95.0 - 101.0% of mass 174	86.73	(95.92	)	1
177	5.0 - 9.0% of mass 176	6.77	(7.81	)	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.	V3STD002	1206	2041230/S6926	12/30/04	1228
2.	V3STD005	1201	2041230/S6927	12/30/04	1250
3.	V3STD020	1202	2041230/S6928	12/30/04	1311
4.	V3STD0.200	1207	2041230/S6929	12/30/04	1333
5.	V3STD0.400	1208	2041230/S6930	12/30/04	1355
6.	V3STD050	1203	2041230/S6931	12/30/04	1417
7.	V3STD100	1204	2041230/S6932	12/30/04	1439
8.	V3STD200	1205	2041230/S6933	12/30/04	1501
9.	8260ICV	1600	2041230/S6936	12/30/04	1704
10.	LCS215363	215363	2041230/S6937	12/30/04	1726
11.	LCSD215364	215364	2041230/S6938	12/30/04	1748
12.	MB215362	215362	2041230/S6941	12/30/04	1856
13.	001-TB-W-1228-04	20412290202	2041230/S6944	12/30/04	2002

FORM V VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041231/T3253

BFB Injection Date: 12/31/04

Instrument ID: MSV4

BFB Injection Time: 0856

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

Analytical Batch: 285580

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	20.63	(	)	
75	30.0 - 60.0% of mass 95	49.51	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.7	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	54.92	(	)	
175	5.0 - 9.0% of mass 174	3.81	(6.95	)	1
176	95.0 - 101.0% of mass 174	52.27	(95.19	)	1
177	5.0 - 9.0% of mass 176	3.44	(6.59	)	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.	V4STD002	1206	2041231/T3254	12/31/04	1010
2.	V4STD005	1201	2041231/T3255	12/31/04	1032
3.	V4STD020	1202	2041231/T3256	12/31/04	1053
4.	V4STD050	1203	2041231/T3257	12/31/04	1115
5.	V4STD100	1204	2041231/T3258	12/31/04	1138
6.	V4STD200	1205	2041231/T3259	12/31/04	1200
7.	V4ICV	1600	2041231/T3261	12/31/04	1244
8.	LCS215154	215154	2041231/T3262	12/31/04	1351
9.	LCSD215155	215155	2041231/T3263	12/31/04	1413
10.	MB215153	215153	2041231/T3265	12/31/04	1457
11.	001-NFF-BFC-S-1228-04	20412290201	2041231/T3266	12/31/04	1532

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID (Standard): 2041229/T8780

Date Analyzed: 12/29/04

Instrument ID: MSV0

Time: 0925

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

Heated Purge: (Y/N) N

Analytical Batch: 285454

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	477893	8.574	345053	10.14	985860	6.366

EPA Sample		#		#		#		#		#		#
1 . LCS214616	491530		8.58		344331		10.14		976481		6.36	
2 . LCSD214625	462907		8.58		343196		10.14		972008		6.36	
3 . MB214615	469756		8.57		319772		10.14		896817		6.36	
4 . 001-NFF-BFC-S-1228-04	522349		8.58		388106		10.15		1012594		6.36	
5 . LCS1600	582935		8.57		467721		10.14		1258685		6.36	

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

FORM V III VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID (Standard): 2041230/S6931

Date Analyzed: 12/30/04

Instrument ID: MSV3

Time: 1417

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

Heated Purge: (Y/N) N

Analytical Batch: 285627

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	1443739	7.024	1505054	9.559	3301044	4.689

EPA Sample			#		#		#		#		#		#
1 .	LCS1600	1399500		7.02		1500332		9.55		3288136		4.69	
2 .	LCS215363	1437465		7.02		1529820		9.56		3383559		4.68	
3 .	LCSD215364	1427385		7.02		1558232		9.55		3367386		4.69	
4 .	MB215362	1305703		7.02		1387089		9.55		3000195		4.69	
5 .	001-TB-W-1228-04	1310926		7.02		1429417		9.55		3054956		4.69	

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID (Standard): 2041231/T3257

Date Analyzed: 12/31/04

Instrument ID: MSV4

Time: 1115

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

Heated Purge: (Y/N) Y

Analytical Batch: 285580

	IS 1 Area		IS 1 RT		IS 2 Area		IS 2 RT		IS 3 Area		IS 3 RT	
12 HOUR STD	204053		7.686		119173		9.576		530623		5.248	
EPA Sample		#		#		#		#		#		#
1. LCS1600	213870		7.69		114869		9.58		507980		5.25	
2. LCS215154	208796		7.69		109146		9.58		563071		5.25	
3. LCSD215155	204754		7.69		108319		9.58		545833		5.25	
4. MB215153	201158		7.69		105085		9.58		548581		5.26	
5. 001-NFF-BFC-S-1228-04	212700		7.69		106243		9.58		586771		5.25	

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.

001-NFF-BFC-S-1228-04

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5.15 (g/ml) g

Lab Sample ID: 20412290201

Level: (low/med) LOW

Lab File ID: 2041231/T3266

% Moisture: not dec. 11

Date Collected: 12/28/04 Time: 1610

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

Date Received: 12/29/04

Instrument ID: MSV4

Date Analyzed: 12/31/04 Time: 1532

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 285580

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	5.46	U	0.134	5.46
79-34-5	1,1,2,2-Tetrachloroethane	5.46	U	0.196	5.46
79-00-5	1,1,2-Trichloroethane	5.46	U	0.124	5.46
75-34-3	1,1-Dichloroethane	5.46	U	0.174	5.46
75-35-4	1,1-Dichloroethene	5.46	U	0.392	5.46
120-82-1	1,2,4-Trichlorobenzene	5.46	U	0.357	5.46
96-12-8	1,2-Dibromo-3-chloropropane	5.46	U	0.945	5.46
106-93-4	1,2-Dibromoethane	5.46	U	0.164	5.46
95-50-1	1,2-Dichlorobenzene	5.46	U	0.124	5.46
107-06-2	1,2-Dichloroethane	5.46	U	0.124	5.46
78-87-5	1,2-Dichloropropane	5.46	U	0.122	5.46
541-73-1	1,3-Dichlorobenzene	5.46	U	0.258	5.46
106-46-7	1,4-Dichlorobenzene	5.46	U	0.459	5.46
78-93-3	2-Butanone	5.46	U	0.341	5.46
591-78-6	2-Hexanone	5.46	U	0.901	5.46
108-10-1	4-Methyl-2-pentanone	5.46	U	0.189	5.46
67-64-1	Acetone	27.3	U	0.408	27.3
71-43-2	Benzene	5.46	U	0.114	5.46
75-27-4	Bromodichloromethane	5.46	U	0.147	5.46
75-25-2	Bromoform	5.46	U	0.184	5.46
74-83-9	Bromomethane	5.46	U	1.64	5.46
75-15-0	Carbon disulfide	5.46	U	0.119	5.46
56-23-5	Carbon tetrachloride	5.46	U	0.131	5.46
108-90-7	Chlorobenzene	5.46	U	0.180	5.46
67-66-3	Chloroform	5.46	U	0.154	5.46
74-87-3	Chloromethane	5.46	U	0.506	5.46
110-82-7	Cyclohexane	5.46	U	1.21	5.46
124-48-1	Dibromochloromethane	5.46	U	0.098	5.46
75-71-8	Dichlorodifluoromethane	5.46	U	0.397	5.46
10061-01-5	cis-1,3-Dichloropropene	5.46	U	0.126	5.46
10061-02-6	trans-1,3-Dichloropropene	5.46	U	0.154	5.46

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

001-NFF-BFC-S-1228-04

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5.15 (g/ml) g Lab Sample ID: 20412290201

Level: (low/med) LOW Lab File ID: 2041231/T3266

% Moisture: not dec. 11 Date Collected: 12/28/04 Time: 1610

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/29/04

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1532

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
100-41-4	Ethylbenzene	5.46	U	0.226	5.46
98-82-8	Isopropylbenzene (Cumene)	5.46	U	0.167	5.46
79-20-9	Methyl Acetate	5.46	U	1.67	5.46
108-87-2	Methylcyclohexane	5.46	U	0.404	5.46
75-09-2	Methylene chloride	10.9	U	0.523	10.9
100-42-5	Styrene	5.46	U	0.166	5.46
127-18-4	Tetrachloroethene	5.46	U	0.210	5.46
108-88-3	Toluene	5.46	U	0.600	5.46
79-01-6	Trichloroethene	5.46	U	0.193	5.46
75-69-4	Trichlorofluoromethane	5.46	U	0.275	5.46
76-13-1	Trichlorotrifluoroethane	5.46	U	0.205	5.46
75-01-4	Vinyl chloride	2.18	U	0.383	2.18
1330-20-7	Xylene (total)	10.9	U	0.624	10.9
156-59-2	cis-1,2-Dichloroethene	5.46	U	0.138	5.46
1634-04-4	tert-Butyl methyl ether (MTBE)	5.46	U	0.081	5.46
156-60-5	trans-1,2-Dichloroethene	5.46	U	0.179	5.46

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3266.d
Lab Smp Id: 20412290201 Client Smp ID: 001-NFF-BFC-S-1228-
Inj Date : 31-DEC-2004 15:32
Operator : MEF Inst ID: msv4.i
Smp Info : 20412290201*001-NFF-BFC-S-1228-04
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:48 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.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/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)
Ws	5.15000	Weight of sample extracted (g)

Cpnd Variable Local Compound Variable

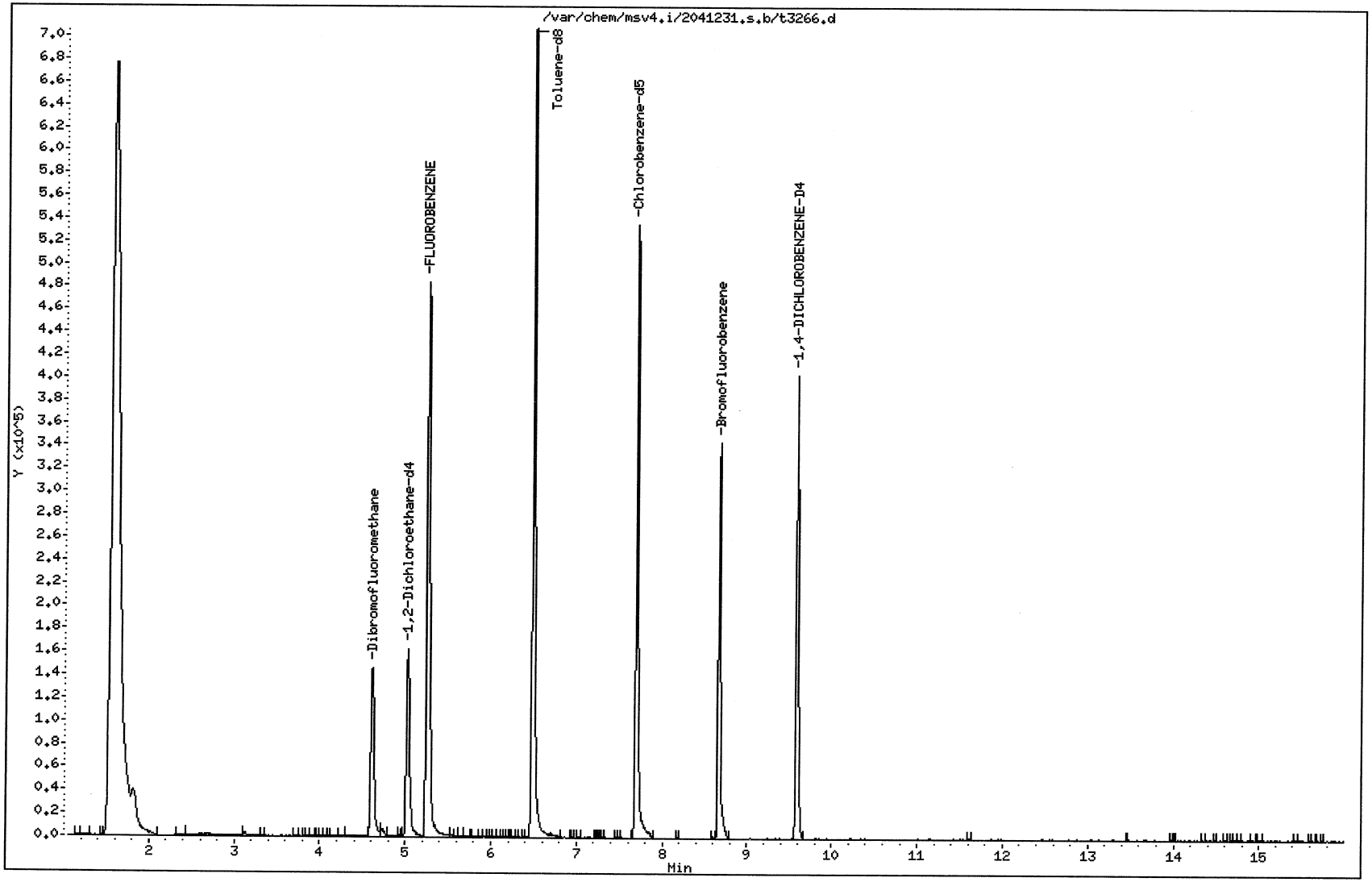
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
$ 36 Dibromofluoromethane	111	4.610	4.592	(0.877)	142269	53.0790	51.5	7543
$ 43 1,2-Dichloroethane-d4	67	5.026	5.007	(0.956)	79291	46.4977	45.1	9597
* 47 FLUOROBENZENE	96	5.254	5.242	(1.000)	586771	50.0000		9675
$ 59 Toluene-d8	98	6.488	6.476	(0.844)	548597	54.2082	52.6	9851
* 77 Chlorobenzene-d5	82	7.692	7.686	(1.000)	212700	50.0000		7598
$ 89 Bromofluorobenzene	174	8.667	8.661	(1.127)	85587	44.7353	43.4	9144
* 105 1,4-DICHLOROBENZENE-D4	152	9.582	9.582	(1.000)	106243	50.0000		6122

Data File: /var/chem/msv4.i/2041231.s.b/t3266.d
Date : 31-DEC-2004 15:32
Client ID: 001-NFF-BFC-S-1228-
Sample Info: 20412290201*001-NFF-BFC-S-1228-04

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

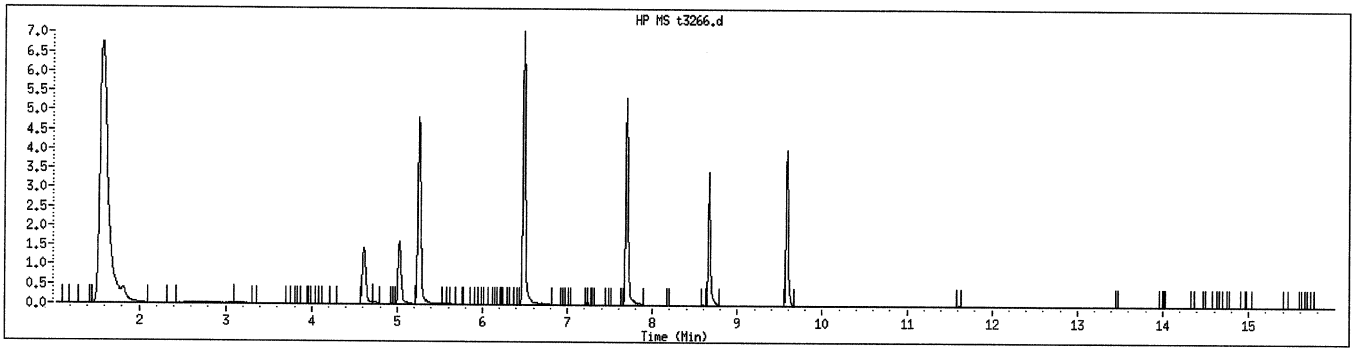


000034

Data file : /var/chem/msv4.i/2041231.s.b/t3266.d
Report Date: 01/04/2005 08:48

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412290201	SampleType	: SAMPLE
Injection Date	: 31-DEC-2004 15:32	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 20412290201*001-NFF-BFC-S-1228-04		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

001-NFF-BFC-S-1228-04

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5.27 (g/ml) g Lab Sample ID: 20412290201

Level: (low/med) LOW Lab File ID: 2041229/T8790

% Moisture: not dec. 11 Date Collected: 12/28/04 Time: 1610

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/29/04

Instrument ID: MSV0 Date Analyzed: 12/29/04 Time: 1349

Soil Extract Volume: (µL) Dilution Factor: 50 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285454

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	267	U	32.3	267

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8790.d
Lab Smp Id: 20412290201 Client Smp ID: 001-NFF-BFC-S-1228-
Inj Date : 29-DEC-2004 13:49
Operator : KCB Inst ID: msv0.i
Smp Info : 20412290201*001-NFF-BFC-S-1228-04
Misc Info : MSV~5636~*50*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/8260Bw0.m
Meth Date : 11-Jan-2005 11:01 rsp Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 13
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: Chloroe+LCS.sub
Target Version: 3.50
Processing Host: hpcs2

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

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	ng unit correction factor
Ws	5.27000	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

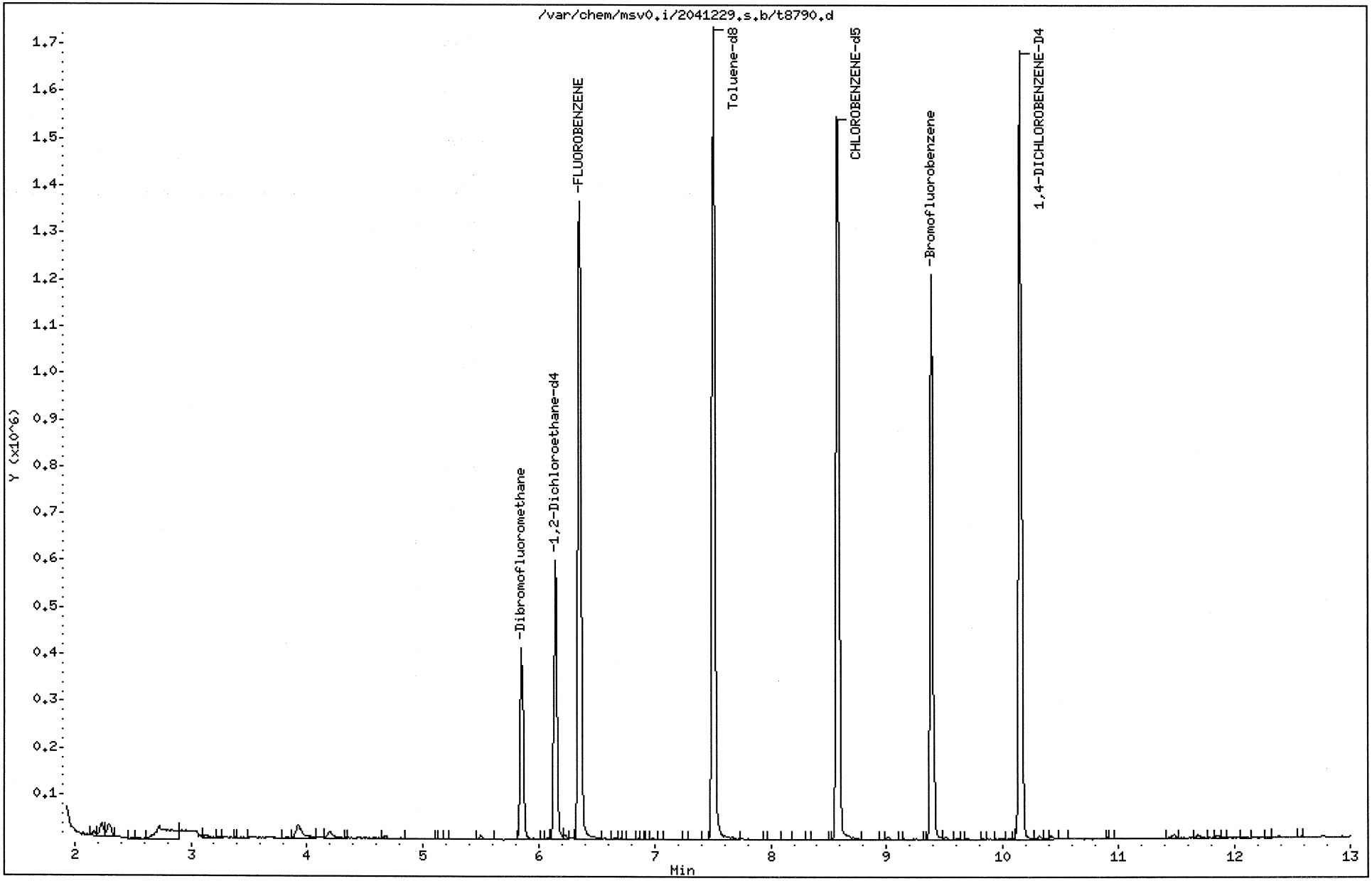
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
$ 36 Dibromofluoromethane	111	5.853	5.864	(0.921)	248573	52.0950	2470	488
$ 43 1,2-Dichloroethane-d4	67	6.143	6.154	(0.967)	201500	52.7532	2500	
* 47 FLUOROBENZENE	96	6.355	6.366	(1.000)	1012594	50.0000		
$ 60 Toluene-d8	98	7.505	7.510	(0.875)	962512	49.1021	2330	
* 71 CHLOROBENZENE-d5	82	8.576	8.574	(1.000)	522349	50.0000		
$ 80 Bromofluorobenzene	174	9.389	9.380	(1.095)	273037	48.0709	2280	
* 97 1,4-DICHLOROBENZENE-D4	152	10.149	10.140	(1.000)	388106	50.0000		

Data File: /var/chem/msv0.i/2041229.s.b/t8790.d
Date : 29-DEC-2004 13:49
Client ID: 001-NFF-BFC-S-1228-
Sample Info: 20412290201*001-NFF-BFC-S-1228-04
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

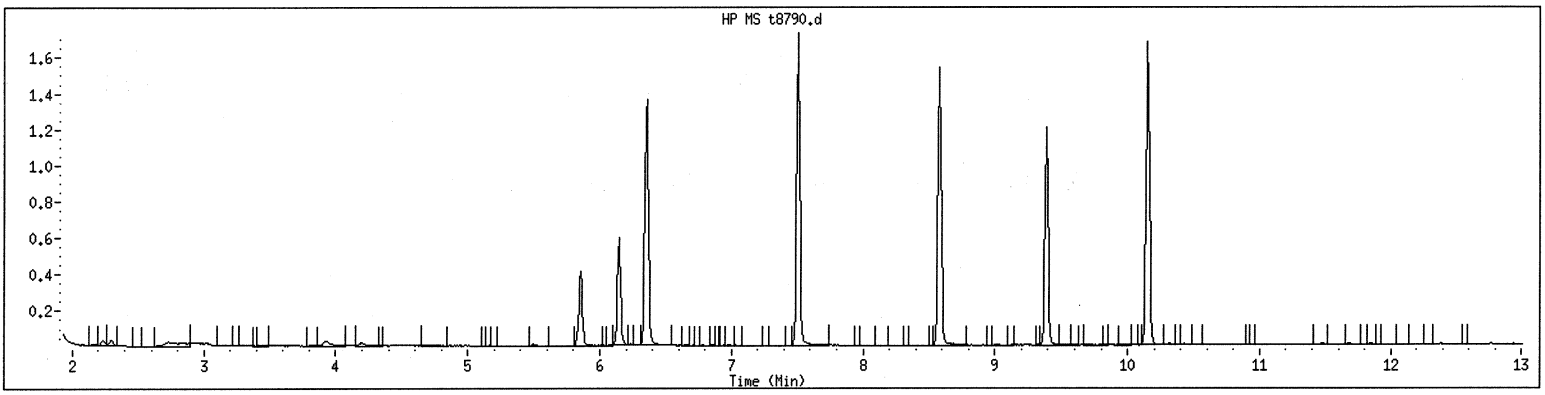
Operator: KCB
Column diameter: 0.53

000038



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412290201	SampleType	: SAMPLE
Injection Date	: 29-DEC-2004 13:49	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 20412290201*001-NFF-BFC-S-1228-04		
Misc Info	: MSV~5636~*50*KCB		
Method	: /var/chem/msv0.i/2041229.s.b/8260Bw0.m		
Dilution	: 50.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: Chloroe+LCS



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

001-TB-W-1228-04

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20412290202

Level: (low/med) LOW Lab File ID: 2041230/S6944

% Moisture: not dec. Date Collected: 12/28/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/29/04

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 2002

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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	0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.851	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.822	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.200	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.531	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.821	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.200	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.686	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.471	5.00
78-93-3	2-Butanone	1.85	J	0.817	10.0
591-78-6	2-Hexanone	10.0	U	0.833	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.820	10.0
67-64-1	Acetone	2.63	J	0.932	10.0
71-43-2	Benzene	1.00	U	0.836	1.00
75-27-4	Bromodichloromethane	0.600	U	0.600	0.600
75-25-2	Bromoform	4.00	U	0.742	4.00
74-83-9	Bromomethane	5.00	U	0.962	5.00
75-15-0	Carbon disulfide	5.00	U	0.764	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.848	3.00
108-90-7	Chlorobenzene	5.00	U	0.713	5.00
75-00-3	Chloroethane	5.00	U	0.820	5.00
67-66-3	Chloroform	5.00	U	0.919	5.00
74-87-3	Chloromethane	2.70	U	0.823	2.70
110-82-7	Cyclohexane	5.00	U	1.00	5.00
124-48-1	Dibromochloromethane	0.400	U	0.400	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.757	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

001-TB-W-1228-04

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20412290202

Level: (low/med) LOW Lab File ID: 2041230/S6944

% Moisture: not dec. Date Collected: 12/28/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 12/29/04

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 2002

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.633	5.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	0.800	U	0.558	0.800
79-20-9	Methyl Acetate	5.00	U	1.00	5.00
108-87-2	Methylcyclohexane	5.00	U	1.00	5.00
75-09-2	Methylene chloride	2.96	J	0.748	5.00
100-42-5	Styrene	5.00	U	0.699	5.00
127-18-4	Tetrachloroethene	3.00	U	0.692	3.00
108-88-3	Toluene	5.00	U	0.678	5.00
79-01-6	Trichloroethene	3.00	U	0.989	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.926	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.480	5.00
75-01-4	Vinyl chloride	1.00	U	1.00	1.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.735	5.00

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6944.d
Lab Smp Id: 20412290202 Client Smp ID: 001-TB-W-1228-04
Inj Date : 30-DEC-2004 20:02
Operator : RJO Inst ID: msv3.i
Smp Info : 20412290202*001-TB-W-1228-04
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 06:41 rfs Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
12 Acetone	43	2.822	2.811	(0.602)	11563	2.62919	2.63	(a)
18 Methylene Chloride	49	3.091	3.080	(0.659)	37697	2.96442	2.96	7265(a)
32 2-Butanone	43	3.933	3.921	(0.839)	17360	1.84597	1.85	(a)
$ 39 Dibromofluoromethane	111	4.219	4.219	(0.900)	977467	53.4054	53.4	9250
$ 45 1,2-Dichloroethane-d4	67	4.454	4.453	(0.950)	456175	49.2446	49.2	8649
* 48 FLUOROBENZENE	96	4.688	4.688	(1.000)	3054956	50.0000		8853
$ 61 Toluene-d8	98	5.793	5.798	(1.236)	3111206	52.3902	52.4	9061
* 71 CHLOROBENZENE-d5	82	7.023	7.023	(1.000)	1310926	50.0000		5537
$ 82 Bromofluorobenzene	174	8.197	8.196	(1.167)	1215406	52.8396	52.8	8334
* 97 1,4-DICHLOROBENZENE-D4	152	9.553	9.558	(1.000)	1429417	50.0000		4421

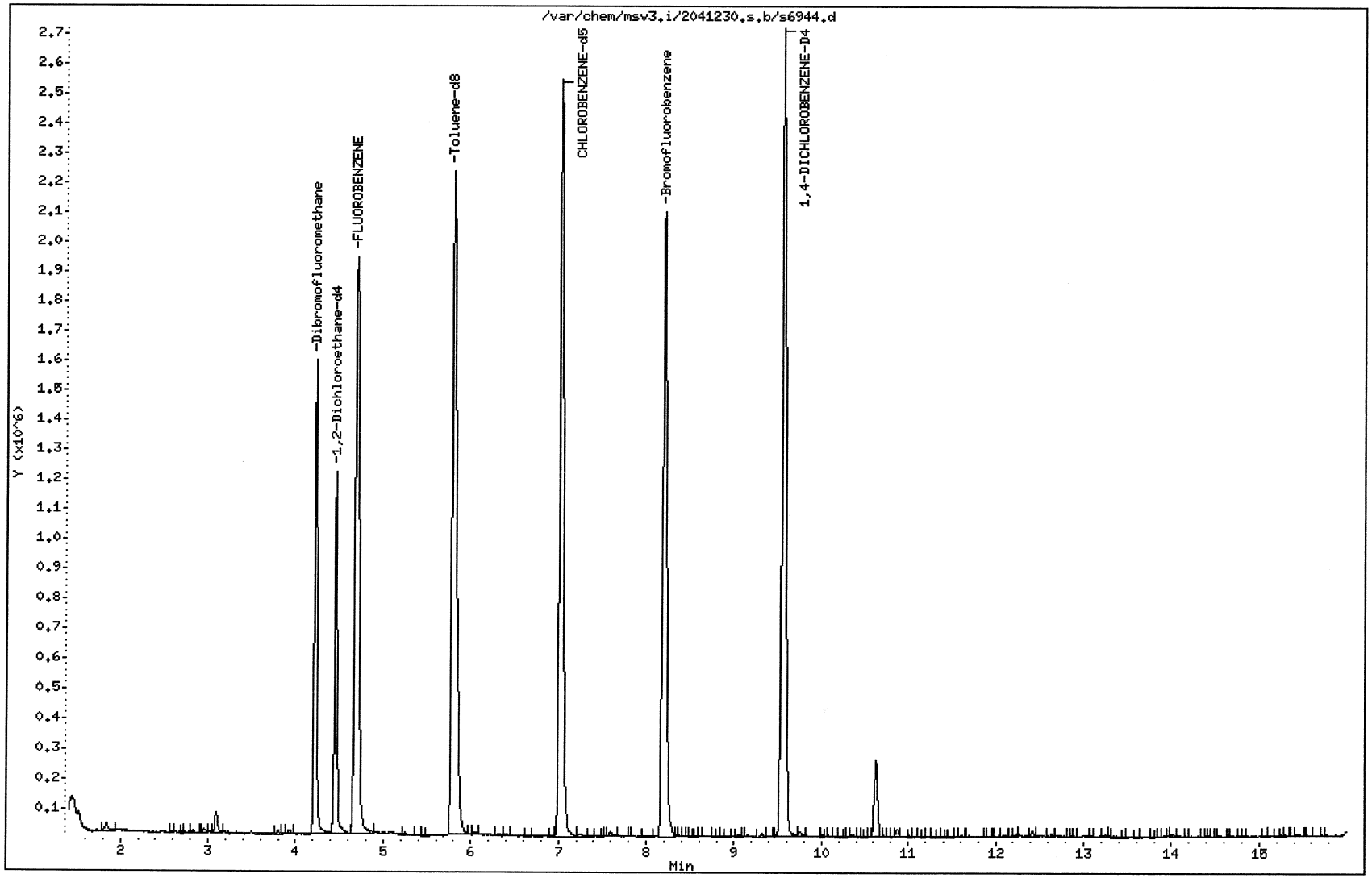
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv3.i/2041230.s.b/s6944.d
Date : 30-DEC-2004 20:02
Client ID: 001-TB-W-1228-04
Sample Info: 20412290202*001-TB-W-1228-04
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53



000043

Data File: /var/chem/msv3.i/2041230.s.b/s6944.d

Date : 30-DEC-2004 20:02

Client ID: 001-TB-W-1228-04

Instrument: msv3.i

Sample Info: 20412290202*001-TB-W-1228-04

Purge Volume: 5.0

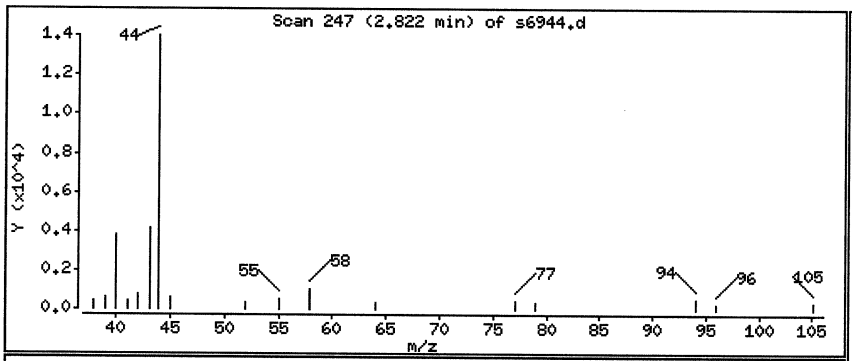
Operator: RJO

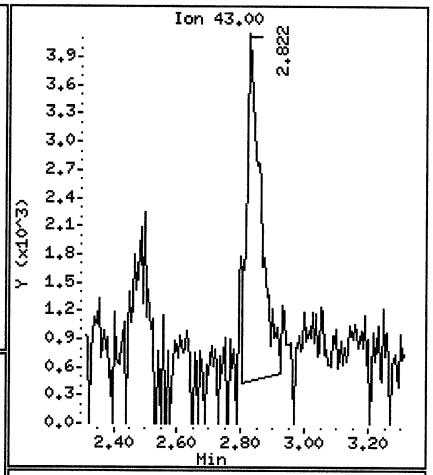
Column phase: DB-624

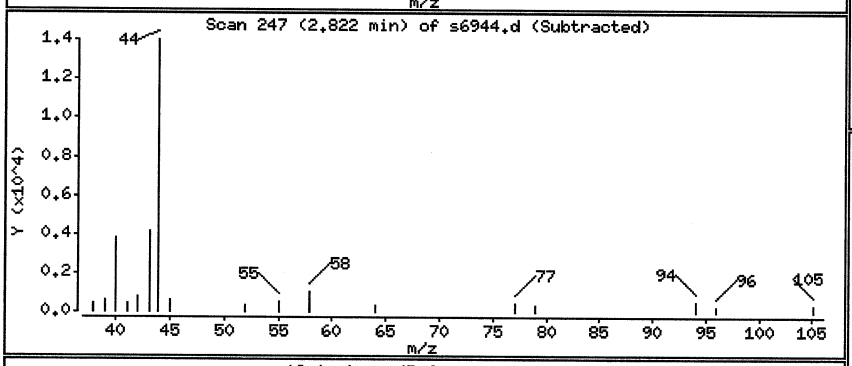
Column diameter: 0.53

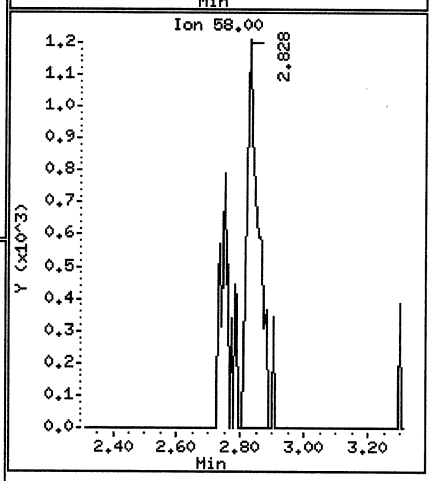
12 Acetone

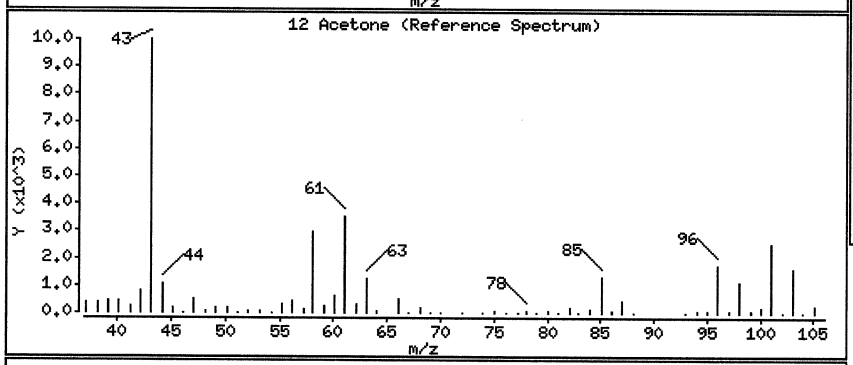
Concentration: 2.63 ug/L

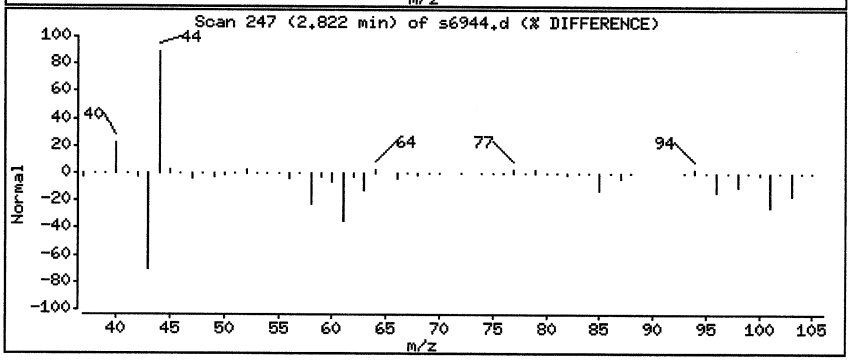












Data File: /var/chem/msv3.i/2041230.s.b/s6944.d

Date : 30-DEC-2004 20:02

Client ID: 001-TB-W-1228-04

Instrument: msv3.i

Sample Info: 20412290202*001-TB-W-1228-04

Purge Volume: 5.0

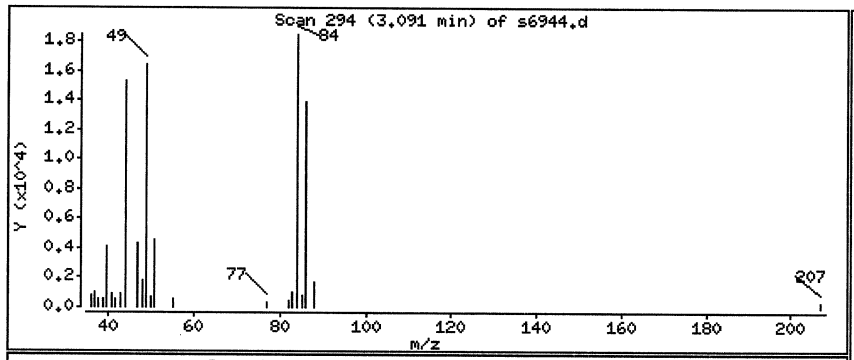
Operator: RJO

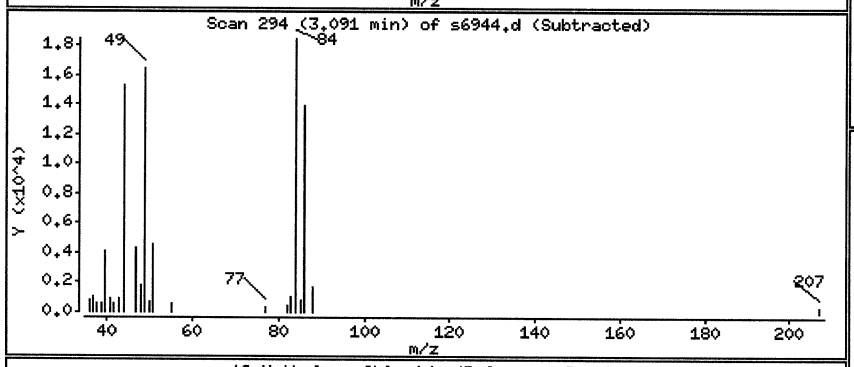
Column phase: DB-624

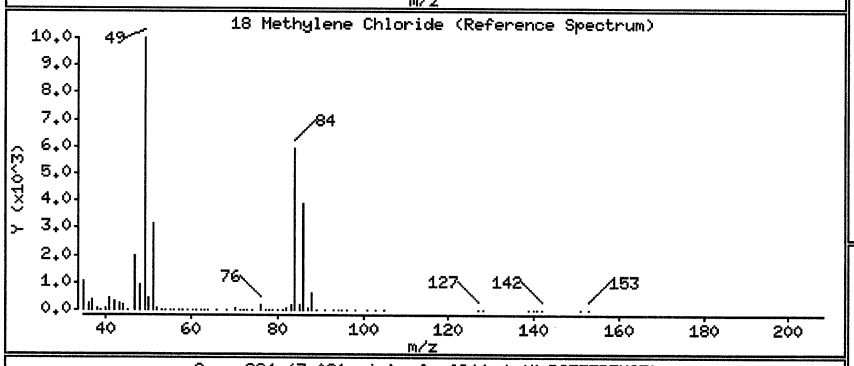
Column diameter: 0.53

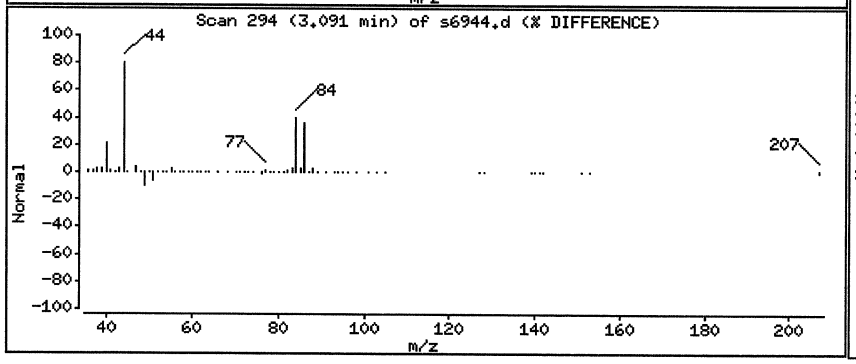
18 Methylene Chloride

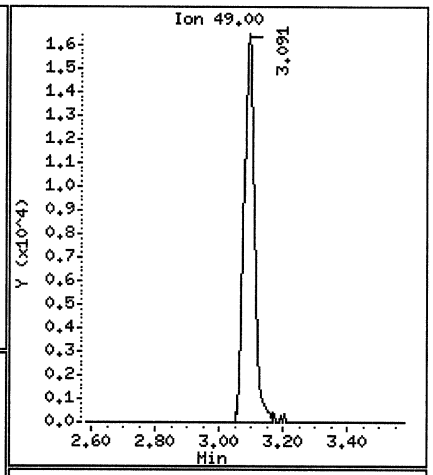
Concentration: 2.96 ug/L

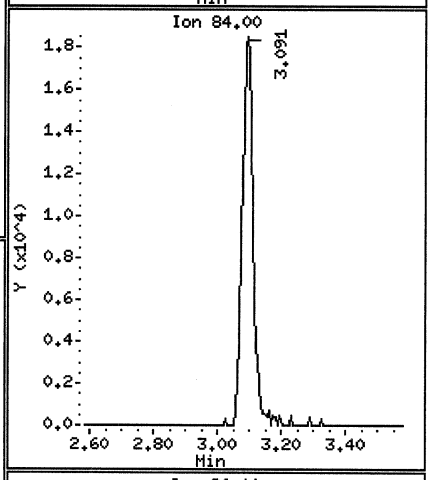


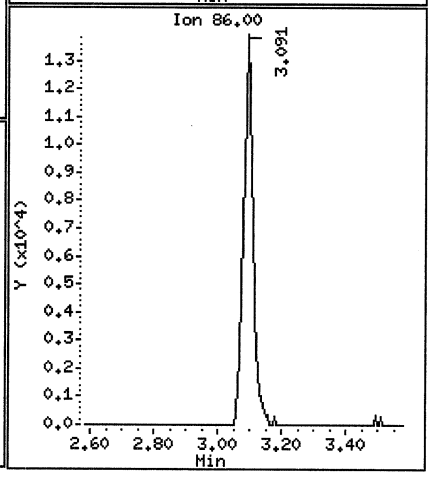












Data File: /var/chem/msv3.i/2041230.s.b/s6944.d

Date : 30-DEC-2004 20:02

Client ID: 001-TB-W-1228-04

Instrument: msv3.i

Sample Info: 20412290202*001-TB-W-1228-04

Purge Volume: 5.0

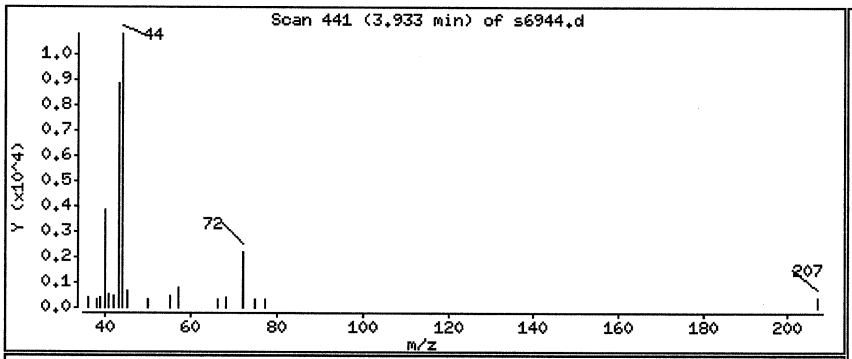
Operator: RJO

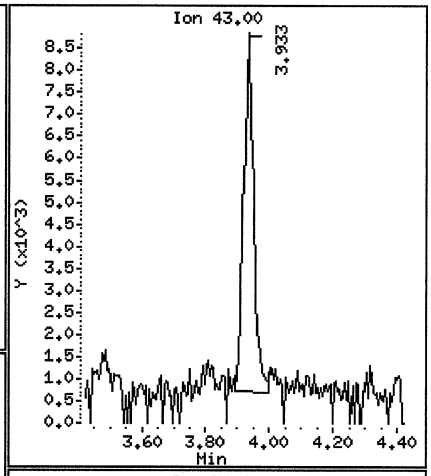
Column phase: DB-624

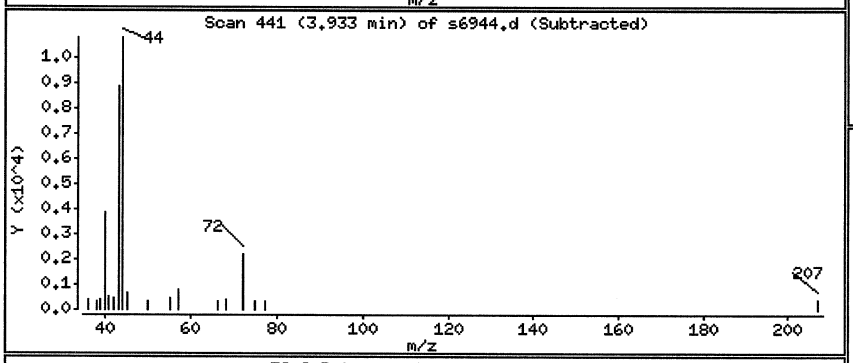
Column diameter: 0.53

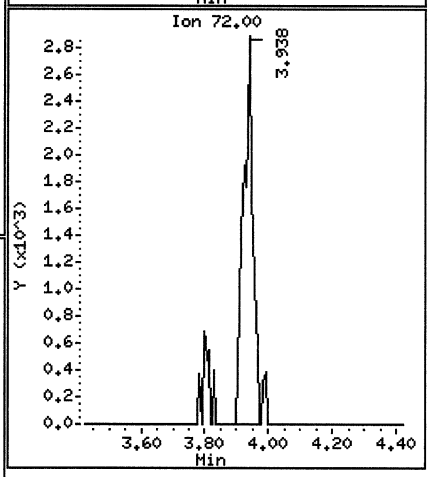
32 2-Butanone

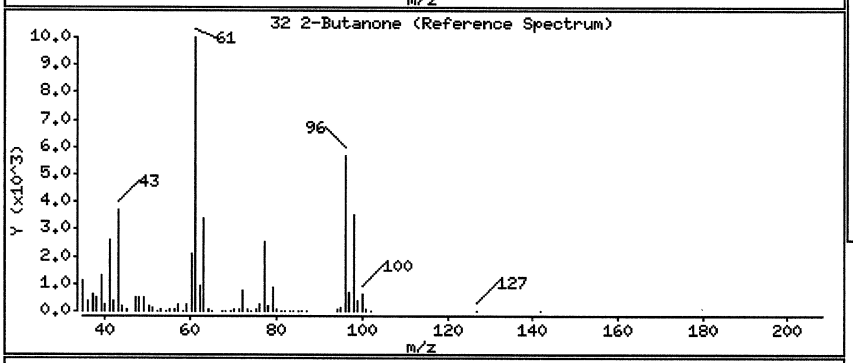
Concentration: 1.85 ug/L

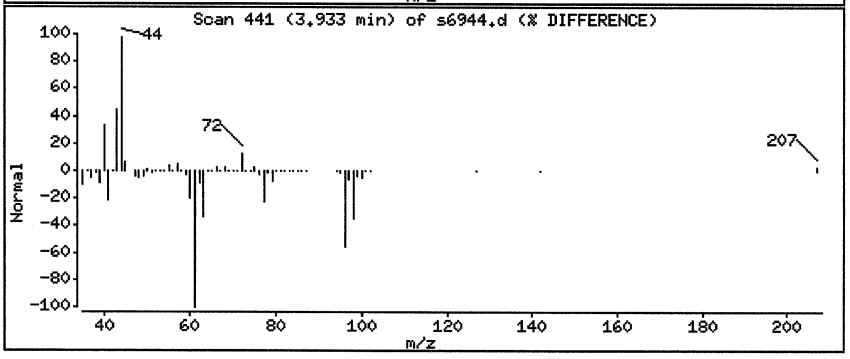








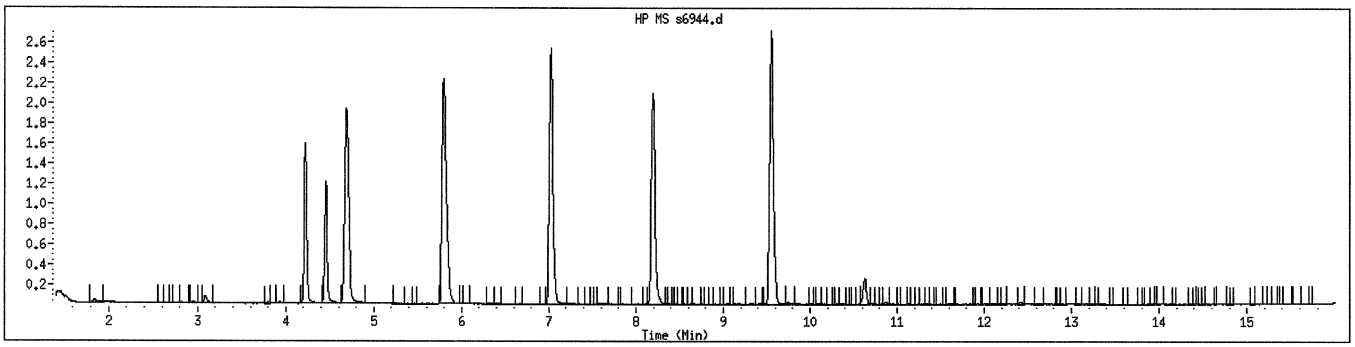




Data file : /var/chem/msv3.i/2041230.s.b/s6944.d
Report Date: 12/31/2004 06:55

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412290202	SampleType	: SAMPLE
Injection Date	: 30-DEC-2004 20:02	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 20412290202*001-TB-W-1228-04		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSV0

Calibration Date 1: 12/27/04 Time 1: 1245

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

Calibration Date 2: 12/27/04 Time 2: 1436

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285487

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	20558	58079	147151	288997	584251					0.128	-0.077		0.999	L
Acrolein	0.033	0.032	0.035	0.032	0.032					0.033			3.878	A
Acrylonitrile	0.146	0.144	0.150	0.130	0.133					0.140			6.281	A
Bromochloromethane	0.118	0.121	0.121	0.115	0.110	0.123				0.118			4.040	A
Bromodichloromethane	0.369	0.379	0.382	0.379	0.377	0.363				0.375			1.975	A
Bromoform	0.303	0.297	0.328	0.328	0.358	0.278				0.315			8.974	A
Bromomethane	0.127	0.125	0.109	0.102	0.090					0.111			14.34	A
Carbon disulfide	0.679	0.588	0.638	0.619	0.587	0.609				0.620			5.597	A
Carbon tetrachloride	0.277	0.275	0.277	0.267	0.269	0.265				0.272			1.835	A
Chloroethane	0.145	0.149	0.149	0.142	0.129	0.155				0.145			6.156	A
m,p-Xylene	1.047	1.041	1.087	1.030	0.965					1.034			4.250	A
Chloroform	0.505	0.494	0.486	0.470	0.457	0.499				0.485			3.799	A
Chloromethane	0.151	0.153	0.174	0.177	0.207	0.244				0.184			19.28	A
Dibromochloromethane	0.486	0.488	0.531	0.521	0.534					0.512			4.584	A
Dibromomethane	0.174	0.170	0.176	0.170	0.171	0.166				0.171			1.878	A
Dichlorodifluoromethane	0.314	0.322	0.312	0.314	0.313	0.329				0.317			2.071	A
1,1-Dichloroethane	0.648	0.623	0.642	0.609	0.568	0.581				0.612			5.281	A
1,2-Dichloroethane	0.501	0.497	0.492	0.474	0.470	0.514				0.492			3.377	A
cis-1,2-Dichloroethene	0.564	0.578	0.581	0.556	0.535	0.565				0.563			3.006	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.: 204122902

Instrument ID: MSV0

Calibration Date 1: 12/27/04 Time 1: 1245

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

Calibration Date 2: 12/27/04 Time 2: 1436

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285487

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 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	0.457	0.422	0.467	0.440	0.409	0.420				0.436			5.245	A
Methylene chloride	0.478	0.465	0.510	0.475	0.440	0.440				0.468			5.615	A
1,2-Dichloropropane	0.403	0.402	0.416	0.401	0.390	0.402				0.402			2.068	A
cis-1,3-Dichloropropene	0.524	0.562	0.578	0.570	0.576					0.562			3.967	A
trans-1,3-Dichloropropene	0.981	1.030	1.117	1.090	1.091					1.062			5.197	A
Ethylbenzene	0.810	0.794	0.851	0.822	0.795					0.814			2.909	A
2-Hexanone	0.734	0.726	0.828	0.774	0.773					0.767			5.303	A
Isopropylbenzene (Cumene)	2.457	2.579	2.730	2.715	2.668	2.352				2.583			5.886	A
2-Butanone	0.323	0.256	0.267	0.250	0.247					0.269			11.70	A
Methyl iodide	0.063	0.086	0.101	0.126		0.056				0.086			33.11	A
4-Methyl-2-pentanone	0.507	0.519	0.566	0.540	0.571					0.541			5.183	A
n-Propylbenzene	4.966	5.100	5.133	4.910	4.518					4.925			4.986	A
Styrene	1.756	1.822	1.961	1.922	1.842	1.670				1.829			5.841	A
Tetrachloroethene	0.383	0.377	0.404	0.395	0.408	0.384				0.392			3.221	A
1,1,1,2-Tetrachloroethane	0.454	0.449	0.472	0.467	0.468	0.441				0.458			2.648	A
1,1,2,2-Tetrachloroethane	1.144	1.065	1.087	1.038	1.058	1.101				1.082			3.456	A
1,2,4-Trichlorobenzene	0.775	0.886	0.951	1.016	1.087					0.943			12.71	A
1,1,1-Trichloroethane	0.391	0.389	0.385	0.375	0.365	0.399				0.384			3.136	A
1,1,2-Trichloroethane	0.519	0.495	0.536	0.505	0.515	0.500				0.512			2.933	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.: 204122902

Instrument ID: MSV0

Calibration Date 1: 12/27/04 Time 1: 1245

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

Calibration Date 2: 12/27/04 Time 2: 1436

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285487

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorofluoromethane	0.354	0.349	0.345	0.341	0.325	0.361				0.346			3.533	A
1,2,3-Trichloropropane	1.438	1.402	1.417	1.342	1.314	1.421				1.389			3.563	A
1,2,4-Trimethylbenzene	3.084	3.200	3.222	3.148	3.114					3.153			1.825	A
1,3,5-Trimethylbenzene	2.947	3.100	3.104	2.992	2.806					2.990			4.126	A
Vinyl chloride	0.284	0.280	0.281	0.286	0.295	0.271				0.283			2.788	A
o-Xylene	0.970	1.020	1.068	1.030	0.985	0.921				0.999			5.173	A
1,2-Dibromo-3-chloropropane	0.150	0.152	0.166	0.167	0.176	0.131				0.157			10.17	A
1,2-Dibromoethane	0.488	0.486	0.526	0.518	0.528	0.483				0.505			4.244	A
Vinyl acetate	0.844	0.932	0.965	0.861	0.912	0.767				0.880			8.104	A
tert-Butyl methyl ether (MTBE)	0.729	0.692	0.776	0.761	0.741	0.605				0.717			8.652	A
1,2-Dichloroethene	0.511	0.500	0.524	0.498	0.472					0.501			3.865	A
4-Isopropyltoluene	2.984	3.270	3.216	3.229	3.113	2.859				3.112			5.175	A
Xylene (total)	1.420	1.444	1.429	1.352	1.261					1.381			5.493	A
Methylcyclohexane	0.469	0.507	0.524	0.507	0.498	0.451				0.493			5.548	A
n-Hexane	0.483	0.507	0.502	0.482	0.444	0.398				0.469			8.810	A
trans-1,4-Dichloro-2-butene	0.365	0.368	0.384	0.358	0.336					0.362			4.822	A
Cyclohexane	0.643	0.679	0.668	0.637	0.568					0.639			6.768	A
2,2-Dichloropropane	0.404	0.411	0.418	0.403	0.395	0.414				0.408			2.099	A
Methyl Acetate	0.209	0.207	0.225	0.205	0.196					0.208			5.073	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.: 204122902

Instrument ID: MSV0

Calibration Date 1: 12/27/04 Time 1: 1245

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

Calibration Date 2: 12/27/04 Time 2: 1436

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285487

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorotrifluoroethane	0.187	0.190	0.186	0.184	0.168	0.174				0.182			4.696	A
1,1-Dichloropropene	0.401	0.416	0.424	0.400	0.401					0.408			2.708	A
2-Chloroethylvinyl ether	0.614	0.614	0.629	0.610	0.605					0.614			1.428	A
1,3-Dichloropropane	1.145	1.138	1.212	1.168	1.147	1.111				1.154			2.944	A
Bromobenzene	2.444	2.395	2.408	2.282	2.102	2.470				2.350			5.858	A
2-Chlorotoluene	3.285	3.250	3.288	3.122	2.934	3.322				3.200			4.616	A
4-Chlorotoluene	2.998	3.066	3.102	3.031	3.036	2.942				3.029			1.825	A
tert-Butylbenzene	2.125	2.247	2.251	2.227	2.190					2.208			2.365	A
sec-Butylbenzene	3.923	4.166	4.172	4.104	4.036					4.080			2.541	A
1,3-Dichlorobenzene	1.594	1.607	1.641	1.615	1.634	1.647				1.623			1.300	A
1,4-Dichlorobenzene	1.704	1.694	1.692	1.677	1.679	1.782				1.705			2.301	A
n-Butylbenzene	3.258	3.606	3.625	3.669	3.504	3.157				3.470			6.133	A
1,2-Dichlorobenzene	1.550	1.535	1.547	1.550	1.607	1.541				1.555			1.685	A
Hexachlorobutadiene	0.386	0.413	0.421	0.447	0.473					0.428			7.776	A
Naphthalene	57654	309604	951731	2044815	4908371					2.856	0.110		0.998	L
1,2,3-Trichlorobenzene	0.690	0.795	0.864	0.911	0.981					0.848			13.11	A
1-Bromo-2-chloroethane	0.040	0.043	0.045	0.045	0.046					0.044			5.121	A
1,1-Dichloroethene	0.158	0.155	0.156	0.156	0.149	0.136				0.152			5.541	A
Benzene	1.308	1.289	1.303	1.236	1.192	1.311				1.273			3.822	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.: 204122902

Instrument ID: MSV0

Calibration Date 1: 12/27/04 Time 1: 1245

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

Calibration Date 2: 12/27/04 Time 2: 1436

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285487

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichloroethene	0.238	0.243	0.252	0.251	0.250	0.263				0.250			3.357	A
Toluene	2.598	2.546	2.689	2.616	2.560					2.602			2.163	A
Chlorobenzene	1.560	1.502	1.583	1.530	1.527	1.649				1.559			3.375	A
4-Bromofluorobenzene	0.505	0.502	0.561	0.559	0.591					0.544			7.124	A
Dibromofluoromethane	0.247	0.234	0.246	0.231	0.220					0.236			4.688	A
Toluene-d8	1.849	1.790	1.985	1.891	1.866					1.876			3.795	A
1,2-Dichloroethane-d4	0.194	0.190	0.195	0.182	0.182					0.189			3.206	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/msv0.i/2041227.s.b/t8722.d
Lab Smp Id: 1000 Client Smp ID: V0BFB
Inj Date : 27-DEC-2004 12:07
Operator : MEF Inst ID: msv0.i
Smp Info : 1000*V0BFB
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/bfb0.m
Meth Date : 21-Dec-2004 11:13 kcb 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)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.376	9.555	(0.000)	95	192682			100.00- 100.00	100.00
9.376	9.555	(0.000)	50	63632			15.00- 40.00	33.02
9.376	9.555	(0.000)	75	108562			30.00- 60.00	56.34
9.376	9.555	(0.000)	96	12942			5.00- 9.00	6.72
9.376	9.555	(0.000)	173	0			0.00- 2.00	0.00
9.376	9.555	(0.000)	174	121829			50.00- 99.99	63.23
9.376	9.555	(0.000)	175	9012			5.00- 9.00	7.40
9.376	9.555	(0.000)	176	121248			95.00- 101.00	99.52
9.376	9.555	(0.000)	177	7727			5.00- 9.00	6.37

Data File: /var/chem/msv0.i/2041227.s.b/t8722.d

Date : 27-DEC-2004 12:07

Client ID: VOBFB

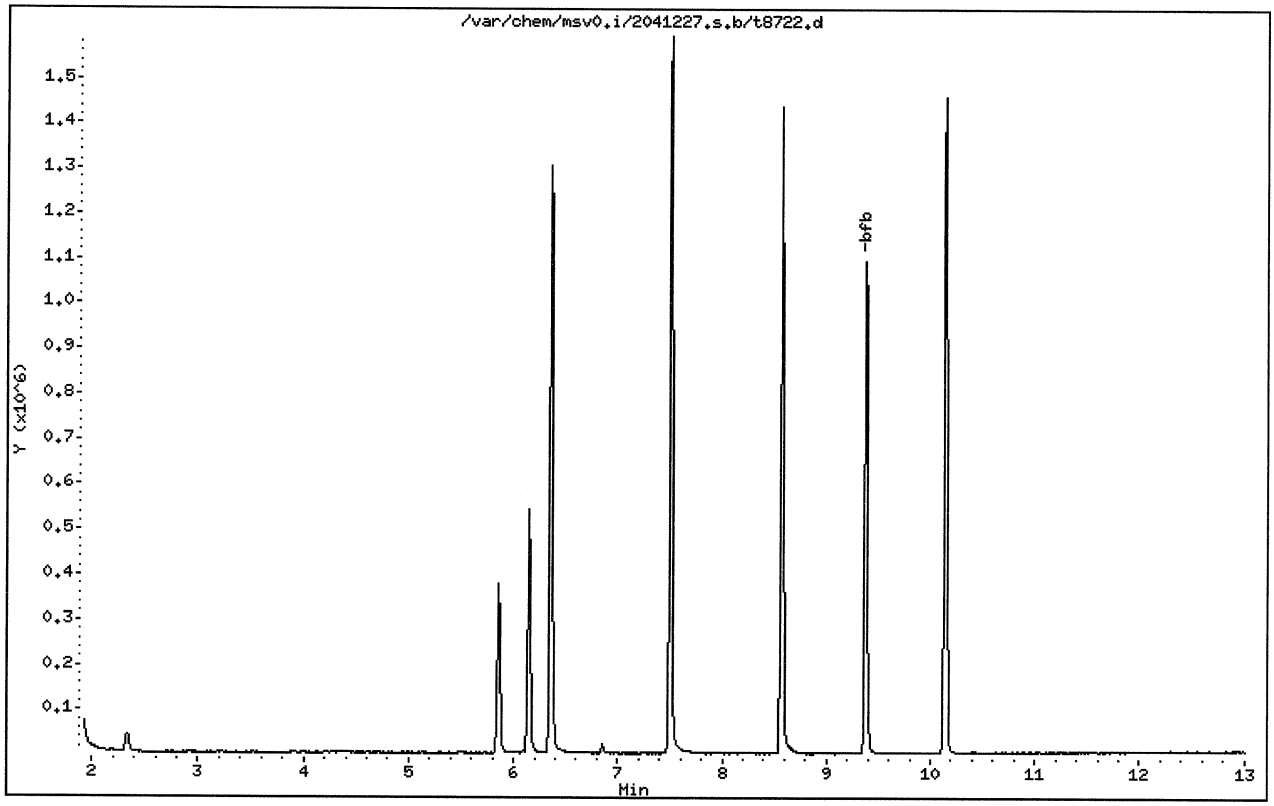
Instrument: msv0.i

Sample Info: 1000*VOBFB

Operator: MEF

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv0.i/2041227.s.b/t8722.d

Date : 27-DEC-2004 12:07

Client ID: VOBFB

Instrument: msv0.i

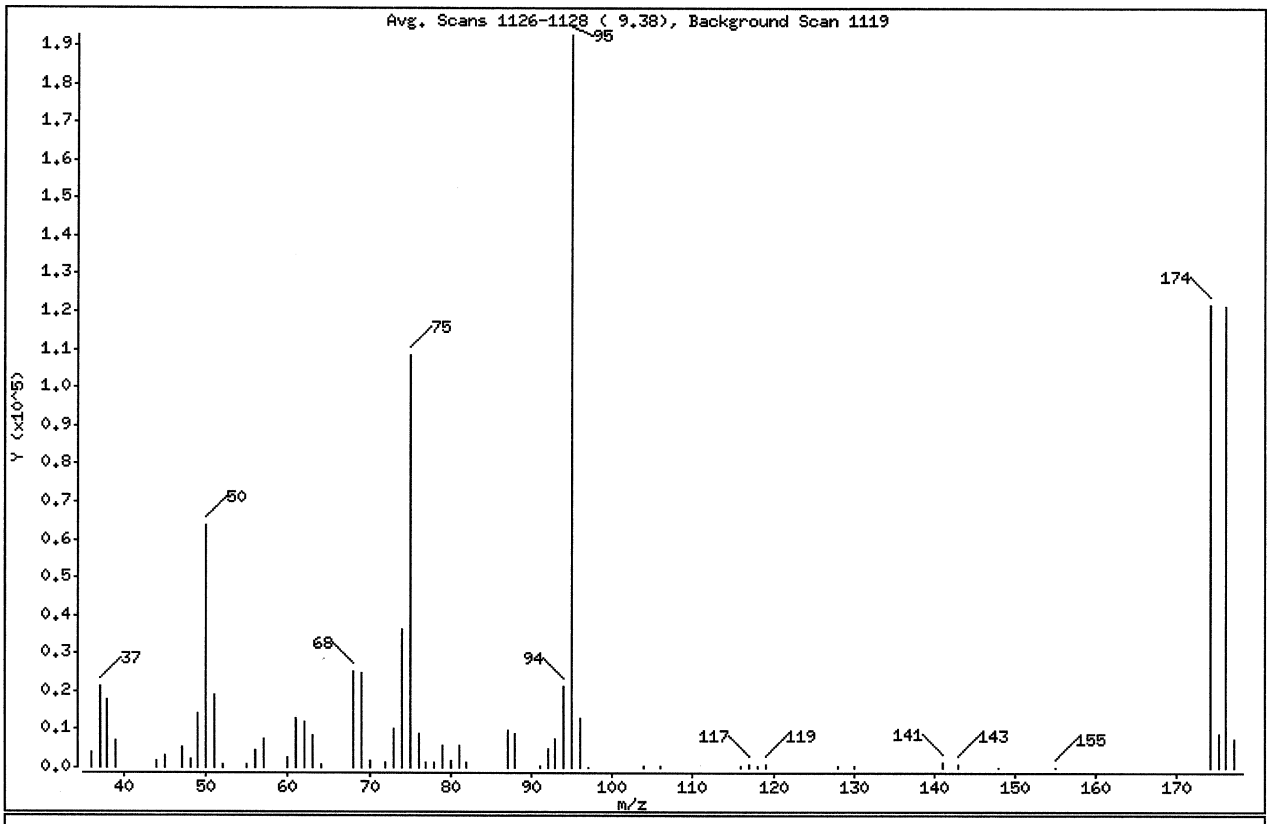
Sample Info: 1000WVOBFB

Operator: MEF

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	33.02
75	30.00 - 60.00% of mass 95	56.34
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	63.23
175	5.00 - 9.00% of mass 174	4.68 (7.40)
176	95.00 - 101.00% of mass 174	62.93 (99.52)
177	5.00 - 9.00% of mass 176	4.01 (6.37)

Data File: /var/chem/msv0.i/2041227.s.b/t8722.d

Date : 27-DEC-2004 12:07

Client ID: V0BFB

Instrument: msv0.i

Sample Info: 1000*V0BFB

Operator: MEF

Column phase: DB-624-30M

Column diameter: 0.53

Data File: t8722.d

Spectrum: Avg. Scans 1126-1128 (9.38), Background Scan 1119

Location of Maximum: 95.00

Number of points: 59

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4182	60.00	2687	79.00	5596	116.00	535
37.00	21256	61.00	12630	80.00	1629	117.00	892
38.00	17560	62.00	11943	81.00	5616	118.00	563
39.00	6957	63.00	8506	82.00	1223	119.00	895
44.00	1813	64.00	874	87.00	9591	128.00	349
45.00	3287	68.00	25296	88.00	9071	130.00	583
47.00	5344	69.00	24704	91.00	663	141.00	1251
48.00	2291	70.00	1978	92.00	4974	143.00	1104
49.00	14174	72.00	1196	93.00	7366	148.00	162
50.00	63632	73.00	10098	94.00	21368	155.00	148
51.00	19200	74.00	36464	95.00	192640	174.00	121824
52.00	797	75.00	108560	96.00	12942	175.00	9012
55.00	915	76.00	9060	97.00	157	176.00	121248
56.00	4345	77.00	1509	104.00	627	177.00	7727
57.00	7684	78.00	1281	106.00	622		

GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8723.d
Lab Smp Id: 1206 Client Smp ID: V2STD002
Inj Date : 27-DEC-2004 12:45
Operator : MEF Inst ID: msv0.i
Smp Info : 1206*V2STD002*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:02 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 12:45 Cal File: t8723.d
Als bottle: 1 Calibration Sample, Level: 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	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.051	2.051	(0.322)	13232	2.00000	2.07	(a)
2 Chloromethane ++	50	2.269	2.269	(0.357)	9835	2.00000	2.65	(a)
3 Vinyl Chloride +	62	2.388	2.388	(0.375)	10914	2.00000	1.92	(a)
5 Bromomethane	94	2.785	2.785	(0.438)	6067	2.00000	2.72	(a)
6 Chloroethane	64	2.897	2.897	(0.455)	6236	2.00000	2.14	(a)
7 Trichlorofluoromethane	101	3.162	3.162	(0.497)	14526	2.00000	2.09	(a)
9 Acrolein	56	3.750	3.750	(0.590)	5077	2.00000	7.75	
10 1,1,2Trichlotrifluoroethane	101	3.723	3.723	(0.585)	6995	2.00000	1.91	(a)
11 1,1-Dichloroethene +	96	3.776	3.776	(0.594)	5460	2.00000	1.79	(a)
13 Methyl Iodide	142	3.968	3.968	(0.624)	2264	2.00000	1.30	(a)
14 Carbon Disulfide	76	3.994	3.994	(0.628)	24540	2.00000	1.96	(a)
17 Methylene Chloride	49	4.338	4.338	(0.682)	17731	2.00000	1.88	(a)
19 trans-1,2-Dichloroethene	61	4.550	4.550	(0.715)	16901	2.00000	1.93	(a)
20 Methyl Acetate	43	4.213	4.213	(0.662)	8433	2.00000	1.92	610(aH)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	4.523	4.523	(0.711)	24379	2.00000	1.69	4707(a)
	22 Acrylonitrile	53	4.636	4.636	(0.729)	25484	2.00000	9.02	
	23 Hexane	57	4.715	4.715	(0.741)	16031	2.00000	1.70	0(aM)
	24 1,1-Dichloroethane ++	63	4.973	4.973	(0.782)	23414	2.00000	1.90	(a)
	25 Vinyl Acetate	43	4.993	4.993	(0.785)	30899	2.00000	1.74	(a)
	31 2,2-Dichloropropane	77	5.449	5.449	(0.857)	16690	2.00000	2.03	(a)
	30 cis-1,2-Dichloroethene	61	5.475	5.475	(0.861)	22750	2.00000	2.01	(a)
	32 2-Butanone	43	5.508	5.508	(0.866)	15337	2.00000	2.83	(a)
	34 Bromochloromethane	128	5.687	5.687	(0.894)	4941	2.00000	2.08	(a)
$	36 Dibromofluoromethane	111	5.859	5.859	(0.921)	10524	2.00000	2.22	4461(a)
	37 1,1,1-Trichloroethane	97	5.852	5.852	(0.920)	16053	2.00000	2.08	(a)
	38 Cyclohexane	56	5.832	5.832	(0.917)	24747	2.00000	1.92	4186(a)
	39 Carbon Tetrachloride	117	5.951	5.951	(0.936)	10692	2.00000	1.95	(a)
	41 Chloroform +	83	5.720	5.720	(0.899)	20106	2.00000	2.06	(a)
	42 1,1-Dichloropropene	75	5.971	5.971	(0.939)	15930	2.00000	1.94	(a)
$	43 1,2-Dichloroethane-d4	67	6.149	6.149	(0.967)	7742	2.00000	2.04	(a)
	44 Benzene	78	6.136	6.136	(0.965)	52799	2.00000	2.06	(a)
	46 1,2-Dichloroethane	62	6.209	6.209	(0.976)	20704	2.00000	2.09	(a)
*	47 FLUOROBENZENE	96	6.361	6.361	(1.000)	1006811	50.0000		
M	48 Total 1,2-Dichloroethene	61				39651	2.00000	3.93	(a)
	49 Trichloroethene	130	6.625	6.625	(1.042)	10591	2.00000	2.11	(a)
	50 Methyl Cyclohexane	83	6.718	6.718	(1.056)	18159	2.00000	1.83	6274(a)
	51 1,2-Dichloropropane +	63	6.830	6.830	(1.074)	16187	2.00000	2.00	(a)
	52 Dibromomethane	93	6.930	6.930	(1.089)	6704	2.00000	1.95	(a)
	54 Bromodichloromethane	83	7.022	7.022	(1.104)	14601	2.00000	1.93	(a)
	56 2-Chloroethyl vinyl ether	63	7.280	7.280	(1.144)	24337	2.00000	1.97	(aM)
	57 1-Bromr-2-chloroethana	144	7.280	7.280	(1.144)	1511	2.00000	1.71	2608(a)
	58 cis-1,3-Dichloropropene	75	7.346	7.346	(1.155)	20529	2.00000	1.81	(a)
	59 4-methyl-2-pentanone	43	7.465	7.465	(1.174)	19466	2.00000	1.79	(a)
$	60 Toluene-d8	98	7.505	7.505	(0.875)	36769	2.00000	1.97	(a)
	61 Toluene +	91	7.558	7.558	(0.881)	50125	2.00000	1.94	(a)
	62 trans-1,3-Dichloropropene	75	7.749	7.749	(0.904)	18625	2.00000	1.77	(a)
	65 1,1,2-Trichloroethane	97	7.888	7.888	(0.920)	9929	2.00000	1.95	(a)
	66 Tetrachloroethene	164	7.934	7.934	(0.925)	7625	2.00000	1.96	(a)
	67 1,3-Dichloropropane	76	8.020	8.020	(0.935)	22087	2.00000	1.93	(a)
	68 2-Hexanone	43	8.073	8.073	(0.941)	12557	2.00000	1.65	(a)
	69 Dibromochloromethane	129	8.172	8.172	(0.953)	9605	2.00000	1.89	(a)
	70 1,2-Dibromoethane(EDB)	107	8.278	8.278	(0.965)	9597	2.00000	1.91	(a)
*	71 CHLOROBENZENE-d5	82	8.575	8.575	(1.000)	496814	50.0000		
	72 Chlorobenzene ++	112	8.595	8.595	(1.002)	32770	2.00000	2.12	(a)
	73 Ethylbenzene +	106	8.622	8.622	(1.005)	15723	2.00000	1.94	(a)
	74 1,1,1,2-Tetrachloroethane	133	8.648	8.648	(1.008)	8770	2.00000	1.93	(aM)
	75 p,m-Xylene	106	8.701	8.701	(1.015)	40232	2.00000	3.92	(a)
	76 o-Xylene	106	8.992	8.992	(1.049)	18293	2.00000	1.84	(a)
	77 Styrene	104	9.012	9.012	(1.051)	33181	2.00000	1.83	(a)
	78 Bromoform ++	173	9.184	9.184	(1.071)	5531	2.00000	1.76	(a)
	79 Isopropylbenzene	105	9.217	9.217	(1.075)	46736	2.00000	1.82	(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
$ 80 Bromofluorobenzene	174	9.382	9.382	(1.094)	11108	2.00000	2.06	(a)
81 1,1,2,2-Tetrachloroethane++	83	9.468	9.468	(0.934)	15401	2.00000	2.04	(a)
84 Bromobenzene	77	9.494	9.494	(0.936)	34541	2.00000	2.10	(a)
83 trans-1,4-Dichloro-2-Butene	53	9.501	9.501	(0.937)	4669	2.00000	1.84	(a)
85 1,2,3-Trichloropropane	75	9.514	9.514	(0.938)	19873	2.00000	2.05	(a)
86 n-Propylbenzene	91	9.494	9.494	(0.936)	66565	2.00000	1.93	(a)
87 2-Chlorotoluene	91	9.600	9.600	(0.947)	46456	2.00000	2.08	(a)
88 1,3,5-Trimethylbenzene	105	9.600	9.600	(0.947)	40614	2.00000	1.94	(a)
90 4-Chlorotoluene	91	9.673	9.673	(0.954)	41150	2.00000	1.94	(a)
91 tert-butylbenzene	91	9.818	9.818	(0.968)	29033	2.00000	1.88	(a)
92 p-Isopropyltoluene	119	10.043	10.043	(0.990)	39983	2.00000	1.84	(a)
93 1,2,4-Trimethylbenzene	105	9.858	9.858	(0.972)	41553	2.00000	1.88	(a)
94 sec-Butylbenzene	105	9.964	9.964	(0.982)	52921	2.00000	1.85	(a)
96 1,3-Dichlorobenzene	146	10.096	10.096	(0.995)	23034	2.00000	2.03	(a)
* 97 1,4-DICHLOROBENZENE-D4	152	10.142	10.142	(1.000)	349618	50.0000		
98 1,4-Dichlorobenzene	146	10.155	10.155	(1.001)	24922	2.00000	2.09	(a)
M 99 TOTAL XYLENE	106				58525	2.00000	5.76	
100 n-Butylbenzene	91	10.307	10.307	(1.016)	44150	2.00000	1.82	(a)
102 1,2-Dichlorobenzene	146	10.413	10.413	(1.027)	21554	2.00000	1.98	(a)
106 1,2-Dibromo-3-Chloropropane	157	10.935	10.935	(1.078)	1832	2.00000	1.67	(a)
108 1,2,4-Trichlorobenzene	180	11.471	11.471	(1.131)	9528	2.00000	1.45	(a)
109 Hexachlorobutadiene	225	11.517	11.517	(1.136)	5399	2.00000	1.80	(a)
110 Naphthalene	128	11.676	11.676	(1.151)	13869	2.00000	6.19	
111 1,2,3-Trichlorobenzene	180	11.841	11.841	(1.167)	7506	2.00000	1.27	(a)

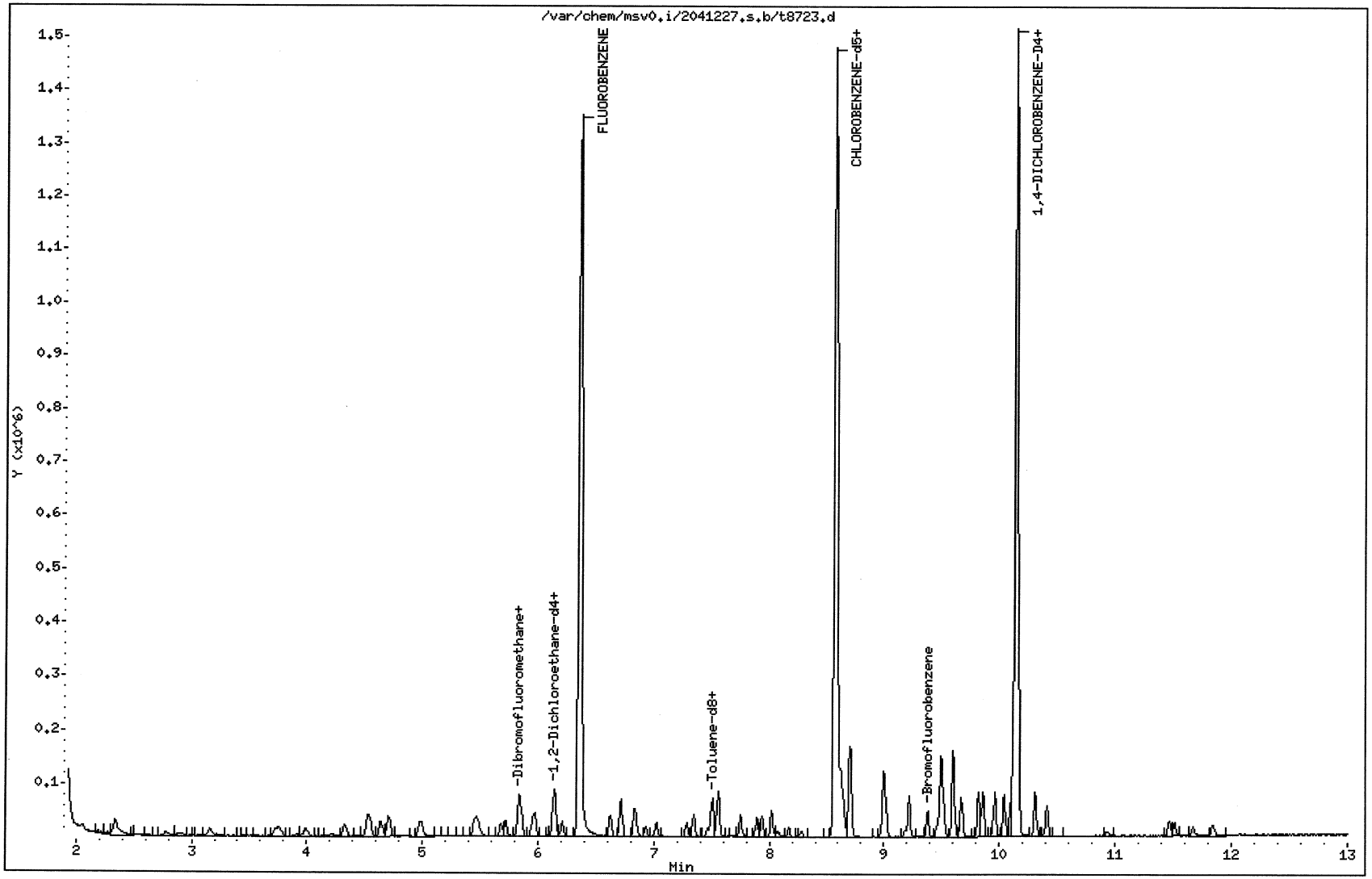
QC Flag Legend

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/msv0.i/2041227.s.b/t8723.d
Date : 27-DEC-2004 12:45
Client ID: V2STD002
Sample Info: 1206*V2STD002*5-21-3
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

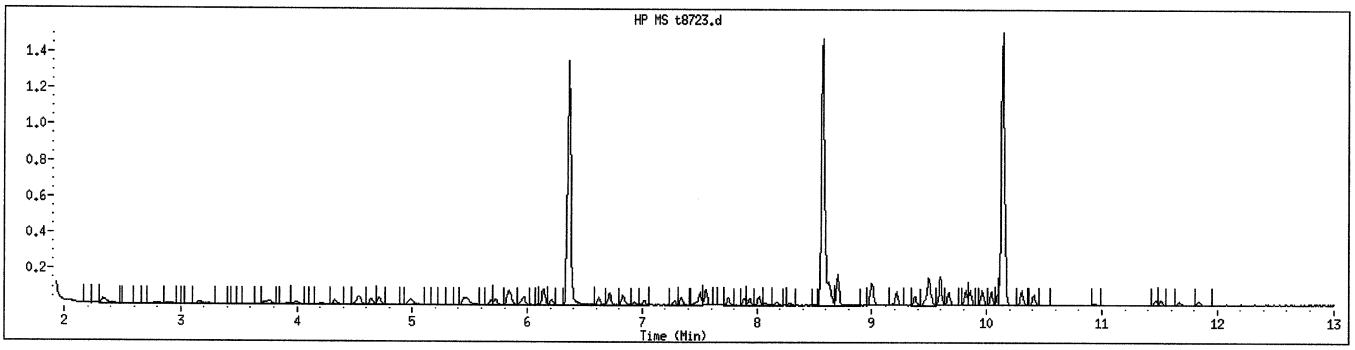
Operator: MEF
Column diameter: 0.53



Data file : /var/chem/msv0.i/2041227.s.b/t8723.d
Report Date: 12/27/2004 15:02

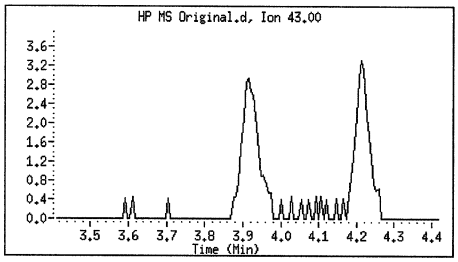
MANUAL INTEGRATION GRAPHIC REPORT

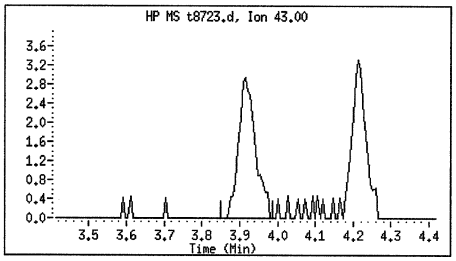
Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 27-DEC-2004 12:45	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 1206*V2STD002*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



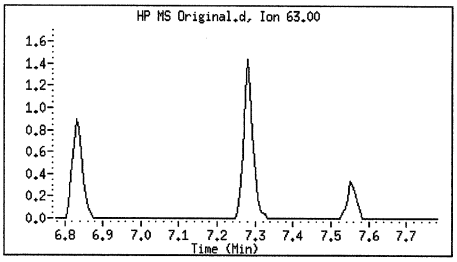
Original | Final

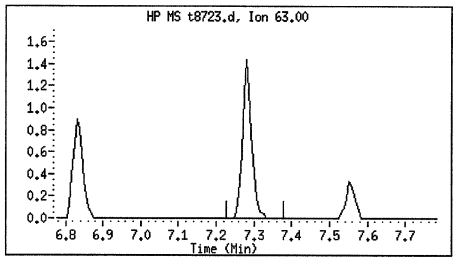
12 Acetone CAS#: 67-64-1





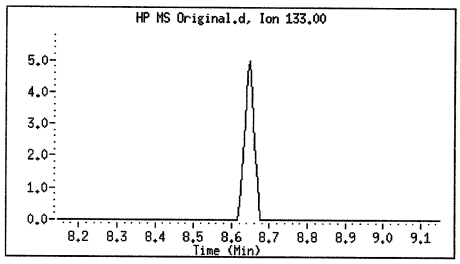
56 2-Chloroethyl vinyl ether CAS#: 110-75-8

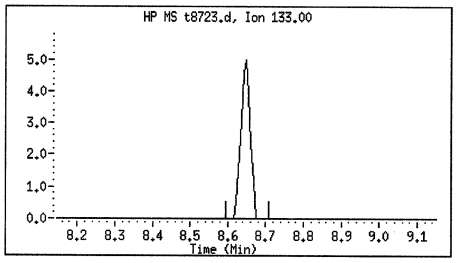




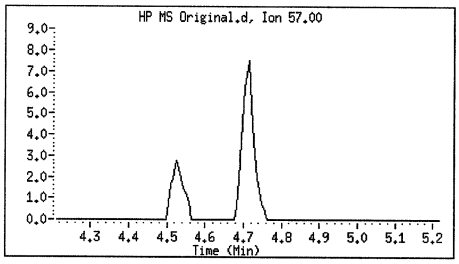
Original | Final

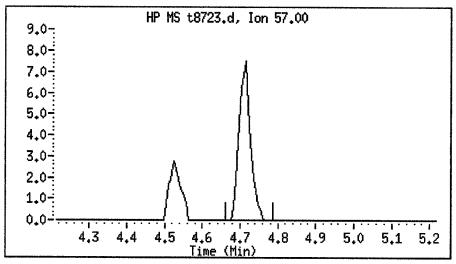
74 1,1,1,2-Tetrachloroethane CAS#: 630-20-6





23 Hexane CAS#: 110-54-3





GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8724.d
Lab Smp Id: 1201 Client Smp ID: V2STD005
Inj Date : 27-DEC-2004 13:07
Operator : MEF Inst ID: msv0.i
Smp Info : 1201*V2STD005*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:02 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 13:07 Cal File: t8724.d
Als bottle: 2 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/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)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.049	2.049	(0.322)	32010	5.00000	4.95	(a)
2 Chloromethane ++	50	2.261	2.261	(0.356)	15428	5.00000	4.10	(a)
3 Vinyl Chloride +	62	2.386	2.386	(0.375)	28911	5.00000	5.02	
5 Bromomethane	94	2.776	2.776	(0.437)	12986	5.00000	5.76	
6 Chloroethane	64	2.902	2.902	(0.456)	14762	5.00000	5.00	
7 Trichlorofluoromethane	101	3.160	3.160	(0.497)	36045	5.00000	5.11	
9 Acrolein	56	3.748	3.748	(0.589)	16603	25.0000	25.0	
10 1,1,2Trichlotrifluoroethane	101	3.728	3.728	(0.586)	19043	5.00000	5.15	
11 1,1-Dichloroethene +	96	3.775	3.775	(0.594)	16052	5.00000	5.20	
12 Acetone	43	3.913	3.913	(0.615)	20558	5.00000	4.04	(a)
13 Methyl Iodide	142	3.960	3.960	(0.623)	6390	5.00000	3.63	(a)
14 Carbon Disulfide	76	3.993	3.993	(0.628)	69178	5.00000	5.47	
17 Methylene Chloride	49	4.330	4.330	(0.681)	48749	5.00000	5.11	
19 trans-1,2-Dichloroethene	61	4.541	4.541	(0.714)	46573	5.00000	5.25	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.211	4.211	(0.662)	21314	5.00000	4.80	1599(aH)
	21 MTBE	73	4.521	4.521	(0.711)	74321	5.00000	5.08	4352
	22 Acrylonitrile	53	4.640	4.640	(0.730)	74294	25.0000	26.0	
	23 Hexane	57	4.713	4.713	(0.741)	49184	5.00000	5.14	2974
	24 1,1-Dichloroethane ++	63	4.971	4.971	(0.782)	66053	5.00000	5.30	
	25 Vinyl Acetate	43	4.997	4.997	(0.786)	85983	5.00000	4.79	(a)
	31 2,2-Dichloropropane	77	5.447	5.447	(0.857)	41123	5.00000	4.95	(a)
	30 cis-1,2-Dichloroethene	61	5.473	5.473	(0.861)	57466	5.00000	5.01	
	32 2-Butanone	43	5.506	5.506	(0.866)	32943	5.00000	6.02	
	34 Bromochloromethane	128	5.678	5.678	(0.893)	12000	5.00000	5.00	
$	36 Dibromofluoromethane	111	5.857	5.857	(0.921)	25131	5.00000	5.23	4930
	37 1,1,1-Trichloroethane	97	5.850	5.850	(0.920)	39881	5.00000	5.09	
	38 Cyclohexane	56	5.837	5.837	(0.918)	65511	5.00000	5.03	4661
	39 Carbon Tetrachloride	117	5.949	5.949	(0.936)	28220	5.00000	5.10	
	41 Chloroform +	83	5.725	5.725	(0.900)	51444	5.00000	5.20	
	42 1,1-Dichloropropene	75	5.969	5.969	(0.939)	40816	5.00000	4.91	(a)
$	43 1,2-Dichloroethane-d4	67	6.148	6.148	(0.967)	19760	5.00000	5.14	
	44 Benzene	78	6.134	6.134	(0.965)	133309	5.00000	5.14	
	46 1,2-Dichloroethane	62	6.207	6.207	(0.976)	51057	5.00000	5.10	
*	47 FLUOROBENZENE	96	6.359	6.359	(1.000)	1018853	50.0000		
M	48 Total 1,2-Dichloroethene	61				104039	10.0000	10.3	
	49 Trichloroethene	130	6.624	6.624	(1.042)	24292	5.00000	4.78	(a)
	50 Methyl Cyclohexane	83	6.716	6.716	(1.056)	47796	5.00000	4.76	6342(a)
	51 1,2-Dichloropropane +	63	6.829	6.829	(1.074)	41098	5.00000	5.01	
	52 Dibromomethane	93	6.934	6.934	(1.090)	17707	5.00000	5.08	
	54 Bromodichloromethane	83	7.020	7.020	(1.104)	37615	5.00000	4.92	(a)
	56 2-Chloroethyl vinyl ether	63	7.278	7.278	(1.144)	62542	5.00000	4.99	(aM)
	57 1-Bromr-2-chloroethana	144	7.278	7.278	(1.144)	4112	5.00000	4.60	2485(a)
	58 cis-1,3-Dichloropropene	75	7.344	7.344	(1.155)	53364	5.00000	4.66	(a)
	59 4-methyl-2-pentanone	43	7.457	7.457	(1.173)	51687	5.00000	4.69	(a)
$	60 Toluene-d8	98	7.503	7.503	(0.875)	92168	5.00000	4.93	(a)
	61 Toluene +	91	7.556	7.556	(0.881)	129492	5.00000	4.99	(a)
	62 trans-1,3-Dichloropropene	75	7.747	7.747	(0.904)	48895	5.00000	4.62	(a)
	65 1,1,2-Trichloroethane	97	7.886	7.886	(0.920)	25865	5.00000	5.07	
	66 Tetrachloroethene	164	7.932	7.932	(0.925)	19072	5.00000	4.88	(a)
	67 1,3-Dichloropropane	76	8.018	8.018	(0.935)	57057	5.00000	4.96	(a)
	68 2-Hexanone	43	8.058	8.058	(0.940)	36563	5.00000	4.78	(a)
	69 Dibromochloromethane	129	8.170	8.170	(0.953)	24206	5.00000	4.74	(a)
	70 1,2-Dibromoethane(EDB)	107	8.276	8.276	(0.965)	24328	5.00000	4.83	(a)
*	71 CHLOROBENZENE-d5	82	8.574	8.574	(1.000)	498406	50.0000		
	72 Chlorobenzene ++	112	8.594	8.594	(1.002)	77774	5.00000	5.01	
	73 Ethylbenzene +	106	8.620	8.620	(1.005)	40376	5.00000	4.97	(a)
	74 1,1,1,2-Tetrachloroethane	133	8.646	8.646	(1.008)	22615	5.00000	4.95	(a)
	75 p,m-Xylene	106	8.706	8.706	(1.015)	104407	10.0000	10.1	
	76 o-Xylene	106	8.990	8.990	(1.049)	48349	5.00000	4.86	(a)
	77 Styrene	104	9.010	9.010	(1.051)	87526	5.00000	4.80	(a)
	78 Bromoform ++	173	9.182	9.182	(1.071)	15099	5.00000	4.80	(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.221	9.221	(1.076)	122457	5.00000	4.76	(a)
$	80 Bromofluorobenzene	174	9.380	9.380	(1.094)	25188	5.00000	4.65	(a)
	81 1,1,2,2-Tetrachloroethane++	83	9.466	9.466	(0.934)	41002	5.00000	5.28	
	84 Bromobenzene	77	9.499	9.499	(0.937)	87636	5.00000	5.20	
	83 trans-1,4-Dichloro-2-Butene	53	9.499	9.499	(0.937)	13082	5.00000	5.04	
	85 1,2,3-Trichloropropane	75	9.512	9.512	(0.938)	51568	5.00000	5.18	
	86 n-Propylbenzene	91	9.493	9.493	(0.936)	178058	5.00000	5.04	
	87 2-Chlorotoluene	91	9.598	9.598	(0.947)	117785	5.00000	5.13	
	88 1,3,5-Trimethylbenzene	105	9.598	9.598	(0.947)	105660	5.00000	4.93	(a)
	90 4-Chlorotoluene	91	9.671	9.671	(0.954)	107468	5.00000	4.95	(a)
	91 tert-butylbenzene	91	9.816	9.816	(0.968)	76194	5.00000	4.81	(a)
	92 p-Isopropyltoluene	119	10.041	10.041	(0.990)	107000	5.00000	4.80	(a)
	93 1,2,4-Trimethylbenzene	105	9.856	9.856	(0.972)	110568	5.00000	4.89	(a)
	94 sec-Butylbenzene	105	9.962	9.962	(0.982)	140657	5.00000	4.81	(a)
	96 1,3-Dichlorobenzene	146	10.101	10.101	(0.996)	57138	5.00000	4.91	(a)
*	97 1,4-DICHLOROBENZENE-D4	152	10.140	10.140	(1.000)	358525	50.0000		
	98 1,4-Dichlorobenzene	146	10.154	10.154	(1.001)	61076	5.00000	5.00	
M	99 TOTAL XYLENE	106				152756	15.0000	15.0	
	100 n-Butylbenzene	91	10.306	10.306	(1.016)	116805	5.00000	4.69	(a)
	102 1,2-Dichlorobenzene	146	10.411	10.411	(1.027)	55574	5.00000	4.98	(a)
	106 1,2-Dibromo-3-Chloropropane	157	10.934	10.934	(1.078)	5382	5.00000	4.78	(a)
	108 1,2,4-Trichlorobenzene	180	11.469	11.469	(1.131)	27796	5.00000	4.11	(a)
	109 Hexachlorobutadiene	225	11.515	11.515	(1.136)	13823	5.00000	4.50	(a)
	110 Naphthalene	128	11.674	11.674	(1.151)	57654	5.00000	8.31	
	111 1,2,3-Trichlorobenzene	180	11.839	11.839	(1.168)	24754	5.00000	4.07	(a)

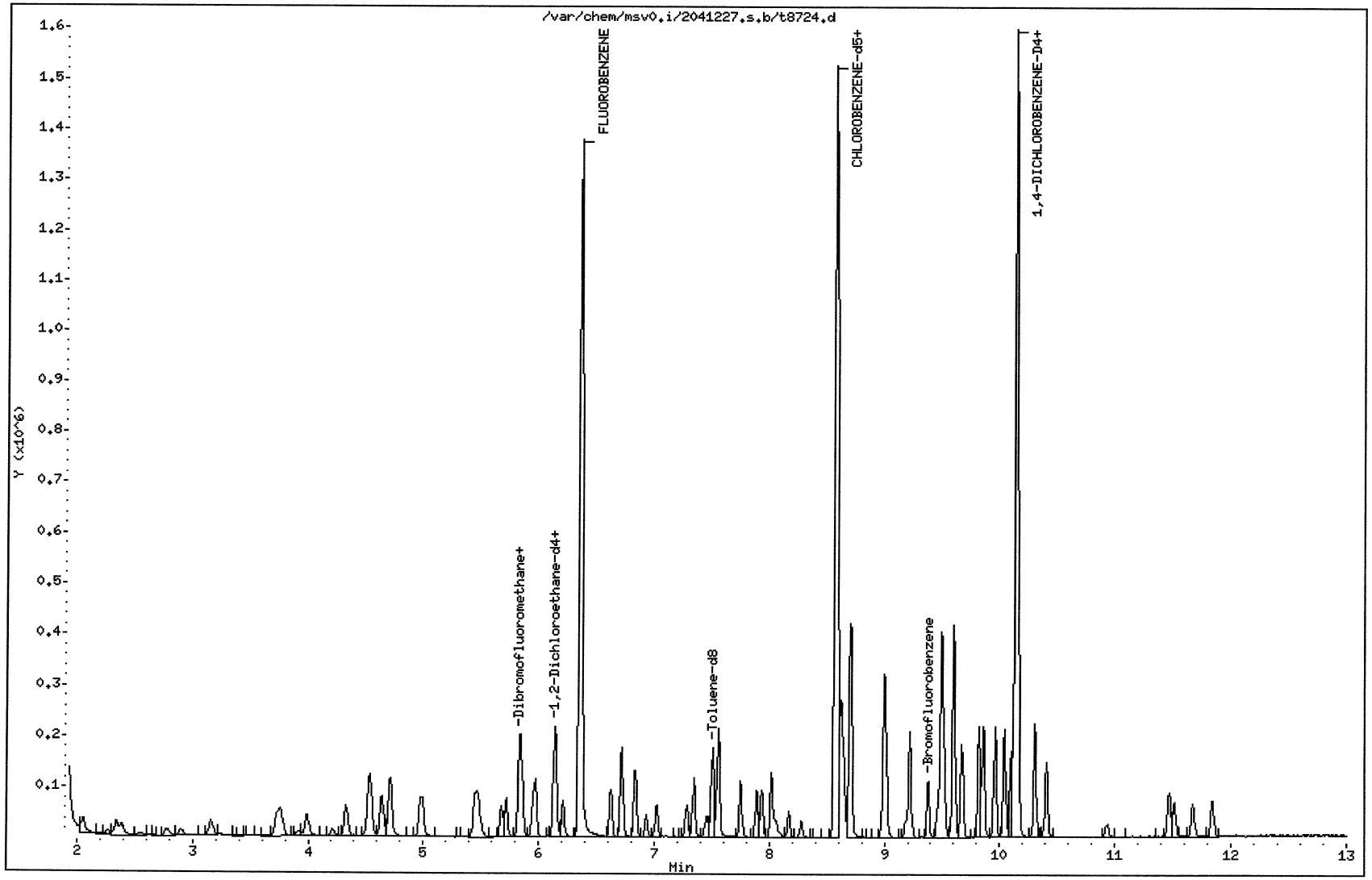
QC Flag Legend

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/msv0.i/2041227.s.b/t8724.d
Date : 27-DEC-2004 13:07
Client ID: V2STD005
Sample Info: 1201*V2STD005*5-21-3
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

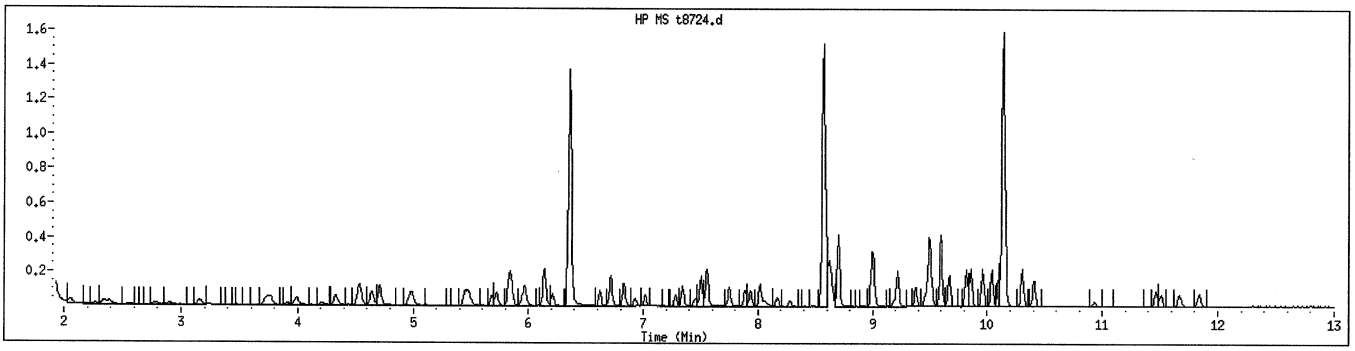
Operator: MEF
Column diameter: 0.53



Data file : /var/chem/msv0.i/2041227.s.b/t8724.d
Report Date: 12/27/2004 15:02

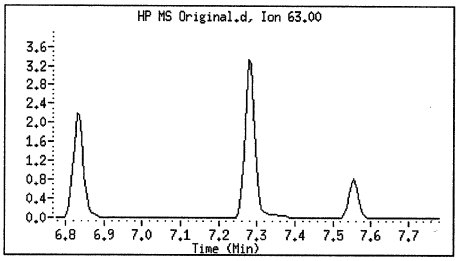
MANUAL INTEGRATION GRAPHIC REPORT

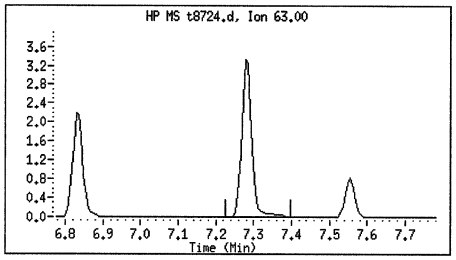
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 27-DEC-2004 13:07	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 1201*V2STD005*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

56 2-Chloroethyl vinyl ether CAS#: 110-75-8





GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8725.d
Lab Smp Id: 1202 Client Smp ID: V2STD020
Inj Date : 27-DEC-2004 13:29
Operator : MEF Inst ID: msv0.i
Smp Info : 1202*V2STD020*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:02 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 13:29 Cal File: t8725.d
Als bottle: 3 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/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	2.051	2.051	(0.323)	128793	20.0000	20.3	
2 Chloromethane ++	50	2.263	2.263	(0.356)	61206	20.0000	16.6	
3 Vinyl Chloride +	62	2.382	2.382	(0.375)	111863	20.0000	19.8	
5 Bromomethane	94	2.772	2.772	(0.436)	50079	20.0000	22.6	
6 Chloroethane	64	2.891	2.891	(0.455)	59661	20.0000	20.6	
7 Trichlorofluoromethane	101	3.155	3.155	(0.497)	139630	20.0000	20.2	
9 Acrolein	56	3.737	3.737	(0.588)	63441	100.000	97.5	
10 1,1,2Trichlotrifluoroethane	101	3.724	3.724	(0.586)	76046	20.0000	21.0	
11 1,1-Dichloroethene +	96	3.763	3.763	(0.592)	62083	20.0000	20.5	
12 Acetone	43	3.909	3.909	(0.615)	58079	20.0000	18.8	
13 Methyl Iodide	142	3.955	3.955	(0.622)	34486	20.0000	20.0	
14 Carbon Disulfide	76	3.988	3.988	(0.628)	235206	20.0000	19.0	
17 Methylene Chloride	49	4.325	4.325	(0.681)	186054	20.0000	19.9	
19 trans-1,2-Dichloroethene	61	4.543	4.543	(0.715)	168905	20.0000	19.4	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.206	4.206	(0.662)	82816	20.0000	19.0	2632(H)
	21 MTBE	73	4.524	4.524	(0.712)	276516	20.0000	19.3	4808
	22 Acrylonitrile	53	4.636	4.636	(0.730)	287150	100.000	102	
	23 Hexane	57	4.709	4.709	(0.741)	202687	20.0000	21.6	2881
	24 1,1-Dichloroethane ++	63	4.973	4.973	(0.783)	249036	20.0000	20.4	
	25 Vinyl Acetate	43	4.993	4.993	(0.786)	372789	20.0000	21.2	
	31 2,2-Dichloropropane	77	5.449	5.449	(0.857)	164483	20.0000	20.2	
	30 cis-1,2-Dichloroethene	61	5.475	5.475	(0.862)	231242	20.0000	20.5	
	32 2-Butanone	43	5.502	5.502	(0.866)	102395	20.0000	19.1	
	34 Bromochloromethane	128	5.680	5.680	(0.894)	48236	20.0000	20.5	
$	36 Dibromofluoromethane	111	5.859	5.859	(0.922)	93501	20.0000	19.9	5243
	37 1,1,1-Trichloroethane	97	5.846	5.846	(0.920)	155697	20.0000	20.3	
	38 Cyclohexane	56	5.832	5.832	(0.918)	271304	20.0000	21.2	4578
	39 Carbon Tetrachloride	117	5.945	5.945	(0.936)	109757	20.0000	20.2	
	41 Chloroform +	83	5.720	5.720	(0.900)	197291	20.0000	20.3	
	42 1,1-Dichloropropene	75	5.971	5.971	(0.940)	166188	20.0000	20.4	
$	43 1,2-Dichloroethane-d4	67	6.150	6.150	(0.968)	75895	20.0000	20.1	
	44 Benzene	78	6.136	6.136	(0.966)	515273	20.0000	20.2	
	46 1,2-Dichloroethane	62	6.209	6.209	(0.977)	198805	20.0000	20.2	
*	47 FLUOROBENZENE	96	6.355	6.355	(1.000)	999432	50.0000		
M	48 Total 1,2-Dichloroethene	61				400147	40.0000	39.9	
	49 Trichloroethene	130	6.626	6.626	(1.043)	97294	20.0000	19.5	
	50 Methyl Cyclohexane	83	6.718	6.718	(1.057)	202679	20.0000	20.6	6348
	51 1,2-Dichloropropane +	63	6.831	6.831	(1.075)	160615	20.0000	20.0	
	52 Dibromomethane	93	6.930	6.930	(1.091)	67993	20.0000	19.9	
	54 Bromodichloromethane	83	7.022	7.022	(1.105)	151699	20.0000	20.2	
	56 2-Chloroethyl vinyl ether	63	7.280	7.280	(1.146)	245617	20.0000	20.0	
	57 1-Bromr-2-chloroethana	144	7.280	7.280	(1.146)	17344	20.0000	19.8	2471
	58 cis-1,3-Dichloropropene	75	7.340	7.340	(1.155)	224807	20.0000	20.0	
	59 4-methyl-2-pentanone	43	7.439	7.439	(1.171)	207471	20.0000	19.2	
$	60 Toluene-d8	98	7.505	7.505	(0.876)	362758	20.0000	19.1	
	61 Toluene +	91	7.551	7.551	(0.881)	515875	20.0000	19.6	
	62 trans-1,3-Dichloropropene	75	7.749	7.749	(0.904)	208747	20.0000	19.4	
	65 1,1,2-Trichloroethane	97	7.888	7.888	(0.921)	100365	20.0000	19.4	
	66 Tetrachloroethene	164	7.934	7.934	(0.926)	76380	20.0000	19.2	
	67 1,3-Dichloropropane	76	8.020	8.020	(0.936)	230613	20.0000	19.7	
	68 2-Hexanone	43	8.040	8.040	(0.938)	147104	20.0000	18.9	
	69 Dibromochloromethane	129	8.166	8.166	(0.953)	98920	20.0000	19.1	
	70 1,2-Dibromoethane(EDB)	107	8.278	8.278	(0.966)	98552	20.0000	19.3	
*	71 CHLOROBENZENE-d5	82	8.569	8.569	(1.000)	506525	50.0000		
	72 Chlorobenzene ++	112	8.596	8.596	(1.003)	304263	20.0000	19.3	
	73 Ethylbenzene +	106	8.622	8.622	(1.006)	160783	20.0000	19.5	
	74 1,1,1,2-Tetrachloroethane	133	8.642	8.642	(1.008)	91041	20.0000	19.6	
	75 p,m-Xylene	106	8.701	8.701	(1.015)	421937	40.0000	40.3	
	76 o-Xylene	106	8.992	8.992	(1.049)	206754	20.0000	20.4	
	77 Styrene	104	9.005	9.005	(1.051)	369084	20.0000	19.9	
	78 Bromoform ++	173	9.190	9.190	(1.073)	60196	20.0000	18.8	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.217	9.217	(1.076)	522576	20.0000	20.0	
$	80 Bromofluorobenzene	174	9.376	9.376	(1.094)	101700	20.0000	18.5	
	81 1,1,2,2-Tetrachloroethane++	83	9.461	9.461	(0.933)	154560	20.0000	19.7	
	84 Bromobenzene	77	9.495	9.495	(0.937)	347547	20.0000	20.4	
	83 trans-1,4-Dichloro-2-Butene	53	9.501	9.501	(0.937)	53445	20.0000	20.3	
	85 1,2,3-Trichloropropane	75	9.514	9.514	(0.939)	203473	20.0000	20.2	
	86 n-Propylbenzene	91	9.495	9.495	(0.937)	739938	20.0000	20.7	
	87 2-Chlorotoluene	91	9.600	9.600	(0.947)	471601	20.0000	20.3	
	88 1,3,5-Trimethylbenzene	105	9.600	9.600	(0.947)	449801	20.0000	20.7	
	90 4-Chlorotoluene	91	9.666	9.666	(0.954)	444872	20.0000	20.2	
	91 tert-butylbenzene	91	9.818	9.818	(0.969)	326044	20.0000	20.4	
	92 p-Isopropyltoluene	119	10.037	10.037	(0.990)	474470	20.0000	21.0	
	93 1,2,4-Trimethylbenzene	105	9.858	9.858	(0.973)	464255	20.0000	20.3	
	94 sec-Butylbenzene	105	9.957	9.957	(0.982)	604470	20.0000	20.4	
	96 1,3-Dichlorobenzene	146	10.096	10.096	(0.996)	233116	20.0000	19.8	
*	97 1,4-DICHLOROBENZENE-D4	152	10.136	10.136	(1.000)	362743	50.0000		
	98 1,4-Dichlorobenzene	146	10.156	10.156	(1.002)	245845	20.0000	19.9	
M	99 TOTAL XYLENE	106				628691	60.0000	60.7	
	100 n-Butylbenzene	91	10.301	10.301	(1.016)	523262	20.0000	20.8	
	102 1,2-Dichlorobenzene	146	10.407	10.407	(1.027)	222733	20.0000	19.7	
	106 1,2-Dibromo-3-Chloropropane	157	10.929	10.929	(1.078)	22104	20.0000	19.4	
	108 1,2,4-Trichlorobenzene	180	11.464	11.464	(1.131)	128540	20.0000	18.8	
	109 Hexachlorobutadiene	225	11.511	11.511	(1.136)	59969	20.0000	19.3	
	110 Naphthalene	128	11.669	11.669	(1.151)	309604	20.0000	20.4	
	111 1,2,3-Trichlorobenzene	180	11.841	11.841	(1.168)	115395	20.0000	18.8	

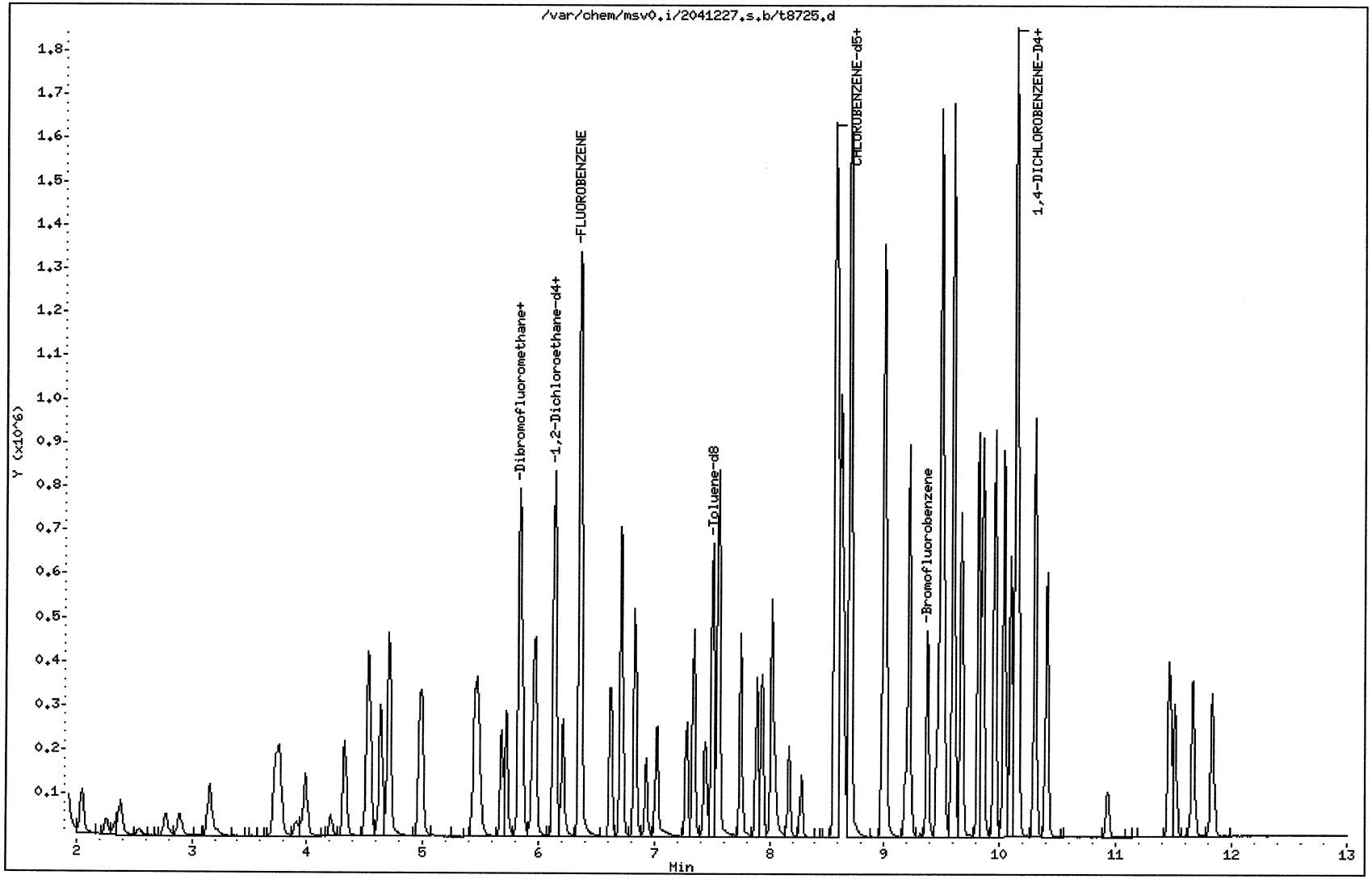
QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2041227.s.b/t8725.d
Date : 27-DEC-2004 13:29
Client ID: V2STD020
Sample Info: 1202*V2STD020*5-21-3
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: MEF
Column diameter: 0.53

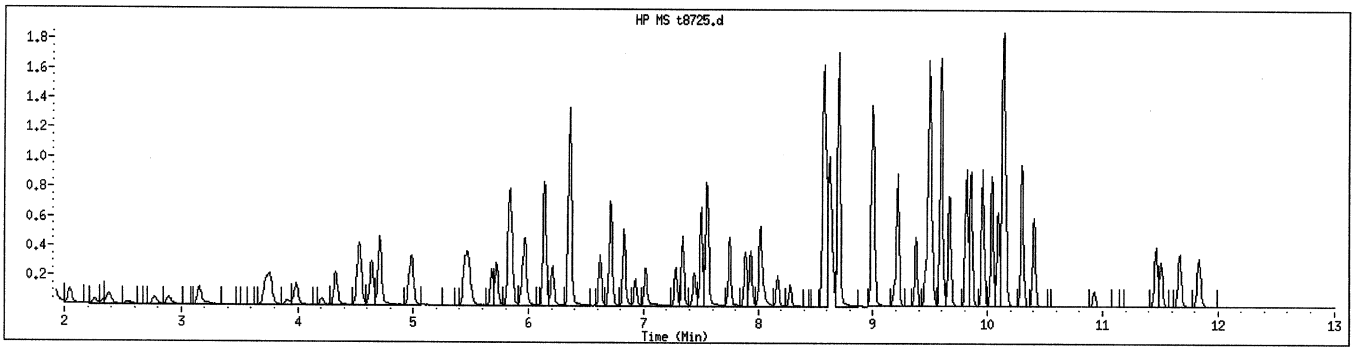


000071

Data file : /var/chem/msv0.i/2041227.s.b/t8725.d
Report Date: 12/27/2004 15:02

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 27-DEC-2004 13:29	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 1202*V2STD020*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8726.d
Lab Smp Id: 1203 Client Smp ID: V2STD050
Inj Date : 27-DEC-2004 13:51
Operator : RJO Inst ID: msv0.i
Smp Info : 1203*V2STD050*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:02 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 13:51 Cal File: t8726.d
Als bottle: 4 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/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)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.042	2.042	(0.321)	323636	50.0000	49.2	
2 Chloromethane ++	50	2.260	2.260	(0.355)	180747	50.0000	47.3	
3 Vinyl Chloride +	62	2.379	2.379	(0.374)	291563	50.0000	49.7	
5 Bromomethane	94	2.763	2.763	(0.434)	112549	50.0000	49.0	
6 Chloroethane	64	2.888	2.888	(0.454)	154137	50.0000	51.4	
7 Trichlorofluoromethane	101	3.153	3.153	(0.496)	357763	50.0000	49.9	
9 Acrolein	56	3.735	3.735	(0.587)	179878	250.000	267	(A)
10 1,1,2Trichlotrifluoroethane	101	3.715	3.715	(0.584)	192595	50.0000	51.2	
11 1,1-Dichloroethene +	96	3.761	3.761	(0.591)	161837	50.0000	51.5	
12 Acetone	43	3.906	3.906	(0.614)	147151	50.0000	51.5	
13 Methyl Iodide	142	3.953	3.953	(0.622)	104440	50.0000	58.3	
14 Carbon Disulfide	76	3.986	3.986	(0.627)	661862	50.0000	51.5	
17 Methylene Chloride	49	4.323	4.323	(0.680)	528464	50.0000	54.4	
19 trans-1,2-Dichloroethene	61	4.541	4.541	(0.714)	483831	50.0000	53.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.204	4.204	(0.661)	233115	50.0000	51.6	2284(H)
	21 MTBE	73	4.521	4.521	(0.711)	804449	50.0000	54.1	4761
	22 Acrylonitrile	53	4.634	4.634	(0.729)	777812	250.000	267	(A)
	23 Hexane	57	4.706	4.706	(0.740)	520746	50.0000	53.5	2877
	24 1,1-Dichloroethane ++	63	4.971	4.971	(0.782)	665554	50.0000	52.5	
	25 Vinyl Acetate	43	4.990	4.990	(0.785)	1000809	50.0000	54.8	
	31 2,2-Dichloropropane	77	5.447	5.447	(0.857)	433257	50.0000	51.3	
	30 cis-1,2-Dichloroethene	61	5.473	5.473	(0.861)	602714	50.0000	51.6	
	32 2-Butanone	43	5.499	5.499	(0.865)	276492	50.0000	49.6	
	34 Bromochloromethane	128	5.678	5.678	(0.893)	125272	50.0000	51.3	
$	36 Dibromofluoromethane	111	5.856	5.856	(0.921)	255093	50.0000	52.2	5224
	37 1,1,1-Trichloroethane	97	5.843	5.843	(0.919)	399147	50.0000	50.1	
	38 Cyclohexane	56	5.830	5.830	(0.917)	692031	50.0000	52.2	4514
	39 Carbon Tetrachloride	117	5.949	5.949	(0.936)	286777	50.0000	50.9	
	41 Chloroform +	83	5.724	5.724	(0.900)	504146	50.0000	50.1	
	42 1,1-Dichloropropene	75	5.969	5.969	(0.939)	439483	50.0000	51.9	
$	43 1,2-Dichloroethane-d4	67	6.147	6.147	(0.967)	201782	50.0000	51.6	
	44 Benzene	78	6.134	6.134	(0.965)	1350876	50.0000	51.2	
	46 1,2-Dichloroethane	62	6.207	6.207	(0.976)	510523	50.0000	50.1	
*	47 FLUOROBENZENE	96	6.359	6.359	(1.000)	1036601	50.0000		
M	48 Total 1,2-Dichloroethene	61				1086545	100.000	105	
	49 Trichloroethene	130	6.623	6.623	(1.042)	261321	50.0000	50.5	
	50 Methyl Cyclohexane	83	6.716	6.716	(1.056)	543250	50.0000	53.2	6367
	51 1,2-Dichloropropane +	63	6.828	6.828	(1.074)	431200	50.0000	51.7	
	52 Dibromomethane	93	6.927	6.927	(1.089)	181997	50.0000	51.3	
	54 Bromodichloromethane	83	7.020	7.020	(1.104)	395572	50.0000	50.9	
	56 2-Chloroethyl vinyl ether	63	7.278	7.278	(1.144)	651764	50.0000	51.2	
	57 1-Bromr-2-chloroethana	144	7.278	7.278	(1.144)	46202	50.0000	50.8	2427
	58 cis-1,3-Dichloropropene	75	7.344	7.344	(1.155)	599665	50.0000	51.5	
	59 4-methyl-2-pentanone	43	7.430	7.430	(1.168)	586351	50.0000	52.3	
$	60 Toluene-d8	98	7.502	7.502	(0.875)	1004061	50.0000	52.9	
	61 Toluene +	91	7.555	7.555	(0.881)	1359970	50.0000	51.7	
	62 trans-1,3-Dichloropropene	75	7.747	7.747	(0.904)	564869	50.0000	52.6	
	65 1,1,2-Trichloroethane	97	7.886	7.886	(0.920)	271288	50.0000	52.4	
	66 Tetrachloroethene	164	7.939	7.939	(0.926)	204183	50.0000	51.5	
	67 1,3-Dichloropropane	76	8.018	8.018	(0.935)	613047	50.0000	52.5	
	68 2-Hexanone	43	8.025	8.025	(0.936)	418833	50.0000	54.0	
	69 Dibromochloromethane	129	8.170	8.170	(0.953)	268797	50.0000	51.9	
	70 1,2-Dibromoethane(EDB)	107	8.276	8.276	(0.965)	266208	50.0000	52.1	
*	71 CHLOROBENZENE-d5	82	8.573	8.573	(1.000)	505759	50.0000		
	72 Chlorobenzene ++	112	8.593	8.593	(1.002)	800838	50.0000	50.8	
	73 Ethylbenzene +	106	8.620	8.620	(1.005)	430472	50.0000	52.3	
	74 1,1,1,2-Tetrachloroethane	133	8.646	8.646	(1.008)	238658	50.0000	51.5	
	75 p,m-Xylene	106	8.706	8.706	(1.015)	1099270	100.000	105	
	76 o-Xylene	106	8.990	8.990	(1.049)	539972	50.0000	53.4	
	77 Styrene	104	9.010	9.010	(1.051)	991830	50.0000	53.6	
	78 Bromoform ++	173	9.188	9.188	(1.072)	165900	50.0000	52.0	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.221	9.221	(1.076)	1380845	50.0000	52.8	
$	80 Bromofluorobenzene	174	9.380	9.380	(1.094)	283676	50.0000	51.6	
	81 1,1,2,2-Tetrachloroethane++	83	9.466	9.466	(0.934)	415589	50.0000	50.2	
	84 Bromobenzene	77	9.492	9.492	(0.936)	921068	50.0000	51.2	
	83 trans-1,4-Dichloro-2-Butene	53	9.505	9.505	(0.937)	146755	50.0000	53.0	
	85 1,2,3-Trichloropropane	75	9.512	9.512	(0.938)	541875	50.0000	51.0	
	86 n-Propylbenzene	91	9.492	9.492	(0.936)	1963255	50.0000	52.1	
	87 2-Chlorotoluene	91	9.598	9.598	(0.947)	1257397	50.0000	51.4	
	88 1,3,5-Trimethylbenzene	105	9.598	9.598	(0.947)	1187261	50.0000	51.9	
	90 4-Chlorotoluene	91	9.671	9.671	(0.954)	1186564	50.0000	51.2	
	91 tert-butylbenzene	91	9.816	9.816	(0.968)	860870	50.0000	51.0	
	92 p-Isopropyltoluene	119	10.041	10.041	(0.990)	1230079	50.0000	51.7	
	93 1,2,4-Trimethylbenzene	105	9.856	9.856	(0.972)	1232293	50.0000	51.1	
	94 sec-Butylbenzene	105	9.961	9.961	(0.982)	1595755	50.0000	51.1	
	96 1,3-Dichlorobenzene	146	10.094	10.094	(0.995)	627806	50.0000	50.6	
*	97 1,4-DICHLOROBENZENE-D4	152	10.140	10.140	(1.000)	382473	50.0000		
	98 1,4-Dichlorobenzene	146	10.153	10.153	(1.001)	647091	50.0000	49.6	
M	99 TOTAL XYLENE	106				1639242	150.000	159	
	100 n-Butylbenzene	91	10.305	10.305	(1.016)	1386500	50.0000	52.2	
	102 1,2-Dichlorobenzene	146	10.404	10.404	(1.026)	591581	50.0000	49.7	
	106 1,2-Dibromo-3-Chloropropane	157	10.933	10.933	(1.078)	63527	50.0000	52.9	
	108 1,2,4-Trichlorobenzene	180	11.462	11.462	(1.130)	363547	50.0000	50.4	
	109 Hexachlorobutadiene	225	11.508	11.508	(1.135)	161177	50.0000	49.2	
	110 Naphthalene	128	11.667	11.667	(1.151)	951731	50.0000	49.0	
	111 1,2,3-Trichlorobenzene	180	11.839	11.839	(1.168)	330288	50.0000	50.9	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2041227.s.b/t8726.d

Date : 27-DEC-2004 13:51

Client ID: V2STD050

Sample Info: 1203*V2STD050*5-21-3

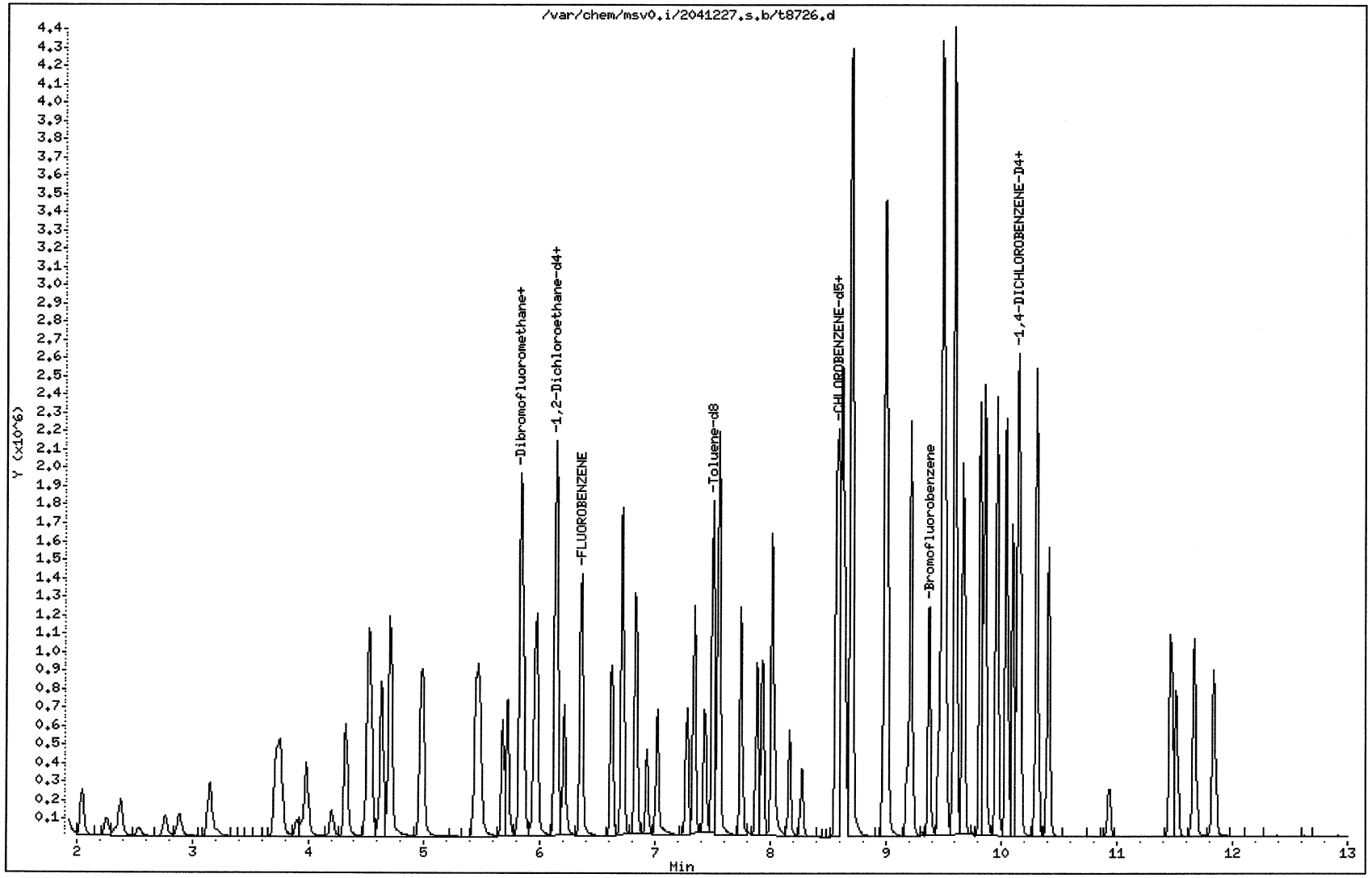
Purge Volume: 5.0

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RJO

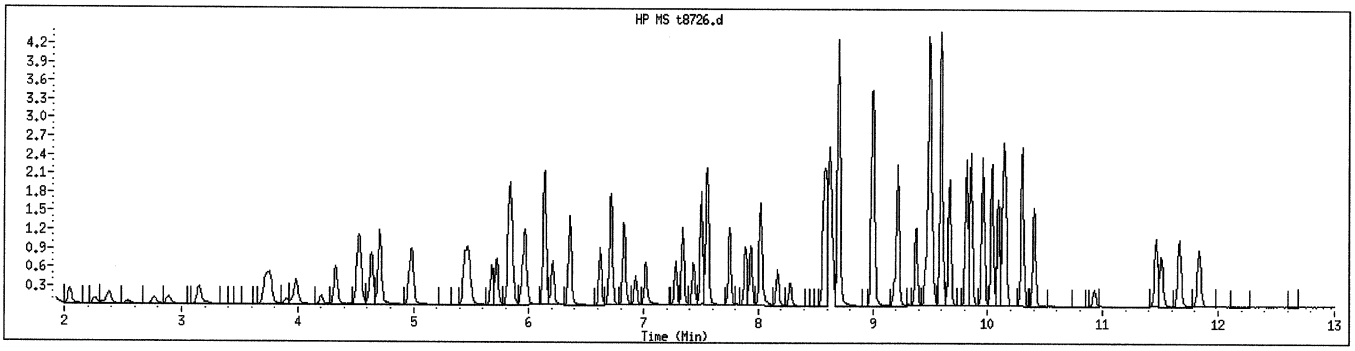
Column diameter: 0.53



Data file : /var/chem/msv0.i/2041227.s.b/t8726.d
Report Date: 12/27/2004 15:02

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 27-DEC-2004 13:51	Instrument	: msv0.i
Operator	: RJO		
Sample Info	: 1203*V2STD050*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8727.d
Lab Smp Id: 1204 Client Smp ID: V2STD100
Inj Date : 27-DEC-2004 14:14
Operator : MEF Inst ID: msv0.i
Smp Info : 1204*V2STD100*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:02 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 14:14 Cal File: t8727.d
Als bottle: 5 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/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)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.048	2.048	(1.000)	670806	100.000	99.0	
2 Chloromethane ++	50	2.259	2.259	(1.000)	376722	100.000	95.7	
3 Vinyl Chloride +	62	2.385	2.385	(1.000)	611379	100.000	101	
5 Bromomethane	94	2.768	2.768	(1.000)	218691	100.000	92.6	
6 Chloroethane	64	2.887	2.887	(1.000)	303095	100.000	98.1	
7 Trichlorofluoromethane	101	3.158	3.158	(1.000)	728217	100.000	98.7	
9 Acrolein	56	3.740	3.740	(1.000)	338351	500.000	487	(A)
10 1,1,2Trichlotrifluoroethane	101	3.720	3.720	(1.000)	393469	100.000	102	
11 1,1-Dichloroethene +	96	3.766	3.766	(1.000)	332725	100.000	103	
12 Acetone	43	3.905	3.905	(1.000)	288997	100.000	102	
13 Methyl Iodide	142	3.958	3.958	(1.000)	269796	100.000	146	
14 Carbon Disulfide	76	3.991	3.991	(1.000)	1321817	100.000	99.9	
17 Methylene Chloride	49	4.328	4.328	(1.000)	1014714	100.000	102	
19 trans-1,2-Dichloroethene	61	4.540	4.540	(1.000)	939080	100.000	101	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.203	4.203	(1.000)	437663	100.000	94.2	2398(H)
	21 MTBE	73	4.520	4.520	(1.000)	1624635	100.000	106	4573
	22 Acrylonitrile	53	4.632	4.632	(1.000)	1382673	500.000	462	(A)
	23 Hexane	57	4.712	4.712	(1.000)	1028613	100.000	103	2845
	24 1,1-Dichloroethane ++	63	4.970	4.970	(1.000)	1299750	100.000	99.5	
	25 Vinyl Acetate	43	4.989	4.989	(1.000)	1837117	100.000	97.8	
	31 2,2-Dichloropropane	77	5.446	5.446	(1.000)	860126	100.000	98.9	
	30 cis-1,2-Dichloroethene	61	5.472	5.472	(1.000)	1187016	100.000	98.7	
	32 2-Butanone	43	5.498	5.498	(1.000)	532976	100.000	92.9	
	34 Bromochloromethane	128	5.677	5.677	(1.000)	246403	100.000	98.0	
$	36 Dibromofluoromethane	111	5.855	5.855	(1.000)	493114	100.000	98.1	5198
	37 1,1,1-Trichloroethane	97	5.842	5.842	(1.000)	801282	100.000	97.7	
	38 Cyclohexane	56	5.829	5.829	(1.000)	1360247	100.000	99.8	4477
	39 Carbon Tetrachloride	117	5.948	5.948	(1.000)	570586	100.000	98.4	
	41 Chloroform +	83	5.723	5.723	(1.000)	1002099	100.000	96.8	
	42 1,1-Dichloropropene	75	5.974	5.974	(1.000)	852741	100.000	97.9	
$	43 1,2-Dichloroethane-d4	67	6.146	6.146	(1.000)	389423	100.000	96.7	
	44 Benzene	78	6.140	6.140	(1.000)	2637346	100.000	97.1	
	46 1,2-Dichloroethane	62	6.206	6.206	(1.000)	1012537	100.000	96.5	
*	47 FLUOROBENZENE	96	6.358	6.358	(1.000)	1067107	50.0000		(M)
M	48 Total 1,2-Dichloroethene	61				2126096	200.000	200	
	49 Trichloroethene	130	6.622	6.622	(1.000)	535714	100.000	101	
	50 Methyl Cyclohexane	83	6.715	6.715	(1.000)	1083101	100.000	103	6366
	51 1,2-Dichloropropane +	63	6.834	6.834	(1.000)	855463	100.000	99.6	
	52 Dibromomethane	93	6.926	6.926	(1.000)	362474	100.000	99.3	
	54 Bromodichloromethane	83	7.019	7.019	(1.000)	809436	100.000	101	
	56 2-Chloroethyl vinyl ether	63	7.277	7.277	(1.000)	1302534	100.000	99.3	
	57 1-Bromr-2-chloroethana	144	7.283	7.283	(1.000)	95128	100.000	102	2411
	58 cis-1,3-Dichloropropene	75	7.343	7.343	(1.000)	1216421	100.000	101	
	59 4-methyl-2-pentanone	43	7.429	7.429	(1.000)	1153279	100.000	99.9	
$	60 Toluene-d8	98	7.508	7.508	(0.876)	1992019	100.000	101	
	61 Toluene +	91	7.554	7.554	(0.881)	2756477	100.000	101	
	62 trans-1,3-Dichloropropene	75	7.746	7.746	(0.904)	1148156	100.000	103	
	65 1,1,2-Trichloroethane	97	7.891	7.891	(0.921)	532333	100.000	98.7	
	66 Tetrachloroethene	164	7.938	7.938	(0.926)	416645	100.000	101	
	67 1,3-Dichloropropane	76	8.017	8.017	(0.935)	1230500	100.000	101	
	68 2-Hexanone	43	8.024	8.024	(0.936)	815467	100.000	101	
	69 Dibromochloromethane	129	8.169	8.169	(0.953)	548698	100.000	102	
	70 1,2-Dibromoethane(EDB)	107	8.281	8.281	(0.966)	545996	100.000	103	
*	71 CHLOROBENZENE-d5	82	8.572	8.572	(1.000)	526804	50.0000		
	72 Chlorobenzene ++	112	8.592	8.592	(1.002)	1611701	100.000	98.1	
	73 Ethylbenzene +	106	8.625	8.625	(1.006)	865622	100.000	101	
	74 1,1,1,2-Tetrachloroethane	133	8.645	8.645	(1.008)	491674	100.000	102	
	75 p,m-Xylene	106	8.704	8.704	(1.015)	2169782	200.000	199	
	76 o-Xylene	106	8.989	8.989	(1.049)	1085513	100.000	103	
	77 Styrene	104	9.009	9.009	(1.051)	2025224	100.000	105	
	78 Bromoform ++	173	9.187	9.187	(1.072)	345970	100.000	104	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.220	9.220	(1.076)	2860440	100.000	105	
$	80 Bromofluorobenzene	174	9.379	9.379	(1.094)	588954	100.000	103	
	81 1,1,2,2-Tetrachloroethane++	83	9.465	9.465	(0.933)	833293	100.000	95.9	
	84 Bromobenzene	77	9.498	9.498	(0.937)	1831815	100.000	97.1	
	83 trans-1,4-Dichloro-2-Butene	53	9.504	9.504	(0.937)	287470	100.000	98.9	
	85 1,2,3-Trichloropropane	75	9.518	9.518	(0.939)	1077581	100.000	96.6	
	86 n-Propylbenzene	91	9.491	9.491	(0.936)	3941254	100.000	99.7	
	87 2-Chlorotoluene	91	9.597	9.597	(0.947)	2506129	100.000	97.6	
	88 1,3,5-Trimethylbenzene	105	9.603	9.603	(0.947)	2401814	100.000	100	
	90 4-Chlorotoluene	91	9.670	9.670	(0.954)	2432806	100.000	100	
	91 tert-butylbenzene	91	9.815	9.815	(0.968)	1787730	100.000	101	
	92 p-Isopropyltoluene	119	10.040	10.040	(0.990)	2591575	100.000	104	
	93 1,2,4-Trimethylbenzene	105	9.855	9.855	(0.972)	2526518	100.000	99.8	
	94 sec-Butylbenzene	105	9.960	9.960	(0.982)	3294163	100.000	101	
	96 1,3-Dichlorobenzene	146	10.093	10.093	(0.995)	1296256	100.000	99.5	
*	97 1,4-DICHLOROBENZENE-D4	152	10.139	10.139	(1.000)	401344	50.0000		
	98 1,4-Dichlorobenzene	146	10.152	10.152	(1.001)	1346240	100.000	98.4	
M	99 TOTAL XYLENE	106				3255295	300.000	302	
	100 n-Butylbenzene	91	10.304	10.304	(1.016)	2945351	100.000	106	
	102 1,2-Dichlorobenzene	146	10.403	10.403	(1.026)	1244214	100.000	99.7	
	106 1,2-Dibromo-3-Chloropropane	157	10.932	10.932	(1.078)	133776	100.000	106	
	108 1,2,4-Trichlorobenzene	180	11.461	11.461	(1.130)	815443	100.000	108	
	109 Hexachlorobutadiene	225	11.507	11.507	(1.135)	359189	100.000	105	
	110 Naphthalene	128	11.666	11.666	(1.151)	2044815	100.000	94.7	
	111 1,2,3-Trichlorobenzene	180	11.838	11.838	(1.168)	730902	100.000	107	

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.

Data File: /var/chem/msv0.i/2041227.s.b/t8727.d

Date : 27-DEC-2004 14:14

Client ID: V2STD100

Instrument: msv0.i

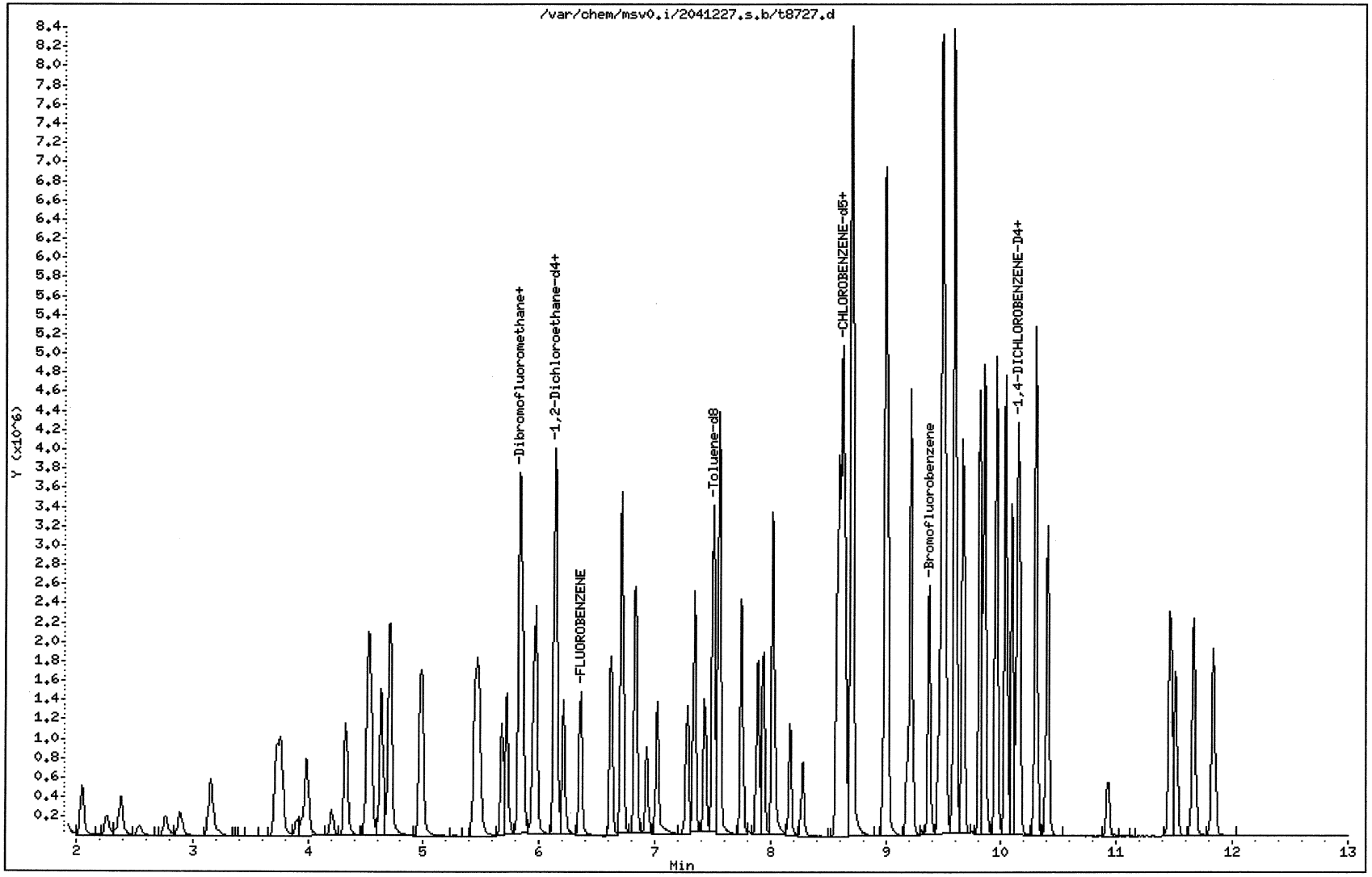
Sample Info: 1204*V2STD100*5-21-3

Purge Volume: 5.0

Operator: MEF

Column phase: DB-624-30M

Column diameter: 0.53

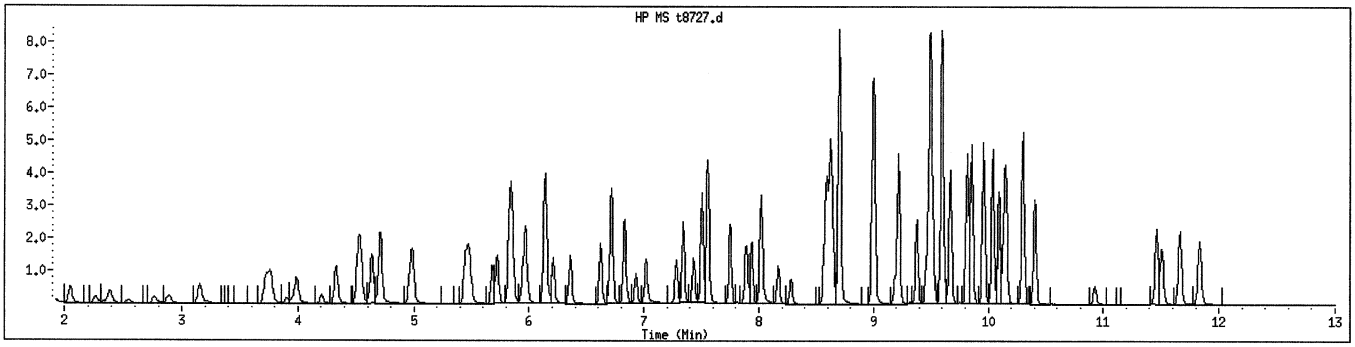


000081

Data file : /var/chem/msv0.i/2041227.s.b/t8727.d
Report Date: 12/27/2004 15:02

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 27-DEC-2004 14:14	Instrument	: msv0.i
Operator	: MEF		
Sample Info	: 1204*V2STD100*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

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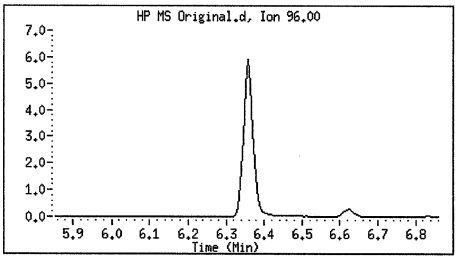
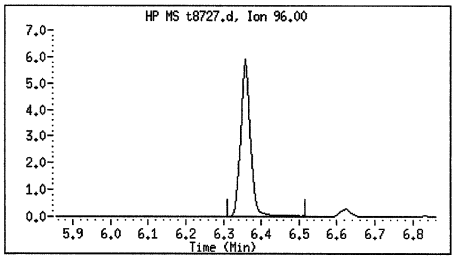
* 47 FLUOROBENZENE CAS#: 462-06-6





GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8728.d
Lab Smp Id: 1205 Client Smp ID: V2STD200
Inj Date : 27-DEC-2004 14:36
Operator : RJO Inst ID: msv0.i
Smp Info : 1205*V2STD200*5-21-3
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 27-Dec-2004 15:45 mef Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 6 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/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)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.042	2.042	(1.000)	1406235	200.000	197	
2 Chloromethane ++	50	2.260	2.260	(1.000)	932152	200.000	225	(A)
3 Vinyl Chloride +	62	2.379	2.379	(1.000)	1326028	200.000	209	(A)
5 Bromomethane	94	2.756	2.756	(1.000)	403114	200.000	162	
6 Chloroethane	64	2.875	2.875	(1.000)	579517	200.000	178	
7 Trichlorofluoromethane	101	3.146	3.146	(1.000)	1461968	200.000	188	
9 Acrolein	56	3.734	3.734	(1.000)	718465	1000.00	982	(A)
10 1,1,2Trichlotrifluoroethane	101	3.715	3.715	(1.000)	757413	200.000	186	
11 1,1-Dichloroethene +	96	3.761	3.761	(1.000)	669148	200.000	196	
12 Acetone	43	3.900	3.900	(1.000)	584251	200.000	199	
13 Methyl Iodide	142	3.953	3.953	(1.000)	760860	200.000	391	(A)
14 Carbon Disulfide	76	3.986	3.986	(1.000)	2639442	200.000	189	
17 Methylene Chloride	49	4.323	4.323	(1.000)	1979738	200.000	188	
19 trans-1,2-Dichloroethene	61	4.541	4.541	(1.000)	1836927	200.000	187	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.204	4.204	(1.000)	879854	200.000	188	2550(H)
	21 MTBE	73	4.514	4.514	(1.000)	3330720	200.000	206	4259(A)
	22 Acrylonitrile	53	4.633	4.633	(1.000)	2982551	1000.00	945	(A)
	23 Hexane	57	4.706	4.706	(1.000)	1998152	200.000	189	2847
	24 1,1-Dichloroethane ++	63	4.971	4.971	(1.000)	2554135	200.000	186	
	25 Vinyl Acetate	43	4.990	4.990	(1.000)	4099164	200.000	207	(A)
	31 2,2-Dichloropropane	77	5.447	5.447	(1.000)	1775872	200.000	194	
	30 cis-1,2-Dichloroethene	61	5.473	5.473	(1.000)	2404052	200.000	190	
	32 2-Butanone	43	5.493	5.493	(1.000)	1112733	200.000	184	
	34 Bromochloromethane	128	5.678	5.678	(1.000)	493039	200.000	186	
$	36 Dibromofluoromethane	111	5.856	5.856	(1.000)	990902	200.000	187	5300
	37 1,1,1-Trichloroethane	97	5.843	5.843	(1.000)	1642167	200.000	190	
	38 Cyclohexane	56	5.830	5.830	(1.000)	2553146	200.000	178	4535
	39 Carbon Tetrachloride	117	5.949	5.949	(1.000)	1210375	200.000	198	
	41 Chloroform +	83	5.718	5.718	(1.000)	2054853	200.000	188	
	42 1,1-Dichloropropene	75	5.969	5.969	(1.000)	1803272	200.000	196	
$	43 1,2-Dichloroethane-d4	67	6.147	6.147	(1.000)	818971	200.000	193	
	44 Benzene	78	6.134	6.134	(1.000)	5359368	200.000	187	
	46 1,2-Dichloroethane	62	6.207	6.207	(1.000)	2114812	200.000	191	
*	47 FLUOROBENZENE	96	6.359	6.359	(1.000)	1124160	50.0000		(M)
M	48 Total 1,2-Dichloroethene	61				4240979	400.000	377	
	49 Trichloroethene	130	6.623	6.623	(1.000)	1122386	200.000	200	(A)
	50 Methyl Cyclohexane	83	6.716	6.716	(1.000)	2238294	200.000	202	6303(A)
	51 1,2-Dichloropropane +	63	6.828	6.828	(1.000)	1752972	200.000	194	
	52 Dibromomethane	93	6.927	6.927	(1.000)	767135	200.000	199	
	54 Bromodichloromethane	83	7.020	7.020	(1.000)	1695058	200.000	201	(A)
	56 2-Chloroethyl vinyl ether	63	7.278	7.278	(1.000)	2721274	200.000	197	
	57 1-Bromr-2-chloroethana	144	7.284	7.284	(1.000)	208851	200.000	212	2068
	58 cis-1,3-Dichloropropene	75	7.344	7.344	(1.000)	2589238	200.000	205	(A)
	59 4-methyl-2-pentanone	43	7.430	7.430	(1.000)	2568639	200.000	211	(A)
$	60 Toluene-d8	98	7.502	7.502	(0.875)	4223475	200.000	199	
	61 Toluene +	91	7.555	7.555	(0.881)	5793734	200.000	197	
	62 trans-1,3-Dichloropropene	75	7.747	7.747	(0.904)	2468994	200.000	205	(A)
	65 1,1,2-Trichloroethane	97	7.886	7.886	(0.920)	1165168	200.000	201	(A)
	66 Tetrachloroethene	164	7.939	7.939	(0.926)	924052	200.000	208	(A)
	67 1,3-Dichloropropane	76	8.018	8.018	(0.935)	2596025	200.000	199	
	68 2-Hexanone	43	8.018	8.018	(0.935)	1750251	200.000	202	(A)
	69 Dibromochloromethane	129	8.170	8.170	(0.953)	1208779	200.000	209	(A)
	70 1,2-Dibromoethane(EDB)	107	8.282	8.282	(0.966)	1195935	200.000	209	(A)
*	71 CHLOROBENZENE-d5	82	8.573	8.573	(1.000)	565792	50.0000		
	72 Chlorobenzene ++	112	8.593	8.593	(1.002)	3456908	200.000	196	
	73 Ethylbenzene +	106	8.626	8.626	(1.006)	1798408	200.000	195	
	74 1,1,1,2-Tetrachloroethane	133	8.646	8.646	(1.008)	1059059	200.000	204	(A)
	75 p,m-Xylene	106	8.705	8.705	(1.015)	4370105	400.000	373	(A)
	76 o-Xylene	106	8.990	8.990	(1.049)	2228592	200.000	197	
	77 Styrene	104	9.009	9.009	(1.051)	4169661	200.000	201	(A)
	78 Bromoform ++	173	9.188	9.188	(1.072)	810231	200.000	227	(A)

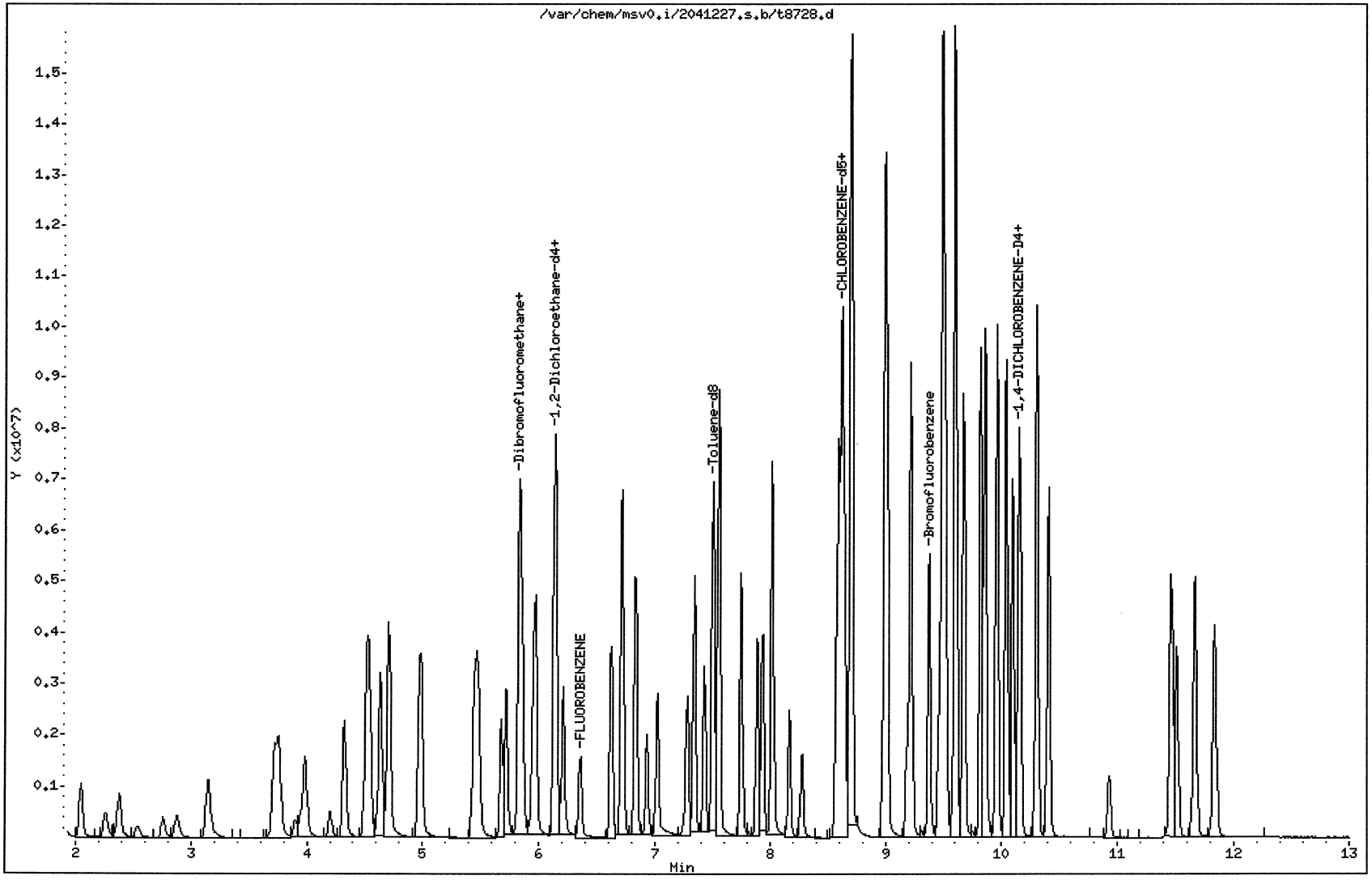
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.221	9.221	(1.076)	6037667	200.000	207	(A)
$	80 Bromofluorobenzene	174	9.380	9.380	(1.094)	1338060	200.000	217	(A)
	81 1,1,2,2-Tetrachloroethane++	83	9.466	9.466	(0.934)	1844553	200.000	195	
	84 Bromobenzene	77	9.499	9.499	(0.937)	3666262	200.000	179	
	83 trans-1,4-Dichloro-2-Butene	53	9.505	9.505	(0.937)	585683	200.000	185	
	85 1,2,3-Trichloropropane	75	9.518	9.518	(0.939)	2291191	200.000	189	
	86 n-Propylbenzene	91	9.492	9.492	(0.936)	7880053	200.000	183	
	87 2-Chlorotoluene	91	9.598	9.598	(0.947)	5117136	200.000	183	
	88 1,3,5-Trimethylbenzene	105	9.604	9.604	(0.947)	4893648	200.000	188	
	90 4-Chlorotoluene	91	9.671	9.671	(0.954)	5294919	200.000	200	(A)
	91 tert-butylbenzene	91	9.816	9.816	(0.968)	3819556	200.000	198	
	92 p-Isopropyltoluene	119	10.041	10.041	(0.990)	5429422	200.000	200	(A)
	93 1,2,4-Trimethylbenzene	105	9.856	9.856	(0.972)	5430870	200.000	197	
	94 sec-Butylbenzene	105	9.961	9.961	(0.982)	7038720	200.000	198	
	96 1,3-Dichlorobenzene	146	10.094	10.094	(0.995)	2849280	200.000	201	(A)
*	97 1,4-DICHLOROBENZENE-D4	152	10.140	10.140	(1.000)	436018	50.0000		
	98 1,4-Dichlorobenzene	146	10.153	10.153	(1.001)	2927990	200.000	197	
M	99 TOTAL XYLENE	106				6598697	600.000	571	
	100 n-Butylbenzene	91	10.305	10.305	(1.016)	6110730	200.000	202	(A)
	102 1,2-Dichlorobenzene	146	10.404	10.404	(1.026)	2803152	200.000	207	(A)
	106 1,2-Dibromo-3-Chloropropane	157	10.933	10.933	(1.078)	306684	200.000	224	(A)
	108 1,2,4-Trichlorobenzene	180	11.462	11.462	(1.130)	1895562	200.000	231	(A)
	109 Hexachlorobutadiene	225	11.508	11.508	(1.135)	824282	200.000	221	(A)
	110 Naphthalene	128	11.667	11.667	(1.151)	4908371	200.000	203	(A)
	111 1,2,3-Trichlorobenzene	180	11.839	11.839	(1.168)	1711057	200.000	231	(A)

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.

Data File: /var/chem/msv0.i/2041227.s.b/t8728.d
Date : 27-DEC-2004 14:36
Client ID: V2STD200
Sample Info: 1205*V2STD200*5-21-3
Purge Volume: 5.0
Column phase: DB-624-30M

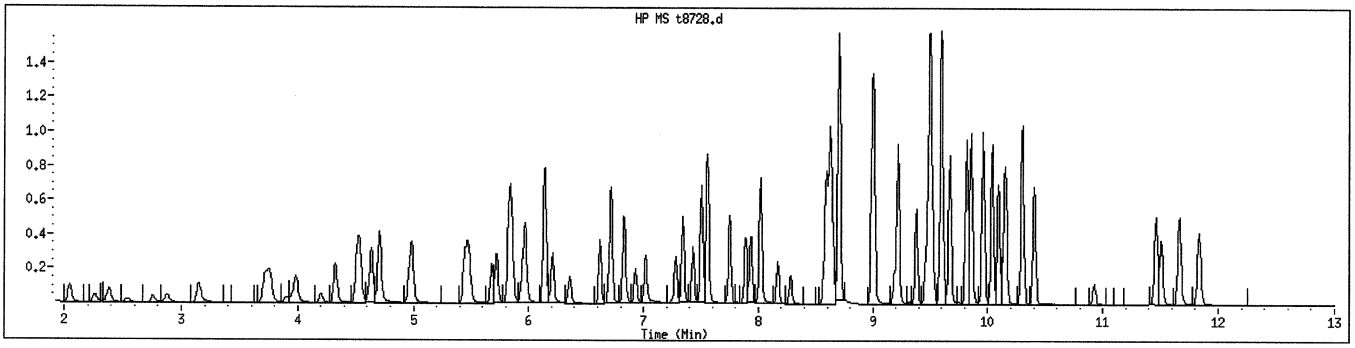
Instrument: msv0.i
Operator: RJO
Column diameter: 0.53



Data file : /var/chem/msv0.i/2041227.s.b/t8728.d
Report Date: 12/27/2004 15:46

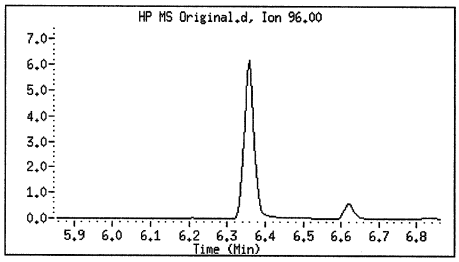
MANUAL INTEGRATION GRAPHIC REPORT

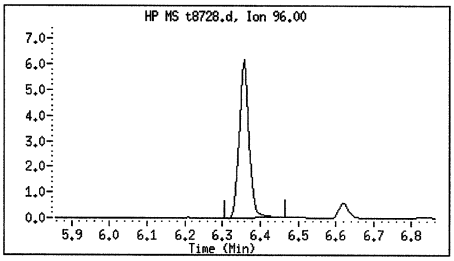
Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 27-DEC-2004 14:36	Instrument	: msv0.i
Operator	: RJO		
Sample Info	: 1205*V2STD200*5-21-3		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

* 47 FLUOROBENZENE CAS#: 462-06-6





Data file : /var/chem/msv0.i/2041227.s.b/t8730.d
Report Date: 01/11/2005 10:05

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Misc Info: MSV~5638~*1*MEF

Client SDG: 2041227.s
Fraction: VOA
Client Smp ID: V2ICV
Operator: RFS
Sample Type: ICV
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluoromethane	50.0	45.8	91.66	80-120
2	Chloromethane ++	50.0	49.9	99.73	80-120
3	Vinyl Chloride +	50.0	47.1	94.10	80-120
5	Bromomethane	50.0	46.5	92.96	80-120
6	Chloroethane	50.0	43.9	87.71	80-120
7	Trichlorofluoromethane	50.0	42.5	84.97	80-120
9	Acrolein	250	250	99.88	80-120
10	1,1,2Trichlotrifluoroethane	50.0	44.9	89.75	80-120
11	1,1-Dichloroethene +	50.0	46.5	93.02	80-120
12	Acetone	50.0	51.1	102.20	80-120
13	Methyl Iodide	50.0	80.7	161.32*	80-120
14	Carbon Disulfide	50.0	46.0	91.92	80-120
17	Methylene Chloride	50.0	41.1	82.30	80-120
19	trans-1,2-Dichloroethene	50.0	46.9	93.79	80-120
21	MTBE	50.0	52.0	104.05	80-120
22	Acrylonitrile	250	256	102.36	80-120
24	1,1-Dichloroethane ++	50.0	47.5	95.05	80-120
25	Vinyl Acetate	50.0	48.3	96.70	80-120
30	cis-1,2-Dichloroethene	50.0	47.4	94.79	80-120
31	2,2-Dichloropropane	50.0	45.2	90.46	80-120
32	2-Butanone	50.0	52.6	105.30	80-120
34	Bromochloromethane	50.0	50.1	100.29	80-120
37	1,1,1-Trichloroethane	50.0	44.4	88.90	80-120
39	Carbon Tetrachloride	50.0	46.4	92.82	80-120
41	Chloroform +	50.0	46.6	93.29	80-120
42	1,1-Dichloropropene	50.0	48.1	96.11	80-120
44	Benzene	50.0	49.3	98.50	80-120
46	1,2-Dichloroethane	50.0	45.7	91.41	80-120
49	Trichloroethene	50.0	50.5	101.04	80-120
51	1,2-Dichloropropane +	50.0	48.5	97.00	80-120

Data file : /var/chem/msv0.i/2041227.s.b/t8730.d
Report Date: 01/11/2005 10:05

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
52	Dibromomethane	50.0	49.3	98.56	80-120
54	Bromodichloromethane	50.0	48.6	97.28	80-120
56	2-Chloroethyl vinyl ether	50.0	37.4	74.76*	80-120
58	cis-1,3-Dichloropropene	50.0	49.6	99.20	80-120
59	4-methyl-2-pentanone	50.0	52.3	104.69	80-120
61	Toluene +	50.0	52.6	105.23	80-120
62	trans-1,3-Dichloropropene	50.0	52.9	105.76	80-120
65	1,1,2-Trichloroethane	50.0	54.3	108.53	80-120
66	Tetrachloroethene	50.0	53.8	107.64	80-120
67	1,3-Dichloropropane	50.0	53.9	107.76	80-120
68	2-Hexanone	50.0	58.4	116.79	80-120
69	Dibromochloromethane	50.0	54.1	108.21	80-120
70	1,2-Dibromoethane(EDB)	50.0	55.0	110.00	80-120
72	Chlorobenzene ++	50.0	51.7	103.48	80-120
73	Ethylbenzene +	50.0	52.2	104.40	80-120
74	1,1,1,2-Tetrachloroethane	50.0	53.2	106.42	80-120
75	p,m-Xylene	100	107	106.80	80-120
76	o-Xylene	50.0	54.9	109.76	80-120
77	Styrene	50.0	54.5	108.98	80-120
78	Bromoform ++	50.0	56.9	113.72	80-120
79	Isopropylbenzene	50.0	52.1	104.27	80-120
81	1,1,2,2-Tetrachloroethane++	50.0	49.8	99.54	80-120
83	trans-1,4-Dichloro-2-Butene	50.0	49.8	99.58	80-120
84	Bromobenzene	50.0	48.1	96.28	80-120
85	1,2,3-Trichloropropane	50.0	50.1	100.11	80-120
86	n-Propylbenzene	50.0	48.6	97.16	80-120
87	2-Chlorotoluene	50.0	47.5	94.90	80-120
88	1,3,5-Trimethylbenzene	50.0	48.8	97.64	80-120
90	4-Chlorotoluene	50.0	47.5	94.90	80-120
91	tert-butylbenzene	50.0	46.7	93.44	80-120
92	p-Isopropyltoluene	50.0	49.5	99.07	80-120
93	1,2,4-Trimethylbenzene	50.0	47.6	95.20	80-120
94	sec-Butylbenzene	50.0	47.8	95.52	80-120
96	1,3-Dichlorobenzene	50.0	49.4	98.83	80-120
98	1,4-Dichlorobenzene	50.0	48.6	97.21	80-120
100	n-Butylbenzene	50.0	48.6	97.25	80-120
102	1,2-Dichlorobenzene	50.0	49.0	98.02	80-120
106	1,2-Dibromo-3-Chloropropane	50.0	57.7	115.47	80-120
108	1,2,4-Trichlorobenzene	50.0	52.3	104.68	80-120
109	Hexachlorobutadiene	50.0	49.9	99.86	80-120
110	Naphthalene	50.0	51.7	103.33	80-120
111	1,2,3-Trichlorobenzene	50.0	53.0	106.01	80-120

Data file : /var/chem/msv0.i/2041227.s.b/t8730.d
Report Date: 01/11/2005 10:05

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 36 Dibromofluoromethane	50.0	49.2	98.43	70-130
$ 43 1,2-Dichloroethane-d4	50.0	47.2	94.31	76-128
$ 60 Toluene-d8	50.0	54.0	108.08	83-112
$ 80 Bromofluorobenzene	50.0	54.3	108.61	78-115

GCAL, Inc.

Data file : /var/chem/msv0.i/2041227.s.b/t8730.d
Lab Smp Id: 1600 Client Smp ID: V2ICV
Inj Date : 27-DEC-2004 15:21
Operator : RFS Inst ID: msv0.i
Smp Info : 1600*V2ICV
Misc Info : MSV~5638~*1*MEF
Comment :
Method : /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Meth Date : 03-Jan-2005 12:40 rjo Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 8 QC Sample: ICV
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	2.035	2.042	(0.320)	366139	45.8298	45.8	
2 Chloromethane ++	50	2.246	2.260	(0.353)	231586	49.8655	49.9	
3 Vinyl Chloride +	62	2.372	2.379	(0.373)	335043	47.0511	47.1	
5 Bromomethane	94	2.755	2.756	(0.433)	129510	46.4808	46.5	
6 Chloroethane	64	2.881	2.875	(0.453)	159808	43.8533	43.9	
7 Trichlorofluoromethane	101	3.145	3.146	(0.495)	369930	42.4875	42.5	
9 Acrolein	56	3.727	3.734	(0.586)	204545	249.706	250	(A)
10 1,1,2Trichlotrifluoroethane	101	3.714	3.715	(0.584)	205119	44.8761	44.9	
11 1,1-Dichloroethene +	96	3.753	3.761	(0.590)	177439	46.5122	46.5	
12 Acetone	43	3.899	3.900	(0.613)	177307	51.1010	51.1	
13 Methyl Iodide	142	3.945	3.953	(0.620)	175588	80.6615	80.7	(R)
14 Carbon Disulfide	76	3.978	3.986	(0.626)	717606	45.9592	46.0	
17 Methylene Chloride	49	4.322	4.323	(0.680)	485079	41.1492	41.1	
19 trans-1,2-Dichloroethene	61	4.533	4.541	(0.713)	514413	46.8942	46.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	20 Methyl Acetate	43	4.196	4.204	(0.660)	231853	44.1955	44.2	2639(H)
	21 MTBE	73	4.514	4.514	(0.710)	939587	52.0260	52.0	4708
	22 Acrylonitrile	53	4.626	4.633	(0.728)	904219	255.910	256	(A)
	23 Hexane	57	4.699	4.706	(0.739)	554622	46.9345	46.9	2748
	24 1,1-Dichloroethane ++	63	4.963	4.971	(0.781)	732122	47.5247	47.5	
	25 Vinyl Acetate	43	4.983	4.990	(0.784)	1071360	48.3480	48.3	
	31 2,2-Dichloropropane	77	5.439	5.447	(0.855)	464063	45.2305	45.2	
	30 cis-1,2-Dichloroethene	61	5.465	5.473	(0.860)	672051	47.3958	47.4	
	32 2-Butanone	43	5.492	5.493	(0.864)	356094	52.6486	52.6	
	34 Bromochloromethane	128	5.677	5.678	(0.893)	148760	50.1446	50.1	
$	36 Dibromofluoromethane	111	5.855	5.856	(0.921)	291904	49.2153	49.2	5292
	37 1,1,1-Trichloroethane	97	5.842	5.843	(0.919)	429888	44.4478	44.4	
	38 Cyclohexane	56	5.829	5.830	(0.917)	761059	47.3212	47.3	4549
	39 Carbon Tetrachloride	117	5.941	5.949	(0.934)	317435	46.4109	46.4	
	41 Chloroform +	83	5.717	5.718	(0.899)	569578	46.6427	46.6	
	42 1,1-Dichloropropene	75	5.968	5.969	(0.939)	493776	48.0551	48.1	
$	43 1,2-Dichloroethane-d4	67	6.146	6.147	(0.967)	223887	47.1542	47.2	
	44 Benzene	78	6.133	6.134	(0.965)	1578547	49.2511	49.3	
	46 1,2-Dichloroethane	62	6.206	6.207	(0.976)	565671	45.7070	45.7	
*	47 FLUOROBENZENE	96	6.358	6.359	(1.000)	1258685	50.0000		
M	48 Total 1,2-Dichloroethene	61				1186464	94.2899	94.3	
	49 Trichloroethene	130	6.622	6.623	(1.042)	317419	50.5210	50.5	
	50 Methyl Cyclohexane	83	6.715	6.716	(1.056)	613719	49.4789	49.5	6300
	51 1,2-Dichloropropane +	63	6.827	6.828	(1.074)	491171	48.5008	48.5	
	52 Dibromomethane	93	6.926	6.927	(1.089)	212205	49.2792	49.3	
	54 Bromodichloromethane	83	7.019	7.020	(1.104)	458967	48.6394	48.6	
	56 2-Chloroethyl vinyl ether	63	7.277	7.278	(1.145)	578270	37.3822	37.4	(R)
	57 1-Bromr-2-chloroethana	144	7.277	7.284	(1.145)	57017	51.6325	51.6	2409
	58 cis-1,3-Dichloropropene	75	7.343	7.344	(1.155)	701849	49.6024	49.6	
	59 4-methyl-2-pentanone	43	7.429	7.430	(1.168)	712466	52.3425	52.3	
$	60 Toluene-d8	98	7.501	7.502	(0.875)	1182164	54.0396	54.0	
	61 Toluene +	91	7.554	7.555	(0.881)	1596012	52.6134	52.6	
	62 trans-1,3-Dichloropropene	75	7.746	7.747	(0.904)	654569	52.8777	52.9	
	65 1,1,2-Trichloroethane	97	7.885	7.886	(0.920)	323769	54.2671	54.3	
	66 Tetrachloroethene	164	7.931	7.939	(0.925)	245847	53.8209	53.8	
	67 1,3-Dichloropropane	76	8.017	8.018	(0.935)	724656	53.8804	53.9	
	68 2-Hexanone	43	8.024	8.018	(0.936)	522178	58.3930	58.4	
	69 Dibromochloromethane	129	8.169	8.170	(0.953)	323001	54.1053	54.1	
	70 1,2-Dibromoethane(EDB)	107	8.275	8.282	(0.965)	323883	55.0023	55.0	
*	71 CHLOROBENZENE-d5	82	8.572	8.573	(1.000)	582935	50.0000		
	72 Chlorobenzene ++	112	8.592	8.593	(1.002)	940168	51.7383	51.7	
	73 Ethylbenzene +	106	8.619	8.626	(1.005)	495503	52.1991	52.2	
	74 1,1,1,2-Tetrachloroethane	133	8.645	8.646	(1.008)	284418	53.2089	53.2	
	75 p,m-Xylene	106	8.705	8.705	(1.015)	1287631	106.800	107	
	76 o-Xylene	106	8.989	8.990	(1.049)	639140	54.8786	54.9	
	77 Styrene	104	9.009	9.009	(1.051)	1161886	54.4923	54.5	
	78 Bromoform ++	173	9.187	9.188	(1.072)	209116	56.8579	56.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
	79 Isopropylbenzene	105	9.220	9.221	(1.076)	1570327	52.1355	52.1	
$	80 Bromofluorobenzene	174	9.379	9.380	(1.094)	344210	54.3031	54.3	
	81 1,1,2,2-Tetrachloroethane++	83	9.465	9.466	(0.933)	503789	49.7708	49.8	
	84 Bromobenzene	77	9.498	9.499	(0.937)	1058374	48.1387	48.1	
	83 trans-1,4-Dichloro-2-Butene	53	9.504	9.505	(0.937)	168680	49.7885	49.8	
	85 1,2,3-Trichloropropane	75	9.511	9.518	(0.938)	650411	50.0536	50.1	
	86 n-Propylbenzene	91	9.491	9.492	(0.936)	2238264	48.5789	48.6	
	87 2-Chlorotoluene	91	9.597	9.598	(0.947)	1420529	47.4523	47.5	
	88 1,3,5-Trimethylbenzene	105	9.597	9.604	(0.947)	1365415	48.8198	48.8	
	90 4-Chlorotoluene	91	9.670	9.671	(0.954)	1344599	47.4514	47.5	
	91 tert-butylbenzene	91	9.815	9.816	(0.968)	965014	46.7204	46.7	
	92 p-Isopropyltoluene	119	10.040	10.041	(0.990)	1442016	49.5370	49.5	
	93 1,2,4-Trimethylbenzene	105	9.855	9.856	(0.972)	1404118	47.6002	47.6	
	94 sec-Butylbenzene	105	9.960	9.961	(0.982)	1822831	47.7580	47.8	
	96 1,3-Dichlorobenzene	146	10.093	10.094	(0.995)	750162	49.4135	49.4	
*	97 1,4-DICHLOROBENZENE-D4	152	10.139	10.140	(1.000)	467721	50.0000		
	98 1,4-Dichlorobenzene	146	10.152	10.153	(1.001)	775022	48.6033	48.6	
M	99 TOTAL XYLENE	106				1926771	161.679	162	
	100 n-Butylbenzene	91	10.304	10.305	(1.016)	1578246	48.6229	48.6	
	102 1,2-Dichlorobenzene	146	10.403	10.404	(1.026)	712928	49.0093	49.0	
	106 1,2-Dibromo-3-Chloropropane	157	10.932	10.933	(1.078)	84799	57.7364	57.7	
	108 1,2,4-Trichlorobenzene	180	11.461	11.462	(1.130)	461644	52.3395	52.3	
	109 Hexachlorobutadiene	225	11.507	11.508	(1.135)	199943	49.9312	49.9	
	110 Naphthalene	128	11.666	11.667	(1.151)	1233751	51.6637	51.7	
	111 1,2,3-Trichlorobenzene	180	11.838	11.839	(1.168)	420547	53.0037	53.0	

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/msv0.i/2041227.s.b/t8730.d
Report Date: 03-Jan-2005 12:40

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msv0.i
Lab File ID: t8730.d
Lab Smp Id: 1600
Analysis Type: VOA
Quant Type: ISTD
Operator: RFS
Method File: /var/chem/msv0.i/2041227.s.b/8260Bw0.m
Misc Info: MSV~5638~*1*MEF

Calibration Date: 27-DEC-2004
Calibration Time: 13:51
Client Smp ID: V2ICV
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
47 FLUOROBENZENE	1124160	562080	2248320	1258685	11.97
71 CHLOROBENZENE-d5	565792	282896	1131584	582935	3.03
97 1,4-DICHLOROBENZE	436018	218009	872036	467721	7.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
47 FLUOROBENZENE	6.36	5.86	6.86	6.36	-0.01
71 CHLOROBENZENE-d5	8.57	8.07	9.07	8.57	-0.01
97 1,4-DICHLOROBENZE	10.14	9.64	10.64	10.14	-0.01

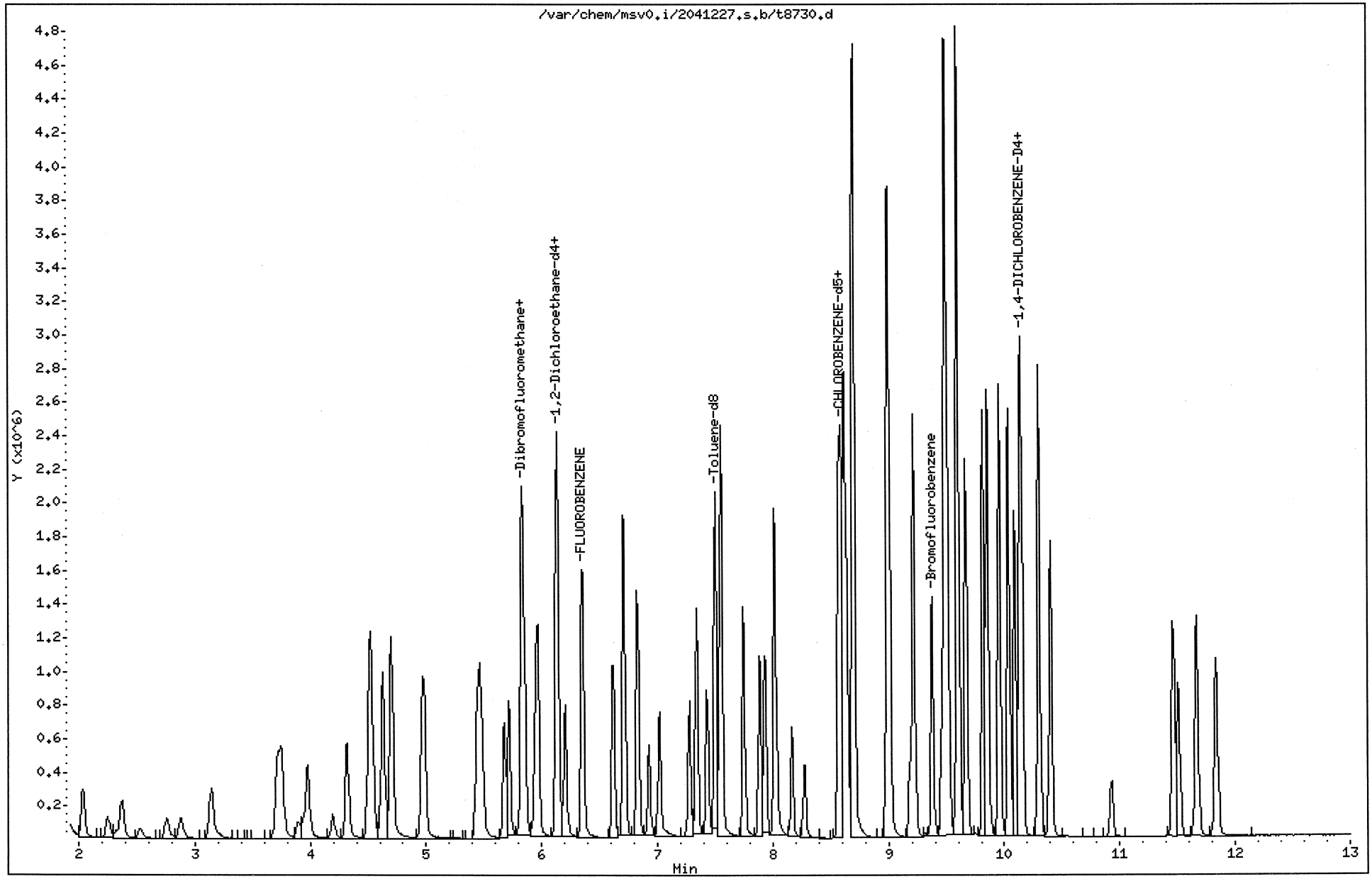
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msv0.i/2041227.s.b/t8730.d
Date : 27-DEC-2004 15:21
Client ID: V2ICV
Sample Info: 1600*V2ICV
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: RFS
Column diameter: 0.53

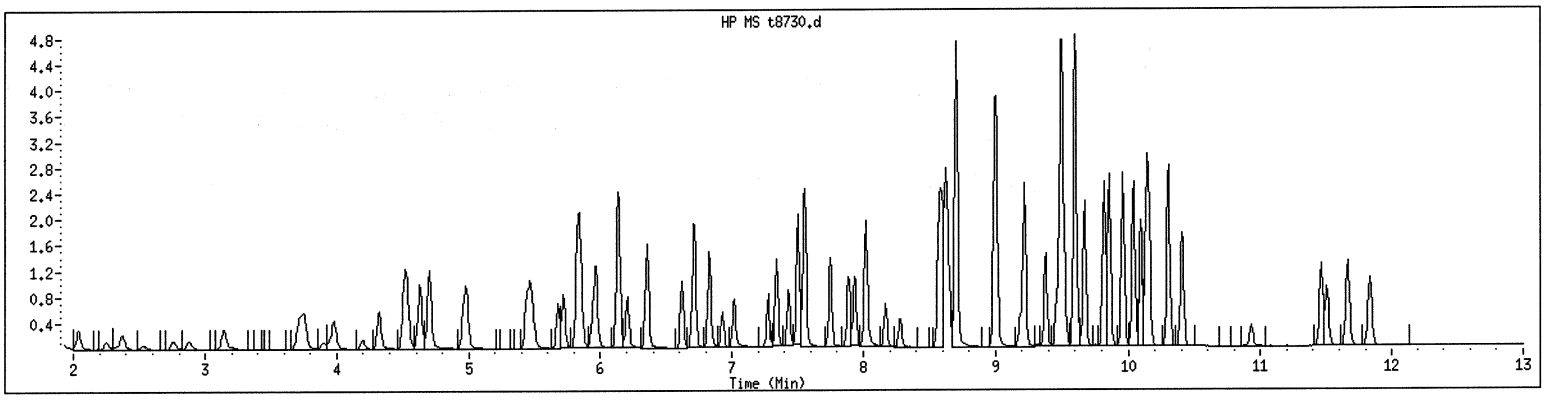
000095



Data file : /var/chem/msv0.i/2041227.s.b/t8730.d
Report Date: 01/03/2005 12:41

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: ICV
Injection Date	: 27-DEC-2004 15:21	Instrument	: msv0.i
Operator	: RFS		
Sample Info	: 1600*V2ICV		
Misc Info	: MSV~5638~*1*MEF		
Method	: /var/chem/msv0.i/2041227.s.b/8260Bw0.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.: 204122902

Instrument ID: MSV0

Calibration Date: 12/29/04 Time: 0925

Lab File ID: 2041229/T8780

Init. Calib. Date 1: 12/27/04 Time 1: 1245

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1436

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

Analytical Batch: 285454

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
Acetone	50.0	71.1	0	42.2	50	L
Acrolein	0.033	0.040	0	23.7	50	A
Acrylonitrile	0.140	0.157	0	11.5	50	A
Bromochloromethane	0.118	0.120	0	2.01	50	A
Bromodichloromethane	0.375	0.396	0	5.7	50	A
Bromoform	0.315	0.307	.1	-2.55	50	A
Bromomethane	0.111	0.090	0	-18.6	50	A
Carbon disulfide	0.620	0.729	0	17.5	50	A
Carbon tetrachloride	0.272	0.302	0	11.2	50	A
Chloroethane	0.145	0.171	0	18.1	50	A
m,p-Xylene	1.034	1.088	0	5.21	50	A
Chloroform	0.485	0.513	0	5.85	20	A
Chloromethane	0.184	0.192	.1	3.97	50	A
Dibromochloromethane	0.512	0.515	0	.52	50	A
Dibromomethane	0.171	0.175	0	2.11	50	A
Dichlorodifluoromethane	0.317	0.301	0	-5.29	50	A
1,1-Dichloroethane	0.612	0.695	.1	13.6	50	A
1,2-Dichloroethane	0.492	0.528	0	7.36	50	A
cis-1,2-Dichloroethene	0.563	0.619	0	9.84	50	A
trans-1,2-Dichloroethene	0.436	0.501	0	15	50	A
Methylene chloride	0.468	0.582	0	24.2	50	A
1,2-Dichloropropane	0.402	0.430	0	6.85	20	A
cis-1,3-Dichloropropene	0.562	0.576	0	2.47	50	A
trans-1,3-Dichloropropene	1.062	1.126	0	6.03	50	A
Ethylbenzene	0.814	0.832	0	2.16	20	A
2-Hexanone	0.767	0.844	0	10.1	50	A
Isopropylbenzene (Cumene)	2.583	2.634	0	1.96	50	A
2-Butanone	0.269	0.301	0	12.1	50	A
4-Methyl-2-pentanone	0.541	0.539	0	-.22	50	A
n-Propylbenzene	4.925	5.182	0	5.21	50	A
Styrene	1.829	1.902	0	4.01	50	A
Tetrachloroethene	0.392	0.392	0	.02	50	A
1,1,1,2-Tetrachloroethane	0.458	0.473	0	3.08	50	A
1,1,2,2-Tetrachloroethane	1.082	1.061	.3	-1.96	50	A
1,2,4-Trichlorobenzene	0.943	0.887	0	-5.97	50	A
1,1,1-Trichloroethane	0.384	0.418	0	8.69	50	A
1,1,2-Trichloroethane	0.512	0.523	0	2.14	50	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSV0

Calibration Date: 12/29/04 Time: 0925

Lab File ID: 2041229/T8780

Init. Calib. Date 1: 12/27/04 Time 1: 1245

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1436

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

Analytical Batch: 285454

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
Trichlorofluoromethane	0.346	0.405	0	17.1	50	A
1,2,3-Trichloropropane	1.389	1.432	0	3.08	50	A
1,2,4-Trimethylbenzene	3.153	3.195	0	1.32	50	A
1,3,5-Trimethylbenzene	2.990	3.168	0	5.96	50	A
Vinyl chloride	0.283	0.317	0	12.2	20	A
o-Xylene	0.999	1.043	0	4.44	50	A
1,2-Dibromo-3-chloropropane	0.157	0.148	0	-5.95	50	A
1,2-Dibromoethane	0.505	0.507	0	.38	50	A
Vinyl acetate	0.880	1.012	0	15	50	A
tert-Butyl methyl ether (MTBE)	0.717	0.789	0	9.93	50	A
1,2-Dichloroethene	0.501	0.560	0	11.8	50	A
4-Isopropyltoluene	3.112	3.254	0	4.58	50	A
Xylene (total)	1.381	1.486	0	7.61	50	A
Methylcyclohexane	0.493	0.519	0	5.34	50	A
n-Hexane	0.469	0.539	0	14.9	50	A
trans-1,4-Dichloro-2-butene	0.362	0.406	0	12	50	A
Cyclohexane	0.639	0.709	0	11	50	A
2,2-Dichloropropane	0.408	0.448	0	9.85	50	A
Methyl Acetate	0.208	0.272	0	30.4	50	A
Trichlorotrifluoroethane	0.182	0.223	0	23.1	50	A
1,1-Dichloropropene	0.408	0.441	0	8.04	50	A
2-Chloroethylvinyl ether	0.614	0.640	0	4.18	50	A
1,3-Dichloropropane	1.154	1.215	0	5.31	50	A
Bromobenzene	2.350	2.470	0	5.08	50	A
2-Chlorotoluene	3.200	3.355	0	4.82	50	A
4-Chlorotoluene	3.029	3.107	0	2.57	50	A
tert-Butylbenzene	2.208	2.256	0	2.19	50	A
sec-Butylbenzene	4.080	4.153	0	1.78	50	A
1,3-Dichlorobenzene	1.623	1.611	0	-.76	50	A
1,4-Dichlorobenzene	1.705	1.698	0	-.38	50	A
n-Butylbenzene	3.470	3.612	0	4.1	50	A
1,2-Dichlorobenzene	1.555	1.535	0	-1.31	50	A
Hexachlorobutadiene	0.428	0.400	0	-6.58	50	A
Naphthalene	50.0	42.8	0	-14.4	50	L
1,2,3-Trichlorobenzene	0.848	0.757	0	-10.7	50	A
1-Bromo-2-chloroethane	0.044	0.042	0	-3.52	50	A
1,1-Dichloroethene	0.152	0.180	0	19	20	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSV0

Calibration Date: 12/29/04 Time: 0925

Lab File ID: 2041229/T8780

Init. Calib. Date 1: 12/27/04 Time 1: 1245

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1436

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

Analytical Batch: 285454

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	*TYPE*
Benzene	1.273	1.341	0	5.36	50	A
Trichloroethene	0.250	0.250	0	.04	50	A
Toluene	2.602	2.691	0	3.42	20	A
Chlorobenzene	1.559	1.538	.3	-1.33	50	A
4-Bromofluorobenzene	0.544	0.493	0	-9.35	50	A
Dibromofluoromethane	0.236	0.246	0	4.21	50	A
Toluene-d8	1.876	1.964	0	4.67	50	A
1,2-Dichloroethane-d4	0.189	0.204	0	8.13	50	A

FORM V II VOA

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8779.d
Lab Smp Id: 1000 Client Smp ID: V0BFB
Inj Date : 29-DEC-2004 09:02
Operator : KCB Inst ID: msv0.i
Smp Info : 1000*V0BFB
Misc Info : MSV~5626~*1*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/bfb0.m
Meth Date : 21-Dec-2004 11:13 kcb 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
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	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.379	9.555	(0.000)	95	182826			100.00- 100.00	100.00
9.379	9.555	(0.000)	50	65541			15.00- 40.00	35.85
9.379	9.555	(0.000)	75	105666			30.00- 60.00	57.80
9.379	9.555	(0.000)	96	11837			5.00- 9.00	6.47
9.379	9.555	(0.000)	173	0			0.00- 2.00	0.00
9.379	9.555	(0.000)	174	114458			50.00- 99.99	62.60
9.379	9.555	(0.000)	175	8440			5.00- 9.00	7.37
9.379	9.555	(0.000)	176	110312			95.00- 101.00	96.38
9.379	9.555	(0.000)	177	7044			5.00- 9.00	6.39

Data File: /var/chem/msv0.i/2041229.s.b/t8779.d

Date : 29-DEC-2004 09:02

Client ID: VOBFB

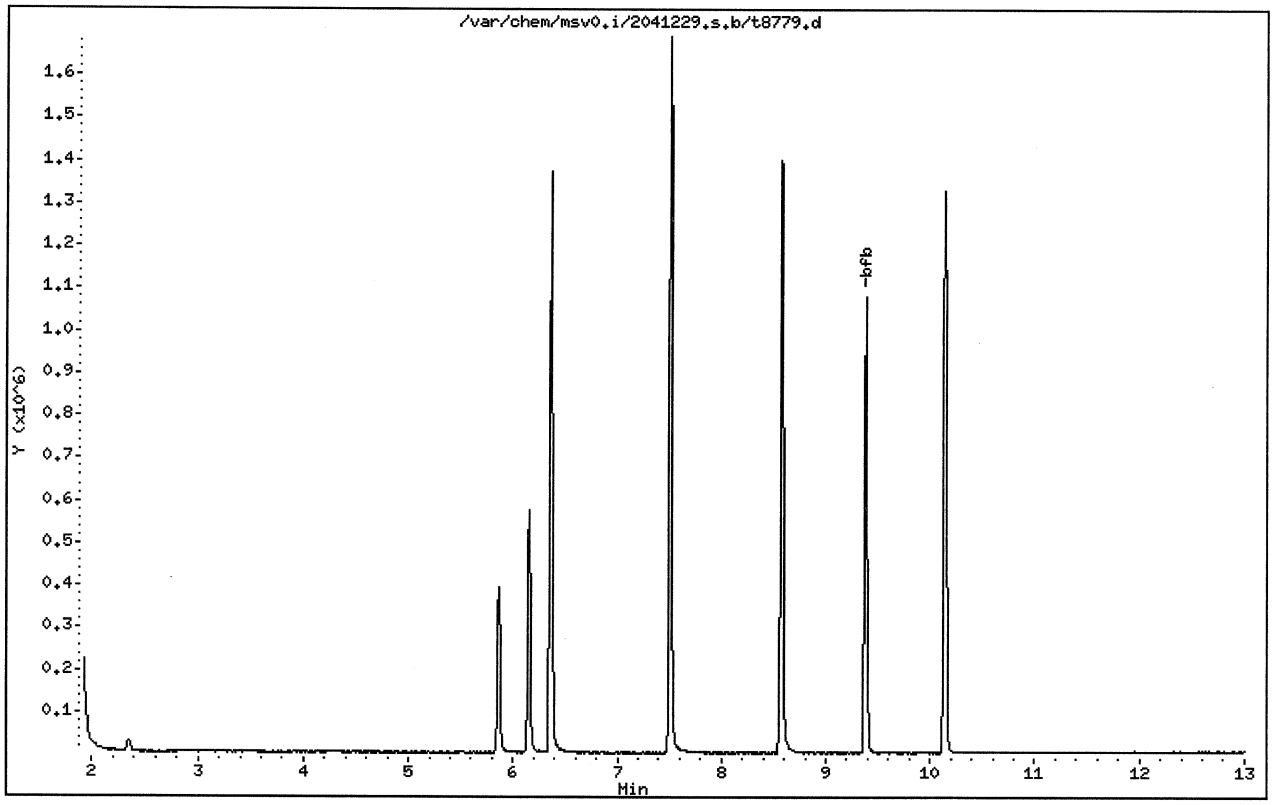
Instrument: msv0.i

Sample Info: 1000*VOBFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv0.i/2041229.s.b/t8779.d

Date : 29-DEC-2004 09:02

Client ID: VOBFB

Instrument: msv0.i

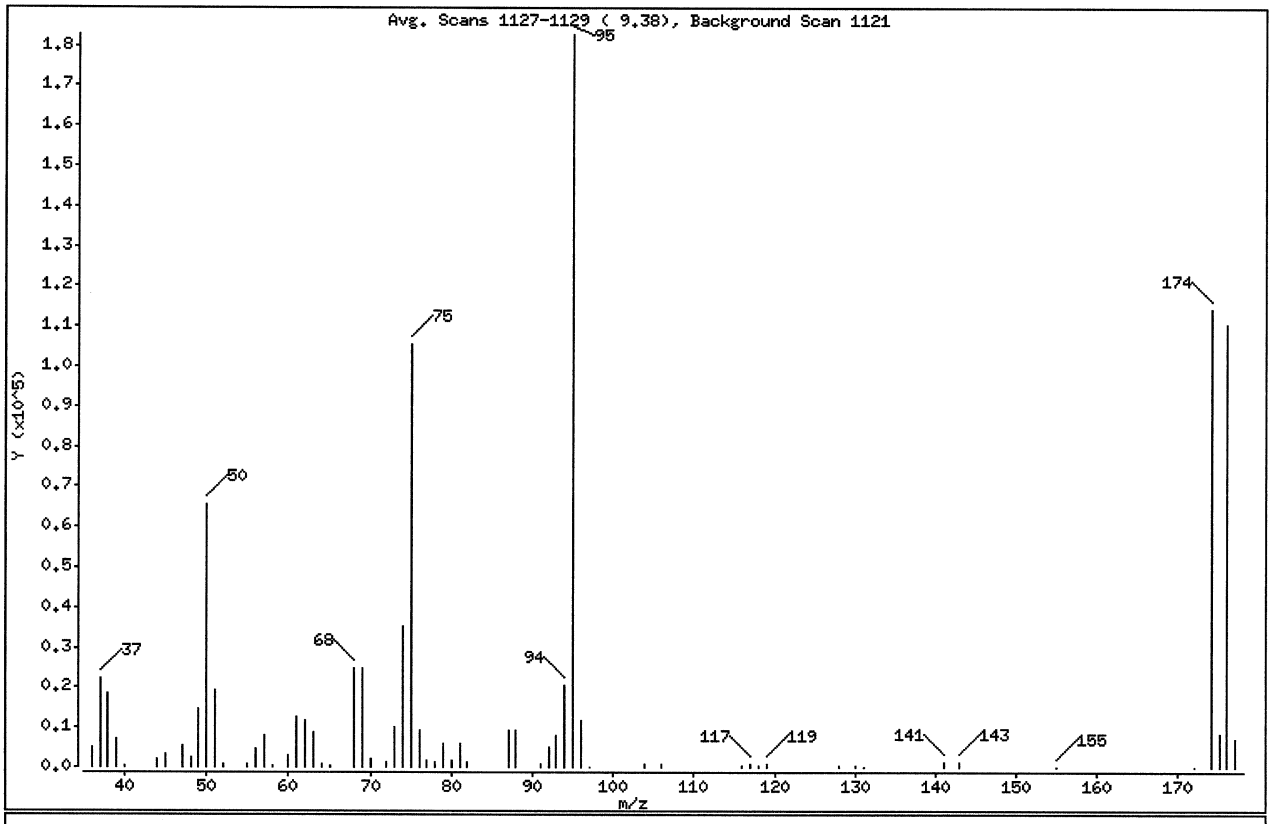
Sample Info: 1000*VOBFB

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	35.85
75	30.00 - 60.00% of mass 95	57.80
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	62.60
175	5.00 - 9.00% of mass 174	4.62 (7.37)
176	95.00 - 101.00% of mass 174	60.34 (96.38)
177	5.00 - 9.00% of mass 176	3.85 (6.39)

Data File: /var/chem/msv0.i/2041229.s.b/t8779.d

Date : 29-DEC-2004 09:02

Client ID: V0BFB

Instrument: msv0.i

Sample Info: 1000*V0BFB

Operator: KCB

Column phase: DB-624-30M

Column diameter: 0.53

Data File: t8779.d

Spectrum: Avg. Scans 1127-1129 (9.38), Background Scan 1121

Location of Maximum: 95.00

Number of points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4853	58.00	328	78.00	1270	116.00	370
37.00	22304	60.00	2881	79.00	5741	117.00	978
38.00	18544	61.00	12619	80.00	1773	118.00	501
39.00	6997	62.00	11633	81.00	5681	119.00	884
40.00	249	63.00	8962	82.00	1180	128.00	339
44.00	2172	64.00	928	87.00	9386	130.00	375
45.00	3441	65.00	511	88.00	9311	131.00	159
47.00	5479	68.00	24944	91.00	660	141.00	1176
48.00	2447	69.00	24624	92.00	4976	143.00	1347
49.00	14737	70.00	1925	93.00	7839	155.00	145
50.00	65536	72.00	1325	94.00	20776	172.00	160
51.00	19224	73.00	9901	95.00	182784	174.00	114456
52.00	915	74.00	35360	96.00	11837	175.00	8440
55.00	798	75.00	105664	97.00	145	176.00	110312
56.00	4427	76.00	9299	104.00	739	177.00	7044
57.00	7943	77.00	1769	106.00	643		

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8780.d
Lab Smp Id: 1400 Client Smp ID: V0STD050
Inj Date : 29-DEC-2004 09:25
Operator : KCB Inst ID: msv0.i
Smp Info : 1400*V0STD050*5-21-3
Misc Info : MSV~5636~*1*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/8260Bw0.m
Meth Date : 29-Dec-2004 09:21 kcb Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 3 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)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.056	2.056	(0.323)	296328	50.0000	47.4	
2 Chloromethane ++	50	2.267	2.267	(0.356)	189099	50.0000	52.0	
3 Vinyl Chloride +	62	2.393	2.393	(0.376)	312748	50.0000	56.1	
5 Bromomethane	94	2.776	2.776	(0.436)	88780	50.0000	40.7	
6 Chloroethane	64	2.902	2.902	(0.456)	168495	50.0000	59.0	
7 Trichlorofluoromethane	101	3.166	3.166	(0.497)	399408	50.0000	58.6	
9 Acrolein	56	3.748	3.748	(0.589)	198367	250.000	309	(A)
10 1,1,2Trichlotrifluoroethane	101	3.728	3.728	(0.586)	220288	50.0000	61.5	
11 1,1-Dichloroethene +	96	3.775	3.775	(0.593)	177708	50.0000	59.5	
12 Acetone	43	3.920	3.920	(0.616)	189335	50.0000	71.1	
13 Methyl Iodide	142	3.966	3.966	(0.623)	149779	50.0000	87.8	
14 Carbon Disulfide	76	3.999	3.999	(0.628)	718691	50.0000	58.8	
17 Methylene Chloride	49	4.337	4.337	(0.681)	573521	50.0000	62.1	
19 trans-1,2-Dichloroethene	61	4.548	4.548	(0.714)	494156	50.0000	57.5	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	20 Methyl Acetate	43	4.211	4.211	(0.661)	267816	50.0000	65.2	2184(H)
	21 MTBE	73	4.528	4.528	(0.711)	777485	50.0000	55.0	4510
	22 Acrylonitrile	53	4.641	4.641	(0.729)	771604	250.000	279	(A)
	23 Hexane	57	4.713	4.713	(0.740)	531669	50.0000	57.4	2908(H)
	24 1,1-Dichloroethane ++	63	4.978	4.978	(0.782)	685343	50.0000	56.8	
	25 Vinyl Acetate	43	4.998	4.998	(0.785)	997809	50.0000	57.5	
	31 2,2-Dichloropropane	77	5.454	5.454	(0.857)	441377	50.0000	54.9	
	30 cis-1,2-Dichloroethene	61	5.480	5.480	(0.861)	609949	50.0000	54.9	
	32 2-Butanone	43	5.507	5.507	(0.865)	296930	50.0000	56.1	
	34 Bromochloromethane	128	5.685	5.685	(0.893)	118511	50.0000	51.0	
$	36 Dibromofluoromethane	111	5.864	5.864	(0.921)	242068	50.0000	52.1	5226
	37 1,1,1-Trichloroethane	97	5.850	5.850	(0.919)	411687	50.0000	54.3	
	38 Cyclohexane	56	5.837	5.837	(0.917)	699130	50.0000	55.5	4515
	39 Carbon Tetrachloride	117	5.956	5.956	(0.936)	297862	50.0000	55.6	
	41 Chloroform +	83	5.731	5.731	(0.900)	506225	50.0000	52.9	
	42 1,1-Dichloropropene	75	5.976	5.976	(0.939)	434734	50.0000	54.0	
$	43 1,2-Dichloroethane-d4	67	6.154	6.154	(0.967)	201056	50.0000	54.1	
	44 Benzene	78	6.141	6.141	(0.965)	1322491	50.0000	52.7	
	46 1,2-Dichloroethane	62	6.214	6.214	(0.976)	520328	50.0000	53.7	
*	47 FLUOROBENZENE	96	6.366	6.366	(1.000)	985860	50.0000		
M	48 Total 1,2-Dichloroethene	61				1104105	100.000	112	
	49 Trichloroethene	130	6.624	6.624	(1.040)	246163	50.0000	50.0	
	50 Methyl Cyclohexane	83	6.723	6.723	(1.056)	511689	50.0000	52.7	6309
	51 1,2-Dichloropropane +	63	6.835	6.835	(1.074)	423766	50.0000	53.4	
	52 Dibromomethane	93	6.934	6.934	(1.089)	172194	50.0000	51.1	
	54 Bromodichloromethane	83	7.020	7.020	(1.103)	390606	50.0000	52.9	
	56 2-Chloroethyl vinyl ether	63	7.285	7.285	(1.144)	631100	50.0000	52.1	
	57 1-Bromr-2-chloroethana	144	7.285	7.285	(1.144)	41726	50.0000	48.2	2456
	58 cis-1,3-Dichloropropene	75	7.344	7.344	(1.154)	567787	50.0000	51.2	
	59 4-methyl-2-pentanone	43	7.437	7.437	(1.168)	531865	50.0000	49.9	
$	60 Toluene-d8	98	7.510	7.510	(0.876)	938576	50.0000	52.3	
	61 Toluene +	91	7.556	7.556	(0.881)	1285970	50.0000	51.7	
	62 trans-1,3-Dichloropropene	75	7.754	7.754	(0.904)	538012	50.0000	53.0	
	65 1,1,2-Trichloroethane	97	7.893	7.893	(0.921)	249802	50.0000	51.1	
	66 Tetrachloroethene	164	7.939	7.939	(0.926)	187274	50.0000	50.0	
	67 1,3-Dichloropropane	76	8.025	8.025	(0.936)	580578	50.0000	52.7	
	68 2-Hexanone	43	8.032	8.032	(0.937)	403556	50.0000	55.0	
	69 Dibromochloromethane	129	8.171	8.171	(0.953)	245973	50.0000	50.3	
	70 1,2-Dibromoethane(EDB)	107	8.283	8.283	(0.966)	242282	50.0000	50.2	
*	71 CHLOROBENZENE-d5	82	8.574	8.574	(1.000)	477893	50.0000		
	72 Chlorobenzene ++	112	8.600	8.600	(1.003)	734943	50.0000	49.3	
	73 Ethylbenzene +	106	8.627	8.627	(1.006)	397504	50.0000	51.1	
	74 1,1,1,2-Tetrachloroethane	133	8.646	8.646	(1.008)	225843	50.0000	51.5	
	75 p,m-Xylene	106	8.706	8.706	(1.015)	1039940	100.000	105	
	76 o-Xylene	106	8.997	8.997	(1.049)	498596	50.0000	52.2	
	77 Styrene	104	9.010	9.010	(1.051)	909070	50.0000	52.0	
	78 Bromoform ++	173	9.189	9.189	(1.072)	146910	50.0000	48.7	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Isopropylbenzene	105	9.222	9.222	(1.076)	1258808	50.0000	51.0	
$	80 Bromofluorobenzene	174	9.380	9.380	(1.094)	235543	50.0000	45.3	
	81 1,1,2,2-Tetrachloroethane++	83	9.466	9.466	(0.934)	366057	50.0000	49.0	
	84 Bromobenzene	77	9.499	9.499	(0.937)	852195	50.0000	52.5	
	83 trans-1,4-Dichloro-2-Butene	53	9.506	9.506	(0.937)	139918	50.0000	56.0	
	85 1,2,3-Trichloropropane	75	9.519	9.519	(0.939)	494074	50.0000	51.5	
	86 n-Propylbenzene	91	9.493	9.493	(0.936)	1788030	50.0000	52.6	
	87 2-Chlorotoluene	91	9.598	9.598	(0.947)	1157502	50.0000	52.4	
	88 1,3,5-Trimethylbenzene	105	9.605	9.605	(0.947)	1093110	50.0000	53.0	
	90 4-Chlorotoluene	91	9.671	9.671	(0.954)	1072143	50.0000	51.3	
	91 tert-butylbenzene	91	9.823	9.823	(0.969)	778602	50.0000	51.1	
	92 p-Isopropyltoluene	119	10.041	10.041	(0.990)	1122905	50.0000	52.3	
	93 1,2,4-Trimethylbenzene	105	9.863	9.863	(0.973)	1102431	50.0000	50.7	
	94 sec-Butylbenzene	105	9.962	9.962	(0.982)	1432972	50.0000	50.9	
	96 1,3-Dichlorobenzene	146	10.101	10.101	(0.996)	555752	50.0000	49.6	
*	97 1,4-DICHLOROBENZENE-D4	152	10.140	10.140	(1.000)	345053	50.0000		
	98 1,4-Dichlorobenzene	146	10.160	10.160	(1.002)	585970	50.0000	49.8	
M	99 TOTAL XYLENE	106				1538536	150.000	157	
	100 n-Butylbenzene	91	10.306	10.306	(1.016)	1246395	50.0000	52.1	
	102 1,2-Dichlorobenzene	146	10.411	10.411	(1.027)	529535	50.0000	49.3	
	106 1,2-Dibromo-3-Chloropropane	157	10.940	10.940	(1.079)	50954	50.0000	47.0	
	108 1,2,4-Trichlorobenzene	180	11.469	11.469	(1.131)	305920	50.0000	47.0	
	109 Hexachlorobutadiene	225	11.515	11.515	(1.136)	137995	50.0000	46.7	
	110 Naphthalene	128	11.674	11.674	(1.151)	735676	50.0000	42.8	
	111 1,2,3-Trichlorobenzene	180	11.846	11.846	(1.168)	261104	50.0000	44.6	

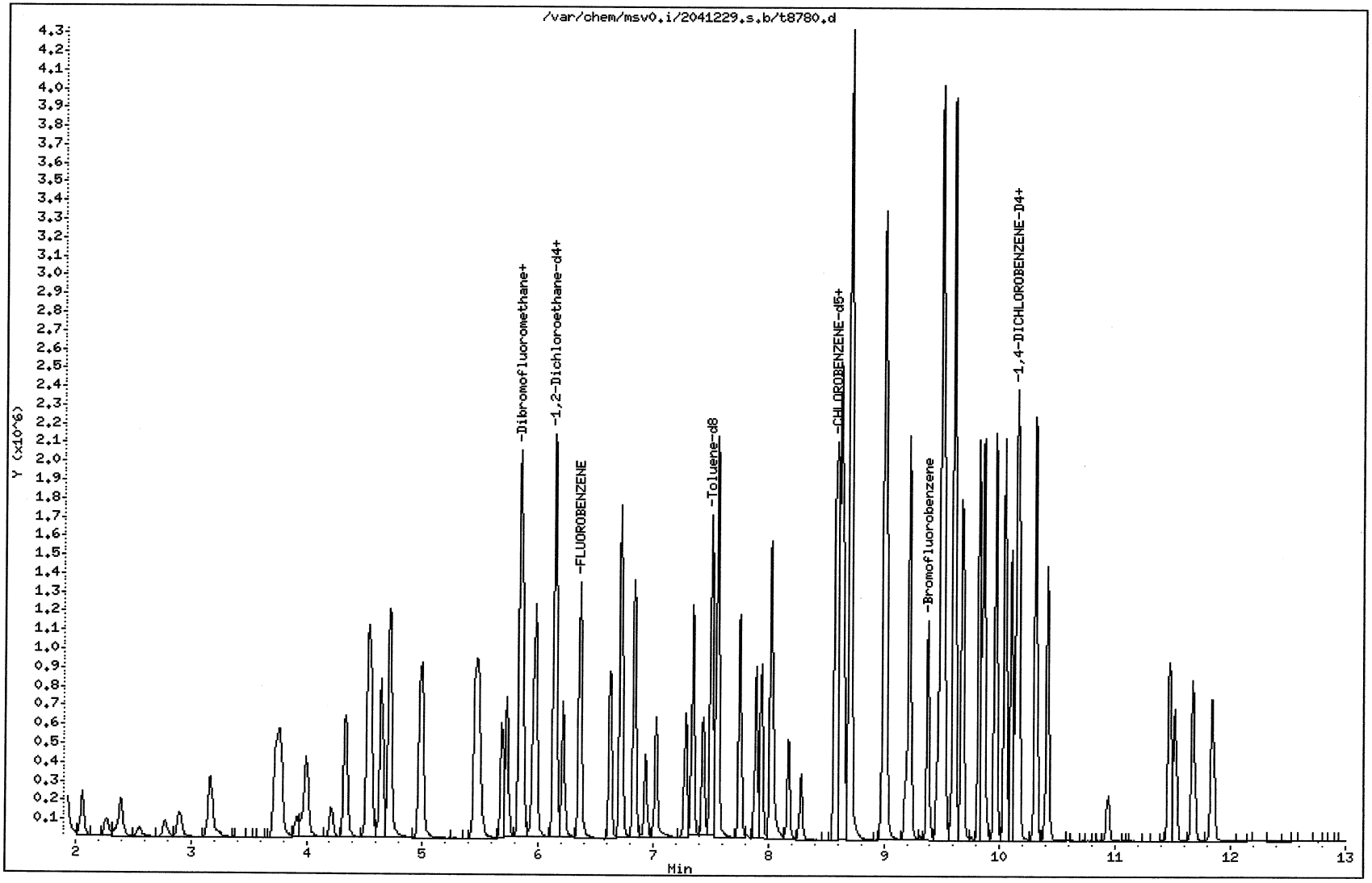
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2041229.s.b/t8780.d
Date : 29-DEC-2004 09:25
Client ID: VOSTD050
Sample Info: 1400*VOSTD050*5-21-3
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

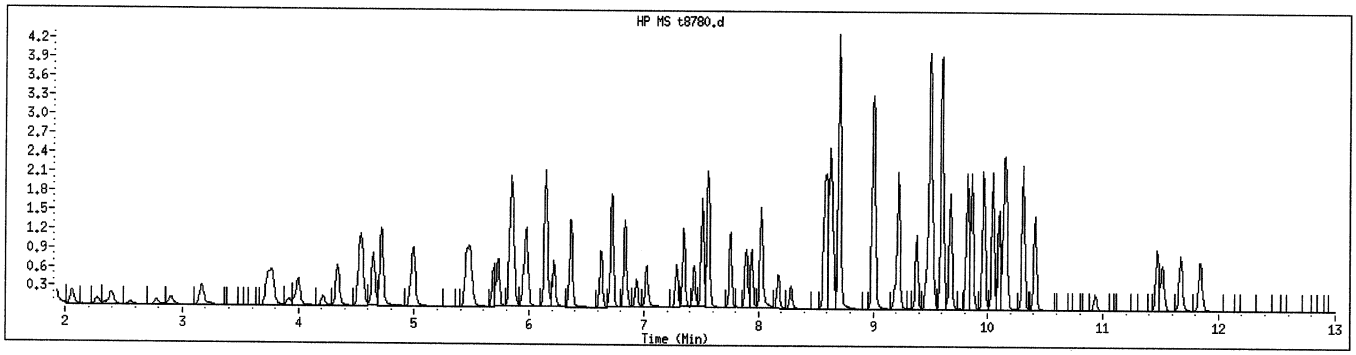


000107

Data file : /var/chem/msv0.i/2041229.s.b/t8780.d
Report Date: 12/29/2004 09:22

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 29-DEC-2004 09:25	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 1400*V0STD050*5-21-3		
Misc Info	: MSV~5636~*1*KCB		
Method	: /var/chem/msv0.i/2041229.s.b/8260Bw0.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.: 204122902

Instrument ID: MSV3

Calibration Date 1: 12/30/04 Time 1: 1228

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

Calibration Date 2: 12/30/04 Time 2: 1501

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285627

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	0.073	0.082	0.069	0.068	0.069					0.072			7.854	A
Acrolein	24160	102800	259600	587200	1387000	12850				62.1	0.118	-40.401	0.999	Q
Acrylonitrile	0.064	0.069	0.062	0.062	0.063					0.064			4.373	A
Bromochloromethane	0.173	0.159	0.144	0.148	0.151	0.141				0.153			7.741	A
Bromodichloromethane	0.350	0.344	0.347	0.319	0.341	0.340		0.421		0.352			9.195	A
Bromoform	0.606	0.621	0.633	0.632	0.642	0.581				0.619			3.618	A
Bromomethane	0.112	0.133	0.113	0.052		0.112				0.104			29.51	A
Carbon disulfide	0.645	0.733	0.647	0.646	0.696					0.673			5.888	A
Carbon tetrachloride	0.329	0.311	0.332	0.296	0.297	0.298				0.311			5.322	A
Chloroethane	21420	88130	191500	261100	393900	10160				9.024	0.025	169.6	0.997	Q
m,p-Xylene	1.158	1.154	1.109	1.063	1.052	1.184				1.120			4.836	A
Chloroform	0.460	0.430	0.403	0.400	0.410	0.418				0.420			5.324	A
Chloromethane	0.163	0.161	0.145	0.143	0.156	0.198				0.161			12.24	A
Dibromochloromethane	0.807	0.811	0.828	0.788	0.796	0.821		0.933		0.826			5.943	A
Dibromomethane	0.190	0.195	0.191	0.174	0.187	0.191				0.188			3.816	A
Dichlorodifluoromethane	0.250	0.252	0.241	0.231	0.262	0.236				0.245			4.552	A
1,1-Dichloroethane	0.332	0.368	0.341	0.331	0.348	0.361				0.347			4.377	A
1,2-Dichloroethane	0.347	0.323	0.340	0.299	0.299	0.330				0.323			6.267	A
cis-1,2-Dichloroethene	0.347	0.336	0.314	0.296	0.308	0.328				0.322			5.876	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.: 204122902

Instrument ID: MSV3

Calibration Date 1: 12/30/04 Time 1: 1228

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

Calibration Date 2: 12/30/04 Time 2: 1501

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285627

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 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	0.246	0.280	0.248	0.242	0.255	0.268				0.257			5.643	A
Methylene chloride	0.219	0.220	0.199	0.193	0.209					0.208			5.757	A
1,2-Dichloropropane	0.219	0.225	0.211	0.198	0.200					0.210			5.411	A
cis-1,3-Dichloropropene	0.414	0.410	0.394	0.378	0.390	0.412				0.400			3.545	A
trans-1,3-Dichloropropene	0.404	0.412	0.402	0.387	0.399					0.400			2.260	A
Ethylbenzene	0.973	0.948	0.902	0.884	0.885	1.006				0.933			5.429	A
2-Hexanone	0.316	0.318	0.296	0.305	0.284	0.311				0.305			4.249	A
Isopropylbenzene (Cumene)	473333	1748080	4038212	7399373	14267630	200407		53552		2.615	-0.029		0.999	L
2-Butanone	42514	125607	273311	519120	1006410					0.081	-0.033		0.999	L
Methyl iodide	0.363	0.456	0.410	0.428	0.443					0.420			8.622	A
4-Methyl-2-pentanone	0.176	0.193	0.183	0.179	0.188					0.184			3.758	A
n-Propylbenzene	3.088	3.115	2.964	2.851	2.633	3.130				2.964			6.543	A
Styrene	2.055	1.972	1.943	1.849	1.836	2.119				1.962			5.695	A
Tetrachloroethene	0.621	0.635	0.599	0.585	0.581					0.604			3.827	A
1,1,1,2-Tetrachloroethane	0.680	0.652	0.652	0.630	0.620	0.699		0.782		0.674			8.192	A
1,1,2,2-Tetrachloroethane	0.673	0.669	0.697	0.662	0.623	0.672	0.547	0.834		0.672			11.91	A
1,2,4-Trichlorobenzene	0.727	0.782	0.660	0.582	0.764					0.703			11.71	A
1,1,1-Trichloroethane	0.402	0.378	0.401	0.362	0.373	0.348				0.377			5.695	A
1,1,2-Trichloroethane	0.567	0.586	0.567	0.546	0.546	0.612				0.571			4.435	A

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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.: 204122902

Instrument ID: MSV3

Calibration Date 1: 12/30/04 Time 1: 1228

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

Calibration Date 2: 12/30/04 Time 2: 1501

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285627

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorofluoromethane	0.258	0.272	0.254	0.306	0.298	0.282				0.278			7.562	A
1,2,3-Trichloropropane	0.816	0.803	0.841	0.781	0.714	0.844				0.800			6.037	A
1,2,4-Trimethylbenzene	1.872	1.918	1.850	1.514	1.802	1.935				1.815			8.547	A
1,3,5-Trimethylbenzene	2.012	2.052	1.850	1.699	1.911	2.044				1.928			7.131	A
Vinyl chloride	0.194	0.199	0.187	0.184	0.203	0.197		0.273		0.205			14.95	A
o-Xylene	1.149	1.122	1.084	1.040	1.048	1.215				1.110			5.998	A
1,2-Dibromo-3-chloropropane	31654	130511	282701	599847	1288096	13116	3827	3847		0.212	0.019		0.999	L
1,2-Dibromoethane	108668	401095	976678	1828942	3622915	46091	7283	9471		0.664	-0.005		0.999	L
Vinyl acetate	0.368	0.390	0.356	0.336	0.354	0.357				0.360			4.968	A
tert-Butyl methyl ether (MTBE)	0.529	0.594	0.543	0.537	0.550	0.571				0.554			4.347	A
1,2-Dichloroethene	0.297	0.308	0.281	0.269	0.281	0.298				0.289			4.911	A
4-Isopropyltoluene	2.259	2.291	2.141	1.977	2.010					2.136			6.629	A
Xylene (total)	1.155	1.143	1.101	1.055	1.051	1.195				1.117			5.157	A
Methylcyclohexane	0.414	0.423	0.379	0.370	0.393					0.396			5.697	A
n-Hexane	0.242	0.259	0.223	0.239	0.259					0.244			6.147	A
trans-1,4-Dichloro-2-butene	0.148	0.149	0.152	0.149	0.137	0.143				0.146			3.811	A
Cyclohexane	0.308	0.296	0.285	0.268	0.279	0.281				0.286			4.820	A
2,2-Dichloropropane	0.368	0.345	0.316	0.309	0.318	0.327				0.331			6.715	A
Methyl Acetate	0.082	0.092	0.084	0.093	0.099					0.090			7.638	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.: 204122902

Instrument ID: MSV3

Calibration Date 1: 12/30/04 Time 1: 1228

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

Calibration Date 2: 12/30/04 Time 2: 1501

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285627

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorotrifluoroethane	0.208	0.234	0.213	0.215	0.227					0.219			4.967	A
1,1-Dichloropropene	0.327	0.302	0.304	0.279	0.279	0.315				0.301			6.430	A
2-Chloroethylvinyl ether	0.133	0.137	0.137	0.138	0.144					0.138			3.032	A
1,3-Dichloropropane	0.896	0.880	0.853	0.811	0.777	0.922				0.857			6.368	A
Bromobenzene	1.259	1.228	1.216	1.149	1.069	1.325				1.208			7.357	A
2-Chlorotoluene	2.124	2.085	2.001	1.888	1.597	2.192				1.981			10.87	A
4-Chlorotoluene	2.110	2.104	2.051	1.962	1.871	2.154				2.042			5.225	A
tert-Butylbenzene	1.562	1.595	1.512	1.450	1.445	1.568				1.522			4.184	A
sec-Butylbenzene	2.935	2.964	2.835	2.732	2.536					2.800			6.212	A
1,3-Dichlorobenzene	1.552	1.519	1.448	1.397	1.300	1.611				1.471			7.661	A
1,4-Dichlorobenzene	1.558	1.537	1.464	1.418	1.389	1.628				1.499			6.073	A
n-Butylbenzene	1.755	1.793	1.657	1.411	1.690					1.661			9.011	A
1,2-Dichlorobenzene	1.463	1.443	1.361	1.341	1.319	1.537				1.411			5.954	A
Hexachlorobutadiene	0.550	0.621	0.521	0.518	0.592					0.560			8.024	A
Naphthalene	201100	890500	1839000	3229000	8613000	96110		40920		0.982	-0.048	-0.047	0.998	Q
1,2,3-Trichlorobenzene	0.626	0.704	0.609	0.548	0.695					0.636			10.15	A
1-Bromo-2-chloroethane	0.320	0.329	0.324	0.312	0.318	0.335				0.323			2.489	A
1,3-Dichloropropylene	0.409	0.411	0.398	0.383	0.395					0.399			2.850	A
1,1-Dichloroethene	0.190	0.199	0.183	0.182	0.190					0.189			3.665	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.: 204122902

Instrument ID: MSV3

Calibration Date 1: 12/30/04 Time 1: 1228

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

Calibration Date 2: 12/30/04 Time 2: 1501

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 285627

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Benzene	0.913	0.891	0.862	0.805	0.777	0.985				0.872			8.659	A
Trichloroethene	0.323	0.333	0.310	0.289	0.315	0.335				0.317			5.389	A
Toluene	1.136	1.112	1.059	1.021	1.039	1.215				1.097			6.618	A
Chlorobenzene	1.900	1.808	1.748	1.680	1.672	2.086				1.816			8.661	A
4-Bromofluorobenzene	0.911	0.891	0.875	0.847	0.863					0.877			2.825	A
Dibromofluoromethane	0.323	0.309	0.317	0.282	0.288	0.280				0.300			6.236	A
Toluene-d8	1.020	1.005	0.966	0.921	0.948					0.972			4.158	A
1,2-Dichloroethane-d4	0.161	0.146	0.154	0.140	0.144	0.165				0.152			6.539	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/msv3.i/2041230.s.b/s6925BFB.d
Lab Smp Id: 1000 Client Smp ID: BFB
Inj Date : 30-DEC-2004 11:46
Operator : RJO Inst ID: msv3.i
Smp Info : 1000*BFB
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/bfb3.m
Meth Date : 29-Apr-2004 11:00 jck 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		
8.168	8.700	(0.000)	95	135850			100.00- 100.00	100.00
8.168	8.700	(0.000)	50	21045			15.00- 40.00	15.49
8.168	8.700	(0.000)	75	64642			30.00- 60.00	47.58
8.168	8.700	(0.000)	96	9518			5.00- 9.00	7.01
8.168	8.700	(0.000)	173	0			0.00- 2.00	0.00
8.168	8.700	(0.000)	174	122829			50.00- 99.99	90.42
8.168	8.700	(0.000)	175	9221			5.00- 9.00	7.51
8.168	8.700	(0.000)	176	117813			95.00- 101.00	95.92
8.168	8.700	(0.000)	177	9199			5.00- 9.00	7.81

Data File: /var/chem/msv3.i/2041230.s.b/s6925BFB.d

Date : 30-DEC-2004 11:46

Client ID: BFB

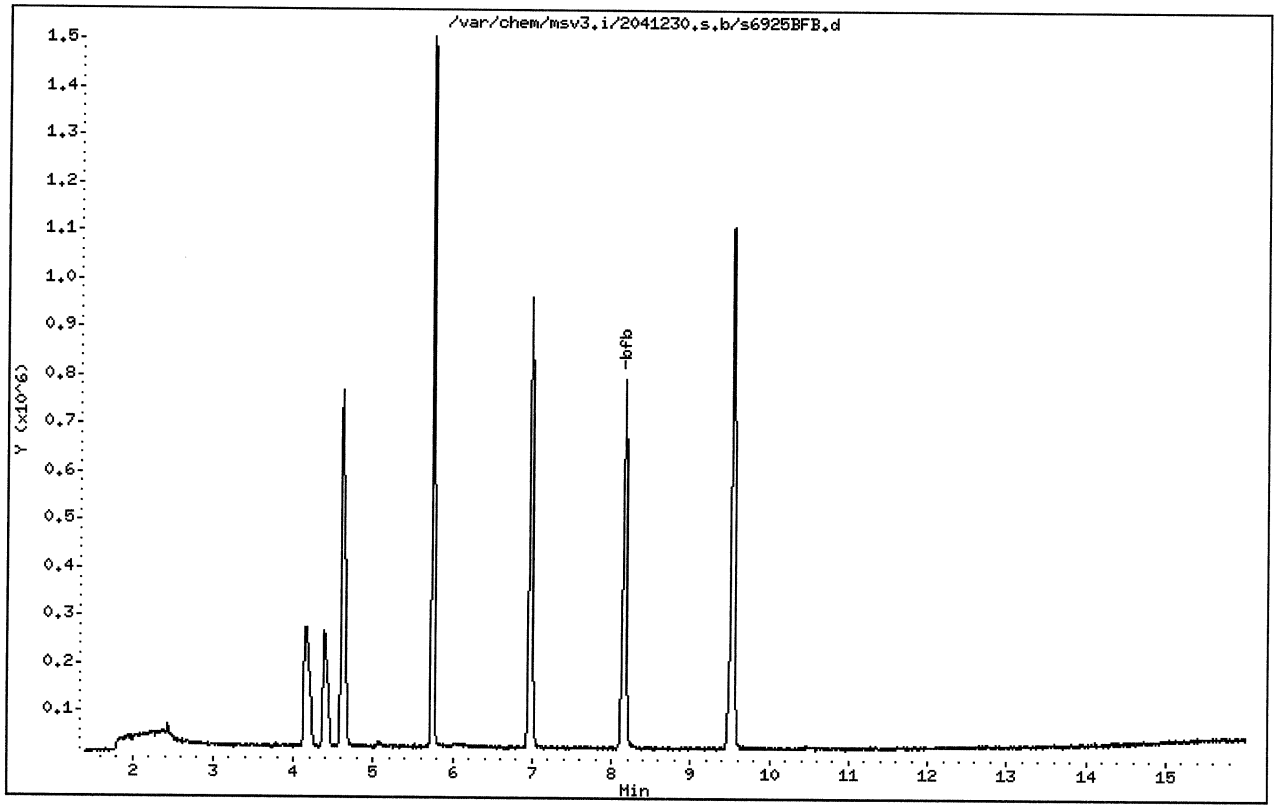
Instrument: msv3.i

Sample Info: 1000xBFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv3.i/2041230.s.b/s6925BFB.d

Date : 30-DEC-2004 11:46

Client ID: BFB

Instrument: msv3.i

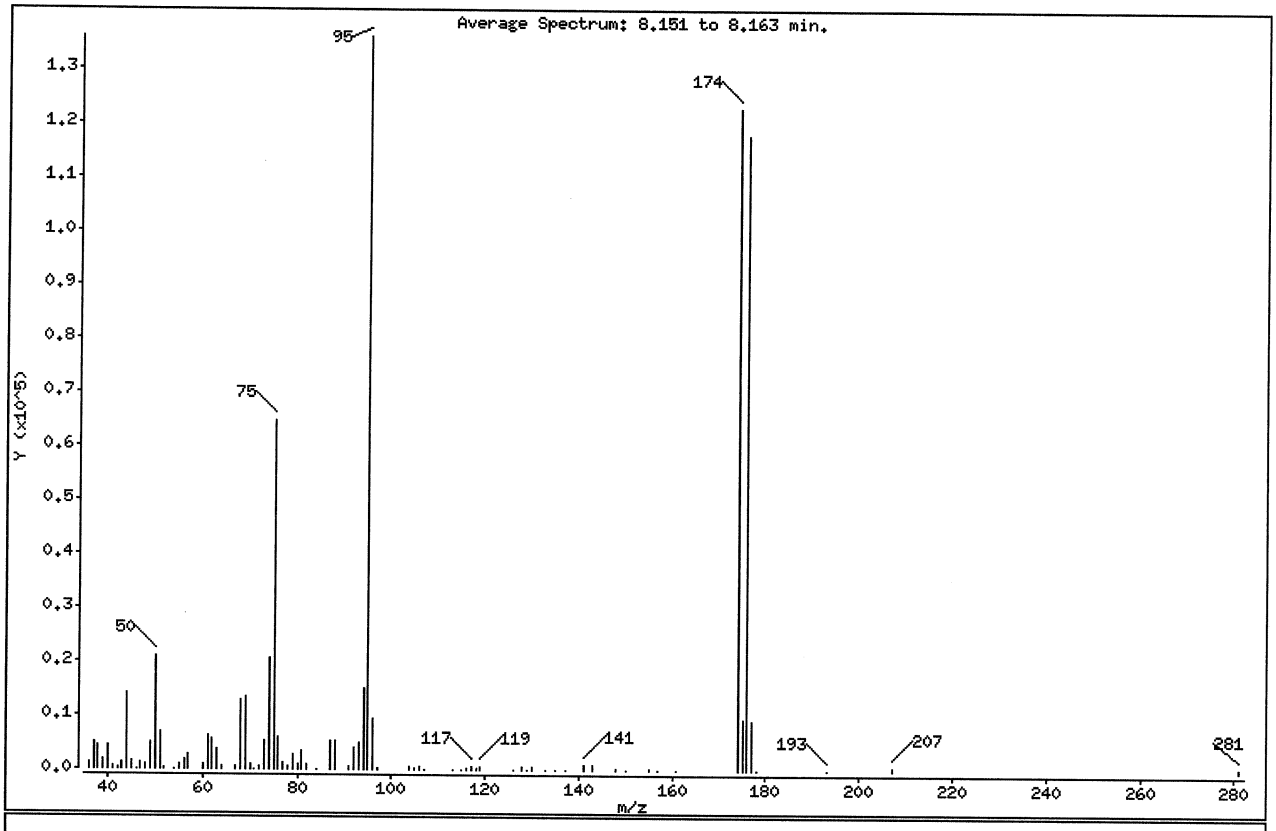
Sample Info: 1000xBFB

Operator: RJO

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	15.49
75	30.00 - 60.00% of mass 95	47.58
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	90.42
175	5.00 - 9.00% of mass 174	6.79 (7.51)
176	95.00 - 101.00% of mass 174	86.72 (95.92)
177	5.00 - 9.00% of mass 176	6.77 (7.81)

Data File: /var/chem/msv3.i/2041230.s.b/s6925BFB.d

Date : 30-DEC-2004 11:46

Client ID: BFB

Instrument: msv3.i

Sample Info: 1000*BFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6925BFB.d
Spectrum: Average Spectrum: 8.151 to 8.163 min.
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1308	61.00	6208	88.00	5235	133.00	115
37.00	5088	62.00	5599	91.00	577	135.00	119
38.00	4488	63.00	3594	92.00	4137	137.00	102
39.00	1860	64.00	714	93.00	5073	141.00	1077
40.00	4244	67.00	762	94.00	15113	143.00	931
41.00	764	68.00	12895	95.00	135808	148.00	293
42.00	399	69.00	13357	96.00	9518	150.00	135
43.00	1157	70.00	1028	97.00	433	155.00	258
44.00	14119	71.00	101	104.00	522	157.00	126
45.00	1500	72.00	679	105.00	317	161.00	103
46.00	122	73.00	5199	106.00	557	174.00	122824
47.00	1257	74.00	20624	107.00	102	175.00	9221
48.00	890	75.00	64640	113.00	105	176.00	117808
49.00	5110	76.00	5817	115.00	108	177.00	9199
50.00	21040	77.00	1197	116.00	333	178.00	137
51.00	6755	78.00	692	117.00	767	193.00	100
52.00	461	79.00	2928	118.00	319	207.00	778
54.00	100	80.00	993	119.00	700	281.00	761
55.00	1042	81.00	3317	126.00	110		
56.00	1930	82.00	875	128.00	534		
57.00	2896	84.00	135	129.00	107		
60.00	1084	87.00	5462	130.00	522		

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6926.d
Lab Smp Id: 1206 Client Smp ID: V3STD002
Inj Date : 30-DEC-2004 12:28
Operator : RJO Inst ID: msv3.i
Smp Info : 1206*V3STD002*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:13 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 12:28 Cal File: s6926.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.605	1.605	(0.343)	38107	2.00000	2.00	5436(a)
	2 Chloromethane ++	50	1.771	1.771	(0.378)	31849	2.00000	2.00	4127(a)
	3 Vinyl Chloride +	62	1.857	1.857	(0.396)	31770	2.00000	2.00	4959(a)
	5 Bromomethane	94	2.132	2.132	(0.455)	18131	2.00000	2.00	5059(a)
	6 Chloroethane	64	2.201	2.201	(0.470)	10164	2.00000	2.00	4884(a)
	7 Trichlorofluoromethane	101	2.412	2.412	(0.515)	45511	2.00000	2.00	6629(a)
	9 Acrolein	56	2.704	2.704	(0.577)	12854	10.0000	10.0	3328(a)
	17 Methyl Acetate	43	3.025	3.025	(0.646)	18498	2.00000		3420(a)
	21 MTBE	73	3.277	3.277	(0.699)	92006	2.00000	2.00	8812(a)
	22 trans-1,2-Dichloroethene	61	3.277	3.277	(0.699)	43256	2.00000	2.00	(a)
	24 Hexane	57	3.448	3.448	(0.736)	45825	2.00000		6379(a)
	25 Vinyl Acetate	43	3.563	3.563	(0.761)	57524	2.00000	2.00	(a)
	26 1,1-Dichloroethane ++	63	3.546	3.546	(0.757)	58133	2.00000	2.00	7260(a)
M	30 Total 1,2-Dichloroethene	61				96105	4.00000	4.00	0(a)
	34 cis-1,2-Dichloroethene	61	3.923	3.923	(0.838)	52849	2.00000	2.00	(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
35 2,2-Dichloropropane	77	3.929	3.929	(0.839)	52697	2.00000	2.00	8713(a)
37 Bromochloromethane	128	4.078	4.078	(0.870)	22782	2.00000	2.00	7329(a)
38 Chloroform +	83	4.112	4.112	(0.878)	67329	2.00000	2.00	8852(a)
$ 39 Dibromofluoromethane	111	4.221	4.221	(0.901)	45122	2.00000	2.00	7621(a)
40 1,1,1-Trichloroethane	97	4.267	4.267	(0.911)	56032	2.00000	2.00	8600(a)
42 Cyclohexane	56	4.318	4.318	(0.922)	45344	2.00000	2.00	8583(a)
43 1,1-Dichloropropene	75	4.381	4.381	(0.935)	50814	2.00000	2.00	8048(a)
44 Carbon Tetrachloride	117	4.381	4.381	(0.935)	48093	2.00000	2.00	8213(a)
$ 45 1,2-Dichloroethane-d4	67	4.456	4.456	(0.951)	26539	2.00000	2.00	9029(a)
46 1,2-Dichloroethane	62	4.501	4.501	(0.961)	53256	2.00000	2.00	8260(a)
47 Benzene	78	4.530	4.530	(0.967)	158869	2.00000	2.00	8756(a)
* 48 FLUOROBENZENE	96	4.685	4.685	(1.000)	4030719	50.0000		8768
49 Trichloroethene	130	4.936	4.936	(1.054)	54007	2.00000	2.00	8530(a)
51 Methyl Cyclohexane	83	5.080	5.080	(1.084)	64137	2.00000		8346(a)
55 Dibromomethane	93	5.160	5.160	(1.101)	30827	2.00000	2.00	7673(a)
56 Bromodichloromethane	83	5.251	5.251	(1.121)	54818	2.00000	2.00	8526(a)
58 1-Bromo-2-chloroethane	63	5.497	5.497	(1.173)	53944	2.00000	2.00	8660(a)
59 cis-1,3-Dichloropropene	75	5.572	5.572	(1.189)	66378	2.00000	2.00	(a)
62 Toluene +	91	5.841	5.841	(1.247)	195844	2.00000	2.00	8023(a)
M 138 Total-1-3 Dichloropropene	100				131025	4.00000		0(a)
65 1,1,2-Trichloroethane	97	6.133	6.133	(0.874)	41392	2.00000	2.00	8953(a)
66 1,3-Dichloropropane	76	6.281	6.281	(0.895)	62397	2.00000	2.00	7761(a)
68 2-Hexanone	43	6.310	6.310	(0.899)	21068	2.00000	2.00	(a)
69 Dibromochloromethane	129	6.487	6.487	(0.924)	55526	2.00000	2.00	8783(a)
70 1,2-Dibromoethane(EDB)	107	6.613	6.613	(0.942)	46091	2.00000	2.00	7559(a)
* 71 CHLOROBENZENE-d5	82	7.020	7.020	(1.000)	1691355	50.0000		5599
72 Chlorobenzene ++	112	7.048	7.048	(1.004)	141100	2.00000	2.00	2742(a)
73 1,1,1,2-Tetrachloroethane	133	7.100	7.100	(1.011)	47311	2.00000	2.00	7395(a)
74 Ethylbenzene +	106	7.128	7.128	(1.015)	68032	2.00000	2.00	(a)
75 p,m-Xylene	106	7.237	7.237	(1.031)	160244	4.00000	4.00	(a)
76 o-Xylene	106	7.649	7.649	(1.090)	82203	2.00000	2.00	(a)
77 Styrene	104	7.649	7.649	(1.090)	143333	2.00000	2.00	9132(a)
M 78 TOTAL XYLENE	106				242447	6.00000	6.00	0
79 Bromoform ++	173	7.855	7.855	(1.119)	39324	2.00000	2.00	8081(a)
80 Isopropylbenzene	105	8.016	8.016	(1.142)	200407	2.00000	2.00	9131(a)
83 1,1,2,2-Tetrachloroethane++	83	8.302	8.302	(0.869)	47417	2.00000	2.00	8842(a)
84 trans-1,4-Dichloro-2-Butene	53	8.365	8.365	(0.875)	10085	2.00000	2.00	7868(a)
85 1,2,3-Trichloropropane	75	8.376	8.376	(0.877)	59499	2.00000	2.00	7802(a)
86 Bromobenzene	77	8.382	8.382	(0.877)	93396	2.00000	2.00	8462(a)
87 n-Propylbenzene	91	8.462	8.462	(0.886)	220691	2.00000	2.00	(a)
88 2-Chlorotoluene	91	8.594	8.594	(0.899)	154575	2.00000	2.00	(a)
89 1,3,5-Trimethylbenzene	105	8.657	8.657	(0.906)	144120	2.00000	2.00	9012(a)
90 4-Chlorotoluene	91	8.708	8.708	(0.911)	151917	2.00000	2.00	(a)
91 tert-butylbenzene	91	9.052	9.052	(0.947)	110537	2.00000	2.00	8733(a)
93 1,2,4-Trimethylbenzene	105	9.103	9.103	(0.953)	136443	2.00000	2.00	(a)
96 1,3-Dichlorobenzene	146	9.481	9.481	(0.992)	113584	2.00000	2.00	(a)
* 97 1,4-DICHLOROBENZENE-D4	152	9.555	9.555	(1.000)	1762814	50.0000		4495

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
98 1,4-Dichlorobenzene	146	9.589	9.589	(1.004)	114786	2.00000	2.00	(a)
100 1,2-Dichlorobenzene	146	10.065	10.065	(1.053)	108353	2.00000	2.00	(a)
101 1,2-Dibromo-3-Chloropropane	157	11.095	11.095	(1.161)	13116	2.00000	2.00	7536 (a)
105 Naphthalene	128	12.634	12.634	(1.322)	96111	2.00000	2.00	8661 (a)

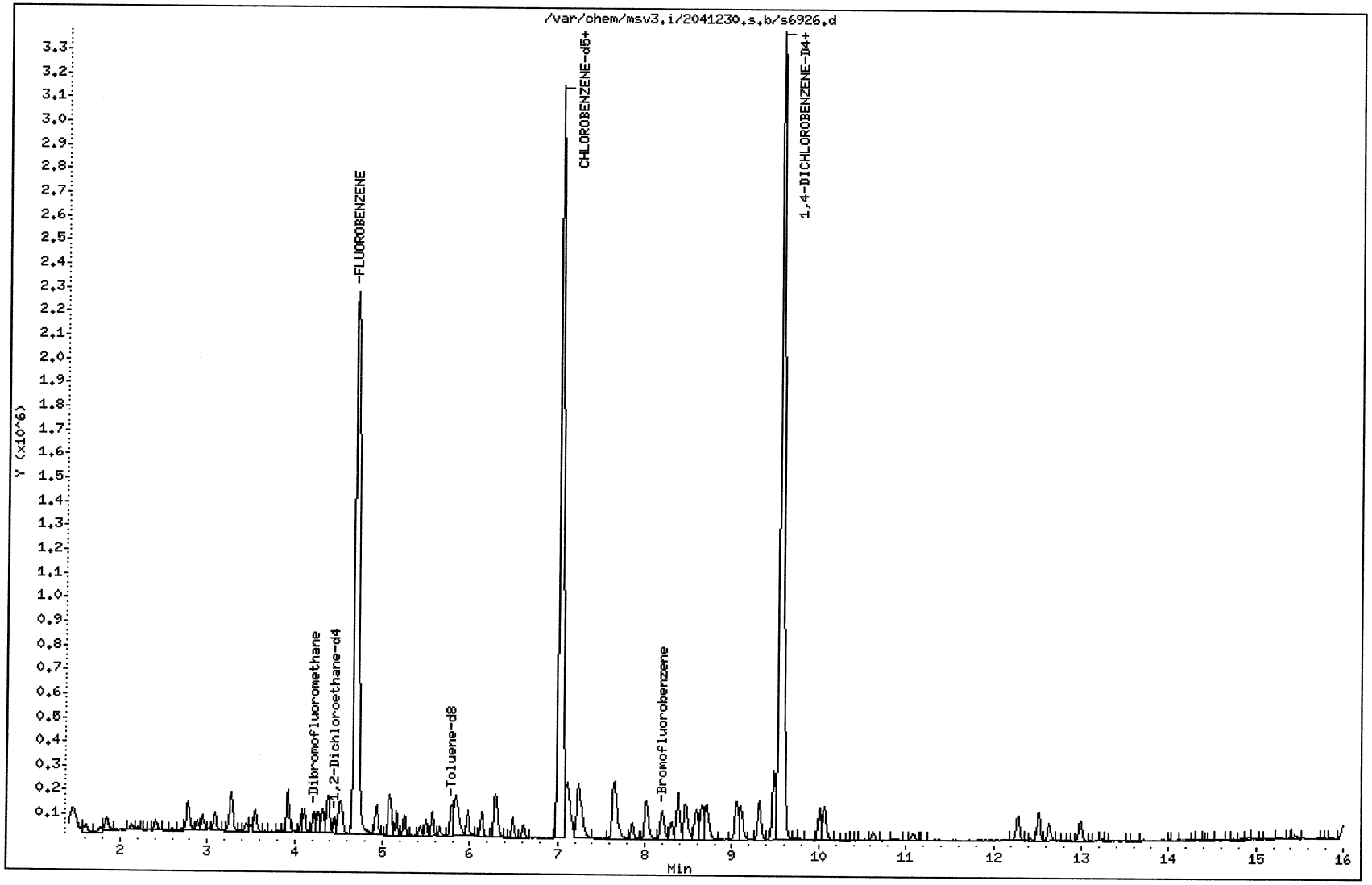
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv3.i/2041230.s.b/s6926.d
Date : 30-DEC-2004 12:28
Client ID: V3STD002
Sample Info: 1206*V3STD002*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

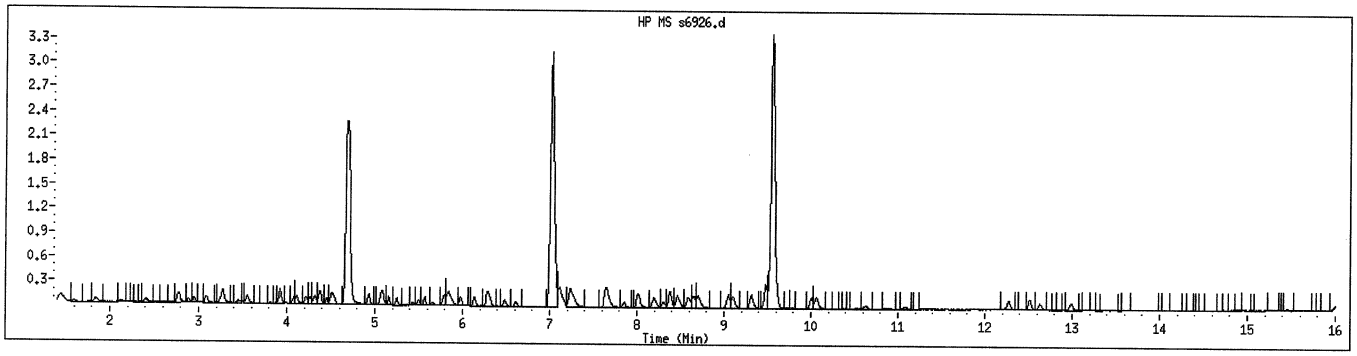
Operator: RJO
Column diameter: 0.53



Data file : /var/chem/msv3.i/2041230.s.b/s6926.d
Report Date: 12/31/2004 09:13

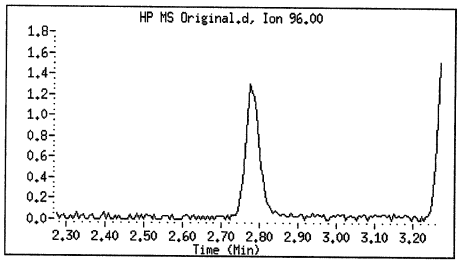
MANUAL INTEGRATION GRAPHIC REPORT

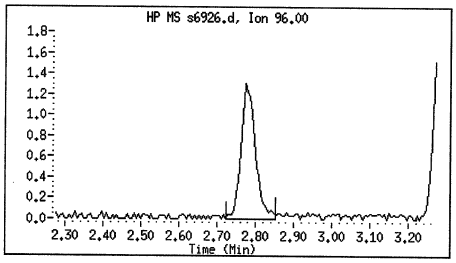
Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 30-DEC-2004 12:28	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1206*V3STD002*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



Original | Final

11 1,1-Dichloroethene + CAS#: 75-35-4





GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6927.d
Lab Smp Id: 1201 Client Smp ID: V3STD005
Inj Date : 30-DEC-2004 12:50
Operator : RJO Inst ID: msv3.i
Smp Info : 1201*V3STD005*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:13 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 12:50 Cal File: s6927.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.598	1.598	(0.341)	91521	5.00000	5.14	7157
2 Chloromethane ++	50	1.782	1.782	(0.380)	59757	5.00000	4.52	5618(a)
3 Vinyl Chloride +	62	1.856	1.856	(0.396)	71059	5.00000	4.96	6519(aM)
5 Bromomethane	94	2.131	2.131	(0.455)	41086	5.00000	4.99	6366(a)
6 Chloroethane	64	2.199	2.199	(0.470)	21425	5.00000	5.00	6009
7 Trichlorofluoromethane	101	2.411	2.411	(0.515)	94696	5.00000	4.78	7902(a)
9 Acrolein	56	2.703	2.703	(0.577)	24165	25.0000	25.0	5007
10 1,1,2Trichlotrifluoroethane	101	2.766	2.766	(0.591)	76232	5.00000	5.00	8195
11 1,1-Dichloroethene +	96	2.777	2.777	(0.593)	69659	5.00000	5.00	8665
12 Acetone	43	2.818	2.818	(0.602)	26678	5.00000	5.00	(a)
13 Methyl Iodide	142	2.886	2.886	(0.616)	133115	5.00000	5.00	8179
14 Carbon Disulfide	76	2.943	2.943	(0.628)	236452	5.00000	5.00	8818
17 Methyl Acetate	43	3.018	3.018	(0.644)	30216	5.00000	5.00	3670
18 Methylene Chloride	49	3.087	3.087	(0.659)	80226	5.00000	5.00	8183(a)
20 Acrylonitrile	53	3.253	3.253	(0.694)	117289	25.0000	25.0	6783

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	3.275	3.275	(0.699)	193843	5.00000	4.81	8831(a)
	22 trans-1,2-Dichloroethene	61	3.275	3.275	(0.699)	90308	5.00000	4.79	(a)
	24 Hexane	57	3.476	3.476	(0.742)	88603	5.00000	5.00	7804
	25 Vinyl Acetate	43	3.562	3.562	(0.760)	134899	5.00000	5.08	
	26 1,1-Dichloroethane ++	63	3.544	3.544	(0.757)	121685	5.00000	4.79	7237(a)
M	30 Total 1,2-Dichloroethene	61				217503	10.0000	9.98	0
	32 2-Butanone	43	3.922	3.922	(0.837)	42514	5.00000	5.00	(a)
	34 cis-1,2-Dichloroethene	61	3.922	3.922	(0.837)	127195	5.00000	5.14	
	35 2,2-Dichloropropane	77	3.934	3.934	(0.840)	135076	5.00000	5.30	8314
	37 Bromochloromethane	128	4.077	4.077	(0.870)	63501	5.00000	5.51	7280
	38 Chloroform +	83	4.117	4.117	(0.879)	168729	5.00000	5.24	8380
$	39 Dibromofluoromethane	111	4.220	4.220	(0.901)	118254	5.00000	5.35	8658
	40 1,1,1-Trichloroethane	97	4.266	4.266	(0.911)	147283	5.00000	5.36	8466
	42 Cyclohexane	56	4.317	4.317	(0.922)	112773	5.00000	5.22	8698
	43 1,1-Dichloropropene	75	4.374	4.374	(0.934)	120017	5.00000	5.09	8235
	44 Carbon Tetrachloride	117	4.380	4.380	(0.935)	120795	5.00000	5.25	8236
$	45 1,2-Dichloroethane-d4	67	4.454	4.454	(0.951)	59037	5.00000	4.94	8818(a)
	46 1,2-Dichloroethane	62	4.500	4.500	(0.961)	127183	5.00000	5.12	8242
	47 Benzene	78	4.523	4.523	(0.966)	334894	5.00000	4.81	8784(a)
*	48 FLUOROBENZENE	96	4.683	4.683	(1.000)	3666472	50.0000		8795
	49 Trichloroethene	130	4.929	4.929	(1.053)	118274	5.00000	4.91	8710(a)
	51 Methyl Cyclohexane	83	5.084	5.084	(1.086)	151878	5.00000	5.00	8465
	52 1,2-Dichloropropane +	63	5.084	5.084	(1.086)	80180	5.00000	5.00	8268
	55 Dibromomethane	93	5.158	5.158	(1.101)	69544	5.00000	4.98	7811(a)
	56 Bromodichloromethane	83	5.250	5.250	(1.121)	128501	5.00000	5.08	8835
	57 2-Chloroethyl vinyl ether	63	5.433	5.433	(1.160)	48740	5.00000	5.00	8561
	58 1-Bromo-2-chloroethane	63	5.496	5.496	(1.174)	117448	5.00000	4.89	8499(a)
	59 cis-1,3-Dichloropropene	75	5.570	5.570	(1.189)	151655	5.00000	5.01	
	60 4-methyl-2-pentanone	43	5.662	5.662	(1.209)	64453	5.00000	5.00	
$	61 Toluene-d8	98	5.794	5.794	(1.237)	373810	5.00000	5.00	9039
	62 Toluene +	91	5.845	5.845	(1.248)	416623	5.00000	4.83	7483(a)
	63 trans-1,3-Dichloropropene	75	5.977	5.977	(1.276)	147971	5.00000	5.00	
M	138 Total-1-3 Dichloropropene	100				299626	10.0000	10.0	0
	65 1,1,2-Trichloroethane	97	6.137	6.137	(0.874)	89981	5.00000	4.81	9060(a)
	66 1,3-Dichloropropane	76	6.280	6.280	(0.895)	142221	5.00000	4.93	7936(a)
	67 Tetrachloroethene	164	6.292	6.292	(0.896)	98567	5.00000	5.00	7076
	68 2-Hexanone	43	6.314	6.314	(0.900)	50178	5.00000	5.04	
	69 Dibromochloromethane	129	6.492	6.492	(0.925)	128043	5.00000	4.96	8724(a)
	70 1,2-Dibromoethane(EDB)	107	6.612	6.612	(0.942)	108668	5.00000	5.00	8846
*	71 CHLOROBENZENE-d5	82	7.018	7.018	(1.000)	1586592	50.0000		5640
	72 Chlorobenzene ++	112	7.047	7.047	(1.004)	301509	5.00000	4.77	3710(a)
	73 1,1,1,2-Tetrachloroethane	133	7.104	7.104	(1.012)	107815	5.00000	4.93	8038(a)
	74 Ethylbenzene +	106	7.127	7.127	(1.015)	154399	5.00000	4.92	(a)
	75 p,m-Xylene	106	7.236	7.236	(1.031)	367336	10.0000	9.89	
	76 o-Xylene	106	7.648	7.648	(1.090)	182332	5.00000	4.86	(a)
	77 Styrene	104	7.648	7.648	(1.090)	326089	5.00000	4.92	9125(a)
M	78 TOTAL XYLENE	106				549668	15.0000	14.7	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
79 Bromoform ++	173	7.854	7.854	(1.119)	96068	5.00000	5.10	8239
80 Isopropylbenzene	105	8.014	8.014	(1.142)	473333	5.00000	5.00	8823
$ 82 Bromofluorobenzene	174	8.192	8.192	(1.167)	144536	5.00000	5.00	8420
83 1,1,2,2-Tetrachloroethane++	83	8.306	8.306	(0.869)	112826	5.00000	5.00	9132
84 trans-1,4-Dichloro-2-Butene	53	8.363	8.363	(0.875)	24763	5.00000	5.08	8187
85 1,2,3-Trichloropropane	75	8.375	8.375	(0.877)	136702	5.00000	4.92	7874 (a)
86 Bromobenzene	77	8.386	8.386	(0.878)	210939	5.00000	4.87	8355 (a)
87 n-Propylbenzene	91	8.466	8.466	(0.886)	517262	5.00000	4.97	(a)
88 2-Chlorotoluene	91	8.592	8.592	(0.899)	355869	5.00000	4.92	(a)
89 1,3,5-Trimethylbenzene	105	8.655	8.655	(0.906)	337073	5.00000	4.96	8984 (a)
90 4-Chlorotoluene	91	8.707	8.707	(0.911)	353539	5.00000	4.95	(a)
91 tert-butylbenzene	91	9.050	9.050	(0.947)	261647	5.00000	4.99	8716 (a)
93 1,2,4-Trimethylbenzene	105	9.107	9.107	(0.953)	313590	5.00000	4.92	(a)
94 sec-Butylbenzene	105	9.314	9.314	(0.975)	491757	5.00000	5.00	
95 p-Isopropyltoluene	119	9.485	9.485	(0.993)	378415	5.00000	5.00	8914
96 1,3-Dichlorobenzene	146	9.485	9.485	(0.993)	259997	5.00000	4.91	(a)
* 97 1,4-DICHLOROBENZENE-D4	152	9.554	9.554	(1.000)	1675245	50.0000		4573
98 1,4-Dichlorobenzene	146	9.583	9.583	(1.003)	260941	5.00000	4.89	(a)
99 n-Butylbenzene	91	10.006	10.006	(1.047)	294055	5.00000	5.00	9392
100 1,2-Dichlorobenzene	146	10.069	10.069	(1.054)	245122	5.00000	4.88	(a)
101 1,2-Dibromo-3-Chloropropane	157	11.093	11.093	(1.161)	31654	5.00000	5.00	8038
103 1,2,4-Trichlorobenzene	180	12.273	12.273	(1.285)	121787	5.00000	5.00	
104 Hexachlorobutadiene	225	12.519	12.519	(1.310)	92132	5.00000	5.00	8310
105 Naphthalene	128	12.627	12.627	(1.322)	201089	5.00000	5.00	8650
106 1,2,3-Trichlorobenzene	180	12.988	12.988	(1.359)	104793	5.00000	5.00	

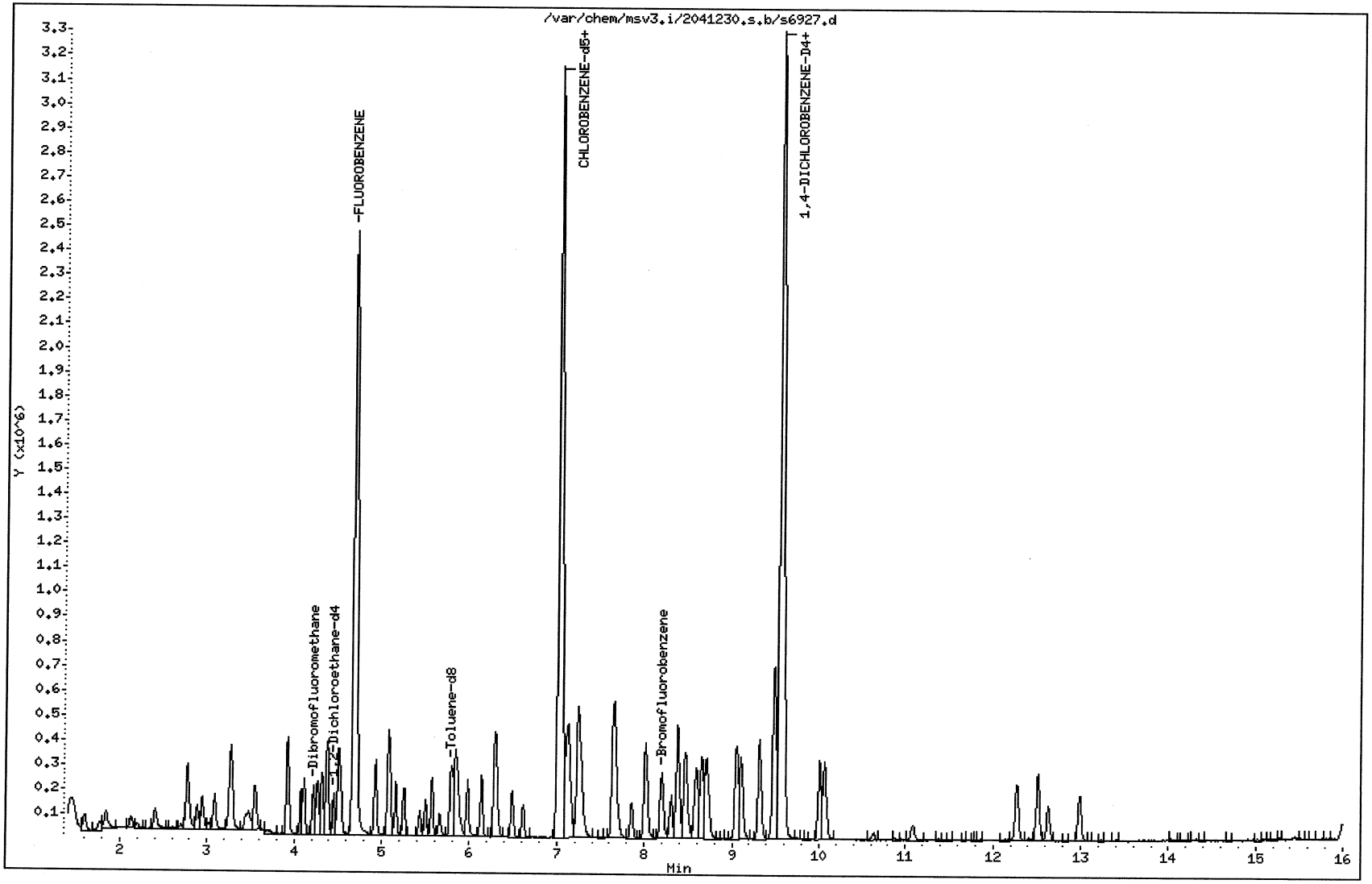
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/msv3.i/2041230.s.b/s6927.d
Date : 30-DEC-2004 12:50
Client ID: V3STD005
Sample Info: 1201*V3STD005*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

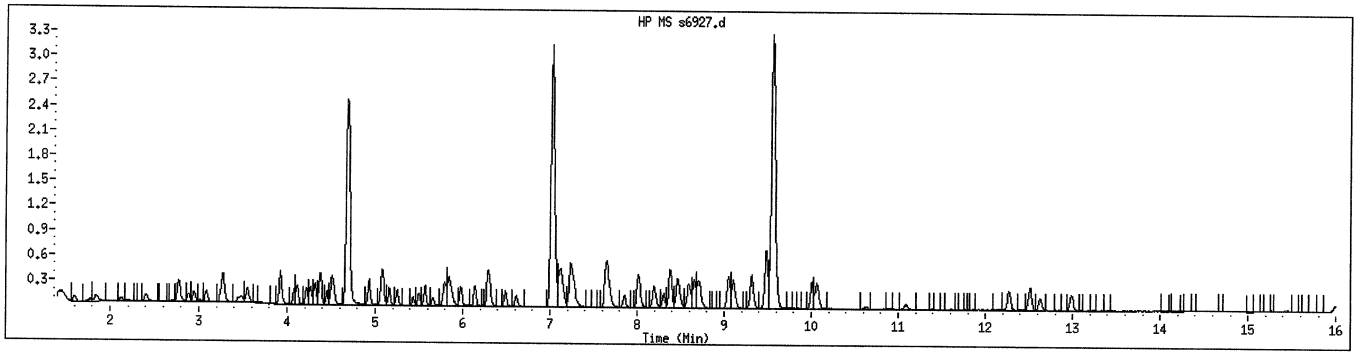


000126

Data file : /var/chem/msv3.i/2041230.s.b/s6927.d
Report Date: 12/31/2004 09:13

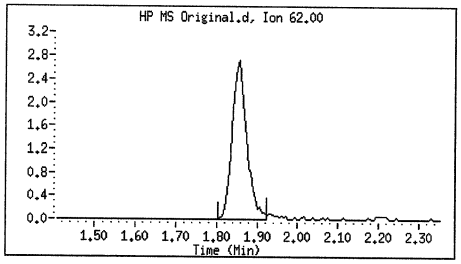
MANUAL INTEGRATION GRAPHIC REPORT

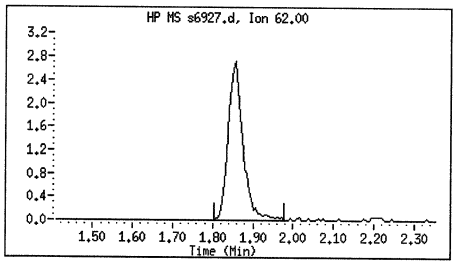
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 30-DEC-2004 12:50	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1201*V3STD005*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



Original | Final

3 Vinyl Chloride + CAS#: 75-01-4





GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6928.d
Lab Smp Id: 1202 Client Smp ID: V3STD020
Inj Date : 30-DEC-2004 13:11
Operator : RJO Inst ID: msv3.i
Smp Info : 1202*V3STD020*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:13 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 13:11 Cal File: s6928.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.598	1.598	(0.340)	338619	20.0000	20.5	9037
2 Chloromethane ++	50	1.776	1.776	(0.378)	216597	20.0000	18.5	8513
3 Vinyl Chloride +	62	1.850	1.850	(0.394)	267168	20.0000	20.2	9014
5 Bromomethane	94	2.125	2.125	(0.453)	179074	20.0000	22.3	9151
6 Chloroethane	64	2.205	2.205	(0.470)	88128	20.0000	20.0	8095
7 Trichlorofluoromethane	101	2.405	2.405	(0.512)	365739	20.0000	20.1	8796(H)
9 Acrolein	56	2.703	2.703	(0.576)	102763	100.000	100	7792
10 1,1,2Trichlotrifluoroethane	101	2.771	2.771	(0.590)	314499	20.0000	21.2	8385
11 1,1-Dichloroethene +	96	2.777	2.777	(0.592)	267656	20.0000	20.5	8568
12 Acetone	43	2.817	2.817	(0.600)	109579	20.0000	21.1	(a)
13 Methyl Iodide	142	2.886	2.886	(0.615)	613216	20.0000	22.3	9414
14 Carbon Disulfide	76	2.949	2.949	(0.628)	984857	20.0000	21.3	9474
17 Methyl Acetate	43	3.023	3.023	(0.644)	124208	20.0000	21.1	3341
18 Methylene Chloride	49	3.081	3.081	(0.656)	296249	20.0000	20.1	8273
20 Acrylonitrile	53	3.252	3.252	(0.693)	462754	100.000	104	7545

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	3.275	3.275	(0.698)	797942	20.0000	21.0	8658
	22 trans-1,2-Dichloroethene	61	3.275	3.275	(0.698)	375862	20.0000	21.1	
	24 Hexane	57	3.498	3.498	(0.745)	347479	20.0000	20.7	8978
	25 Vinyl Acetate	43	3.561	3.561	(0.759)	523978	20.0000	21.0	
	26 1,1-Dichloroethane ++	63	3.544	3.544	(0.755)	495209	20.0000	20.8	7361
M	30 Total 1,2-Dichloroethene	61				827812	40.0000	40.9	0
	32 2-Butanone	43	3.922	3.922	(0.835)	125607	20.0000	20.0	(a)
	34 cis-1,2-Dichloroethene	61	3.922	3.922	(0.835)	451950	20.0000	20.0	
	35 2,2-Dichloropropane	77	3.928	3.928	(0.837)	463531	20.0000	19.9	8381
	37 Bromochloromethane	128	4.076	4.076	(0.868)	214238	20.0000	20.2	7497
	38 Chloroform +	83	4.116	4.116	(0.877)	578554	20.0000	19.7	8371
$	39 Dibromofluoromethane	111	4.219	4.219	(0.899)	415076	20.0000	20.3	9086
	40 1,1,1-Trichloroethane	97	4.265	4.265	(0.909)	507422	20.0000	20.1	8579
	42 Cyclohexane	56	4.317	4.317	(0.920)	397692	20.0000	20.1	8806
	43 1,1-Dichloropropene	75	4.374	4.374	(0.932)	406292	20.0000	19.2	8241
	44 Carbon Tetrachloride	117	4.380	4.380	(0.933)	417791	20.0000	19.9	8133
$	45 1,2-Dichloroethane-d4	67	4.454	4.454	(0.949)	196343	20.0000	18.6	8777
	46 1,2-Dichloroethane	62	4.500	4.500	(0.959)	433999	20.0000	19.4	8681
	47 Benzene	78	4.529	4.529	(0.965)	1197213	20.0000	19.2	8884
*	48 FLUOROBENZENE	96	4.694	4.694	(1.000)	3360435	50.0000		8876
	49 Trichloroethene	130	4.935	4.935	(1.051)	447423	20.0000	20.2	8675
	51 Methyl Cyclohexane	83	5.078	5.078	(1.082)	568310	20.0000	20.2	8554
	52 1,2-Dichloropropane +	63	5.084	5.084	(1.083)	301879	20.0000	20.3	8433
	55 Dibromomethane	93	5.158	5.158	(1.099)	262706	20.0000	20.3	7816
	56 Bromodichloromethane	83	5.255	5.255	(1.119)	461965	20.0000	19.9	9045
	57 2-Chloroethyl vinyl ether	63	5.427	5.427	(1.156)	183784	20.0000	20.3	9187
	58 1-Bromo-2-chloroethane	63	5.501	5.501	(1.172)	442605	20.0000	20.1	8449
	59 cis-1,3-Dichloropropene	75	5.570	5.570	(1.187)	550640	20.0000	19.9	
	60 4-methyl-2-pentanone	43	5.656	5.656	(1.205)	258851	20.0000	20.9	
$	61 Toluene-d8	98	5.793	5.793	(1.234)	1350812	20.0000	19.9	9063
	62 Toluene +	91	5.845	5.845	(1.245)	1495275	20.0000	19.3	7732
	63 trans-1,3-Dichloropropene	75	5.977	5.977	(1.273)	553411	20.0000	20.2	
M	138 Total-1-3 Dichloropropene	100				1104051	40.0000	40.1	0
	65 1,1,2-Trichloroethane	97	6.137	6.137	(0.874)	349227	20.0000	19.9	9144
	66 1,3-Dichloropropane	76	6.286	6.286	(0.895)	524184	20.0000	19.6	7527
	67 Tetrachloroethene	164	6.297	6.297	(0.896)	378292	20.0000	20.2	6812
	68 2-Hexanone	43	6.314	6.314	(0.899)	189286	20.0000	20.2	
	69 Dibromochloromethane	129	6.492	6.492	(0.924)	483371	20.0000	20.0	8619
	70 1,2-Dibromoethane(EDB)	107	6.612	6.612	(0.941)	401095	20.0000	20.0	9572
*	71 CHLOROBENZENE-d5	82	7.024	7.024	(1.000)	1489578	50.0000		6238
	72 Chlorobenzene ++	112	7.053	7.053	(1.004)	1077041	20.0000	18.7	6655
	73 1,1,1,2-Tetrachloroethane	133	7.104	7.104	(1.011)	388186	20.0000	19.3	7747
	74 Ethylbenzene +	106	7.133	7.133	(1.015)	564619	20.0000	19.4	
	75 p,m-Xylene	106	7.247	7.247	(1.032)	1375697	40.0000	39.6	
	76 o-Xylene	106	7.648	7.648	(1.089)	668261	20.0000	19.3	
	77 Styrene	104	7.653	7.653	(1.090)	1174967	20.0000	19.3	9105
M	78 TOTAL XYLENE	106				2043958	60.0000	58.9	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
79 Bromoform ++	173	7.859	7.859	(1.119)	370065	20.0000	20.6	8343
80 Isopropylbenzene	105	8.014	8.014	(1.141)	1748080	20.0000	20.0	9023
$ 82 Bromofluorobenzene	174	8.197	8.197	(1.167)	530656	20.0000	19.8	8384
83 1,1,2,2-Tetrachloroethane++	83	8.306	8.306	(0.869)	423010	20.0000	19.9	9045
84 trans-1,4-Dichloro-2-Butene	53	8.369	8.369	(0.875)	94332	20.0000	20.3	7974
85 1,2,3-Trichloropropane	75	8.375	8.375	(0.876)	507417	20.0000	19.6	8036
86 Bromobenzene	77	8.380	8.380	(0.877)	776263	20.0000	19.3	8693
87 n-Propylbenzene	91	8.466	8.466	(0.886)	1969140	20.0000	20.0	
88 2-Chlorotoluene	91	8.592	8.592	(0.899)	1317587	20.0000	19.5	
89 1,3,5-Trimethylbenzene	105	8.655	8.655	(0.905)	1296952	20.0000	20.2	8984 (H)
90 4-Chlorotoluene	91	8.712	8.712	(0.911)	1329557	20.0000	19.8	
91 tert-butylbenzene	91	9.050	9.050	(0.947)	1008415	20.0000	20.3	8557
93 1,2,4-Trimethylbenzene	105	9.107	9.107	(0.953)	1212527	20.0000	20.1	(H)
94 sec-Butylbenzene	105	9.319	9.319	(0.975)	1873724	20.0000	20.1	
95 p-Isopropyltoluene	119	9.485	9.485	(0.992)	1448057	20.0000	20.1	8819
96 1,3-Dichlorobenzene	146	9.485	9.485	(0.992)	960396	20.0000	19.5	
* 97 1,4-DICHLOROBENZENE-D4	152	9.559	9.559	(1.000)	1580148	50.0000		5314
98 1,4-Dichlorobenzene	146	9.588	9.588	(1.003)	971465	20.0000	19.5	
99 n-Butylbenzene	91	10.011	10.011	(1.047)	1133405	20.0000	20.2	9366
100 1,2-Dichlorobenzene	146	10.069	10.069	(1.053)	912022	20.0000	19.5	
101 1,2-Dibromo-3-Chloropropane	157	11.093	11.093	(1.160)	130511	20.0000	20.0	8042
103 1,2,4-Trichlorobenzene	180	12.272	12.272	(1.284)	494148	20.0000	20.7	
104 Hexachlorobutadiene	225	12.518	12.518	(1.310)	392237	20.0000	21.2	8373
105 Naphthalene	128	12.633	12.633	(1.321)	890451	20.0000	20.0	8525
106 1,2,3-Trichlorobenzene	180	12.993	12.993	(1.359)	444999	20.0000	21.2	

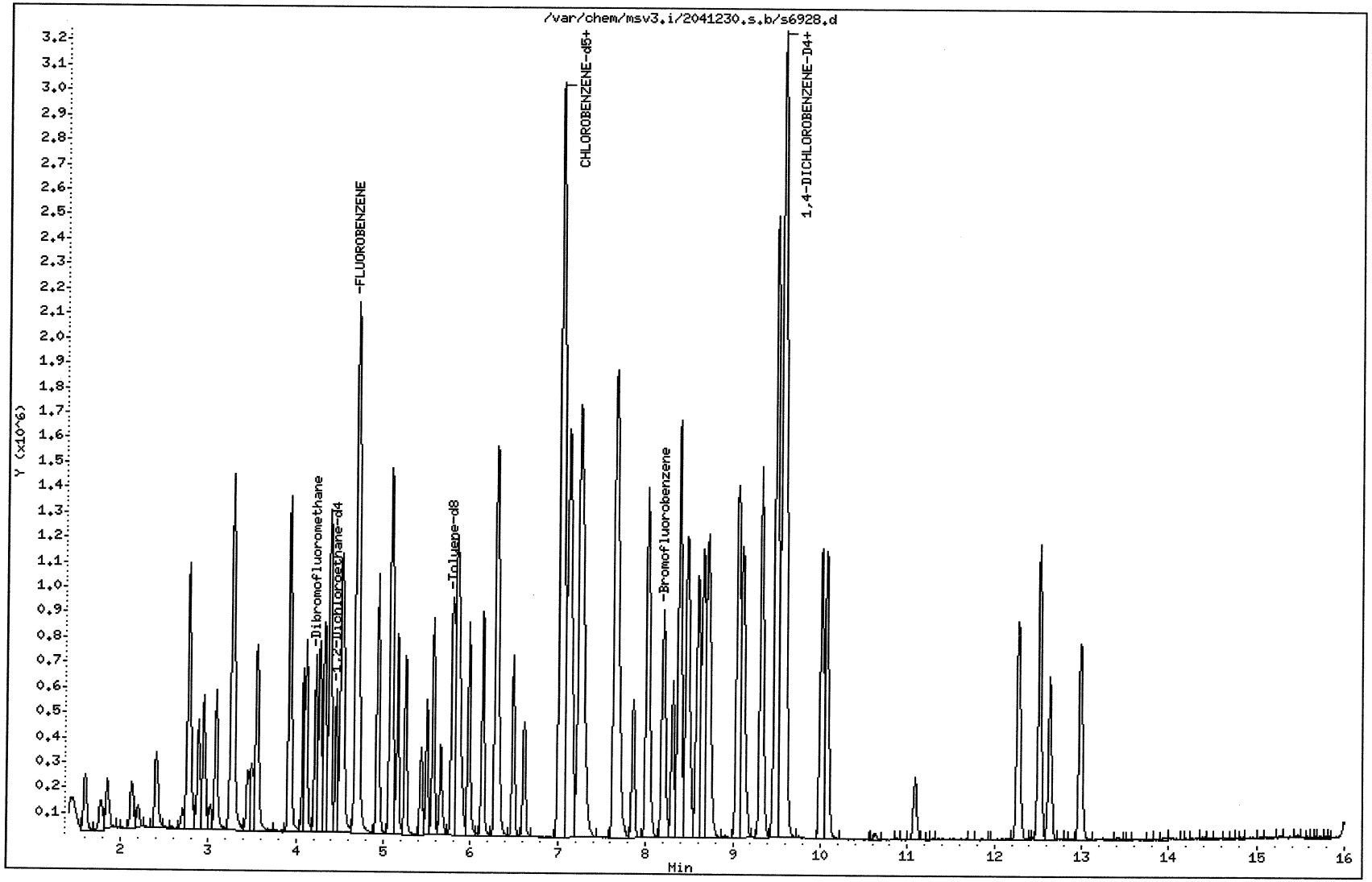
QC Flag Legend

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

Data File: /var/chem/msv3.i/2041230.s.b/s6928.d
Date : 30-DEC-2004 13:11
Client ID: V3STD020
Sample Info: 1202*V3STD020*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

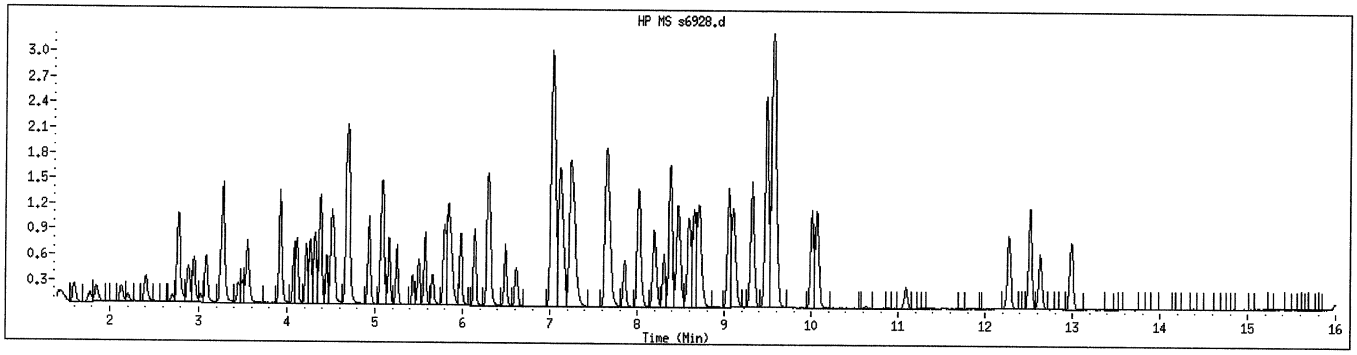


000131

Data file : /var/chem/msv3.i/2041230.s.b/s6928.d
Report Date: 12/31/2004 09:13

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 30-DEC-2004 13:11	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1202*V3STD020*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6931.d
Lab Smp Id: 1203 Client Smp ID: V3STD050
Inj Date : 30-DEC-2004 14:17
Operator : RJO Inst ID: msv3.i
Smp Info : 1203*V3STD050*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:14 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 14:17 Cal File: s6931.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.598	1.598	(0.341)	795679	50.0000	49.2	9420
2 Chloromethane ++	50	1.781	1.781	(0.380)	477445	50.0000	43.4	9173
3 Vinyl Chloride +	62	1.850	1.850	(0.395)	616879	50.0000	44.5	9298
5 Bromomethane	94	2.130	2.130	(0.454)	372214	50.0000	47.9	9615
6 Chloroethane	64	2.199	2.199	(0.469)	191469	50.0000	50.0	8677
7 Trichlorofluoromethane	101	2.405	2.405	(0.513)	837799	50.0000	47.6	8754(H)
9 Acrolein	56	2.703	2.703	(0.576)	259562	250.000	250	9045(A)
10 1,1,2Trichlotrifluoroethane	101	2.771	2.771	(0.591)	701855	50.0000	48.7	8326
11 1,1-Dichloroethene +	96	2.771	2.771	(0.591)	603405	50.0000	47.9	8310
12 Acetone	43	2.817	2.817	(0.601)	227816	50.0000	46.4	
13 Methyl Iodide	142	2.880	2.880	(0.614)	1353651	50.0000	50.0	9498
14 Carbon Disulfide	76	2.943	2.943	(0.628)	2136489	50.0000	47.9	9357
17 Methyl Acetate	43	3.023	3.023	(0.645)	278262	50.0000	48.8	3312(H)
18 Methylene Chloride	49	3.086	3.086	(0.658)	656908	50.0000	46.8	8328
20 Acrylonitrile	53	3.252	3.252	(0.694)	1030177	250.000	240	7848(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	3.275	3.275	(0.698)	1794080	50.0000	48.6	8757
	22 trans-1,2-Dichloroethene	61	3.275	3.275	(0.698)	819262	50.0000	47.6	
	24 Hexane	57	3.492	3.492	(0.745)	736667	50.0000	46.3	9068
	25 Vinyl Acetate	43	3.561	3.561	(0.760)	1175615	50.0000	48.4	
	26 1,1-Dichloroethane ++	63	3.544	3.544	(0.756)	1127124	50.0000	48.7	7303
M	30 Total 1,2-Dichloroethene	61				1856217	100.000	95.0	0
	32 2-Butanone	43	3.927	3.927	(0.838)	273311	50.0000	49.7	(H)
	34 cis-1,2-Dichloroethene	61	3.922	3.922	(0.836)	1036955	50.0000	47.4	
	35 2,2-Dichloropropane	77	3.933	3.933	(0.839)	1043009	50.0000	46.6	8403
	37 Bromochloromethane	128	4.076	4.076	(0.869)	475375	50.0000	46.6	7436
	38 Chloroform +	83	4.110	4.110	(0.877)	1330427	50.0000	47.1	8924
$	39 Dibromofluoromethane	111	4.219	4.219	(0.900)	1045141	50.0000	51.6	9232
	40 1,1,1-Trichloroethane	97	4.265	4.265	(0.910)	1323247	50.0000	52.5	8334
	42 Cyclohexane	56	4.316	4.316	(0.921)	939396	50.0000	48.7	8890
	43 1,1-Dichloropropene	75	4.374	4.374	(0.933)	1002910	50.0000	48.7	8266
	44 Carbon Tetrachloride	117	4.379	4.379	(0.934)	1095432	50.0000	52.2	8113
$	45 1,2-Dichloroethane-d4	67	4.454	4.454	(0.950)	508792	50.0000	49.3	8654
	46 1,2-Dichloroethane	62	4.500	4.500	(0.960)	1123892	50.0000	50.8	8766
	47 Benzene	78	4.523	4.523	(0.965)	2846098	50.0000	47.2	8876
*	48 FLUOROBENZENE	96	4.689	4.689	(1.000)	3301044	50.0000		8844
	49 Trichloroethene	130	4.935	4.935	(1.052)	1023439	50.0000	47.7	8578
	51 Methyl Cyclohexane	83	5.089	5.089	(1.085)	1251366	50.0000	46.8	8615
	52 1,2-Dichloropropane +	63	5.083	5.083	(1.084)	694945	50.0000	48.3	8566
	55 Dibromomethane	93	5.158	5.158	(1.100)	628944	50.0000	49.7	7787
	56 Bromodichloromethane	83	5.249	5.249	(1.120)	1144232	50.0000	48.1	9068
	57 2-Chloroethyl vinyl ether	63	5.433	5.433	(1.159)	451631	50.0000	50.5	9130
	58 1-Bromo-2-chloroethane	63	5.501	5.501	(1.173)	1069524	50.0000	49.5	8501
	59 cis-1,3-Dichloropropene	75	5.570	5.570	(1.188)	1301263	50.0000	48.4	
	60 4-methyl-2-pentanone	43	5.656	5.656	(1.206)	605334	50.0000	49.9	
$	61 Toluene-d8	98	5.799	5.799	(1.237)	3188997	50.0000	48.5	9048
	62 Toluene +	91	5.845	5.845	(1.247)	3494574	50.0000	46.8	7822
	63 trans-1,3-Dichloropropene	75	5.982	5.982	(1.276)	1325500	50.0000	49.5	
M	138 Total-1-3 Dichloropropene	100				2626763	100.000	98.1	0
	65 1,1,2-Trichloroethane	97	6.137	6.137	(0.874)	818384	50.0000	48.6	9157
	66 1,3-Dichloropropane	76	6.285	6.285	(0.895)	1231998	50.0000	48.1	7814
	67 Tetrachloroethene	164	6.297	6.297	(0.896)	864924	50.0000	48.4	6952
	68 2-Hexanone	43	6.308	6.308	(0.898)	427578	50.0000	47.7	
	69 Dibromochloromethane	129	6.491	6.491	(0.924)	1194769	50.0000	49.3	8740
	70 1,2-Dibromoethane(EDB)	107	6.612	6.612	(0.941)	976678	50.0000	50.0	9780
*	71 CHLOROBENZENE-d5	82	7.024	7.024	(1.000)	1443739	50.0000		7068
	72 Chlorobenzene ++	112	7.052	7.052	(1.004)	2523849	50.0000	46.4	8341
	73 1,1,1,2-Tetrachloroethane	133	7.109	7.109	(1.012)	941517	50.0000	47.1	8406
	74 Ethylbenzene +	106	7.132	7.132	(1.015)	1302424	50.0000	47.1	
	75 p,m-Xylene	106	7.241	7.241	(1.031)	3201718	100.000	96.3	
	76 o-Xylene	106	7.642	7.642	(1.088)	1565334	50.0000	47.4	
	77 Styrene	104	7.659	7.659	(1.090)	2805298	50.0000	48.0	9134
M	78 TOTAL XYLENE	106				4767052	150.000	144	0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	79 Bromoform ++	173	7.854	7.854	(1.118)	913851	50.0000	51.9	8516
	80 Isopropylbenzene	105	8.020	8.020	(1.142)	4038212	50.0000	49.7	8991
$	82 Bromofluorobenzene	174	8.197	8.197	(1.167)	1263337	50.0000	49.0	8545
	83 1,1,2,2-Tetrachloroethane++	83	8.306	8.306	(0.869)	1048424	50.0000	51.1	9030
	84 trans-1,4-Dichloro-2-Butene	53	8.369	8.369	(0.875)	229028	50.0000	51.4	7915
	85 1,2,3-Trichloropropane	75	8.374	8.374	(0.876)	1265173	50.0000	50.9	8043
	86 Bromobenzene	77	8.380	8.380	(0.877)	1830678	50.0000	48.4	8685
	87 n-Propylbenzene	91	8.472	8.472	(0.886)	4461324	50.0000	48.2	
	88 2-Chlorotoluene	91	8.598	8.598	(0.899)	3011042	50.0000	47.6	
	89 1,3,5-Trimethylbenzene	105	9.107	9.107	(0.953)	2783841	50.0000	46.5	9018
	90 4-Chlorotoluene	91	8.712	8.712	(0.911)	3087213	50.0000	48.7	
	91 tert-butylbenzene	91	9.055	9.055	(0.947)	2276099	50.0000	48.5	8596
	93 1,2,4-Trimethylbenzene	105	9.107	9.107	(0.953)	2783841	50.0000	48.8	
	94 sec-Butylbenzene	105	9.319	9.319	(0.975)	4266628	50.0000	48.7	
	95 p-Isopropyltoluene	119	9.485	9.485	(0.992)	3222910	50.0000	48.0	8863
	96 1,3-Dichlorobenzene	146	9.485	9.485	(0.992)	2179554	50.0000	47.2	
*	97 1,4-DICHLOROBENZENE-D4	152	9.559	9.559	(1.000)	1505054	50.0000		6266
	98 1,4-Dichlorobenzene	146	9.588	9.588	(1.003)	2204154	50.0000	47.3	
	99 n-Butylbenzene	91	10.011	10.011	(1.047)	2493146	50.0000	47.7	9388
	100 1,2-Dichlorobenzene	146	10.068	10.068	(1.053)	2048982	50.0000	46.9	
	101 1,2-Dibromo-3-Chloropropane	157	11.087	11.087	(1.160)	282701	50.0000	49.4	8130
	103 1,2,4-Trichlorobenzene	180	12.272	12.272	(1.284)	992714	50.0000	45.6	
	104 Hexachlorobutadiene	225	12.512	12.512	(1.309)	784544	50.0000	46.2	8471
	105 Naphthalene	128	12.627	12.627	(1.321)	1838720	50.0000	50.0	8561
	106 1,2,3-Trichlorobenzene	180	12.987	12.987	(1.359)	916296	50.0000	47.1	

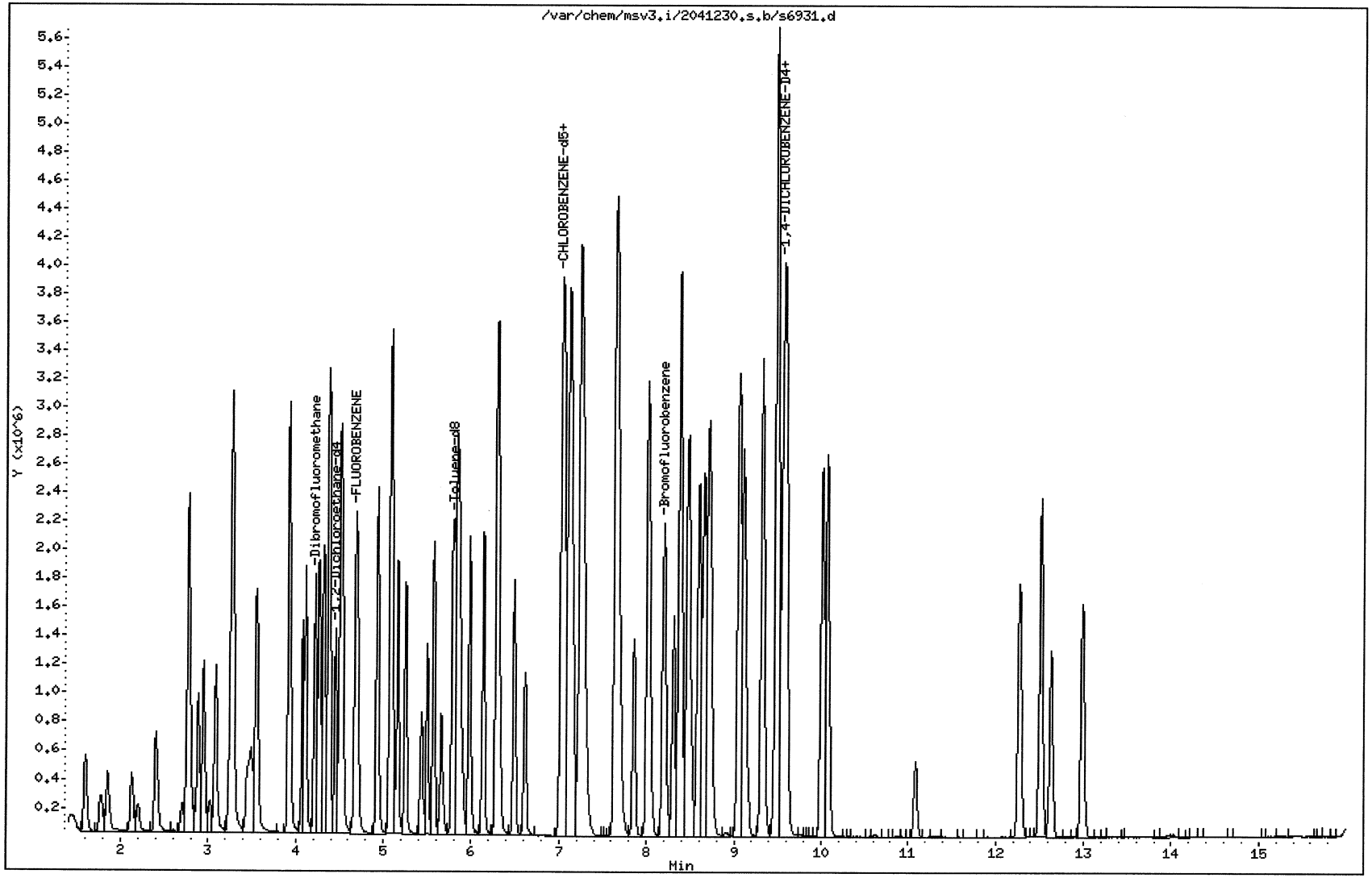
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv3.i/2041230.s.b/s6931.d
Date : 30-DEC-2004 14:17
Client ID: V3STD050
Sample Info: 1203*V3STD050*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

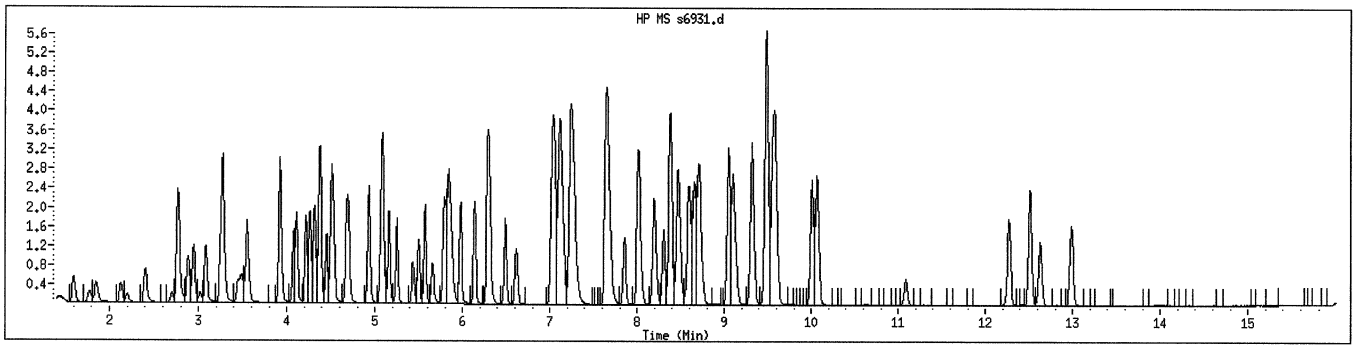


000136

Data file : /var/chem/msv3.i/2041230.s.b/s6931.d
Report Date: 12/31/2004 09:14

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 30-DEC-2004 14:17	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1203*V3STD050*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6929.d
Lab Smp Id: 1207 Client Smp ID: V3STD0.200
Inj Date : 30-DEC-2004 13:33
Operator : RJO Inst ID: msv3.i
Smp Info : 1207*V3STD0.200*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:13 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 13:33 Cal File: s6929.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
12 Acetone	43	2.834	2.834	(0.605)	9283	0.20000	1.77	(a)
17 Methyl Acetate	43	3.017	3.017	(0.644)	1530	0.20000	0.258	2985(a)
20 Acrylonitrile	53	3.252	3.252	(0.694)	10656	0.20000	2.37	3426(a)
21 MTBE	73	3.275	3.275	(0.699)	13775	0.20000	0.360	8085(a)
24 Hexane	57	3.475	3.475	(0.742)	7626	0.20000	0.450	4080(a)
38 Chloroform +	83	4.111	4.111	(0.878)	33144	0.20000	1.12	8315(a)
$ 39 Dibromofluoromethane	111	4.214	4.214	(0.900)	8358	0.20000	0.406	3818(a)
40 1,1,1-Trichloroethane	97	4.689	4.689	(1.001)	226600	0.20000	8.90	1529
42 Cyclohexane	56	4.322	4.322	(0.923)	12250	0.20000	0.613	7513(a)
* 48 FLUOROBENZENE	96	4.683	4.683	(1.000)	3390733	50.0000		8804
51 Methyl Cyclohexane	83	5.078	5.078	(1.084)	14988	0.20000	0.528	8308(a)
58 1-Bromo-2-chloroethane	63	5.501	5.501	(1.175)	7961	0.20000	0.358	7951(a)
60 4-methyl-2-pentanone	43	5.662	5.662	(1.209)	20380	0.20000	1.63	(a)
M 138 Total-1-3 Dichloropropene	100				19086	0.40000	0.687	0(a)
68 2-Hexanone	43	6.320	6.320	(0.900)	31800	0.20000	3.53	(a)

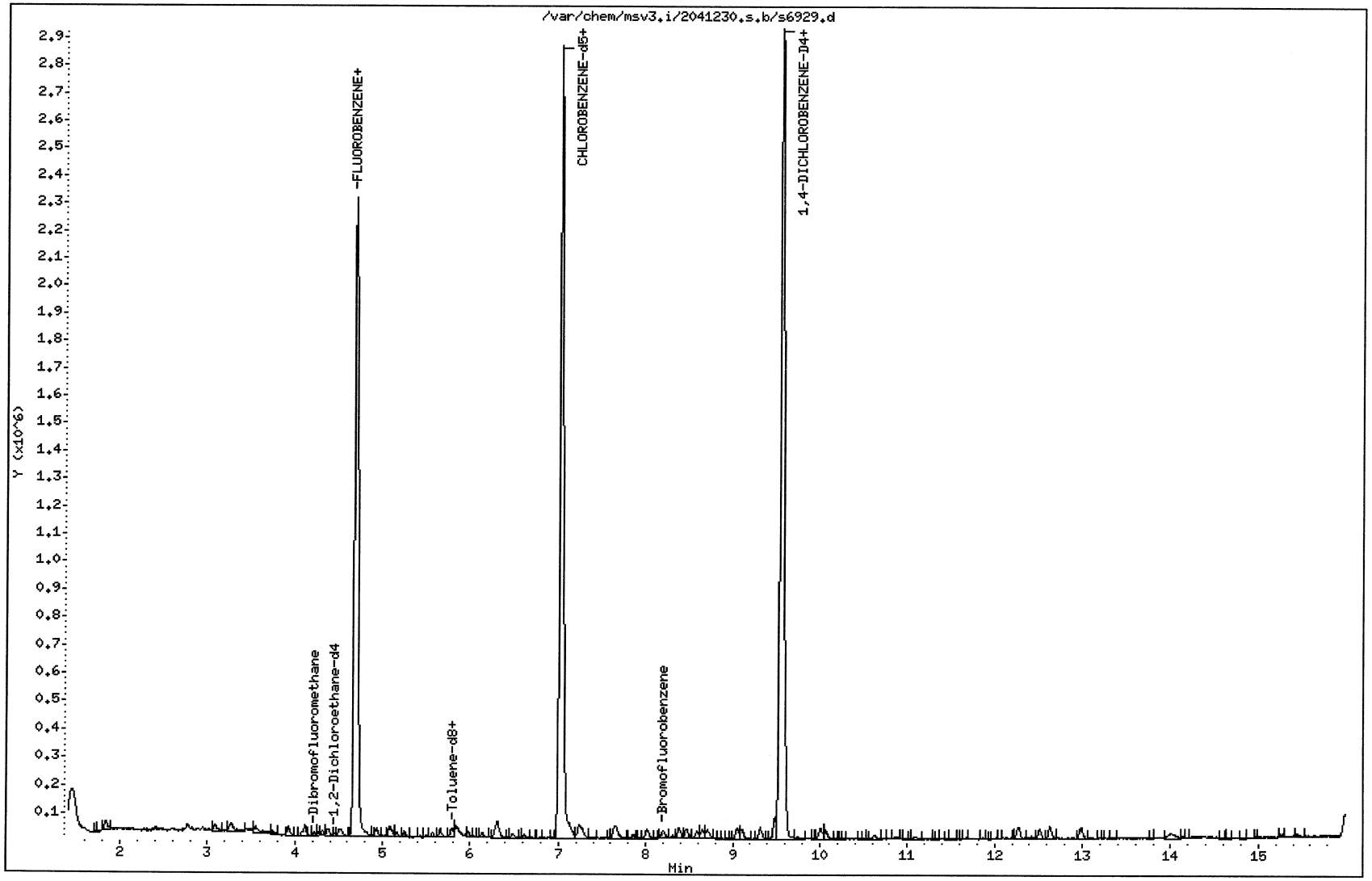
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
* 71 CHLOROBENZENE-d5	82	7.018	7.018	(1.000)	1429744	50.0000		5537
73 1,1,1,2-Tetrachloroethane	133	7.104	7.104	(1.012)	8300	0.20000	0.429	6944 (a)
75 p,m-Xylene	106	7.235	7.235	(1.031)	33944	0.40000	1.02	(a)
M 78 TOTAL XYLENE	106				48027	0.20000	1.44	0 (a)
* 97 1,4-DICHLOROBENZENE-D4	152	9.553	9.553	(1.000)	1499563	50.0000		4442
101 1,2-Dibromo-3-Chloropropane	157	11.082	11.082	(1.160)	3827	0.20000	0.653	6427 (a)
105 Naphthalene	128	12.633	12.633	(1.322)	58356	0.20000	1.26	8518 (a)
106 1,2,3-Trichlorobenzene	180	12.987	12.987	(1.359)	21670	0.20000	1.09	(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv3.i/2041230.s.b/s6929.d
Date : 30-DEC-2004 13:33
Client ID: V3STD0.200
Sample Info: 1207*V3STD0.200*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i
Operator: RJO
Column diameter: 0.53

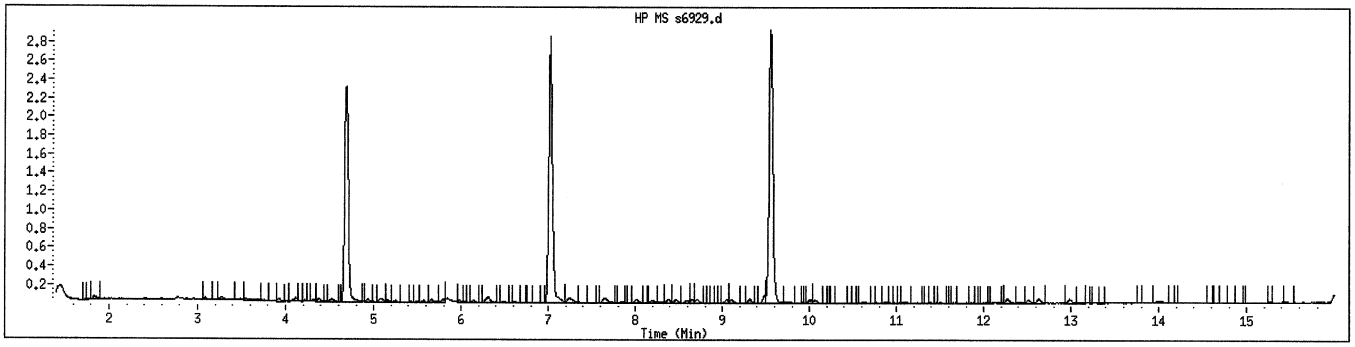


000140

Data file : /var/chem/msv3.i/2041230.s.b/s6929.d
Report Date: 12/31/2004 09:14

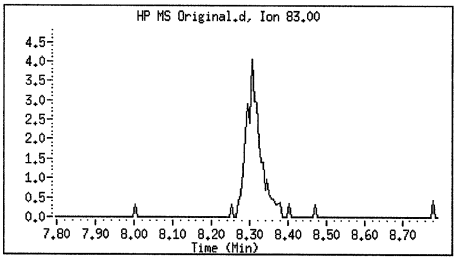
MANUAL INTEGRATION GRAPHIC REPORT

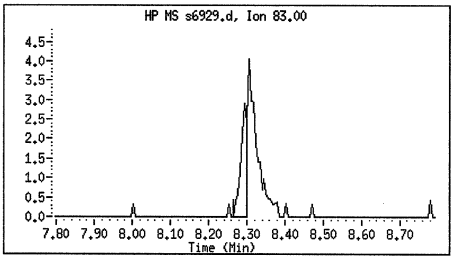
Lab ID	: 1207	SampleType	: CALIB_7
Injection Date	: 30-DEC-2004 13:33	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1207*V3STD0.200*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



Original Final

83 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5





GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6930.d
Lab Smp Id: 1208 Client Smp ID: V3STD0.400
Inj Date : 30-DEC-2004 13:55
Operator : RJO Inst ID: msv3.i
Smp Info : 1208*V3STD0.400*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:14 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 13:55 Cal File: s6930.d
Als bottle: 5 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
17 Methyl Acetate	43	3.031	3.031	(0.647)	4219	0.40000	0.687	2979(a)
20 Acrylonitrile	53	3.254	3.254	(0.695)	11967	0.40000	2.57	3968(a)
21 MTBE	73	3.277	3.277	(0.699)	19218	0.40000	0.485	8846(a)
24 Hexane	57	3.500	3.500	(0.747)	5615	0.40000	0.320	4587(a)
M 30 Total 1,2-Dichloroethene	61				22735	0.80000	1.08	0(a)
38 Chloroform +	83	4.118	4.118	(0.879)	31427	0.40000	1.03	8158(a)
$ 39 Dibromofluoromethane	111	4.221	4.221	(0.901)	9715	0.40000	0.455	4692(a)
40 1,1,1-Trichloroethane	97	4.685	4.685	(1.000)	244264	0.40000	9.26	1514
42 Cyclohexane	56	4.319	4.319	(0.922)	14446	0.40000	0.698	8113(a)
* 48 FLUOROBENZENE	96	4.685	4.685	(1.000)	3511396	50.0000		8756
51 Methyl Cyclohexane	83	5.074	5.074	(1.083)	20775	0.40000	0.707	8402(a)
58 1-Bromo-2-chloroethane	63	5.503	5.503	(1.175)	10748	0.40000	0.467	7466(a)
M 138 Total-1-3 Dichloropropene	100				26214	0.80000	0.911	0(a)
* 71 CHLOROBENZENE-d5	82	7.020	7.020	(1.000)	1472865	50.0000		5541
73 1,1,1,2-Tetrachloroethane	133	7.106	7.106	(1.012)	9219	0.40000	0.445	7636(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
75 p,m-Xylene	106	7.237	7.237	(1.031)	41945	0.80000	1.22	(a)
M 78 TOTAL XYLENE	106				61481	1.20000	1.79	0(a)
* 97 1,4-DICHLOROBENZENE-D4	152	9.555	9.555	(1.000)	1567505	50.0000		4434
101 1,2-Dibromo-3-Chloropropane	157	11.095	11.095	(1.161)	3847	0.40000	0.563	5448(aM)

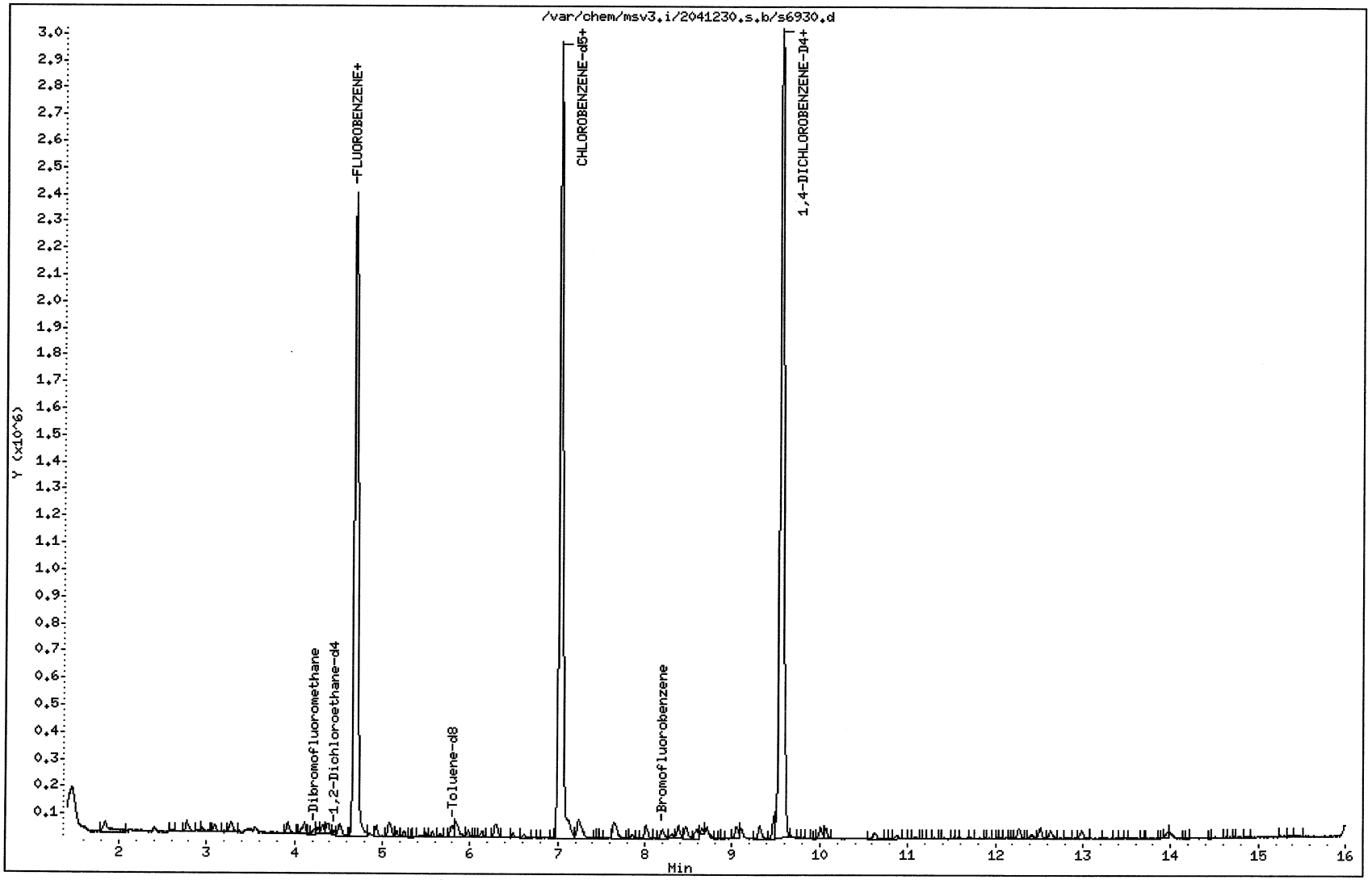
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/msv3.i/2041230.s.b/s6930.d
Date : 30-DEC-2004 13:55
Client ID: V3STD0.400
Sample Info: 1208*V3STD0.400*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

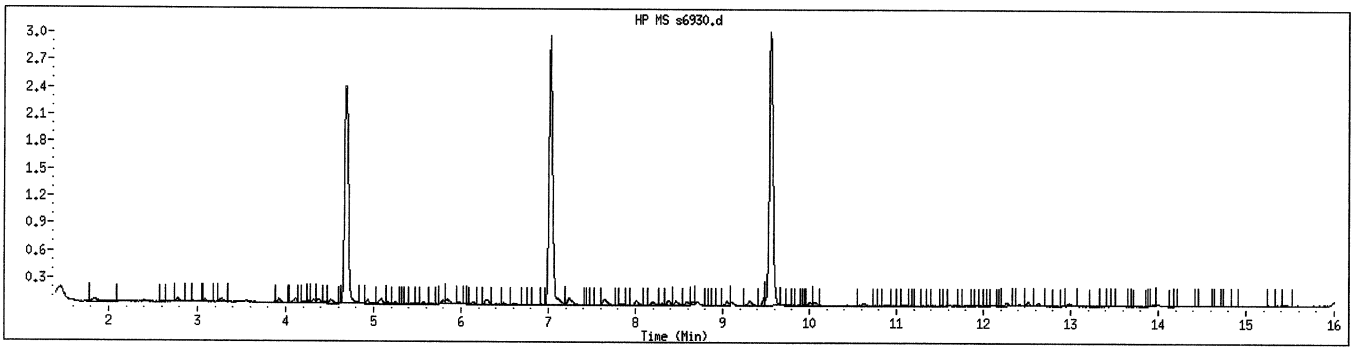
Operator: RJO
Column diameter: 0.53



Data file : /var/chem/msv3.i/2041230.s.b/s6930.d
Report Date: 12/31/2004 09:14

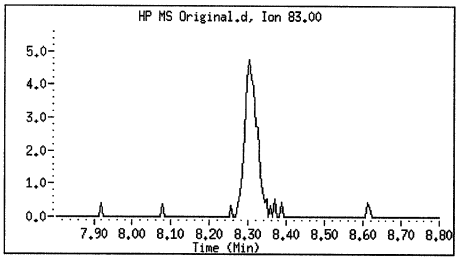
MANUAL INTEGRATION GRAPHIC REPORT

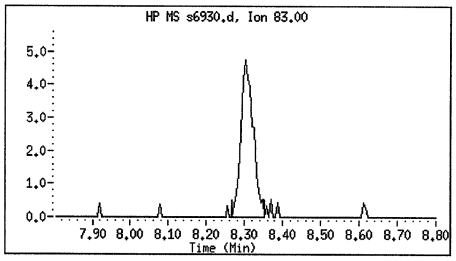
Lab ID	: 1208	SampleType	: CALIB_8
Injection Date	: 30-DEC-2004 13:55	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1208*V3STD0.400*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



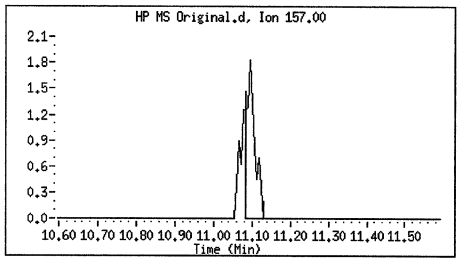
Original | Final

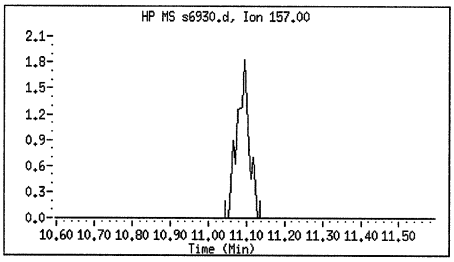
83 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5





101 1,2-Dibromo-3-Chloropropane CAS#: 96-12-8





GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6932.d
Lab Smp Id: 1204 Client Smp ID: V3STD100
Inj Date : 30-DEC-2004 14:39
Operator : RJO Inst ID: msv3.i
Smp Info : 1204*V3STD100*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:14 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 14:39 Cal File: s6932.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.593	1.593	(0.340)	1479197	100.000	95.6	9020
2 Chloromethane ++	50	1.771	1.771	(0.378)	916705	100.000	88.5	9392
3 Vinyl Chloride +	62	1.851	1.851	(0.395)	1178168	100.000	89.6	9194
5 Bromomethane	94	2.120	2.120	(0.452)	330695	100.000	49.5	9661
6 Chloroethane	64	2.188	2.188	(0.467)	261080	100.000	98.4	8839
7 Trichlorofluoromethane	101	2.394	2.394	(0.511)	1958806	100.000	112	8689(H)
9 Acrolein	56	2.692	2.692	(0.574)	587206	500.000	500	9711(A)
10 1,1,2Trichlotrifluoroethane	101	2.766	2.766	(0.590)	1371971	100.000	98.7	8291
11 1,1-Dichloroethene +	96	2.772	2.772	(0.591)	1164315	100.000	96.6	8407
12 Acetone	43	2.806	2.806	(0.598)	434218	100.000	93.3	
13 Methyl Iodide	142	2.881	2.881	(0.614)	2735466	100.000	103	9257
14 Carbon Disulfide	76	2.938	2.938	(0.627)	4128070	100.000	96.7	9319
17 Methyl Acetate	43	3.013	3.013	(0.642)	592923	100.000	105	3288(H)
18 Methylene Chloride	49	3.081	3.081	(0.657)	1235073	100.000	92.9	8354
20 Acrylonitrile	53	3.241	3.241	(0.691)	1981666	500.000	482	9433(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	3.270	3.270	(0.697)	3435335	100.000	96.8	8669
	22 trans-1,2-Dichloroethene	61	3.276	3.276	(0.699)	1550467	100.000	94.3	
	24 Hexane	57	3.482	3.482	(0.742)	1525442	100.000	99.2	9253
	25 Vinyl Acetate	43	3.556	3.556	(0.758)	2146984	100.000	92.9	
	26 1,1-Dichloroethane ++	63	3.545	3.545	(0.756)	2117861	100.000	95.5	7970
M	30 Total 1,2-Dichloroethene	61				3445284	200.000	185	0
	32 2-Butanone	43	3.917	3.917	(0.835)	519120	100.000	100	
	34 cis-1,2-Dichloroethene	61	3.917	3.917	(0.835)	1894817	100.000	91.4	
	35 2,2-Dichloropropane	77	3.928	3.928	(0.838)	1977747	100.000	92.9	8431
	37 Bromochloromethane	128	4.077	4.077	(0.869)	944356	100.000	96.4	7314
	38 Chloroform +	83	4.111	4.111	(0.877)	2558741	100.000	94.8	8770
$	39 Dibromofluoromethane	111	4.214	4.214	(0.899)	1802997	100.000	93.4	9269
	40 1,1,1-Trichloroethane	97	4.260	4.260	(0.908)	2312577	100.000	95.7	8532
	42 Cyclohexane	56	4.312	4.312	(0.919)	1714467	100.000	93.3	8842
	43 1,1-Dichloropropene	75	4.369	4.369	(0.932)	1781166	100.000	91.2	8522
	44 Carbon Tetrachloride	117	4.380	4.380	(0.934)	1890602	100.000	94.4	7871
$	45 1,2-Dichloroethane-d4	67	4.449	4.449	(0.949)	893631	100.000	91.3	8786
	46 1,2-Dichloroethane	62	4.501	4.501	(0.960)	1913701	100.000	91.2	8118
	47 Benzene	78	4.518	4.518	(0.963)	5145973	100.000	90.3	8807
*	48 FLUOROBENZENE	96	4.689	4.689	(1.000)	3197564	50.0000		8834
	49 Trichloroethene	130	4.930	4.930	(1.051)	1845584	100.000	90.8	8804
	51 Methyl Cyclohexane	83	5.084	5.084	(1.084)	2364922	100.000	93.3	8699
	52 1,2-Dichloropropane +	63	5.079	5.079	(1.083)	1267515	100.000	93.1	8421
	55 Dibromomethane	93	5.159	5.159	(1.100)	1115949	100.000	92.7	7738
	56 Bromodichloromethane	83	5.250	5.250	(1.120)	2039038	100.000	90.2	9082
	57 2-Chloroethyl vinyl ether	63	5.428	5.428	(1.157)	880883	100.000	101	8987
	58 1-Bromo-2-chloroethane	63	5.496	5.496	(1.172)	1996936	100.000	96.3	8410
	59 cis-1,3-Dichloropropene	75	5.565	5.565	(1.187)	2420461	100.000	94.3	
	60 4-methyl-2-pentanone	43	5.657	5.657	(1.206)	1141761	100.000	97.8	
$	61 Toluene-d8	98	5.794	5.794	(1.236)	5891535	100.000	94.2	9011
	62 Toluene +	91	5.846	5.846	(1.247)	6526750	100.000	92.1	6993
	63 trans-1,3-Dichloropropene	75	5.977	5.977	(1.275)	2473352	100.000	96.5	
M	138 Total-1-3 Dichloropropene	100				4893813	200.000	191	0
	65 1,1,2-Trichloroethane	97	6.137	6.137	(0.874)	1501234	100.000	94.9	9108
	66 1,3-Dichloropropane	76	6.286	6.286	(0.896)	2230052	100.000	92.9	7334
	67 Tetrachloroethene	164	6.298	6.298	(0.897)	1609406	100.000	95.9	6466
	68 2-Hexanone	43	6.309	6.309	(0.899)	837898	100.000	98.5	
	69 Dibromochloromethane	129	6.492	6.492	(0.925)	2167104	100.000	94.8	8738
	70 1,2-Dibromoethane(EDB)	107	6.612	6.612	(0.942)	1828942	100.000	99.7	9778
*	71 CHLOROBENZENE-d5	82	7.019	7.019	(1.000)	1374852	50.0000		7234
	72 Chlorobenzene ++	112	7.047	7.047	(1.004)	4619036	100.000	91.1	8729
	73 1,1,1,2-Tetrachloroethane	133	7.105	7.105	(1.012)	1731669	100.000	92.3	7746
	74 Ethylbenzene +	106	7.133	7.133	(1.016)	2429516	100.000	93.8	
	75 p,m-Xylene	106	7.242	7.242	(1.032)	5846770	200.000	188	
	76 o-Xylene	106	7.648	7.648	(1.090)	2858381	100.000	92.7	
	77 Styrene	104	7.654	7.654	(1.091)	5082921	100.000	93.0	9125
M	78 TOTAL XYLENE	106				8705151	300.000	280	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
79 Bromoform ++	173	7.854	7.854	(1.119)	1737970	100.000	103	8511
80 Isopropylbenzene	105	8.020	8.020	(1.143)	7399373	100.000	99.2	9003
$ 82 Bromofluorobenzene	174	8.198	8.198	(1.168)	2327705	100.000	96.1	8423
83 1,1,2,2-Tetrachloroethane++	83	8.307	8.307	(0.869)	1911726	100.000	97.4	9010
84 trans-1,4-Dichloro-2-Butene	53	8.370	8.370	(0.875)	430488	100.000	100	7948
85 1,2,3-Trichloropropane	75	8.375	8.375	(0.876)	2255824	100.000	95.6	7911
86 Bromobenzene	77	8.381	8.381	(0.877)	3320492	100.000	93.0	8584
87 n-Propylbenzene	91	8.478	8.478	(0.887)	8236920	100.000	94.1	
88 2-Chlorotoluene	91	8.598	8.598	(0.899)	5456315	100.000	91.8	
89 1,3,5-Trimethylbenzene	105	8.667	8.667	(0.907)	4910544	100.000	88.0	9002(H)
90 4-Chlorotoluene	91	8.713	8.713	(0.911)	5669118	100.000	94.5	
91 tert-butylbenzene	91	9.056	9.056	(0.947)	4189262	100.000	94.3	8621
93 1,2,4-Trimethylbenzene	105	9.108	9.108	(0.953)	4374411	100.000	83.3	
94 sec-Butylbenzene	105	9.320	9.320	(0.975)	7893869	100.000	95.3	
95 p-Isopropyltoluene	119	9.491	9.491	(0.993)	5712595	100.000	91.2	8833
96 1,3-Dichlorobenzene	146	9.486	9.486	(0.992)	4037776	100.000	92.8	
* 97 1,4-DICHLOROBENZENE-D4	152	9.560	9.560	(1.000)	1444743	50.0000		7009
98 1,4-Dichlorobenzene	146	9.589	9.589	(1.003)	4096552	100.000	93.2	
99 n-Butylbenzene	91	10.012	10.012	(1.047)	4077550	100.000	85.3	9415
100 1,2-Dichlorobenzene	146	10.069	10.069	(1.053)	3875879	100.000	93.9	
101 1,2-Dibromo-3-Chloropropane	157	11.094	11.094	(1.160)	599847	100.000	102	8041
103 1,2,4-Trichlorobenzene	180	12.273	12.273	(1.284)	1681043	100.000	84.6	
104 Hexachlorobutadiene	225	12.519	12.519	(1.310)	1495866	100.000	93.7	8424
105 Naphthalene	128	12.628	12.628	(1.321)	3229184	100.000	100	8567
106 1,2,3-Trichlorobenzene	180	12.988	12.988	(1.359)	1583073	100.000	88.1	

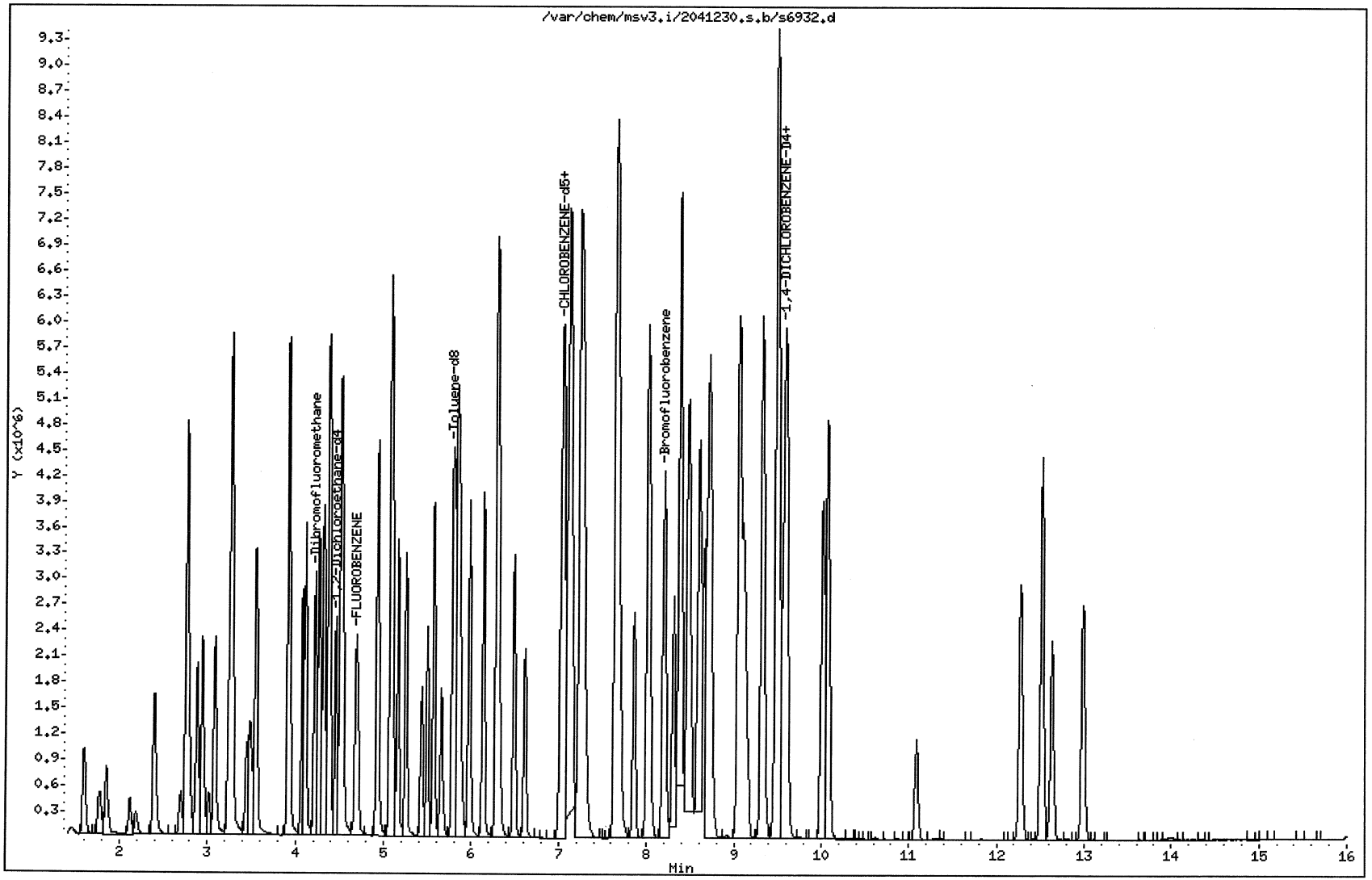
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv3.i/2041230.s.b/s6932.d
Date : 30-DEC-2004 14:39
Client ID: V3STD100
Sample Info: 1204*V3STD100*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

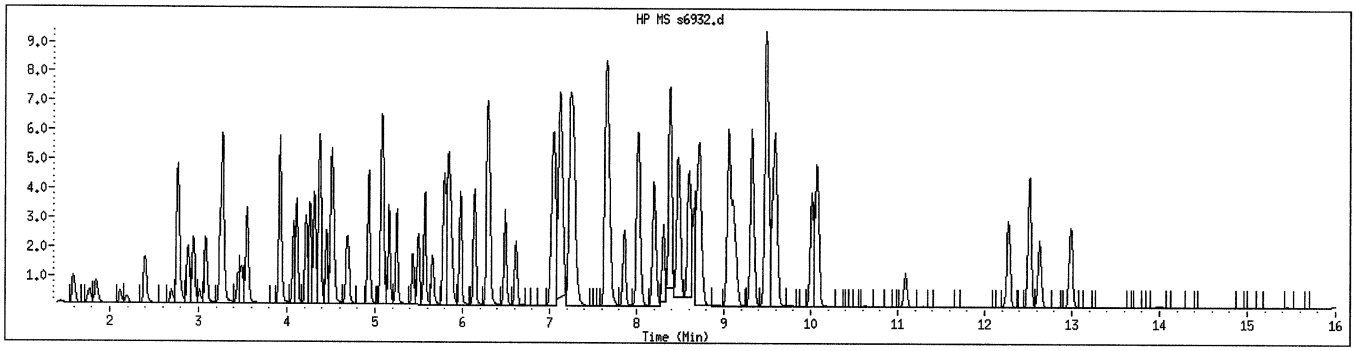
Operator: RJO
Column diameter: 0.53



Data file : /var/chem/msv3.i/2041230.s.b/s6932.d
Report Date: 12/31/2004 09:14

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 30-DEC-2004 14:39	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1204*V3STD100*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6933.d
Lab Smp Id: 1205 Client Smp ID: V3STD200
Inj Date : 30-DEC-2004 15:01
Operator : RJO Inst ID: msv3.i
Smp Info : 1205*V3STD200*5-21-3
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 09:14 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.592	1.592	(0.340)	3190590	200.000	213	8895(A)
2 Chloromethane ++	50	1.775	1.775	(0.379)	1904298	200.000	194	9433
3 Vinyl Chloride +	62	1.849	1.849	(0.394)	2480719	200.000	198	9128
5 Bromomethane	94	2.124	2.124	(0.453)	760020	200.000	119	9697
6 Chloroethane	64	2.193	2.193	(0.468)	393855	200.000	201	8952(A)
7 Trichlorofluoromethane	101	2.393	2.393	(0.510)	3630599	200.000	214	8725(AH)
9 Acrolein	56	2.696	2.696	(0.575)	1386572	1000.00	999	9823(A)
10 1,1,2Trichlotrifluoroethane	101	2.765	2.765	(0.590)	2770443	200.000	207	8332(A)
11 1,1-Dichloroethene +	96	2.771	2.771	(0.591)	2320434	200.000	202	8401(A)
12 Acetone	43	2.811	2.811	(0.600)	837862	200.000	191	
13 Methyl Iodide	142	2.879	2.879	(0.614)	5403910	200.000	211	9246(A)
14 Carbon Disulfide	76	2.937	2.937	(0.626)	8482920	200.000	207	9292(A)
17 Methyl Acetate	43	3.017	3.017	(0.644)	1211240	200.000	220	3200(H)
18 Methylene Chloride	49	3.080	3.080	(0.657)	2552508	200.000	201	8379(A)
20 Acrylonitrile	53	3.246	3.246	(0.692)	3835848	1000.00	983	9121(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	21 MTBE	73	3.274	3.274	(0.698)	6705716	200.000	199	8723
	22 trans-1,2-Dichloroethene	61	3.274	3.274	(0.698)	3103834	200.000	198	
	24 Hexane	57	3.480	3.480	(0.742)	3156745	200.000	212	9223
	25 Vinyl Acetate	43	3.560	3.560	(0.759)	4319128	200.000	197	
	26 1,1-Dichloroethane ++	63	3.549	3.549	(0.757)	4239549	200.000	200	8083 (A)
M	30 Total 1,2-Dichloroethene	61				6855395	400.000	389	0
	32 2-Butanone	43	3.921	3.921	(0.836)	1006410	200.000	201	(A)
	34 cis-1,2-Dichloroethene	61	3.915	3.915	(0.835)	3751561	200.000	191	
	35 2,2-Dichloropropane	77	3.927	3.927	(0.838)	3882966	200.000	193	8379
	37 Bromochloromethane	128	4.076	4.076	(0.869)	1839367	200.000	198	7367
	38 Chloroform +	83	4.116	4.116	(0.878)	5005551	200.000	195	8442
$	39 Dibromofluoromethane	111	4.219	4.219	(0.900)	3507473	200.000	192	9247 (A)
	40 1,1,1-Trichloroethane	97	4.264	4.264	(0.910)	4543027	200.000	198	8598
	42 Cyclohexane	56	4.316	4.316	(0.921)	3407807	200.000	195	8807
	43 1,1-Dichloropropene	75	4.373	4.373	(0.933)	3407728	200.000	186	8367
	44 Carbon Tetrachloride	117	4.379	4.379	(0.934)	3622626	200.000	191	8301
$	45 1,2-Dichloroethane-d4	67	4.453	4.453	(0.950)	1757531	200.000	190	8729
	46 1,2-Dichloroethane	62	4.499	4.499	(0.960)	3650789	200.000	185	8734
	47 Benzene	78	4.522	4.522	(0.965)	9478320	200.000	178	8933
*	48 FLUOROBENZENE	96	4.688	4.688	(1.000)	3048688	50.0000		8821
	49 Trichloroethene	130	4.928	4.928	(1.051)	3845882	200.000	199	8692
	51 Methyl Cyclohexane	83	5.083	5.083	(1.084)	4789886	200.000	199	8618
	52 1,2-Dichloropropane +	63	5.083	5.083	(1.084)	2443717	200.000	190	8308
	55 Dibromomethane	93	5.157	5.157	(1.100)	2283536	200.000	199	7701
	56 Bromodichloromethane	83	5.249	5.249	(1.120)	4161922	200.000	194	9086
	57 2-Chloroethyl vinyl ether	63	5.432	5.432	(1.159)	1761314	200.000	210	8998 (A)
	58 1-Bromo-2-chloroethane	63	5.495	5.495	(1.172)	3876417	200.000	197	8461
	59 cis-1,3-Dichloropropene	75	5.569	5.569	(1.188)	4760888	200.000	195	
	60 4-methyl-2-pentanone	43	5.655	5.655	(1.206)	2298309	200.000	205	(A)
$	61 Toluene-d8	98	5.798	5.798	(1.237)	11560187	200.000	195	9056
	62 Toluene +	91	5.850	5.850	(1.248)	12666612	200.000	189	6975
	63 trans-1,3-Dichloropropene	75	5.981	5.981	(1.276)	4864361	200.000	199	
M	138 Total-1-3 Dichloropropene	100				9625249	400.000	396	0
	65 1,1,2-Trichloroethane	97	6.136	6.136	(0.874)	2974675	200.000	191	9137
	66 1,3-Dichloropropane	76	6.285	6.285	(0.895)	4236292	200.000	181	7547
	67 Tetrachloroethene	164	6.302	6.302	(0.897)	3169792	200.000	192	6412
	68 2-Hexanone	43	6.313	6.313	(0.899)	1549608	200.000	186	
	69 Dibromochloromethane	129	6.491	6.491	(0.924)	4342382	200.000	193	8670
	70 1,2-Dibromoethane(EDB)	107	6.617	6.617	(0.942)	3622915	200.000	200	9753
*	71 CHLOROBENZENE-d5	82	7.023	7.023	(1.000)	1363209	50.0000		8807
	72 Chlorobenzene ++	112	7.052	7.052	(1.004)	9119319	200.000	184	8853
	73 1,1,1,2-Tetrachloroethane	133	7.109	7.109	(1.012)	3381271	200.000	184	8430
	74 Ethylbenzene +	106	7.132	7.132	(1.015)	4824298	200.000	190	
	75 p,m-Xylene	106	7.241	7.241	(1.031)	11476315	400.000	376	
	76 o-Xylene	106	7.641	7.641	(1.088)	5716035	200.000	189	
	77 Styrene	104	7.653	7.653	(1.090)	10011398	200.000	187	9135
M	78 TOTAL XYLENE	106				17192350	600.000	565	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
79 Bromoform ++	173	7.859	7.859	(1.119)	3501015	200.000	207	8481(A)
80 Isopropylbenzene	105	8.013	8.013	(1.141)	14267630	200.000	199	9158
$ 82 Bromofluorobenzene	174	8.196	8.196	(1.167)	4707867	200.000	197	8434
83 1,1,2,2-Tetrachloroethane++	83	8.305	8.305	(0.869)	3781818	200.000	185	8953
84 trans-1,4-Dichloro-2-Butene	53	8.368	8.368	(0.875)	830050	200.000	187	7915
85 1,2,3-Trichloropropane	75	8.374	8.374	(0.876)	4333563	200.000	179	7983
86 Bromobenzene	77	8.379	8.379	(0.877)	6490456	200.000	177	8624
87 n-Propylbenzene	91	8.471	8.471	(0.886)	15988900	200.000	178	
88 2-Chlorotoluene	91	8.591	8.591	(0.899)	9697192	200.000	161	
89 1,3,5-Trimethylbenzene	105	8.666	8.666	(0.907)	11603542	200.000	198	9067(H)
90 4-Chlorotoluene	91	8.717	8.717	(0.912)	11359159	200.000	183	
91 tert-butylbenzene	91	9.055	9.055	(0.947)	8774687	200.000	190	8677
93 1,2,4-Trimethylbenzene	105	9.112	9.112	(0.953)	10944682	200.000	199	
94 sec-Butylbenzene	105	9.324	9.324	(0.975)	15397228	200.000	181	
95 p-Isopropyltoluene	119	9.490	9.490	(0.993)	12207447	200.000	188	8897
96 1,3-Dichlorobenzene	146	9.484	9.484	(0.992)	7895566	200.000	177	
* 97 1,4-DICHLOROBENZENE-D4	152	9.558	9.558	(1.000)	1517990	50.0000		8083
98 1,4-Dichlorobenzene	146	9.593	9.593	(1.004)	8432744	200.000	185	
99 n-Butylbenzene	91	10.016	10.016	(1.048)	10259849	200.000	203	9377(A)
100 1,2-Dichlorobenzene	146	10.074	10.074	(1.054)	8009752	200.000	187	
101 1,2-Dibromo-3-Chloropropane	157	11.092	11.092	(1.160)	1288096	200.000	201	7976(A)
103 1,2,4-Trichlorobenzene	180	12.277	12.277	(1.284)	4641338	200.000	217	(A)
104 Hexachlorobutadiene	225	12.517	12.517	(1.310)	3594904	200.000	211	8270(A)
105 Naphthalene	128	12.632	12.632	(1.322)	8612800	200.000	200	8618(A)
106 1,2,3-Trichlorobenzene	180	12.992	12.992	(1.359)	4219160	200.000	218	(A)

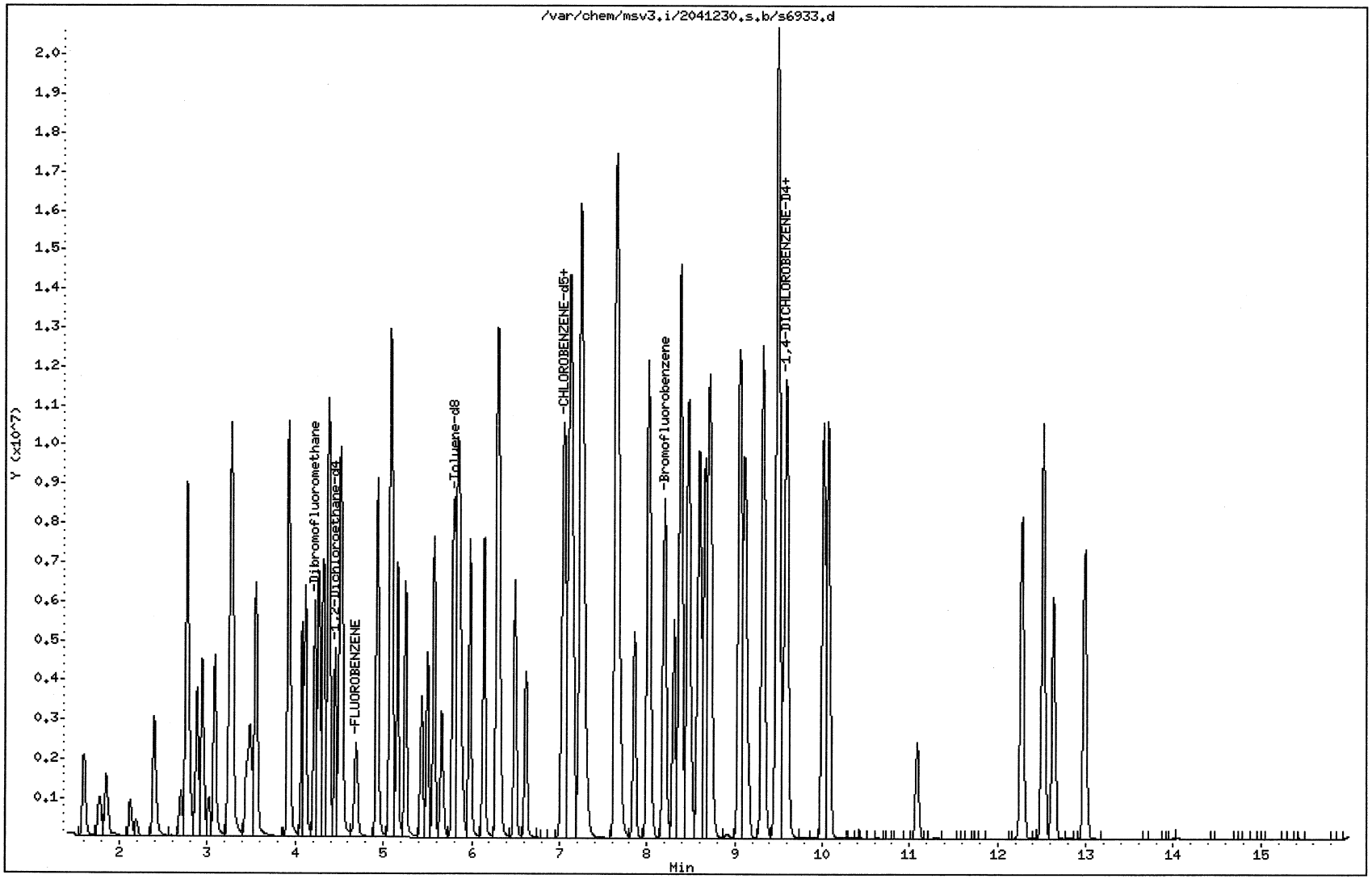
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv3.i/2041230.s.b/s6933.d
Date : 30-DEC-2004 15:01
Client ID: V3STD200
Sample Info: 1205*V3STD200*5-21-3
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

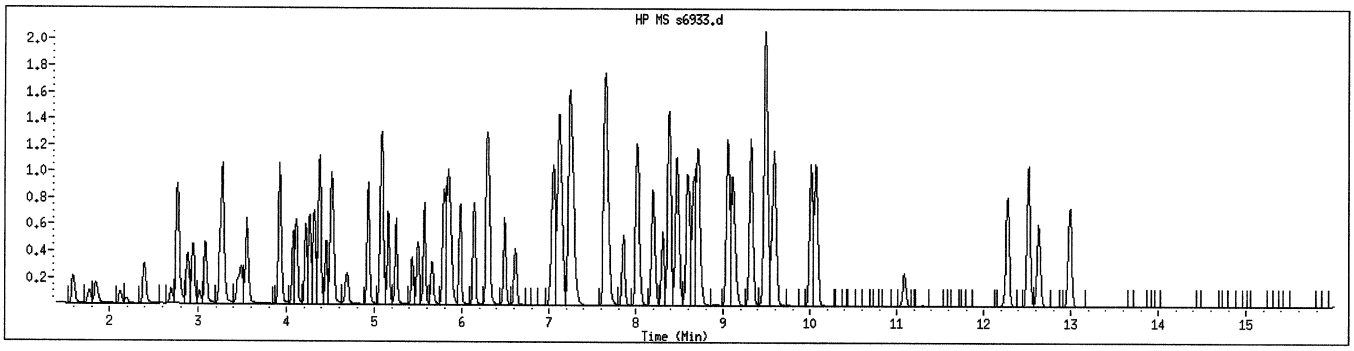


000154

Data file : /var/chem/msv3.i/2041230.s.b/s6933.d
Report Date: 12/31/2004 09:14

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 30-DEC-2004 15:01	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1205*V3STD200*5-21-3		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

Data file : /var/chem/msv3.i/2041230.s.b/s6936.d
Report Date: 01/11/2005 10:03

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260.sub
Method File: /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Misc Info: MSV~5648~*1*RJO

Client SDG: 2041230.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: RJO
Sample Type: LCS
Quant Type: ISTD

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	1	Dichlorodifluoromethane	50.0	53.2	106.47	80-120
	2	Chloromethane ++	50.0	47.3	94.64	80-120
	3	Vinyl Chloride +	50.0	48.0	96.04	80-120
	5	Bromomethane	50.0	72.1	144.28*	80-120
	6	Chloroethane	50.0	70.6	141.28*	80-120
	7	Trichlorofluoromethane	50.0	44.5	89.03	80-120
	9	Acrolein	250	301	120.31*	80-120
	11	1,1-Dichloroethene +	50.0	54.9	109.75	80-120
	12	Acetone	50.0	52.8	105.53	80-120
	13	Methyl Iodide	50.0	55.4	110.74	80-120
	14	Carbon Disulfide	50.0	52.8	105.67	80-120
	17	Methyl Acetate	50.0	46.5	92.98	80-120
	18	Methylene Chloride	50.0	50.4	100.89	80-120
	20	Acrylonitrile	250	265	105.94	80-120
	21	MTBE	50.0	52.1	104.14	80-120
	22	trans-1,2-Dichloroethene	50.0	51.4	102.81	80-120
	24	Hexane	50.0	52.7	105.32	80-120
	25	Vinyl Acetate	50.0	51.7	103.44	80-120
	26	1,1-Dichloroethane ++	50.0	50.4	100.73	80-120
M	30	Total 1,2-Dichloroethene	100	101	100.79	80-120
	32	2-Butanone	50.0	51.0	102.05	80-120
	34	cis-1,2-Dichloroethene	50.0	49.6	99.18	80-120
	35	2,2-Dichloropropane	50.0	51.3	102.66	80-120
	37	Bromochloromethane	50.0	51.7	103.45	80-120
	38	Chloroform +	50.0	51.7	103.33	80-120
	40	1,1,1-Trichloroethane	50.0	51.6	103.27	80-120
	43	1,1-Dichloropropene	50.0	50.1	100.16	80-120
	44	Carbon Tetrachloride	50.0	51.7	103.41	80-120
	46	1,2-Dichloroethane	50.0	48.2	96.47	80-120
	47	Benzene	50.0	49.1	98.27	80-120

Data file : /var/chem/msv3.i/2041230.s.b/s6936.d
Report Date: 01/11/2005 10:03

	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	49	Trichloroethene	50.0	49.7	99.30	80-120
	52	1,2-Dichloropropane +	50.0	48.3	96.54	80-120
	55	Dibromomethane	50.0	48.9	97.70	80-120
	56	Bromodichloromethane	50.0	46.0	92.09	80-120
	57	2-Chloroethyl vinyl ether	50.0	47.3	94.51	80-120
	59	cis-1,3-Dichloropropene	50.0	47.9	95.77	80-120
	60	4-methyl-2-pentanone	50.0	46.6	93.16	80-120
	62	Toluene +	50.0	49.2	98.43	80-120
	63	trans-1,3-Dichloropropene	50.0	48.5	97.04	80-120
	65	1,1,2-Trichloroethane	50.0	51.1	102.25	80-120
	66	1,3-Dichloropropane	50.0	49.9	99.83	80-120
	67	Tetrachloroethene	50.0	53.9	107.82	80-120
	68	2-Hexanone	50.0	49.6	99.13	80-120
	69	Dibromochloromethane	50.0	49.8	99.53	80-120
	70	1,2-Dibromoethane(EDB)	50.0	50.5	100.93	80-120
	72	Chlorobenzene ++	50.0	49.9	99.73	80-120
	73	1,1,1,2-Tetrachloroethane	50.0	49.1	98.17	80-120
	74	Ethylbenzene +	50.0	50.3	100.64	80-120
	75	p,m-Xylene	100	103	102.62	80-120
	76	o-Xylene	50.0	50.8	101.61	80-120
	77	Styrene	50.0	50.4	100.88	80-120
M	78	TOTAL XYLENE	150	153	102.28	80-120
	79	Bromoform ++	50.0	51.1	102.18	80-120
	80	Isopropylbenzene	50.0	54.5	108.99	80-120
	83	1,1,2,2-Tetrachloroethane++	50.0	50.3	100.56	80-120
	84	trans-1,4-Dichloro-2-Butene	50.0	48.7	97.34	80-120
	85	1,2,3-Trichloropropane	50.0	48.1	96.18	80-120
	86	Bromobenzene	50.0	48.9	97.76	80-120
	87	n-Propylbenzene	50.0	52.1	104.21	80-120
	88	2-Chlorotoluene	50.0	51.8	103.53	80-120
	89	1,3,5-Trimethylbenzene	50.0	41.0	81.93	80-120
	90	4-Chlorotoluene	50.0	50.8	101.57	80-120
	91	tert-butylbenzene	50.0	52.2	104.35	80-120
	93	1,2,4-Trimethylbenzene	50.0	54.1	108.28	80-120
	94	sec-Butylbenzene	50.0	53.0	106.09	80-120
	95	p-Isopropyltoluene	50.0	54.6	109.24	80-120
	96	1,3-Dichlorobenzene	50.0	51.9	103.80	80-120
	98	1,4-Dichlorobenzene	50.0	51.2	102.36	80-120
	99	n-Butylbenzene	50.0	55.7	111.31	80-120
	100	1,2-Dichlorobenzene	50.0	51.6	103.23	80-120
	101	1,2-Dibromo-3-Chloropropane	50.0	50.6	101.13	80-120
	103	1,2,4-Trichlorobenzene	50.0	59.0	118.04	80-120
	104	Hexachlorobutadiene	50.0	60.1	120.11*	80-120
	105	Naphthalene	50.0	64.0	127.99*	80-120
	106	1,2,3-Trichlorobenzene	50.0	58.6	117.27	80-120
M	138	Total-1-3 Dichloropropene	100	96.7	96.70	80-120

Data file : /var/chem/msv3.i/2041230.s.b/s6936.d
Report Date: 01/11/2005 10:03

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 39 Dibromofluoromethane	50.0	51.6	103.28	73-125
$ 45 1,2-Dichloroethane-d4	50.0	49.0	98.07	70-123
$ 61 Toluene-d8	50.0	51.5	103.04	78-127
$ 82 Bromofluorobenzene	50.0	52.3	104.53	75-120

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6936.d
Lab Smp Id: 1600 Client Smp ID: 8260ICV
Inj Date : 30-DEC-2004 17:04
Operator : RJO Inst ID: msv3.i
Smp Info : 1600*8260ICV
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 10:49 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.598	1.592	(0.341)	858782	53.2338	53.2	9161
2 Chloromethane ++	50	1.787	1.775	(0.381)	500895	47.3187	47.3	9217
3 Vinyl Chloride +	62	1.861	1.849	(0.397)	648513	48.0218	48.0	9579
5 Bromomethane	94	2.136	2.124	(0.456)	495495	72.1423	72.1	9505(R)
6 Chloroethane	64	2.211	2.193	(0.471)	222624	70.6419	70.6	8882(R)
7 Trichlorofluoromethane	101	2.783	2.393	(0.594)	815055	44.5167	44.5	9114
9 Acrolein	56	2.709	2.696	(0.578)	334687	300.777	301	9345(AR)
10 1,1,2Trichlotrifluoroethane	101	2.783	2.765	(0.594)	824732	57.2012	57.2	8261
11 1,1-Dichloroethene +	96	2.783	2.771	(0.594)	681494	54.8739	54.9	8261
12 Acetone	43	2.829	2.811	(0.603)	249778	52.7668	52.8	
13 Methyl Iodide	142	2.892	2.879	(0.617)	1529446	55.3684	55.4	9337
14 Carbon Disulfide	76	2.955	2.937	(0.630)	2338959	52.8333	52.8	9337
17 Methyl Acetate	43	3.029	3.017	(0.646)	275848	46.4877	46.5	3241
18 Methylene Chloride	49	3.092	3.080	(0.659)	690473	50.4469	50.4	8487
20 Acrylonitrile	53	3.258	3.246	(0.695)	1115180	264.854	265	7610(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	21 MTBE	73	3.287	3.274	(0.701)	1896762	52.0697	52.1	8824
	22 trans-1,2-Dichloroethene	61	3.287	3.274	(0.701)	867295	51.4038	51.4	
	24 Hexane	57	3.493	3.480	(0.745)	845459	52.6583	52.7	9186
	25 Vinyl Acetate	43	3.567	3.560	(0.761)	1224733	51.7186	51.7	
	26 1,1-Dichloroethane ++	63	3.550	3.549	(0.757)	1148848	50.3658	50.4	7415
M	30 Total 1,2-Dichloroethene	61				1915754	100.790	101	0
	32 2-Butanone	43	3.928	3.921	(0.838)	282108	51.0272	51.0	
	34 cis-1,2-Dichloroethene	61	3.922	3.915	(0.836)	1048459	49.5899	49.6	
	35 2,2-Dichloropropane	77	3.939	3.927	(0.840)	1116028	51.3290	51.3	8300
	37 Bromochloromethane	128	4.082	4.076	(0.871)	519518	51.7241	51.7	7442
	38 Chloroform +	83	4.116	4.116	(0.878)	1427991	51.6634	51.7	8506
$	39 Dibromofluoromethane	111	4.219	4.219	(0.900)	1017320	51.6412	51.6	9268
	40 1,1,1-Trichloroethane	97	4.271	4.264	(0.911)	1280036	51.6357	51.6	8424
	42 Cyclohexane	56	4.322	4.316	(0.922)	967543	51.4189	51.4	8804
	43 1,1-Dichloropropene	75	4.380	4.373	(0.934)	991611	50.0800	50.1	8208
	44 Carbon Tetrachloride	117	4.385	4.379	(0.935)	1055867	51.7063	51.7	8066
$	45 1,2-Dichloroethane-d4	67	4.454	4.453	(0.950)	488893	49.0338	49.0	8699
	46 1,2-Dichloroethane	62	4.506	4.499	(0.961)	1025195	48.2354	48.2	8199
	47 Benzene	78	4.529	4.522	(0.966)	2818438	49.1344	49.1	8815
*	48 FLUOROBENZENE	96	4.689	4.688	(1.000)	3288136	50.0000		8818
	49 Trichloroethene	130	4.935	4.928	(1.052)	1036408	49.6525	49.7	8546
	51 Methyl Cyclohexane	83	5.084	5.083	(1.084)	1320979	50.7583	50.8	8627
	52 1,2-Dichloropropane +	63	5.084	5.083	(1.084)	668118	48.2692	48.3	8339
	55 Dibromomethane	93	5.164	5.157	(1.101)	604274	48.8501	48.9	7628
	56 Bromodichloromethane	83	5.255	5.249	(1.121)	1065200	46.0472	46.0	8913
	57 2-Chloroethyl vinyl ether	63	5.433	5.432	(1.159)	428012	47.2550	47.3	8948
	58 1-Bromo-2-chloroethane	63	5.502	5.495	(1.173)	1022402	48.1247	48.1	8457
	59 cis-1,3-Dichloropropene	75	5.570	5.569	(1.188)	1258570	47.8837	47.9	
	60 4-methyl-2-pentanone	43	5.656	5.655	(1.206)	562880	46.5814	46.6	
$	61 Toluene-d8	98	5.793	5.798	(1.236)	3292948	51.5183	51.5	9022
	62 Toluene +	91	5.845	5.850	(1.247)	3549937	49.2130	49.2	7531
	63 trans-1,3-Dichloropropene	75	5.982	5.981	(1.276)	1277909	48.5203	48.5	
M	138 Total-1-3 Dichloropropene	100				2536479	96.6953	96.7	0
	65 1,1,2-Trichloroethane	97	6.137	6.136	(0.874)	816441	51.1228	51.1	9177
	66 1,3-Dichloropropane	76	6.286	6.285	(0.895)	1196821	49.9161	49.9	7526
	67 Tetrachloroethene	164	6.297	6.302	(0.896)	911923	53.9080	53.9	6611
	68 2-Hexanone	43	6.314	6.313	(0.899)	423235	49.5654	49.6	
	69 Dibromochloromethane	129	6.492	6.491	(0.924)	1151024	49.7637	49.8	8701
	70 1,2-Dibromoethane(EDB)	107	6.618	6.617	(0.942)	942571	50.4669	50.5	9704
*	71 CHLOROBENZENE-d5	82	7.024	7.023	(1.000)	1399500	50.0000		6985
	72 Chlorobenzene ++	112	7.053	7.052	(1.004)	2534235	49.8666	49.9	8403
	73 1,1,1,2-Tetrachloroethane	133	7.104	7.109	(1.011)	925356	49.0846	49.1	7680
	74 Ethylbenzene +	106	7.133	7.132	(1.015)	1313835	50.3214	50.3	
	75 p,m-Xylene	106	7.241	7.241	(1.031)	3217221	102.616	103	
	76 o-Xylene	106	7.642	7.641	(1.088)	1577934	50.8048	50.8	
	77 Styrene	104	7.648	7.653	(1.089)	2770451	50.4422	50.4	9112
M	78 TOTAL XYLENE	106				4795155	153.424	153	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
79 Bromoform ++	173	7.854	7.859	(1.118)	885435	51.0922	51.1	8497
80 Isopropylbenzene	105	8.014	8.013	(1.141)	4095392	54.4943	54.5	9004
$ 82 Bromofluorobenzene	174	8.197	8.196	(1.167)	1283433	52.2657	52.3	8337
83 1,1,2,2-Tetrachloroethane++	83	8.306	8.305	(0.869)	1014052	50.2783	50.3	8983
84 trans-1,4-Dichloro-2-Butene	53	8.369	8.368	(0.876)	213690	48.6688	48.7	7857
85 1,2,3-Trichloropropane	75	8.375	8.374	(0.877)	1153808	48.0884	48.1	7887
86 Bromobenzene	77	8.380	8.379	(0.877)	1771455	48.8820	48.9	8528
87 n-Propylbenzene	91	8.466	8.471	(0.886)	4633567	52.1065	52.1	
88 2-Chlorotoluene	91	8.592	8.591	(0.899)	3077415	51.7662	51.8	
89 1,3,5-Trimethylbenzene	105	9.107	8.666	(0.953)	2369827	40.9629	41.0	9035
90 4-Chlorotoluene	91	8.712	8.717	(0.912)	3111912	50.7858	50.8	
91 tert-butylbenzene	91	9.050	9.055	(0.947)	2382931	52.1761	52.2	8677
93 1,2,4-Trimethylbenzene	105	9.107	9.112	(0.953)	2948965	54.1404	54.1	
94 sec-Butylbenzene	105	9.319	9.324	(0.975)	4457495	53.0442	53.0	
95 p-Isopropyltoluene	119	9.485	9.490	(0.993)	3500322	54.6185	54.6	8829
96 1,3-Dichlorobenzene	146	9.479	9.484	(0.992)	2291434	51.9003	51.9	
* 97 1,4-DICHLOROBENZENE-D4	152	9.554	9.558	(1.000)	1500332	50.0000		5713
98 1,4-Dichlorobenzene	146	9.588	9.593	(1.004)	2301991	51.1808	51.2	
99 n-Butylbenzene	91	10.006	10.016	(1.047)	2774313	55.6573	55.7	9491
100 1,2-Dichlorobenzene	146	10.069	10.074	(1.054)	2185076	51.6165	51.6	
101 1,2-Dibromo-3-Chloropropane	157	11.087	11.092	(1.161)	314965	50.5640	50.6	8158
103 1,2,4-Trichlorobenzene	180	12.272	12.277	(1.285)	1244875	59.0214	59.0	
104 Hexachlorobutadiene	225	12.518	12.517	(1.310)	1009683	60.0537	60.1	8292(R)
105 Naphthalene	128	12.633	12.632	(1.322)	2179711	63.9971	64.0	8574(R)
106 1,2,3-Trichlorobenzene	180	12.988	12.992	(1.359)	1119373	58.6335	58.6	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/msv3.i/2041230.s.b/s6936.d
Report Date: 11-Jan-2005 10:03

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msv3.i
Lab File ID: s6936.d
Lab Smp Id: 1600
Analysis Type: VOA
Quant Type: ISTD
Operator: RJO
Method File: /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Misc Info: MSV~5648~*1*RJO

Calibration Date: 30-DEC-2004
Calibration Time: 14:17
Client Smp ID: 8260ICV
Level: LOW
Sample Type: WATER

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
48 FLUOROBENZENE	3048688	1524344	6097376	3288136	7.85
71 CHLOROBENZENE-d5	1363209	681604	2726418	1399500	2.66
97 1,4-DICHLOROBENZE	1517990	758995	3035980	1500332	-1.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
48 FLUOROBENZENE	4.69	4.19	5.19	4.69	0.02
71 CHLOROBENZENE-d5	7.02	6.52	7.52	7.02	0.01
97 1,4-DICHLOROBENZE	9.56	9.06	10.06	9.55	-0.05

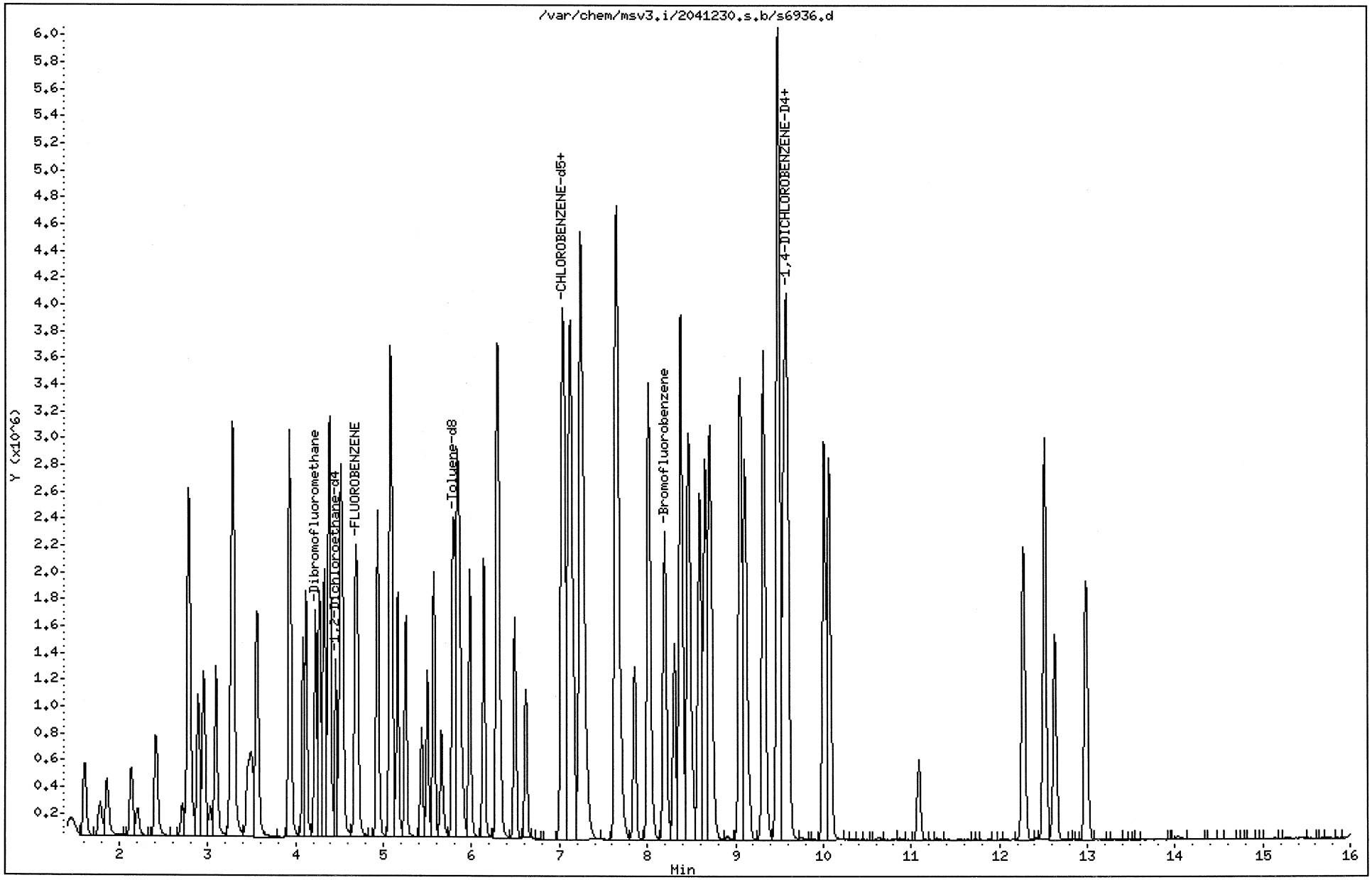
AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /var/chem/msv3.i/2041230.s.b/s6936.d
Date : 30-DEC-2004 17:04
Client ID: 8260ICV
Sample Info: 1600*8260ICV
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

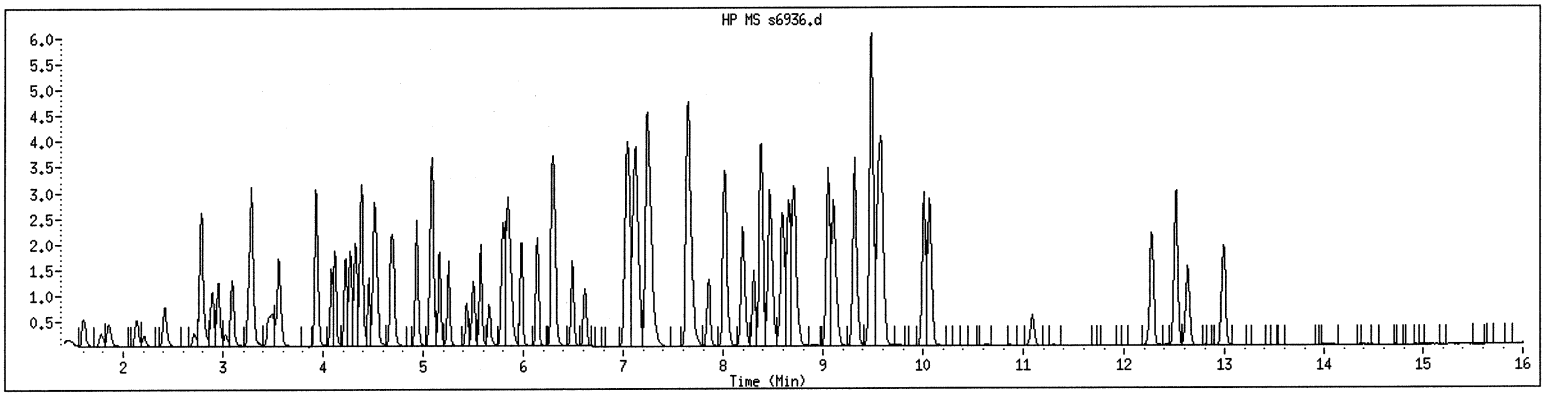
Operator: RJO
Column diameter: 0.53

000163



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 30-DEC-2004 17:04	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 1600*8260ICV		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSV4

Calibration Date 1: 12/31/04 Time 1: 1010

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

Calibration Date 2: 12/31/04 Time 2: 1200

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 285580

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	0.078	0.073	0.071	0.065	0.068					0.071			6.887	A
Acrolein	2629	16411	40269	81857	161213					0.016	0.069		0.999	L
Acrylonitrile	0.043	0.046	0.048	0.047	0.042					0.045			6.091	A
Bromochloromethane	0.099	0.118	0.127	0.125	0.116					0.117			9.550	A
Bromodichloromethane	0.292	0.331	0.352	0.352	0.352					0.328			9.459	A
Bromoform	0.206	0.275	0.315	0.351	0.394					0.308			23.43	A
Bromomethane	0.029	0.043	0.034	0.039	0.039					0.037			14.87	A
Carbon disulfide	0.432	0.417	0.370	0.364	0.331					0.383			10.79	A
Carbon tetrachloride	0.298	0.313	0.329	0.323	0.338					0.320			4.884	A
m,p-Xylene	1.061	1.136	1.213	1.117	0.809					1.073			12.94	A
Chloroform	0.433	0.454	0.474	0.448	0.426					0.421			15.51	A
Chloromethane	0.365	0.313	0.265	0.254	0.276					0.295			15.36	A
Dibromochloromethane	9570	45035	124343	256862	555112					0.728	0.104		0.994	L
Dibromomethane	0.132	0.155	0.171	0.167	0.171					0.149			18.78	A
Dichlorodifluoromethane	0.278	0.291	0.304	0.284	0.312					0.294			4.790	A
1,1-Dichloroethane	0.248	0.241	0.259	0.248	0.241					0.247			3.050	A
1,2-Dichloroethane	0.296	0.321	0.338	0.326	0.324					0.321			4.782	A
cis-1,2-Dichloroethene	0.292	0.291	0.293	0.231	0.268					0.275			9.639	A
trans-1,2-Dichloroethene	0.160	0.173	0.173	0.169	0.170					0.169			3.173	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.: 204122902

Instrument ID: MSV4

Calibration Date 1: 12/31/04 Time 1: 1010

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

Calibration Date 2: 12/31/04 Time 2: 1200

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 285580

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Methylene chloride	12338	35768	89629	169977	336809					0.160	-0.042		0.999	L
1,2-Dichloropropane	0.298	0.328	0.339	0.324	0.315					0.319			4.515	A
cis-1,3-Dichloropropene	0.426	0.460	0.493	0.481	0.461					0.456			6.600	A
trans-1,3-Dichloropropene	0.369	0.425	0.446	0.431	0.356					0.405			9.899	A
Ethylbenzene	3.076	3.063	3.219	3.076	2.612					3.046			7.391	A
2-Hexanone	0.594	0.699	0.716	0.721	0.802					0.706			10.53	A
Isopropylbenzene (Cumene)	2.560	2.638	2.741	2.747	2.865					2.691			4.252	A
2-Butanone	25192	64364	133052	226683	400425					0.186	-0.229		0.995	L
Methyl iodide	3909	23590	72306	157023	306556					0.150	0.068		0.999	L
4-Methyl-2-pentanone	0.330	0.370	0.359	0.321	0.231					0.322			17.06	A
n-Propylbenzene	6.167	6.297	5.980	5.539	4.494					5.816			12.32	A
Styrene	1.632	1.781	1.924	1.996	1.925					1.793			10.79	A
Tetrachloroethene	0.354	0.389	0.435	0.434	0.468					0.408			11.05	A
1,1,1,2-Tetrachloroethane	0.427	0.479	0.538	0.551	0.596					0.500			14.65	A
1,1,2,2-Tetrachloroethane	1.339	1.406	1.315	1.205	1.195					1.292			6.991	A
1,2,4-Trichlorobenzene	0.583	0.653	0.613	0.559	0.627					0.607			6.085	A
1,1,1-Trichloroethane	0.325	0.346	0.360	0.344	0.335					0.338			4.536	A
1,1,2-Trichloroethane	0.536	0.582	0.620	0.609	0.683					0.587			11.54	A
Trichlorofluoromethane	0.139	0.163	0.094	0.113	0.095					0.121			24.72	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.: 204122902

Instrument ID: MSV4

Calibration Date 1: 12/31/04 Time 1: 1010

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

Calibration Date 2: 12/31/04 Time 2: 1200

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 285580

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,2,3-Trichloropropane	1.622	1.734	1.649	1.506	1.157					1.532			13.18	A
1,2,4-Trimethylbenzene	3.815	3.735	3.552	3.342	3.126					3.556			7.686	A
1,3,5-Trimethylbenzene	3.898	3.947	3.841	3.642	2.776					3.660			12.17	A
Vinyl chloride	0.260	0.260	0.274	0.252	0.252					0.258			3.556	A
o-Xylene	0.971	1.046	1.098	1.133	1.190					1.064			8.844	A
1,3-Dichloropropane	1.069	1.162	1.207	1.154	1.237					1.142			7.184	A
Bromobenzene	2.180	2.277	2.186	2.037	1.706					2.089			9.717	A
2-Chlorotoluene	3.984	4.055	3.743	3.517	3.095					3.731			9.940	A
4-Chlorotoluene	3.576	3.572	3.245	3.032	2.839					3.301			9.532	A
tert-Butylbenzene	2.285	2.346	2.239	2.083	1.805					2.171			9.192	A
sec-Butylbenzene	5.138	5.137	4.864	4.568	4.325					4.887			7.695	A
1,3-Dichlorobenzene	1.742	1.688	1.633	1.559	1.650					1.657			3.689	A
1,4-Dichlorobenzene	1.801	1.784	1.740	1.689	1.696					1.774			5.100	A
n-Butylbenzene	4.081	3.968	3.731	3.333	3.180					3.738			10.71	A
1,2-Dichlorobenzene	1.542	1.538	1.490	1.407	1.472					1.508			4.485	A
Hexachlorobutadiene	0.348	0.398	0.362	0.322	0.404					0.367			9.363	A
Naphthalene	1.173	1.391	1.270	1.202	1.253					1.260			5.980	A
1,2,3-Trichlorobenzene	0.500	0.557	0.523	0.475	0.504					0.512			6.003	A
1-Bromo-2-chloroethane	0.422	0.464	0.490	0.480	0.477					0.467			5.668	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.: 204122902

Instrument ID: MSV4

Calibration Date 1: 12/31/04 Time 1: 1010

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

Calibration Date 2: 12/31/04 Time 2: 1200

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 285580

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,3-Dichloropropylene	0.795	0.885	0.939	0.912	0.817					0.794			24.33	A
1,1-Dichloroethene	0.095	0.107	0.096	0.097	0.090					0.097			6.467	A
Benzene	1.190	1.232	1.215	1.171	1.103					1.198			4.941	A
1,2-Dibromo-3-chloropropane	641	7397	18314	36514	74854					0.144	-0.002		0.998	L
1,2-Dibromoethane	0.458	0.531	0.579	0.574	0.666					0.541			15.50	A
Vinyl acetate	0.242	0.241	0.265	0.257	0.255					0.252			4.041	A
tert-Butyl methyl ether (MTBE)	0.340	0.352	0.372	0.374	0.368					0.361			4.090	A
1,2-Dichloroethene	0.226	0.232	0.233	0.200	0.219					0.201			26.39	A
4-Isopropyltoluene	3.753	3.827	3.739	3.557	3.349					3.681			5.253	A
Xylene (total)	1.031	1.106	1.175	1.122	0.936					1.070			7.808	A
Methylcyclohexane	0.436	0.468	0.478	0.417	0.373					0.436			8.710	A
n-Hexane	0.222	0.227	0.217	0.203	0.201					0.214			5.262	A
trans-1,4-Dichloro-2-butene	0.328	0.450	0.462	0.420	0.358					0.404			14.51	A
Cyclohexane	0.421	0.448	0.445	0.382	0.350					0.382			19.84	A
2,2-Dichloropropane	0.315	0.338	0.340	0.315	0.329					0.327			3.639	A
Methyl Acetate	0.271	0.268	0.262	0.251	0.255					0.261			3.252	A
Trichlorotrifluoroethane	0.117	0.130	0.120	0.116	0.113					0.119			5.409	A
1,1-Dichloropropene	0.350	0.375	0.376	0.347	0.332					0.354			5.002	A
2-Chloroethylvinyl ether	0.422	0.464	0.490	0.469	0.463					0.455			5.946	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.: 204122902

Instrument ID: MSV4

Calibration Date 1: 12/31/04 Time 1: 1010

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

Calibration Date 2: 12/31/04 Time 2: 1200

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 285580

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichloroethene	0.240	0.257	0.278	0.269	0.254					0.257			5.856	A
Toluene	2.876	2.903	3.040	2.842	2.838					2.939			4.159	A
Chlorobenzene	1.643	1.689	1.800	1.808	1.765					1.747			3.792	A
4-Bromofluorobenzene	0.401	0.401	0.441	0.459	0.546					0.476			17.42	A
Dibromofluoromethane	0.218	0.231	0.240	0.232	0.221					0.224			6.205	A
Toluene-d8	2.316	2.305	2.466	2.347	2.461					2.414			4.591	A
1,2-Dichloroethane-d4	0.130	0.143	0.152	0.152	0.149					0.144			6.319	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/msv4.i/2041231.s.b/t3253.d
Lab Smp Id: 1000 Client Smp ID: BFB
Inj Date : 31-DEC-2004 08:56
Operator : RJO Inst ID: msv4.i
Smp Info : 1000*BFB
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/bfb1.m
Meth Date : 01-Oct-2004 15:17 rjo 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		
8.660	8.816	(0.000)	95	85066			100.00- 100.00	100.00
8.660	8.816	(0.000)	50	17549			15.00- 40.00	20.63
8.660	8.816	(0.000)	75	42112			30.00- 60.00	49.51
8.660	8.816	(0.000)	96	5699			5.00- 9.00	6.70
8.660	8.816	(0.000)	173	0			0.00- 2.00	0.00
8.660	8.816	(0.000)	174	46722			50.00- 99.99	54.92
8.660	8.816	(0.000)	175	3245			5.00- 9.00	6.95
8.660	8.816	(0.000)	176	44477			95.00- 101.00	95.19
8.660	8.816	(0.000)	177	2931			5.00- 9.00	6.59

Data File: /var/chem/msv4.i/2041231.s.b/t3253.d

Date : 31-DEC-2004 08:56

Client ID: BFB

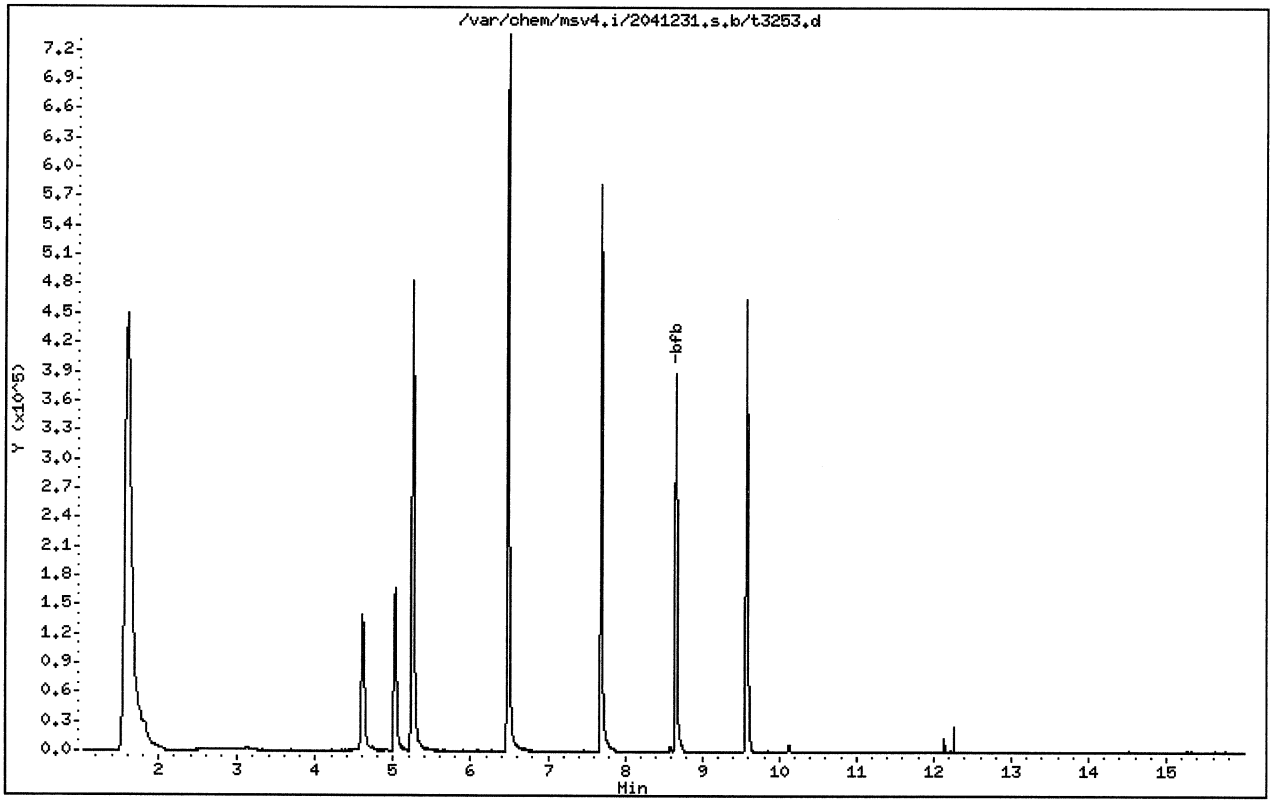
Instrument: msv4.i

Sample Info: 1000*BFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53



Data File: /var/chem/msv4.i/2041231.s.b/t3253.d

Date : 31-DEC-2004 08:56

Client ID: BFB

Instrument: msv4.i

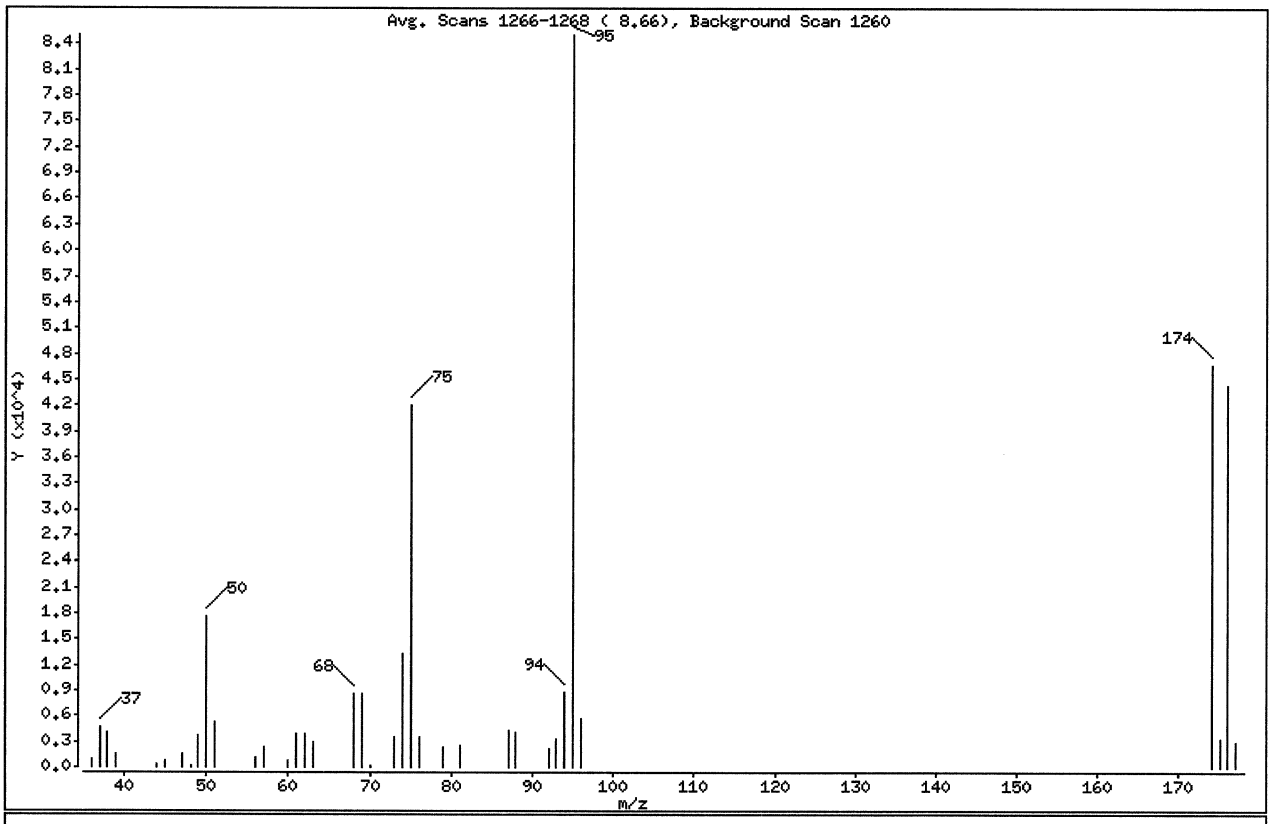
Sample Info: 1000*BFB

Operator: RJO

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	20.63
75	30.00 - 60.00% of mass 95	49.51
96	5.00 - 9.00% of mass 95	6.70
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	54.92
175	5.00 - 9.00% of mass 174	3.81 (6.95)
176	95.00 - 101.00% of mass 174	52.29 (95.19)
177	5.00 - 9.00% of mass 176	3.45 (6.59)

Data File: /var/chem/msv4.i/2041231.s.b/t3253.d

Date : 31-DEC-2004 08:56

Client ID: BFB

Instrument: msv4.i

Sample Info: 1000xBFB

Operator: RJO

Column phase: DB-624-30M

Column diameter: 0.53

Data File: t3253.d

Spectrum: Avg. Scans 1266-1268 (8.66), Background Scan 1260

Location of Maximum: 95.00

Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	998	51.00	5301	73.00	3615	94.00	8845
37.00	4661	56.00	1139	74.00	13244	95.00	85064
38.00	4079	57.00	2354	75.00	42112	96.00	5699
39.00	1592	60.00	879	76.00	3534	174.00	46720
44.00	347	61.00	3954	79.00	2320	175.00	3245
45.00	870	62.00	3895	81.00	2490	176.00	44472
47.00	1473	63.00	2857	87.00	4271	177.00	2931
48.00	270	68.00	8627	88.00	4102		
49.00	3730	69.00	8513	92.00	2119		
50.00	17544	70.00	267	93.00	3302		

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3255.d
Lab Smp Id: 1201 Client Smp ID: V4STD005
Inj Date : 31-DEC-2004 10:32
Operator : RJO Inst ID: msv4.i
Smp Info : 1201*V4STD005*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:47 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 10:32 Cal File: t3255.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) * CpndVariable

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

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	1.676	1.676	(0.319)	14947	5.00000	4.73	1793
2 Chloromethane ++	50	1.808	1.808	(0.344)	19616	5.00000	6.19	3402
3 Vinyl Chloride +	62	1.868	1.868	(0.356)	13954	5.00000	5.01	3912
5 Bromomethane	94	2.067	2.067	(0.394)	1571	5.00000	3.96	6433
7 Trichlorofluoromethane	101	2.266	2.266	(0.431)	7495	5.00000	5.77	7546
13 Acrolein	56	2.916	2.916	(0.555)	2629	25.0000	17.1	6442
11 1,1,2Trichlotrifluoroethane	101	2.675	2.675	(0.509)	6274	5.00000	4.89	7367
9 1,1-Dichloroethene +	96	2.633	2.633	(0.501)	5108	5.00000	4.90	7207
16 Acetone	43	3.192	3.192	(0.608)	4195	5.00000	5.50	0(M)
12 Methyl Iodide	142	2.753	2.753	(0.524)	3909	5.00000	5.81	4956
10 Carbon Disulfide	76	2.657	2.657	(0.506)	23235	5.00000	5.65	6991
15 Methylene Chloride	49	3.120	3.120	(0.594)	12338	5.00000	5.10	8044
27 Acrylonitrile	53	3.836	3.836	(0.731)	11480	25.0000	23.5	8583

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	17 trans-1,2-Dichloroethene	61	3.259	3.259	(0.621)	8606	5.00000	4.74	8165
	20 MTBE	73	3.385	3.385	(0.645)	18243	5.00000	4.70	7950
	19 Hexane	57	3.343	3.343	(0.637)	11924	5.00000	5.18	8286
	28 Vinyl Acetate	43	4.017	4.017	(0.765)	13018	5.00000	4.81	
	25 1,1-Dichloroethane ++	63	3.776	3.776	(0.719)	13342	5.00000	5.02	0(M)
M	63 Total 1,2-Dichloroethene	61				24301	10.0000	10.2	0
	29 cis-1,2-Dichloroethene	61	4.234	4.234	(0.806)	15695	5.00000	5.31	8610
	30 2,2-Dichloropropane	77	4.318	4.318	(0.822)	16939	5.00000	4.82	8536
	31 Bromochloromethane	128	4.390	4.390	(0.836)	5303	5.00000	4.22	8593
	33 Chloroform +	83	4.462	4.462	(0.850)	23246	5.00000	4.84	8766
$	36 Dibromofluoromethane	111	4.607	4.607	(0.877)	11724	5.00000	4.78	6451
	37 1,1,1-Trichloroethane	97	4.625	4.625	(0.881)	17465	5.00000	4.75	8287
	40 1,1-Dichloropropene	75	4.721	4.721	(0.899)	18786	5.00000	4.91	7111
	35 Carbon Tetrachloride	117	4.577	4.577	(0.872)	15993	5.00000	4.65	8579
$	43 1,2-Dichloroethane-d4	67	5.022	5.022	(0.956)	6983	5.00000	4.47	8530
	45 1,2-Dichloroethane	62	5.076	5.076	(0.967)	15916	5.00000	4.61	0(M)
	42 Benzene	78	4.920	4.920	(0.937)	63937	5.00000	5.03	9449
*	47 FLUOROBENZENE	96	5.251	5.251	(1.000)	537356	50.0000		9695
	49 Trichloroethene	130	5.389	5.389	(1.026)	12900	5.00000	4.62	9523
	52 1,2-Dichloropropane +	63	5.787	5.787	(1.102)	16016	5.00000	4.64	8998
	57 2-Chloroethyl vinyl ether	63	6.208	6.208	(1.182)	22685	5.00000	4.57	3926(MH)
	56 1-Bromo-2-chloroethane	63	6.208	6.208	(1.182)	22687	5.00000	4.52	6720(a)
	51 Dibromomethane	93	5.708	5.708	(1.087)	7083	5.00000	4.14	8616
	54 Bromodichloromethane	83	5.841	5.841	(1.112)	15666	5.00000	4.34	7856
	48 Methyl cyclohexane	83	5.377	5.377	(1.024)	23455	5.00000	5.02	9262
	58 cis-1,3-Dichloropropene	75	6.334	6.334	(1.206)	22886	5.00000	4.59	
	64 4-methyl-2-pentanone	43	6.822	6.822	(1.299)	17719	5.00000	5.12	
$	59 Toluene-d8	98	6.485	6.485	(0.843)	48551	5.00000	4.87	9479
	60 Toluene +	91	6.521	6.521	(0.848)	60295	5.00000	4.96	9431
	67 trans-1,3-Dichloropropene	75	6.840	6.840	(1.303)	19813	5.00000	4.55	
M	74 1-3 Dichloropropene-Total	100				42699	5.00000	4.57	0(a)
	68 1,1,2-Trichloroethane	97	6.960	6.960	(0.905)	11230	5.00000	4.42	8223
	72 1,3-Dichloropropane	76	7.171	7.171	(0.933)	22409	5.00000	4.58	8554
	75 2-Hexanone	43	7.472	7.472	(0.972)	12455	5.00000	4.21	7615
	66 Tetrachloroethene	164	6.822	6.822	(0.887)	7420	5.00000	4.25	8287
	71 Dibromochloromethane	129	7.105	7.105	(0.924)	9570	5.00000	9.99	8403
	73 1,2-Dibromoethane(EDB)	107	7.285	7.285	(0.948)	9610	5.00000	4.08	7395
*	77 Chlorobenzene-d5	82	7.688	7.688	(1.000)	209651	50.0000		7967
	78 Chlorobenzene ++	112	7.700	7.700	(1.002)	34449	5.00000	4.72	3936
	80 1,1,1,2-Tetrachloroethane	133	7.755	7.755	(1.009)	8951	5.00000	4.12	7812
	79 Ethylbenzene +	91	7.724	7.724	(1.005)	64481	5.00000	5.11	9311
	81 p,m-Xylene	106	7.839	7.839	(1.020)	44480	10.0000	9.94	9668
	83 o-Xylene	106	8.182	8.182	(1.064)	20353	5.00000	4.46	
	84 Styrene	104	8.224	8.224	(1.070)	34207	5.00000	4.41	9438
	85 Bromoform ++	173	8.248	8.248	(1.073)	4313	5.00000	3.34	6838
	87 Isopropylbenzene	105	8.429	8.429	(1.096)	53663	5.00000	4.72	9595
$	89 Bromofluorobenzene	174	8.663	8.663	(1.127)	8416	5.00000	4.46	8472

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
92 1,1,2,2-Tetrachloroethane++	83	8.814	8.814	(0.920)	15381	5.00000	5.18	0(M)
96 trans-1,4-Dichloro-2-Butene	53	8.958	8.958	(0.935)	3763	5.00000	4.06	7617(a)
95 1,2,3-Trichloropropane	75	8.928	8.928	(0.932)	18636	5.00000	5.29	9448
90 Bromobenzene	77	8.748	8.748	(0.913)	25053	5.00000	5.25	8448
91 n-Propylbenzene	91	8.766	8.766	(0.915)	70856	5.00000	5.41	9025
93 2-Chlorotoluene	91	8.892	8.892	(0.928)	45778	5.00000	5.41	9103
94 1,3,5-Trimethylbenzene	105	8.922	8.922	(0.932)	44786	5.00000	5.38	
97 4-Chlorotoluene	91	9.031	9.031	(0.943)	41082	5.00000	5.50	9274
M 113 TOTAL XYLENE	106				64833	15.0000	14.4	0
99 tert-butylbenzene	91	9.187	9.187	(0.959)	26255	5.00000	5.31	9523
100 1,2,4-Trimethylbenzene	105	9.247	9.247	(0.965)	43838	5.00000	5.43	
102 sec-Butylbenzene	105	9.331	9.331	(0.974)	59033	5.00000	5.35	
103 p-Isopropyltoluene	119	9.446	9.446	(0.986)	43116	5.00000	5.15	9434
104 1,3-Dichlorobenzene	146	9.518	9.518	(0.994)	20015	5.00000	5.26	
* 105 1,4-DICHLOROBENZENE-D4	152	9.578	9.578	(1.000)	114897	50.0000		6628
106 1,4-Dichlorobenzene	146	9.590	9.590	(1.001)	20695	5.00000	5.17	
109 n-Butylbenzene	91	9.801	9.801	(1.023)	46894	5.00000	5.58	9524
110 1,2-Dichlorobenzene	146	9.945	9.945	(1.038)	17716	5.00000	5.18	
112 1,2-Dibromo-3-Chloropropane	157	10.637	10.637	(1.111)	641	5.00000	1.81	0(M)
115 1,2,4-Trichlorobenzene	180	11.275	11.275	(1.177)	6696	5.00000	4.80	
114 Hexachlorobutadiene	225	11.245	11.245	(1.174)	3996	5.00000	4.74	7263
116 Napthalene	128	11.606	11.606	(1.212)	13473	5.00000	4.66	6581
117 1,2,3-Trichlorobenzene	180	11.787	11.787	(1.231)	5745	5.00000	4.89	(M)
32 Cyclohexane	56	4.402	4.402	(0.838)	22646	5.00000	5.15	8510
18 Methyl Acetate	43	3.343	3.343	(0.608)	14567	5.00000	5.19	0(MH)

QC Flag Legend

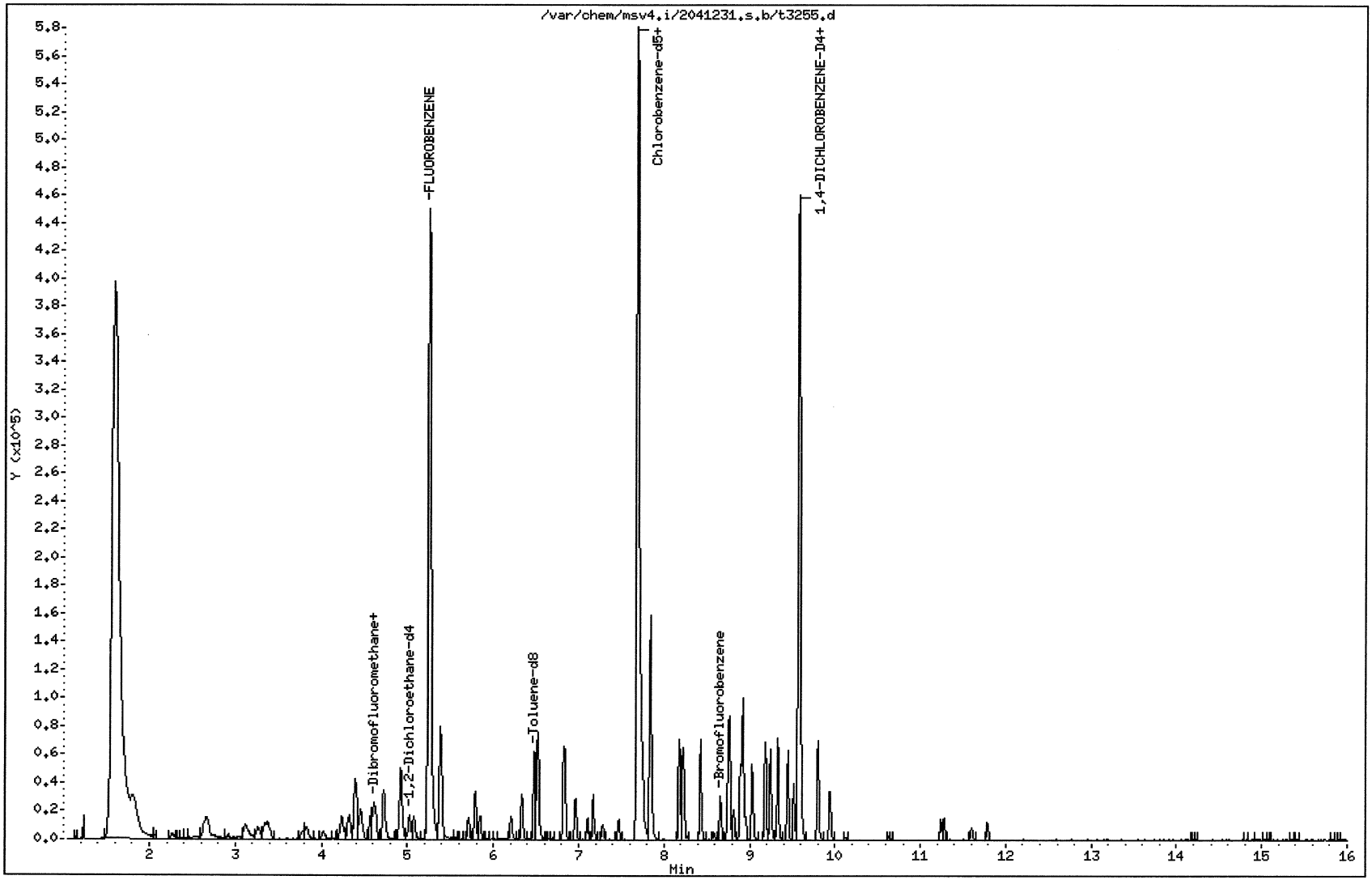
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3255.d
Date : 31-DEC-2004 10:32
Client ID: V4STD005
Sample Info: 1201*V4STD005*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

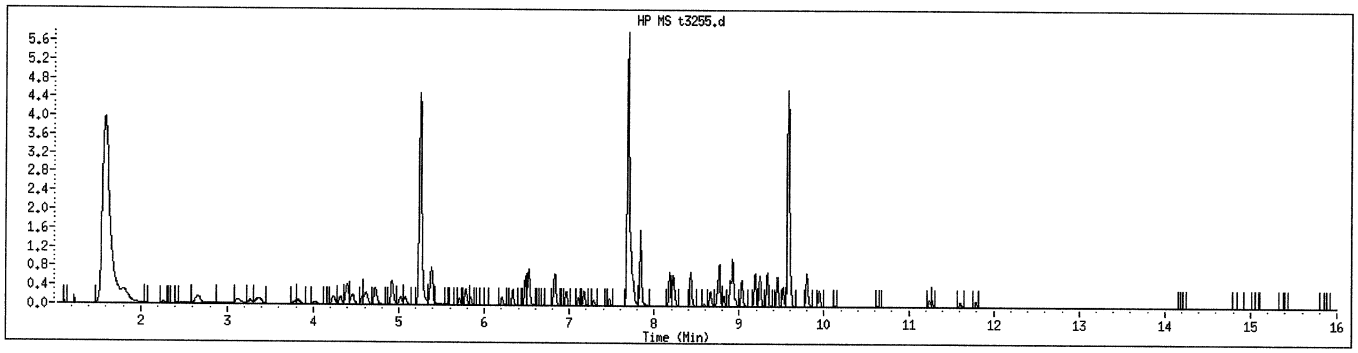


0001177

Data file : /var/chem/msv4.i/2041231.s.b/t3255.d
Report Date: 01/04/2005 08:47

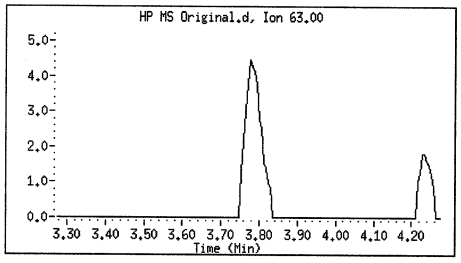
MANUAL INTEGRATION GRAPHIC REPORT

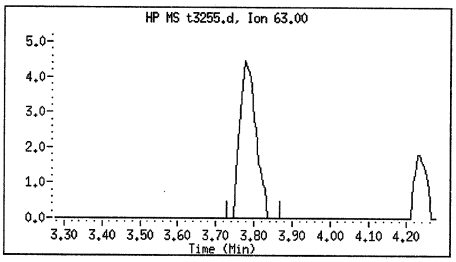
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 31-DEC-2004 10:32	Instrument	: msv4.i
Operator	: RJO		
Sample Info	: 1201*V4STD005*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



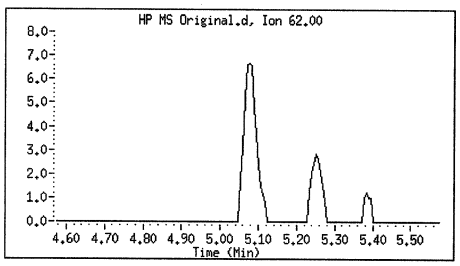
Original | Final

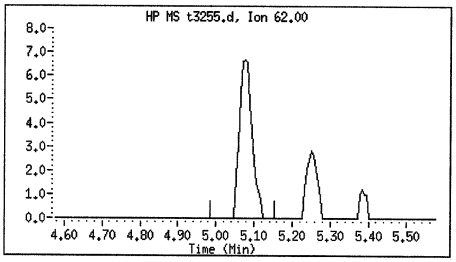
25 1,1-Dichloroethane ++ CAS#: 75-34-3





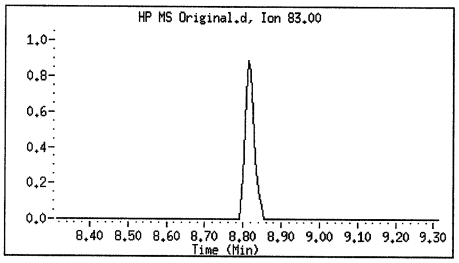
45 1,2-Dichloroethane CAS#: 107-06-2

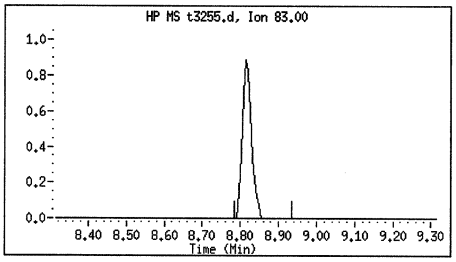




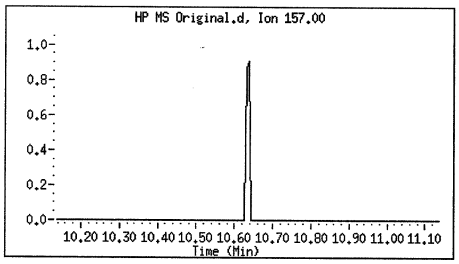
Original Final

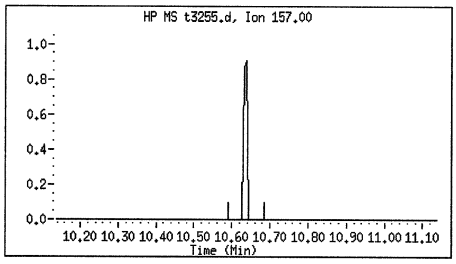
92 1,1,2,2-Tetrachloroethane++ CAS#: 79-34-5



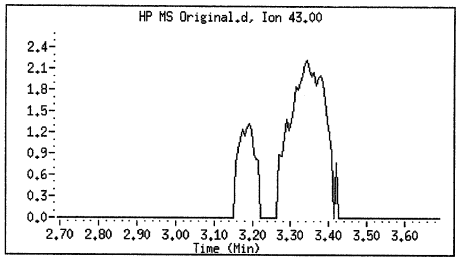


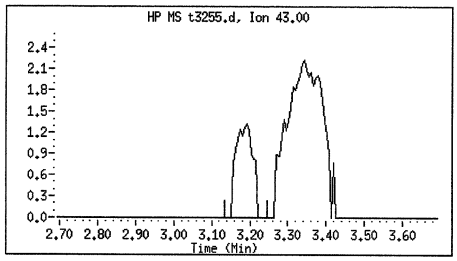
112 1,2-Dibromo-3-Chloropropane CAS#: 96-12-8



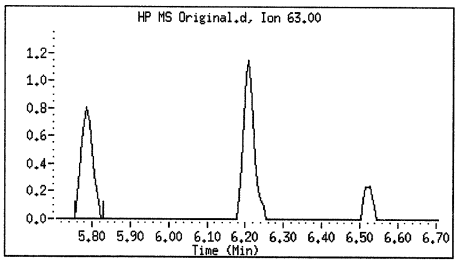


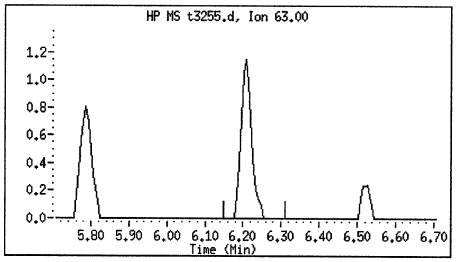
16 Acetone CAS#: 67-64-1



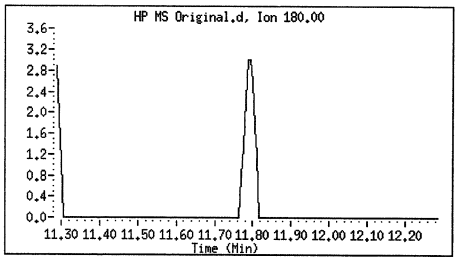


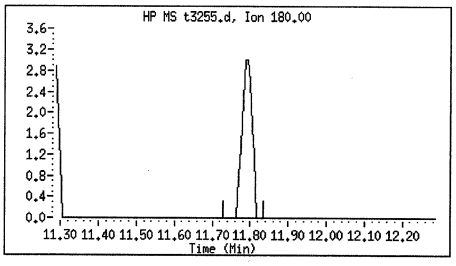
57 2-Chloroethyl vinyl ether CAS#: 110-75-8





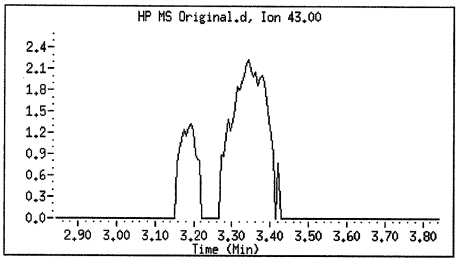
117 1,2,3-Trichlorobenzene CAS#: 87-61-6

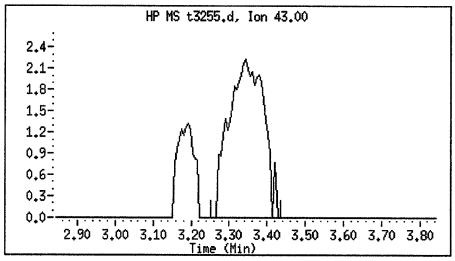




Original Final

18 Methyl Acetate CAS#: 79-20-9





GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3256.d
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Inj Date : 31-DEC-2004 10:53
Operator : MEF Inst ID: msv4.i
Smp Info : 1202*V4STD020*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
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Meth Date : 04-Jan-2005 08:47 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 10:53 Cal File: t3256.d
Als bottle: 5 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) * CpndVariable

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

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	1.673	1.673	(0.319)	61508	20.0000	19.8	3420
2 Chloromethane ++	50	1.800	1.800	(0.343)	66360	20.0000	21.3	6352
3 Vinyl Chloride +	62	1.854	1.854	(0.353)	55120	20.0000	20.1	6331
5 Bromomethane	94	2.059	2.059	(0.392)	9204	20.0000	23.6	7605
6 Chloroethane	64	2.161	2.161	(0.412)	4627	20.0000	25.1	0(M)
7 Trichlorofluoromethane	101	2.263	2.263	(0.431)	34511	20.0000	27.0	8880
13 Acrolein	56	2.913	2.913	(0.555)	16411	100.000	108	8177
11 1,1,2Trichlotrifluoroethane	101	2.673	2.673	(0.509)	27540	20.0000	21.8	8361
9 1,1-Dichloroethene +	96	2.630	2.630	(0.501)	22658	20.0000	22.1	8034
16 Acetone	43	3.184	3.184	(0.607)	15356	20.0000	20.5	7632
12 Methyl Iodide	142	2.745	2.745	(0.523)	23590	20.0000	18.2	7320
10 Carbon Disulfide	76	2.660	2.660	(0.507)	88213	20.0000	21.8	7469
15 Methylene Chloride	49	3.118	3.118	(0.594)	35768	20.0000	19.1	8831

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	27 Acrylonitrile	53	3.828	3.828	(0.729)	49200	100.000	102	8964
	17 trans-1,2-Dichloroethene	61	3.256	3.256	(0.620)	36726	20.0000	20.5	8666
	20 MTBE	73	3.377	3.377	(0.643)	74423	20.0000	19.5	8479
	19 Hexane	57	3.335	3.335	(0.635)	47986	20.0000	21.2	8963
	28 Vinyl Acetate	43	4.015	4.015	(0.765)	50966	20.0000	19.1	
	25 1,1-Dichloroethane ++	63	3.774	3.774	(0.719)	51003	20.0000	19.5	8750
	39 2-Butanone	43	4.725	4.725	(0.900)	64364	20.0000	19.7	
M	63 Total 1,2-Dichloroethene	61				98268	40.0000	41.8	0
	29 cis-1,2-Dichloroethene	61	4.231	4.231	(0.806)	61542	20.0000	21.1	9447
	30 2,2-Dichloropropane	77	4.316	4.316	(0.822)	71472	20.0000	20.6	9239
	31 Bromochloromethane	128	4.388	4.388	(0.836)	24970	20.0000	20.2	9195
	33 Chloroform +	83	4.454	4.454	(0.849)	96097	20.0000	20.3	9151
$	36 Dibromofluoromethane	111	4.604	4.604	(0.877)	48887	20.0000	20.2	7132
	37 1,1,1-Trichloroethane	97	4.623	4.623	(0.881)	73179	20.0000	20.2	8879
	40 1,1-Dichloropropene	75	4.719	4.719	(0.899)	79424	20.0000	21.1	8330
	35 Carbon Tetrachloride	117	4.568	4.568	(0.870)	66185	20.0000	19.5	9308
$	43 1,2-Dichloroethane-d4	67	5.020	5.020	(0.956)	30358	20.0000	19.7	9328
	45 1,2-Dichloroethane	62	5.074	5.074	(0.967)	68012	20.0000	20.0	9337
	42 Benzene	78	4.917	4.917	(0.937)	260837	20.0000	20.8	9667
*	47 FLUOROBENZENE	96	5.248	5.248	(1.000)	529289	50.0000		9667
	49 Trichloroethene	130	5.387	5.387	(1.026)	54348	20.0000	19.8	9609
	52 1,2-Dichloropropane +	63	5.784	5.784	(1.102)	69508	20.0000	20.5	9597
	57 2-Chloroethyl vinyl ether	63	6.205	6.205	(1.182)	98246	20.0000	20.1	4924(M)
	56 1-Bromo-2-chloroethane	63	6.205	6.205	(1.182)	98250	20.0000	19.9	8764
	51 Dibromomethane	93	5.706	5.706	(1.087)	32812	20.0000	19.5	9234
	54 Bromodichloromethane	83	5.838	5.838	(1.112)	70047	20.0000	19.7	9487
	48 Methyl cyclohexane	83	5.375	5.375	(1.024)	99098	20.0000	21.5	9411
	58 cis-1,3-Dichloropropene	75	6.332	6.332	(1.206)	97432	20.0000	19.8	
	64 4-methyl-2-pentanone	43	6.819	6.819	(1.299)	78297	20.0000	23.0	
$	59 Toluene-d8	98	6.482	6.482	(0.843)	192817	20.0000	19.4	9779
	60 Toluene +	91	6.518	6.518	(0.848)	242840	20.0000	20.0	9701
	67 trans-1,3-Dichloropropene	75	6.837	6.837	(1.303)	89880	20.0000	20.9	
M	74 1-3 Dichloropropene-Total	100				187312	20.0000	20.4	0
	68 1,1,2-Trichloroethane	97	6.964	6.964	(0.906)	48723	20.0000	19.2	9832
	72 1,3-Dichloropropane	76	7.168	7.168	(0.933)	97211	20.0000	19.9	9510
	75 2-Hexanone	43	7.469	7.469	(0.972)	58449	20.0000	19.8	9399
	66 Tetrachloroethene	164	6.819	6.819	(0.887)	32549	20.0000	18.7	8259
	71 Dibromochloromethane	129	7.102	7.102	(0.924)	45035	20.0000	21.5	9343
	73 1,2-Dibromoethane(EDB)	107	7.283	7.283	(0.948)	44454	20.0000	18.9	9016
*	77 Chlorobenzene-d5	82	7.686	7.686	(1.000)	209164	50.0000		8779
	78 Chlorobenzene ++	112	7.704	7.704	(1.002)	141294	20.0000	19.4	7898
	80 1,1,1,2-Tetrachloroethane	133	7.752	7.752	(1.009)	40078	20.0000	18.5	9180
	79 Ethylbenzene +	91	7.722	7.722	(1.005)	256273	20.0000	20.4	9518
	81 p,m-Xylene	106	7.836	7.836	(1.020)	190155	40.0000	42.6	9722(H)
	83 o-Xylene	106	8.180	8.180	(1.064)	87501	20.0000	19.2	
	84 Styrene	104	8.222	8.222	(1.070)	148974	20.0000	19.2	9666
	85 Bromoform ++	173	8.240	8.240	(1.072)	23040	20.0000	17.9	7074

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
87 Isopropylbenzene	105	8.426	8.426	(1.096)	220699	20.0000	19.5	9697
$ 89 Bromofluorobenzene	174	8.661	8.661	(1.127)	33517	20.0000	17.8	9258
92 1,1,2,2-Tetrachloroethane++	83	8.811	8.811	(0.920)	64753	20.0000	21.8	9464
96 trans-1,4-Dichloro-2-Butene	53	8.956	8.956	(0.935)	20743	20.0000	22.3	9066
95 1,2,3-Trichloropropane	75	8.926	8.926	(0.932)	79872	20.0000	22.6	9431
90 Bromobenzene	77	8.745	8.745	(0.913)	104881	20.0000	21.9	8548
91 n-Propylbenzene	91	8.763	8.763	(0.915)	290112	20.0000	22.1	9109
93 2-Chlorotoluene	91	8.896	8.896	(0.929)	186836	20.0000	22.0	9453
94 1,3,5-Trimethylbenzene	105	8.926	8.926	(0.932)	181831	20.0000	21.8	
97 4-Chlorotoluene	91	9.028	9.028	(0.943)	164550	20.0000	22.0	9610
M 113 TOTAL XYLENE	106				277656	60.0000	61.8	0
99 tert-butylbenzene	91	9.185	9.185	(0.959)	108065	20.0000	21.8	9631
100 1,2,4-Trimethylbenzene	105	9.245	9.245	(0.965)	172060	20.0000	21.3	
102 sec-Butylbenzene	105	9.329	9.329	(0.974)	236662	20.0000	21.4	
103 p-Isopropyltoluene	119	9.449	9.449	(0.987)	176312	20.0000	21.0	9785
104 1,3-Dichlorobenzene	146	9.516	9.516	(0.994)	77786	20.0000	20.4	
* 105 1,4-DICHLOROBENZENE-D4	152	9.576	9.576	(1.000)	115177	50.0000		7701
106 1,4-Dichlorobenzene	146	9.588	9.588	(1.001)	82182	20.0000	20.5	
109 n-Butylbenzene	91	9.799	9.799	(1.023)	182820	20.0000	21.7	9739
110 1,2-Dichlorobenzene	146	9.943	9.943	(1.038)	70837	20.0000	20.6	
112 1,2-Dibromo-3-Chloropropane	157	10.629	10.629	(1.110)	7397	20.0000	22.1	7871
115 1,2,4-Trichlorobenzene	180	11.273	11.273	(1.177)	30094	20.0000	21.5	
114 Hexachlorobutadiene	225	11.243	11.243	(1.174)	18332	20.0000	21.7	9693
116 Napthalene	128	11.598	11.598	(1.211)	64064	20.0000	22.1	9337
117 1,2,3-Trichlorobenzene	180	11.791	11.791	(1.231)	25671	20.0000	21.8	
32 Cyclohexane	56	4.394	4.394	(0.837)	94862	20.0000	21.9	9353
18 Methyl Acetate	43	3.347	3.347	(0.638)	56664	20.0000	20.5	0(M)

QC Flag Legend

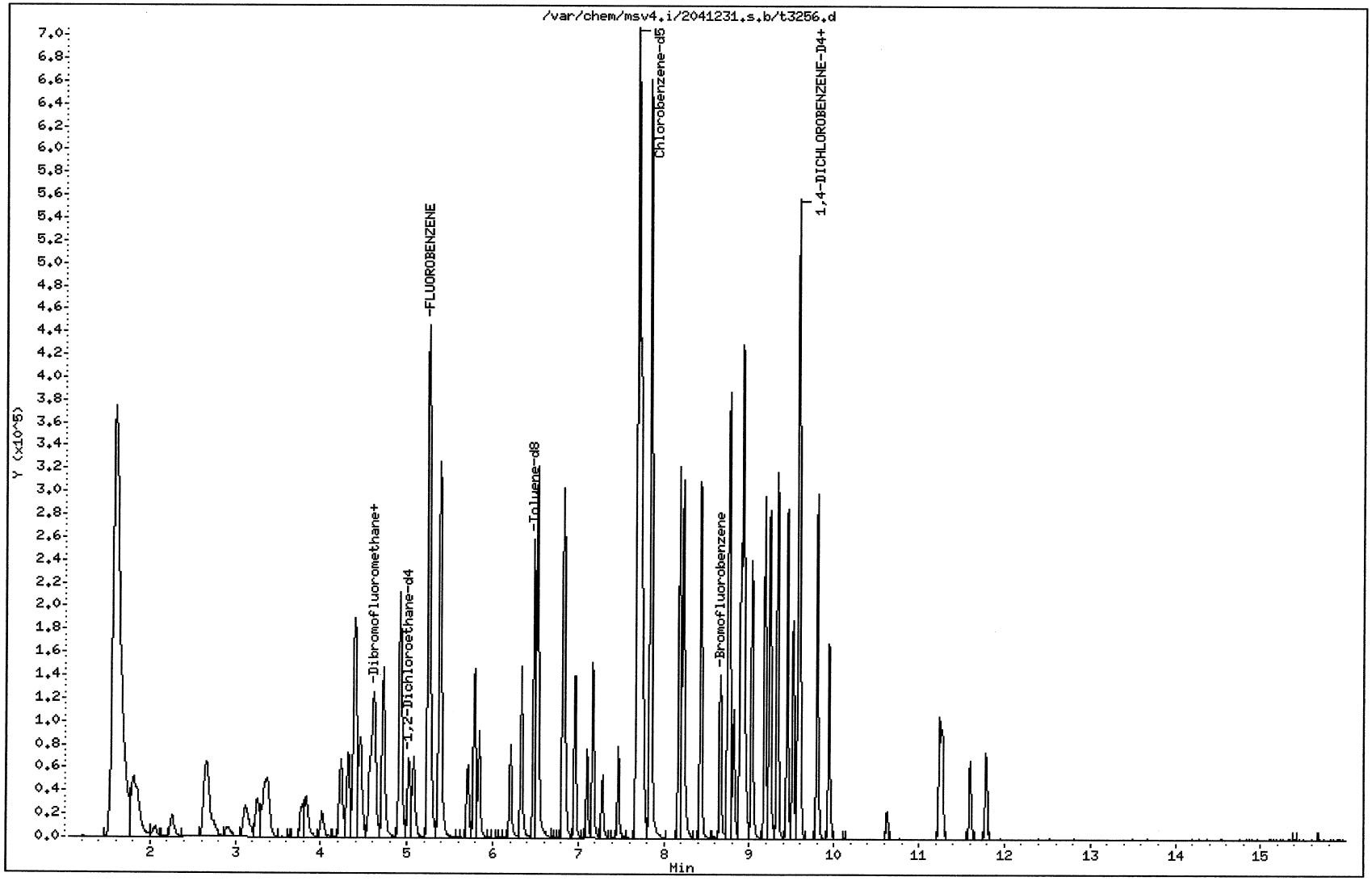
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3256.d
Date : 31-DEC-2004 10:53
Client ID: V4STD020
Sample Info: 1202*V4STD020*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

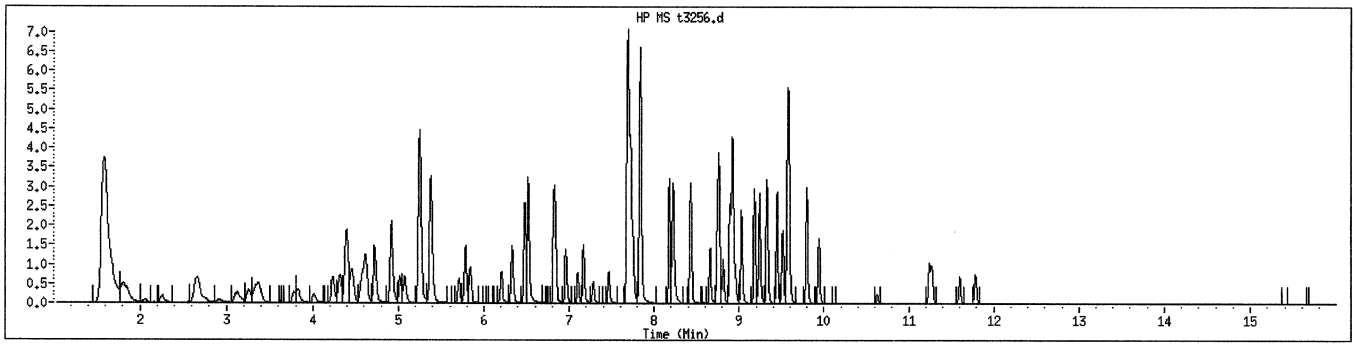
Operator: MEF
Column diameter: 0.53



000184

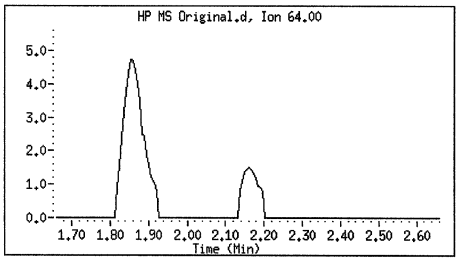
MANUAL INTEGRATION GRAPHIC REPORT

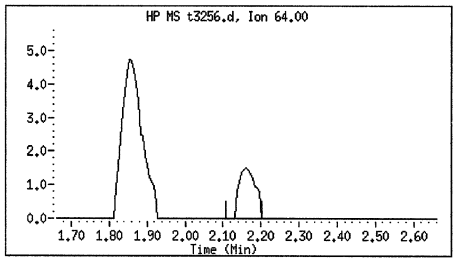
Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 31-DEC-2004 10:53	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 1202*V4STD020*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



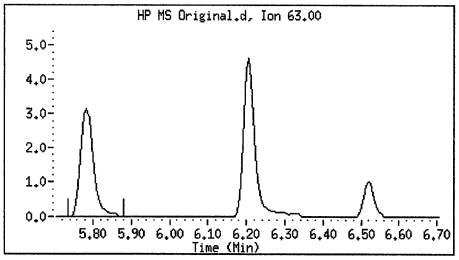
Original Final

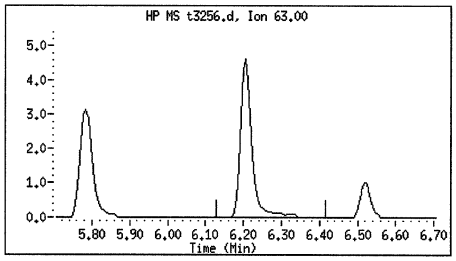
6 Chloroethane CAS#: 75-00-3





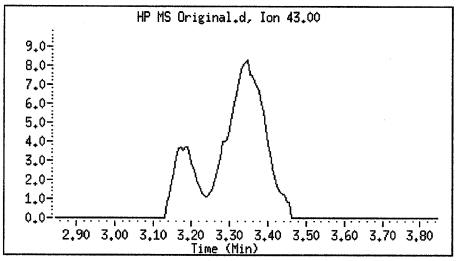
57 2-Chloroethyl vinyl ether CAS#: 110-75-8

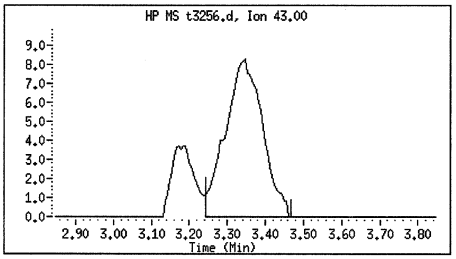




Original Final

18 Methyl Acetate CAS#: 79-20-9





GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3257.d
Lab Smp Id: 1203 Client Smp ID: V4STD050
Inj Date : 31-DEC-2004 11:15
Operator : MEF Inst ID: msv4.i
Smp Info : 1203*V4STD050*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:47 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 11:15 Cal File: t3257.d
Als bottle: 6 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) * CpndVariable

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

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	1.673	1.673	(0.319)	161240	50.0000	51.7	5905
2 Chloromethane ++	50	1.806	1.806	(0.344)	140696	50.0000	45.0	8330
3 Vinyl Chloride +	62	1.854	1.854	(0.353)	145198	50.0000	52.7	7899
5 Bromomethane	94	2.053	2.053	(0.391)	17921	50.0000	45.8	7872
6 Chloroethane	64	2.143	2.143	(0.408)	7753	50.0000	41.9	0(M)
7 Trichlorofluoromethane	101	2.245	2.245	(0.428)	49918	50.0000	38.9	8880
13 Acrolein	56	2.895	2.895	(0.552)	40269	250.000	265	8800(A)
11 1,1,2Trichlotrifluoroethane	101	2.660	2.660	(0.507)	63901	50.0000	50.4	8439
9 1,1-Dichloroethene +	96	2.624	2.624	(0.500)	51197	50.0000	49.7	8331
16 Acetone	43	3.172	3.172	(0.604)	37598	50.0000	50.0	7030
12 Methyl Iodide	142	2.739	2.739	(0.522)	72306	50.0000	48.7	7612
10 Carbon Disulfide	76	2.642	2.642	(0.503)	196115	50.0000	48.3	7409
15 Methylene Chloride	49	3.106	3.106	(0.592)	89629	50.0000	50.8	9056

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	27 Acrylonitrile	53	3.828	3.828	(0.729)	128400	250.000	266	9191(A)
	17 trans-1,2-Dichloroethene	61	3.250	3.250	(0.619)	91798	50.0000	51.2	9102
	20 MTBE	73	3.371	3.371	(0.642)	197225	50.0000	51.5	8674
	19 Hexane	57	3.335	3.335	(0.635)	115106	50.0000	50.7	9111
	28 Vinyl Acetate	43	4.015	4.015	(0.765)	140451	50.0000	52.5	
	25 1,1-Dichloroethane ++	63	3.774	3.774	(0.719)	137521	50.0000	52.4	9338
	39 2-Butanone	43	4.719	4.719	(0.899)	133052	50.0000	54.9	
M	63 Total 1,2-Dichloroethene	61				247143	100.000	105	0
	29 cis-1,2-Dichloroethene	61	4.225	4.225	(0.805)	155345	50.0000	53.2	9785
	30 2,2-Dichloropropane	77	4.310	4.310	(0.821)	180342	50.0000	51.9	9477
	31 Bromochloromethane	128	4.388	4.388	(0.836)	67264	50.0000	54.2	9261
	33 Chloroform +	83	4.454	4.454	(0.849)	251399	50.0000	53.0	9375
$	36 Dibromofluoromethane	111	4.598	4.598	(0.876)	127221	50.0000	52.5	7417
	37 1,1,1-Trichloroethane	97	4.616	4.616	(0.880)	190924	50.0000	52.6	8639
	40 1,1-Dichloropropene	75	4.719	4.719	(0.899)	199473	50.0000	52.8	8563
	35 Carbon Tetrachloride	117	4.568	4.568	(0.870)	174480	50.0000	51.4	9161
$	43 1,2-Dichloroethane-d4	67	5.020	5.020	(0.956)	80397	50.0000	52.1	9450
	45 1,2-Dichloroethane	62	5.068	5.068	(0.966)	179444	50.0000	52.7	9417
	42 Benzene	78	4.917	4.917	(0.937)	644580	50.0000	51.4	9811
*	47 FLUOROBENZENE	96	5.248	5.248	(1.000)	530623	50.0000		9716
	49 Trichloroethene	130	5.381	5.381	(1.025)	147768	50.0000	53.6	9639
	52 1,2-Dichloropropane +	63	5.778	5.778	(1.101)	180081	50.0000	52.9	9584
	57 2-Chloroethyl vinyl ether	63	6.205	6.205	(1.182)	259844	50.0000	53.1	4887(M)
	56 1-Bromo-2-chloroethane	63	6.205	6.205	(1.182)	259848	50.0000	52.5	9182
	51 Dibromomethane	93	5.706	5.706	(1.087)	90475	50.0000	53.6	9448
	54 Bromodichloromethane	83	5.838	5.838	(1.112)	186901	50.0000	52.4	9752
	48 Methyl cyclohexane	83	5.375	5.375	(1.024)	253865	50.0000	55.0	9766
	58 cis-1,3-Dichloropropene	75	6.332	6.332	(1.206)	261509	50.0000	53.1	
	64 4-methyl-2-pentanone	43	6.813	6.813	(1.298)	190655	50.0000	55.8	
$	59 Toluene-d8	98	6.476	6.476	(0.843)	503219	50.0000	51.8	9848
	60 Toluene +	91	6.518	6.518	(0.848)	620335	50.0000	52.4	9780
	67 trans-1,3-Dichloropropene	75	6.837	6.837	(1.303)	236804	50.0000	55.1	
M	74 1-3 Dichloropropene-Total	100				498313	50.0000	54.0	0
	68 1,1,2-Trichloroethane	97	6.958	6.958	(0.905)	126603	50.0000	51.2	9808
	72 1,3-Dichloropropane	76	7.168	7.168	(0.933)	246339	50.0000	51.8	9529
	75 2-Hexanone	43	7.463	7.463	(0.971)	146050	50.0000	50.7	9514
	66 Tetrachloroethene	164	6.819	6.819	(0.887)	88832	50.0000	52.3	8550
	71 Dibromochloromethane	129	7.102	7.102	(0.924)	124343	50.0000	48.3	9563
	73 1,2-Dibromoethane(EDB)	107	7.283	7.283	(0.948)	118231	50.0000	51.6	9298
*	77 Chlorobenzene-d5	82	7.686	7.686	(1.000)	204053	50.0000		9637
	78 Chlorobenzene ++	112	7.698	7.698	(1.002)	367267	50.0000	51.7	8266
	80 1,1,1,2-Tetrachloroethane	133	7.752	7.752	(1.009)	109838	50.0000	51.9	9424
	79 Ethylbenzene +	91	7.722	7.722	(1.005)	656804	50.0000	53.5	9643
	81 p,m-Xylene	106	7.836	7.836	(1.020)	495020	100.000	114	9675(H)
	83 o-Xylene	106	8.179	8.179	(1.064)	224075	50.0000	50.5	
	84 Styrene	104	8.222	8.222	(1.070)	392673	50.0000	52.0	9752
	85 Bromoform ++	173	8.240	8.240	(1.072)	64292	50.0000	51.1	7408

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
87 Isopropylbenzene	105	8.432	8.432	(1.097)	559215	50.0000	50.6	9851
$ 89 Bromofluorobenzene	174	8.661	8.661	(1.127)	90086	50.0000	49.1	9322
92 1,1,2,2-Tetrachloroethane++	83	8.811	8.811	(0.920)	156746	50.0000	50.9	9565
96 trans-1,4-Dichloro-2-Butene	53	8.956	8.956	(0.935)	55073	50.0000	57.3	9255
95 1,2,3-Trichloropropane	75	8.926	8.926	(0.932)	196537	50.0000	53.8	9401
90 Bromobenzene	77	8.745	8.745	(0.913)	260514	50.0000	52.6	8518
91 n-Propylbenzene	91	8.763	8.763	(0.915)	712659	50.0000	52.5	9047
93 2-Chlorotoluene	91	8.896	8.896	(0.929)	446011	50.0000	50.9	9475
94 1,3,5-Trimethylbenzene	105	8.926	8.926	(0.932)	457768	50.0000	53.0	
97 4-Chlorotoluene	91	9.028	9.028	(0.943)	386752	50.0000	49.9	9703
M 113 TOTAL XYLENE	106				719095	150.000	164	0
99 tert-butylbenzene	91	9.185	9.185	(0.959)	266816	50.0000	52.0	9753
100 1,2,4-Trimethylbenzene	105	9.245	9.245	(0.965)	423359	50.0000	50.5	
102 sec-Butylbenzene	105	9.329	9.329	(0.974)	579608	50.0000	50.6	
103 p-Isopropyltoluene	119	9.449	9.449	(0.987)	445644	50.0000	51.3	9851
104 1,3-Dichlorobenzene	146	9.516	9.516	(0.994)	194608	50.0000	49.4	
* 105 1,4-DICHLOROBENZENE-D4	152	9.576	9.576	(1.000)	119173	50.0000		9122
106 1,4-Dichlorobenzene	146	9.588	9.588	(1.001)	207392	50.0000	50.0	
109 n-Butylbenzene	91	9.798	9.798	(1.023)	444683	50.0000	51.0	9783
110 1,2-Dichlorobenzene	146	9.937	9.937	(1.038)	177540	50.0000	50.0	
112 1,2-Dibromo-3-Chloropropane	157	10.629	10.629	(1.110)	18314	50.0000	53.1	8906
115 1,2,4-Trichlorobenzene	180	11.273	11.273	(1.177)	73104	50.0000	50.5	
114 Hexachlorobutadiene	225	11.243	11.243	(1.174)	43095	50.0000	49.3	9708
116 Napthalene	128	11.598	11.598	(1.211)	151343	50.0000	50.5	9487
117 1,2,3-Trichlorobenzene	180	11.791	11.791	(1.231)	62331	50.0000	51.1	
32 Cyclohexane	56	4.388	4.388	(0.836)	235934	50.0000	54.3	9481
18 Methyl Acetate	43	3.322	3.322	(0.633)	139192	50.0000	50.2	9020

QC Flag Legend

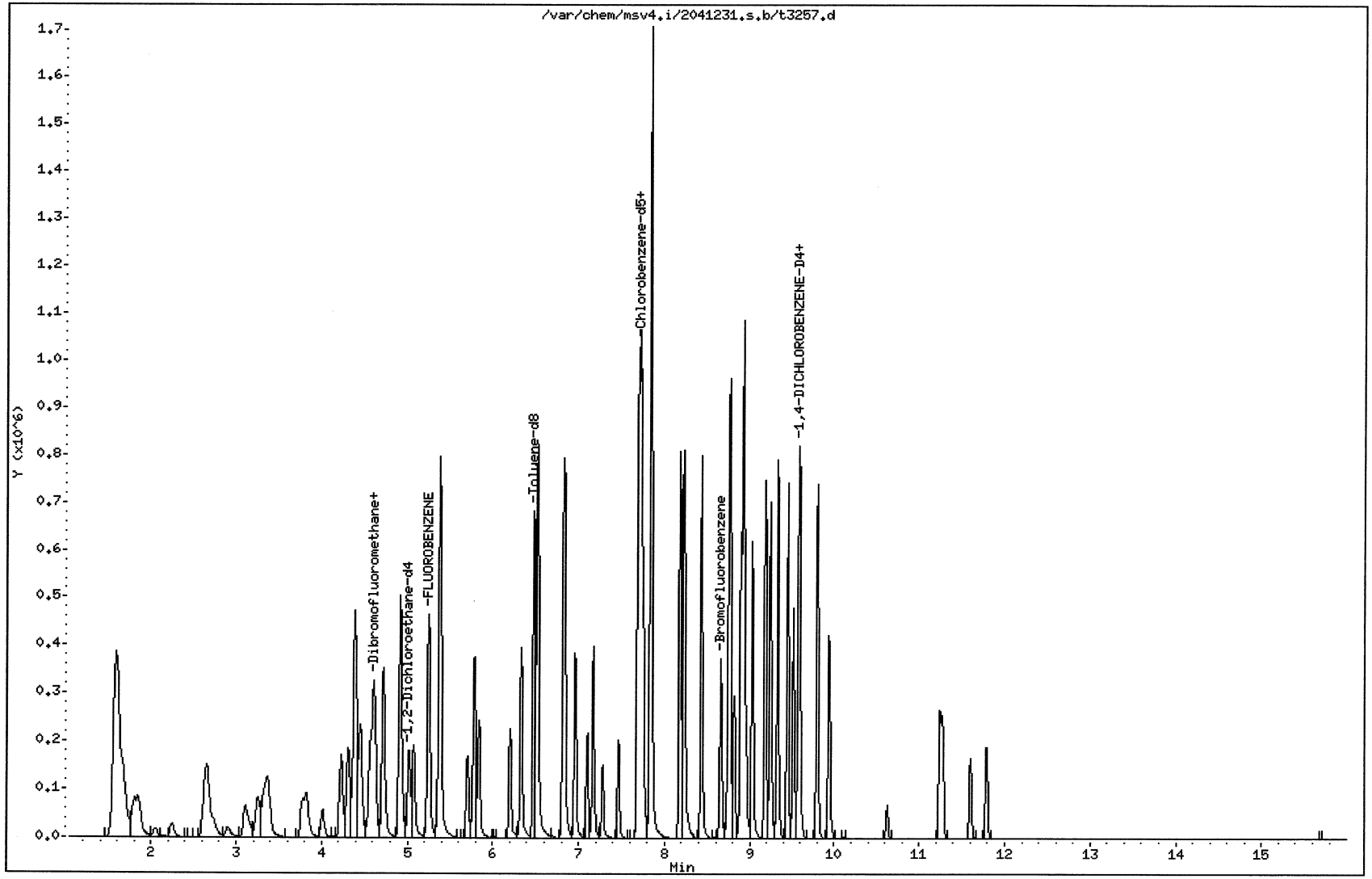
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3257.d
Date : 31-DEC-2004 11:15
Client ID: V4STD050
Sample Info: 1203*V4STD050*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53



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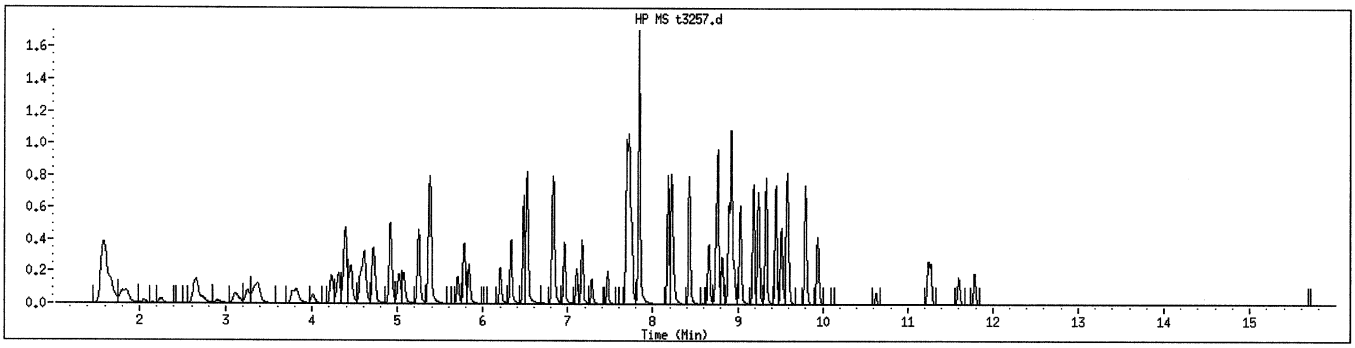
Data file : /var/chem/msv4.i/2041231.s.b/t3257.d
Report Date: 01/04/2005 08:47

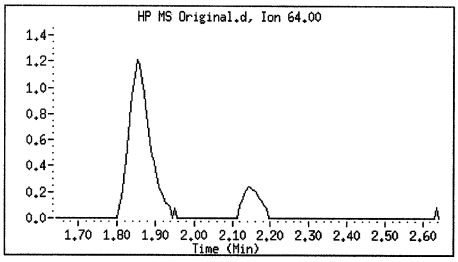
MANUAL INTEGRATION GRAPHIC REPORT

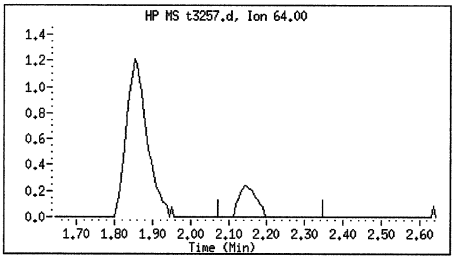
Lab ID	: 1203	SampleType	: CALIB_3
Injection Date	: 31-DEC-2004 11:15	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 1203*V4STD050*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



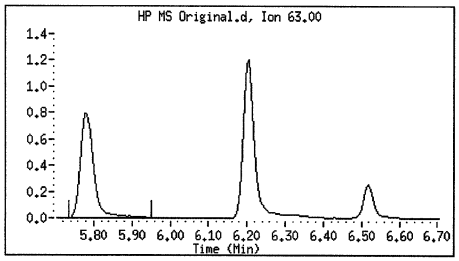
Original | Final

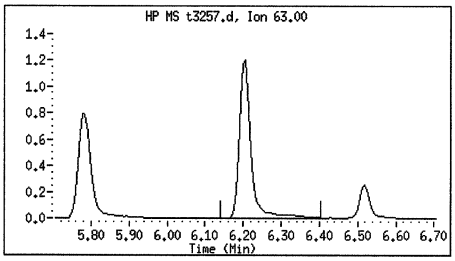
6 Chloroethane CAS#: 75-00-3





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





GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3258.d
Lab Smp Id: 1204 Client Smp ID: V4STD100
Inj Date : 31-DEC-2004 11:38
Operator : MEF Inst ID: msv4.i
Smp Info : 1204*V4STD100*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:47 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 11:38 Cal File: t3258.d
Als bottle: 7 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) * CpndVariable

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

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	1.661	1.661	(0.317)	295568	100.000	96.7	7093
2 Chloromethane ++	50	1.787	1.787	(0.341)	264108	100.000	86.1	9170
3 Vinyl Chloride +	62	1.847	1.847	(0.352)	261833	100.000	97.0	8424
5 Bromomethane	94	2.052	2.052	(0.391)	40487	100.000	105	8456
6 Chloroethane	64	2.142	2.142	(0.409)	18082	100.000	99.7	7372(M)
7 Trichlorofluoromethane	101	2.238	2.238	(0.427)	117271	100.000	93.2	9291
13 Acrolein	56	2.894	2.894	(0.552)	81857	500.000	549	9051(A)
11 1,1,2Trichlotrifluoroethane	101	2.660	2.660	(0.507)	121056	100.000	97.4	8840
9 1,1-Dichloroethene +	96	2.618	2.618	(0.499)	100861	100.000	99.9	8514
16 Acetone	43	3.165	3.165	(0.604)	67865	100.000	92.0	7066
12 Methyl Iodide	142	2.732	2.732	(0.521)	157023	100.000	104	7843
10 Carbon Disulfide	76	2.636	2.636	(0.503)	379189	100.000	95.2	7485
15 Methylene Chloride	49	3.105	3.105	(0.592)	169977	100.000	100	9183

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	27 Acrylonitrile	53	3.815	3.815	(0.728)	245744	500.000	520	8952(A)
	17 trans-1,2-Dichloroethene	61	3.237	3.237	(0.618)	175474	100.000	99.8	9147
	20 MTBE	73	3.364	3.364	(0.642)	388769	100.000	104	8881
	19 Hexane	57	3.322	3.322	(0.634)	211371	100.000	94.9	9092
	28 Vinyl Acetate	43	4.002	4.002	(0.763)	267354	100.000	102	
	25 1,1-Dichloroethane ++	63	3.767	3.767	(0.719)	257634	100.000	100	9559
	39 2-Butanone	43	4.712	4.712	(0.899)	226683	100.000	105	
M	63 Total 1,2-Dichloroethene	61				416232	200.000	180	0
	29 cis-1,2-Dichloroethene	61	4.224	4.224	(0.806)	240758	100.000	84.2	9811
	30 2,2-Dichloropropane	77	4.309	4.309	(0.822)	327588	100.000	96.2	9555
	31 Bromochloromethane	128	4.381	4.381	(0.836)	130288	100.000	107	9544
	33 Chloroform +	83	4.447	4.447	(0.848)	466607	100.000	100	9402
$	36 Dibromofluoromethane	111	4.592	4.592	(0.876)	241675	100.000	102	7663
	37 1,1,1-Trichloroethane	97	4.616	4.616	(0.881)	357789	100.000	101	8896
	40 1,1-Dichloropropene	75	4.712	4.712	(0.899)	361541	100.000	97.6	8768
	35 Carbon Tetrachloride	117	4.562	4.562	(0.870)	336493	100.000	101	9403
$	43 1,2-Dichloroethane-d4	67	5.013	5.013	(0.956)	158469	100.000	105	9531
	45 1,2-Dichloroethane	62	5.067	5.067	(0.967)	339089	100.000	101	9522
	42 Benzene	78	4.911	4.911	(0.937)	1218753	100.000	99.1	9837
*	47 FLUOROBENZENE	96	5.242	5.242	(1.000)	520260	50.0000		9638
	49 Trichloroethene	130	5.380	5.380	(1.026)	279533	100.000	103	9740
	52 1,2-Dichloropropane +	63	5.777	5.777	(1.102)	336611	100.000	101	9598
	57 2-Chloroethyl vinyl ether	63	6.199	6.199	(1.183)	487870	100.000	102	4511(MH)
	56 1-Bromo-2-chloroethane	63	6.199	6.199	(1.183)	499426	100.000	103	9160
	51 Dibromomethane	93	5.699	5.699	(1.087)	173776	100.000	105	9496
	54 Bromodichloromethane	83	5.831	5.831	(1.113)	366252	100.000	105	9679
	48 Methyl cyclohexane	83	5.368	5.368	(1.024)	433620	100.000	95.9	9745
	58 cis-1,3-Dichloropropene	75	6.331	6.331	(1.208)	500375	100.000	104	
	64 4-methyl-2-pentanone	43	6.812	6.812	(1.300)	333502	100.000	99.5	
$	59 Toluene-d8	98	6.475	6.475	(0.843)	968870	100.000	98.7	9864
	60 Toluene +	91	6.518	6.518	(0.848)	1173005	100.000	98.0	9837
	67 trans-1,3-Dichloropropene	75	6.837	6.837	(1.304)	448252	100.000	106	
M	74 1-3 Dichloropropene-Total	100				948627	100.000	105	0
	68 1,1,2-Trichloroethane	97	6.957	6.957	(0.905)	251408	100.000	100	9817
	72 1,3-Dichloropropane	76	7.168	7.168	(0.933)	476426	100.000	99.0	9595
	75 2-Hexanone	43	7.462	7.462	(0.971)	297648	100.000	102	9543
	66 Tetrachloroethene	164	6.819	6.819	(0.887)	179337	100.000	104	8804
	71 Dibromochloromethane	129	7.101	7.101	(0.924)	256862	100.000	91.4	9624
	73 1,2-Dibromoethane(EDB)	107	7.282	7.282	(0.948)	237009	100.000	102	9468
*	77 Chlorobenzene-d5	82	7.685	7.685	(1.000)	206399	50.0000		8578
	78 Chlorobenzene ++	112	7.703	7.703	(1.002)	746293	100.000	104	9108
	80 1,1,1,2-Tetrachloroethane	133	7.751	7.751	(1.009)	227314	100.000	106	9408
	79 Ethylbenzene +	91	7.721	7.721	(1.005)	1269906	100.000	102	9685
	81 p,m-Xylene	106	7.842	7.842	(1.020)	922094	200.000	209	9457(AH)
	83 o-Xylene	106	8.179	8.179	(1.064)	467830	100.000	104	
	84 Styrene	104	8.221	8.221	(1.070)	823786	100.000	108	9609
	85 Bromoform ++	173	8.239	8.239	(1.072)	145096	100.000	114	7338

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
87 Isopropylbenzene	105	8.431	8.431	(1.097)	1133917	100.000	101	9812
$ 89 Bromofluorobenzene	174	8.660	8.660	(1.127)	189412	100.000	102	9435
92 1,1,2,2-Tetrachloroethane++	83	8.817	8.817	(0.921)	311021	100.000	93.3	9632
96 trans-1,4-Dichloro-2-Butene	53	8.955	8.955	(0.935)	108351	100.000	104	9250
95 1,2,3-Trichloropropane	75	8.925	8.925	(0.932)	388903	100.000	98.2	9156
90 Bromobenzene	77	8.744	8.744	(0.913)	525908	100.000	98.1	8062
91 n-Propylbenzene	91	8.762	8.762	(0.915)	1429787	100.000	97.2	9082
93 2-Chlorotoluene	91	8.895	8.895	(0.929)	908045	100.000	95.6	9407
94 1,3,5-Trimethylbenzene	105	8.925	8.925	(0.932)	940163	100.000	101	
97 4-Chlorotoluene	91	9.027	9.027	(0.943)	782806	100.000	93.2	9750
M 113 TOTAL XYLENE	106				1389924	300.000	314	0
99 tert-butylbenzene	91	9.184	9.184	(0.959)	537774	100.000	96.8	9748
100 1,2,4-Trimethylbenzene	105	9.244	9.244	(0.965)	862811	100.000	95.1	
102 sec-Butylbenzene	105	9.328	9.328	(0.974)	1179148	100.000	95.0	
103 p-Isopropyltoluene	119	9.449	9.449	(0.987)	918158	100.000	97.6	9840
104 1,3-Dichlorobenzene	146	9.515	9.515	(0.994)	402372	100.000	94.2	
* 105 1,4-DICHLOROBENZENE-D4	152	9.575	9.575	(1.000)	129076	50.0000		9754
106 1,4-Dichlorobenzene	146	9.587	9.587	(1.001)	435940	100.000	96.9	
109 n-Butylbenzene	91	9.798	9.798	(1.023)	860524	100.000	91.1	9815
110 1,2-Dichlorobenzene	146	9.942	9.942	(1.038)	363170	100.000	94.4	
112 1,2-Dibromo-3-Chloropropane	157	10.628	10.628	(1.110)	36514	100.000	97.9	8943
115 1,2,4-Trichlorobenzene	180	11.272	11.272	(1.177)	144359	100.000	92.1	
114 Hexachlorobutadiene	225	11.248	11.248	(1.175)	83254	100.000	87.9	9701
116 Napthalene	128	11.597	11.597	(1.211)	310268	100.000	95.6	9524
117 1,2,3-Trichlorobenzene	180	11.790	11.790	(1.231)	122535	100.000	92.8	
32 Cyclohexane	56	4.387	4.387	(0.837)	397093	100.000	93.3	9715
18 Methyl Acetate	43	3.346	3.346	(0.638)	261026	100.000	96.0	8462

QC Flag Legend

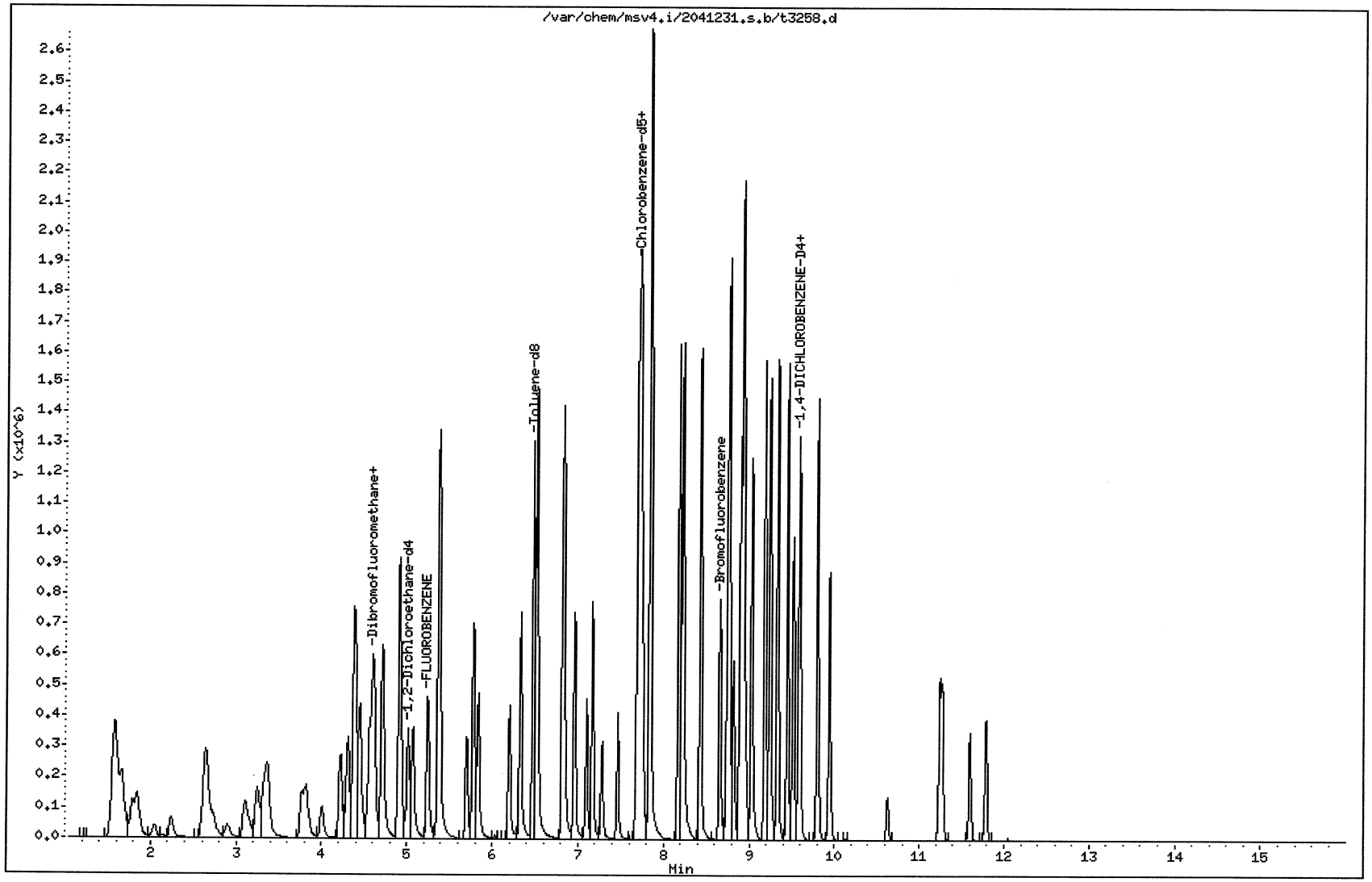
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3258.d
Date : 31-DEC-2004 11:38
Client ID: V4STD100
Sample Info: 1204*V4STD100*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

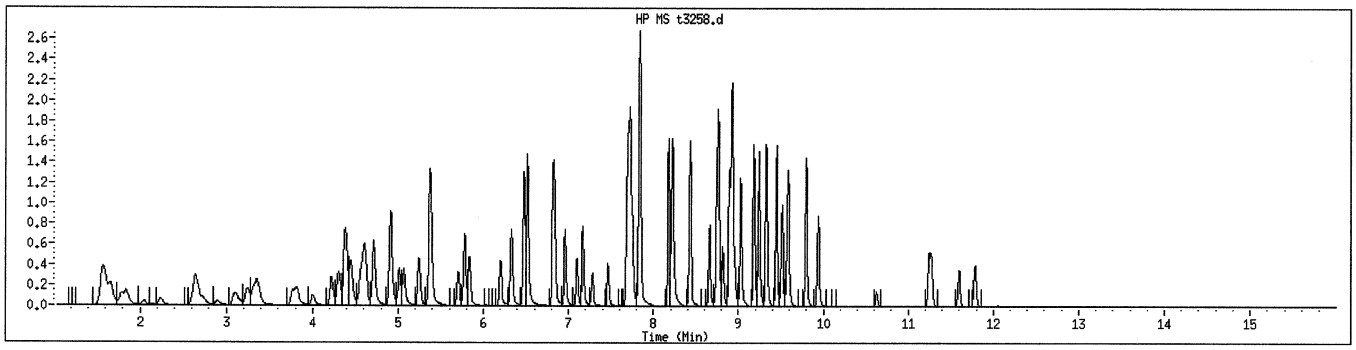


000195

Data file : /var/chem/msv4.i/2041231.s.b/t3258.d
Report Date: 01/04/2005 08:47

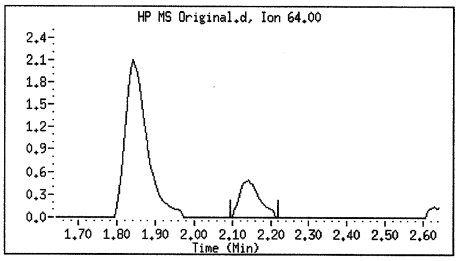
MANUAL INTEGRATION GRAPHIC REPORT

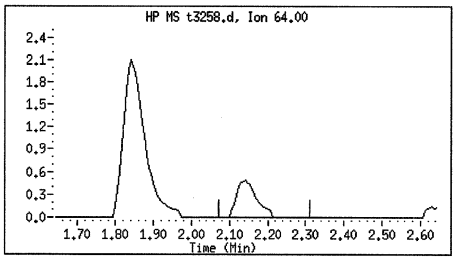
Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 31-DEC-2004 11:38	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 1204*V4STD100*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



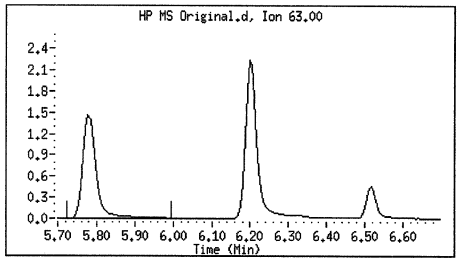
Original | Final

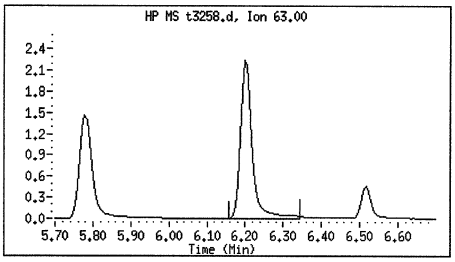
6 Chloroethane CAS#: 75-00-3





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





GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3259.d
Lab Smp Id: 1205 Client Smp ID: V4STD200
Inj Date : 31-DEC-2004 12:00
Operator : MEF Inst ID: msv4.i
Smp Info : 1205*V4STD200*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:48 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.d
Als bottle: 8 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) * CpndVariable

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

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	1.655	1.655	(0.316)	652847	200.000	213	8933(A)
2 Chloromethane ++	50	1.781	1.781	(0.340)	576875	200.000	187	9539
3 Vinyl Chloride +	62	1.842	1.842	(0.351)	526161	200.000	194	8356
5 Bromomethane	94	2.040	2.040	(0.389)	81723	200.000	212	8174(A)
6 Chloroethane	64	2.125	2.125	(0.405)	33240	200.000	182	7909
7 Trichlorofluoromethane	101	2.227	2.227	(0.425)	198735	200.000	157	9220
13 Acrolein	56	2.895	2.895	(0.552)	161213	1000.00	1080	9053(A)
11 1,1,2Trichlotrifluoroethane	101	2.648	2.648	(0.505)	237200	200.000	190	8759
9 1,1-Dichloroethene +	96	2.600	2.600	(0.496)	187573	200.000	185	8537
16 Acetone	43	3.160	3.160	(0.603)	141924	200.000	191	7290
12 Methyl Iodide	142	2.720	2.720	(0.519)	306556	200.000	198	7639
10 Carbon Disulfide	76	2.630	2.630	(0.502)	691408	200.000	173	7134
15 Methylene Chloride	49	3.100	3.100	(0.591)	336809	200.000	200	9117

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	27 Acrylonitrile	53	3.816	3.816	(0.728)	441610	1000.00	930	9034 (A)
	17 trans-1,2-Dichloroethene	61	3.238	3.238	(0.618)	355081	200.000	201	9034 (A)
	20 MTBE	73	3.358	3.358	(0.641)	768830	200.000	204	8909 (A)
	19 Hexane	57	3.316	3.316	(0.633)	421133	200.000	188	9028
	28 Vinyl Acetate	43	4.002	4.002	(0.763)	532436	200.000	202	(A)
	25 1,1-Dichloroethane ++	63	3.762	3.762	(0.718)	503066	200.000	195	9606
	39 2-Butanone	43	4.713	4.713	(0.899)	400425	200.000	196	
M	63 Total 1,2-Dichloroethene	61				914750	400.000	394	0
	29 cis-1,2-Dichloroethene	61	4.219	4.219	(0.805)	559669	200.000	195	9845
	30 2,2-Dichloropropane	77	4.303	4.303	(0.821)	687569	200.000	201	9565 (A)
	31 Bromochloromethane	128	4.382	4.382	(0.836)	243356	200.000	199	9286
	33 Chloroform +	83	4.448	4.448	(0.848)	891000	200.000	191	9512
$	36 Dibromofluoromethane	111	4.592	4.592	(0.876)	461797	200.000	193	7272
	37 1,1,1-Trichloroethane	97	4.610	4.610	(0.879)	699529	200.000	196	8676
	40 1,1-Dichloropropene	75	4.707	4.707	(0.898)	694627	200.000	187	8903
	35 Carbon Tetrachloride	117	4.556	4.556	(0.869)	707222	200.000	211	9627 (A)
$	43 1,2-Dichloroethane-d4	67	5.007	5.007	(0.955)	312350	200.000	206	9571 (A)
	45 1,2-Dichloroethane	62	5.062	5.062	(0.966)	677379	200.000	202	9522 (A)
	42 Benzene	78	4.905	4.905	(0.936)	2306762	200.000	187	9889
*	47 FLUOROBENZENE	96	5.242	5.242	(1.000)	522698	50.0000		9663
	49 Trichloroethene	130	5.381	5.381	(1.026)	531962	200.000	196	9355
	52 1,2-Dichloropropane +	63	5.778	5.778	(1.102)	659104	200.000	196	9613
	57 2-Chloroethyl vinyl ether	63	6.199	6.199	(1.183)	967107	200.000	200	4527 (AMH)
	56 1-Bromo-2-chloroethane	63	6.199	6.199	(1.183)	997188	200.000	204	9273 (A)
	51 Dibromomethane	93	5.700	5.700	(1.087)	358378	200.000	215	9696 (A)
	54 Bromodichloromethane	83	5.832	5.832	(1.113)	736913	200.000	210	9816 (A)
	48 Methyl cyclohexane	83	5.363	5.363	(1.023)	780361	200.000	172	9602
	58 cis-1,3-Dichloropropene	75	6.326	6.326	(1.207)	962979	200.000	198	
	64 4-methyl-2-pentanone	43	6.813	6.813	(1.300)	482358	200.000	143	
$	59 Toluene-d8	98	6.476	6.476	(0.843)	1883309	200.000	207	9649 (A)
	60 Toluene +	91	6.518	6.518	(0.848)	2171929	200.000	196	9784
	67 trans-1,3-Dichloropropene	75	6.837	6.837	(1.304)	744940	200.000	176	
M	74 1-3 Dichloropropene-Total	100				1707919	200.000	188	0
	68 1,1,2-Trichloroethane	97	6.957	6.957	(0.905)	522584	200.000	225	9702 (A)
	72 1,3-Dichloropropane	76	7.168	7.168	(0.933)	946279	200.000	212	9818 (A)
	75 2-Hexanone	43	7.463	7.463	(0.971)	613790	200.000	227	9531 (A)
	66 Tetrachloroethene	164	6.819	6.819	(0.887)	358322	200.000	225	8971 (A)
	71 Dibromochloromethane	129	7.102	7.102	(0.924)	555112	200.000	204	9625 (A)
	73 1,2-Dibromoethane(EDB)	107	7.282	7.282	(0.948)	509356	200.000	237	9401 (A)
*	77 Chlorobenzene-d5	82	7.686	7.686	(1.000)	191293	50.0000		7022
	78 Chlorobenzene ++	112	7.698	7.698	(1.002)	1350692	200.000	203	8144 (A)
	80 1,1,1,2-Tetrachloroethane	133	7.752	7.752	(1.009)	456186	200.000	230	9349 (A)
	79 Ethylbenzene +	91	7.728	7.728	(1.005)	1998507	200.000	174	9589
	81 p,m-Xylene	106	7.830	7.830	(1.019)	1237656	400.000	303	9428 (AH)
	83 o-Xylene	106	8.179	8.179	(1.064)	910219	200.000	219	(A)
	84 Styrene	104	8.221	8.221	(1.070)	1472809	200.000	208	9271 (A)
	85 Bromoform ++	173	8.239	8.239	(1.072)	301570	200.000	256	7414 (A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
87 Isopropylbenzene	105	8.432	8.432	(1.097)	2192237	200.000	211	9537(A)
$ 89 Bromofluorobenzene	174	8.661	8.661	(1.127)	418030	200.000	243	9516(A)
92 1,1,2,2-Tetrachloroethane++	83	8.817	8.817	(0.920)	619870	200.000	185	9586
96 trans-1,4-Dichloro-2-Butene	53	8.962	8.962	(0.935)	185739	200.000	177	9521
95 1,2,3-Trichloropropane	75	8.920	8.920	(0.931)	600085	200.000	151	9118
90 Bromobenzene	77	8.745	8.745	(0.913)	884737	200.000	164	7796
91 n-Propylbenzene	91	8.769	8.769	(0.915)	2331470	200.000	158	8566
93 2-Chlorotoluene	91	8.895	8.895	(0.928)	1605719	200.000	168	9055
94 1,3,5-Trimethylbenzene	105	8.932	8.932	(0.932)	1440108	200.000	153	
97 4-Chlorotoluene	91	9.034	9.034	(0.943)	1472495	200.000	175	9606
M 113 TOTAL XYLENE	106				2147875	600.000	523	0
99 tert-butylbenzene	91	9.184	9.184	(0.959)	936369	200.000	168	9463
100 1,2,4-Trimethylbenzene	105	9.245	9.245	(0.965)	1621351	200.000	178	
102 sec-Butylbenzene	105	9.335	9.335	(0.974)	2243505	200.000	180	
103 p-Isopropyltoluene	119	9.449	9.449	(0.986)	1737520	200.000	184	9516
104 1,3-Dichlorobenzene	146	9.515	9.515	(0.993)	856032	200.000	199	
* 105 1,4-DICHLOROBENZENE-D4	152	9.582	9.582	(1.000)	129686	50.0000		7566
106 1,4-Dichlorobenzene	146	9.594	9.594	(1.001)	879559	200.000	195	
109 n-Butylbenzene	91	9.798	9.798	(1.023)	1649553	200.000	174	9721
110 1,2-Dichlorobenzene	146	9.943	9.943	(1.038)	763466	200.000	198	
112 1,2-Dibromo-3-Chloropropane	157	10.629	10.629	(1.109)	74854	200.000	200	9088
115 1,2,4-Trichlorobenzene	180	11.273	11.273	(1.177)	325417	200.000	207	(A)
114 Hexachlorobutadiene	225	11.249	11.249	(1.174)	209680	200.000	220	9214(A)
116 Napthalene	128	11.598	11.598	(1.210)	649866	200.000	199	9595
117 1,2,3-Trichlorobenzene	180	11.790	11.790	(1.231)	261230	200.000	197	
32 Cyclohexane	56	4.382	4.382	(0.836)	731073	200.000	171	9709
18 Methyl Acetate	43	3.304	3.304	(0.630)	532636	200.000	195	8853

QC Flag Legend

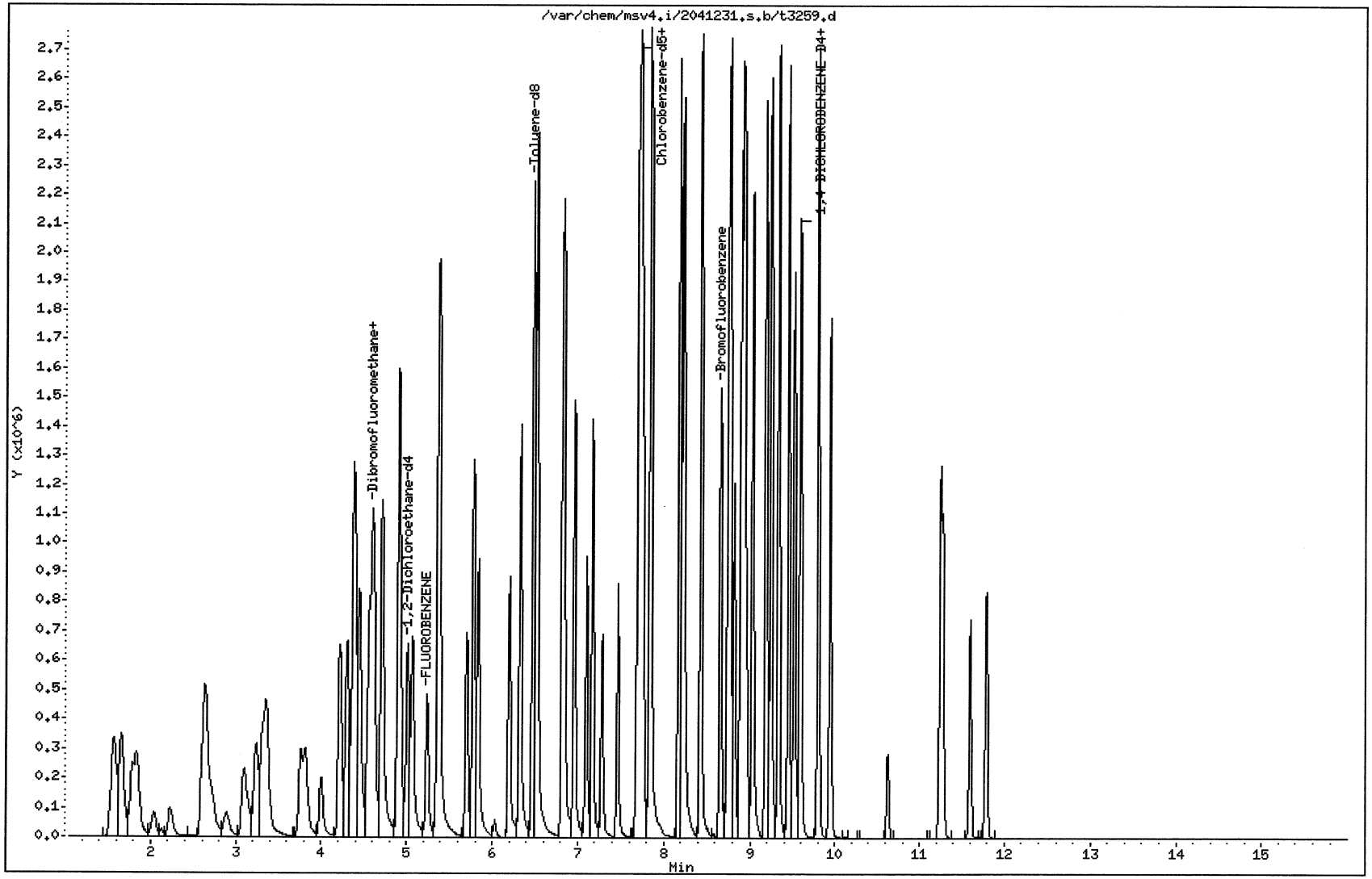
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3259.d
Date : 31-DEC-2004 12:00
Client ID: V4STD200
Sample Info: 1205*V4STD200*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

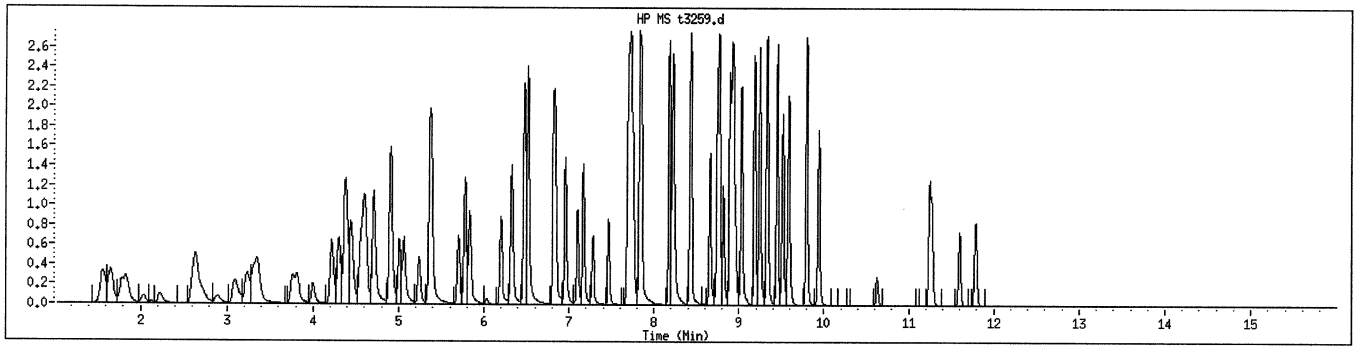
Operator: MEF
Column diameter: 0.53



Data file : /var/chem/msv4.i/2041231.s.b/t3259.d
Report Date: 01/04/2005 08:48

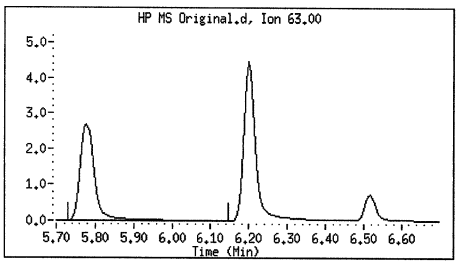
MANUAL INTEGRATION GRAPHIC REPORT

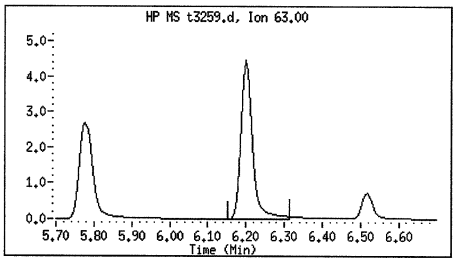
Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 31-DEC-2004 12:00	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 1205*V4STD200*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

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





GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3254.d
Lab Smp Id: 1206 Client Smp ID: V4STD002
Inj Date : 31-DEC-2004 10:10
Operator : RJO Inst ID: msv4.i
Smp Info : 1206*V4STD002*5-21-3
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:47 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 10:10 Cal File: t3254.d
Als bottle: 3 Calibration Sample, Level: 6
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) * CpndVariable

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

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	1.667	1.667	(0.318)	5813	2.00000	1.71	0(M)
2 Chloromethane ++	50	1.811	1.811	(0.345)	13668	2.00000	4.00	2630
3 Vinyl Chloride +	62	1.859	1.859	(0.354)	5766	2.00000	1.92	0(M)
7 Trichlorofluoromethane	101	2.251	2.251	(0.429)	3165	2.00000	2.26	7546
10 Carbon Disulfide	76	2.660	2.660	(0.507)	12708	2.00000	2.86	6290
15 Methylene Chloride	49	3.111	3.111	(0.593)	7812	2.00000	2.13	7155
20 MTBE	73	3.382	3.382	(0.644)	8349	2.00000	2.00	7749
19 Hexane	57	3.334	3.334	(0.635)	6145	2.00000	2.48	7286(a)
28 Vinyl Acetate	43	4.020	4.020	(0.766)	6041	2.00000	2.07	
M 63 Total 1,2-Dichloroethene	61				4429	4.00000	1.72	0
29 cis-1,2-Dichloroethene	61	4.231	4.231	(0.806)	4429	2.00000	1.39	7040
33 Chloroform +	83	4.459	4.459	(0.850)	6778	2.00000	1.31	6895
$ 36 Dibromofluoromethane	111	4.604	4.604	(0.877)	4647	2.00000	1.76	6503

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	37 1,1,1-Trichloroethane	97	4.616	4.616	(0.880)	7359	2.00000	1.86	7003
	40 1,1-Dichloropropene	75	4.724	4.724	(0.900)	7971	2.00000	1.93	4961
$	43 1,2-Dichloroethane-d4	67	5.025	5.025	(0.958)	3158	2.00000	1.87	6695
	42 Benzene	78	4.917	4.917	(0.937)	29623	2.00000	2.16	8747
*	47 FLUOROBENZENE	96	5.248	5.248	(1.000)	579663	50.0000		9677
	49 Trichloroethene	130	5.386	5.386	(1.026)	5600	2.00000	1.86	9079
	52 1,2-Dichloropropane +	63	5.784	5.784	(1.102)	7211	2.00000	1.94	7598
	57 2-Chloroethyl vinyl ether	63	6.211	6.211	(1.183)	9800	2.00000	1.83	4336(M)
	51 Dibromomethane	93	5.705	5.705	(1.087)	2338	2.00000	1.27	5820
	54 Bromodichloromethane	83	5.844	5.844	(1.114)	6648	2.00000	1.71	6642
	48 Methyl cyclohexane	83	5.374	5.374	(1.024)	10321	2.00000	2.05	8480(a)
	58 cis-1,3-Dichloropropene	75	6.337	6.337	(1.208)	9643	2.00000	1.79	
$	59 Toluene-d8	98	6.482	6.482	(0.843)	23872	2.00000	2.18	8921
	60 Toluene +	91	6.524	6.524	(0.848)	28942	2.00000	2.16	8906
M	74 1-3 Dichloropropene-Total	100				9643	2.00000	0.957	0(a)
	68 1,1,2-Trichloroethane	97	6.963	6.963	(0.905)	4516	2.00000	1.62	7461
	72 1,3-Dichloropropane	76	7.174	7.174	(0.933)	9421	2.00000	1.75	7942
	66 Tetrachloroethene	164	6.825	6.825	(0.887)	3372	2.00000	1.76	7898
	71 Dibromochloromethane	129	7.108	7.108	(0.924)	3952	2.00000	8.05	5484
	73 1,2-Dibromoethane(EDB)	107	7.288	7.288	(0.948)	4058	2.00000	1.57	7339
*	77 Chlorobenzene-d5	82	7.691	7.691	(1.000)	230577	50.0000		7775
	78 Chlorobenzene ++	112	7.703	7.703	(1.002)	16396	2.00000	2.04	3232
	80 1,1,1,2-Tetrachloroethane	133	7.758	7.758	(1.009)	3796	2.00000	1.59	5890
	79 Ethylbenzene +	91	7.728	7.728	(1.005)	29766	2.00000	2.15	8689
	81 p,m-Xylene	106	7.842	7.842	(1.020)	20364	4.00000	4.14	9412
	83 o-Xylene	106	8.185	8.185	(1.064)	8740	2.00000	1.74	
	84 Styrene	104	8.227	8.227	(1.070)	13839	2.00000	1.62	6086
	87 Isopropylbenzene	105	8.432	8.432	(1.096)	23921	2.00000	1.91	8891
$	89 Bromofluorobenzene	174	8.666	8.666	(1.127)	5581	2.00000	2.69	7744
	95 1,2,3-Trichloropropane	75	8.931	8.931	(0.932)	7910	2.00000	1.99	8696
	90 Bromobenzene	77	8.751	8.751	(0.913)	11135	2.00000	2.07	7792
	91 n-Propylbenzene	91	8.769	8.769	(0.915)	33296	2.00000	2.25	8412
	93 2-Chlorotoluene	91	8.895	8.895	(0.928)	20714	2.00000	2.17	8035
	94 1,3,5-Trimethylbenzene	105	8.925	8.925	(0.932)	20012	2.00000	2.13	
	97 4-Chlorotoluene	91	9.034	9.034	(0.943)	18364	2.00000	2.18	8257
M	113 TOTAL XYLENE	106				29104	6.00000	5.88	0
	99 tert-butylbenzene	91	9.184	9.184	(0.959)	11764	2.00000	2.11	8605
	100 1,2,4-Trimethylbenzene	105	9.250	9.250	(0.965)	19524	2.00000	2.14	
	102 sec-Butylbenzene	105	9.335	9.335	(0.974)	27446	2.00000	2.20	
	103 p-Isopropyltoluene	119	9.449	9.449	(0.986)	20018	2.00000	2.12	8627
	104 1,3-Dichlorobenzene	146	9.521	9.521	(0.994)	8665	2.00000	2.02	
*	105 1,4-DICHLOROBENZENE-D4	152	9.581	9.581	(1.000)	129684	50.0000		6342
	106 1,4-Dichlorobenzene	146	9.593	9.593	(1.001)	10031	2.00000	2.22	
	109 n-Butylbenzene	91	9.804	9.804	(1.023)	21433	2.00000	2.26	8784
	110 1,2-Dichlorobenzene	146	9.942	9.942	(1.038)	8314	2.00000	2.15	
	116 Napthalene	128	11.610	11.610	(1.212)	6608	2.00000	2.03	5065
	32 Cyclohexane	56	4.399	4.399	(0.838)	5756	2.00000	1.21	6754(a)

QC Flag Legend

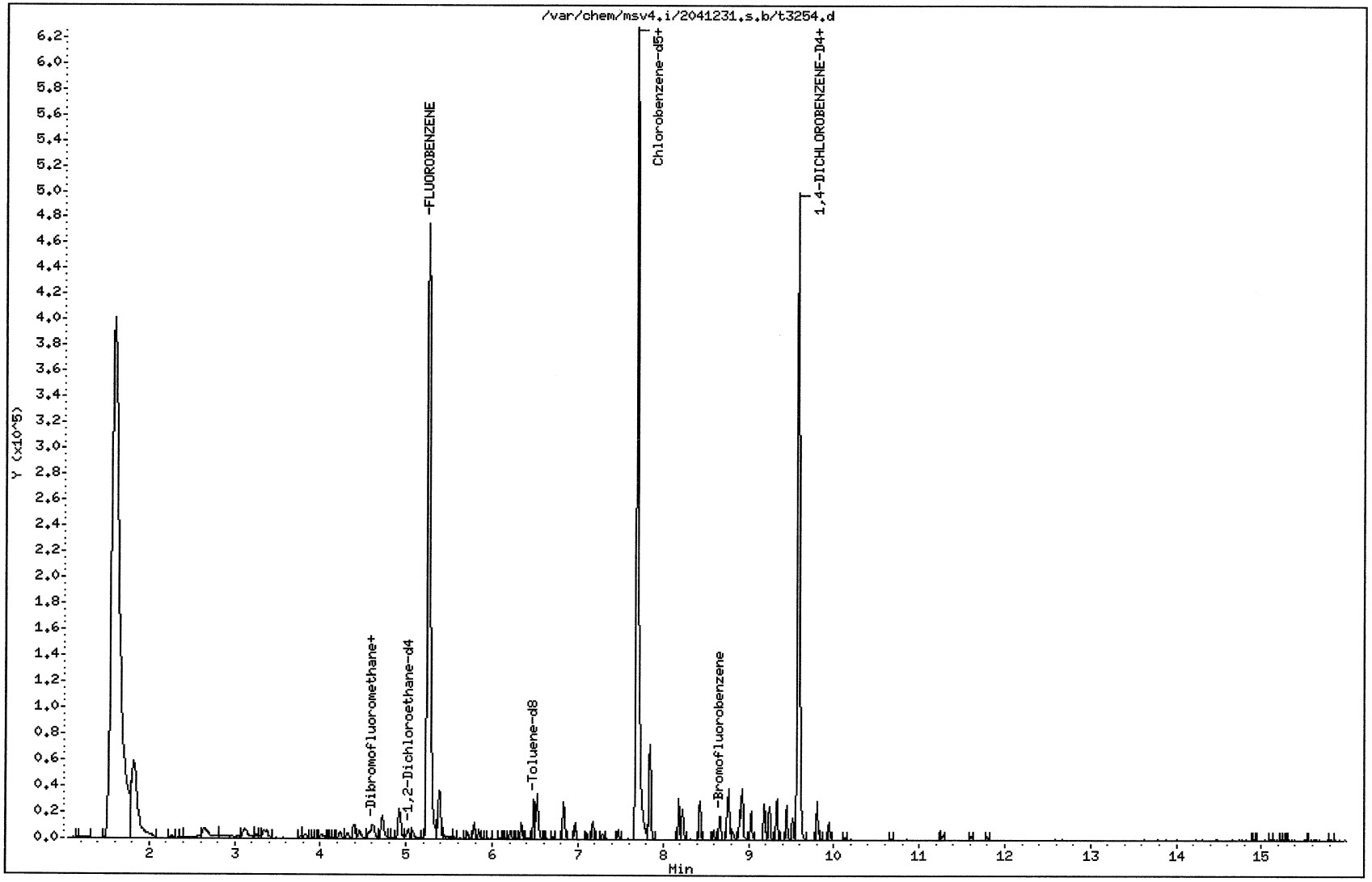
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: /var/chem/msv4.i/2041231.s.b/t3254.d
Date : 31-DEC-2004 10:10
Client ID: V4STD002
Sample Info: 1206*V4STD002*5-21-3

Column phase: DB-624-30M

Instrument: msv4.i

Operator: RJO
Column diameter: 0.53

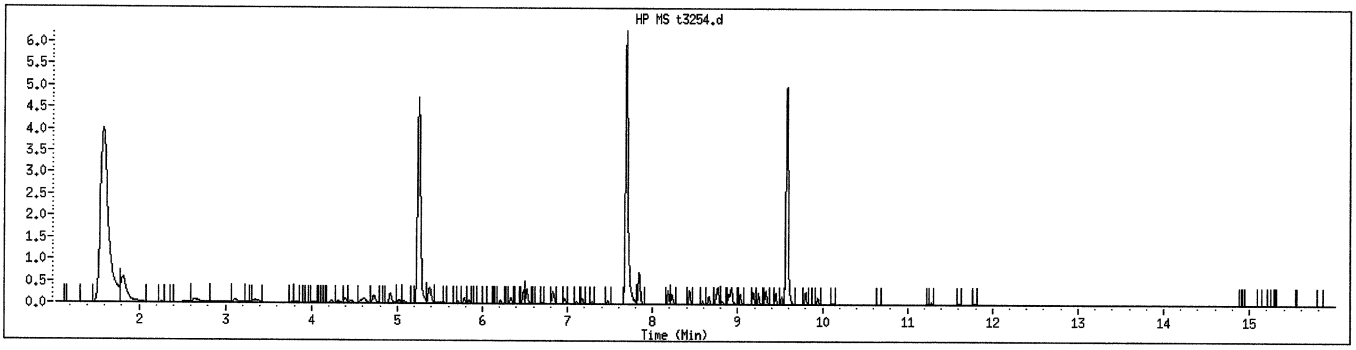


000205

Data file : /var/chem/msv4.i/2041231.s.b/t3254.d
Report Date: 01/04/2005 08:47

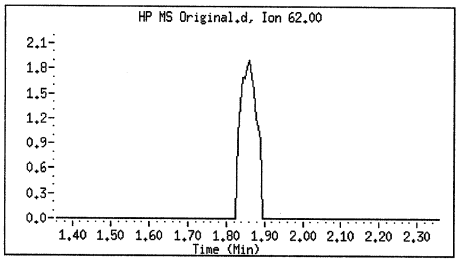
MANUAL INTEGRATION GRAPHIC REPORT

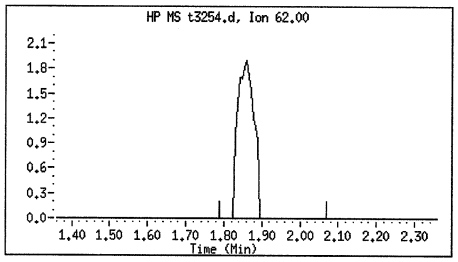
Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 31-DEC-2004 10:10	Instrument	: msv4.i
Operator	: RJO		
Sample Info	: 1206*V4STD002*5-21-3		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



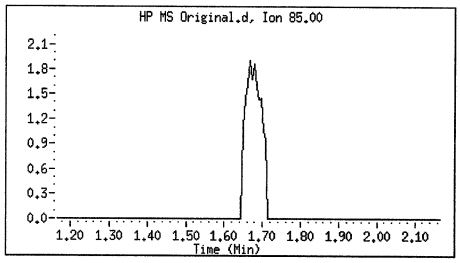
Original | Final

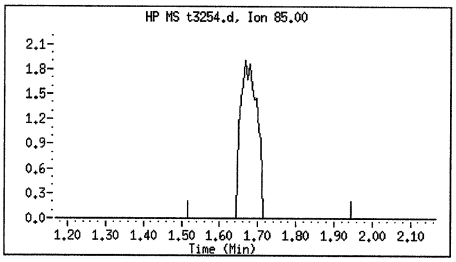
3 Vinyl Chloride + CAS#: 75-01-4





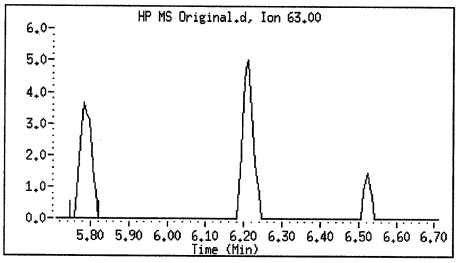
1 Dichlorodifluoromethane CAS#: 75-71-8

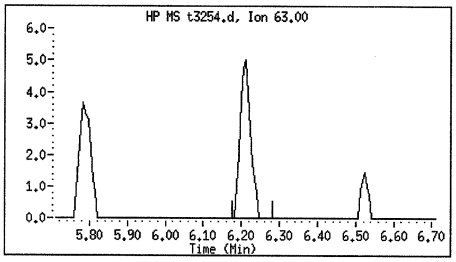




Original | Final

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





Data file : /var/chem/msv4.i/2041231.s.b/t3261.d
Report Date: 01/11/2005 10:07

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: 1600
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-ICV.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Misc Info: MSV~5645~*1*MEF

Client SDG: 2041231.s
Fraction: VOA
Client Smp ID: V4ICV
Operator: MEF
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1 Dichlorodifluoromethane	50.0	46.7	93.46	80-120
2 Chloromethane ++	50.0	45.7	91.47	80-120
3 Vinyl Chloride +	50.0	45.8	91.52	80-120
5 Bromomethane	50.0	60.0	120.01*	80-120
6 Chloroethane	50.0	0.00	0.00	80-120
7 Trichlorofluoromethane	50.0	59.5	119.03	80-120
9 1,1-Dichloroethene +	50.0	52.4	104.82	80-120
10 Carbon Disulfide	50.0	51.0	101.94	80-120
11 1,1,2Trichlotrifluoroethane	50.0	51.2	102.46	80-120
12 Methyl Iodide	50.0	46.0	92.04	80-120
13 Acrolein	250	247	98.72	80-120
15 Methylene Chloride	50.0	49.2	98.41	80-120
16 Acetone	50.0	47.0	93.99	80-120
17 trans-1,2-Dichloroethene	50.0	49.0	98.00	80-120
18 Methyl Acetate	50.0	49.8	99.69	80-120
19 Hexane	50.0	48.7	97.44	80-120
20 MTBE	50.0	52.6	105.12	80-120
25 1,1-Dichloroethane ++	50.0	47.9	95.84	80-120
27 Acrylonitrile	250	258	103.12	80-120
28 Vinyl Acetate	50.0	47.7	95.45	80-120
29 cis-1,2-Dichloroethene	50.0	51.2	102.43	80-120
30 2,2-Dichloropropane	50.0	50.1	100.23	80-120
31 Bromochloromethane	50.0	56.2	112.46	80-120
32 Cyclohexane	50.0	53.8	107.66	80-120
33 Chloroform +	50.0	54.9	109.82	80-120
35 Carbon Tetrachloride	50.0	49.8	99.51	80-120
37 1,1,1-Trichloroethane	50.0	52.2	104.38	80-120
39 2-Butanone	50.0	53.1	106.25	80-120
40 1,1-Dichloropropene	50.0	49.7	99.41	80-120
42 Benzene	50.0	48.3	96.67	80-120

Data file : /var/chem/msv4.i/2041231.s.b/t3261.d
Report Date: 01/11/2005 10:07

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	45	1,2-Dichloroethane	50.0	53.9	107.79	80-120
	48	Methyl cyclohexane	50.0	49.7	99.50	80-120
	49	Trichloroethene	50.0	51.1	102.22	80-120
	51	Dibromomethane	50.0	56.0	112.04	80-120
	52	1,2-Dichloropropane +	50.0	50.3	100.51	80-120
	54	Bromodichloromethane	50.0	53.0	106.05	80-120
	57	2-Chloroethyl vinyl ether	50.0	51.0	102.00	80-120
	58	cis-1,3-Dichloropropene	50.0	51.8	103.53	80-120
	60	Toluene +	50.0	44.3	88.51	80-120
M	63	Total 1,2-Dichloroethene	100	111	111.31	80-120
	64	4-methyl-2-pentanone	50.0	55.7	111.32	80-120
	66	Tetrachloroethene	50.0	44.6	89.18	80-120
	67	trans-1,3-Dichloropropene	50.0	55.0	109.99	80-120
	68	1,1,2-Trichloroethane	50.0	46.7	93.35	80-120
	71	Dibromochloromethane	50.0	42.7	85.32	80-120
	72	1,3-Dichloropropane	50.0	46.7	93.31	80-120
	73	1,2-Dibromoethane(EDB)	50.0	47.2	94.38	80-120
	75	2-Hexanone	50.0	46.3	92.64	80-120
	78	Chlorobenzene ++	50.0	44.9	89.72	80-120
	79	Ethylbenzene +	50.0	44.9	89.73	80-120
	80	1,1,1,2-Tetrachloroethane	50.0	47.7	95.47	80-120
	81	p,m-Xylene	100	96.9	96.88	80-120
	83	o-Xylene	50.0	44.3	88.64	80-120
	84	Styrene	50.0	46.8	93.57	80-120
	85	Bromoform ++	50.0	47.9	95.72	80-120
	87	Isopropylbenzene	50.0	44.3	88.59	80-120
	90	Bromobenzene	50.0	50.4	100.90	80-120
	91	n-Propylbenzene	50.0	47.8	95.50	80-120
	92	1,1,2,2-Tetrachloroethane++	50.0	49.9	99.89	80-120
	93	2-Chlorotoluene	50.0	48.2	96.46	80-120
	94	1,3,5-Trimethylbenzene	50.0	51.8	103.53	80-120
	95	1,2,3-Trichloropropane	50.0	54.0	108.05	80-120
	96	trans-1,4-Dichloro-2-Butene	50.0	57.4	114.82	80-120
	97	4-Chlorotoluene	50.0	47.0	93.95	80-120
	99	tert-butylbenzene	50.0	50.2	100.43	80-120
	100	1,2,4-Trimethylbenzene	50.0	49.7	99.45	80-120
	102	sec-Butylbenzene	50.0	47.8	95.64	80-120
	103	p-Isopropyltoluene	50.0	48.0	95.96	80-120
	104	1,3-Dichlorobenzene	50.0	46.2	92.50	80-120
	106	1,4-Dichlorobenzene	50.0	47.7	95.42	80-120
	109	n-Butylbenzene	50.0	46.8	93.60	80-120
	110	1,2-Dichlorobenzene	50.0	48.7	97.33	80-120
	112	1,2-Dibromo-3-Chloropropane	50.0	58.9	117.77	80-120
M	113	TOTAL XYLENE	150	141	94.15	80-120
	114	Hexachlorobutadiene	50.0	52.4	104.88	80-120
	115	1,2,4-Trichlorobenzene	50.0	52.0	103.99	80-120

Data file : /var/chem/msv4.i/2041231.s.b/t3261.d
Report Date: 01/11/2005 10:07

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
117 1,2,3-Trichlorobenzene	50.0	57.4	114.81	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 36 Dibromofluoromethane	50.0	53.2	106.41	70-130
$ 43 1,2-Dichloroethane-d4	50.0	53.4	106.86	60-140
$ 59 Toluene-d8	50.0	43.3	86.60	65-128
$ 89 Bromofluorobenzene	50.0	39.6	79.12	73-138

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3261.d
Lab Smp Id: 1600 Client Smp ID: V4ICV
Inj Date : 31-DEC-2004 12:44
Operator : MEF Inst ID: msv4.i
Smp Info : 1600*V4ICV
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 06-Jan-2005 13:45 rsp Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.d
Als bottle: 10 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.662	1.655	(0.317)	139477	46.7323	46.7	5961
2 Chloromethane ++	50	1.794	1.781	(0.342)	136913	45.7325	45.7	8547
3 Vinyl Chloride +	62	1.842	1.842	(0.351)	119767	45.7619	45.8	7783
5 Bromomethane	94	2.053	2.040	(0.391)	22493	60.0055	60.0	8301(R)
7 Trichlorofluoromethane	101	2.245	2.227	(0.428)	73078	59.5135	59.5	9252
13 Acrolein	56	2.907	2.895	(0.554)	38429	246.792	247	8740(A)
11 1,1,2Trichlotrifluoroethane	101	2.661	2.648	(0.507)	62153	51.2320	51.2	8737
9 1,1-Dichloroethene +	96	2.625	2.600	(0.500)	51671	52.4095	52.4	8359
16 Acetone	43	3.166	3.160	(0.603)	33858	46.9967	47.0	7396
12 Methyl Iodide	142	2.727	2.720	(0.520)	65102	46.0193	46.0	6854
10 Carbon Disulfide	76	2.643	2.630	(0.503)	198203	50.9701	51.0	7653
15 Methylene Chloride	49	3.100	3.100	(0.591)	83182	49.2027	49.2	9062
27 Acrylonitrile	53	3.816	3.816	(0.727)	118951	257.801	258	8991(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	17 trans-1,2-Dichloroethene	61	3.244	3.238	(0.618)	84142	49.0005	49.0	9047
	20 MTBE	73	3.365	3.358	(0.641)	192672	52.5608	52.6	8821
	19 Hexane	57	3.329	3.316	(0.634)	105929	48.7200	48.7	9023
	28 Vinyl Acetate	43	4.003	4.002	(0.763)	122117	47.7251	47.7	
	25 1,1-Dichloroethane ++	63	3.768	3.762	(0.718)	120399	47.9177	47.9	9387
	39 2-Butanone	43	4.713	4.713	(0.898)	121823	53.1271	53.1	
M	63 Total 1,2-Dichloroethene	61				227187	111.313	111	0
	29 cis-1,2-Dichloroethene	61	4.219	4.219	(0.804)	143045	51.2147	51.2	9776
	30 2,2-Dichloropropane	77	4.310	4.303	(0.821)	166628	50.1141	50.1	9501
	31 Bromochloromethane	128	4.382	4.382	(0.835)	66842	56.2324	56.2	9462
	33 Chloroform +	83	4.454	4.448	(0.849)	234967	54.9090	54.9	9512
$	36 Dibromofluoromethane	111	4.599	4.592	(0.876)	120940	53.2063	53.2	7246
	37 1,1,1-Trichloroethane	97	4.617	4.610	(0.880)	179070	52.1910	52.2	8966
	40 1,1-Dichloropropene	75	4.713	4.707	(0.898)	178781	49.7065	49.7	8550
	35 Carbon Tetrachloride	117	4.562	4.556	(0.869)	161835	49.7571	49.8	9506
$	43 1,2-Dichloroethane-d4	67	5.014	5.007	(0.955)	78051	53.4281	53.4	9471
	45 1,2-Dichloroethane	62	5.068	5.062	(0.966)	175817	53.8953	53.9	9535
	42 Benzene	78	4.912	4.905	(0.936)	588387	48.3371	48.3	9807
*	47 FLUOROBENZENE	96	5.249	5.242	(1.000)	507980	50.0000		9744
	49 Trichloroethene	130	5.381	5.381	(1.025)	133264	51.1105	51.1	9764
	52 1,2-Dichloropropane +	63	5.778	5.778	(1.101)	163004	50.2568	50.3	9645
	57 2-Chloroethyl vinyl ether	63	6.206	6.199	(1.182)	235755	51.0005	51.0	4423(MH)
	56 1-Bromo-2-chloroethane	63	6.206	6.199	(1.182)	239510	50.5270	50.5	9231
	51 Dibromomethane	93	5.700	5.700	(1.086)	85043	56.0193	56.0	9346
	54 Bromodichloromethane	83	5.838	5.832	(1.112)	176497	53.0244	53.0	9715
	48 Methyl cyclohexane	83	5.369	5.363	(1.023)	220538	49.7478	49.7	9425
	58 cis-1,3-Dichloropropene	75	6.332	6.326	(1.206)	239830	51.7625	51.8	
	64 4-methyl-2-pentanone	43	6.813	6.813	(1.298)	182090	55.6582	55.7	
$	59 Toluene-d8	98	6.476	6.476	(0.843)	447098	43.3022	43.3	9838
	60 Toluene +	91	6.519	6.518	(0.848)	556442	44.2564	44.3	9792
	67 trans-1,3-Dichloropropene	75	6.838	6.837	(1.303)	226462	54.9944	55.0	
M	74 1-3 Dichloropropene-Total	100				466292	57.8177	57.8	0
	68 1,1,2-Trichloroethane	97	6.958	6.957	(0.905)	117132	46.6760	46.7	9855
	72 1,3-Dichloropropane	76	7.169	7.168	(0.933)	227850	46.6564	46.7	9453
	75 2-Hexanone	43	7.469	7.463	(0.972)	139942	46.3193	46.3	9494
	66 Tetrachloroethene	164	6.819	6.819	(0.887)	77770	44.5877	44.6	8457
	71 Dibromochloromethane	129	7.102	7.102	(0.924)	116627	42.6624	42.7	9515
	73 1,2-Dibromoethane(EDB)	107	7.283	7.282	(0.948)	109303	47.1914	47.2	9450
*	77 Chlorobenzene-d5	82	7.686	7.686	(1.000)	213870	50.0000		9561
	78 Chlorobenzene ++	112	7.704	7.698	(1.002)	335241	44.8599	44.9	9166
	80 1,1,1,2-Tetrachloroethane	133	7.752	7.752	(1.009)	102182	47.7349	47.7	9305
	79 Ethylbenzene +	91	7.722	7.728	(1.005)	584478	44.8673	44.9	9482
	81 p,m-Xylene	106	7.843	7.830	(1.020)	444784	96.8835	96.9	9637(H)
	83 o-Xylene	106	8.180	8.179	(1.064)	201751	44.3209	44.3	
	84 Styrene	104	8.222	8.221	(1.070)	358799	46.7856	46.8	9734
	85 Bromoform ++	173	8.240	8.239	(1.072)	63126	47.8599	47.9	7147
	87 Isopropylbenzene	105	8.432	8.432	(1.097)	509805	44.2971	44.3	9801

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
$ 89 Bromofluorobenzene	174	8.661	8.661	(1.127)	80479	39.5576	39.6	9237
92 1,1,2,2-Tetrachloroethane++	83	8.818	8.817	(0.921)	148225	49.9435	49.9	9628
96 trans-1,4-Dichloro-2-Butene	53	8.956	8.962	(0.935)	53222	57.4093	57.4	9008
95 1,2,3-Trichloropropane	75	8.926	8.920	(0.932)	190168	54.0256	54.0	9412
90 Bromobenzene	77	8.745	8.745	(0.913)	242082	50.4487	50.4	8029
91 n-Propylbenzene	91	8.763	8.769	(0.915)	638020	47.7508	47.8	9276
93 2-Chlorotoluene	91	8.896	8.895	(0.929)	413436	48.2288	48.2	9448
94 1,3,5-Trimethylbenzene	105	8.926	8.932	(0.932)	435278	51.7628	51.8	
97 4-Chlorotoluene	91	9.028	9.034	(0.943)	356217	46.9774	47.0	9616
M 113 TOTAL XYLENE	106				646535	141.228	141	0
99 tert-butylbenzene	91	9.185	9.184	(0.959)	250436	50.2129	50.2	9660
100 1,2,4-Trimethylbenzene	105	9.245	9.245	(0.965)	406203	49.7263	49.7	
102 sec-Butylbenzene	105	9.335	9.335	(0.975)	536906	47.8217	47.8	
103 p-Isopropyltoluene	119	9.450	9.449	(0.987)	405714	47.9797	48.0	9799
104 1,3-Dichlorobenzene	146	9.516	9.515	(0.994)	176074	46.2500	46.2	
* 105 1,4-DICHLOROBENZENE-D4	152	9.576	9.582	(1.000)	114869	50.0000		8759
106 1,4-Dichlorobenzene	146	9.588	9.594	(1.001)	194440	47.7122	47.7	
109 n-Butylbenzene	91	9.799	9.798	(1.023)	401851	46.7982	46.8	9721
110 1,2-Dichlorobenzene	146	9.943	9.943	(1.038)	168649	48.6662	48.7	
112 1,2-Dibromo-3-Chloropropane	157	10.629	10.629	(1.110)	19553	58.8832	58.9	8801
115 1,2,4-Trichlorobenzene	180	11.279	11.273	(1.178)	72529	51.9943	52.0	
114 Hexachlorobutadiene	225	11.249	11.249	(1.175)	44190	52.4392	52.4	9694
116 Napthalene	128	11.604	11.598	(1.212)	177551	61.3234	61.3	9551
117 1,2,3-Trichlorobenzene	180	11.791	11.790	(1.231)	67486	57.4072	57.4	
32 Cyclohexane	56	4.388	4.382	(0.836)	209072	53.8318	53.8	9610
18 Methyl Acetate	43	3.347	3.304	(0.638)	132340	49.8450	49.8	8405

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

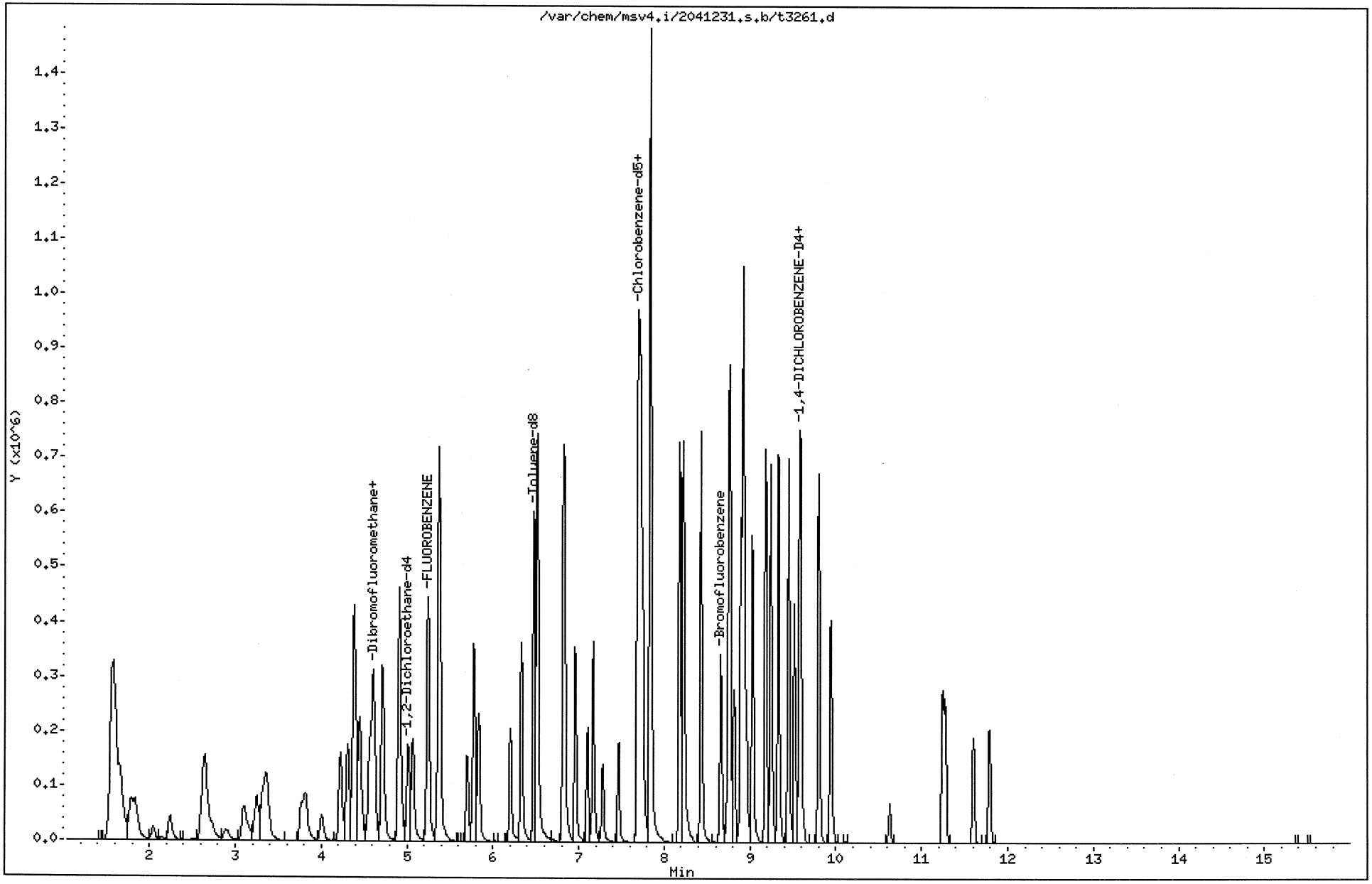
Data File: /var/chem/msv4.i/2041231.s.b/t3261.d
Date : 31-DEC-2004 12:44
Client ID: V4ICV
Sample Info: 1600*V4ICV

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

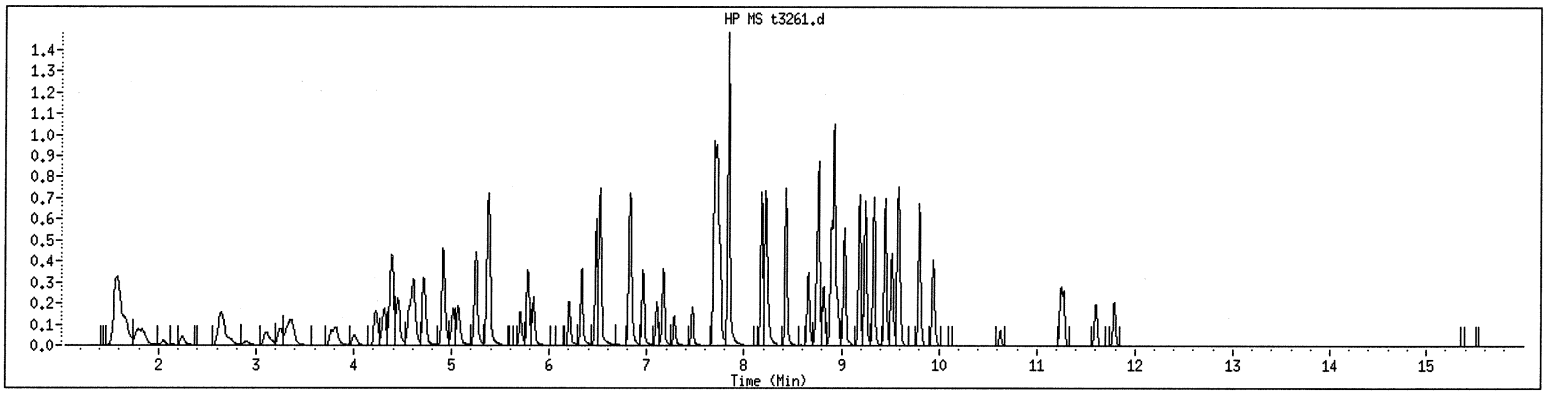
000214



Data file : /var/chem/msv4.i/2041231.s.b/t3261.d
Report Date: 01/11/2005 10:07

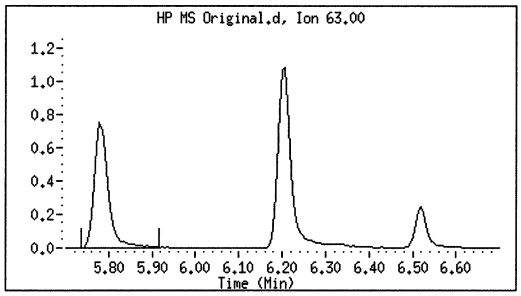
MANUAL INTEGRATION GRAPHIC REPORT

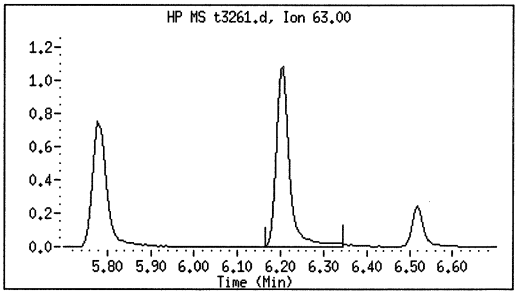
Lab ID	: 1600	SampleType	: LCS
Injection Date	: 31-DEC-2004 12:44	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 1600*V4ICV		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



Original Final

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





1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB214615

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 214615

Level: (low/med) LOW Lab File ID: 2041229/T8784

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 12/29/04 Time: 1105

Soil Extract Volume: (µL) Dilution Factor: 50 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285454

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	250	U	30.3	250

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8784.d
Lab Smp Id: 214615 Client Smp ID: MB FOR HBN 285454
Inj Date : 29-DEC-2004 11:05
Operator : KCB Inst ID: msv0.i
Smp Info : 214615*MB FOR HBN 285454
Misc Info : MSV~5636~*50*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/8260Bw0.m
Meth Date : 29-Dec-2004 11:52 kcb Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 7 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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

Name	Value	Description
DF	50.00000	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	

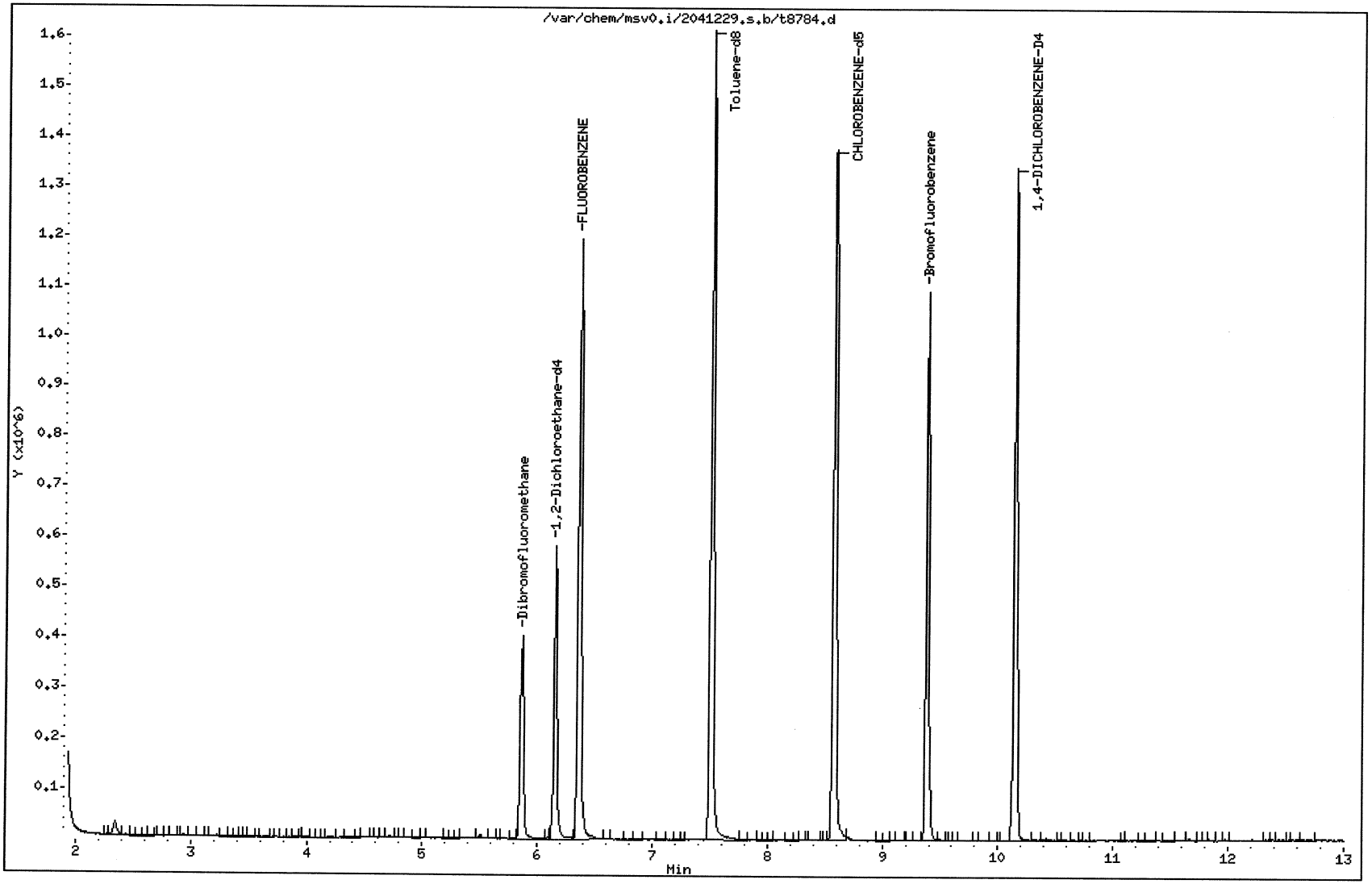
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
13 Methyl Iodide	142	3.972	3.966	(0.624)	2667	1.71952	86.0	
32 2-Butanone	43	5.506	5.507	(0.865)	10289	2.13505	107	
$ 36 Dibromofluoromethane	111	5.863	5.864	(0.921)	241892	57.2394	2860	488
$ 43 1,2-Dichloroethane-d4	67	6.154	6.154	(0.967)	191548	56.6217	2830	
* 47 FLUOROBENZENE	96	6.365	6.366	(1.000)	896817	50.0000		
$ 60 Toluene-d8	98	7.509	7.510	(0.876)	888680	50.4113	2520	
* 71 CHLOROBENZENE-d5	82	8.573	8.574	(1.000)	469756	50.0000		
$ 80 Bromofluorobenzene	174	9.380	9.380	(1.094)	234227	45.8549	2290	
* 97 1,4-DICHLOROBENZENE-D4	152	10.140	10.140	(1.000)	319772	50.0000		
110 Naphthalene	128	11.674	11.674	(1.151)	3686	5.69289	285	

Data File: /var/chem/msv0.i/2041229.s.b/t8784.d
Date : 29-DEC-2004 11:05
Client ID: MB FOR HBN 285454
Sample Info: 214615*MB FOR HBN 285454
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53



000218

Data File: /var/chem/msv0.i/2041229.s.b/t8784.d

Date : 29-DEC-2004 11:05

Client ID: MB FOR HBN 285454

Instrument: msv0.i

Sample Info: 214615*MB FOR HBN 285454

Purge Volume: 5.0

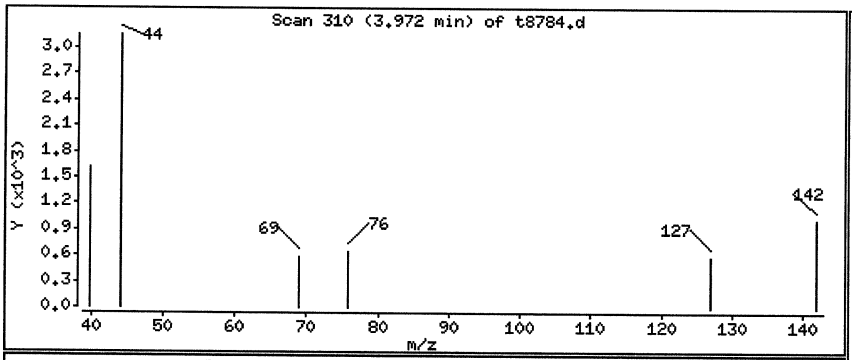
Operator: KCB

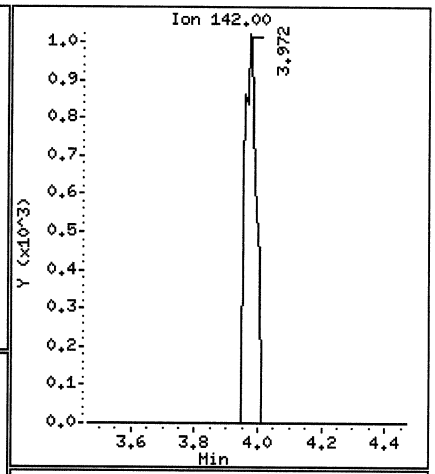
Column phase: DB-624-30M

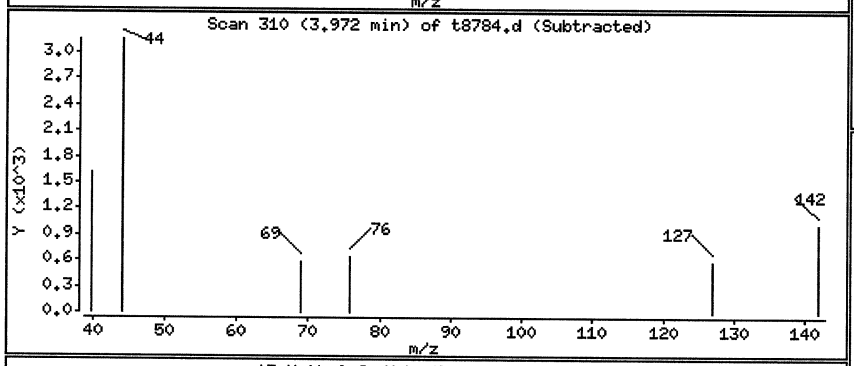
Column diameter: 0.53

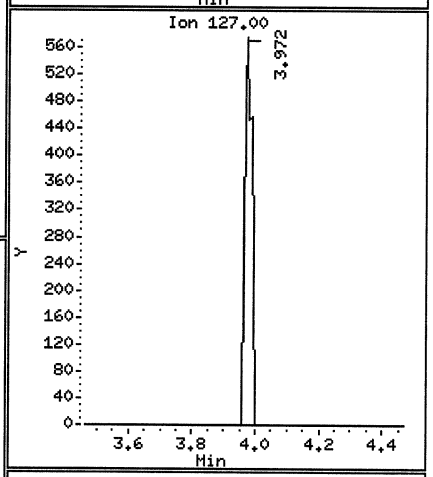
13 Methyl Iodide

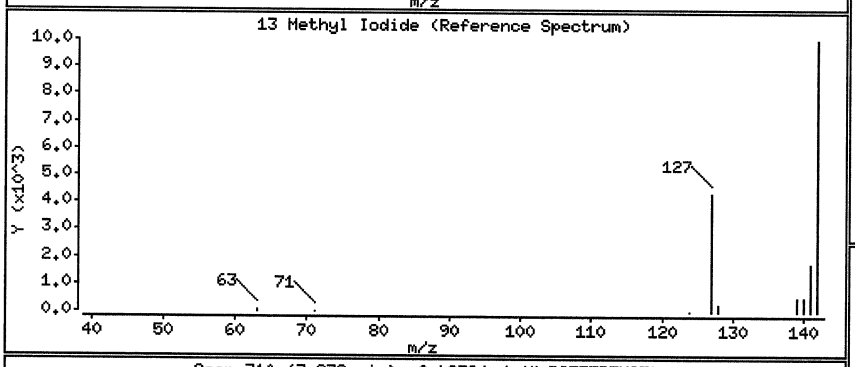
Concentration: 86.0 UG/KG

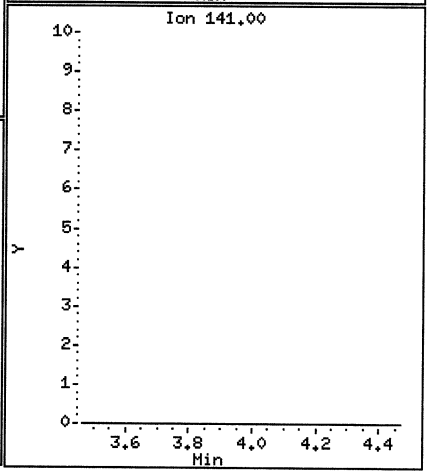


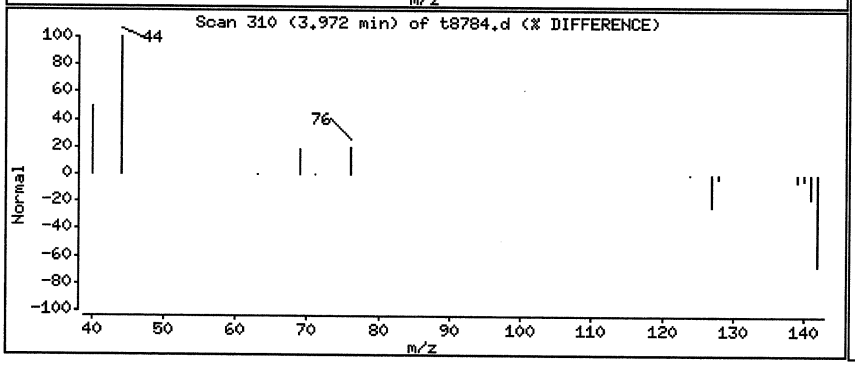












Data File: /var/chem/msv0.i/2041229.s.b/t8784.d

Date : 29-DEC-2004 11:05

Client ID: MB FOR HBN 285454

Instrument: msv0.i

Sample Info: 214615*MB FOR HBN 285454

Purge Volume: 5.0

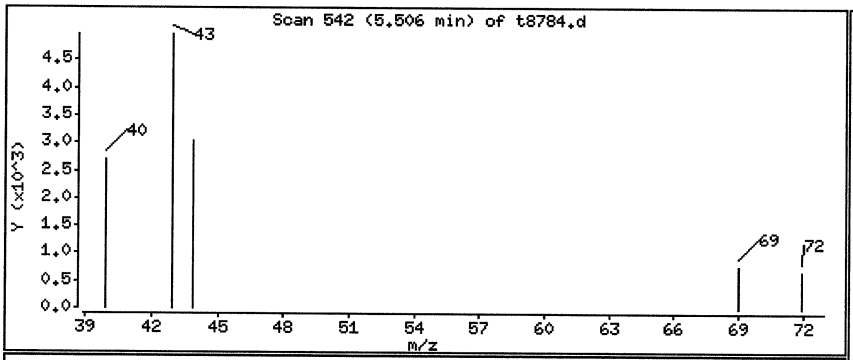
Operator: KCB

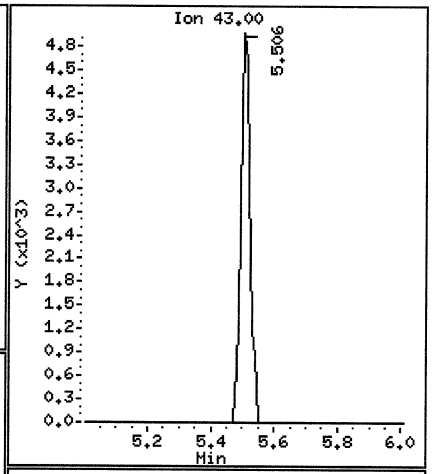
Column phase: DB-624-30M

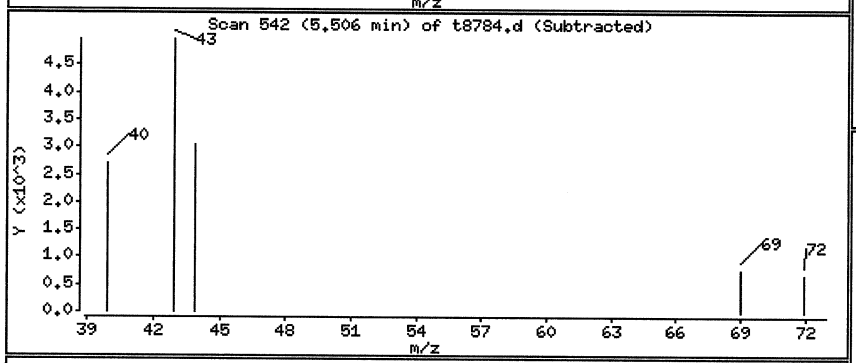
Column diameter: 0.53

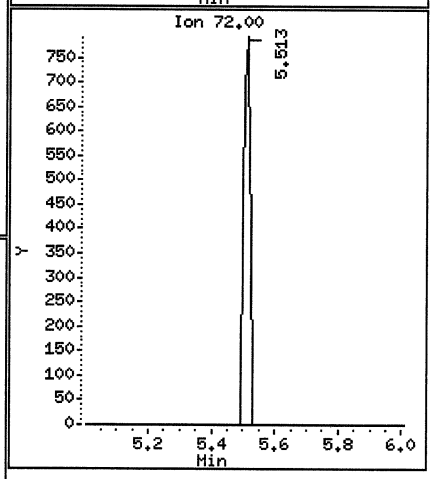
32 2-Butanone

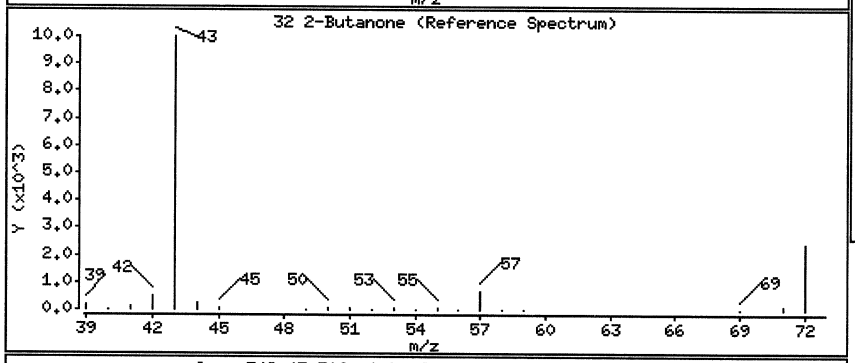
Concentration: 107 UG/KG

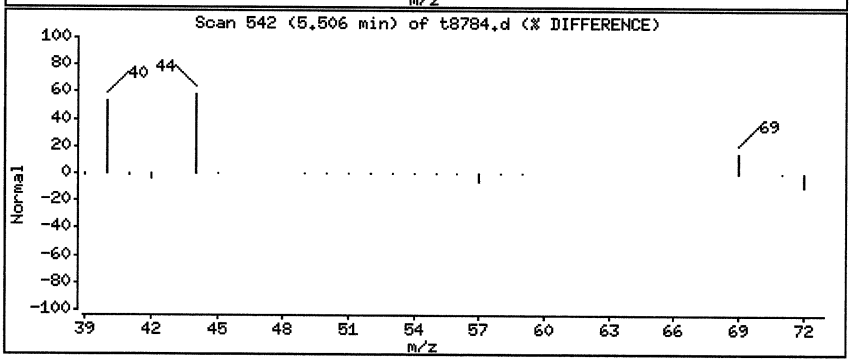












Data File: /var/chem/msv0.i/2041229.s.b/t8784.d

Date : 29-DEC-2004 11:05

Client ID: MB FOR HBN 285454

Instrument: msv0.i

Sample Info: 214615*MB FOR HBN 285454

Purge Volume: 5.0

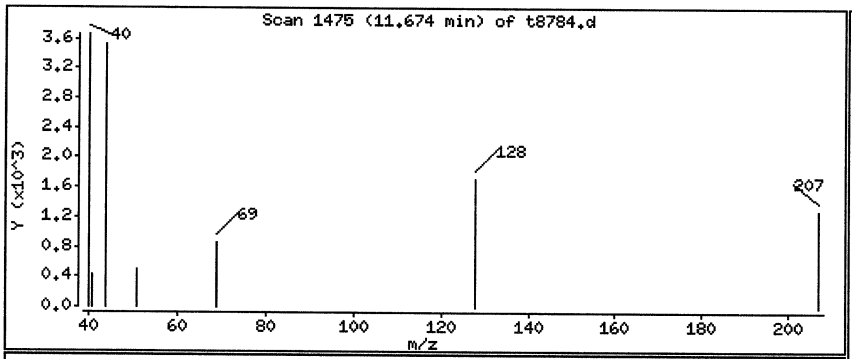
Operator: KCB

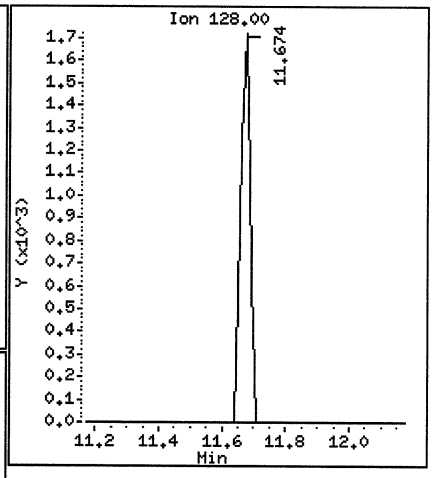
Column phase: DB-624-30M

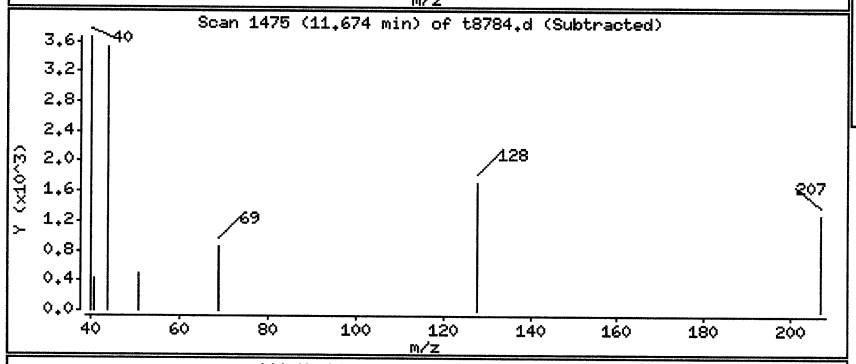
Column diameter: 0.53

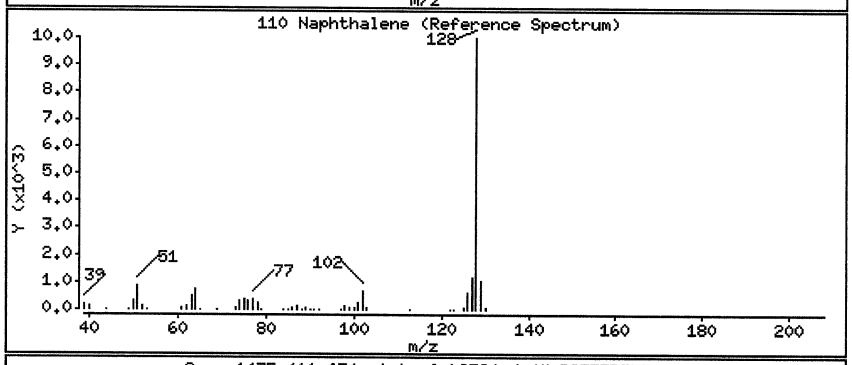
110 Naphthalene

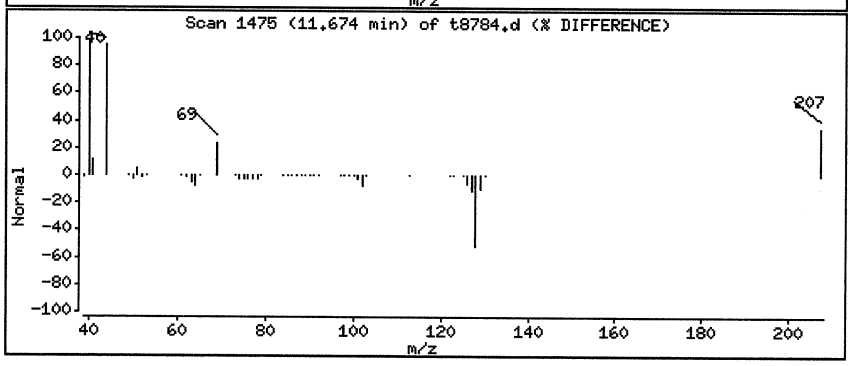
Concentration: 285 UG/KG







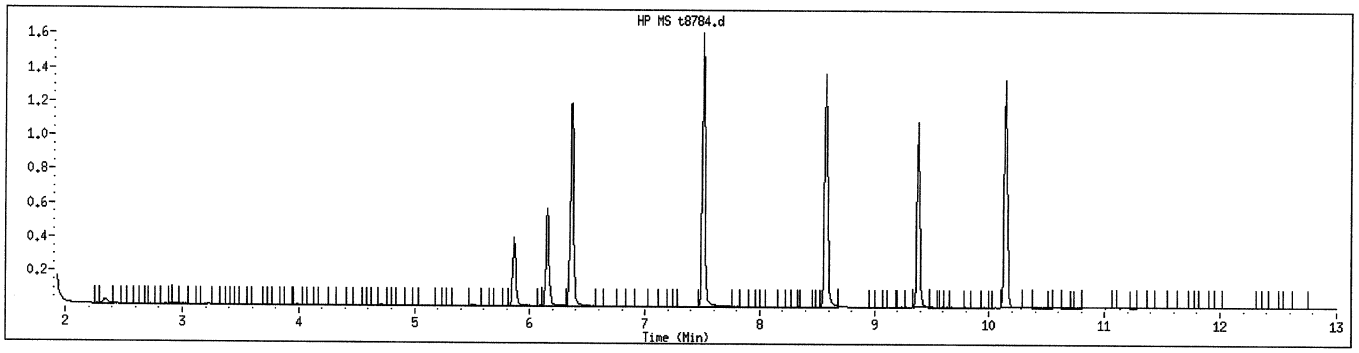




Data file : /var/chem/msv0.i/2041229.s.b/t8784.d
Report Date: 12/29/2004 11:54

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 214615	SampleType	: BLANK
Injection Date	: 29-DEC-2004 11:05	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 214615*MB FOR HBN 285454		
Misc Info	: MSV~5636~*50*KCB		
Method	: /var/chem/msv0.i/2041229.s.b/8260Bw0.m		
Dilution	: 50.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB215153

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215153

Level: (low/med) LOW Lab File ID: 2041231/T3265

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1457

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	5.00	U	0.606	5.00
71-55-6	1,1,1-Trichloroethane	5.00	U	0.123	5.00
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	0.180	5.00
79-00-5	1,1,2-Trichloroethane	5.00	U	0.114	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.159	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.359	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.327	5.00
96-12-8	1,2-Dibromo-3-chloropropane	5.00	U	0.866	5.00
106-93-4	1,2-Dibromoethane	5.00	U	0.150	5.00
95-50-1	1,2-Dichlorobenzene	5.00	U	0.114	5.00
107-06-2	1,2-Dichloroethane	5.00	U	0.114	5.00
78-87-5	1,2-Dichloropropane	5.00	U	0.112	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.236	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.421	5.00
78-93-3	2-Butanone	5.00	U	0.312	5.00
591-78-6	2-Hexanone	5.00	U	0.826	5.00
108-10-1	4-Methyl-2-pentanone	5.00	U	0.173	5.00
67-64-1	Acetone	25.0	U	0.374	25.0
71-43-2	Benzene	5.00	U	0.104	5.00
75-27-4	Bromodichloromethane	5.00	U	0.135	5.00
75-25-2	Bromoform	5.00	U	0.169	5.00
74-83-9	Bromomethane	5.00	U	1.51	5.00
75-15-0	Carbon disulfide	5.00	U	0.109	5.00
56-23-5	Carbon tetrachloride	5.00	U	0.120	5.00
108-90-7	Chlorobenzene	5.00	U	0.165	5.00
67-66-3	Chloroform	5.00	U	0.141	5.00
74-87-3	Chloromethane	5.00	U	0.464	5.00
110-82-7	Cyclohexane	5.00	U	1.11	5.00
124-48-1	Dibromochloromethane	5.00	U	0.090	5.00
75-71-8	Dichlorodifluoromethane	5.00	U	0.364	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.115	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB215153

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215153

Level: (low/med) LOW Lab File ID: 2041231/T3265

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1457

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.141	5.00
100-41-4	Ethylbenzene	5.00	U	0.207	5.00
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.153	5.00
79-20-9	Methyl Acetate	5.00	U	1.53	5.00
108-87-2	Methylcyclohexane	5.00	U	0.370	5.00
75-09-2	Methylene chloride	10.0	U	0.479	10.0
100-42-5	Styrene	5.00	U	0.152	5.00
127-18-4	Tetrachloroethene	5.00	U	0.192	5.00
108-88-3	Toluene	5.00	U	0.550	5.00
79-01-6	Trichloroethene	5.00	U	0.177	5.00
75-69-4	Trichlorofluoromethane	5.00	U	0.252	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.188	5.00
75-01-4	Vinyl chloride	2.00	U	0.351	2.00
1330-20-7	Xylene (total)	10.0	U	0.572	10.0
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.126	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.074	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.164	5.00

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3265.d
Lab Smp Id: 215513 Client Smp ID: MB FOR HBN 285580
Inj Date : 31-DEC-2004 14:57
Operator : MEF Inst ID: msv4.i
Smp Info : 215513*MB FOR HBN 285580
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:48 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.d
Als bottle: 14 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

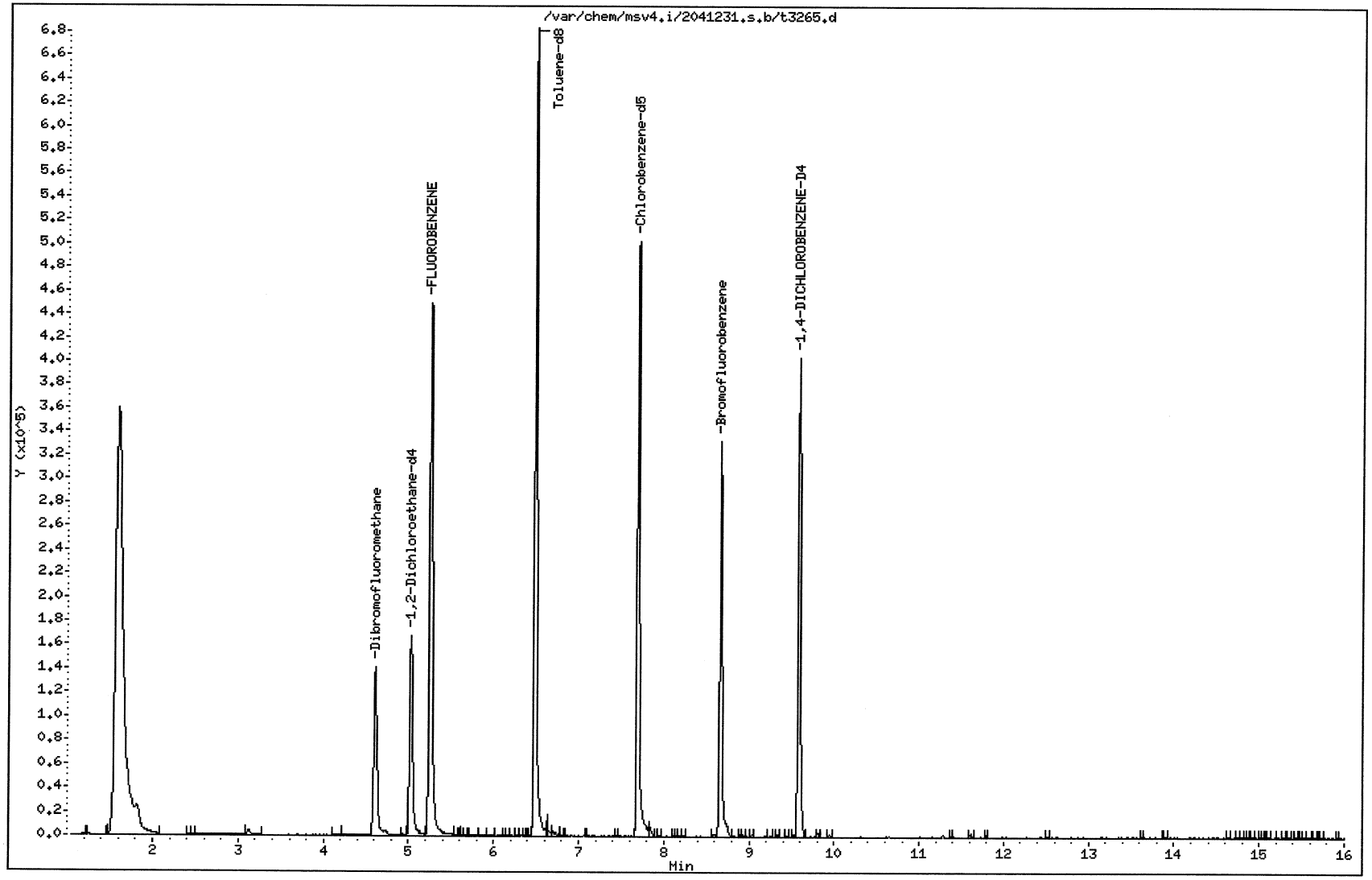
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
$ 36 Dibromofluoromethane	111	4.607	4.592	(0.876)	135272	53.9819	54.0	7543
$ 43 1,2-Dichloroethane-d4	67	5.022	5.007	(0.955)	82348	51.6522	51.7	9596
* 47 FLUOROBENZENE	96	5.257	5.242	(1.000)	548581	50.0000		9716
$ 59 Toluene-d8	98	6.484	6.476	(0.843)	510696	53.3586	53.4	9842
* 77 Chlorobenzene-d5	82	7.694	7.686	(1.000)	201158	50.0000		7635
$ 89 Bromofluorobenzene	174	8.663	8.661	(1.126)	81028	44.7825	44.8	9097
* 105 1,4-DICHLOROBENZENE-D4	152	9.578	9.582	(1.000)	105085	50.0000		6110

Data File: /var/chem/msv4.i/2041231.s.b/t3265.d
Date : 31-DEC-2004 14:57
Client ID: MB FOR HBN 285580
Sample Info: 215513*MB FOR HBN 285580

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

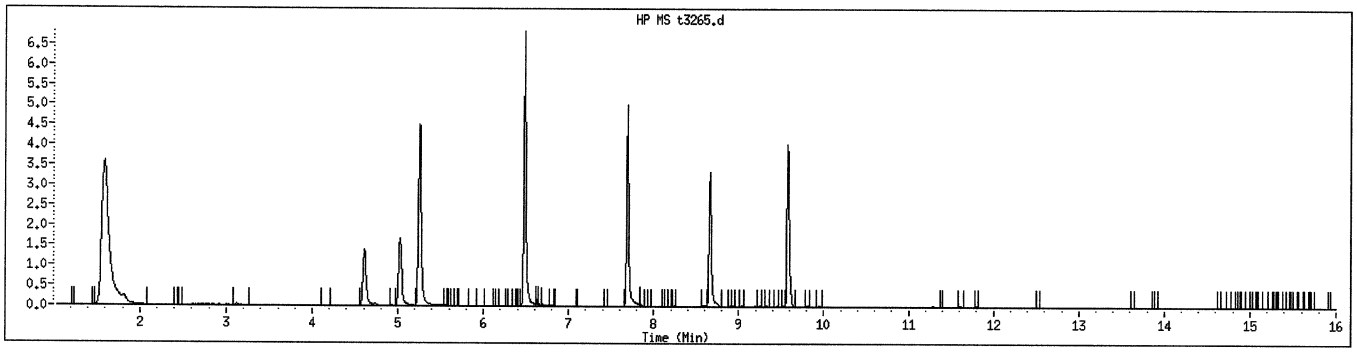


000226

Data file : /var/chem/msv4.i/2041231.s.b/t3265.d
Report Date: 01/04/2005 08:48

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 215513	SampleType	: BLANK
Injection Date	: 31-DEC-2004 14:57	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 215513*MB FOR HBN 285580		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB215362

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 215362

Level: (low/med) LOW Lab File ID: 2041230/S6941

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 1856

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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	0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.851	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.822	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.200	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.531	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.821	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.200	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.686	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.471	5.00
78-93-3	2-Butanone	10.0	U	0.817	10.0
591-78-6	2-Hexanone	10.0	U	0.833	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.820	10.0
67-64-1	Acetone	10.0	U	0.932	10.0
71-43-2	Benzene	1.00	U	0.836	1.00
75-27-4	Bromodichloromethane	0.600	U	0.600	0.600
75-25-2	Bromoform	4.00	U	0.742	4.00
74-83-9	Bromomethane	5.00	U	0.962	5.00
75-15-0	Carbon disulfide	5.00	U	0.764	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.848	3.00
108-90-7	Chlorobenzene	5.00	U	0.713	5.00
75-00-3	Chloroethane	5.00	U	0.820	5.00
67-66-3	Chloroform	5.00	U	0.919	5.00
74-87-3	Chloromethane	2.70	U	0.823	2.70
110-82-7	Cyclohexane	5.00	U	1.00	5.00
124-48-1	Dibromochloromethane	0.400	U	0.400	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.757	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB215362

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 215362

Level: (low/med) LOW Lab File ID: 2041230/S6941

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 1856

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.633	5.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	0.800	U	0.558	0.800
79-20-9	Methyl Acetate	5.00	U	1.00	5.00
108-87-2	Methylcyclohexane	5.00	U	1.00	5.00
75-09-2	Methylene chloride	5.00	U	0.748	5.00
100-42-5	Styrene	5.00	U	0.699	5.00
127-18-4	Tetrachloroethene	3.00	U	0.692	3.00
108-88-3	Toluene	5.00	U	0.678	5.00
79-01-6	Trichloroethene	3.00	U	0.989	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.926	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.480	5.00
75-01-4	Vinyl chloride	1.00	U	1.00	1.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.735	5.00

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6941.d
Lab Smp Id: 215362 Client Smp ID: MB FOR HBN 285627
Inj Date : 30-DEC-2004 18:56
Operator : RJO Inst ID: msv3.i
Smp Info : 215362*MB FOR HBN 285627
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 08:41 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 15 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

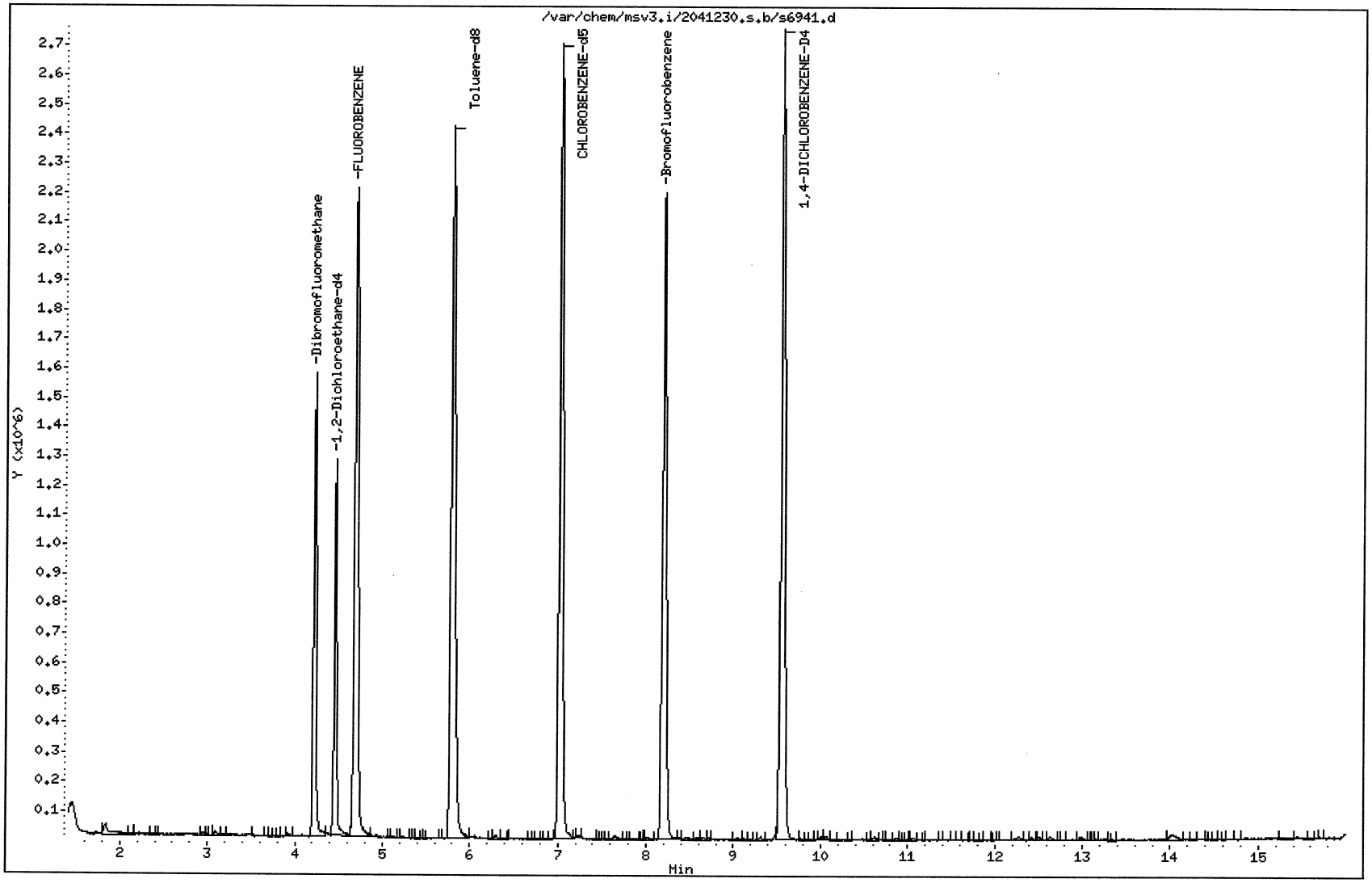
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 39 Dibromofluoromethane	111	4.218	4.219	(0.900)	951234	52.9208	52.9	9251
$ 45 1,2-Dichloroethane-d4	67	4.453	4.453	(0.950)	443620	48.7633	48.8	8826
* 48 FLUOROBENZENE	96	4.687	4.688	(1.000)	3000195	50.0000		8772
$ 61 Toluene-d8	98	5.792	5.798	(1.236)	3116500	53.4372	53.4	9037
* 71 CHLOROBENZENE-d5	82	7.022	7.023	(1.000)	1305703	50.0000		5538
$ 82 Bromofluorobenzene	174	8.196	8.196	(1.167)	1191362	52.0015	52.0	8372
* 97 1,4-DICHLOROBENZENE-D4	152	9.552	9.558	(1.000)	1387089	50.0000		4414

Data File: /var/chem/msv3.i/2041230.s.b/s6941.d
Date : 30-DEC-2004 18:56
Client ID: MB FOR HBN 285627
Sample Info: 215362*MB FOR HBN 285627
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

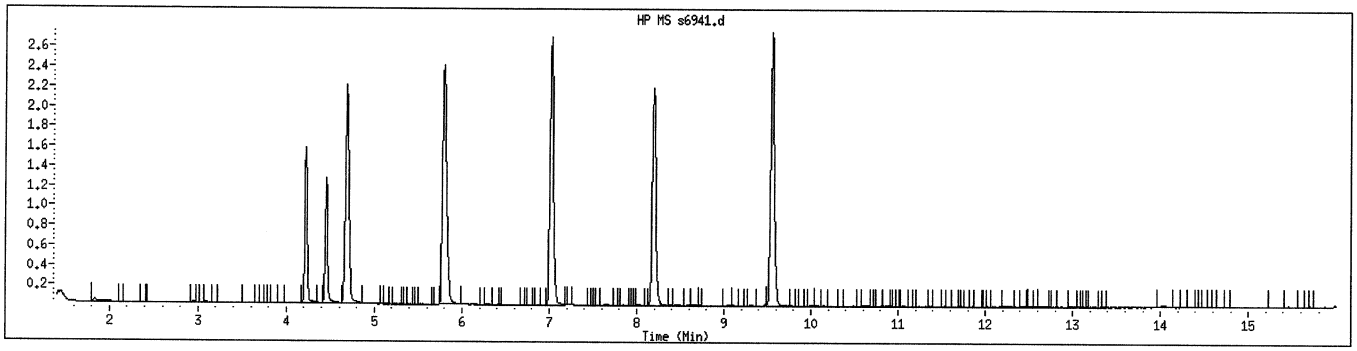


000231

Data file : /var/chem/msv3.i/2041230.s.b/s6941.d
Report Date: 12/31/2004 09:08

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 215362	SampleType	: BLANK
Injection Date	: 30-DEC-2004 18:56	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 215362*MB FOR HBN 285627		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS214616

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 214616

Level: (low/med) LOW Lab File ID: 2041229/T8781

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 12/29/04 Time: 0959

Soil Extract Volume: (µL) Dilution Factor: 50 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285454

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	1440		30.3	250

FORM I VOA

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8781.d
Lab Smp Id: 214616 Client Smp ID: LCS FOR HBN 285454
Inj Date : 29-DEC-2004 09:59
Operator : KCB Inst ID: msv0.i
Smp Info : 214616*LCS FOR HBN 285454
Misc Info : MSV~5636~*50*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/8260Bw0.m
Meth Date : 29-Dec-2004 09:21 kcb Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 50.00000
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	50.00000	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	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
1 Dichlorodifluoromethane	85	2.054	2.056	(0.323)	158687	25.6033	1280	
2 Chloromethane ++	50	2.265	2.267	(0.356)	115937	32.1783	1610	
3 Vinyl Chloride +	62	2.391	2.393	(0.376)	160224	29.0035	1450	
5 Bromomethane	94	2.774	2.776	(0.436)	52641	24.3527	1220	
6 Chloroethane	64	2.900	2.902	(0.456)	81689	28.8949	1440	
7 Trichlorofluoromethane	101	3.164	3.166	(0.497)	199674	29.5608	1480	
9 Acrolein	56	3.746	3.748	(0.589)	100503	158.151	7910	
10 1,1,2Trichlotrifluoroethane	101	3.726	3.728	(0.586)	109777	30.9581	1550	
11 1,1-Dichloroethene +	96	3.766	3.775	(0.592)	90742	30.6605	1530	
12 Acetone	43	3.911	3.920	(0.615)	96873	34.8564	1740	
13 Methyl Iodide	142	3.964	3.966	(0.623)	81135	48.0433	2400	(R)
14 Carbon Disulfide	76	3.991	3.999	(0.627)	382271	31.5581	1580	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
	17 Methylene Chloride	49	4.328	4.337	(0.680)	289355	31.6397	1580	
	19 trans-1,2-Dichloroethene	61	4.546	4.548	(0.714)	256146	30.0987	1500	
	20 Methyl Acetate	43	4.209	4.211	(0.661)	130817	32.1427	1610	2494(H)
	21 MTBE	73	4.526	4.528	(0.711)	385335	27.5027	1380	4601
	22 Acrylonitrile	53	4.638	4.641	(0.729)	393779	143.655	7180	
	23 Hexane	57	4.711	4.713	(0.740)	273767	29.8627	1490	2890(H)
	24 1,1-Dichloroethane ++	63	4.976	4.978	(0.782)	337381	28.2299	1410	
	25 Vinyl Acetate	43	4.995	4.998	(0.785)	462429	26.8993	1340	
	31 2,2-Dichloropropane	77	5.452	5.454	(0.857)	219694	27.6011	1380	
	30 cis-1,2-Dichloroethene	61	5.478	5.480	(0.861)	306614	27.8729	1390	
	32 2-Butanone	43	5.504	5.507	(0.865)	138619	26.4179	1320	
	34 Bromochloromethane	128	5.683	5.685	(0.893)	59768	25.9693	1300	
$	36 Dibromofluoromethane	111	5.861	5.864	(0.921)	240922	52.3588	2620	5249
	37 1,1,1-Trichloroethane	97	5.848	5.850	(0.919)	206496	27.5207	1380	
	38 Cyclohexane	56	5.835	5.837	(0.917)	353988	28.3713	1420	4515
	39 Carbon Tetrachloride	117	5.954	5.956	(0.936)	148012	27.8943	1390	
	41 Chloroform +	83	5.729	5.731	(0.900)	251178	26.5134	1330	
	42 1,1-Dichloropropene	75	5.974	5.976	(0.939)	215984	27.0947	1350	
$	43 1,2-Dichloroethane-d4	67	6.152	6.154	(0.967)	194411	52.7796	2640	
	44 Benzene	78	6.139	6.141	(0.965)	646169	25.9871	1300	
	46 1,2-Dichloroethane	62	6.212	6.214	(0.976)	264624	27.5614	1380	
*	47 FLUOROBENZENE	96	6.364	6.366	(1.000)	976481	50.0000		
M	48 Total 1,2-Dichloroethene	61				562760	57.9716	2900	
	49 Trichloroethene	130	6.628	6.624	(1.042)	123154	25.2663	1260	
	50 Methyl Cyclohexane	83	6.721	6.723	(1.056)	263359	27.3685	1370	6304
	51 1,2-Dichloropropane +	63	6.833	6.835	(1.074)	205525	26.1598	1310	
	52 Dibromomethane	93	6.932	6.934	(1.089)	84858	25.4012	1270	
	54 Bromodichloromethane	83	7.025	7.020	(1.104)	192173	26.2514	1310	
	56 2-Chloroethyl vinyl ether	63	7.283	7.285	(1.144)	302055	25.1694	1260	
	57 1-Bromr-2-chloroethana	144	7.283	7.285	(1.144)	20842	24.3283	1220	2473
	58 cis-1,3-Dichloropropene	75	7.349	7.344	(1.155)	282442	25.7301	1290	
	59 4-methyl-2-pentanone	43	7.435	7.437	(1.168)	254448	24.0959	1200	
$	60 Toluene-d8	98	7.507	7.510	(0.875)	917718	49.7524	2490	
	61 Toluene +	91	7.560	7.556	(0.881)	640277	25.0321	1250	
	62 trans-1,3-Dichloropropene	75	7.752	7.754	(0.904)	263291	25.2246	1260	
	65 1,1,2-Trichloroethane	97	7.891	7.893	(0.920)	121264	24.1048	1210	
	66 Tetrachloroethene	164	7.937	7.939	(0.925)	96745	25.1180	1260	
	67 1,3-Dichloropropane	76	8.023	8.025	(0.935)	287680	25.3676	1270	
	68 2-Hexanone	43	8.036	8.032	(0.937)	187939	24.9246	1250	
	69 Dibromochloromethane	129	8.175	8.171	(0.953)	121032	24.0440	1200	
	70 1,2-Dibromoethane(EDB)	107	8.281	8.283	(0.965)	119159	23.9988	1200	
*	71 CHLOROBENZENE-d5	82	8.578	8.574	(1.000)	491530	50.0000		
	72 Chlorobenzene ++	112	8.598	8.600	(1.002)	367454	23.9817	1200	
	73 Ethylbenzene +	106	8.625	8.627	(1.005)	197836	24.7168	1240	
	74 1,1,1,2-Tetrachloroethane	133	8.651	8.646	(1.008)	111675	24.7773	1240	
	75 p,m-Xylene	106	8.704	8.706	(1.015)	520479	51.1980	2560	
	76 o-Xylene	106	8.995	8.997	(1.049)	249878	25.4451	1270	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
	77 Styrene	104	9.008	9.010	(1.050)	455709	25.3472	1270	
	78 Bromoform ++	173	9.186	9.189	(1.071)	73354	23.6536	1180	
	79 Isopropylbenzene	105	9.219	9.222	(1.075)	646712	25.4639	1270	
$	80 Bromofluorobenzene	174	9.385	9.380	(1.094)	241698	45.2214	2260	
	81 1,1,2,2-Tetrachloroethane++	83	9.471	9.466	(0.934)	184827	24.8029	1240	
	84 Bromobenzene	77	9.497	9.499	(0.936)	433528	26.7845	1340	
	83 trans-1,4-Dichloro-2-Butene	53	9.510	9.506	(0.937)	68225	27.3539	1370	
	85 1,2,3-Trichloropropane	75	9.517	9.519	(0.938)	246204	25.7367	1290	
	86 n-Propylbenzene	91	9.497	9.493	(0.936)	917506	27.0493	1350	
	87 2-Chlorotoluene	91	9.603	9.598	(0.947)	589005	26.7262	1340	
	88 1,3,5-Trimethylbenzene	105	9.603	9.605	(0.947)	553682	26.8907	1340	
	90 4-Chlorotoluene	91	9.676	9.671	(0.954)	542435	26.0025	1300	
	91 tert-butylbenzene	91	9.821	9.823	(0.968)	403939	26.5644	1330	
	92 p-Isopropyltoluene	119	10.046	10.041	(0.990)	569358	26.5678	1330	
	93 1,2,4-Trimethylbenzene	105	9.861	9.863	(0.972)	566653	26.0935	1300	
	94 sec-Butylbenzene	105	9.966	9.962	(0.982)	743864	26.4731	1320	
	96 1,3-Dichlorobenzene	146	10.099	10.101	(0.995)	286535	25.6377	1280	
*	97 1,4-DICHLOROBENZENE-D4	152	10.145	10.140	(1.000)	344331	50.0000		
	98 1,4-Dichlorobenzene	146	10.158	10.160	(1.001)	296542	25.2609	1260	
M	99 TOTAL XYLENE	106				770357	76.6431	3830	
	100 n-Butylbenzene	91	10.310	10.306	(1.016)	644604	26.9755	1350	
	102 1,2-Dichlorobenzene	146	10.409	10.411	(1.026)	271038	25.3090	1270	
	106 1,2-Dibromo-3-Chloropropane	157	10.938	10.940	(1.078)	26067	24.1080	1210	
	108 1,2,4-Trichlorobenzene	180	11.474	11.469	(1.131)	153374	23.6203	1180	
	109 Hexachlorobutadiene	225	11.520	11.515	(1.136)	74586	25.3008	1270	
	110 Naphthalene	128	11.672	11.674	(1.151)	404373	26.0476	1300	
	111 1,2,3-Trichlorobenzene	180	11.844	11.846	(1.167)	147614	25.2715	1260	

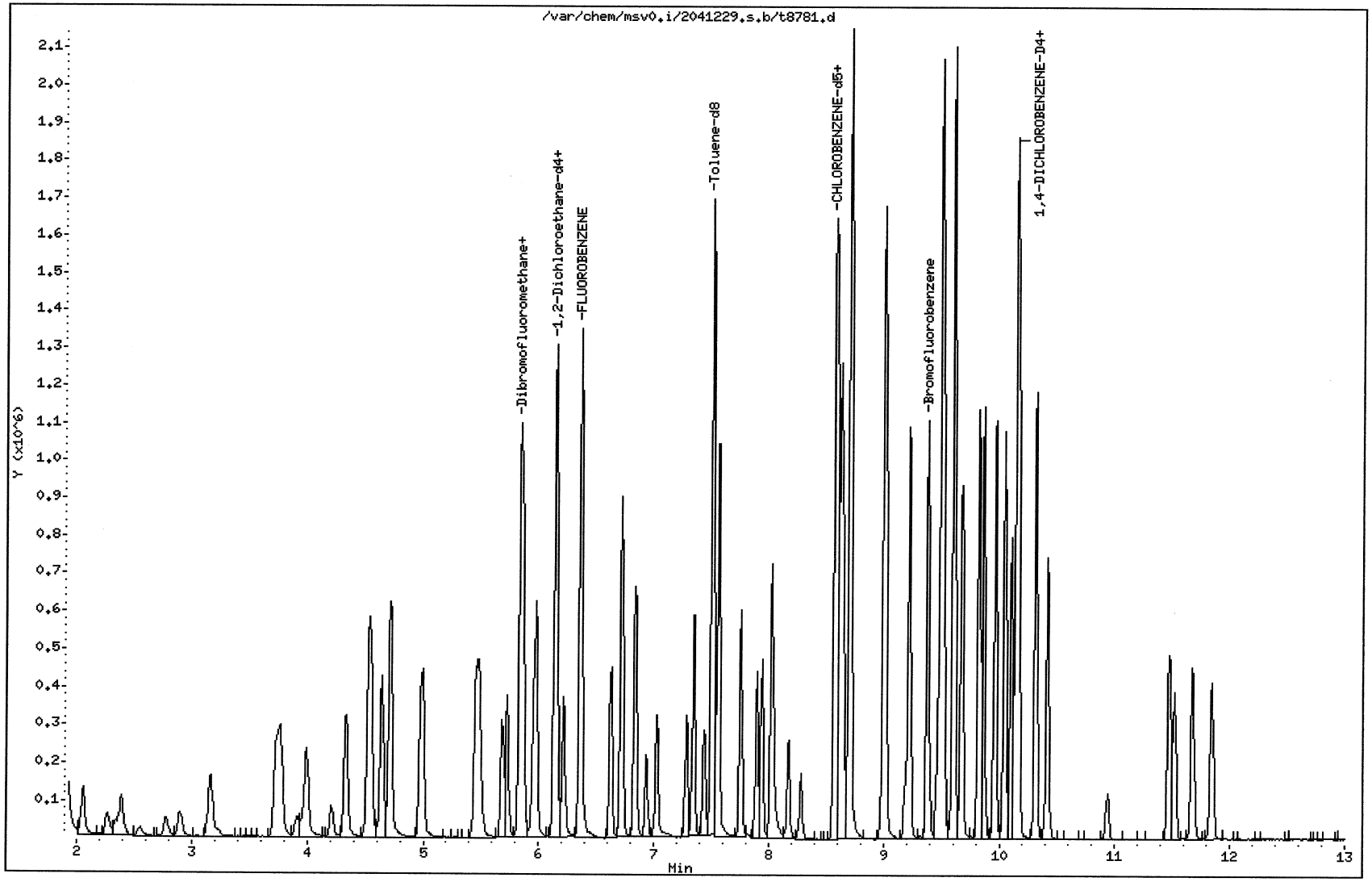
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2041229.s.b/t8781.d
Date : 29-DEC-2004 09:59
Client ID: LCS FOR HBN 285454
Sample Info: 214616*LCS FOR HBN 285454
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

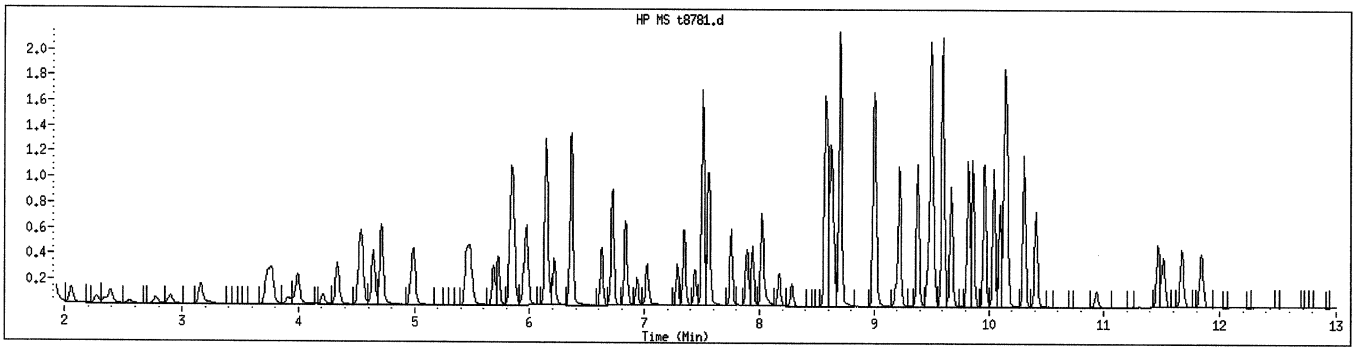


000237

Data file : /var/chem/msv0.i/2041229.s.b/t8781.d
Report Date: 12/29/2004 10:18

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 214616	SampleType	: LCS
Injection Date	: 29-DEC-2004 09:59	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 214616*LCS FOR HBN 285454		
Misc Info	: MSV~5636~*50*KCB		
Method	: /var/chem/msv0.i/2041229.s.b/8260Bw0.m		
Dilution	: 50.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS215154

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215154

Level: (low/med) LOW Lab File ID: 2041231/T3262

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1351

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	28.9		0.606	5.00
71-55-6	1,1,1-Trichloroethane	24.4		0.123	5.00
79-34-5	1,1,2,2-Tetrachloroethane	26.8		0.180	5.00
79-00-5	1,1,2-Trichloroethane	22.5		0.114	5.00
75-34-3	1,1-Dichloroethane	28.1		0.159	5.00
75-35-4	1,1-Dichloroethene	31.0		0.359	5.00
120-82-1	1,2,4-Trichlorobenzene	32.8		0.327	5.00
96-12-8	1,2-Dibromo-3-chloropropane	30.5		0.866	5.00
106-93-4	1,2-Dibromoethane	23.0		0.150	5.00
95-50-1	1,2-Dichlorobenzene	28.6		0.114	5.00
107-06-2	1,2-Dichloroethane	25.2		0.114	5.00
78-87-5	1,2-Dichloropropane	23.9		0.112	5.00
541-73-1	1,3-Dichlorobenzene	28.1		0.236	5.00
106-46-7	1,4-Dichlorobenzene	29.0		0.421	5.00
78-93-3	2-Butanone	16.2		0.312	5.00
591-78-6	2-Hexanone	22.4		0.826	5.00
108-10-1	4-Methyl-2-pentanone	24.2		0.173	5.00
67-64-1	Acetone	23.8	J	0.374	25.0
71-43-2	Benzene	24.9		0.104	5.00
75-27-4	Bromodichloromethane	24.7		0.135	5.00
75-25-2	Bromoform	23.2		0.169	5.00
74-83-9	Bromomethane	33.5		1.51	5.00
75-15-0	Carbon disulfide	30.5		0.109	5.00
56-23-5	Carbon tetrachloride	23.9		0.120	5.00
108-90-7	Chlorobenzene	24.4		0.165	5.00
67-66-3	Chloroform	18.1		0.141	5.00
74-87-3	Chloromethane	29.3		0.464	5.00
110-82-7	Cyclohexane	15.6		1.11	5.00
124-48-1	Dibromochloromethane	25.5		0.090	5.00
75-71-8	Dichlorodifluoromethane	25.2		0.364	5.00
10061-01-5	cis-1,3-Dichloropropene	24.7		0.115	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS215154

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215154

Level: (low/med) LOW Lab File ID: 2041231/T3262

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1351

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	25.4		0.141	5.00
100-41-4	Ethylbenzene	25.4		0.207	5.00
98-82-8	Isopropylbenzene (Cumene)	25.2		0.153	5.00
79-20-9	Methyl Acetate	27.7		1.53	5.00
108-87-2	Methylcyclohexane	26.7		0.370	5.00
75-09-2	Methylene chloride	27.5		0.479	10.0
100-42-5	Styrene	24.6		0.152	5.00
127-18-4	Tetrachloroethene	24.4		0.192	5.00
108-88-3	Toluene	25.7		0.550	5.00
79-01-6	Trichloroethene	25.0		0.177	5.00
75-69-4	Trichlorofluoromethane	30.0		0.252	5.00
76-13-1	Trichlorotrifluoroethane	29.8		0.188	5.00
75-01-4	Vinyl chloride	28.0		0.351	2.00
1330-20-7	Xylene (total)	79.2		0.572	10.0
156-59-2	cis-1,2-Dichloroethene	18.8		0.126	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	26.7		0.074	5.00
156-60-5	trans-1,2-Dichloroethene	28.8		0.164	5.00

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3262.d
Lab Smp Id: 215154 Client Smp ID: LCS FOR HBN 285580
Inj Date : 31-DEC-2004 13:51
Operator : MEF Inst ID: msv4.i
Smp Info : 215154*LCS FOR HBN 285580
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:48 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.667	1.655	(0.318)	83449	25.2243	25.2	4250
2 Chloromethane ++	50	1.799	1.781	(0.343)	97386	29.3468	29.3	7336
3 Vinyl Chloride +	62	1.848	1.842	(0.352)	81909	28.0403	28.0	6582
5 Bromomethane	94	2.052	2.040	(0.391)	13940	33.5498	33.5	8154
6 Chloroethane	64	2.149	2.125	(0.409)	5666	28.8568	28.9	0(M)
7 Trichlorofluoromethane	101	2.245	2.227	(0.428)	40831	29.9987	30.0	8880
13 Acrolein	56	2.901	2.895	(0.553)	24123	149.544	150	8177
11 1,1,2Trichlotrifluoroethane	101	2.660	2.648	(0.507)	40096	29.8170	29.8	8475
9 1,1-Dichloroethene +	96	2.618	2.600	(0.499)	33859	30.9828	31.0	8432
16 Acetone	43	3.178	3.160	(0.605)	19021	23.8190	23.8	7587
12 Methyl Iodide	142	2.738	2.720	(0.522)	41634	27.9845	28.0	7417
10 Carbon Disulfide	76	2.648	2.630	(0.505)	131287	30.4587	30.5	7620
15 Methylene Chloride	49	3.111	3.100	(0.593)	53277	27.5477	27.5	8938

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	27 Acrylonitrile	53	3.822	3.816	(0.728)	75026	146.694	147	8936
	17 trans-1,2-Dichloroethene	61	3.250	3.238	(0.619)	54792	28.7865	28.8	8962
	20 MTBE	73	3.370	3.358	(0.642)	108480	26.6979	26.7	8539
	19 Hexane	57	3.328	3.316	(0.634)	74012	30.7099	30.7	9176
	28 Vinyl Acetate	43	4.008	4.002	(0.764)	85068	29.9931	30.0	
	25 1,1-Dichloroethane ++	63	3.774	3.762	(0.719)	78400	28.1496	28.1	9274
	39 2-Butanone	43	4.718	4.713	(0.899)	61421	16.2450	16.2	
M	63 Total 1,2-Dichloroethene	61				113111	45.2503	45.3	0
	29 cis-1,2-Dichloroethene	61	4.225	4.219	(0.805)	58319	18.8371	18.8	9441
	30 2,2-Dichloropropane	77	4.315	4.303	(0.822)	69407	18.8321	18.8	9327
	31 Bromochloromethane	128	4.387	4.382	(0.836)	24791	18.8154	18.8	9467
	33 Chloroform +	83	4.454	4.448	(0.849)	91192	18.1168	18.1	9302
$	36 Dibromofluoromethane	111	4.598	4.592	(0.876)	128448	49.9396	49.9	9073
	37 1,1,1-Trichloroethane	97	4.616	4.610	(0.880)	93840	24.3807	24.4	7254
	40 1,1-Dichloropropene	75	4.718	4.707	(0.899)	101196	25.2367	25.2	8658
	35 Carbon Tetrachloride	117	4.568	4.556	(0.870)	86098	23.8814	23.9	8838
$	43 1,2-Dichloroethane-d4	67	5.019	5.007	(0.956)	78977	48.2629	48.3	9595
	45 1,2-Dichloroethane	62	5.074	5.062	(0.967)	91033	25.1751	25.2	9241
	42 Benzene	78	4.917	4.905	(0.937)	331264	24.8814	24.9	9765
*	47 FLUOROBENZENE	96	5.248	5.242	(1.000)	563071	50.0000		9664
	49 Trichloroethene	130	5.387	5.381	(1.026)	73174	25.0236	25.0	9638
	52 1,2-Dichloropropane +	63	5.784	5.778	(1.102)	86475	23.9295	23.9	9696
	57 2-Chloroethyl vinyl ether	63	6.205	6.199	(1.182)	120569	23.2008	23.2	4305(MH)
	56 1-Bromo-2-chloroethane	63	6.205	6.199	(1.182)	120569	22.9466	22.9	8976
	51 Dibromomethane	93	5.705	5.700	(1.087)	41609	23.2170	23.2	9179
	54 Bromodichloromethane	83	5.838	5.832	(1.112)	93546	24.7362	24.7	9584
	48 Methyl cyclohexane	83	5.374	5.363	(1.024)	130462	26.6569	26.7	9311
	58 cis-1,3-Dichloropropene	75	6.337	6.326	(1.208)	129198	24.7211	24.7	
	64 4-methyl-2-pentanone	43	6.819	6.813	(1.299)	87590	24.1536	24.2	
$	59 Toluene-d8	98	6.482	6.476	(0.843)	519732	52.3162	52.3	9814
	60 Toluene +	91	6.524	6.518	(0.848)	310966	25.6805	25.7	9656
	67 trans-1,3-Dichloropropene	75	6.843	6.837	(1.304)	116006	25.4148	25.4	
M	74 1-3 Dichloropropene-Total	100				245204	25.0445	25.0	0
	68 1,1,2-Trichloroethane	97	6.963	6.957	(0.905)	57071	22.5490	22.5	9732
	72 1,3-Dichloropropane	76	7.174	7.168	(0.933)	115309	23.6864	23.7	9410
	75 2-Hexanone	43	7.469	7.463	(0.971)	66095	22.4084	22.4	9387
	66 Tetrachloroethene	164	6.825	6.819	(0.887)	42365	24.3751	24.4	8793
	71 Dibromochloromethane	129	7.108	7.102	(0.924)	57318	25.5261	25.5	9396
	73 1,2-Dibromoethane(EDB)	107	7.282	7.282	(0.947)	53953	22.9980	23.0	9147
*	77 Chlorobenzene-d5	82	7.692	7.686	(1.000)	208796	50.0000		9265
	78 Chlorobenzene ++	112	7.704	7.698	(1.002)	177613	24.4303	24.4	7007
	80 1,1,1,2-Tetrachloroethane	133	7.758	7.752	(1.009)	52598	24.3053	24.3	9207
	79 Ethylbenzene +	91	7.728	7.728	(1.005)	319170	25.3997	25.4	9493
	81 p,m-Xylene	106	7.842	7.830	(1.020)	245399	55.0669	55.1	9723(H)
	83 o-Xylene	106	8.185	8.179	(1.064)	109892	24.1977	24.2	
	84 Styrene	104	8.227	8.221	(1.070)	190169	24.5973	24.6	9645
	85 Bromoform ++	173	8.245	8.239	(1.072)	29862	23.1905	23.2	7164

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
87 Isopropylbenzene	105	8.432	8.432	(1.096)	285404	25.2197	25.2	9652
$ 89 Bromofluorobenzene	174	8.667	8.661	(1.127)	84767	45.1352	45.1	9246
92 1,1,2,2-Tetrachloroethane++	83	8.817	8.817	(0.920)	75631	26.8196	26.8	9485
96 trans-1,4-Dichloro-2-Butene	53	8.962	8.962	(0.935)	28445	32.2918	32.3	8884
95 1,2,3-Trichloropropane	75	8.931	8.920	(0.932)	98191	29.3302	29.3	9296
90 Bromobenzene	77	8.751	8.745	(0.913)	132135	29.1415	29.1	8696
91 n-Propylbenzene	91	8.769	8.769	(0.915)	370030	29.7628	29.8	9136
93 2-Chlorotoluene	91	8.901	8.895	(0.929)	233439	29.0672	29.1	9457
94 1,3,5-Trimethylbenzene	105	8.931	8.932	(0.932)	242983	30.7422	30.7	
97 4-Chlorotoluene	91	9.034	9.034	(0.943)	202875	28.5725	28.6	9559
M 113 TOTAL XYLENE	106				355291	79.2224	79.2	0
99 tert-butylbenzene	91	9.190	9.184	(0.959)	143552	30.5644	30.6	9619
100 1,2,4-Trimethylbenzene	105	9.250	9.245	(0.965)	231997	30.2436	30.2	
102 sec-Butylbenzene	105	9.335	9.335	(0.974)	312147	29.7523	29.8	
103 p-Isopropyltoluene	119	9.455	9.449	(0.987)	239410	30.0887	30.1	9775
104 1,3-Dichlorobenzene	146	9.521	9.515	(0.994)	101654	28.1471	28.1	
* 105 1,4-DICHLOROBENZENE-D4	152	9.581	9.582	(1.000)	109146	50.0000		8180
106 1,4-Dichlorobenzene	146	9.594	9.594	(1.001)	110328	29.0151	29.0	
109 n-Butylbenzene	91	9.804	9.798	(1.023)	246644	30.8806	30.9	9685
110 1,2-Dichlorobenzene	146	9.943	9.943	(1.038)	93017	28.6066	28.6	
112 1,2-Dibromo-3-Chloropropane	157	10.635	10.629	(1.110)	9643	30.5021	30.5	8047
115 1,2,4-Trichlorobenzene	180	11.285	11.273	(1.178)	43421	32.7596	32.8	(R)
114 Hexachlorobutadiene	225	11.249	11.249	(1.174)	25523	31.8757	31.9	9677(R)
116 Napthalene	128	11.610	11.598	(1.212)	97148	35.3891	35.4	9442(R)
117 1,2,3-Trichlorobenzene	180	11.796	11.790	(1.231)	37486	33.5596	33.6	(R)
32 Cyclohexane	56	4.387	4.382	(0.836)	71864	15.5993	15.6	9693(R)
18 Methyl Acetate	43	3.334	3.304	(0.635)	81565	27.7152	27.7	0(M)

QC Flag Legend

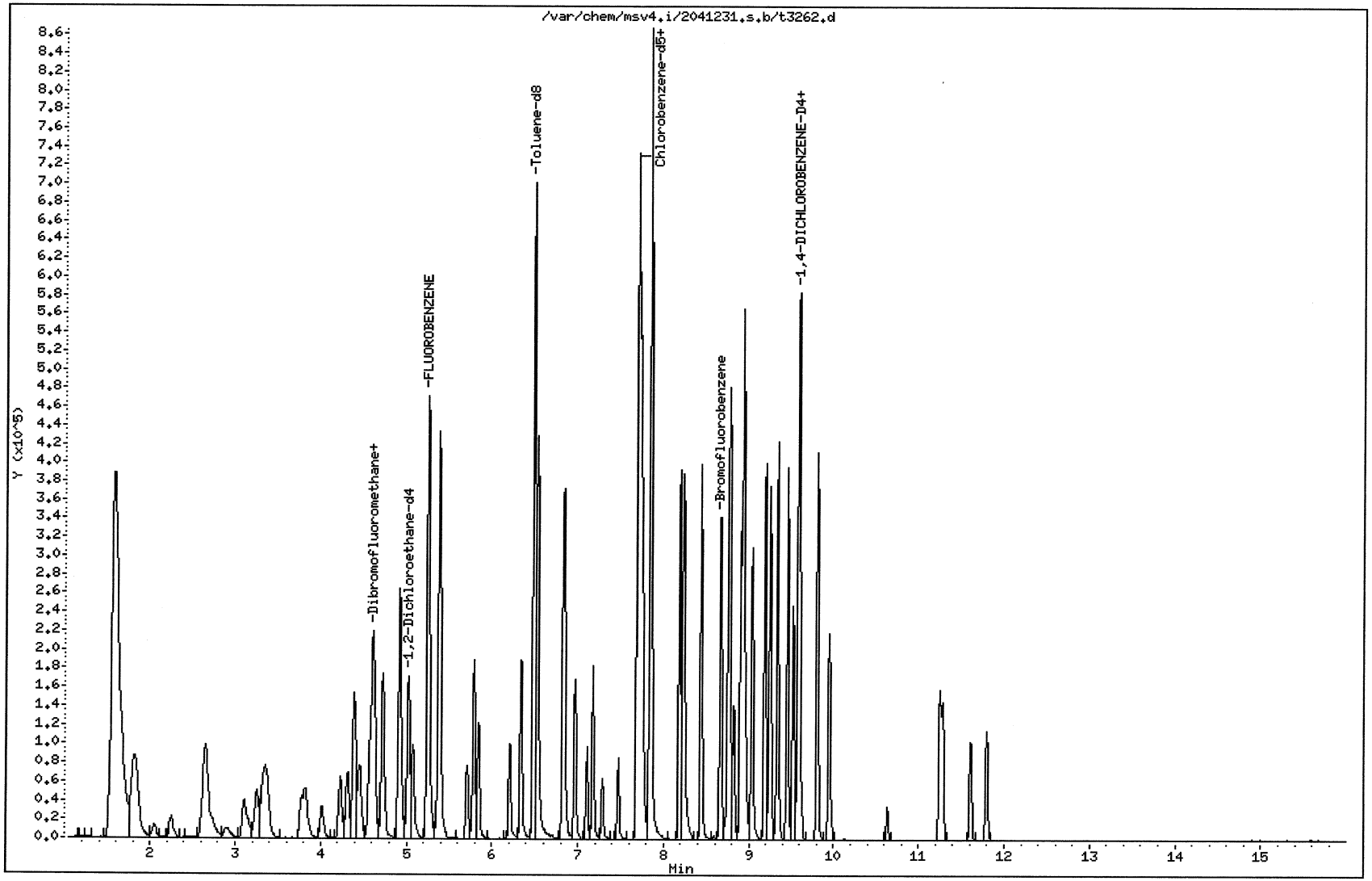
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3262.d
Date : 31-DEC-2004 13:51
Client ID: LCS FOR HBN 285580
Sample Info: 215154*LCS FOR HBN 285580

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

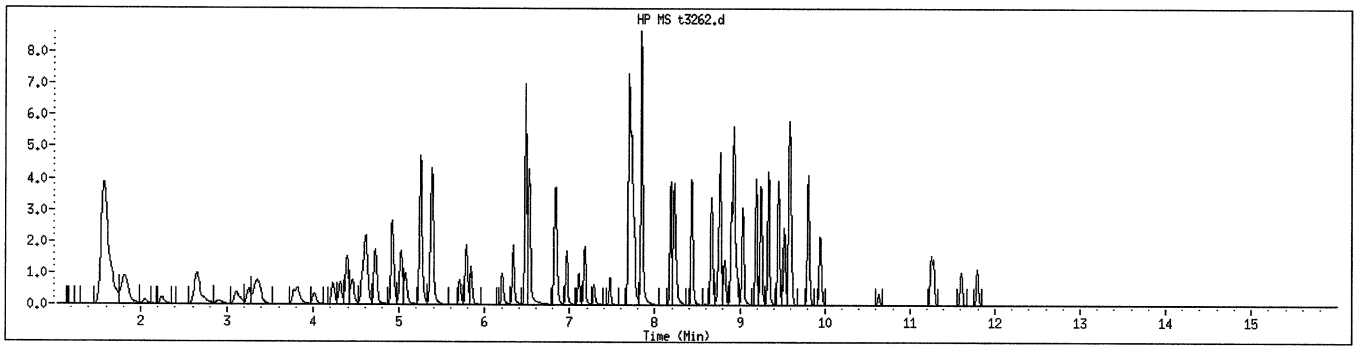


000244

Data file : /var/chem/msv4.i/2041231.s.b/t3262.d
Report Date: 01/04/2005 08:48

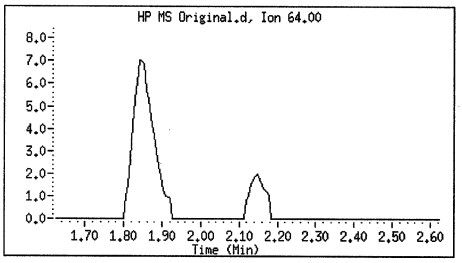
MANUAL INTEGRATION GRAPHIC REPORT

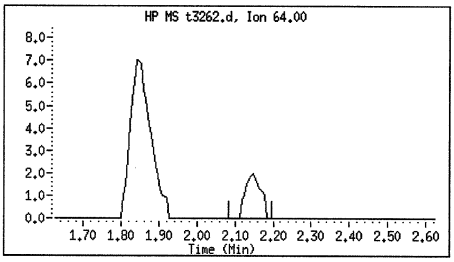
Lab ID	: 215154	SampleType	: LCS
Injection Date	: 31-DEC-2004 13:51	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 215154*LCS FOR HBN 285580		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



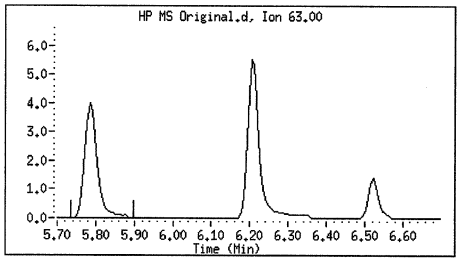
Original | Final

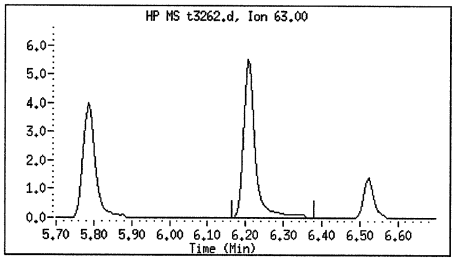
6 Chloroethane CAS#: 75-00-3





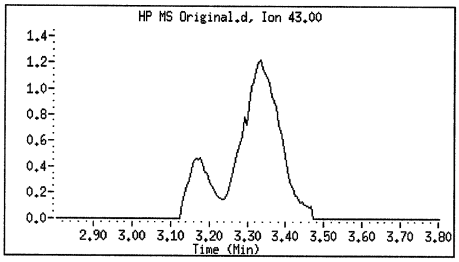
57 2-Chloroethyl vinyl ether CAS#: 110-75-8

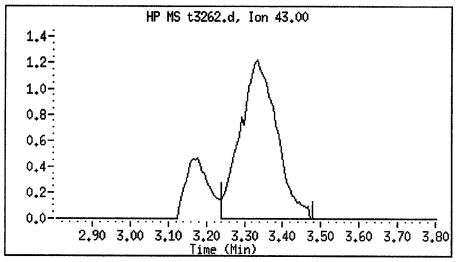




Original | Final

18 Methyl Acetate CAS#: 79-20-9





1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS215363

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 215363

Level: (low/med) LOW Lab File ID: 2041230/S6937

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 1726

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	26.2		0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	23.6		0.200	0.200
79-00-5	1,1,2-Trichloroethane	24.7		0.851	5.00
75-34-3	1,1-Dichloroethane	25.9		0.822	5.00
75-35-4	1,1-Dichloroethene	26.9		0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	29.0		0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	23.4		0.200	0.200
106-93-4	1,2-Dibromoethane	24.8		0.200	0.200
95-50-1	1,2-Dichlorobenzene	25.4		0.531	5.00
107-06-2	1,2-Dichloroethane	24.5		0.821	3.00
78-87-5	1,2-Dichloropropane	25.1		0.200	5.00
541-73-1	1,3-Dichlorobenzene	25.8		0.686	5.00
106-46-7	1,4-Dichlorobenzene	25.8		0.471	5.00
78-93-3	2-Butanone	22.6		0.817	10.0
591-78-6	2-Hexanone	29.4		0.833	10.0
108-10-1	4-Methyl-2-pentanone	25.5		0.820	10.0
67-64-1	Acetone	20.6		0.932	10.0
71-43-2	Benzene	25.2		0.836	1.00
75-27-4	Bromodichloromethane	23.4		0.600	0.600
75-25-2	Bromoform	24.5		0.742	4.00
74-83-9	Bromomethane	38.9		0.962	5.00
75-15-0	Carbon disulfide	26.9		0.764	5.00
56-23-5	Carbon tetrachloride	26.1		0.848	3.00
108-90-7	Chlorobenzene	25.2		0.713	5.00
75-00-3	Chloroethane	26.1		0.820	5.00
67-66-3	Chloroform	25.2		0.919	5.00
74-87-3	Chloromethane	24.1		0.823	2.70
110-82-7	Cyclohexane	25.1		1.00	5.00
124-48-1	Dibromochloromethane	24.8		0.400	0.400
75-71-8	Dichlorodifluoromethane	26.8		0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	24.6		0.757	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS215363

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 215363

Level: (low/med) LOW Lab File ID: 2041230/S6937

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 1726

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	24.4		0.633	5.00
100-41-4	Ethylbenzene	25.1		0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	26.3		0.558	0.800
79-20-9	Methyl Acetate	22.6		1.00	5.00
108-87-2	Methylcyclohexane	25.2		1.00	5.00
75-09-2	Methylene chloride	24.9		0.748	5.00
100-42-5	Styrene	25.5		0.699	5.00
127-18-4	Tetrachloroethene	27.1		0.692	3.00
108-88-3	Toluene	25.8		0.678	5.00
79-01-6	Trichloroethene	24.6		0.989	3.00
75-69-4	Trichlorofluoromethane	26.4		0.926	5.00
76-13-1	Trichlorotrifluoroethane	28.2		0.480	5.00
75-01-4	Vinyl chloride	24.1		1.00	1.00
1330-20-7	Xylene (total)	76.9		2.24	5.00
156-59-2	cis-1,2-Dichloroethene	25.3		0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	25.2		0.531	5.00
156-60-5	trans-1,2-Dichloroethene	26.1		0.735	5.00

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6937.d
Lab Smp Id: 215363 Client Smp ID: LCS FOR HBN 285627
Inj Date : 30-DEC-2004 17:26
Operator : RJO Inst ID: msv3.i
Smp Info : 215363*LCS FOR HBN 285627
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 08:41 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 11 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.605	1.592	(0.343)	445685	26.8478	26.8	9217
2 Chloromethane ++	50	1.782	1.775	(0.380)	263014	24.1458	24.1	8720
3 Vinyl Chloride +	62	1.862	1.849	(0.398)	334259	24.0535	24.1	9054
5 Bromomethane	94	2.137	2.124	(0.456)	275140	38.9297	38.9	9411
6 Chloroethane	64	2.212	2.193	(0.472)	114226	26.1246	26.1	8812
7 Trichlorofluoromethane	101	2.418	2.393	(0.516)	497967	26.4310	26.4	9068
9 Acrolein	56	2.715	2.696	(0.580)	155089	143.869	144	8521
10 1,1,2Trichlotrifluoroethane	101	2.778	2.765	(0.593)	418149	28.1838	28.2	8091
11 1,1-Dichloroethene +	96	2.784	2.771	(0.594)	344407	26.9496	26.9	8315
12 Acetone	43	2.835	2.811	(0.605)	100141	20.5586	20.6	(a)
13 Methyl Iodide	142	2.893	2.879	(0.618)	756672	26.6202	26.6	9444
14 Carbon Disulfide	76	2.956	2.937	(0.631)	1223334	26.8538	26.9	9511
17 Methyl Acetate	43	3.030	3.017	(0.647)	138155	22.6262	22.6	3304
18 Methylene Chloride	49	3.093	3.080	(0.660)	350194	24.8641	24.9	8206
20 Acrylonitrile	53	3.259	3.246	(0.696)	518955	119.775	120	7090

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	21 MTBE	73	3.288	3.274	(0.702)	946256	25.2439	25.2	8789
	22 trans-1,2-Dichloroethene	61	3.288	3.274	(0.702)	453433	26.1167	26.1	
	24 Hexane	57	3.494	3.480	(0.746)	414648	25.0975	25.1	9003
	25 Vinyl Acetate	43	3.568	3.560	(0.762)	599984	24.6219	24.6	
	26 1,1-Dichloroethane ++	63	3.557	3.549	(0.759)	607638	25.8877	25.9	7851
M	30 Total 1,2-Dichloroethene	61				1002963	51.2789	51.3	0
	32 2-Butanone	43	3.929	3.921	(0.839)	133366	22.5547	22.6	(a)
	34 cis-1,2-Dichloroethene	61	3.923	3.915	(0.837)	549530	25.2586	25.3	
	35 2,2-Dichloropropane	77	3.940	3.927	(0.841)	582613	26.0402	26.0	8299
	37 Bromochloromethane	128	4.083	4.076	(0.872)	268429	25.9716	26.0	7379
	38 Chloroform +	83	4.117	4.116	(0.879)	716681	25.1976	25.2	8933
$	39 Dibromofluoromethane	111	4.220	4.219	(0.901)	1052935	51.9417	51.9	9286
	40 1,1,1-Trichloroethane	97	4.272	4.264	(0.912)	668981	26.2252	26.2	8405
	42 Cyclohexane	56	4.323	4.316	(0.923)	485671	25.0825	25.1	8769
	43 1,1-Dichloropropene	75	4.381	4.373	(0.935)	517124	25.3801	25.4	8268
	44 Carbon Tetrachloride	117	4.386	4.379	(0.936)	549287	26.1402	26.1	8012
$	45 1,2-Dichloroethane-d4	67	4.455	4.453	(0.951)	489218	47.6827	47.7	8815
	46 1,2-Dichloroethane	62	4.507	4.499	(0.962)	535123	24.4675	24.5	7949
	47 Benzene	78	4.529	4.522	(0.967)	1484971	25.1577	25.2	8825
*	48 FLUOROBENZENE	96	4.684	4.688	(1.000)	3383559	50.0000		8831
	49 Trichloroethene	130	4.936	4.928	(1.054)	528546	24.6076	24.6	8651
	51 Methyl Cyclohexane	83	5.079	5.083	(1.084)	675276	25.2156	25.2	8667
	52 1,2-Dichloropropane +	63	5.085	5.083	(1.086)	358135	25.1443	25.1	8433
	55 Dibromomethane	93	5.159	5.157	(1.101)	305038	23.9641	24.0	7818
	56 Bromodichloromethane	83	5.256	5.249	(1.122)	557991	23.4410	23.4	8965
	57 2-Chloroethyl vinyl ether	63	5.434	5.432	(1.160)	211037	22.6426	22.6	9111
	58 1-Bromo-2-chloroethane	63	5.502	5.495	(1.175)	521262	23.8440	23.8	8392
	59 cis-1,3-Dichloropropene	75	5.577	5.569	(1.191)	665583	24.6087	24.6	
	60 4-methyl-2-pentanone	43	5.657	5.655	(1.208)	316574	25.4594	25.5	
$	61 Toluene-d8	98	5.794	5.798	(1.237)	3405001	51.7690	51.8	9028
	62 Toluene +	91	5.846	5.850	(1.248)	1916195	25.8151	25.8	8611
	63 trans-1,3-Dichloropropene	75	5.978	5.981	(1.276)	661557	24.4099	24.4	
M	138 Total-1-3 Dichloropropene	100				1327140	49.1662	49.2	0
	65 1,1,2-Trichloroethane	97	6.138	6.136	(0.874)	404350	24.6503	24.7	9190
	66 1,3-Dichloropropane	76	6.287	6.285	(0.895)	609370	24.7439	24.7	7612
	67 Tetrachloroethene	164	6.304	6.302	(0.897)	470446	27.0757	27.1	6198
	68 2-Hexanone	43	6.315	6.313	(0.899)	257644	29.3760	29.4	
	69 Dibromochloromethane	129	6.487	6.491	(0.923)	589315	24.8057	24.8	8623
	70 1,2-Dibromoethane(EDB)	107	6.613	6.617	(0.941)	477689	24.7762	24.8	9618
*	71 CHLOROBENZENE-d5	82	7.025	7.023	(1.000)	1437465	50.0000		6447
	72 Chlorobenzene ++	112	7.053	7.052	(1.004)	1314259	25.1779	25.2	7481
	73 1,1,1,2-Tetrachloroethane	133	7.105	7.109	(1.011)	480226	24.8004	24.8	7795
	74 Ethylbenzene +	106	7.134	7.132	(1.015)	672118	25.0630	25.1	
	75 p,m-Xylene	106	7.237	7.241	(1.030)	1664881	51.7005	51.7	
	76 o-Xylene	106	7.643	7.641	(1.088)	803984	25.2022	25.2	
	77 Styrene	104	7.649	7.653	(1.089)	1437224	25.4767	25.5	9085
M	78 TOTAL XYLENE	106				2468865	76.9068	76.9	0

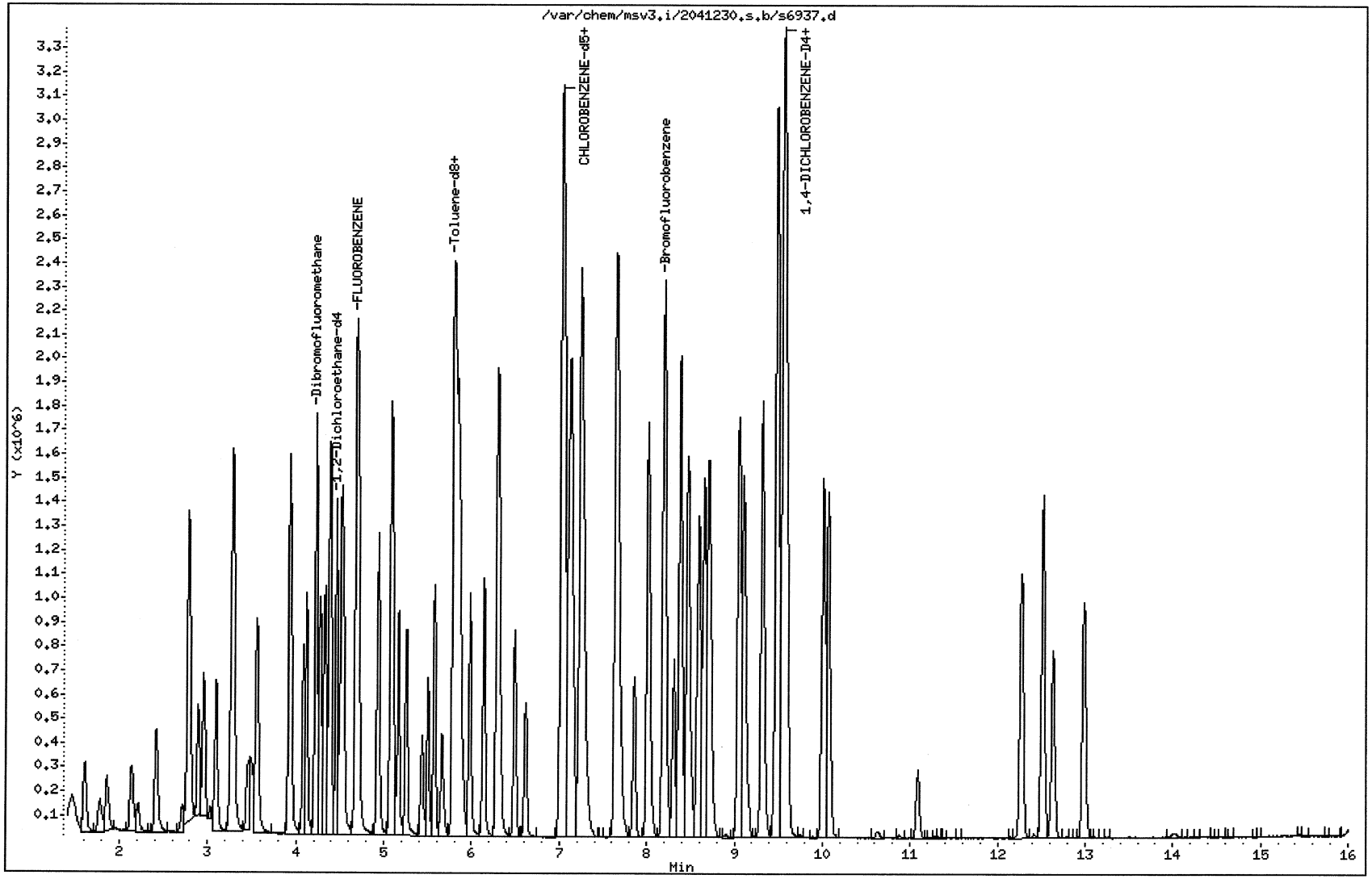
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
79 Bromoform ++	173	7.855	7.859	(1.118)	435807	24.4832	24.5	8577
80 Isopropylbenzene	105	8.015	8.013	(1.141)	2088830	26.3289	26.3	8928
$ 82 Bromofluorobenzene	174	8.198	8.196	(1.167)	1304265	51.7113	51.7	8343
83 1,1,2,2-Tetrachloroethane++	83	8.307	8.305	(0.869)	485929	23.6287	23.6	9025
84 trans-1,4-Dichloro-2-Butene	53	8.370	8.368	(0.876)	104628	23.3701	23.4	7693
85 1,2,3-Trichloropropane	75	8.376	8.374	(0.877)	599354	24.4984	24.5	7759
86 Bromobenzene	77	8.381	8.379	(0.877)	902049	24.4116	24.4	8548
87 n-Propylbenzene	91	8.467	8.471	(0.886)	2345714	25.8701	25.9	
88 2-Chlorotoluene	91	8.593	8.591	(0.899)	1575618	25.9931	26.0	
89 1,3,5-Trimethylbenzene	105	8.656	8.666	(0.906)	1597980	27.0890	27.1	9023
90 4-Chlorotoluene	91	8.713	8.717	(0.912)	1577821	25.2534	25.3	
91 tert-butylbenzene	91	9.051	9.055	(0.947)	1197829	25.7219	25.7	8573
93 1,2,4-Trimethylbenzene	105	9.108	9.112	(0.953)	1500397	27.0150	27.0	
94 sec-Butylbenzene	105	9.320	9.324	(0.975)	2224851	25.9654	26.0	
95 p-Isopropyltoluene	119	9.486	9.490	(0.993)	1757149	26.8898	26.9	8800
96 1,3-Dichlorobenzene	146	9.480	9.484	(0.992)	1162058	25.8129	25.8	
* 97 1,4-DICHLOROBENZENE-D4	152	9.555	9.558	(1.000)	1529820	50.0000		5232
98 1,4-Dichlorobenzene	146	9.583	9.593	(1.003)	1181834	25.7695	25.8	
99 n-Butylbenzene	91	10.007	10.016	(1.047)	1391811	27.3838	27.4	9347
100 1,2-Dichlorobenzene	146	10.070	10.074	(1.054)	1097621	25.4286	25.4	
101 1,2-Dibromo-3-Chloropropane	157	11.088	11.092	(1.161)	145319	23.4123	23.4	8118
103 1,2,4-Trichlorobenzene	180	12.273	12.277	(1.285)	624618	29.0433	29.0	
104 Hexachlorobutadiene	225	12.514	12.517	(1.310)	477766	27.8687	27.9	8370
105 Naphthalene	128	12.628	12.632	(1.322)	1124346	32.4430	32.4	8565
106 1,2,3-Trichlorobenzene	180	12.989	12.992	(1.359)	572140	29.3914	29.4	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv3.i/2041230.s.b/s6937.d
Date : 30-DEC-2004 17:26
Client ID: LCS FOR HBN 285627
Sample Info: 215363*LCS FOR HBN 285627
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i
Operator: RJO
Column diameter: 0.53

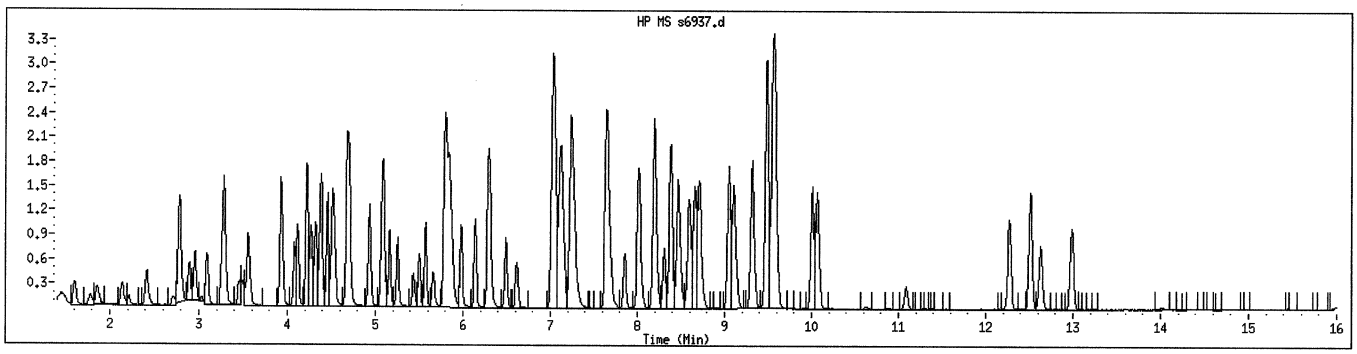


000252

Data file : /var/chem/msv3.i/2041230.s.b/s6937.d
Report Date: 12/31/2004 09:05

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 215363	SampleType	: LCS
Injection Date	: 30-DEC-2004 17:26	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 215363*LCS FOR HBN 285627		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD214625

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 214625

Level: (low/med) LOW Lab File ID: 2041229/T8782

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV0 Date Analyzed: 12/29/04 Time: 1021

Soil Extract Volume: (µL) Dilution Factor: 50 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285454

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	1400		30.3	250

GCAL, Inc.

Data file : /var/chem/msv0.i/2041229.s.b/t8782.d
Lab Smp Id: 214625 Client Smp ID: LCSD FOR HBN 285454
Inj Date : 29-DEC-2004 10:21
Operator : KCB Inst ID: msv0.i
Smp Info : 214625*LCSD FOR HBN 285454
Misc Info : MSV~5636~*50*KCB
Comment :
Method : /var/chem/msv0.i/2041229.s.b/8260Bw0.m
Meth Date : 29-Dec-2004 09:21 kcb Quant Type: ISTD
Cal Date : 27-DEC-2004 14:36 Cal File: t8728.d
Als bottle: 5 QC Sample: LCSD
Dil Factor: 50.00000
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	50.00000	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	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
1 Dichlorodifluoromethane	85	2.057	2.056	(0.323)	139378	22.5914	1130	
2 Chloromethane ++	50	2.268	2.267	(0.357)	102733	28.6448	1430	
3 Vinyl Chloride +	62	2.387	2.393	(0.375)	151332	27.5199	1380	
5 Bromomethane	94	2.777	2.776	(0.437)	48214	22.4073	1120	
6 Chloroethane	64	2.896	2.902	(0.455)	79024	28.0809	1400	
7 Trichlorofluoromethane	101	3.161	3.166	(0.497)	193559	28.7874	1440	
9 Acrolein	56	3.749	3.748	(0.589)	97338	153.875	7690	
10 1,1,2Trichlotrifluoroethane	101	3.729	3.728	(0.586)	102815	29.1282	1460	
11 1,1-Dichloroethene +	96	3.769	3.775	(0.593)	84190	28.5776	1430	
12 Acetone	43	3.914	3.920	(0.615)	91392	32.8357	1640	
13 Methyl Iodide	142	3.961	3.966	(0.623)	78996	46.9920	2350	(R)
14 Carbon Disulfide	76	3.994	3.999	(0.628)	343194	28.4625	1420	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
	17 Methylene Chloride	49	4.331	4.337	(0.681)	253514	27.8482	1390	
	19 trans-1,2-Dichloroethene	61	4.549	4.548	(0.715)	242255	28.5974	1430	
	20 Methyl Acetate	43	4.212	4.211	(0.662)	106298	26.2384	1310	2583(H)
	21 MTBE	73	4.522	4.528	(0.711)	385898	27.6696	1380	4179
	22 Acrylonitrile	53	4.641	4.641	(0.730)	398466	146.033	7300	
	23 Hexane	57	4.714	4.713	(0.741)	259704	28.4591	1420	2886(H)
	24 1,1-Dichloroethane ++	63	4.979	4.978	(0.783)	331082	27.8303	1390	
	25 Vinyl Acetate	43	4.998	4.998	(0.786)	460951	26.9368	1350	
	31 2,2-Dichloropropane	77	5.454	5.454	(0.858)	212835	26.8624	1340	
	30 cis-1,2-Dichloroethene	61	5.481	5.480	(0.862)	297084	27.1309	1360	
	32 2-Butanone	43	5.507	5.507	(0.866)	147950	28.3260	1420	
	34 Bromochloromethane	128	5.686	5.685	(0.894)	58260	25.4306	1270	
$	36 Dibromofluoromethane	111	5.864	5.864	(0.922)	242932	53.0386	2650	5341
	37 1,1,1-Trichloroethane	97	5.851	5.850	(0.920)	196540	26.3144	1320	
	38 Cyclohexane	56	5.838	5.837	(0.918)	335319	26.9987	1350	4564
	39 Carbon Tetrachloride	117	5.950	5.956	(0.936)	143720	27.2100	1360	
	41 Chloroform +	83	5.725	5.731	(0.900)	244589	25.9367	1300	
	42 1,1-Dichloropropene	75	5.977	5.976	(0.940)	212334	26.7594	1340	
$	43 1,2-Dichloroethane-d4	67	6.155	6.154	(0.968)	194985	53.1790	2660	
	44 Benzene	78	6.142	6.141	(0.966)	641013	25.8984	1290	
	46 1,2-Dichloroethane	62	6.215	6.214	(0.977)	260596	27.2668	1360	
*	47 FLUOROBENZENE	96	6.360	6.366	(1.000)	972008	50.0000		
M	48 Total 1,2-Dichloroethene	61				539339	55.7283	2790	
	49 Trichloroethene	130	6.625	6.624	(1.042)	120760	24.8891	1240	
	50 Methyl Cyclohexane	83	6.717	6.723	(1.056)	253108	26.4243	1320	6308
	51 1,2-Dichloropropane +	63	6.836	6.835	(1.075)	201222	25.7299	1290	
	52 Dibromomethane	93	6.935	6.934	(1.090)	84745	25.4841	1270	
	54 Bromodichloromethane	83	7.021	7.020	(1.104)	191916	26.3369	1320	
	56 2-Chloroethyl vinyl ether	63	7.286	7.285	(1.145)	303033	25.3671	1270	
	57 1-Bromr-2-chloroethana	144	7.286	7.285	(1.145)	20365	23.8809	1190	2460
	58 cis-1,3-Dichloropropene	75	7.345	7.344	(1.155)	278616	25.4984	1270	
	59 4-methyl-2-pentanone	43	7.438	7.437	(1.169)	258274	24.5708	1230	
$	60 Toluene-d8	98	7.510	7.510	(0.876)	925099	53.2536	2660	
	61 Toluene +	91	7.557	7.556	(0.881)	624922	25.9425	1300	
	62 trans-1,3-Dichloropropene	75	7.755	7.754	(0.904)	260755	26.5263	1330	
	65 1,1,2-Trichloroethane	97	7.894	7.893	(0.921)	122479	25.8517	1290	
	66 Tetrachloroethene	164	7.940	7.939	(0.926)	92487	25.4972	1270	
	67 1,3-Dichloropropane	76	8.019	8.025	(0.935)	279110	26.1337	1310	
	68 2-Hexanone	43	8.033	8.032	(0.937)	185716	26.1528	1310	
	69 Dibromochloromethane	129	8.171	8.171	(0.953)	120486	25.4155	1270	
	70 1,2-Dibromoethane(EDB)	107	8.284	8.283	(0.966)	117876	25.2084	1260	
*	71 CHLOROBENZENE-d5	82	8.575	8.574	(1.000)	462907	50.0000		
	72 Chlorobenzene ++	112	8.601	8.600	(1.003)	365287	25.3144	1270	
	73 Ethylbenzene +	106	8.627	8.627	(1.006)	193168	25.6258	1280	
	74 1,1,1,2-Tetrachloroethane	133	8.647	8.646	(1.008)	111645	26.3023	1320	
	75 p,m-Xylene	106	8.707	8.706	(1.015)	510323	53.3029	2670	
	76 o-Xylene	106	8.998	8.997	(1.049)	244127	26.3967	1320	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)	SIMILARITY
77 Styrene	104	9.011	9.010	(1.051)	449677	26.5582	1330	
78 Bromoform ++	173	9.189	9.189	(1.072)	73955	25.3220	1270	
79 Isopropylbenzene	105	9.222	9.222	(1.076)	639132	26.7215	1340	
$ 80 Bromofluorobenzene	174	9.381	9.380	(1.094)	246307	48.9333	2450	
81 1,1,2,2-Tetrachloroethane++	83	9.467	9.466	(0.934)	186062	25.0512	1250	
84 Bromobenzene	77	9.500	9.499	(0.937)	430397	26.6790	1330	
83 trans-1,4-Dichloro-2-Butene	53	9.507	9.506	(0.937)	68605	27.5973	1380	
85 1,2,3-Trichloropropane	75	9.520	9.519	(0.939)	253085	26.5435	1330	
86 n-Propylbenzene	91	9.493	9.493	(0.936)	902195	26.6858	1330	
87 2-Chlorotoluene	91	9.599	9.598	(0.947)	582219	26.5056	1330	
88 1,3,5-Trimethylbenzene	105	9.599	9.605	(0.947)	544783	26.5460	1330	
90 4-Chlorotoluene	91	9.672	9.671	(0.954)	544994	26.2116	1310	
91 tert-butylbenzene	91	9.824	9.823	(0.969)	400603	26.4321	1320	
92 p-Isopropyltoluene	119	10.042	10.041	(0.990)	558913	26.1666	1310	
93 1,2,4-Trimethylbenzene	105	9.857	9.863	(0.972)	571127	26.3865	1320	
94 sec-Butylbenzene	105	9.963	9.962	(0.982)	729339	26.0420	1300	
96 1,3-Dichlorobenzene	146	10.102	10.101	(0.996)	285077	25.5916	1280	
* 97 1,4-DICHLOROBENZENE-D4	152	10.141	10.140	(1.000)	343196	50.0000		
98 1,4-Dichlorobenzene	146	10.161	10.160	(1.002)	298077	25.4756	1270	
M 99 TOTAL XYLENE	106				754450	79.6996	3980	
100 n-Butylbenzene	91	10.306	10.306	(1.016)	626422	26.3013	1320	
102 1,2-Dichlorobenzene	146	10.412	10.411	(1.027)	273745	25.6463	1280	
106 1,2-Dibromo-3-Chloropropane	157	10.934	10.940	(1.078)	27391	25.4162	1270	
108 1,2,4-Trichlorobenzene	180	11.470	11.469	(1.131)	157524	24.3396	1220	
109 Hexachlorobutadiene	225	11.516	11.515	(1.136)	75173	25.5842	1280	
110 Naphthalene	128	11.675	11.674	(1.151)	389010	25.3320	1270	
111 1,2,3-Trichlorobenzene	180	11.840	11.846	(1.168)	143121	24.5833	1230	

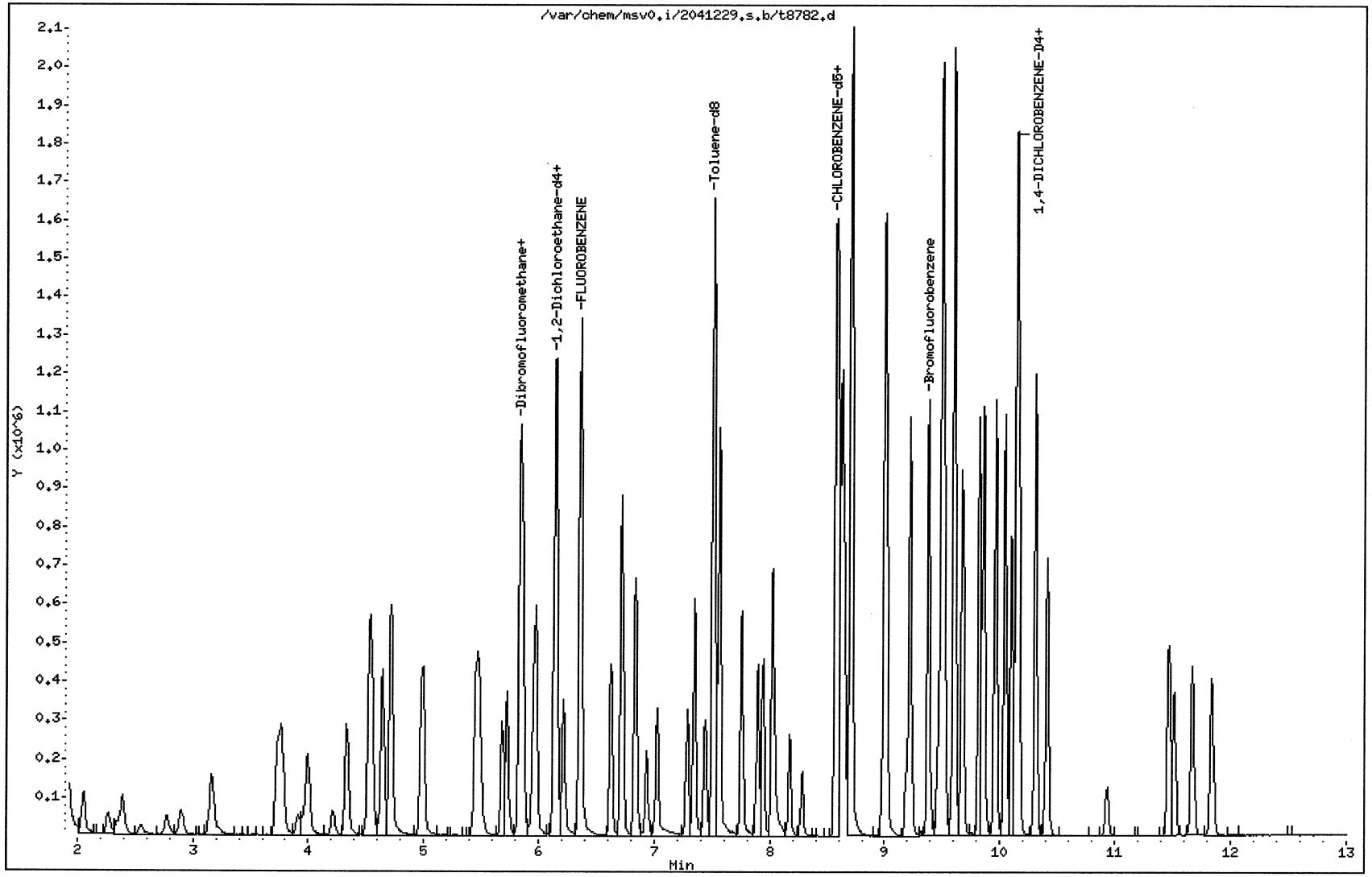
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv0.i/2041229.s.b/t8782.d
Date : 29-DEC-2004 10:21
Client ID: LCSD FOR HBN 285454
Sample Info: 214625*LCSD FOR HBN 285454
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KCB
Column diameter: 0.53

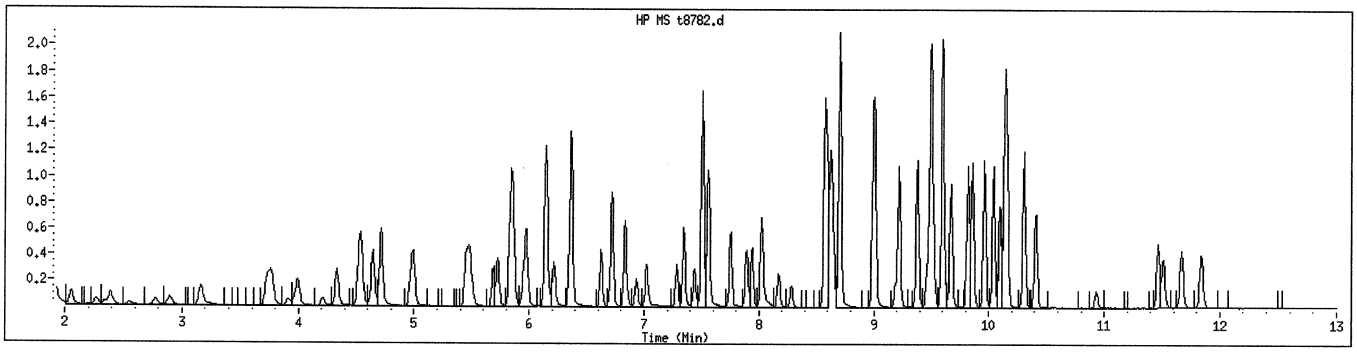


000258

Data file : /var/chem/msv0.i/2041229.s.b/t8782.d
Report Date: 12/29/2004 10:19

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 214625	SampleType	: LCSD
Injection Date	: 29-DEC-2004 10:21	Instrument	: msv0.i
Operator	: KCB		
Sample Info	: 214625*LCSD FOR HBN 285454		
Misc Info	: MSV~5636~*50*KCB		
Method	: /var/chem/msv0.i/2041229.s.b/8260Bw0.m		
Dilution	: 50.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



NO MANUAL INTEGRATIONS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
LCSD215155

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215155

Level: (low/med) LOW Lab File ID: 2041231/T3263

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1413

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-00-3	Chloroethane	23.1		0.606	5.00
71-55-6	1,1,1-Trichloroethane	25.6		0.123	5.00
79-34-5	1,1,2,2-Tetrachloroethane	28.3		0.180	5.00
79-00-5	1,1,2-Trichloroethane	23.5		0.114	5.00
75-34-3	1,1-Dichloroethane	25.0		0.159	5.00
75-35-4	1,1-Dichloroethene	26.8		0.359	5.00
120-82-1	1,2,4-Trichlorobenzene	31.4		0.327	5.00
96-12-8	1,2-Dibromo-3-chloropropane	32.6		0.866	5.00
106-93-4	1,2-Dibromoethane	23.3		0.150	5.00
95-50-1	1,2-Dichlorobenzene	27.6		0.114	5.00
107-06-2	1,2-Dichloroethane	25.4		0.114	5.00
78-87-5	1,2-Dichloropropane	23.9		0.112	5.00
541-73-1	1,3-Dichlorobenzene	26.5		0.236	5.00
106-46-7	1,4-Dichlorobenzene	27.6		0.421	5.00
78-93-3	2-Butanone	21.2		0.312	5.00
591-78-6	2-Hexanone	25.3		0.826	5.00
108-10-1	4-Methyl-2-pentanone	27.2		0.173	5.00
67-64-1	Acetone	25.0		0.374	25.0
71-43-2	Benzene	24.6		0.104	5.00
75-27-4	Bromodichloromethane	24.4		0.135	5.00
75-25-2	Bromoform	23.7		0.169	5.00
74-83-9	Bromomethane	30.1		1.51	5.00
75-15-0	Carbon disulfide	26.2		0.109	5.00
56-23-5	Carbon tetrachloride	25.2		0.120	5.00
108-90-7	Chlorobenzene	24.3		0.165	5.00
67-66-3	Chloroform	25.2		0.141	5.00
74-87-3	Chloromethane	25.9		0.464	5.00
110-82-7	Cyclohexane	23.8		1.11	5.00
124-48-1	Dibromochloromethane	25.7		0.090	5.00
75-71-8	Dichlorodifluoromethane	24.6		0.364	5.00
10061-01-5	cis-1,3-Dichloropropene	24.5		0.115	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD215155

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) g Lab Sample ID: 215155

Level: (low/med) LOW Lab File ID: 2041231/T3263

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 12/31/04 Time: 1413

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285580

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	25.8		0.141	5.00
100-41-4	Ethylbenzene	25.0		0.207	5.00
98-82-8	Isopropylbenzene (Cumene)	24.5		0.153	5.00
79-20-9	Methyl Acetate	25.7		1.53	5.00
108-87-2	Methylcyclohexane	25.8		0.370	5.00
75-09-2	Methylene chloride	24.4		0.479	10.0
100-42-5	Styrene	24.7		0.152	5.00
127-18-4	Tetrachloroethene	23.7		0.192	5.00
108-88-3	Toluene	24.4		0.550	5.00
79-01-6	Trichloroethene	24.1		0.177	5.00
75-69-4	Trichlorofluoromethane	25.7		0.252	5.00
76-13-1	Trichlorotrifluoroethane	26.0		0.188	5.00
75-01-4	Vinyl chloride	25.0		0.351	2.00
1330-20-7	Xylene (total)	77.1		0.572	10.0
156-59-2	cis-1,2-Dichloroethene	17.8		0.126	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	25.2		0.074	5.00
156-60-5	trans-1,2-Dichloroethene	26.1		0.164	5.00

GCAL, Inc.

Data file : /var/chem/msv4.i/2041231.s.b/t3263.d
Lab Smp Id: 215155 Client Smp ID: LCSD FOR HBN 285580
Inj Date : 31-DEC-2004 14:13
Operator : MEF Inst ID: msv4.i
Smp Info : 215155*LCSD FOR HBN 285580
Misc Info : MSV~5645~*1*MEF
Comment :
Method : /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Meth Date : 04-Jan-2005 08:48 rjo Quant Type: ISTD
Cal Date : 31-DEC-2004 12:00 Cal File: t3259.d
Als bottle: 12 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/Ws)/((100-M)/100) * CpndVariable

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

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
1 Dichlorodifluoromethane	85	1.677	1.655	(0.319)	78789	24.5678	24.6	4210
2 Chloromethane ++	50	1.797	1.781	(0.342)	83459	25.9442	25.9	7044
3 Vinyl Chloride +	62	1.857	1.842	(0.354)	70829	25.0130	25.0	7202
5 Bromomethane	94	2.062	2.040	(0.393)	12119	30.0883	30.1	8173
6 Chloroethane	64	2.158	2.125	(0.411)	4394	23.0853	23.1	0(M)
7 Trichlorofluoromethane	101	2.260	2.227	(0.430)	33941	25.7241	25.7	8864
13 Acrolein	56	2.910	2.895	(0.554)	22598	144.514	145	8177
11 1,1,2Trichlotrifluoroethane	101	2.676	2.648	(0.509)	33884	25.9932	26.0	8652
9 1,1-Dichloroethene +	96	2.628	2.600	(0.500)	28389	26.7978	26.8	8373
16 Acetone	43	3.187	3.160	(0.607)	19343	24.9872	25.0	7909
12 Methyl Iodide	142	2.742	2.720	(0.522)	36459	25.6075	25.6	7564
10 Carbon Disulfide	76	2.658	2.630	(0.506)	109437	26.1913	26.2	7635
15 Methylene Chloride	49	3.121	3.100	(0.594)	46130	24.3822	24.4	8860

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
	27 Acrylonitrile	53	3.831	3.816	(0.730)	69777	140.739	141	9122
	17 trans-1,2-Dichloroethene	61	3.260	3.238	(0.621)	48211	26.1289	26.1	8829
	20 MTBE	73	3.380	3.358	(0.644)	99362	25.2261	25.2	8762
	19 Hexane	57	3.338	3.316	(0.636)	62091	26.5771	26.6	9079
	28 Vinyl Acetate	43	4.018	4.002	(0.765)	78675	28.6151	28.6	
	25 1,1-Dichloroethane ++	63	3.783	3.762	(0.720)	67399	24.9640	25.0	9083
	39 2-Butanone	43	4.728	4.713	(0.900)	69364	21.1604	21.2	
M	63 Total 1,2-Dichloroethene	61				101760	41.9949	42.0	0
	29 cis-1,2-Dichloroethene	61	4.235	4.219	(0.806)	53549	17.8427	17.8	9483
	30 2,2-Dichloropropane	77	4.319	4.303	(0.822)	70107	19.6228	19.6	9250
	31 Bromochloromethane	128	4.391	4.382	(0.836)	31221	24.4439	24.4	9396
	33 Chloroform +	83	4.457	4.448	(0.849)	123020	25.2118	25.2	9249
$	36 Dibromofluoromethane	111	4.602	4.592	(0.876)	130805	52.4621	52.5	9157
	37 1,1,1-Trichloroethane	97	4.626	4.610	(0.881)	95526	25.6025	25.6	7926
	40 1,1-Dichloropropene	75	4.722	4.707	(0.899)	100623	25.8863	25.9	8571
	35 Carbon Tetrachloride	117	4.572	4.556	(0.870)	88074	25.2010	25.2	8874
$	43 1,2-Dichloroethane-d4	67	5.023	5.007	(0.956)	78582	49.5381	49.5	9629
	45 1,2-Dichloroethane	62	5.077	5.062	(0.967)	89184	25.4427	25.4	9210
	42 Benzene	78	4.921	4.905	(0.937)	318078	24.6455	24.6	9744
*	47 FLUOROBENZENE	96	5.252	5.242	(1.000)	545833	50.0000		9722
	49 Trichloroethene	130	5.384	5.381	(1.025)	68356	24.1142	24.1	9433
	52 1,2-Dichloropropane +	63	5.787	5.778	(1.102)	83882	23.9450	23.9	9698
	57 2-Chloroethyl vinyl ether	63	6.209	6.199	(1.182)	120411	23.9021	23.9	4289(MH)
	56 1-Bromo-2-chloroethane	63	6.209	6.199	(1.182)	120422	23.6424	23.6	9010
	51 Dibromomethane	93	5.709	5.700	(1.087)	42673	24.5626	24.6	9250
	54 Bromodichloromethane	83	5.842	5.832	(1.112)	89321	24.3650	24.4	9642
	48 Methyl cyclohexane	83	5.378	5.363	(1.024)	122464	25.8129	25.8	9495
	58 cis-1,3-Dichloropropene	75	6.335	6.326	(1.206)	124063	24.4883	24.5	
	64 4-methyl-2-pentanone	43	6.823	6.813	(1.299)	95545	27.1793	27.2	
$	59 Toluene-d8	98	6.486	6.476	(0.843)	501675	51.4955	51.5	9879
	60 Toluene +	91	6.522	6.518	(0.848)	290194	24.4382	24.4	9632
	67 trans-1,3-Dichloropropene	75	6.841	6.837	(1.303)	114120	25.7912	25.8	
M	74 1-3 Dichloropropene-Total	100				238183	25.0957	25.1	0
	68 1,1,2-Trichloroethane	97	6.967	6.957	(0.906)	58303	23.4905	23.5	9822
	72 1,3-Dichloropropane	76	7.172	7.168	(0.933)	114097	23.9001	23.9	9417
	75 2-Hexanone	43	7.473	7.463	(0.972)	73102	25.2732	25.3	9404
	66 Tetrachloroethene	164	6.829	6.819	(0.888)	40318	23.6553	23.7	8841
	71 Dibromochloromethane	129	7.105	7.102	(0.924)	56587	25.6516	25.7	9345
	73 1,2-Dibromoethane(EDB)	107	7.286	7.282	(0.948)	53636	23.3142	23.3	9098
*	77 Chlorobenzene-d5	82	7.689	7.686	(1.000)	204754	50.0000		9026
	78 Chlorobenzene ++	112	7.701	7.698	(1.002)	172988	24.2638	24.3	6655
	80 1,1,1,2-Tetrachloroethane	133	7.755	7.752	(1.009)	50516	23.8040	23.8	9097
	79 Ethylbenzene +	91	7.725	7.728	(1.005)	308081	25.0012	25.0	9374
	81 p,m-Xylene	106	7.840	7.830	(1.020)	233541	53.4405	53.4	9728(H)
	83 o-Xylene	106	8.183	8.179	(1.064)	105473	23.6831	23.7	
	84 Styrene	104	8.225	8.221	(1.070)	187271	24.7006	24.7	9667
	85 Bromoform ++	173	8.243	8.239	(1.072)	29959	23.7251	23.7	6888

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
87 Isopropylbenzene	105	8.436	8.432	(1.097)	271731	24.4855	24.5	9748
$ 89 Bromofluorobenzene	174	8.664	8.661	(1.127)	84396	45.8247	45.8	9253
92 1,1,2,2-Tetrachloroethane++	83	8.821	8.817	(0.921)	79230	28.3104	28.3	9567
96 trans-1,4-Dichloro-2-Butene	53	8.959	8.962	(0.935)	28344	32.4228	32.4	8949
95 1,2,3-Trichloropropane	75	8.929	8.920	(0.932)	101675	30.6028	30.6	9385
90 Bromobenzene	77	8.749	8.745	(0.913)	126691	28.1542	28.2	8257
91 n-Propylbenzene	91	8.767	8.769	(0.915)	351144	28.4594	28.5	9233
93 2-Chlorotoluene	91	8.899	8.895	(0.929)	222866	27.9626	28.0	9411
94 1,3,5-Trimethylbenzene	105	8.929	8.932	(0.932)	231983	29.5746	29.6	
97 4-Chlorotoluene	91	9.031	9.034	(0.943)	194761	27.6392	27.6	9566
M 113 TOTAL XYLENE	106				339014	77.0852	77.1	0
99 tert-butylbenzene	91	9.188	9.184	(0.959)	136663	29.3198	29.3	9626
100 1,2,4-Trimethylbenzene	105	9.248	9.245	(0.965)	219853	28.8793	28.9	
102 sec-Butylbenzene	105	9.332	9.335	(0.974)	295181	28.3500	28.3	
103 p-Isopropyltoluene	119	9.453	9.449	(0.987)	226902	28.7344	28.7	9715
104 1,3-Dichlorobenzene	146	9.519	9.515	(0.994)	95001	26.5057	26.5	
* 105 1,4-DICHLOROBENZENE-D4	152	9.579	9.582	(1.000)	108319	50.0000		8012
106 1,4-Dichlorobenzene	146	9.591	9.594	(1.001)	104069	27.5780	27.6	
109 n-Butylbenzene	91	9.802	9.798	(1.023)	231463	29.2012	29.2	9695
110 1,2-Dichlorobenzene	146	9.946	9.943	(1.038)	88933	27.5594	27.6	
112 1,2-Dibromo-3-Chloropropane	157	10.632	10.629	(1.110)	10241	32.6498	32.6	8323
115 1,2,4-Trichlorobenzene	180	11.282	11.273	(1.178)	41364	31.4459	31.4	
114 Hexachlorobutadiene	225	11.252	11.249	(1.175)	24304	30.5850	30.6	9697
116 Napthalene	128	11.607	11.598	(1.212)	94255	34.5974	34.6	9506(R)
117 1,2,3-Trichlorobenzene	180	11.794	11.790	(1.231)	36747	33.1492	33.1	(R)
32 Cyclohexane	56	4.397	4.382	(0.837)	106418	23.8293	23.8	9543
18 Methyl Acetate	43	3.332	3.304	(0.634)	73338	25.7067	25.7	0(M)

QC Flag Legend

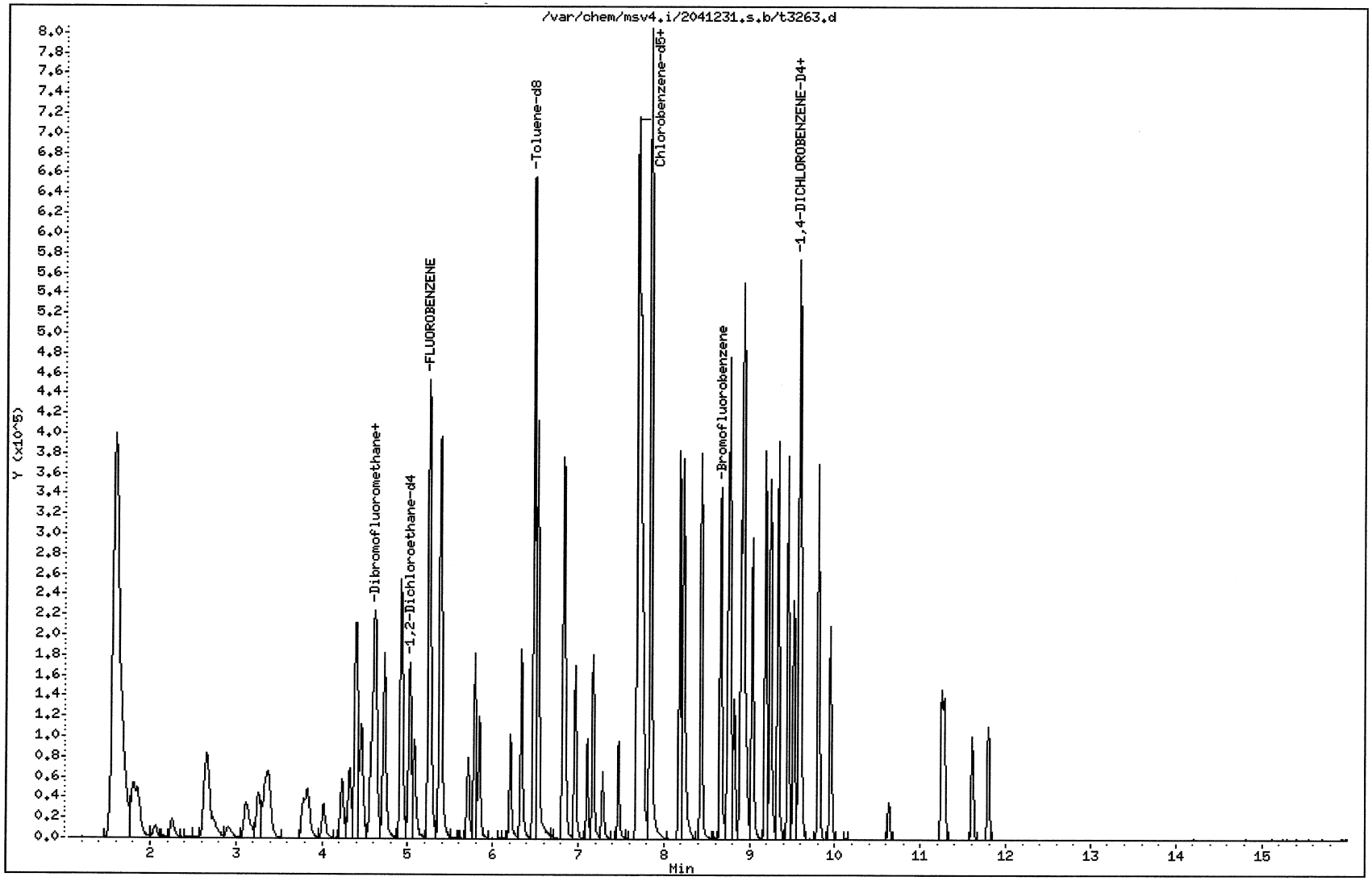
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv4.i/2041231.s.b/t3263.d
Date : 31-DEC-2004 14:13
Client ID: LCSD FOR HBN 285580
Sample Info: 215155*LCSD FOR HBN 285580

Column phase: DB-624-30M

Instrument: msv4.i

Operator: MEF
Column diameter: 0.53

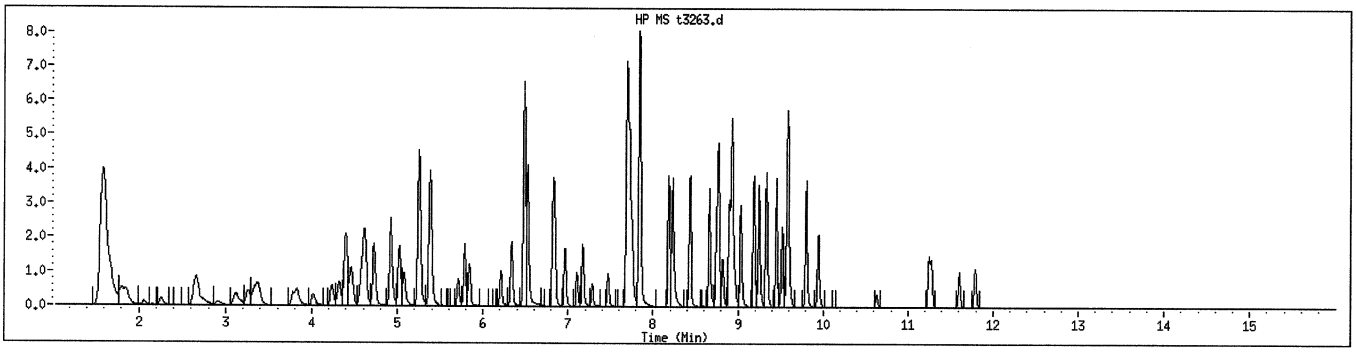


000265

Data file : /var/chem/msv4.i/2041231.s.b/t3263.d
Report Date: 01/04/2005 08:48

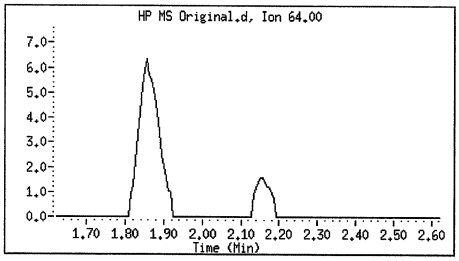
MANUAL INTEGRATION GRAPHIC REPORT

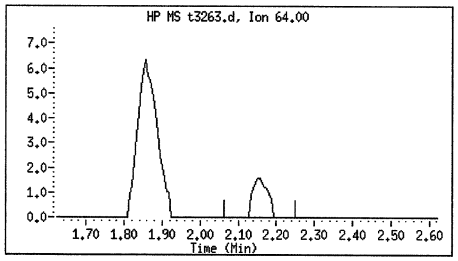
Lab ID	: 215155	SampleType	: LCSD
Injection Date	: 31-DEC-2004 14:13	Instrument	: msv4.i
Operator	: MEF		
Sample Info	: 215155*LCSD FOR HBN 285580		
Misc Info	: MSV~5645~*1*MEF		
Method	: /var/chem/msv4.i/2041231.s.b/8260Bs4.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b



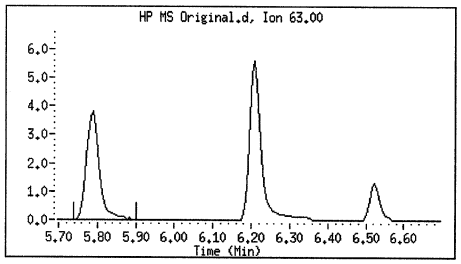
Original | Final

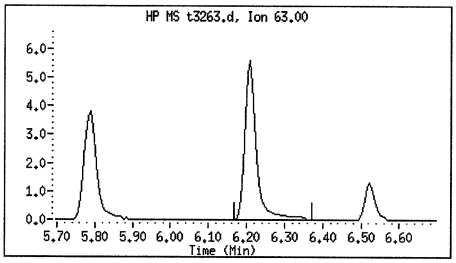
6 Chloroethane CAS#: 75-00-3





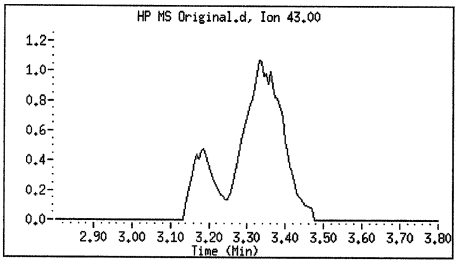
57 2-Chloroethyl vinyl ether CAS#: 110-75-8

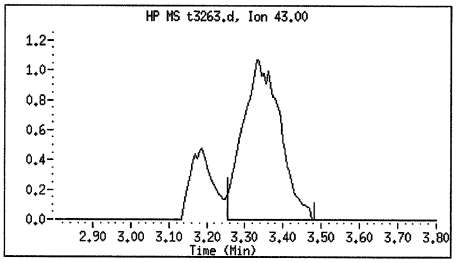




Original | Final

18 Methyl Acetate CAS#: 79-20-9





Data File: /var/chem/msv4.i/2041231.s.b/t3263.d
Report Date: 04-Jan-2005 08:48

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msv4.i
Lab File ID: t3263.d
Lab Smp Id: 215155
Analysis Type: VOA
Quant Type: ISTD
Operator: MEF
Method File: /var/chem/msv4.i/2041231.s.b/8260Bs4.m
Misc Info: MSV~5645~*1*MEF

Calibration Date: 31-DEC-2004
Calibration Time: 11:15
Client Smp ID: LCSD FOR HBN 285580
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 3

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
47 FLUOROBENZENE	522698	261349	1045396	545833	4.43
77 Chlorobenzene-d5	191293	95646	382586	204754	7.04
105 1,4-DICHLOROBENZE	129686	64843	259372	108319	-16.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
47 FLUOROBENZENE	5.24	4.74	5.74	5.25	0.18
77 Chlorobenzene-d5	7.69	7.19	8.19	7.69	0.05
105 1,4-DICHLOROBENZE	9.58	9.08	10.08	9.58	-0.03

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.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD215364

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

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

Lab Sample ID: 215364

Level: (low/med) LOW

Lab File ID: 2041230/S6938

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV3

Date Analyzed: 12/30/04 Time: 1748

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 285627

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	26.4		0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	23.6		0.200	0.200
79-00-5	1,1,2-Trichloroethane	25.0		0.851	5.00
75-34-3	1,1-Dichloroethane	26.0		0.822	5.00
75-35-4	1,1-Dichloroethene	28.1		0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	33.8		0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	24.2		0.200	0.200
106-93-4	1,2-Dibromoethane	25.3		0.200	0.200
95-50-1	1,2-Dichlorobenzene	26.7		0.531	5.00
107-06-2	1,2-Dichloroethane	24.7		0.821	3.00
78-87-5	1,2-Dichloropropane	25.7		0.200	5.00
541-73-1	1,3-Dichlorobenzene	27.2		0.686	5.00
106-46-7	1,4-Dichlorobenzene	26.4		0.471	5.00
78-93-3	2-Butanone	24.7		0.817	10.0
591-78-6	2-Hexanone	27.5		0.833	10.0
108-10-1	4-Methyl-2-pentanone	25.4		0.820	10.0
67-64-1	Acetone	21.4		0.932	10.0
71-43-2	Benzene	25.5		0.836	1.00
75-27-4	Bromodichloromethane	24.3		0.600	0.600
75-25-2	Bromoform	25.7		0.742	4.00
74-83-9	Bromomethane	37.6		0.962	5.00
75-15-0	Carbon disulfide	27.0		0.764	5.00
56-23-5	Carbon tetrachloride	26.6		0.848	3.00
108-90-7	Chlorobenzene	25.8		0.713	5.00
75-00-3	Chloroethane	26.5		0.820	5.00
67-66-3	Chloroform	25.3		0.919	5.00
74-87-3	Chloromethane	24.0		0.823	2.70
110-82-7	Cyclohexane	25.3		1.00	5.00
124-48-1	Dibromochloromethane	25.4		0.400	0.400
75-71-8	Dichlorodifluoromethane	27.2		0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	24.7		0.757	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD215364

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 215364

Level: (low/med) LOW Lab File ID: 2041230/S6938

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 12/30/04 Time: 1748

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 285627

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	24.4		0.633	5.00
100-41-4	Ethylbenzene	26.0		0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	27.6		0.558	0.800
79-20-9	Methyl Acetate	21.4		1.00	5.00
108-87-2	Methylcyclohexane	26.4		1.00	5.00
75-09-2	Methylene chloride	25.2		0.748	5.00
100-42-5	Styrene	26.0		0.699	5.00
127-18-4	Tetrachloroethene	27.7		0.692	3.00
108-88-3	Toluene	25.3		0.678	5.00
79-01-6	Trichloroethene	25.3		0.989	3.00
75-69-4	Trichlorofluoromethane	22.2		0.926	5.00
76-13-1	Trichlorotrifluoroethane	28.1		0.480	5.00
75-01-4	Vinyl chloride	24.4		1.00	1.00
1330-20-7	Xylene (total)	79.4		2.24	5.00
156-59-2	cis-1,2-Dichloroethene	25.4		0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	25.3		0.531	5.00
156-60-5	trans-1,2-Dichloroethene	26.7		0.735	5.00

GCAL, Inc.

Data file : /var/chem/msv3.i/2041230.s.b/s6938.d
Lab Smp Id: 215364 Client Smp ID: LCSD FOR HBN 285627
Inj Date : 30-DEC-2004 17:48
Operator : RJO Inst ID: msv3.i
Smp Info : 215364*LCSD FOR HBN 285627
Misc Info : MSV~5648~*1*RJO
Comment :
Method : /var/chem/msv3.i/2041230.s.b/8260Bw3.m
Meth Date : 31-Dec-2004 08:41 rjo Quant Type: ISTD
Cal Date : 30-DEC-2004 15:01 Cal File: s6933.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.599	1.592	(0.341)	449832	27.2278	27.2	9388
2 Chloromethane ++	50	1.776	1.775	(0.379)	260317	24.0130	24.0	8625
3 Vinyl Chloride +	62	1.856	1.849	(0.396)	337692	24.4173	24.4	9179
5 Bromomethane	94	2.131	2.124	(0.454)	264440	37.5954	37.6	9379
6 Chloroethane	64	2.206	2.193	(0.470)	114786	26.4617	26.5	8868
7 Trichlorofluoromethane	101	2.778	2.393	(0.592)	415545	22.1621	22.2	9056
9 Acrolein	56	2.715	2.696	(0.579)	155224	144.629	145	8358
10 1,1,2Trichlotrifluoroethane	101	2.778	2.765	(0.592)	415545	28.1428	28.1	8250
11 1,1-Dichloroethene +	96	2.778	2.771	(0.592)	357621	28.1180	28.1	8242
12 Acetone	43	2.829	2.811	(0.603)	103714	21.3944	21.4	(a)
13 Methyl Iodide	142	2.887	2.879	(0.616)	789418	27.9056	27.9	9431
14 Carbon Disulfide	76	2.950	2.937	(0.629)	1226096	27.0437	27.0	9443
17 Methyl Acetate	43	3.453	3.017	(0.736)	129818	21.3629	21.4	8955
18 Methylene Chloride	49	3.087	3.080	(0.658)	353440	25.2151	25.2	8381
20 Acrylonitrile	53	3.253	3.246	(0.694)	526677	122.141	122	8103

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	21 MTBE	73	3.282	3.274	(0.700)	943174	25.2825	25.3	8737
	22 trans-1,2-Dichloroethene	61	3.282	3.274	(0.700)	461811	26.7270	26.7	
	24 Hexane	57	3.493	3.480	(0.745)	420517	25.5749	25.6	9087
	25 Vinyl Acetate	43	3.568	3.560	(0.761)	609850	25.1469	25.1	
	26 1,1-Dichloroethane ++	63	3.551	3.549	(0.757)	607108	25.9894	26.0	7480
M	30 Total 1,2-Dichloroethene	61				1012839	52.0325	52.0	0
	32 2-Butanone	43	3.928	3.921	(0.838)	144620	24.7226	24.7	(a)
	34 cis-1,2-Dichloroethene	61	3.923	3.915	(0.836)	551028	25.4491	25.4	
	35 2,2-Dichloropropane	77	3.934	3.927	(0.839)	566730	25.4520	25.5	8493
	37 Bromochloromethane	128	4.083	4.076	(0.871)	261290	25.4023	25.4	7280
	38 Chloroform +	83	4.117	4.116	(0.878)	717048	25.3316	25.3	8470
$	39 Dibromofluoromethane	111	4.220	4.219	(0.900)	1032483	51.1774	51.2	9190
	40 1,1,1-Trichloroethane	97	4.266	4.264	(0.910)	670831	26.4240	26.4	8484
	42 Cyclohexane	56	4.323	4.316	(0.922)	488132	25.3307	25.3	8858
	43 1,1-Dichloropropene	75	4.380	4.373	(0.934)	521510	25.7183	25.7	8012
	44 Carbon Tetrachloride	117	4.386	4.379	(0.935)	556167	26.5948	26.6	7937
$	45 1,2-Dichloroethane-d4	67	4.455	4.453	(0.950)	484958	47.4945	47.5	8662
	46 1,2-Dichloroethane	62	4.506	4.499	(0.961)	538144	24.7238	24.7	7950
	47 Benzene	78	4.524	4.522	(0.965)	1495434	25.4566	25.5	8777
*	48 FLUOROBENZENE	96	4.690	4.688	(1.000)	3367386	50.0000		8748
	49 Trichloroethene	130	4.936	4.928	(1.052)	540927	25.3050	25.3	8644
	51 Methyl Cyclohexane	83	5.084	5.083	(1.084)	703957	26.4128	26.4	8608
	52 1,2-Dichloropropane +	63	5.084	5.083	(1.084)	364166	25.6905	25.7	8382
	55 Dibromomethane	93	5.165	5.157	(1.101)	324477	25.6137	25.6	7621
	56 Bromodichloromethane	83	5.250	5.249	(1.120)	576274	24.3253	24.3	8903
	57 2-Chloroethyl vinyl ether	63	5.434	5.432	(1.159)	214255	23.0983	23.1	9067
	58 1-Bromo-2-chloroethane	63	5.502	5.495	(1.173)	525352	24.1465	24.1	8377
	59 cis-1,3-Dichloropropene	75	5.571	5.569	(1.188)	663884	24.6638	24.7	
	60 4-methyl-2-pentanone	43	5.657	5.655	(1.206)	314444	25.4095	25.4	
$	61 Toluene-d8	98	5.794	5.798	(1.236)	3374059	51.5449	51.5	9046
	62 Toluene +	91	5.851	5.850	(1.248)	1871184	25.3298	25.3	8141
	63 trans-1,3-Dichloropropene	75	5.977	5.981	(1.275)	658127	24.4000	24.4	
M	138 Total-1-3 Dichloropropene	100				1322011	49.2114	49.2	0
	65 1,1,2-Trichloroethane	97	6.138	6.136	(0.874)	407561	25.0215	25.0	9122
	66 1,3-Dichloropropane	76	6.286	6.285	(0.896)	620111	25.3579	25.4	7330
	67 Tetrachloroethene	164	6.298	6.302	(0.897)	478138	27.7128	27.7	6526
	68 2-Hexanone	43	6.309	6.313	(0.899)	239382	27.4866	27.5	
	69 Dibromochloromethane	129	6.492	6.491	(0.925)	598917	25.3879	25.4	8691
	70 1,2-Dibromoethane(EDB)	107	6.613	6.617	(0.942)	483893	25.2802	25.3	9697
*	71 CHLOROBENZENE-d5	82	7.019	7.023	(1.000)	1427385	50.0000		6019
	72 Chlorobenzene ++	112	7.053	7.052	(1.005)	1335012	25.7561	25.8	7513
	73 1,1,1,2-Tetrachloroethane	133	7.105	7.109	(1.012)	491384	25.5558	25.6	7777
	74 Ethylbenzene +	106	7.133	7.132	(1.016)	693372	26.0382	26.0	
	75 p,m-Xylene	106	7.236	7.241	(1.031)	1697310	53.0798	53.1	
	76 o-Xylene	106	7.643	7.641	(1.089)	832594	26.2834	26.3	
	77 Styrene	104	7.649	7.653	(1.090)	1456491	26.0006	26.0	9108
M	78 TOTAL XYLENE	106				2529904	79.3647	79.4	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
79 Bromoform ++	173	7.855	7.859	(1.119)	454448	25.7107	25.7	8468
80 Isopropylbenzene	105	8.015	8.013	(1.142)	2171212	27.6285	27.6	9001
$ 82 Bromofluorobenzene	174	8.198	8.196	(1.168)	1296183	51.7538	51.8	8269
83 1,1,2,2-Tetrachloroethane++	83	8.307	8.305	(0.869)	495109	23.6362	23.6	8947
84 trans-1,4-Dichloro-2-Butene	53	8.370	8.368	(0.876)	107956	23.6738	23.7	7783
85 1,2,3-Trichloropropane	75	8.375	8.374	(0.877)	602720	24.1867	24.2	7762
86 Bromobenzene	77	8.381	8.379	(0.877)	941197	25.0066	25.0	8533
87 n-Propylbenzene	91	8.467	8.471	(0.886)	2497106	27.0376	27.0	
88 2-Chlorotoluene	91	8.593	8.591	(0.899)	1654035	26.7892	26.8	
89 1,3,5-Trimethylbenzene	105	8.656	8.666	(0.906)	1677488	27.9183	27.9	8978(H)
90 4-Chlorotoluene	91	8.707	8.717	(0.911)	1661091	26.1014	26.1	
91 tert-butylbenzene	91	9.051	9.055	(0.947)	1291189	27.2211	27.2	8612
93 1,2,4-Trimethylbenzene	105	9.108	9.112	(0.953)	1593221	28.1633	28.2	
94 sec-Butylbenzene	105	9.314	9.324	(0.975)	2422492	27.7565	27.8	
95 p-Isopropyltoluene	119	9.486	9.490	(0.993)	1912343	28.7311	28.7	8834
96 1,3-Dichlorobenzene	146	9.480	9.484	(0.992)	1247455	27.2046	27.2	
* 97 1,4-DICHLOROBENZENE-D4	152	9.554	9.558	(1.000)	1558232	50.0000		5257
98 1,4-Dichlorobenzene	146	9.583	9.593	(1.003)	1231502	26.3629	26.4	
99 n-Butylbenzene	91	10.007	10.016	(1.047)	1555628	30.0488	30.0	9425
100 1,2-Dichlorobenzene	146	10.069	10.074	(1.054)	1173283	26.6858	26.7	
101 1,2-Dibromo-3-Chloropropane	157	11.088	11.092	(1.161)	153271	24.2087	24.2	8129
103 1,2,4-Trichlorobenzene	180	12.279	12.277	(1.285)	740548	33.8059	33.8	
104 Hexachlorobutadiene	225	12.513	12.517	(1.310)	651067	37.2851	37.3	8347(R)
105 Naphthalene	128	12.634	12.632	(1.322)	1214567	34.4695	34.5	8472
106 1,2,3-Trichlorobenzene	180	12.988	12.992	(1.359)	683138	34.4536	34.5	

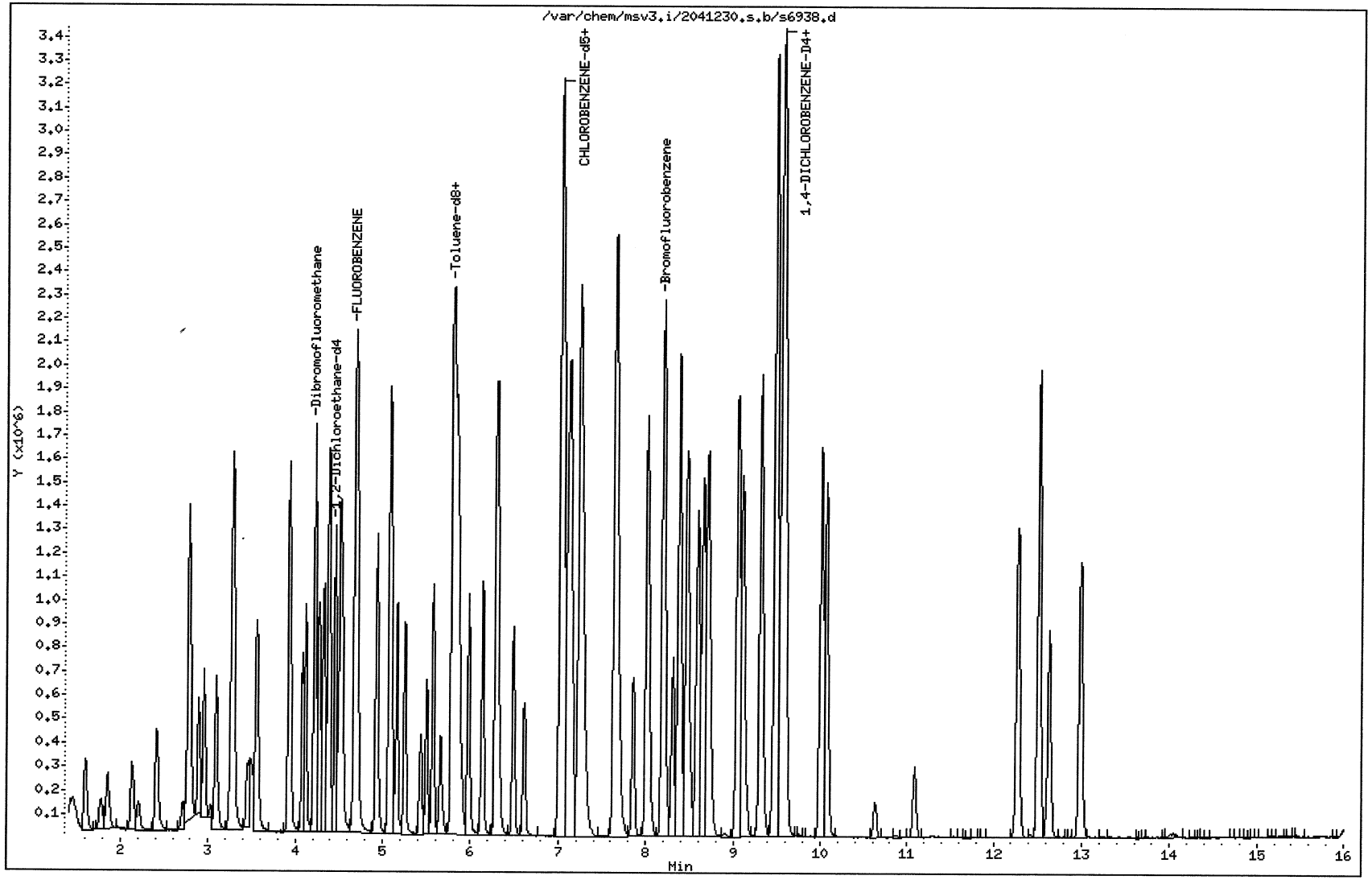
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv3.i/2041230.s.b/s6938.d
Date : 30-DEC-2004 17:48
Client ID: LCSD FOR HBN 285627
Sample Info: 215364*LCSD FOR HBN 285627
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RJO
Column diameter: 0.53

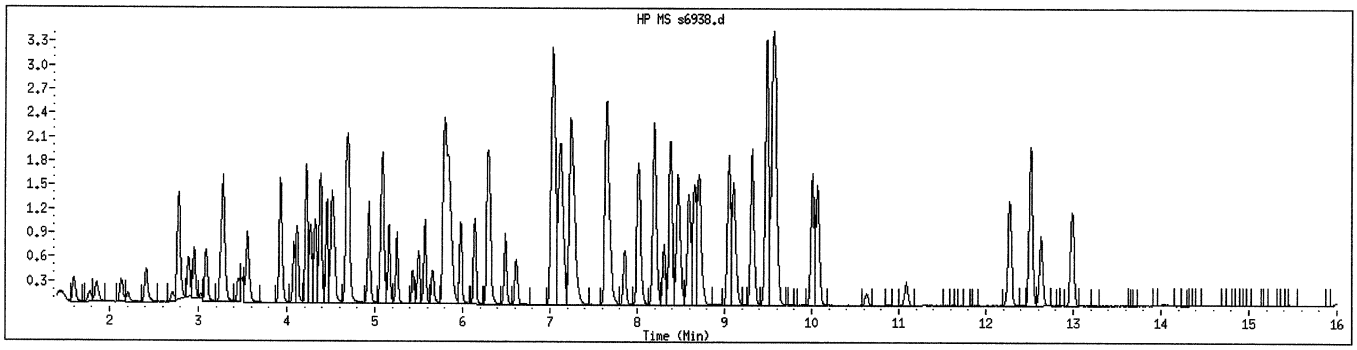


000274

Data file : /var/chem/msv3.i/2041230.s.b/s6938.d
Report Date: 12/31/2004 09:08

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 215364	SampleType	: LCS
Injection Date	: 30-DEC-2004 17:48	Instrument	: msv3.i
Operator	: RJO		
Sample Info	: 215364*LCSD FOR HBN 285627		
Misc Info	: MSV~5648~*1*RJO		
Method	: /var/chem/msv3.i/2041230.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8260



NO MANUAL INTEGRATIONS

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 27-DEC-2004
Instrument: msv0.i
Analyst(s): MEF

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-21-3
Ac/Ac/VA	250/50	5-23-4
CVE	50	5-23-5

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		t8719.d	0.00	27-DEC-2004 09:57	1.000	2
1000		t8720.d	0.00	27-DEC-2004 10:32	1.000	2
1000		t8721.d	0.00	27-DEC-2004 11:06	1.000	2
1000		t8722.d	0.00	27-DEC-2004 12:07	1.000	2
1206		t8723.d	5.00	27-DEC-2004 12:45	1.000	1
1201		t8724.d	5.00	27-DEC-2004 13:07	1.000	2
1202		t8725.d	5.00	27-DEC-2004 13:29	1.000	3
1203		t8726.d	5.00	27-DEC-2004 13:51	1.000	4
1204		t8727.d	5.00	27-DEC-2004 14:14	1.000	5
1205		t8728.d	5.00	27-DEC-2004 14:36	1.000	6
BLK		t8729.d	5.00	27-DEC-2004 14:59	1.000	7
1600		t8730.d	5.00	27-DEC-2004 15:21	1.000	8
214755		t8731.d	5.00	27-DEC-2004 16:02	1.000	9
214754		t8732.d	5.00	27-DEC-2004 16:25	1.000	10
214754		t8733.d	5.00	27-DEC-2004 16:47	1.000	11
20412232201		t8734.d	5.00	27-DEC-2004 17:09	40.000	12
214756		t8735ms.d	5.00	27-DEC-2004 17:32	40.000	13
214757		t8736msd.d	5.00	27-DEC-2004 17:55	40.000	14
BLK		t8737.d	5.00	27-DEC-2004 18:17	1.000	15
20412232202		t8738.d	5.00	27-DEC-2004 18:39	1.000	16
BLK		t8739.d	5.00	27-DEC-2004 19:02	1.000	17
20412232203		t8740.d	5.00	27-DEC-2004 19:24	10.000	18
BLK		t8741.d	5.00	27-DEC-2004 19:47	10.000	19
20412232204		t8742.d	5.00	27-DEC-2004 20:09	2.000	20
BLK		t8743.d	5.00	27-DEC-2004 20:31	2.000	21
20412232001		t8744.d	5.00	27-DEC-2004 20:54	1.000	22
BLK		t8745.d	5.00	27-DEC-2004 21:17	2.000	23
BLK		t8746.d	5.00	27-DEC-2004 21:40	2.000	24
BLK		t8747.d	5.00	27-DEC-2004 22:02	2.000	25
BLK		t8748.d	5.00	27-DEC-2004 22:25	2.000	26
BLK		t8749.d	5.00	27-DEC-2004 22:48	2.000	27

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 30-DEC-2004
Instrument: msv3.i
Analyst(s): RJO

Standard	Conc ppm
Int. Standard	50 5-23-7
Surrogate	50 5-20-6
8260	50 5-21-3
Ac/Ac/VA	250/50 5-23-4
CVE	50 5-23-5

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
BLANK		s6918.d	5.00	30-DEC-2004 09:03	1.000	1
BLANK		s6919.d	5.00	30-DEC-2004 09:24	1.000	2
BLANK		s6920.d	0.00	30-DEC-2004 09:46	1.000	3
BLANK		s6921.d	5.00	30-DEC-2004 10:08	1.000	4
BLANK		s6922.d	5.00	30-DEC-2004 10:30	1.000	5
1000		s6925BFB.d	0.00	30-DEC-2004 11:46	1.000	2
1206		s6926.d	5.00	30-DEC-2004 12:28	1.000	1
1201		s6927.d	5.00	30-DEC-2004 12:50	1.000	2
1202		s6928.d	5.00	30-DEC-2004 13:11	1.000	3
1207		s6929.d	5.00	30-DEC-2004 13:33	1.000	4
1208		s6930.d	5.00	30-DEC-2004 13:55	1.000	5
1203		s6931.d	5.00	30-DEC-2004 14:17	1.000	6
1204		s6932.d	5.00	30-DEC-2004 14:39	1.000	7
1205		s6933.d	5.00	30-DEC-2004 15:01	1.000	8
BLANK		s6934.d	5.00	30-DEC-2004 15:59	1.000	9
BLANK		s6935.d	5.00	30-DEC-2004 16:42	1.000	10
1600		s6936.d	5.00	30-DEC-2004 17:04	1.000	10
215363		s6937.d	5.00	30-DEC-2004 17:26	1.000	11
215364		s6938.d	5.00	30-DEC-2004 17:48	1.000	12
BLANK		s6939.d	5.00	30-DEC-2004 18:12	1.000	13
BLANK		s6940.d	5.00	30-DEC-2004 18:34	1.000	14
215362		s6941.d	5.00	30-DEC-2004 18:56	1.000	15
20412203605		s6942.d	5.00	30-DEC-2004 19:18	1.000	1
20412211906		s6943.d	5.00	30-DEC-2004 19:40	1.000	2
20412290202		s6944.d	5.00	30-DEC-2004 20:02	1.000	3
20412300207		s6945.d	5.00	30-DEC-2004 20:23	1.000	4
20412300208		s6946.d	5.00	30-DEC-2004 20:45	1.000	5
20412300209		s6947.d	5.00	30-DEC-2004 21:07	1.000	6
215371		s6948.d	5.00	30-DEC-2004 21:29	1.000	7
215372		s6949.d	5.00	30-DEC-2004 21:51	1.000	8
BLANK		s6950.d	5.00	30-DEC-2004 22:13	1.000	9
BLANK		s6951.d	5.00	30-DEC-2004 22:35	1.000	10
BLANK		s6952.d	5.00	30-DEC-2004 22:57	1.000	11

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 31-DEC-2004
Instrument: msv4.i
Analyst(s): MEF

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-21-3
Ac/Ac/VA	250/50	5-23-4
CVE	50	5-23-5

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
BLANK		t3252.d	5.00	31-DEC-2004 08:34	1.000	1
1000		t3253.d	0.00	31-DEC-2004 08:56	1.000	2
1206		t3254.d	5.00	31-DEC-2004 10:10	1.000	3
1201		t3255.d	5.00	31-DEC-2004 10:32	1.000	4
1202		t3256.d	5.00	31-DEC-2004 10:53	1.000	5
1203		t3257.d	5.00	31-DEC-2004 11:15	1.000	6
1204		t3258.d	5.00	31-DEC-2004 11:38	1.000	7
1205		t3259.d	5.00	31-DEC-2004 12:00	1.000	8
BLK		t3260.d	5.00	31-DEC-2004 12:22	1.000	9
1600		t3261.d	5.00	31-DEC-2004 12:44	1.000	10
LCS		t3262.d	5.00	31-DEC-2004 13:51	1.000	11
LCSD		t3263.d	5.00	31-DEC-2004 14:13	1.000	12
MB		t3264.d	5.00	31-DEC-2004 14:35	1.000	13
MB		t3265.d	5.00	31-DEC-2004 14:57	1.000	14
20412290201		t3266.d	5.15	31-DEC-2004 15:32	1.000	15
20412290201		t3267.d	5.05	31-DEC-2004 15:54	1.000	16
20412300204		t3268.d	5.68	31-DEC-2004 16:28	1.000	17
20412300202		t3269.d	5.06	31-DEC-2004 17:05	1.000	18
20412300206		t3270.d	5.33	31-DEC-2004 17:27	1.000	19
20412300201		t3271.d	5.39	31-DEC-2004 17:49	1.000	20
20412300203		t3272.d	5.19	31-DEC-2004 18:11	1.000	21
20412300205		t3273.d	4.98	31-DEC-2004 18:33	1.000	22
BLK		t3274.d	5.00	31-DEC-2004 18:55	1.000	23
BLK		t3275.d	5.00	31-DEC-2004 19:17	1.000	24
BLK		t3276.d	5.00	31-DEC-2004 19:39	1.000	25
BLK		t3277.d	5.00	31-DEC-2004 20:01	1.000	26
BLK		t3278.d	5.00	31-DEC-2004 20:23	1.000	27

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 29-DEC-2004
Instrument: msv0.i
Analyst(s): KCB

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-21-3
Ac/Ac/VA	250/50	5-23-4
CVE	50	5-23-5

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
BLANK		t8776.d	0.00	29-DEC-2004 06:43	1.000	2
BLANK	CHANGE OUT STDS	t8777.d	0.00	29-DEC-2004 07:05	1.000	2
BLANK		t8778.d	0.00	29-DEC-2004 08:40	1.000	2
1000		t8779.d	0.00	29-DEC-2004 09:02	1.000	2
1400		t8780.d	5.00	29-DEC-2004 09:25	1.000	3
214616		t8781.d	5.00	29-DEC-2004 09:59	50.000	4
214625		t8782.d	5.00	29-DEC-2004 10:21	50.000	5
BLANK		t8783.d	5.00	29-DEC-2004 10:43	1.000	6
214615		t8784.d	5.00	29-DEC-2004 11:05	50.000	7
20412220502		t8785.d	3.71	29-DEC-2004 11:27	50.000	8
20412220503		t8786.d	3.49	29-DEC-2004 11:50	50.000	9
214620		t8787ms.d	3.71	29-DEC-2004 12:14	50.000	10
214621		t8788msd.d	3.71	29-DEC-2004 12:36	50.000	11
BLANK		t8789.d	5.00	29-DEC-2004 12:58	1.000	12
20412290201		t8790.d	5.27	29-DEC-2004 13:49	50.000	13

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
CLP 2.1 IS/SS	5-24-01	C-157-05	NSI	C-157-05 10/06	0.5 ml	50 ml	25ppm	CH_3OH 043554	RJO	12-28-04	6-26-05
CLP 2.1 IS/SS	5-24-01 RJO 12-28-04 ~~5-24-02~~	233-04-07	NSI	233-04-07 10/05	0.625ml	50 ml	25ppm	CH_3OH 043554	RJO	12-28-04	6-26-05
8260 Std	5-24-03	Q-4115	NSI	112003-01 11/05	3.125 mL	25 mL	250 ppm	MeOH	KCB	12/30/04	6-30-05
		Q-4116		032204-01 09/05	3.125 mL			043554			
		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						
AC/AC	5-24-4	Q-2143	NSI	111904-04 05/05	1.25 mL	10 mL	50ppb	DI H_2O	KCB	12/30/04	6/30/04
Tetrahydro Furan	5-25-5	685-03-01	NSI	685-03-01 9-05	2.5 ml	10 ml	250 ppm	MEOH	043554 MEF	1-2-05	7-2-05
Tetrahydro Furan ICV	5-25-6	U-1296	ULTA Scientific	U-1296 09-07	2.5 ml	10 ml	250 ppm	MEOH	043554 MEF	1-2-05	7-2-05
Methacrylonitrile	5-25-7	10000 ppm 5-23-12	House	Q 4406 6-22-05	125 ul	5.0 mL	250 ppm	MeOH	KCB	1-3-05	7-3-05
Dupont Std. 624	5-25-8	Q 3160	NSI	~~Q 3160~~ 122804-07 5-xp 06-05	1.25 ml	10 ml	250 ppm	MEOH 043554	MEF	1-6-05	7-6-05
ICV 1,3-butadiene	5-24-9	93016	ABS 2500 ppm	051004 5/10/07	1.0 mL	10 mL	250 ppm	MeOH 043554	KCB	1-8-05	7-8-05
ICV APP MIX 1	5-24-10	93014	ABS 2500 ppm	051004 5/10/07	1.0 mL	10 mL	250 ppm	MeOH 043554	KCB	1-8-05	7-8-05
ICV APP MIX 2	5-24-11	93015	ABS Varied	120402 12/04/05	1.25 mL	5.0 mL	50 ppm	MeOH 043554	KCB	1-8-05	7-8-05
Ac/Ac	5-24-12	Q-2143	NSI	111904-04 05/05	1.25 mL	10 mL	50ppb	DI H_2O	RPS	1-11-05	05/31/05

000280

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
1,2 Dichloroethene	5-23-1	HB16443HB	Aldrich	HB16443HB	0.25g	25.0ml	10,000ppm	12687LC CH_3OH	JCK	12-7-04	5-6-05
1,2 Dichloroethene	5-23-2	In House	Aldrich	5-23-1 5-6-05	10ml	100ml	1,000ppm	12687LC CH_3OH	JCK	12-7-04	5-6-05
Ac/Ac	5-23-3	Q-2143	NSI	072104-04 Exp. 02/05	1.25mL	10mL	50ppm	DI H_2O	JCK	12-10-04	5-9-05
AC/AC	5-23-4	Q-2143	NSI	072104-04 EXP-02-05	1.25ml	10ml	50ppm	DI H_2O	RW	12-15-04	5-14-05 RW
2CVE	5-23-5	17-04-08	NSI 1000ppm	17-04-08 EXP-02-06	6.250ml	25ml	250ppm	MeOH 12687LC	RW	12-16-04	5-15-05
8260 IS/SS	5-23-6	C-440-06	NSI 2000 ppm	C-440-06 EXP-02-06	0.5ml	50ml	25ppm	MeOH 12687LC	RW	12-17-04	5-16-05
		C-441-05	NSI 2000ppm	C-441-05 EXP-12-06	0.5ml						
8260 IS Dupont	5-23-7	C-441-05	NSI 250ppm	C-441-05 EXP-12-06	2.0ml	100ml	50ppm	MeOH 12687LC	RW RSP	12-17-04	5-16-05
624 STD Dupont	5-23-8	Q-3160	NSI	061404-06 12/30/04	1.25ml	10ml	250ppm	MeOH 043554	RPS	12-19-04	12-31-04
624 LCS	5-23-9	92782	Absolute Stds	030104-030107	1.25ml	10ml	250ppm	MeOH 043554	RPS	12-19-04	5 RSP 6-18-05
App-mix-2	5-23-10	93015	ABS	120402 EXP-120405	2.5ml	10ml	50ppm	MeOH 043554	RSP	12-19-04	5 6-18-05 RSP
Dates 12-01-04 – 12-19-04 were received by QA/QC Dept. on 12/22/04 DLH											
1-3-butadiene	5-23-11	93016	ABS 250ppm	051004 EXP-051007	1.0ml	10ml	250ppm	MeOH 043554	RSP	12-23-04	06-22-05
methacrylonitrile	5-23-12	Q 4406ml Neat	Aldrich	Q4406ml	0.109ml	10ml	10000ppm	MeOH 043554	RSP	12-23-04	6-22-05
methacrylonitrile	5-23-13	5-23-12	In house	5-23-12 EXP-6-22-05	250ul	10ml	250ppm	MeOH 043554	RSP	12-23-04	6-22-05
ICV-methacrylonitrile	5-23-14	Q-4406ml Neat	Aldrich	Q-4406 Aldrich	0.10gr	10ml	10000ppm	MeOH 043554	RW	12-23-04	6-22-05
ICV-methacrylonitrile	5-23-15	5-23-14	In house	5-23-13 EXP-6-22-05	250ul	10ml	250ppm	MeOH 043554	RSP	12-23-04	6-22-05
CLP 2.1 IS/SS	5-23-16				RJU	12-28-04					

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
Sodium Bisulfate	5-21-1	Fisher 026306	Fisher	026306	200gm	1000mL	200g/L	DI H_2O	RMS	11-11-04	05-10-05
1-bromo-2-chloroethane ICV	5-21-2	Lot(012003) Lot(71245)	Abs 1000ppm	Lot 012003 Exp012008	1.25mL	5.0mL	250ppm	MeOH Y04E40	JCK	11-13-04	05-12-05
8260 STD	5-21-3	Q-4115	NSI	112003-01 Exp-1105	3.125ml	25 ml	250PPM	MeOH	RSP	11-14-04	5-13-05
		Q-4116		032204-01 Exp-09-05	3.125ml			Y04E40			
		C-303-28		C-303-28 Exp-12-06	6.250ml						
		1-bromo 2-chloroethane 1407-01-02		1407-01-02 Exp-07-06	3.125ml						
AC/AC	5-21-4	Q-2143	NSI	072104-04 02-14-05	1.25ml	10ml	50ppm	DI H_2O	mf	11-15-04	02-14-05
8260 ICV	5-21-5	Q-4115 AH	NSI	112003-01 11-05	1.25	10ml	250ppm	MeOH	RSP	11-15-04	05-14-05
		Q-4116 AH		112003-01 Exp-05-05	1.25			Y04E40			
		C-303-27 AH		C-303-27 AH 9-05	2.5						
8260 AC/AC ICV	5-21-6	081004-04 Q-2143	NSI	081004-04 Exp-02-05	1.25	10ml	50ppm	DI H2O	RSP	11-15-04	02-28-05
AC/AC-	5-21-7	Q-2143	NSI	072104-04 Exp-02-14-05	1.25ml	10ml	50ppm	DI H2O	RSP	11-20-04	2-14-05
1-Nitropropane	5-21-8	08030JU	Aldrich	08030JU Neat	0.50g	10ml	50,000ppm	V079-05 MeOH	KCB	11/22/04	5/22/05
2-Nitropropane	5-21-9	11501KA	Aldrich	11501KA NEAT	0.50g	10ml	50,000ppm	V079-08 MeOH	KCB	11/22/04	5/22/05
1&2-Nitropropane	5-21-10	HOUSE 5-21-8 5-21-9	Aldrich	5-21-8 5-21-9	125ml 125ml	25mL	250ppm	V079-08 MeOH	KCB	11/22/04	5/22/05
Dates 10-31-04 — 11-22-04 were reviewed by QA/QC Dept on 11-30-04									DLH	—	—
Methyl disulfide	5-21-11	Absolute 081401	Absolute	081401 081406	1.25ml	5ml	250ppm	MeOH	JCK	12-01-04	6-01-05
AC/AC	5-21-12	Q2143	NSI	072104-04 2-28-05	1.25ml	10ml	50ppm	DI H_2O	mf	12-2-04	6-02-05

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Method: SW-846 8270 Level: (low/med) LOW

EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1. 001-NFF-BFC-S-1228-04	73		74		78		59		57		81		0
2. LCS214981	83		86		87		73		66		76		0
3. LCSD214982	80		79		83		68		64		74		0
4. MB214980	79		83		97		63		59		71		0
5. 001-NFF-BFC-S-122...MS	83		85		80		71		67		75		0
6. 001-NFF-BFC-S-12...MSD	76		81		78		64		62		74		0

		CONTROL LIMITS	
SMC 1	Nitrobenzene-d5	33	116
SMC 2	2-Fluorobiphenyl	30	118
SMC 3	Terphenyl-d14	26	135
SMC 4	Phenol-d5	25	117
SMC 5	2-Fluorophenol	28	106
SMC 6	2,4,6-Tribromophenol	26	115

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Spike HSN : 214981

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4,5-Trichlorophenol	ug/kg	3330	0	3020	91		58 - 111
2,4,6-Trichlorophenol	ug/kg	3330	0	2840	85		60 - 110
2,4-Dichlorophenol	ug/kg	3330	0	2580	77		53 - 111
2,4-Dimethylphenol	ug/kg	3330	0	2550	77		51 - 108
2,4-Dinitrophenol	ug/kg	3330	0	1160	35		27 - 121
2,4-Dinitrotoluene	ug/kg	3330	0	2630	79		44 - 121
2,6-Dinitrotoluene	ug/kg	3330	0	2720	82		55 - 117
2-Chloronaphthalene	ug/kg	3330	0	2860	86		57 - 112
2-Chlorophenol	ug/kg	3330	0	2580	77		44 - 113
2-Methyl-4,6-dinitrophenol	ug/kg	3330	0	1930	58		49 - 115
2-Methylnaphthalene	ug/kg	3330	0	2590	78		53 - 110
2-Nitroaniline	ug/kg	3330	0	2450	74		38 - 107
2-Nitrophenol	ug/kg	3330	0	2680	80		58 - 110
3,3'-Dichlorobenzidine	ug/kg	3330	0	1890	57		24 - 127
3-Nitroaniline	ug/kg	3330	0	1590	48		9 - 106
4-Bromophenyl-phenylether	ug/kg	3330	0	2990	90		59 - 118
4-Chloro-3-methylphenol	ug/kg	3330	0	2620	79		48 - 112
4-Chloroaniline	ug/kg	3330	0	1220	37		3 - 101
4-Chlorophenyl-phenylether	ug/kg	3330	0	2810	84		54 - 112
4-Nitroaniline	ug/kg	3370	0	1950	58		24 - 99
4-Nitrophenol	ug/kg	3330	0	2600	78		38 - 125
Acenaphthene	ug/kg	3330	0	2810	84		41 - 120
Acenaphthylene	ug/kg	3330	0	3300	99		57 - 105
Acetophenone	ug/kg	3330	0	2630	79		55 - 117
Anthracene	ug/kg	3330	0	2980	89		60 - 108
Atrazine (Aatrex)	ug/kg	3330	0	9510	285	*	37 - 148
Benzaldehyde	ug/kg	3330	0	1070	32		25 - 127
Benzo(a)anthracene	ug/kg	3330	0	2850	86		60 - 107
Benzo(a)pyrene	ug/kg	3330	0	2830	85		62 - 110
Benzo(b)fluoranthene	ug/kg	3330	0	2410	72		56 - 110
Benzo(g,h,i)perylene	ug/kg	3330	0	2210	66		46 - 128
Benzo(k)fluoranthene	ug/kg	3330	0	2580	77		55 - 113
Biphenyl	ug/kg	3330	0	2520	76		43 - 118
Bis(2-Chloroethoxy)methane	ug/kg	3330	0	2640	79		53 - 109
Bis(2-Chloroethyl)ether	ug/kg	3330	0	2750	83		39 - 114
Butylbenzylphthalate	ug/kg	3330	0	2930	88		63 - 121

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Caprolactam	ug/kg	3330	0	2670	80		42 - 130
Carbazole	ug/kg	3330	0	2410	72		50 - 96
Chrysene	ug/kg	3270	0	2880	88		61 - 111
Di-n-butylphthalate	ug/kg	3330	0	2940	88		60 - 115
Di-n-octylphthalate	ug/kg	3330	0	2820	85		55 - 121
Dibenz(a,h)anthracene	ug/kg	3330	0	2610	78		50 - 135
Dibenzofuran	ug/kg	3330	0	2750	83		55 - 110
Diethylphthalate	ug/kg	3330	0	2860	86		52 - 114
Dimethyl-phthalate	ug/kg	3330	0	2880	86		56 - 111
Fluoranthene	ug/kg	3330	0	2640	79		54 - 108
Fluorene	ug/kg	3330	0	2790	84		54 - 106
Hexachlorobenzene	ug/kg	3330	0	2820	85		50 - 121
Hexachlorobutadiene	ug/kg	3330	0	2940	88		22 - 134
Hexachlorocyclopentadiene	ug/kg	3330	0	2870	86		48 - 116
Hexachloroethane	ug/kg	3330	0	2740	82		43 - 111
Indeno(1,2,3-cd)pyrene	ug/kg	3330	0	2370	71		43 - 132
Isophorone	ug/kg	3330	0	2860	86		55 - 112
N-Nitroso-di-n-propylamine	ug/kg	3330	0	2660	80		45 - 122
N-Nitrosodiphenylamine	ug/kg	3270	0	2980	91		58 - 123
Naphthalene	ug/kg	3330	0	2750	83		53 - 107
Nitrobenzene	ug/kg	3330	0	2760	83		53 - 112
Pentachlorophenol	ug/kg	3330	0	2550	77		23 - 142
Phenanthrene	ug/kg	3330	0	2890	87		59 - 107
Phenol	ug/kg	3330	0	2520	76		34 - 116
Pyrene	ug/kg	3330	0	3060	92		39 - 135
bis(2-Chloroisopropyl)ether	ug/kg	3330	0	2570	77		45 - 113
bis(2-ethylhexyl)phthalate	ug/kg	3330	0	2990	90		56 - 127
m,p-Cresol	ug/kg	3330	0	2460	74		50 - 110
o-Cresol	ug/kg	3330	0	2530	76		50 - 108

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

FORM III SV-2

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Spike Dupe HSN : 214982

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4,5-Trichlorophenol	ug/kg	3330	2640	79		13		58 - 111	0 - 19
2,4,6-Trichlorophenol	ug/kg	3330	2610	78		8		60 - 110	0 - 21
2,4-Dichlorophenol	ug/kg	3330	2580	77		0		53 - 111	0 - 21
2,4-Dimethylphenol	ug/kg	3330	2480	74		3		51 - 108	0 - 22
2,4-Dinitrophenol	ug/kg	3330	1150	35		.9		27 - 121	0 - 49
2,4-Dinitrotoluene	ug/kg	3330	2480	74		6		44 - 121	0 - 23
2,6-Dinitrotoluene	ug/kg	3330	2520	76		8		55 - 117	0 - 19
2-Chloronaphthalene	ug/kg	3330	2560	77		11		57 - 112	0 - 19
2-Chlorophenol	ug/kg	3330	2420	73		6		44 - 113	0 - 26
2-Methyl-4,6-dinitrophenol	ug/kg	3330	1860	56		4		49 - 115	0 - 31
2-Methylnaphthalene	ug/kg	3330	2520	76		3		53 - 110	0 - 18
2-Nitroaniline	ug/kg	3330	2260	68		8		38 - 107	0 - 19
2-Nitrophenol	ug/kg	3330	2650	80		1		58 - 110	0 - 20
3,3'-Dichlorobenzidine	ug/kg	3330	1940	58		3		24 - 127	0 - 35
3-Nitroaniline	ug/kg	3330	1590	48		0		9 - 106	0 - 46
4-Bromophenyl-phenylether	ug/kg	3330	2760	83		8		59 - 118	0 - 22
4-Chloro-3-methylphenol	ug/kg	3330	2560	77		2		48 - 112	0 - 24
4-Chloroaniline	ug/kg	3330	1440	43		17		3 - 101	0 - 51
4-Chlorophenyl-phenylether	ug/kg	3330	2570	77		9		54 - 112	0 - 19
4-Nitroaniline	ug/kg	3370	1940	58		.5		24 - 99	0 - 25
4-Nitrophenol	ug/kg	3330	2520	76		3		38 - 125	0 - 29
Acenaphthene	ug/kg	3330	2620	79		7		41 - 120	0 - 19
Acenaphthylene	ug/kg	3330	3060	92		8		57 - 105	0 - 18
Acetophenone	ug/kg	3330	2410	72		9		55 - 117	0 - 50
Anthracene	ug/kg	3330	2840	85		5		60 - 108	0 - 19
Atrazine (Aatrex)	ug/kg	3330	9020	271	*	5		37 - 148	0 - 50
Benzaldehyde	ug/kg	3330	1190	36		11		25 - 127	0 - 50
Benzo(a)anthracene	ug/kg	3330	2730	82		4		60 - 107	0 - 19
Benzo(a)pyrene	ug/kg	3330	2770	83		2		62 - 110	0 - 16
Benzo(b)fluoranthene	ug/kg	3330	2400	72		.4		56 - 110	0 - 24
Benzo(g,h,i)perylene	ug/kg	3330	2110	63		5		46 - 128	0 - 19
Benzo(k)fluoranthene	ug/kg	3330	2490	75		4		55 - 113	0 - 31
Biphenyl	ug/kg	3330	2480	74		2		43 - 118	0 - 50
Bis(2-Chloroethoxy)methane	ug/kg	3330	2580	77		2		53 - 109	0 - 20
Bis(2-Chloroethyl)ether	ug/kg	3330	2640	79		4		39 - 114	0 - 24
Butylbenzylphthalate	ug/kg	3330	2750	83		6		63 - 121	0 - 21

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

3D
SOIL SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Caprolactam	ug/kg	3330	2540	76		5		42 - 130	0 - 50
Carbazole	ug/kg	3330	2380	71		1		50 - 96	0 - 17
Chrysene	ug/kg	3270	2740	84		5		61 - 111	0 - 19
Di-n-butylphthalate	ug/kg	3330	2930	88		.3		60 - 115	0 - 19
Di-n-octylphthalate	ug/kg	3330	2570	77		9		55 - 121	0 - 18
Dibenz(a,h)anthracene	ug/kg	3330	2390	72		9		50 - 135	0 - 23
Dibenzofuran	ug/kg	3330	2540	76		8		55 - 110	0 - 17
Diethylphthalate	ug/kg	3330	2610	78		9		52 - 114	0 - 20
Dimethyl-phthalate	ug/kg	3330	2650	80		8		56 - 111	0 - 17
Fluoranthene	ug/kg	3330	2750	83		4		54 - 108	0 - 20
Fluorene	ug/kg	3330	2590	78		7		54 - 106	0 - 16
Hexachlorobenzene	ug/kg	3330	2630	79		7		50 - 121	0 - 19
Hexachlorobutadiene	ug/kg	3330	2730	82		7		22 - 134	0 - 20
Hexachlorocyclopentadiene	ug/kg	3330	2550	77		12		48 - 116	0 - 27
Hexachloroethane	ug/kg	3330	2530	76		8		43 - 111	0 - 21
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2180	65		8		43 - 132	0 - 33
Isophorone	ug/kg	3330	2750	83		4		55 - 112	0 - 26
N-Nitroso-di-n-propylamine	ug/kg	3330	2550	77		4		45 - 122	0 - 38
N-Nitrosodiphenylamine	ug/kg	3270	2740	84		8		58 - 123	0 - 19
Naphthalene	ug/kg	3330	2610	78		5		53 - 107	0 - 18
Nitrobenzene	ug/kg	3330	2680	80		3		53 - 112	0 - 23
Pentachlorophenol	ug/kg	3330	2620	79		3		23 - 142	0 - 26
Phenanthrene	ug/kg	3330	2770	83		4		59 - 107	0 - 18
Phenol	ug/kg	3330	2440	73		3		34 - 116	0 - 25
Pyrene	ug/kg	3330	2870	86		6		39 - 135	0 - 26
bis(2-Chloroisopropyl)ether	ug/kg	3330	2460	74		4		45 - 113	0 - 26
bis(2-ethylhexyl)phthalate	ug/kg	3330	2760	83		8		56 - 127	0 - 21
m,p-Cresol	ug/kg	3330	2400	72		2		50 - 110	0 - 23
o-Cresol	ug/kg	3330	2450	74		3		50 - 108	0 - 25

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Spike HSN : 214983

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
2,4,5-Trichlorophenol	ug/kg	3740	0	3200	86		58 - 111
2,4,6-Trichlorophenol	ug/kg	3740	0	3220	86		60 - 110
2,4-Dichlorophenol	ug/kg	3740	0	3010	80		53 - 111
2,4-Dimethylphenol	ug/kg	3740	0	3110	83		51 - 108
2,4-Dinitrophenol	ug/kg	3740	0	1590	42		27 - 121
2,4-Dinitrotoluene	ug/kg	3740	0	3050	81		44 - 121
2,6-Dinitrotoluene	ug/kg	3740	0	3090	83		55 - 117
2-Chloronaphthalene	ug/kg	3740	0	3240	86		57 - 112
2-Chlorophenol	ug/kg	3740	0	2810	75		44 - 113
2-Methyl-4,6-dinitrophenol	ug/kg	3740	0	2440	65		49 - 115
2-Methylnaphthalene	ug/kg	3740	0	2950	79		53 - 110
2-Nitroaniline	ug/kg	3740	0	2680	71		38 - 107
2-Nitrophenol	ug/kg	3740	0	3090	83		58 - 110
3,3'-Dichlorobenzidine	ug/kg	3740	0	2230	59		24 - 127
3-Nitroaniline	ug/kg	3740	0	1790	48		9 - 106
4-Bromophenyl-phenylether	ug/kg	3740	0	3200	86		59 - 118
4-Chloro-3-methylphenol	ug/kg	3740	0	3090	83		48 - 112
4-Chloroaniline	ug/kg	3740	0	1530	41		3 - 101
4-Chlorophenyl-phenylether	ug/kg	3740	0	3180	85		54 - 112
4-Nitroaniline	ug/kg	3790	0	2300	61		24 - 99
4-Nitrophenol	ug/kg	3740	0	3050	81		38 - 125
Acenaphthene	ug/kg	3740	0	3160	84		41 - 120
Acenaphthylene	ug/kg	3740	0	3720	99		57 - 105
Acetophenone	ug/kg	3740	0	2910	78		55 - 117
Anthracene	ug/kg	3740	0	3320	89		60 - 108
Atrazine (Aatrex)	ug/kg	3740	0	11000	293	*	37 - 148
Benzaldehyde	ug/kg	3740	0	3460	92		25 - 127
Benzo(a)anthracene	ug/kg	3740	0	3230	86		60 - 107
Benzo(a)pyrene	ug/kg	3740	0	3250	87		62 - 110
Benzo(b)fluoranthene	ug/kg	3740	0	2720	73		56 - 110
Benzo(g,h,i)perylene	ug/kg	3740	0	2330	62		46 - 128
Benzo(k)fluoranthene	ug/kg	3740	0	3110	83		55 - 113
Biphenyl	ug/kg	3740	0	2950	79		43 - 118
Bis(2-Chloroethoxy)methane	ug/kg	3740	0	3010	80		53 - 109
Bis(2-Chloroethyl)ether	ug/kg	3740	0	3100	83		39 - 114
Butylbenzylphthalate	ug/kg	3740	0	3150	84		63 - 121

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Caprolactam	ug/kg	3740	0	2860	76		42 - 130
Carbazole	ug/kg	3740	0	2750	74		50 - 96
Chrysene	ug/kg	3680	0	3180	87		61 - 111
Di-n-butylphthalate	ug/kg	3740	23.4	3360	89		60 - 115
Di-n-octylphthalate	ug/kg	3740	0	3050	81		55 - 121
Dibenz(a,h)anthracene	ug/kg	3740	0	2740	73		50 - 135
Dibenzofuran	ug/kg	3740	0	3070	82		55 - 110
Diethylphthalate	ug/kg	3740	0	3190	85		52 - 114
Dimethyl-phthalate	ug/kg	3740	0	3230	86		56 - 111
Fluoranthene	ug/kg	3740	0	3220	86		54 - 108
Fluorene	ug/kg	3740	0	3140	84		54 - 106
Hexachlorobenzene	ug/kg	3740	0	3140	84		50 - 121
Hexachlorobutadiene	ug/kg	3740	0	3250	87		22 - 134
Hexachlorocyclopentadiene	ug/kg	3740	0	2920	78		48 - 116
Hexachloroethane	ug/kg	3740	0	2990	80		43 - 111
Indeno(1,2,3-cd)pyrene	ug/kg	3740	0	2540	68		43 - 132
Isophorone	ug/kg	3740	0	3360	90		55 - 112
N-Nitroso-di-n-propylamine	ug/kg	3740	0	3020	81		45 - 122
N-Nitrosodiphenylamine	ug/kg	3680	0	3330	91		58 - 123
Naphthalene	ug/kg	3740	0	3140	84		53 - 107
Nitrobenzene	ug/kg	3740	0	3190	85		53 - 112
Pentachlorophenol	ug/kg	3740	0	3260	87		23 - 142
Phenanthrene	ug/kg	3740	0	3170	85		59 - 107
Phenol	ug/kg	3740	0	2750	74		34 - 116
Pyrene	ug/kg	3740	0	3190	85		39 - 135
bis(2-Chloroisopropyl)ether	ug/kg	3740	0	2900	77		45 - 113
bis(2-ethylhexyl)phthalate	ug/kg	3740	0	3160	84		56 - 127
m,p-Cresol	ug/kg	3740	0	2860	76		50 - 110
o-Cresol	ug/kg	3740	0	2880	77		50 - 108

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

FORM III SV-2

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Spike Dupe HSN : 214984

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4,5-Trichlorophenol	ug/kg	3740	2960	79		8		58 - 111	0 - 40
2,4,6-Trichlorophenol	ug/kg	3740	2950	79		9		60 - 110	0 - 40
2,4-Dichlorophenol	ug/kg	3740	2590	69		15		53 - 111	0 - 40
2,4-Dimethylphenol	ug/kg	3740	2730	73		13		51 - 108	0 - 40
2,4-Dinitrophenol	ug/kg	3740	1520	41		4		27 - 121	0 - 40
2,4-Dinitrotoluene	ug/kg	3740	2830	76		7		44 - 121	0 - 38
2,6-Dinitrotoluene	ug/kg	3740	2880	77		7		55 - 117	0 - 40
2-Chloronaphthalene	ug/kg	3740	2910	78		11		57 - 112	0 - 40
2-Chlorophenol	ug/kg	3740	2530	68		11		44 - 113	0 - 41
2-Methyl-4,6-dinitrophenol	ug/kg	3740	2260	60		8		49 - 115	0 - 40
2-Methylnaphthalene	ug/kg	3740	2650	71		10		53 - 110	0 - 40
2-Nitroaniline	ug/kg	3740	2460	66		8		38 - 107	0 - 40
2-Nitrophenol	ug/kg	3740	2780	74		11		58 - 110	0 - 40
3,3'-Dichlorobenzidine	ug/kg	3740	2110	56		5		24 - 127	0 - 40
3-Nitroaniline	ug/kg	3740	1790	48		0		9 - 106	0 - 40
4-Bromophenyl-phenylether	ug/kg	3740	2990	80		7		59 - 118	0 - 40
4-Chloro-3-methylphenol	ug/kg	3740	2610	70		17		48 - 112	0 - 37
4-Chloroaniline	ug/kg	3740	1350	36		13		3 - 101	0 - 40
4-Chlorophenyl-phenylether	ug/kg	3740	2930	78		8		54 - 112	0 - 40
4-Nitroaniline	ug/kg	3790	2110	56		9		24 - 99	0 - 40
4-Nitrophenol	ug/kg	3740	2770	74		10		38 - 125	0 - 51
Acenaphthene	ug/kg	3740	2920	78		8		41 - 120	0 - 25
Acenaphthylene	ug/kg	3740	3380	90		9		57 - 105	0 - 40
Acetophenone	ug/kg	3740	2590	69		12		55 - 117	0 - 40
Anthracene	ug/kg	3740	3000	80		10		60 - 108	0 - 40
Atrazine (Aatrex)	ug/kg	3740	9910	265	*	10		37 - 148	0 - 40
Benzaldehyde	ug/kg	3740	2780	74		22		25 - 127	0 - 40
Benzo(a)anthracene	ug/kg	3740	3020	81		6		60 - 107	0 - 40
Benzo(a)pyrene	ug/kg	3740	3000	80		8		62 - 110	0 - 40
Benzo(b)fluoranthene	ug/kg	3740	2560	68		6		56 - 110	0 - 40
Benzo(g,h,i)perylene	ug/kg	3740	2200	59		5		46 - 128	0 - 40
Benzo(k)fluoranthene	ug/kg	3740	2840	76		9		55 - 113	0 - 40
Biphenyl	ug/kg	3740	2510	67		16		43 - 118	0 - 40
Bis(2-Chloroethoxy)methane	ug/kg	3740	2790	74		8		53 - 109	0 - 40
Bis(2-Chloroethyl)ether	ug/kg	3740	2870	77		8		39 - 114	0 - 40
Butylbenzylphthalate	ug/kg	3740	3040	81		4		63 - 121	0 - 40

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

FORM III SV-2

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Analytical Method: SW-846 8270

Prep Batch: 285542 Analytical Batch.: 285687

Caprolactam	ug/kg	3740	2460	66		15		42 - 130	0 - 40
Carbazole	ug/kg	3740	2500	67		10		50 - 96	0 - 40
Chrysene	ug/kg	3680	2970	81		7		61 - 111	0 - 40
Di-n-butylphthalate	ug/kg	3740	3040	80		10		60 - 115	0 - 40
Di-n-octylphthalate	ug/kg	3740	2900	77		5		55 - 121	0 - 40
Dibenz(a,h)anthracene	ug/kg	3740	2540	68		8		50 - 135	0 - 40
Dibenzofuran	ug/kg	3740	2860	76		7		55 - 110	0 - 40
Diethylphthalate	ug/kg	3740	2930	78		8		52 - 114	0 - 40
Dimethyl-phthalate	ug/kg	3740	2970	79		8		56 - 111	0 - 40
Fluoranthene	ug/kg	3740	2880	77		11		54 - 108	0 - 40
Fluorene	ug/kg	3740	2900	77		8		54 - 106	0 - 40
Hexachlorobenzene	ug/kg	3740	2820	75		11		50 - 121	0 - 40
Hexachlorobutadiene	ug/kg	3740	3040	81		7		22 - 134	0 - 40
Hexachlorocyclopentadiene	ug/kg	3740	2980	80		2		48 - 116	0 - 40
Hexachloroethane	ug/kg	3740	2780	74		7		43 - 111	0 - 40
Indeno(1,2,3-cd)pyrene	ug/kg	3740	2370	63		7		43 - 132	0 - 40
Isophorone	ug/kg	3740	3010	80		11		55 - 112	0 - 40
N-Nitroso-di-n-propylamine	ug/kg	3740	2680	71		12		45 - 122	0 - 33
N-Nitrosodiphenylamine	ug/kg	3680	2960	81		12		58 - 123	0 - 40
Naphthalene	ug/kg	3740	2830	76		10		53 - 107	0 - 40
Nitrobenzene	ug/kg	3740	2890	77		10		53 - 112	0 - 40
Pentachlorophenol	ug/kg	3740	2910	78		11		23 - 142	0 - 41
Phenanthrene	ug/kg	3740	2930	78		8		59 - 107	0 - 40
Phenol	ug/kg	3740	2520	67		9		34 - 116	0 - 33
Pyrene	ug/kg	3740	3100	83		3		39 - 135	0 - 31
bis(2-Chloroisopropyl)ether	ug/kg	3740	2650	71		9		45 - 113	0 - 40
bis(2-ethylhexyl)phthalate	ug/kg	3740	3050	81		4		56 - 127	0 - 40
m,p-Cresol	ug/kg	3740	2470	66		14		50 - 110	0 - 40
o-Cresol	ug/kg	3740	2550	68		12		50 - 108	0 - 40

RPD : 0 out of 65 outside limits

Spike Recovery: 2 out of 130 outside limits

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB214980

Lab Code: LA024 Case No.:

Contract:

Lab File ID: 2050103/A8620

SAS No.: SDG No.: 204122902

GC Column: RTX-5MS-30 ID: .53 (mm)

Lab Sample ID: 214980 Date Extracted: 12/28/04

Instrument ID: MSSV1 Matrix: Soil

Date Analyzed: 01/03/05 Time: 1052

Level: LOW

Method: SW-846 8270

Prep Batch: 285542 Analytical Batch: 285687

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS214981	214981	2050103/A8622	01/03/05	1126
2.	LCSD214982	214982	2050103/A8623	01/03/05	1144
3.	001-NFF-BFC-S-1228-04	20412290201	2050103/A8624	01/03/05	1202
4.	001-NFF-BFC-S-122...MS	214983	2050103/A8625	01/03/05	1221
5.	001-NFF-BFC-S-12...MSD	214984	2050103/A8626	01/03/05	1239

FORM IV SV

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2041227/A8554

DFTPP Injection Date: 12/27/04 Time: 0817

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285500

Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	44.15 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	71.19 ( ) ( )
70	Less than 2.0% of mass 69	.27 (.38) (1)
127	40.0-60.0% of mass 198	56.82 ( ) ( )
197	Less than 1.0% of mass 198	.44 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.58 ( ) ( )
275	10.0-30.0% of mass 198	24.15 ( ) ( )
365	Greater than 1.0% of mass 198	3.87 ( ) ( )
441	Present, but less than mass 443	12.33 ( ) ( )
442	40.0-100.0% of mass 198	70.88 ( ) ( )
443	17.0-23.0% of mass 442	12.55 (17.71) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

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.	STD050	1202	2041227/A8555	12/27/04	0855
2.	STD010	1201	2041227/A8556	12/27/04	0915
3.	STD080	1203	2041227/A8557	12/27/04	0935
4.	STD160	1205	2041227/A8558	12/27/04	1023
5.	STD120	1204	2041227/A8559	12/27/04	1040
6.	STD200	1206	2041227/A8560	12/27/04	1100
7.	STD001	1207	2041227/A8561	12/27/04	1117
8.	STD0.2	1208	2041227/A8562	12/27/04	1135

FORM V SV

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID: 2050103/A8616

DFTPP Injection Date: 01/03/05 Time: 0942

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285687

Instrument ID: MSSV1

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	42.26 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	70.67 ( ) ( )
70	Less than 2.0% of mass 69	.62 (.89) (1)
127	40.0-60.0% of mass 198	57.48 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	7.37 ( ) ( )
275	10.0-30.0% of mass 198	26.47 ( ) ( )
365	Greater than 1.0% of mass 198	4.15 ( ) ( )
441	Present, but less than mass 443	12.9 ( ) ( )
442	40.0-100.0% of mass 198	78.93 ( ) ( )
443	17.0-23.0% of mass 442	15.61 (19.78) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

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.	STD050	1400	2050103/A8617	01/03/05	0958
2.	APP9050	1400	2050103/A8618	01/03/05	1016
3.	MB214980	214980	2050103/A8620	01/03/05	1052
4.	LCS214981	214981	2050103/A8622	01/03/05	1126
5.	LCSD214982	214982	2050103/A8623	01/03/05	1144
6.	001-NFF-BFC-S-1228-04	20412290201	2050103/A8624	01/03/05	1202
7.	001-NFF-BFC-S-122...MS	214983	2050103/A8625	01/03/05	1221
8.	001-NFF-BFC-S-12...MSD	214984	2050103/A8626	01/03/05	1239

FORM V SV

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab File ID (Standard): 2050103/A8618

Date Analyzed: 01/03/05 Time: 1016

Instrument ID: MSSV1

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285687

Method: SW-846 8270

	IS 1		IS 2		IS 3	
	Area	RT	Area	RT	Area #	RT
12 HOUR STD	539208	2.784	252207	3.851	403680	4.762

	EPA Sample No.		#		#		#		#		#		#
1 .	MB214980	581760		2.78		243018		3.85		350892		4.76	
2 .	LCS214981	525865		2.79		236316		3.85		359720		4.76	
3 .	LCSD214982	465950		2.79		223866		3.85		346098		4.76	
4 .	001-NFF-BFC-S-1228-04	500276		2.78		229033		3.85		363731		4.76	
5 .	001-NFF-BFC-S-122...MS	492097		2.79		226927		3.85		354933		4.76	
6 .	001-NFF-BFC-S-12...MSD	535477		2.79		227231		3.85		359688		4.76	

IS 1 ID : Naphthalene-d8

IS 2 ID : Acenaphthene-d10

IS 3 ID : Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREALOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard values with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:

Contract:

Lab Code: Case No.:

SAS No.: SDG No.:

Lab File ID (Standard): 2050103/A8618

Date Analyzed: 01/03/05 Time: 1016

Instrument ID: MSSV1

GC Column: RTX-5MS-30 ID: .53 (mm)

Method: SW-846 8270

		IS 4			IS 5			IS 6				
		Area		RT	Area		RT	Area		RT		
	12 HOUR STD	355367		7.708	363735		6.57	152908		2.006		
			#	#		#	#		#	#		#
1 .	MB214980	384085		7.71	246827		6.57	166467		2.01		
2 .	LCS214981	494397		7.71	335827		6.58	154191		2.01		
3 .	LCSD214982	484688		7.71	369041		6.58	138861		2.01		
4 .	001-NFF-BFC-S-1228-04	557141		7.71	381445		6.57	146169		2.01		
5 .	001-NFF-BFC-S-122...MS	545080		7.71	397189		6.58	150323		2.01		
6 .	001-NFF-BFC-S-12...MSD	524615		7.71	379527		6.58	166272		2.01		

IS 4 ID : Perylene-d12
IS 5 ID : Chrysene-d12
IS 6 ID : 1,4-Dichlorobenzene-d4

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

Column used to flag internal standard values with an asterisk.
* Values outside of QC limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-1228-04

Contract:

Lab File ID: 2050103/A8624

Lab Sample ID: 20412290201

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1202

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	371	U	11.1	371
88-06-2	2,4,6-Trichlorophenol	371	U	9.90	371
120-83-2	2,4-Dichlorophenol	371	U	8.52	371
105-67-9	2,4-Dimethylphenol	371	U	92.2	371
51-28-5	2,4-Dinitrophenol	1850	U	116	1850
121-14-2	2,4-Dinitrotoluene	371	U	5.73	371
606-20-2	2,6-Dinitrotoluene	371	U	19.6	371
91-58-7	2-Chloronaphthalene	371	U	7.23	371
95-57-8	2-Chlorophenol	371	U	63.2	371
91-57-6	2-Methylnaphthalene	371	U	13.2	371
88-74-4	2-Nitroaniline	1850	U	9.27	1850
88-75-5	2-Nitrophenol	371	U	7.15	371
91-94-1	3,3'-Dichlorobenzidine	742	U	20.8	742
99-09-2	3-Nitroaniline	1850	U	4.98	1850
534-52-1	2-Methyl-4,6-dinitrophenol	1850	U	37.0	1850
101-55-3	4-Bromophenyl-phenylether	371	U	7.64	371
59-50-7	4-Chloro-3-methylphenol	371	U	9.68	371
106-47-8	4-Chloroaniline	371	U	21.9	371
7005-72-3	4-Chlorophenyl-phenylether	371	U	13.2	371
100-01-6	4-Nitroaniline	1850	U	5.49	1850
100-02-7	4-Nitrophenol	1850	U	5.52	1850
83-32-9	Acenaphthene	371	U	4.72	371
208-96-8	Acenaphthylene	371	U	4.90	371
98-86-2	Acetophenone	371	U	15.9	371
120-12-7	Anthracene	371	U	4.98	371
1912-24-9	Atrazine (Aatrex)	742	U	12.7	742
100-52-7	Benzaldehyde	742	U	13.7	742
56-55-3	Benzo(a)anthracene	371	U	3.88	371
50-32-8	Benzo(a)pyrene	371	U	3.38	371

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-1228-04

Contract:

Lab File ID: 2050103/A8624

Lab Sample ID: 20412290201

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1202

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	371	U	10.1	371
191-24-2	Benzo(g,h,i)perylene	371	U	6.69	371
207-08-9	Benzo(k)fluoranthene	371	U	8.25	371
92-52-4	Biphenyl	371	U	6.07	371
111-91-1	Bis(2-Chloroethoxy)methane	371	U	9.80	371
111-44-4	Bis(2-Chloroethyl)ether	371	U	65.4	371
108-60-1	bis(2-Chloroisopropyl)ether	371	U	73.0	371
117-81-7	bis(2-ethylhexyl)phthalate	371	U	8.32	371
85-68-7	Butylbenzylphthalate	371	U	7.61	371
105-60-2	Caprolactam	371	U	7.42	371
86-74-8	Carbazole	371	U	5.31	371
218-01-9	Chrysene	371	U	5.29	371
84-74-2	Di-n-butylphthalate	23.4	J	9.60	371
117-84-0	Di-n-octylphthalate	371	U	16.4	371
53-70-3	Dibenz(a,h)anthracene	371	U	6.69	371
132-64-9	Dibenzofuran	371	U	4.29	371
84-66-2	Diethylphthalate	371	U	7.70	371
131-11-3	Dimethyl-phthalate	371	U	10.9	371
206-44-0	Fluoranthene	371	U	5.46	371
86-73-7	Fluorene	371	U	4.50	371
118-74-1	Hexachlorobenzene	371	U	7.81	371
87-68-3	Hexachlorobutadiene	371	U	69.1	371
77-47-4	Hexachlorocyclopentadiene	371	U	47.6	371
67-72-1	Hexachloroethane	371	U	117	371
193-39-5	Indeno(1,2,3-cd)pyrene	371	U	44.4	371
78-59-1	Isophorone	371	U	6.03	371
91-20-3	Naphthalene	371	U	7.42	371
98-95-3	Nitrobenzene	371	U	61.2	371
87-86-5	Pentachlorophenol	1850	U	69.7	1850

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-1228-04

Contract:

Lab File ID: 2050103/A8624

Lab Sample ID: 20412290201

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1202

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	371	U	1.69	371
108-95-2	Phenol	371	U	9.62	371
129-00-0	Pyrene	371	U	5.67	371
1319-77-3M	m,p-Cresol	371	U	15.6	371
621-64-7	N-Nitroso-di-n-propylamine	371	U	8.59	371
86-30-6	N-Nitrosodiphenylamine	371	U	16.0	371
95-48-7	o-Cresol	371	U	109	371

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8624.d
Lab Smp Id: 20412290201 Client Smp ID: 20412290201
Inj Date : 03-JAN-2005 12:02
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 20412290201*4380
Misc Info : 20412290201*MSSV~2461~*122902*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	1.155	1.152	(0.576)	299165	57.1662	1910
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	469698	58.8711	1960
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	146169	40.0000	
$ 19 Nitrobenzene-d5	82	2.358	2.361	(0.847)	275900	36.4283	1210
* 28 Naphthalene-d8	136	2.784	2.787	(1.000)	500276	40.0000	
$ 37 2-Fluorobiphenyl	172	3.443	3.442	(0.894)	329493	37.1726	1240
* 44 Acenaphthene-d10	164	3.851	3.851	(1.000)	229033	40.0000	
$ 57 2,4,6-Tribromophenol	332	4.342	4.342	(1.127)	105787	81.4131	2710
* 61 Phenanthrene-d10	188	4.762	4.762	(1.000)	363731	40.0000	
65 Di-n-butylphthalate	149	5.126	5.125	(1.076)	8567	0.62382	20.8
$ 70 Terphenyl-d14	244	5.784	5.784	(0.880)	305859	39.0672	1300
* 74 Chrysene-d12	240	6.570	6.573	(1.000)	381445	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
* 81 Perylene-d12	264	7.708	7.708	(1.000)	557141	40.0000	

Data File: /var/chem/MSSV1.i/2050103.s.b/a8624.d

Date : 03-JAN-2005 12:02

Client ID: 20412290201

Sample Info: 20412290201*4380

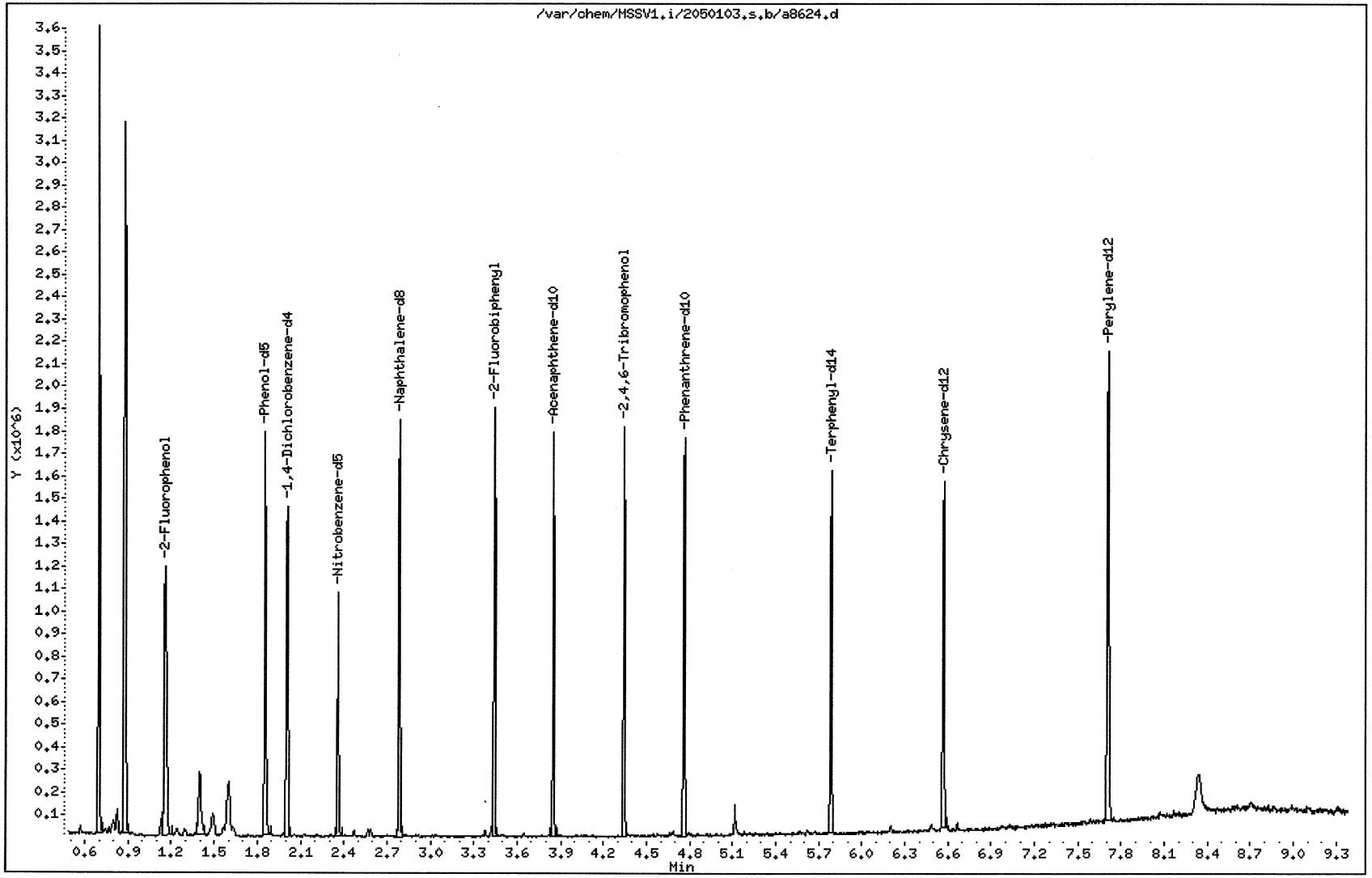
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25



000302

Data File: /var/chem/MSSV1.i/2050103.s.b/a8624.d

Date : 03-JAN-2005 12:02

Client ID: 20412290201

Instrument: MSSV1.i

Sample Info: 20412290201*4380

Volume Injected (uL): 1.0

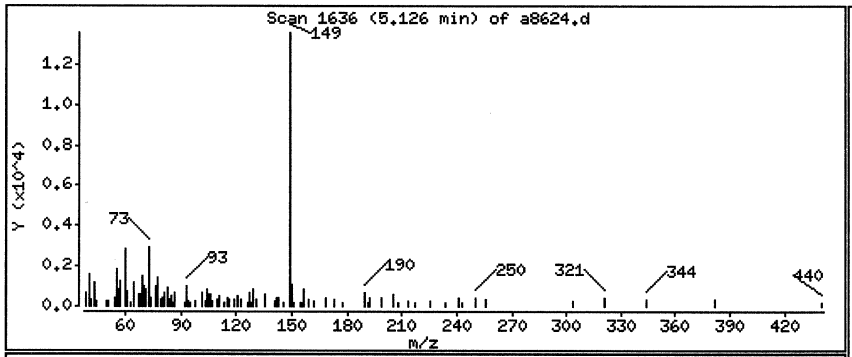
Operator: jar3

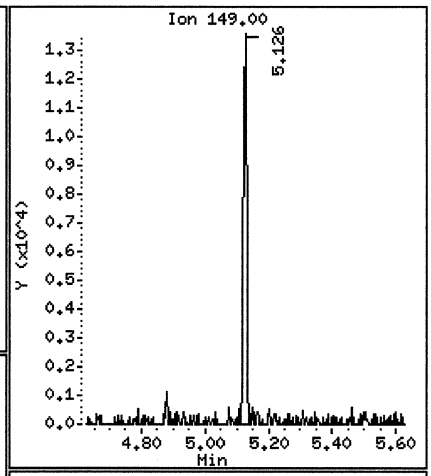
Column phase: RTX-5MS-30M

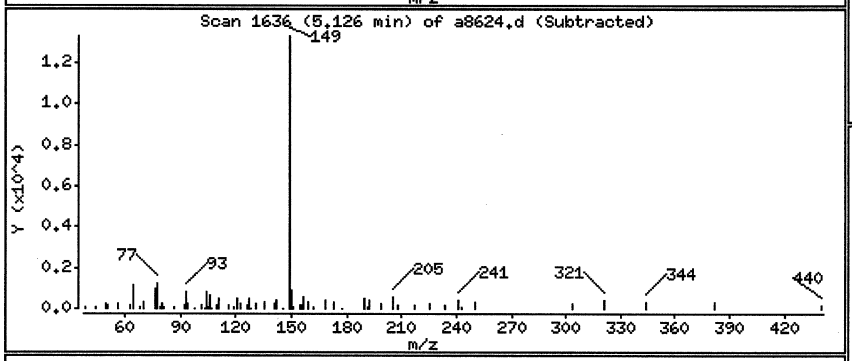
Column diameter: 0.25

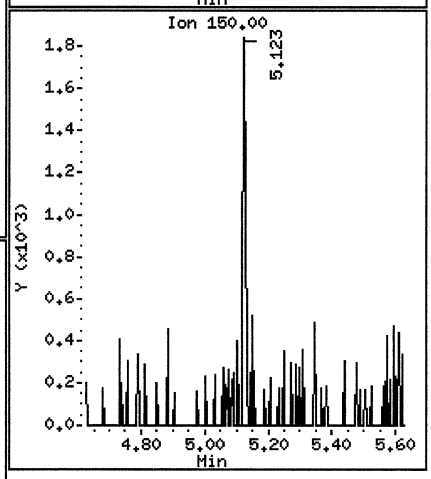
65 Di-n-butylphthalate

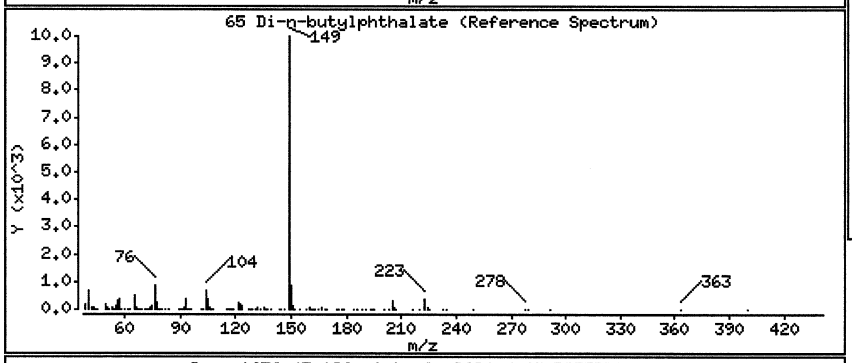
Concentration: 20.8 ug/Kg

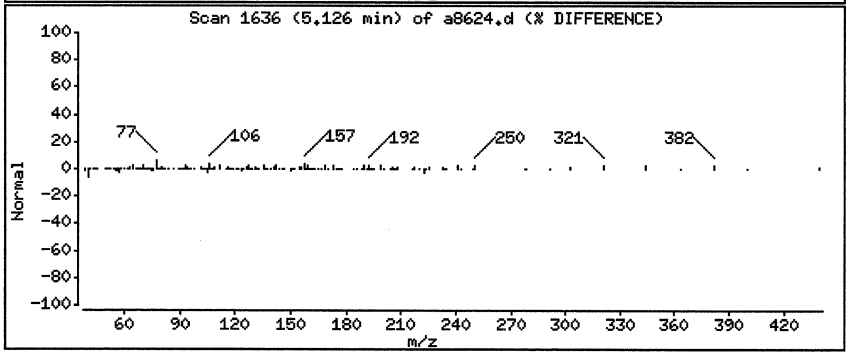








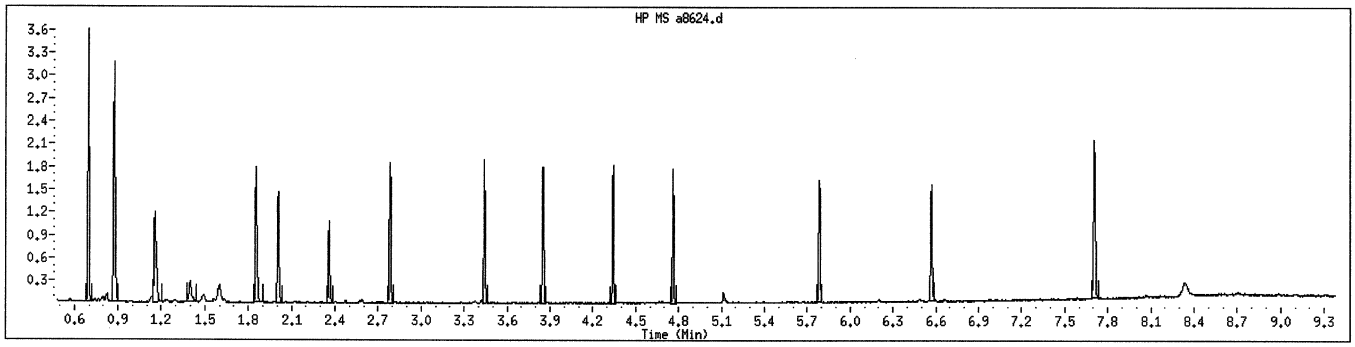




Data file : /var/chem/MSSV1.i/2050103.s.b/a8624.d
Report Date: 01/03/2005 12:50

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 20412290201	SampleType	: SAMPLE
Injection Date	: 03-JAN-2005 12:02	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 20412290201*4380		
Misc Info	: 20412290201*MSSV~2461~*122902*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/MSSV1.i/2041220.s.b/a8367.d
Level 2: /var/chem/MSSV1.i/2041220.s.b/a8368.d
Level 3: /var/chem/MSSV1.i/2041220.s.b/a8369.d
Level 4: /var/chem/MSSV1.i/2041220.s.b/a8370.d
Level 5: /var/chem/MSSV1.i/2041220.s.b/a8371.d
Level 6: /var/chem/MSSV1.i/2041217.s.b/a8320.d
Level 7: /var/chem/MSSV1.i/2041227.s.b/a8561.d
Level 8: /var/chem/MSSV1.i/2041227.s.b/a8562.d

Compound	10.000 Level 1 / 1.000 Level 7	50.000 Level 2 / 0.20000 Level 8	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
1 n-Nitrosodimethylamine	0.10758	0.10821	0.11213	0.10634	0.10522	0.10371			
	+++++	+++++					0.10720	2.713	
2 Pyridine	0.36894	0.37312	0.37250	0.32857	0.36776	0.35678			
	+++++	+++++					0.36128	4.725	
5 Aniline	2.80949	2.08511	1.53686	1.12690	0.94675	+++++			
	+++++	+++++					1.70102	44.595	<-
6 Phenol +	2.60932	2.08447	2.33413	2.11760	2.18209	2.20483			
	+++++	+++++					2.25541	8.588	
7 bis(-2-Chloroethyl)Ether	1.49829	1.44857	1.54806	1.43761	1.37611	1.37374			
	1.23669	+++++					1.41701	7.131	
8 2-Chlorophenol	1.60896	1.41309	1.50018	1.39487	1.36559	1.37601			
	1.51820	+++++					1.45384	6.237	
9 1,3-Dichlorobenzene	1.99363	1.71166	1.69959	1.71621	1.65010	1.63691			
	+++++	+++++					1.73468	7.555	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
11 1,4-Dichlorobenzene +	1.93906	1.66448	1.71423	1.70387	1.69719	1.62602		
	+++++	+++++					1.72414	6.386
12 Benzyl alcohol	1.23788	1.02945	1.13952	1.06172	1.07749	1.04196		
	+++++	+++++					1.09800	7.156
13 1,2-Dichlorobenzene	1.84258	1.59757	1.63034	1.61963	1.57825	1.57194		
	+++++	+++++					1.64005	6.206
14 Bis(2-chloroisopropyl)ether	1.53869	1.30806	1.39048	1.35142	1.29427	1.28636		
	1.36282	+++++					1.36173	6.385
15 2-Methylphenol	1.76666	1.38495	1.56473	1.41286	1.41379	1.43666		
	+++++	+++++					1.49661	9.797
16 N-Nitroso-di-n-propylamine++	1.76875	1.43496	1.63021	1.46460	1.46471	1.44153		
	+++++	+++++					1.53413	8.858
17 3- & 4-Methylphenol	1.79053	1.45141	1.65421	1.50306	1.52532	1.50432		
	+++++	+++++					1.57148	8.078
18 Hexachloroethane	0.94107	0.78644	0.80566	0.80570	0.77302	0.76155		
	0.81609	+++++					0.81279	7.360
20 Nitrobenzene	0.73880	0.64960	0.64248	0.61246	0.59325	0.59817		
	0.62836	+++++					0.63759	7.750
21 Isophorone	1.16389	0.98921	1.07461	0.96810	0.96054	0.92274		
	+++++	+++++					1.01318	8.833

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	1.000 Level 7	0.20000 Level 8						
22 2-Nitrophenol +	0.22199	0.20519	0.21295	0.20265	0.20272	0.20407		
	+++++	+++++					0.20826	3.717
23 2,4-Dimethyphenol	0.55653	0.49613	0.53900	0.49765	0.50133	0.49503		
	+++++	+++++					0.51428	5.174
24 bis(-2-Chloroethoxy)methane	0.62125	0.54763	0.58139	0.54778	0.55160	0.54885		
	+++++	+++++					0.56642	5.273
25 Benzoic Acid	0.20284	0.19163	0.24971	0.20796	0.22358	0.22289		
	+++++	+++++					0.21644	9.406
26 2,4-Dichlorophenol +	0.32945	0.28885	0.31471	0.29112	0.31089	0.30035		
	+++++	+++++					0.30589	5.058
27 1,2,4-Trichlorobenzene	0.38503	0.35018	0.34429	0.34801	0.34438	0.34732		
	+++++	+++++					0.35320	4.460
29 Naphthalene	1.33661	1.19840	1.19930	1.16567	1.18737	1.16317		
	+++++	+++++					1.20842	5.354
30 4-Chloroaniline	0.53185	0.42841	0.39937	0.32838	0.30270	0.26205		
	+++++	+++++					0.37546	26.151
31 Hexachlorobutadiene +	0.25489	0.24453	0.24313	0.24807	0.24132	0.23702		
	+++++	+++++					0.24483	2.505
32 4-Chloro-3-Methylphenol +	0.41870	0.35897	0.42761	0.37067	0.40758	0.38588		
	0.40202	+++++					0.39592	6.357

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Curve Type : Average

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	1.000 Level 7	0.20000 Level 8						
33 2-Methylnaphthalene	0.79982	0.72500	0.78341	0.73539	0.76000	0.73657		
	0.69373	0.80166					0.75445	5.108
34 Hexachlorocyclopentadiene ++	0.24101	0.34236	0.33443	0.38324	0.33585	0.30027		
	+++++	+++++					0.32286	14.879
35 2,4,6-Trichlorophenol +	0.42642	0.42102	0.41099	0.41139	0.41225	0.42425		
	+++++	+++++					0.41772	1.674
36 2,4,5-Trichlorphenol	0.44788	0.41676	0.44308	0.41193	0.42650	0.44818		
	+++++	+++++					0.43239	3.731
38 2-Chloronaphthalene	1.46001	1.34305	1.27841	1.33460	1.26492	1.30609		
	+++++	+++++					1.33118	5.264
39 2-Nitroaniline	0.54267	0.49734	0.53507	0.51427	0.51102	0.53825		
	+++++	+++++					0.52310	3.466
40 Dimethylphthalate	1.51919	1.37232	1.47667	1.40657	1.41649	1.41587		
	+++++	+++++					1.43452	3.724
41 2,6-Dinitrotoluene	0.33272	0.30233	0.32880	0.31310	0.31872	0.33603		
	+++++	+++++					0.32195	4.014
42 Acenaphthylene	2.06016	2.23581	1.84958	1.83932	1.81088	1.90191		
	+++++	+++++					1.94961	8.516
43 3-Nitroaniline	0.44277	0.39817	0.45195	0.39671	0.39328	0.41281		
	+++++	+++++					0.41595	6.106

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	1.000 Level 7	0.20000 Level 8						
45 Acenaphthene +	1.43117	1.35470	1.34857	1.37256	1.34628	1.36747		
	+++++	+++++					1.37012	2.310
46 2,4-Dinitrophenol ++	+++++	0.15186	0.21532	0.17371	0.18653	0.22265		
	+++++	+++++					0.19002	15.432
47 Dibenzofuran	1.98330	1.87843	1.96332	1.91790	1.94149	1.93630		
	1.76978	+++++					1.91293	3.731
48 2,4-Dinitrotoluene	0.39135	0.39541	0.45481	0.40861	0.42020	0.43650		
	+++++	+++++					0.41781	5.873
49 4-Nitrophenol ++	0.27021	0.29373	0.35199	0.28177	0.28862	0.34134		
	+++++	+++++					0.30461	11.058
50 Diethylphthalate	1.57297	1.43874	1.63677	1.51744	1.53530	1.52950		
	+++++	+++++					1.53845	4.246
51 Fluorene	1.64353	1.59175	1.74653	1.62015	1.69442	1.72098		
	+++++	+++++					1.66956	3.630
52 4-Chlorophenyl-phenylether	0.70782	0.68769	0.75433	0.73694	0.76623	0.79855		
	+++++	+++++					0.74193	5.419
53 4-Nitroaniline	0.38570	0.39834	0.49357	0.40597	0.41098	0.47888		
	0.33094	+++++					0.41491	13.402
54 4,6-Dinitro-o-cresol	0.11567	0.15511	0.17531	0.16184	0.16304	0.17508		
	+++++	+++++					0.15767	13.986

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Curve Type : Average

Compound	10.000 Level 1 / 1.000 Level 7	50.000 Level 2 / 0.20000 Level 8	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
55 N-nitrosodiphenylamine (1)+	0.71811	0.61941	0.60250	0.63281	0.62816	0.59921		
	+++++	+++++					0.63337	6.890
56 Azobenzene	1.96400	1.68336	1.54385	1.61024	1.52022	1.42718		
	+++++	+++++					1.62481	11.522
58 4-Bromophenyl-phenylether	0.24382	0.21591	0.19787	0.22283	0.22631	0.21349		
	+++++	+++++					0.22004	6.934
59 Hexachlorobenzene	0.30521	0.26981	0.26835	0.29010	0.29937	0.28614		
	0.30603	+++++					0.28929	5.399
60 Pentachlorophenol +	+++++	0.15552	0.17116	0.16963	0.16477	0.18228		
	+++++	+++++					0.16867	5.783
62 Phenanthrene	1.35608	1.22484	1.27695	1.25817	1.27450	1.25186		
	+++++	+++++					1.27373	3.494
63 Anthracene	1.31221	1.18826	1.22723	1.22917	1.20720	1.21312		
	+++++	+++++					1.22953	3.510
64 Carbazole	1.34764	1.38852	1.46394	1.43517	1.35133	1.46196		
	+++++	+++++					1.40810	3.760
65 Di-n-butylphthalate	1.49136	1.48117	1.56409	1.51961	1.47528	1.52996		
	+++++	+++++					1.51025	2.255
M 66 Total Methylphenol	3.55719	2.83636	3.21895	2.91592	2.93910	2.94098		
	+++++	+++++					3.06808	8.886

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Curve Type : Average

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67 Fluoranthene +	1.26515	1.37477	1.49245	1.48623	1.39859	1.54210	+++++	+++++	1.42655	7.064	
68 Benzidine	0.07714	0.13772	0.06103	0.06384	0.05308	+++++	+++++	+++++	0.07856	43.519	<-
69 Pyrene	1.60692	1.23388	1.32191	1.25236	1.26189	1.18451	+++++	+++++	1.31024	11.599	
71 Butylbenzylphthalate	0.81618	0.69300	0.69023	0.68547	0.65994	0.62221	+++++	+++++	0.69450	9.404	
72 Benzo(a)anthracene	1.46474	1.39405	1.46002	1.45208	1.42290	1.38527	+++++	+++++	1.42984	2.410	
73 3,3'-Dichlorobenzidine	0.67397	0.65023	0.61844	0.57824	0.56097	0.54936	+++++	+++++	0.60520	8.339	
75 Chrysene	1.37543	1.26984	1.29892	1.29658	1.26826	1.23649	1.68708	+++++	1.34751	11.564	
76 bis(2-Ethylhexyl)phthalate	1.10647	0.97673	0.96446	0.95859	0.90746	0.85034	+++++	+++++	0.96067	8.899	
77 Di-n-octylphthalate +	2.04040	1.86795	1.75251	1.80002	1.68927	1.61027	+++++	+++++	1.79340	8.370	
78 Benzo(b)fluoranthene	1.45708	1.37723	1.65134	1.63061	1.74601	1.84258	+++++	+++++	1.61748	10.778	

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	1.000 Level 7	0.20000 Level 8							
79 Benzo(k)fluoranthene	1.47979	1.36911	1.52669	1.63058	1.64366	1.48533			
	+++++	+++++					1.52253	6.769	
80 Benzo(a)pyrene +	1.35715	1.28705	1.47437	1.48838	1.50970	1.54410			
	1.33543	1.70626					1.46281	9.213	
82 Indeno(1,2,3-cd)pyrene	2.04804	2.02132	2.42437	2.54693	2.60551	2.74827			
	+++++	+++++					2.39907	12.546	
83 Dibenzo(a,h)anthracene	1.68627	1.77630	2.16744	2.26384	2.31642	2.41173			
	1.37856	+++++					2.00008	19.385	
84 Benzo(g,h,i)perylene	1.71903	1.60147	1.88982	1.96383	2.00155	2.06342			
	+++++	+++++					1.87319	9.512	
85 2-Picoline	1.59300	1.47191	1.46439	1.45371	1.51986	1.46517			
	+++++	+++++					1.49467	3.576	<-
86 N-Nitrosomethylethylamine	0.53437	0.56614	0.55718	0.53874	0.50617	0.50656			
	+++++	+++++					0.53486	4.667	<-
87 Methyl methanesulfonate	0.22395	0.19880	0.19975	0.19325	0.19050	0.19092			
	+++++	+++++					0.19953	6.309	<-
88 N-Nitrosodiethylamine	0.87478	0.86157	0.82869	0.80853	0.82718	0.81775			
	+++++	+++++					0.83642	3.106	<-
89 Ethyl methanesulfonate	1.53618	1.44495	1.42070	1.39139	1.38806	1.39580			
	+++++	+++++					1.42951	3.958	<-

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90 Pentachloroethane	0.56705	0.57338	0.54565	0.55051	0.54895	0.54247	+++++	+++++	0.55467	2.257	<-
91 Acetophenone	2.45481	2.05874	2.29690	2.13228	2.09435	2.05326	+++++	+++++	2.18172	7.378	
92 O-Toluidine	1.75487	1.93572	1.86237	1.82724	1.72969	1.60976	+++++	+++++	1.78661	6.389	<-
93 N-Nitrosomorpholine	0.85192	0.79678	0.75542	0.71044	0.67753	0.63223	+++++	+++++	0.73739	10.906	<-
94 N-Nitrosopiperidine	0.21391	0.20862	0.20961	0.20157	0.20000	0.19778	+++++	+++++	0.20525	3.098	<-
95 0,0,0-Triethylphosphorothioat	0.17861	0.17145	0.16388	0.16412	0.16243	0.16152	+++++	+++++	0.16700	4.003	<-
96 Alpha,Alpha-Dimethylphenethyl	0.67826	0.78379	0.75020	0.68669	0.68367	0.69123	+++++	+++++	0.71231	6.160	<-
97 Hexachloropropene	0.21357	0.22431	0.22240	0.22513	0.22809	0.22247	+++++	+++++	0.22266	2.210	<-
98 2,6-Dichlorophenol	0.25500	0.26956	0.26013	0.25313	0.24743	0.25323	+++++	+++++	0.25641	2.971	<-
99 N-Nitrosodi-n-butylamine	0.34399	0.33156	0.32487	0.31151	0.27895	0.27963	+++++	+++++	0.31175	8.739	<-

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	1.000 Level 7	0.20000 Level 8							
100 p-Phenylenediamine	0.10483	0.22994	0.21417	0.19304	0.17507	0.15940			
	+++++	+++++					0.17941	24.838	<-
101 Isosafrole	0.04852	0.04898	0.04653	0.04395	0.04335	0.04287			
	+++++	+++++					0.04570	5.869	<-
102 1,2,4,5-Tetrachlorobenzene	0.31498	0.30756	0.30013	0.29238	0.29399	0.29861			
	+++++	+++++					0.30127	2.848	<-
103 Safrole	1.22610	1.17947	1.13024	1.14179	1.11511	1.02084			
	+++++	+++++					1.13559	6.072	<-
104 1,4-Naphthoquinone	0.21514	0.25622	0.26938	0.25621	0.25336	0.22912			
	+++++	+++++					0.24657	8.201	<-
105 m-Dinitrobenzene	0.20254	0.21754	0.21648	0.21354	0.21596	0.20414			
	+++++	+++++					0.21170	3.130	<-
106 Pentachlorobenzene	0.52048	0.54536	0.51477	0.53152	0.53450	0.52231			
	+++++	+++++					0.52815	2.108	<-
107 2-Napthylamine	0.59801	0.83075	0.78700	0.79688	0.76225	0.66227			
	+++++	+++++					0.73953	12.151	<-
108 2,3,4,6-Tetrachlorophenol	0.17461	0.22370	0.22331	0.23678	0.23804	0.23871			
	+++++	+++++					0.22252	11.015	<-
109 1-Naphthylamine	0.87858	0.95927	0.85718	0.79963	0.77543	0.68107			
	+++++	+++++					0.82520	11.592	<-

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110 Thionazin	0.28673	0.27477	0.26180	0.25509	0.23632	0.22896	+++++	+++++	0.25728	8.586	<-
111 5-Nitro-o-toluidine	0.34918	0.33342	0.29496	0.27544	0.26549	0.25717	+++++	+++++	0.29594	12.725	<-
112 Tetraethyldithiopyrophosphate	0.22462	0.23035	0.22240	0.22808	0.21414	0.21902	+++++	+++++	0.22310	2.667	<-
113 Diallate	0.19732	0.45153	0.42550	0.40876	0.38408	0.36329	+++++	+++++	0.37175	24.441	<-
114 Phorate	0.96815	1.00554	0.96019	0.91527	0.90725	0.84599	+++++	+++++	0.93373	6.017	<-
115 sym-Trinitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
116 Phenacetin	0.49630	0.50034	0.46738	0.44403	0.45305	0.45678	+++++	+++++	0.46965	4.998	<-
117 Dimethoate	0.42225	0.42539	0.39364	0.36192	0.35651	0.34286	+++++	+++++	0.38376	9.179	<-
118 Pentachloronitrobenzene	0.09997	0.10082	0.09631	0.08945	0.09142	0.09143	+++++	+++++	0.09490	5.088	<-
119 4-Aminobiphenyl	0.64074	0.58301	0.57627	0.55138	0.57324	0.57092	+++++	+++++	0.58259	5.218	<-

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Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
120 Pronamide	0.36155	0.36802	0.35234	0.33878	0.33445	0.32453			
	+++++	+++++					0.34661	4.847	<-
121 Dinoseb	0.09062	0.15416	0.14903	0.15708	0.16349	0.16848			
	+++++	+++++					0.14715	19.388	<-
122 Disulfoton	0.64985	0.59058	0.55219	0.52361	0.50398	0.48530			
	+++++	+++++					0.55092	11.076	<-
123 Methyl parathion	0.32956	0.33245	0.31296	0.28867	0.28053	0.27143			
	+++++	+++++					0.30260	8.589	<-
124 4-Nitroquinoline-1-oxide	0.01910	0.03790	0.04627	0.04925	0.05444	0.05761			
	+++++	+++++					0.04410	31.814	<-
125 Parathion	0.19565	0.20333	0.19701	0.18444	0.18105	0.17607			
	+++++	+++++					0.18959	5.597	<-
126 Metapyrilene	0.51748	0.46059	0.39398	0.35431	0.32649	0.30100			
	+++++	+++++					0.39231	21.157	<-
127 Isodrin	0.14310	0.13968	0.13590	0.13222	0.12593	0.12706			
	+++++	+++++					0.13398	5.119	<-
128 Aramite	0.08756	0.09016	0.09753	0.09282	0.09277	0.00041			
	+++++	+++++					0.07687	48.919	<-
129 p-(Dimethylamino)azobenzene	0.48116	0.51420	0.54712	0.52605	0.53427	0.02798			
	+++++	+++++					0.43846	46.148	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1 / 1.000 Level 7	50.000 Level 2 / 0.20000 Level 8	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
130 Chlorobenzilate	0.41464	0.43505	0.45450	0.43158	0.43777	0.00036	0.36232	49.068	<-
	+++++	+++++							
131 Famphur	0.48055	0.36761	0.26025	0.19366	0.13615	+++++	0.28764	47.965	<-
	+++++	+++++							
132 3,3'-Dimethyl benzidine	0.22246	0.42206	0.41998	0.40344	0.38884	0.00787	0.31077	53.562	<-
	+++++	+++++							
133 2-Acetylaminofluorene	0.58535	0.61071	0.60577	0.61042	0.62318	0.00019	0.50594	49.031	<-
	+++++	+++++							
134 7,12-Dimethylbenz(a)anthracen	0.16649	0.16569	0.17135	0.19487	0.18944	0.64538	0.25554	74.891	<-
	+++++	+++++							
135 Hexachlorophene	+++++	0.00003	0.00017	0.00673	0.00971	0.01476	0.00628	100.800	<-
	+++++	+++++							
136 3-Methyl cholanthrene	0.56929	0.63004	0.64000	0.64950	0.65603	0.65869	0.63392	5.267	<-
	+++++	+++++							
137 Acrylamide	0.41229	0.34460	0.36171	0.35482	0.43478	+++++	0.38164	10.360	<-
	+++++	+++++							
138 N-Nitrosopyrrolidine	0.66477	0.59906	0.61115	0.56115	0.59702	+++++	0.60663	6.178	<-
	+++++	+++++							
139 Pthalic Acid & Anhydride	0.23226	0.18902	0.19363	0.18252	0.16888	+++++	0.19326	12.268	<-
	+++++	+++++							

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	1.000 Level 7	0.20000 Level 8	___ RRF	% RSD	
140 1,4-Dinitrobenzene	0.37237	0.37212	0.40353	0.38023	0.39777	++++++	++++++	++++++	0.38520	3.795	<-
141 Kepone	0.06321	0.06382	0.08553	0.07910	0.08653	++++++	++++++	++++++	0.07564	15.115	<-
142 4,4Methylenebis2chloroanaline	0.23812	0.22975	0.23031	0.23637	0.24850	++++++	++++++	++++++	0.23661	3.208	<-
143 Tris2,3Dibromopropylphosphate	0.06282	0.10197	0.11262	0.12329	0.12584	++++++	++++++	++++++	0.10531	24.280	<-
144 Maleic Anhydride	0.61930	0.29701	++++++	++++++	++++++	++++++	++++++	++++++	0.45815	49.742	<-
145 1-Methylnapthalene	0.75151	0.65763	0.71569	0.68570	0.70171	0.69133	0.67496	0.81373	0.71153	7.022	
M 146 Total Methylnapthalene	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
147 N-methyldiethanolamine	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
148 A-Terpineol	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-
149 3-Chlorophenol	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	1.000 Level 7	0.20000 Level 8	___ RRF	% RSD	
150 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
151 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
152 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
153 3,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
154 Dimethyl Benzyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
155 Benzaldehyde	1.78396	1.08100	0.49439	0.37775	0.22868	0.11224	+++++	+++++	0.67967	93.781	<-
156 Caprolactam	0.12077	0.09845	0.13483	0.09830	0.10977	0.10303	+++++	+++++	0.11086	13.054	
157 Biphenyl	0.95344	0.84238	0.95211	0.88976	0.92242	0.91128	+++++	+++++	0.91190	4.595	
158 Atrazine	0.13510	0.12508	0.04142	0.04557	0.04191	0.02445	+++++	+++++	0.06892	69.710	<-
159 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
169 Benzenethiol	0.07202	0.13770	0.04870	0.05106	0.05017	1.97176			
	++++++	++++++					0.38857	199.796	<-
170 Indene	0.00883	0.01103	0.00957	0.01047	0.01391	++++++			
	++++++	++++++					0.01076	18.109	<-
171 Quinoline	0.91459	0.78552	0.84622	0.87663	0.90155	++++++			
	++++++	++++++					0.86490	5.952	<-
172 Methyl Chrysene	0.36604	0.31123	0.31854	0.41587	0.36863	++++++			
	++++++	++++++					0.35606	11.958	<-
173 Dibenz(a,h)acridine	0.30932	0.28466	0.42975	0.44644	0.52107	++++++			
	++++++	++++++					0.39825	24.861	<-
174 1,4-Dioxane	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-
175 2,4and/or2,6-Diaminotoluene	1.44671	1.15217	1.10025	0.93360	0.73682	++++++			
	++++++	++++++					1.07391	24.598	<-
185 2,3and/or3,4 Diaminotoluene	1.29303	0.83533	1.00008	0.46630	0.57430	++++++			
	++++++	++++++					0.83381	39.820	<-
176 4-t-Butyl Phenol	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-
177 1,2,3,4-Tetrachlorobenzene	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
178 2-Phenyl Phenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
179 Ronnel	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
180 Hexabromobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
181 Tolylene 2,6-Diisocyanate	1.14505	1.11080	1.01507	1.09262	1.04950	+++++			
	+++++	+++++					1.08261	4.722	<-
182 Tolylene 2,4-Diisocyanate	0.87076	0.81155	0.79549	0.75592	0.80173	+++++			
	+++++	+++++					0.80709	5.129	<-
183 Tolylene 2,5-diisocyanate	1.32676	1.27265	1.16049	1.19200	1.22783	+++++			
	+++++	+++++					1.23594	5.319	<-
M 184 Tolylene Diisocyanate	1.11419	1.06500	0.99035	1.01351	1.02635	+++++			
	+++++	+++++					1.04188	4.669	<-
186 Benzothiazole	0.50510	0.48358	0.47281	0.48842	0.48484	0.45579			
	+++++	+++++					0.48176	3.419	<-
187 2-3H Benzothiazolone	0.30423	0.28483	0.28184	0.29471	0.27550	0.26564			
	+++++	+++++					0.28446	4.813	<-
188 2-3H Benzothiazolethione	0.15007	0.22751	0.30682	0.36716	0.37347	0.35551			
	+++++	+++++					0.29676	30.404	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-NOV-2004 10:15
End Cal Date : 27-DEC-2004 11:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Cal Date : 03-Jan-2005 10:29 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
189 2-tet-Butyl-4-methylphenol	0.78182 +++++	0.70719 +++++	0.71943	0.74340	0.71935	0.72785	0.73317	3.637	<-
190 Methylbenzothiazole	0.49794 +++++	0.49649 +++++	0.46670	0.48756	0.49401	0.45625	0.48316	3.618	<-
$ 3 2-Fluorophenol	1.66092 +++++	1.43897 +++++	1.46421	1.35945	1.32513	1.34398	1.43211	8.717	
$ 4 Phenol-d5	2.48714 +++++	2.08588 +++++	2.30008	2.08023	2.05780	2.08891	2.18334	7.952	
$ 19 Nitrobenzene-d5	0.68141 +++++	0.61071 +++++	0.60737	0.58224	0.57808	0.57362	0.60557	6.648	
$ 37 2-Fluorobiphenyl	1.65712 +++++	1.57407 +++++	1.50242	1.55884	1.48405	1.51180	1.54805	4.104	
$ 57 2,4,6-Tribromophenol	0.19224 +++++	0.20445 +++++	0.25199	0.21663	0.24064	0.25566	0.22693	11.586	
$ 70 Terphenyl-d14	0.95585 +++++	0.74945 +++++	0.83950	0.80762	0.81647	0.75705	0.82099	9.104	

Data File: /var/chem/MSSV1.i/2041227.s.b/a8554.d

Date : 27-DEC-2004 08:17

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100ng4-16-3

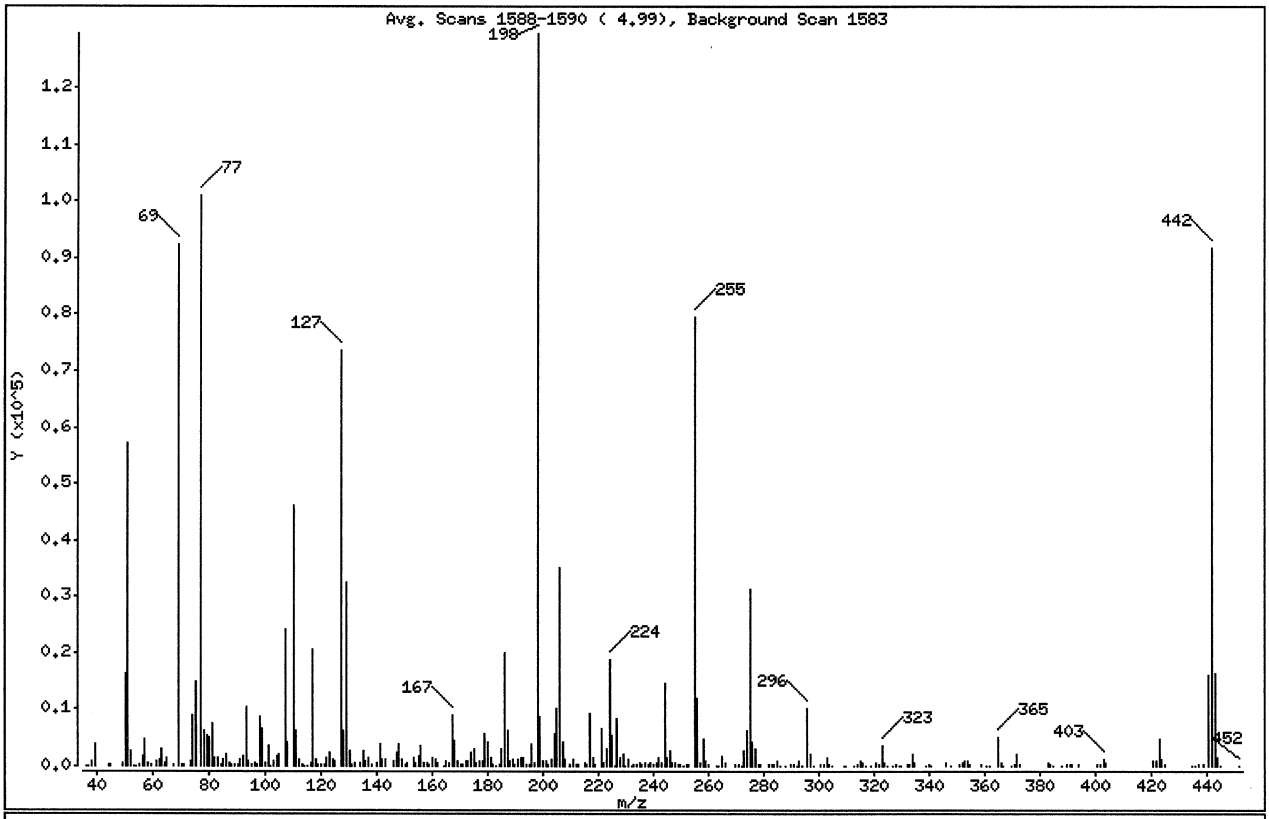
Volume Injected (uL): 1.0

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	44.15
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.19
70	Less than 2.00% of mass 69	0.27 (0.38)
127	40.00 - 60.00% of mass 198	56.82
197	Less than 1.00% of mass 198	0.44
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 30.00% of mass 198	24.15
365	Greater than 1.00% of mass 198	3.87
441	Present, but less than mass 443	12.34
442	40.00 - 100.00% of mass 198	70.88
443	17.00 - 23.00% of mass 442	12.55 (17.71)

Data File: /var/chem/MSSV1.i/2041227.s.b/a8554.d

Date : 27-DEC-2004 08:17

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100%4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8554.d
Spectrum: Avg. Scans 1588-1590 (4.99), Background Scan 1583
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	86	127.00	73632	210.00	301	301.00	263
37.00	139	128.00	6285	211.00	1249	302.00	214
38.00	860	129.00	32496	212.00	333	303.00	1415
39.00	3829	130.00	2541	213.00	273	304.00	320
44.00	149	131.00	435	215.00	531	305.00	62
45.00	297	132.00	644	216.00	346	309.00	83
49.00	588	134.00	716	217.00	9337	310.00	66
50.00	16520	135.00	2589	218.00	1526	313.00	87
51.00	57216	136.00	967	219.00	167	314.00	416
52.00	2808	137.00	1549	221.00	6537	315.00	984
53.00	67	138.00	387	222.00	488	316.00	711
54.00	101	140.00	666	223.00	2837	317.00	119
55.00	333	141.00	3924	224.00	18904	319.00	93
56.00	1902	142.00	1076	225.00	5259	321.00	663
57.00	4905	143.00	1254	226.00	119	322.00	280
58.00	474	146.00	820	227.00	8243	323.00	3428
59.00	189	147.00	2423	228.00	1424	324.00	689
61.00	868	148.00	3932	229.00	2055	325.00	65
62.00	1173	149.00	1224	230.00	61	327.00	138
63.00	2935	150.00	323	231.00	1052	328.00	255
64.00	537	151.00	729	232.00	70	329.00	116
65.00	1412	153.00	1635	233.00	329	330.00	134
67.00	416	154.00	634	234.00	398	332.00	350
69.00	92264	155.00	1737	235.00	503	333.00	311
70.00	355	156.00	3484	236.00	172	334.00	1957
71.00	188	157.00	474	237.00	727	335.00	479
73.00	945	158.00	688	238.00	158	339.00	55
74.00	8906	159.00	310	239.00	558	340.00	273
75.00	14758	160.00	1451	240.00	318	341.00	110
77.00	100960	161.00	1055	241.00	650	346.00	673
78.00	6186	162.00	541	242.00	1528	348.00	60
79.00	5446	164.00	130	243.00	670	351.00	237
80.00	5115	165.00	1024	244.00	14655	352.00	614
81.00	7554	166.00	620	245.00	1502	353.00	746
82.00	1512	167.00	8987	246.00	2547	354.00	948

Data File: /var/chem/MSSV1.i/2041227.s.b/a8554.d

Date : 27-DEC-2004 08:17

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100ng4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8554.d
Spectrum: Avg. Scans 1588-1590 (4.99), Background Scan 1583
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	1513	168.00	4441	247.00	492	355.00	214
84.00	402	169.00	860	248.00	536	359.00	349
85.00	1137	170.00	264	249.00	437	361.00	67
86.00	2205	171.00	355	250.00	212	362.00	114
87.00	744	172.00	877	251.00	56	365.00	5014
88.00	441	173.00	777	252.00	323	366.00	595
89.00	149	174.00	2274	253.00	265	367.00	140
90.00	159	175.00	2897	255.00	79400	370.00	84
91.00	1299	176.00	695	256.00	12051	371.00	246
92.00	1909	177.00	784	257.00	628	372.00	1939
93.00	10324	178.00	798	258.00	4729	373.00	363
94.00	951	179.00	5620	259.00	885	383.00	490
95.00	412	180.00	4114	260.00	167	384.00	149
96.00	590	181.00	1565	263.00	61	385.00	66
97.00	234	182.00	241	264.00	140	388.00	72
98.00	8530	183.00	68	265.00	1799	390.00	149
99.00	6544	184.00	411	266.00	588	391.00	285
100.00	631	185.00	2878	270.00	216	392.00	152
101.00	3501	186.00	19936	271.00	193	394.00	261
102.00	103	187.00	6279	272.00	119	401.00	200
103.00	880	188.00	803	273.00	2615	402.00	431
104.00	1810	189.00	1191	274.00	6180	403.00	1162
105.00	2103	190.00	177	275.00	31288	404.00	521
107.00	24200	191.00	1044	276.00	4318	421.00	968
108.00	4311	192.00	1537	277.00	2884	422.00	841
110.00	46080	193.00	1593	278.00	406	423.00	4743
111.00	6142	194.00	437	279.00	178	424.00	1116
112.00	1134	195.00	221	282.00	193	425.00	179
113.00	311	196.00	3943	283.00	232	435.00	138
114.00	81	197.00	564	284.00	377	436.00	63
115.00	92	198.00	129600	285.00	773	437.00	189
116.00	737	199.00	8534	286.00	97	439.00	254
117.00	20440	200.00	821	288.00	114	441.00	15994
118.00	1329	201.00	856	290.00	163	442.00	91864
119.00	209	202.00	208	291.00	161	443.00	16267

Data File: /var/chem/MSSV1.i/2041227.s.b/a8554.d

Date : 27-DEC-2004 08:17

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100*4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8554.d
Spectrum: Avg. Scans 1588-1590 (4.99), Background Scan 1583
Location of Maximum: 198.00
Number of points: 301

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	285	203.00	1323	292.00	85	444.00	1450
121.00	400	204.00	5695	293.00	841	445.00	144
122.00	1577	205.00	10049	294.00	74	452.00	119
123.00	2312	206.00	35304	296.00	10079		
124.00	1080	207.00	4192	297.00	1980		
125.00	821	208.00	1176	298.00	88		

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2041227.s.b/a8555.d
Lab Smp Id: 1202 Client Smp ID: STD050
Inj Date : 27-DEC-2004 08:55
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1202*4-16-5
Misc Info : STD050*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 12:37 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 2 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/(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	0.579	0.579	(0.280)	72330	50.0000	51.6
1 n-Nitrosodimethylamine	42	0.570	0.570	(0.276)	20976	50.0000	50.5
$ 3 2-Fluorophenol	112	1.229	1.229	(0.596)	278949	50.0000	50.2
$ 4 Phenol-d5	99	1.915	1.915	(0.928)	404355	50.0000	47.8
5 Aniline	93	1.870	1.870	(0.906)	404207	50.0000	61.3
6 Phenol +	94	1.924	1.924	(0.933)	404082	50.0000	46.2
7 bis(-2-Chloroethyl)Ether	63	1.904	1.904	(0.923)	280811	50.0000	51.1
8 2-Chlorophenol	128	1.961	1.961	(0.950)	273933	50.0000	48.6
9 1,3-Dichlorobenzene	146	2.026	2.026	(0.982)	331811	50.0000	49.3
* 10 1,4-Dichlorobenzene-d4	152	2.063	2.063	(1.000)	155083	40.0000	
11 1,4-Dichlorobenzene +	146	2.074	2.074	(1.006)	322666	50.0000	48.3
12 Benzyl alcohol	108	2.174	2.174	(1.054)	199563	50.0000	46.9
13 1,2-Dichlorobenzene	146	2.168	2.168	(1.051)	309695	50.0000	48.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	15 2-Methylphenol	108	2.276	2.276	(1.103)	268477	50.0000	46.3
	14 Bis(2-chloroisopropyl)ether	45	2.239	2.239	(1.085)	253573	50.0000	48.0
	17 3- & 4-Methylphenol	108	2.370	2.370	(1.149)	281362	50.0000	46.2
	16 N-Nitroso-di-n-propylamine++	70	2.324	2.324	(1.127)	278173	50.0000	46.8
	18 Hexachloroethane	117	2.367	2.367	(1.147)	152454	50.0000	48.4
$	19 Nitrobenzene-d5	82	2.415	2.415	(0.850)	403777	50.0000	50.4
	20 Nitrobenzene	77	2.426	2.426	(0.854)	429494	50.0000	50.9
	21 Isophorone	82	2.568	2.568	(0.904)	654028	50.0000	48.8
	22 2-Nitrophenol +	139	2.619	2.619	(0.922)	135664	50.0000	49.3
	23 2,4-Dimethyphenol	107	2.670	2.670	(0.940)	328021	50.0000	48.2
	24 bis(-2-Chloroethoxy)methane	93	2.702	2.702	(0.951)	362072	50.0000	48.3
	25 Benzoic Acid	122	2.770	2.770	(0.975)	126696	50.0000	44.3
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.982)	190980	50.0000	47.2
	27 1,2,4-Trichlorobenzene	180	2.807	2.807	(0.988)	231526	50.0000	49.6
*	28 Naphthalene-d8	136	2.841	2.841	(1.000)	528931	40.0000	
	29 Naphthalene	128	2.852	2.852	(1.004)	792341	50.0000	49.6
	30 4-Chloroaniline	127	2.903	2.903	(1.022)	283250	50.0000	57.1
	31 Hexachlorobutadiene +	225	2.920	2.920	(1.028)	161674	50.0000	49.9
	32 4-Chloro-3-Methylphenol +	107	3.235	3.235	(1.139)	237337	50.0000	45.3
	33 2-Methylnaphthalene	142	3.272	3.272	(1.152)	479341	50.0000	48.0
	145 1-Methylnapthalene	142	3.329	3.329	(1.172)	434799	50.0000	46.2
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	103445	50.0000	53.0
	35 2,4,6-Trichlorophenol +	196	3.462	3.462	(0.887)	127211	50.0000	50.4
	36 2,4,5-Trichlorphenol	196	3.508	3.508	(0.898)	125925	50.0000	48.2
$	37 2-Fluorobiphenyl	172	3.496	3.496	(0.895)	475609	50.0000	50.8
	38 2-Chloronaphthalene	162	3.567	3.567	(0.914)	405806	50.0000	50.4
	39 2-Nitroaniline	138	3.650	3.650	(0.935)	150272	50.0000	47.5
	40 Dimethylphthalate	163	3.749	3.749	(0.960)	414651	50.0000	47.8
	41 2,6-Dinitrotoluene	165	3.794	3.794	(0.972)	91349	50.0000	47.0
	42 Acenaphthylene	152	3.820	3.820	(0.978)	675555	50.0000	57.3
	43 3-Nitroaniline	138	3.905	3.905	(1.000)	120307	50.0000	47.9
*	44 Acenaphthene-d10	164	3.905	3.905	(1.000)	241722	40.0000	
	45 Acenaphthene +	153	3.925	3.925	(1.005)	409327	50.0000	49.4
	46 2,4-Dinitrophenol ++	184	3.967	3.967	(1.016)	45886	50.0000	40.0
	49 4-Nitrophenol ++	109	4.087	4.087	(1.047)	88752	50.0000	48.2
	47 Dibenzofuran	168	4.033	4.033	(1.033)	567572	50.0000	49.1
	48 2,4-Dinitrotoluene	165	4.041	4.041	(1.035)	119473	50.0000	47.3
	50 Diethylphthalate	149	4.180	4.180	(1.070)	434718	50.0000	46.8
	52 4-Chlorophenyl-phenylether	204	4.243	4.243	(1.086)	207786	50.0000	46.3
	51 Fluorene	166	4.243	4.243	(1.086)	480951	50.0000	47.7
	53 4-Nitroaniline	138	4.285	4.285	(1.097)	120359	50.0000	48.0
	54 4,6-Dinitro-o-cresol	198	4.294	4.294	(0.891)	74537	50.0000	49.2
	55 N-nitrosodiphenylamine (1)+	169	4.322	4.322	(0.897)	297652	50.0000	48.9
	56 Azobenzene	77	4.339	4.339	(0.900)	808929	50.0000	51.8
$	57 2,4,6-Tribromophenol	332	4.399	4.399	(1.126)	61775	50.0000	45.0
	58 4-Bromophenyl-phenylether	248	4.541	4.541	(0.942)	103755	50.0000	49.1
	59 Hexachlorobenzene	284	4.578	4.578	(0.950)	129656	50.0000	46.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	60 Pentachlorophenol +	266	4.720	4.720	(0.979)	74734	50.0000	46.1
*	61 Phenanthrene-d10	188	4.819	4.819	(1.000)	384435	40.0000	
	62 Phenanthrene	178	4.833	4.833	(1.003)	588587	50.0000	48.1
	63 Anthracene	178	4.864	4.864	(1.009)	571012	50.0000	48.3
	64 Carbazole	167	4.978	4.978	(1.033)	667246	50.0000	49.3
	65 Di-n-butylphthalate	149	5.182	5.182	(1.075)	711767	50.0000	49.0
	67 Fluoranthene +	202	5.585	5.585	(1.159)	660638	50.0000	48.2
	68 Benzidine	184	5.690	5.690	(0.856)	76622	50.0000	87.7
	69 Pyrene	202	5.739	5.739	(0.863)	686466	50.0000	47.1
$	70 Terphenyl-d14	244	5.849	5.849	(0.880)	416952	50.0000	45.6
	71 Butylbenzylphthalate	149	6.215	6.215	(0.935)	385547	50.0000	49.9
	73 3,3'-Dichlorobenzidine	252	6.635	6.635	(0.998)	361755	50.0000	53.7
	72 Benzo(a)anthracene	228	6.638	6.638	(0.999)	775576	50.0000	48.7
*	74 Chrysene-d12	240	6.647	6.647	(1.000)	445078	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.667	6.667	(1.003)	543399	50.0000	50.8
	75 Chrysene	228	6.670	6.670	(1.003)	706470	50.0000	47.1
	77 Di-n-octylphthalate +	149	7.195	7.195	(1.082)	1039231	50.0000	52.1
	78 Benzo(b)fluoranthene	252	7.495	7.495	(0.962)	883863	50.0000	42.6
	79 Benzo(k)fluoranthene	252	7.518	7.518	(0.965)	878655	50.0000	45.0
	80 Benzo(a)pyrene +	252	7.748	7.748	(0.995)	825989	50.0000	44.0
*	81 Perylene-d12	264	7.791	7.791	(1.000)	513415	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.568	8.568	(1.100)	1297218	50.0000	42.1
	83 Dibenzo(a,h)anthracene	278	8.577	8.577	(1.101)	1139976	50.0000	44.4
	84 Benzo(g,h,i)perylene	276	8.770	8.770	(1.126)	1027774	50.0000	42.7
M	66 Total Methylphenol	108				549839	50.0000	46.2
	91 Acetophenone	105	2.321	2.321	(1.125)	399095	50.0000	47.2
	155 Benzaldehyde	77	1.791	1.791	(0.868)	209555	50.0000	79.5
	156 Caprolactam	113	3.125	3.125	(1.100)	65090	50.0000	44.4
	157 Biphenyl	154	3.556	3.556	(1.252)	556949	50.0000	46.2
	158 Atrazine	200	4.657	4.657	(0.966)	60108	50.0000	90.7

Data File: /var/chem/MSSV1.i/2041227.s.b/a8555.d

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Date : 27-DEC-2004 08:55

Client ID: STD050

Instrument: MSSV1.i

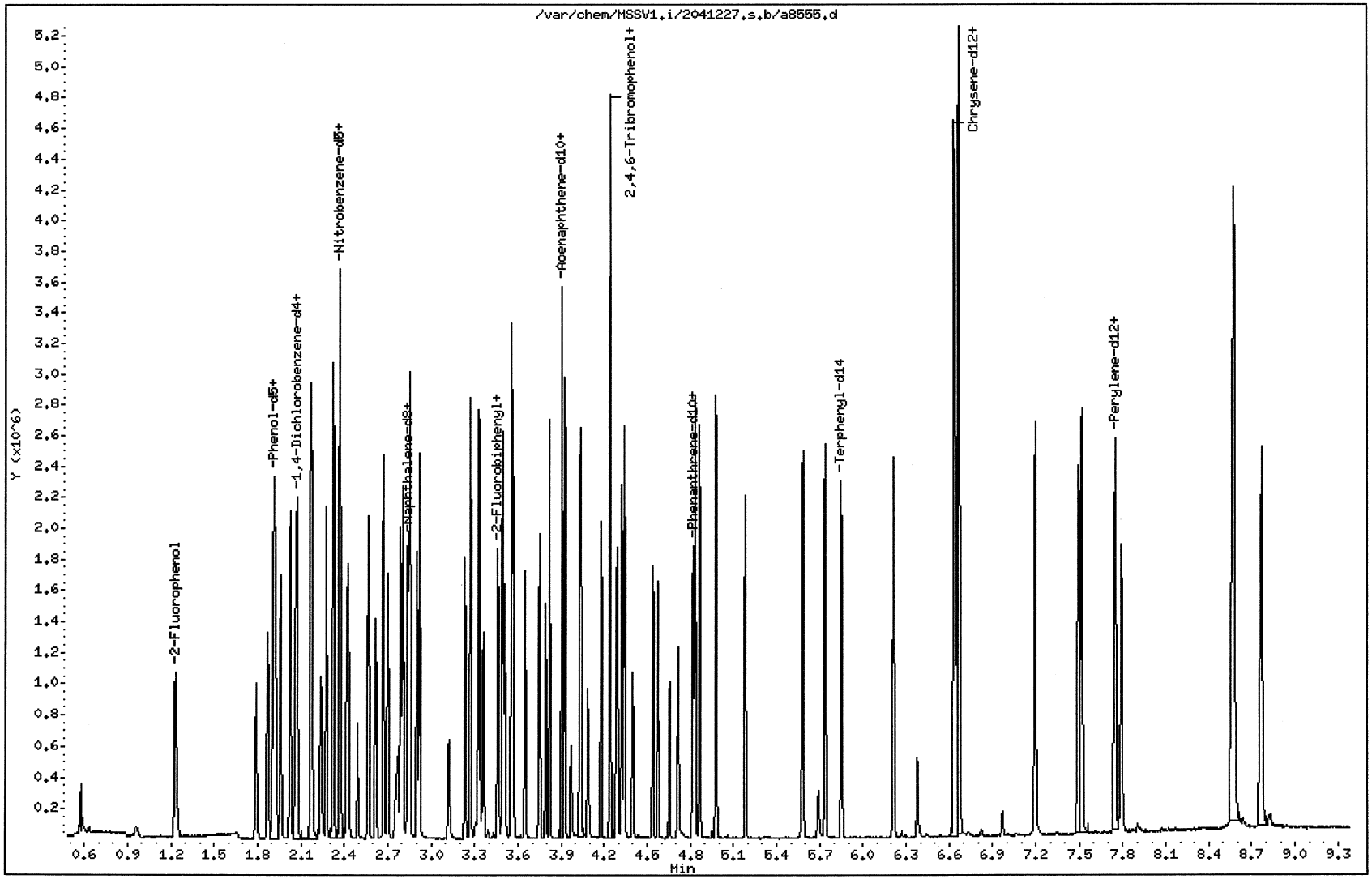
Sample Info: 1202*4-16-5

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

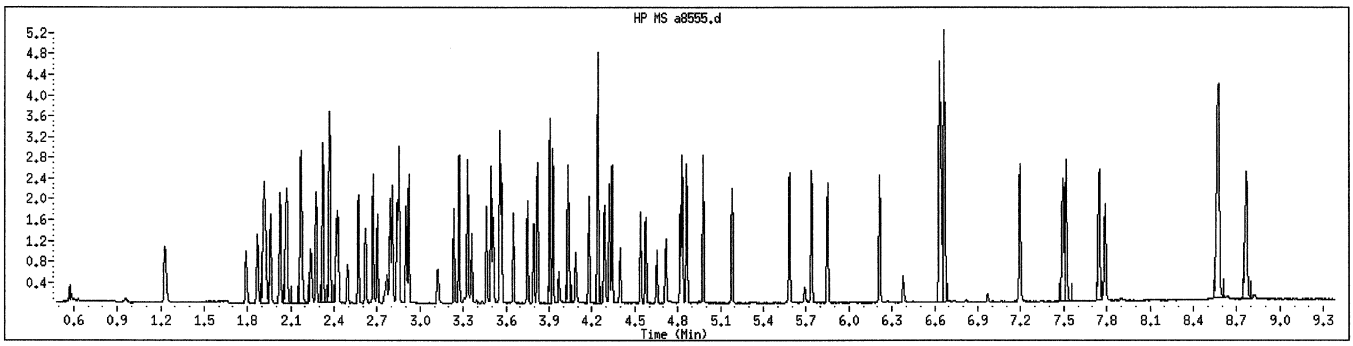
Column diameter: 0.25



Data file : /var/chem/MSSV1.i/2041227.s.b/a8555.d
Report Date: 12/27/2004 12:37

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1202	SampleType	: CALIB_2
Injection Date	: 27-DEC-2004 08:55	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1202*4-16-5		
Misc Info	: STD050*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.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/MSSV1.i/2041227.s.b/a8556.d
Lab Smp Id: 1201 Client Smp ID: STD010
Inj Date : 27-DEC-2004 09:15
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1201*4-16-4
Misc Info : STD010*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:29 Cal File: a8367.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.585	0.579	(0.283)	20039	10.0000	10.0
1 n-Nitrosodimethylamine	42	0.570	0.570	(0.276)	5843	10.0000	10.2
$ 3 2-Fluorophenol	112	1.234	1.229	(0.598)	90212	10.0000	11.0
$ 4 Phenol-d5	99	1.916	1.915	(0.928)	135088	10.0000	11.0
5 Aniline	93	1.867	1.870	(0.905)	152596	10.0000	16.0
6 Phenol +	94	1.924	1.924	(0.933)	141724	10.0000	11.1
7 bis(-2-Chloroethyl)Ether	63	1.907	1.904	(0.924)	81379	10.0000	10.3
8 2-Chlorophenol	128	1.961	1.961	(0.950)	87390	10.0000	10.9
9 1,3-Dichlorobenzene	146	2.026	2.026	(0.982)	108283	10.0000	11.4
* 10 1,4-Dichlorobenzene-d4	152	2.063	2.063	(1.000)	217258	40.0000	
11 1,4-Dichlorobenzene +	146	2.075	2.074	(1.006)	105319	10.0000	11.2
12 Benzyl alcohol	108	2.174	2.174	(1.054)	67235	10.0000	11.0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
13 1,2-Dichlorobenzene	146	2.168	2.168	(1.051)	100079	10.0000	11.1
15 2-Methylphenol	108	2.273	2.276	(1.102)	95955	10.0000	11.4
14 Bis(2-chloroisopropyl)ether	45	2.239	2.239	(1.085)	83573	10.0000	10.9
17 3- & 4-Methylphenol	108	2.370	2.370	(1.149)	97252	10.0000	11.2
16 N-Nitroso-di-n-propylamine++	70	2.322	2.324	(1.125)	96069	10.0000	11.5
18 Hexachloroethane	117	2.367	2.367	(1.147)	51114	10.0000	11.9
$ 19 Nitrobenzene-d5	82	2.415	2.415	(0.851)	135552	10.0000	11.2
20 Nitrobenzene	77	2.427	2.426	(0.855)	146969	10.0000	11.5
21 Isophorone	82	2.566	2.568	(0.904)	231531	10.0000	11.6
22 2-Nitrophenol +	139	2.617	2.619	(0.922)	44160	10.0000	10.6
23 2,4-Dimethyphenol	107	2.671	2.670	(0.941)	110710	10.0000	10.8
24 bis(-2-Chloroethoxy)methane	93	2.702	2.702	(0.952)	123585	10.0000	11.1
25 Benzoic Acid	122	2.750	2.770	(0.969)	40351	10.0000	9.83
26 2,4-Dichlorophenol +	162	2.790	2.790	(0.983)	65537	10.0000	11.0
27 1,2,4-Trichlorobenzene	180	2.804	2.807	(0.988)	76593	10.0000	11.1
* 28 Naphthalene-d8	136	2.838	2.841	(1.000)	795713	40.0000	
29 Naphthalene	128	2.852	2.852	(1.005)	265889	10.0000	11.1
30 4-Chloroaniline	127	2.901	2.903	(1.022)	105799	10.0000	14.0
31 Hexachlorobutadiene +	225	2.920	2.920	(1.029)	50705	10.0000	10.8
32 4-Chloro-3-Methylphenol +	107	3.233	3.235	(1.139)	83292	10.0000	10.8
33 2-Methylnaphthalene	142	3.269	3.272	(1.152)	159106	10.0000	10.9
145 1-Methylnapthalene	142	3.329	3.329	(1.173)	149497	10.0000	10.6
34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	23749	10.0000	7.74
35 2,4,6-Trichlorophenol +	196	3.462	3.462	(0.887)	42019	10.0000	10.4
36 2,4,5-Trichlorphenol	196	3.508	3.508	(0.898)	44134	10.0000	10.5
$ 37 2-Fluorobiphenyl	172	3.494	3.496	(0.895)	163291	10.0000	11.0
38 2-Chloronaphthalene	162	3.565	3.567	(0.913)	143868	10.0000	11.1
39 2-Nitroaniline	138	3.650	3.650	(0.935)	53474	10.0000	10.2
40 Dimethylphthalate	163	3.746	3.749	(0.959)	149699	10.0000	10.9(M)
41 2,6-Dinitrotoluene	165	3.792	3.794	(0.971)	32786	10.0000	10.5
42 Acenaphthylene	152	3.817	3.820	(0.977)	203006	10.0000	10.6
43 3-Nitroaniline	138	3.902	3.905	(0.999)	43630	10.0000	10.5
* 44 Acenaphthene-d10	164	3.905	3.905	(1.000)	394156	40.0000	
45 Acenaphthene +	153	3.925	3.925	(1.005)	141026	10.0000	10.5
46 2,4-Dinitrophenol ++	184	3.971	3.967	(1.017)	8748	10.0000	4.74
49 4-Nitrophenol ++	109	4.087	4.087	(1.046)	26626	10.0000	9.04
47 Dibenzofuran	168	4.030	4.033	(1.032)	195432	10.0000	10.4
48 2,4-Dinitrotoluene	165	4.039	4.041	(1.034)	38563	10.0000	9.31
50 Diethylphthalate	149	4.178	4.180	(1.070)	154999	10.0000	10.7
52 4-Chlorophenyl-phenylether	204	4.240	4.243	(1.086)	69748	10.0000	10.1
51 Fluorene	166	4.240	4.243	(1.086)	161952	10.0000	10.1
53 4-Nitroaniline	138	4.280	4.285	(1.096)	38006	10.0000	9.14
54 4,6-Dinitro-o-cresol	198	4.288	4.294	(0.890)	16839	10.0000	7.37
55 N-nitrosodiphenylamine (1)+	169	4.320	4.322	(0.897)	104545	10.0000	11.5
56 Azobenzene	77	4.340	4.339	(0.901)	285927	10.0000	12.3
$ 57 2,4,6-Tribromophenol	332	4.399	4.399	(1.126)	18943	10.0000	8.71
58 4-Bromophenyl-phenylether	248	4.541	4.541	(0.943)	35496	10.0000	11.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	59 Hexachlorobenzene	284	4.575	4.578	(0.950)	44434	10.0000	10.9
	60 Pentachlorophenol +	266	4.717	4.720	(0.979)	17163	10.0000	7.24
*	61 Phenanthrene-d10	188	4.816	4.819	(1.000)	582336	40.0000	
	62 Phenanthrene	178	4.833	4.833	(1.004)	197423	10.0000	10.7
	63 Anthracene	178	4.862	4.864	(1.009)	191037	10.0000	10.7
	64 Carbazole	167	4.978	4.978	(1.034)	196195	10.0000	9.64
	65 Di-n-butylphthalate	149	5.180	5.182	(1.075)	217118	10.0000	10.4
	67 Fluoranthene +	202	5.583	5.585	(1.159)	184185	10.0000	9.07
	68 Benzidine	184	5.688	5.690	(0.856)	9032	10.0000	10.6(M)
	69 Pyrene	202	5.739	5.739	(0.864)	188154	10.0000	11.6
$	70 Terphenyl-d14	244	5.847	5.849	(0.880)	111920	10.0000	11.5
	71 Butylbenzylphthalate	149	6.213	6.215	(0.935)	95566	10.0000	12.0
	73 3,3'-Dichlorobenzidine	252	6.630	6.635	(0.998)	78915	10.0000	11.7
	72 Benzo(a)anthracene	228	6.636	6.638	(0.999)	171506	10.0000	10.4
*	74 Chrysene-d12	240	6.644	6.647	(1.000)	468360	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.667	6.667	(1.003)	129557	10.0000	12.5
	75 Chrysene	228	6.664	6.670	(1.003)	161049	10.0000	10.5
	77 Di-n-octylphthalate +	149	7.195	7.195	(1.083)	238910	10.0000	12.7
	78 Benzo(b)fluoranthene	252	7.490	7.495	(0.962)	189167	10.0000	9.47
	79 Benzo(k)fluoranthene	252	7.510	7.518	(0.964)	192115	10.0000	9.67
	80 Benzo(a)pyrene +	252	7.740	7.748	(0.994)	176194	10.0000	10.0
*	81 Perylene-d12	264	7.788	7.791	(1.000)	519305	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.557	8.568	(1.099)	265890	10.0000	8.82
	83 Dibenzo(a,h)anthracene	278	8.566	8.577	(1.100)	218922	10.0000	9.13
	84 Benzo(g,h,i)perylene	276	8.756	8.770	(1.124)	223175	10.0000	9.18
M	66 Total Methylphenol	108				193207	10.0000	11.3
	91 Acetophenone	105	2.322	2.321	(1.125)	133332	10.0000	11.0
	155 Benzaldehyde	77	1.791	1.791	(0.868)	96895	10.0000	26.3
	156 Caprolactam	113	3.111	3.125	(1.096)	24025	10.0000	10.9
	157 Biphenyl	154	3.553	3.556	(1.252)	189667	10.0000	10.9
	158 Atrazine	200	4.655	4.657	(0.966)	19669	10.0000	19.5

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2041227.s.b/a8556.d

Date : 27-DEC-2004 09:15

Client ID: STD010

Instrument: MSSV1.i

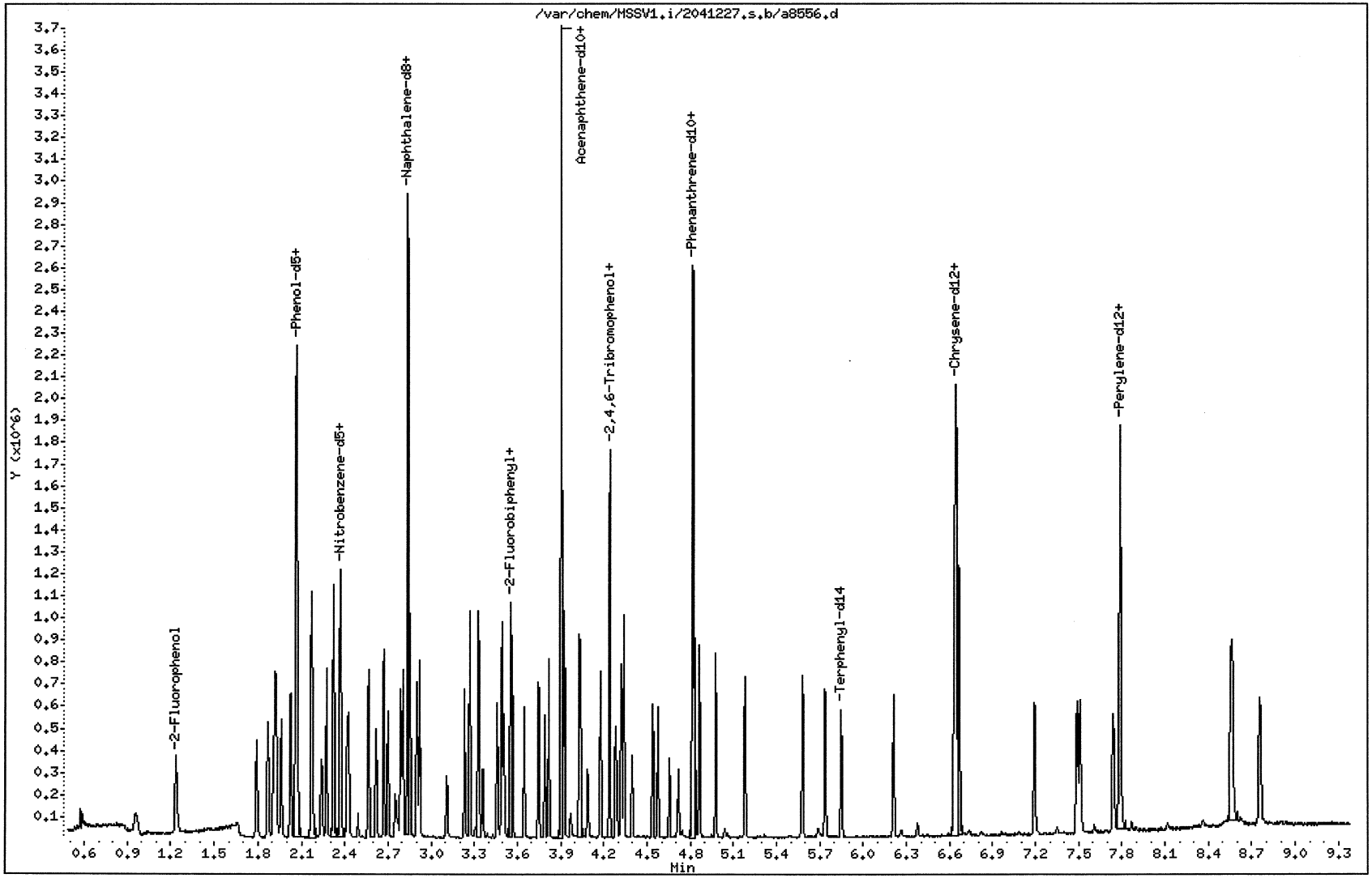
Sample Info: 1201*4-16-4

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

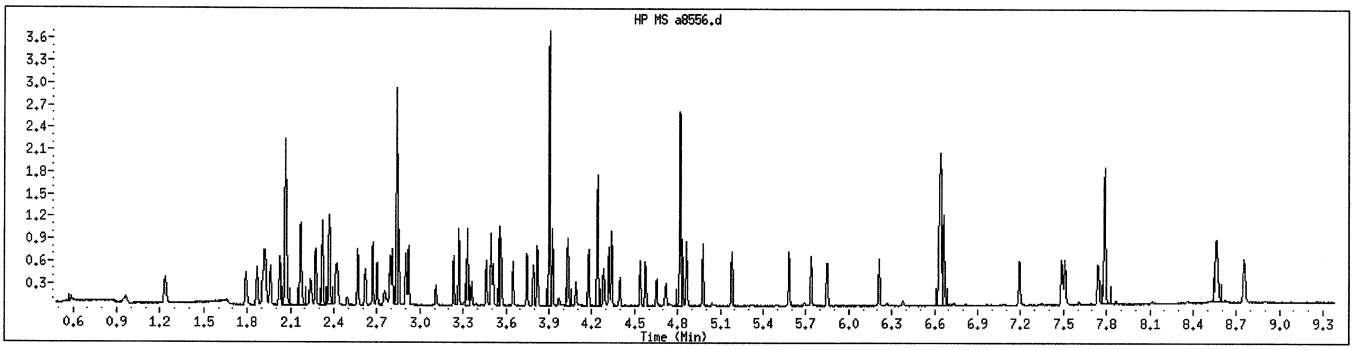
Column diameter: 0.25



Data file : /var/chem/MSSV1.i/2041227.s.b/a8556.d
Report Date: 12/27/2004 11:44

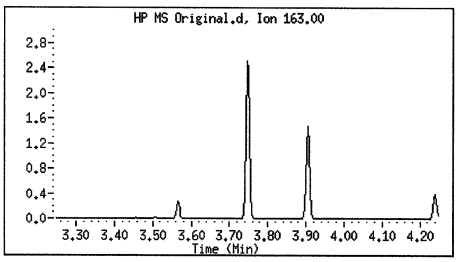
MANUAL INTEGRATION GRAPHIC REPORT

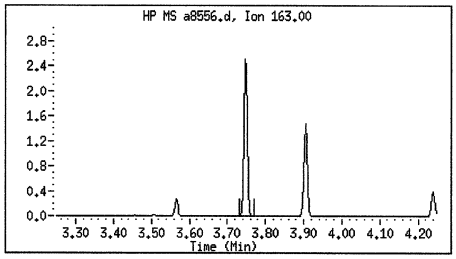
Lab ID	: 1201	SampleType	: CALIB_1
Injection Date	: 27-DEC-2004 09:15	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1201*4-16-4		
Misc Info	: STD010*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



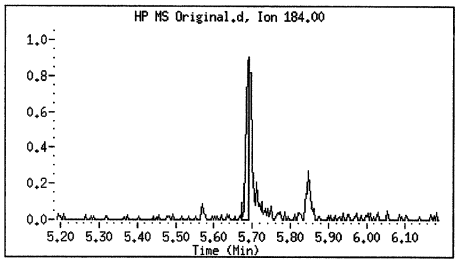
Original | Final

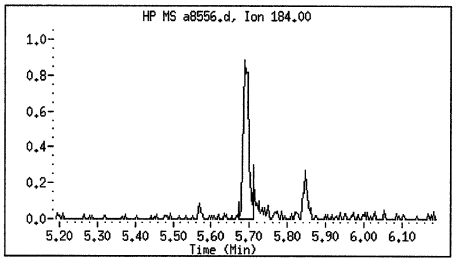
40 Dimethylphthalate CAS#: 131-11-3





68 Benzidine CAS#: 92-87-5





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2041227.s.b/a8557.d
Lab Smp Id: 1203 Client Smp ID: STD080
Inj Date : 27-DEC-2004 09:35
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1203*4-16-6
Misc Info : STD080*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 15:05 Cal File: a8369.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.579	0.579	(0.280)	101148	80.0000	80.4
1 n-Nitrosodimethylamine	42	0.570	0.570	(0.276)	30448	80.0000	84.7
$ 3 2-Fluorophenol	112	1.232	1.229	(0.597)	397588	80.0000	78.4
$ 4 Phenol-d5	99	1.913	1.915	(0.927)	624558	80.0000	82.2
5 Aniline	93	1.870	1.870	(0.906)	417315	80.0000	70.5
6 Phenol +	94	1.921	1.924	(0.931)	633805	80.0000	80.3
7 bis(-2-Chloroethyl)Ether	63	1.907	1.904	(0.924)	420357	80.0000	85.3
8 2-Chlorophenol	128	1.958	1.961	(0.949)	407356	80.0000	81.8
9 1,3-Dichlorobenzene	146	2.026	2.026	(0.982)	461503	80.0000	77.9
* 10 1,4-Dichlorobenzene-d4	152	2.063	2.063	(1.000)	135769	40.0000	
11 1,4-Dichlorobenzene +	146	2.074	2.074	(1.006)	465478	80.0000	79.4
12 Benzyl alcohol	108	2.177	2.174	(1.055)	309423	80.0000	81.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	13 1,2-Dichlorobenzene	146	2.168	2.168	(1.051)	442698	80.0000	79.2
	15 2-Methylphenol	108	2.276	2.276	(1.103)	424885	80.0000	81.4
	14 Bis(2-chloroisopropyl)ether	45	2.236	2.239	(1.084)	377569	80.0000	79.7
	17 3- & 4-Methylphenol	108	2.370	2.370	(1.149)	449181	80.0000	82.9
	16 N-Nitroso-di-n-propylamine++	70	2.327	2.324	(1.128)	442664	80.0000	84.2
	18 Hexachloroethane	117	2.367	2.367	(1.147)	218768	80.0000	81.3
$	19 Nitrobenzene-d5	82	2.415	2.415	(0.851)	616739	80.0000	80.0
	20 Nitrobenzene	77	2.426	2.426	(0.855)	652394	80.0000	80.0
	21 Isophorone	82	2.568	2.568	(0.905)	1091198	80.0000	84.9
	22 2-Nitrophenol +	139	2.617	2.619	(0.922)	216240	80.0000	81.6
	23 2,4-Dimethyphenol	107	2.671	2.670	(0.941)	547315	80.0000	83.3
	24 bis(-2-Chloroethoxy)methane	93	2.702	2.702	(0.952)	590359	80.0000	82.7
	25 Benzoic Acid	122	2.784	2.770	(0.981)	253567	80.0000	93.6
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.983)	319564	80.0000	83.2
	27 1,2,4-Trichlorobenzene	180	2.807	2.807	(0.989)	349603	80.0000	79.1
*	28 Naphthalene-d8	136	2.838	2.841	(1.000)	507716	40.0000	
	29 Naphthalene	128	2.852	2.852	(1.005)	1217809	80.0000	79.4
	30 4-Chloroaniline	127	2.900	2.903	(1.022)	405536	80.0000	84.1
	31 Hexachlorobutadiene +	225	2.920	2.920	(1.029)	246878	80.0000	81.5
	32 4-Chloro-3-Methylphenol +	107	3.235	3.235	(1.140)	434210	80.0000	87.6
	33 2-Methylnaphthalene	142	3.269	3.272	(1.152)	795502	80.0000	85.2
	145 1-Methylnapthalene	142	3.329	3.329	(1.173)	726731	80.0000	80.6
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	187047	80.0000	84.9
	35 2,4,6-Trichlorophenol +	196	3.462	3.462	(0.887)	229867	80.0000	79.6
	36 2,4,5-Trichlorphenol	196	3.508	3.508	(0.898)	247814	80.0000	82.4
$	37 2-Fluorobiphenyl	172	3.494	3.496	(0.895)	840309	80.0000	79.2
	38 2-Chloronaphthalene	162	3.567	3.567	(0.914)	715015	80.0000	77.5
	39 2-Nitroaniline	138	3.653	3.650	(0.935)	299263	80.0000	80.5
	40 Dimethylphthalate	163	3.752	3.749	(0.961)	825902	80.0000	83.6
	41 2,6-Dinitrotoluene	165	3.794	3.794	(0.972)	183899	80.0000	82.3
	42 Acenaphthylene	152	3.820	3.820	(0.978)	1034476	80.0000	76.0
	43 3-Nitroaniline	138	3.908	3.905	(1.001)	252777	80.0000	85.2
*	44 Acenaphthene-d10	164	3.905	3.905	(1.000)	279651	40.0000	
	45 Acenaphthene +	153	3.925	3.925	(1.005)	754259	80.0000	79.1
	46 2,4-Dinitrophenol ++	184	3.970	3.967	(1.017)	120430	80.0000	88.0
	49 4-Nitrophenol ++	109	4.084	4.087	(1.046)	196871	80.0000	91.7
	47 Dibenzofuran	168	4.033	4.033	(1.033)	1098087	80.0000	81.5
	48 2,4-Dinitrotoluene	165	4.041	4.041	(1.035)	254375	80.0000	86.2
	50 Diethylphthalate	149	4.183	4.180	(1.071)	915449	80.0000	87.4
	52 4-Chlorophenyl-phenylether	204	4.243	4.243	(1.086)	421900	80.0000	84.6
	51 Fluorene	166	4.243	4.243	(1.086)	976839	80.0000	84.8
	53 4-Nitroaniline	138	4.294	4.285	(1.100)	276052	80.0000	92.0
	54 4,6-Dinitro-o-cresol	198	4.297	4.294	(0.892)	181401	80.0000	88.5
	55 N-nitrosodiphenylamine (1)+	169	4.325	4.322	(0.898)	623427	80.0000	77.3
	56 Azobenzene	77	4.342	4.339	(0.901)	1597477	80.0000	77.5
$	57 2,4,6-Tribromophenol	332	4.399	4.399	(1.126)	140936	80.0000	89.2
	58 4-Bromophenyl-phenylether	248	4.541	4.541	(0.942)	204745	80.0000	74.3

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
59 Hexachlorobenzene	284	4.578	4.578	(0.950)	277676	80.0000	76.5
60 Pentachlorophenol +	266	4.720	4.720	(0.979)	177110	80.0000	83.0
* 61 Phenanthrene-d10	188	4.819	4.819	(1.000)	517368	40.0000	
62 Phenanthrene	178	4.833	4.833	(1.003)	1321308	80.0000	80.6
63 Anthracene	178	4.864	4.864	(1.009)	1269861	80.0000	80.1
64 Carbazole	167	4.981	4.978	(1.034)	1514796	80.0000	83.4
65 Di-n-butylphthalate	149	5.182	5.182	(1.075)	1618419	80.0000	85.9
67 Fluoranthene +	202	5.585	5.585	(1.159)	1544291	80.0000	84.6
68 Benzidine	184	5.693	5.690	(0.856)	71951	80.0000	64.2
69 Pyrene	202	5.742	5.739	(0.863)	1558577	80.0000	77.6
$ 70 Terphenyl-d14	244	5.849	5.849	(0.880)	989801	80.0000	80.9
71 Butylbenzylphthalate	149	6.215	6.215	(0.935)	813800	80.0000	81.0
73 3,3'-Dichlorobenzidine	252	6.638	6.635	(0.998)	729166	80.0000	84.2
72 Benzo(a)anthracene	228	6.641	6.638	(0.999)	1721415	80.0000	82.1
* 74 Chrysene-d12	240	6.650	6.647	(1.000)	589517	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	6.667	6.667	(1.003)	1137131	80.0000	85.2
75 Chrysene	228	6.672	6.670	(1.003)	1531470	80.0000	79.2
77 Di-n-octylphthalate +	149	7.198	7.195	(1.082)	2066264	80.0000	84.5
78 Benzo(b)fluoranthene	252	7.501	7.495	(0.963)	2033686	80.0000	84.6
79 Benzo(k)fluoranthene	252	7.524	7.518	(0.966)	1880168	80.0000	80.1
80 Benzo(a)pyrene +	252	7.751	7.748	(0.995)	1815735	80.0000	86.4
* 81 Perylene-d12	264	7.791	7.791	(1.000)	615767	40.0000	
82 Indeno(1,2,3-cd)pyrene	276	8.583	8.568	(1.102)	2985700	80.0000	82.2(M)
83 Dibenzo(a,h)anthracene	278	8.588	8.577	(1.102)	2669271	80.0000	91.7
84 Benzo(g,h,i)perylene	276	8.781	8.770	(1.127)	2327380	80.0000	80.1
M 66 Total Methylphenol	108				874066	80.0000	82.2
91 Acetophenone	105	2.321	2.321	(1.125)	623696	80.0000	82.7
155 Benzaldehyde	77	1.791	1.791	(0.868)	134246	80.0000	58.4
156 Caprolactam	113	3.136	3.125	(1.105)	136915	80.0000	96.7
157 Biphenyl	154	3.556	3.556	(1.253)	966803	80.0000	85.7
158 Atrazine	200	4.657	4.657	(0.966)	42858	80.0000	47.7

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2041227.s.b/a8557.d

Date : 27-DEC-2004 09:35

Client ID: STD080

Sample Info: 1203*4-16-6

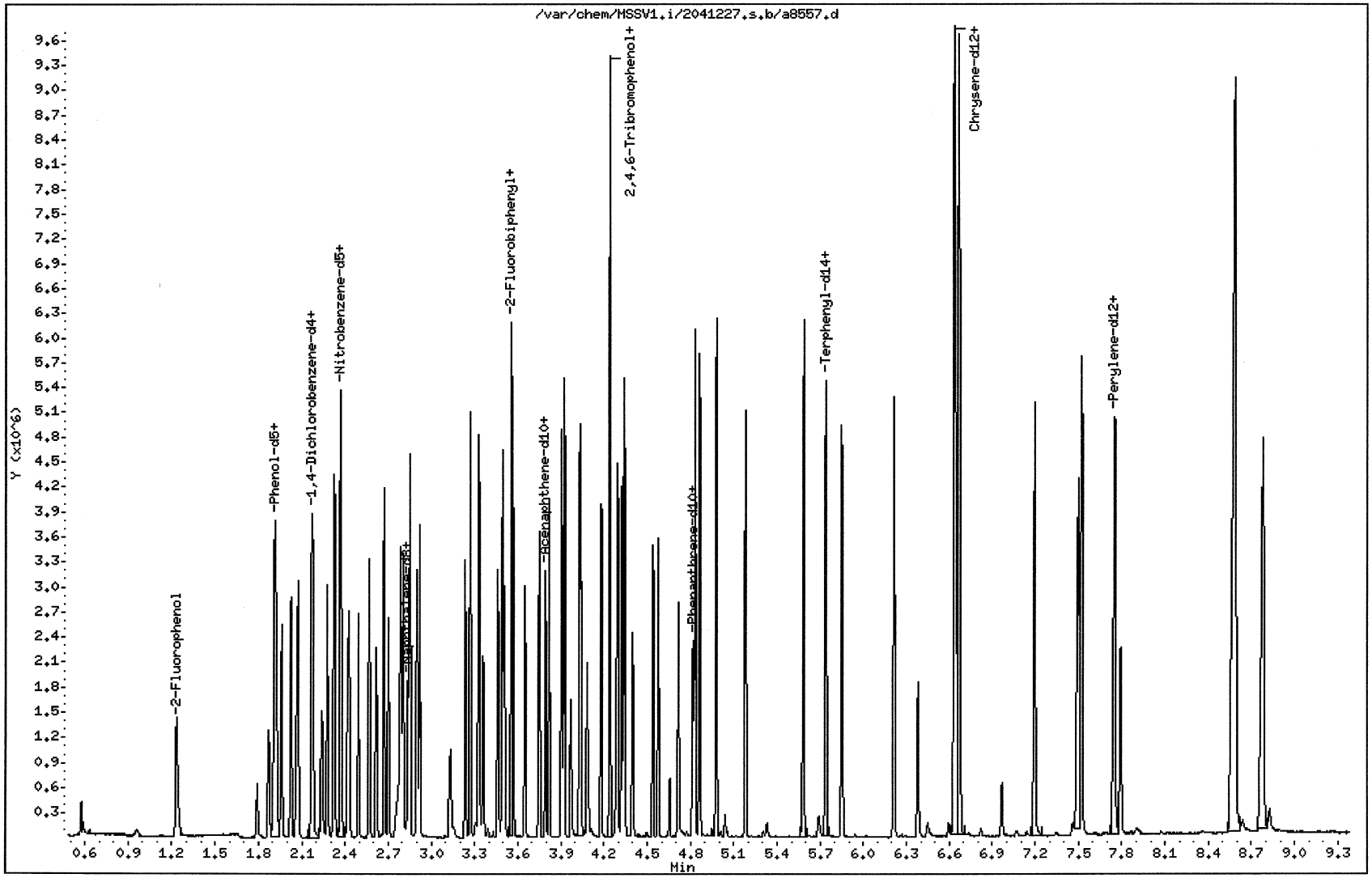
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25

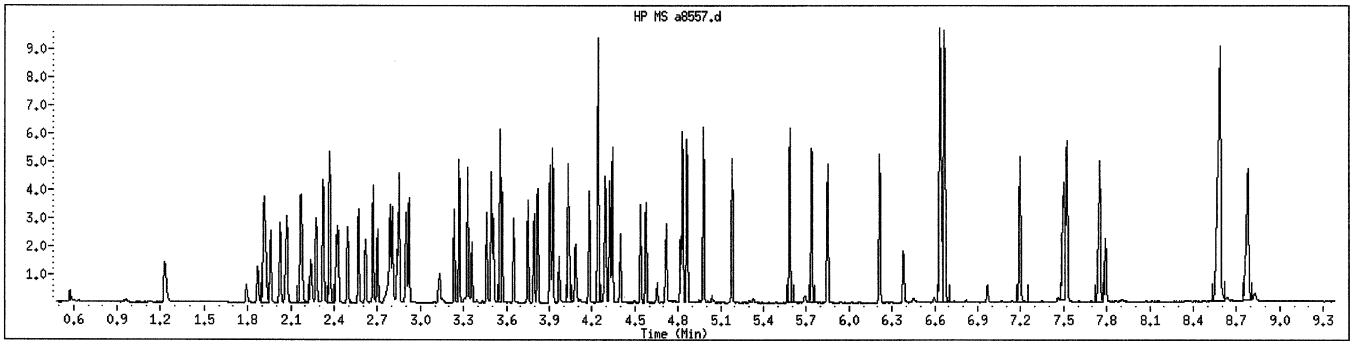


000340

Data file : /var/chem/MSSV1.i/2041227.s.b/a8557.d Page: 1
Report Date: 12/27/2004 11:44

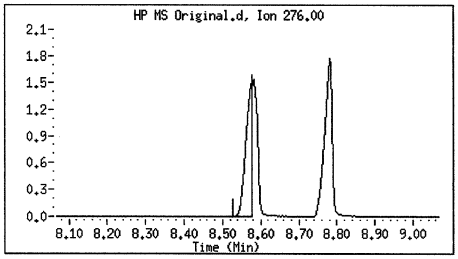
MANUAL INTEGRATION GRAPHIC REPORT

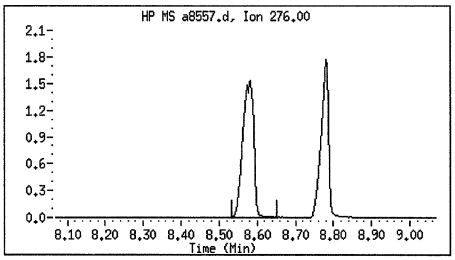
Lab ID : 1203 SampleType : CALIB_3
Injection Date: 27-DEC-2004 09:35 Instrument : MSSV1.i
Operator : jar3
Sample Info : 1203*4-16-6
Misc Info : STD080*MSSV~2458~
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE Compound Sublist: 8270C



Original Final

82 Indeno(1,2,3-cd)pyrene CAS#: 193-39-5





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BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2041227.s.b/a8558.d
Lab Smp Id: 1205 Client Smp ID: STD160
Inj Date : 27-DEC-2004 10:23
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1205*4-16-8
Misc Info : STD160*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 15:43 Cal File: a8371.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.576	0.579	(0.279)	206398	160.000	163
1 n-Nitrosodimethylamine	42	0.570	0.570	(0.276)	59055	160.000	157
$ 3 2-Fluorophenol	112	1.220	1.229	(0.591)	743706	160.000	148
$ 4 Phenol-d5	99	1.913	1.915	(0.927)	1154906	160.000	151
5 Aniline	93	1.870	1.870	(0.906)	531347	160.000	89.1
6 Phenol +	94	1.921	1.924	(0.931)	1224661	160.000	155
7 bis(-2-Chloroethyl)Ether	63	1.904	1.904	(0.923)	772316	160.000	155
8 2-Chlorophenol	128	1.958	1.961	(0.949)	766413	160.000	150
9 1,3-Dichlorobenzene	146	2.023	2.026	(0.981)	926087	160.000	152
* 10 1,4-Dichlorobenzene-d4	152	2.063	2.063	(1.000)	140308	40.0000	
11 1,4-Dichlorobenzene +	146	2.074	2.074	(1.006)	952516	160.000	157
12 Benzyl alcohol	108	2.179	2.174	(1.056)	604720	160.000	157

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	13 1,2-Dichlorobenzene	146	2.168	2.168	(1.051)	885766	160.000	154
	15 2-Methylphenol	108	2.279	2.276	(1.105)	793463	160.000	151
	14 Bis(2-chloroisopropyl)ether	45	2.239	2.239	(1.085)	726387	160.000	152
	17 3- & 4-Methylphenol	108	2.372	2.370	(1.150)	856056	160.000	155
	16 N-Nitroso-di-n-propylamine++	70	2.336	2.324	(1.132)	822042	160.000	153
	18 Hexachloroethane	117	2.367	2.367	(1.147)	433842	160.000	152
$	19 Nitrobenzene-d5	82	2.421	2.415	(0.852)	1176973	160.000	153
	20 Nitrobenzene	77	2.432	2.426	(0.856)	1207859	160.000	149
	21 Isophorone	82	2.574	2.568	(0.906)	1955672	160.000	152
	22 2-Nitrophenol +	139	2.619	2.619	(0.922)	412743	160.000	156
	23 2,4-Dimethyphenol	107	2.676	2.670	(0.942)	1020707	160.000	156
	24 bis(-2-Chloroethoxy)methane	93	2.707	2.702	(0.953)	1123072	160.000	156
	25 Benzoic Acid	122	2.804	2.770	(0.987)	455219	160.000	165
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.982)	632978	160.000	163
	27 1,2,4-Trichlorobenzene	180	2.807	2.807	(0.988)	701152	160.000	156
*	28 Naphthalene-d8	136	2.841	2.841	(1.000)	509003	40.0000	
	29 Naphthalene	128	2.855	2.852	(1.005)	2417509	160.000	157
	30 4-Chloroaniline	127	2.906	2.903	(1.023)	616306	160.000	129
	31 Hexachlorobutadiene +	225	2.923	2.920	(1.029)	491324	160.000	158
	32 4-Chloro-3-Methylphenol +	107	3.238	3.235	(1.140)	829839	160.000	165
	33 2-Methylnaphthalene	142	3.272	3.272	(1.152)	1547364	160.000	162
	145 1-Methylnapthalene	142	3.335	3.329	(1.174)	1428687	160.000	157
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	369639	160.000	166
	35 2,4,6-Trichlorophenol +	196	3.465	3.462	(0.887)	453734	160.000	158
	36 2,4,5-Trichlorphenol	196	3.511	3.508	(0.898)	469414	160.000	158
$	37 2-Fluorobiphenyl	172	3.499	3.496	(0.895)	1633372	160.000	153
	38 2-Chloronaphthalene	162	3.573	3.567	(0.914)	1392199	160.000	152
	39 2-Nitroaniline	138	3.658	3.650	(0.936)	562438	160.000	156
	40 Dimethylphthalate	163	3.757	3.749	(0.962)	1559014	160.000	158
	41 2,6-Dinitrotoluene	165	3.800	3.794	(0.972)	350795	160.000	158
	42 Acenaphthylene	152	3.823	3.820	(0.978)	1993096	160.000	149
	43 3-Nitroaniline	138	3.914	3.905	(1.001)	432848	160.000	151
*	44 Acenaphthene-d10	164	3.908	3.905	(1.000)	275155	40.0000	
	45 Acenaphthene +	153	3.931	3.925	(1.006)	1481738	160.000	157
	46 2,4-Dinitrophenol ++	184	3.976	3.967	(1.017)	205302	160.000	157
	49 4-Nitrophenol ++	109	4.087	4.087	(1.046)	317661	160.000	152
	47 Dibenzofuran	168	4.036	4.033	(1.033)	2136840	160.000	162
	48 2,4-Dinitrotoluene	165	4.047	4.041	(1.036)	462479	160.000	161
	50 Diethylphthalate	149	4.189	4.180	(1.072)	1689787	160.000	160
	52 4-Chlorophenyl-phenylether	204	4.246	4.243	(1.086)	843331	160.000	165
	51 Fluorene	166	4.246	4.243	(1.086)	1864909	160.000	162
	53 4-Nitroaniline	138	4.302	4.285	(1.101)	452330	160.000	158
	54 4,6-Dinitro-o-cresol	198	4.305	4.294	(0.893)	299379	160.000	165
	55 N-nitrosodiphenylamine (1)+	169	4.331	4.322	(0.898)	1153426	160.000	159
	56 Azobenzene	77	4.348	4.339	(0.902)	2791417	160.000	150
$	57 2,4,6-Tribromophenol	332	4.405	4.399	(1.127)	264852	160.000	170
	58 4-Bromophenyl-phenylether	248	4.547	4.541	(0.943)	415550	160.000	165

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	59 Hexachlorobenzene	284	4.583	4.578	(0.951)	549707	160.000	166
	60 Pentachlorophenol +	266	4.722	4.720	(0.979)	302545	160.000	156
*	61 Phenanthrene-d10	188	4.822	4.819	(1.000)	459048	40.0000	
	62 Phenanthrene	178	4.839	4.833	(1.004)	2340220	160.000	160
	63 Anthracene	178	4.870	4.864	(1.010)	2216643	160.000	157
	64 Carbazole	167	4.986	4.978	(1.034)	2481303	160.000	154
	65 Di-n-butylphthalate	149	5.188	5.182	(1.076)	2708904	160.000	156
	67 Fluoranthene +	202	5.594	5.585	(1.160)	2568084	160.000	157
	68 Benzidine	184	5.699	5.690	(0.856)	107725	160.000	108
	69 Pyrene	202	5.747	5.739	(0.863)	2560810	160.000	154
$	70 Terphenyl-d14	244	5.858	5.849	(0.880)	1656893	160.000	159
	71 Butylbenzylphthalate	149	6.224	6.215	(0.935)	1339252	160.000	152
	73 3,3'-Dichlorobenzidine	252	6.647	6.635	(0.998)	1138396	160.000	148
	72 Benzo(a)anthracene	228	6.650	6.638	(0.999)	2887559	160.000	159
*	74 Chrysene-d12	240	6.658	6.647	(1.000)	507337	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.675	6.667	(1.003)	1841543	160.000	151
	75 Chrysene	228	6.681	6.670	(1.003)	2573742	160.000	151
	77 Di-n-octylphthalate +	149	7.206	7.195	(1.082)	3428124	160.000	151
	78 Benzo(b)fluoranthene	252	7.515	7.495	(0.964)	3525054	160.000	173
	79 Benzo(k)fluoranthene	252	7.535	7.518	(0.966)	3318408	160.000	173
	80 Benzo(a)pyrene +	252	7.765	7.748	(0.996)	3047966	160.000	170
*	81 Perylene-d12	264	7.799	7.791	(1.000)	504729	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.602	8.568	(1.103)	5260306	160.000	174
	83 Dibenzo(a,h)anthracene	278	8.608	8.577	(1.104)	4676664	160.000	185
	84 Benzo(g,h,i)perylene	276	8.804	8.770	(1.129)	4040959	160.000	171
M	66 Total Methylphenol	108				1649519	160.000	153
	91 Acetophenone	105	2.324	2.321	(1.127)	1175417	160.000	154
	155 Benzaldehyde	77	1.788	1.791	(0.867)	128343	160.000	53.8
	156 Caprolactam	113	3.153	3.125	(1.110)	223489	160.000	158
	157 Biphenyl	154	3.562	3.556	(1.254)	1878050	160.000	162
	158 Atrazine	200	4.663	4.657	(0.967)	76961	160.000	97.3

Data File: /var/chem/MSSV1.i/2041227.s.b/a8558.d

Date : 27-DEC-2004 10:23

Client ID: STD160

Sample Info: 1205x4-16-8

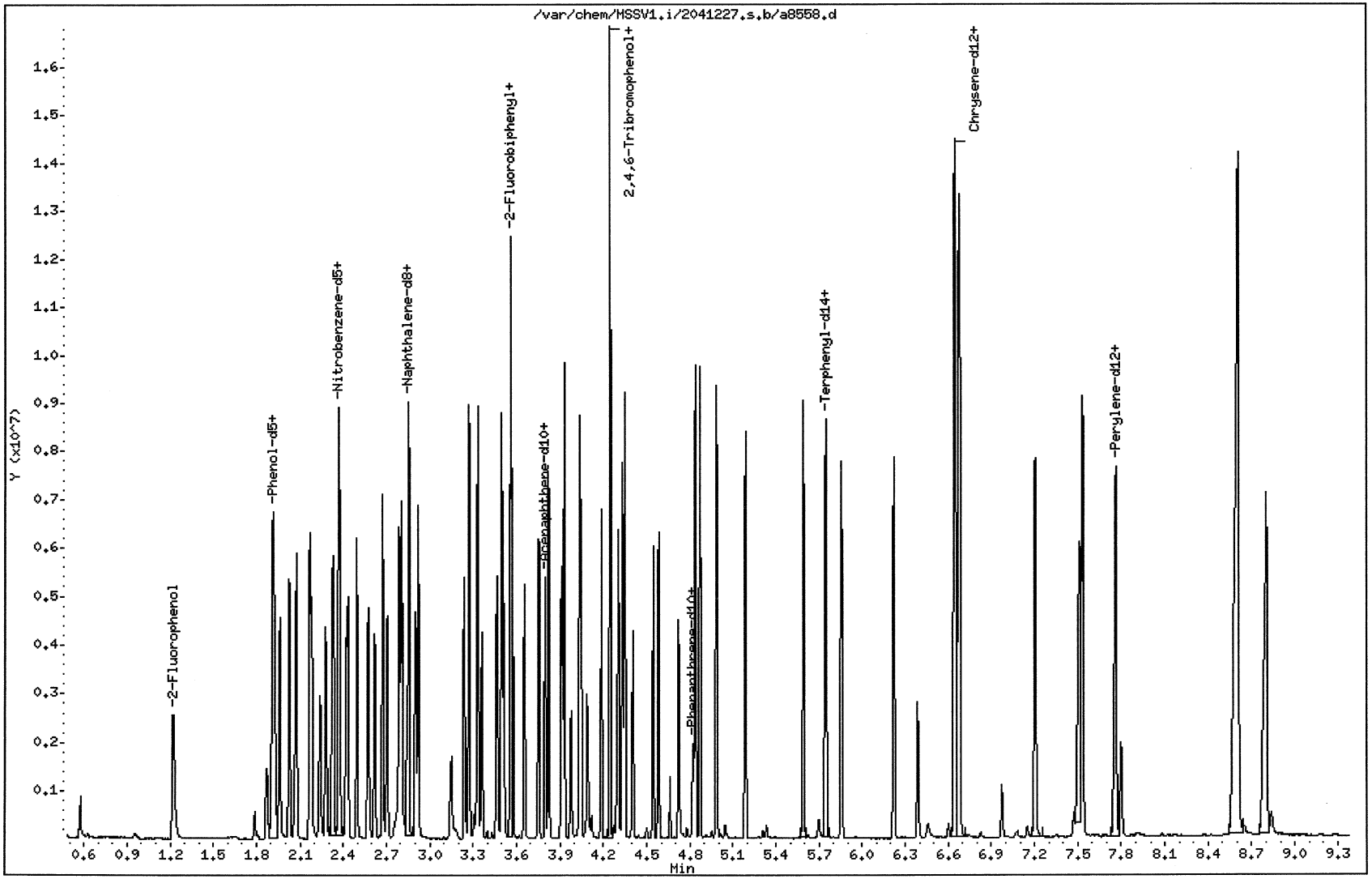
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25

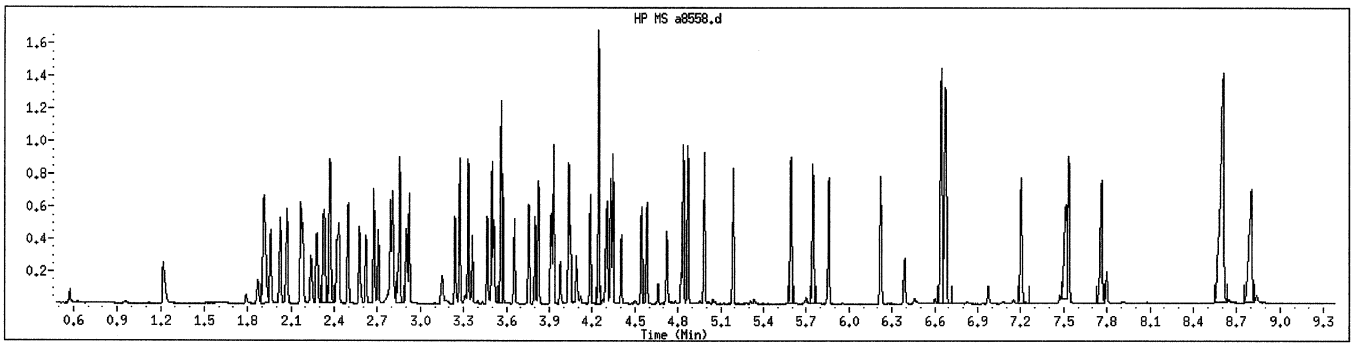


000345

Data file : /var/chem/MSSV1.i/2041227.s.b/a8558.d
Report Date: 12/27/2004 11:44

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1205	SampleType	: CALIB_5
Injection Date	: 27-DEC-2004 10:23	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1205*4-16-8		
Misc Info	: STD160*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.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/MSSV1.i/2041227.s.b/a8559.d
Lab Smp Id: 1204 Client Smp ID: STD120
Inj Date : 27-DEC-2004 10:40
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1204*4-16-7
Misc Info : STD120*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 15:24 Cal File: a8370.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.573	0.579	(0.278)	140403	120.000	109
1 n-Nitrosodimethylamine	42	0.568	0.570	(0.275)	45442	120.000	119
$ 3 2-Fluorophenol	112	1.217	1.229	(0.590)	580920	120.000	114
$ 4 Phenol-d5	99	1.913	1.915	(0.927)	888926	120.000	114
5 Aniline	93	1.867	1.870	(0.905)	481547	120.000	79.5
6 Phenol +	94	1.921	1.924	(0.931)	904893	120.000	113
7 bis(-2-Chloroethyl)Ether	63	1.904	1.904	(0.923)	614319	120.000	122
8 2-Chlorophenol	128	1.958	1.961	(0.949)	596057	120.000	115
9 1,3-Dichlorobenzene	146	2.024	2.026	(0.981)	733370	120.000	119
* 10 1,4-Dichlorobenzene-d4	152	2.063	2.063	(1.000)	142440	40.0000	
11 1,4-Dichlorobenzene +	146	2.072	2.074	(1.004)	728098	120.000	119
12 Benzyl alcohol	108	2.180	2.174	(1.056)	453696	120.000	116

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	13 1,2-Dichlorobenzene	146	2.168	2.168	(1.051)	692101	120.000	119
	15 2-Methylphenol	108	2.279	2.276	(1.105)	603743	120.000	113
	14 Bis(2-chloroisopropyl)ether	45	2.239	2.239	(1.085)	577488	120.000	119
	17 3- & 4-Methylphenol	108	2.373	2.370	(1.150)	642288	120.000	115
	16 N-Nitroso-di-n-propylamine++	70	2.333	2.324	(1.131)	625855	120.000	115
	18 Hexachloroethane	117	2.367	2.367	(1.147)	344291	120.000	119
$	19 Nitrobenzene-d5	82	2.418	2.415	(0.851)	900853	120.000	115
	20 Nitrobenzene	77	2.429	2.426	(0.855)	947615	120.000	115
	21 Isophorone	82	2.571	2.568	(0.905)	1497876	120.000	115
	22 2-Nitrophenol +	139	2.620	2.619	(0.922)	313554	120.000	117
	23 2,4-Dimethyphenol	107	2.673	2.670	(0.941)	769979	120.000	116
	24 bis(-2-Chloroethoxy)methane	93	2.705	2.702	(0.952)	847544	120.000	116
	25 Benzoic Acid	122	2.793	2.770	(0.983)	321766	120.000	115
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.982)	450425	120.000	114
	27 1,2,4-Trichlorobenzene	180	2.807	2.807	(0.988)	538448	120.000	118
*	28 Naphthalene-d8	136	2.841	2.841	(1.000)	515744	40.0000	
	29 Naphthalene	128	2.855	2.852	(1.005)	1803569	120.000	116
	30 4-Chloroaniline	127	2.906	2.903	(1.023)	508087	120.000	105
	31 Hexachlorobutadiene +	225	2.923	2.920	(1.029)	383817	120.000	122
	32 4-Chloro-3-Methylphenol +	107	3.238	3.235	(1.140)	573508	120.000	112
	33 2-Methylnaphthalene	142	3.272	3.272	(1.152)	1137814	120.000	118
	145 1-Methylnapthalene	142	3.332	3.329	(1.173)	1060941	120.000	115
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	289524	120.000	142
	35 2,4,6-Trichlorophenol +	196	3.465	3.462	(0.887)	310790	120.000	118
	36 2,4,5-Trichlorphenol	196	3.511	3.508	(0.898)	311198	120.000	114
$	37 2-Fluorobiphenyl	172	3.499	3.496	(0.895)	1177658	120.000	121
	38 2-Chloronaphthalene	162	3.573	3.567	(0.914)	1008253	120.000	120
	39 2-Nitroaniline	138	3.656	3.650	(0.935)	388519	120.000	118
	40 Dimethylphthalate	163	3.755	3.749	(0.961)	1062624	120.000	118
	41 2,6-Dinitrotoluene	165	3.797	3.794	(0.972)	236535	120.000	117
	42 Acenaphthylene	152	3.823	3.820	(0.978)	1389552	120.000	113
	43 3-Nitroaniline	138	3.911	3.905	(1.001)	299702	120.000	114
*	44 Acenaphthene-d10	164	3.908	3.905	(1.000)	251824	40.0000	
	45 Acenaphthene +	153	3.928	3.925	(1.005)	1036933	120.000	120
	46 2,4-Dinitrophenol ++	184	3.973	3.967	(1.017)	131230	120.000	110
	49 4-Nitrophenol ++	109	4.087	4.087	(1.046)	212868	120.000	111
	47 Dibenzofuran	168	4.036	4.033	(1.033)	1448916	120.000	120
	48 2,4-Dinitrotoluene	165	4.047	4.041	(1.036)	308693	120.000	117
	50 Diethylphthalate	149	4.186	4.180	(1.071)	1146383	120.000	118
	52 4-Chlorophenyl-phenylether	204	4.246	4.243	(1.086)	556734	120.000	119
	51 Fluorene	166	4.246	4.243	(1.086)	1223981	120.000	116
	53 4-Nitroaniline	138	4.297	4.285	(1.099)	306698	120.000	117
	54 4,6-Dinitro-o-cresol	198	4.303	4.294	(0.892)	194777	120.000	123
	55 N-nitrosodiphenylamine (1)+	169	4.328	4.322	(0.898)	761601	120.000	120
	56 Azobenzene	77	4.345	4.339	(0.901)	1937957	120.000	119
$	57 2,4,6-Tribromophenol	332	4.405	4.399	(1.127)	163658	120.000	115
	58 4-Bromophenyl-phenylether	248	4.547	4.541	(0.943)	268175	120.000	122

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	59 Hexachlorobenzene	284	4.581	4.578	(0.950)	349142	120.000	120
	60 Pentachlorophenol +	266	4.723	4.720	(0.979)	204153	120.000	121
*	61 Phenanthrene-d10	188	4.822	4.819	(1.000)	401174	40.0000	
	62 Phenanthrene	178	4.839	4.833	(1.004)	1514233	120.000	119
	63 Anthracene	178	4.870	4.864	(1.010)	1479331	120.000	120
	64 Carbazole	167	4.984	4.978	(1.034)	1727258	120.000	122
	65 Di-n-butylphthalate	149	5.185	5.182	(1.075)	1828889	120.000	121
	67 Fluoranthene +	202	5.591	5.585	(1.159)	1788710	120.000	125
	68 Benzidine	184	5.696	5.690	(0.856)	93577	120.000	97.5
	69 Pyrene	202	5.744	5.739	(0.863)	1835772	120.000	115
$	70 Terphenyl-d14	244	5.855	5.849	(0.880)	1183852	120.000	118
	71 Butylbenzylphthalate	149	6.218	6.215	(0.934)	1004803	120.000	118
	73 3,3'-Dichlorobenzidine	252	6.644	6.635	(0.998)	847612	120.000	115
	72 Benzo(a)anthracene	228	6.644	6.638	(0.998)	2128530	120.000	122
*	74 Chrysene-d12	240	6.656	6.647	(1.000)	488617	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.673	6.667	(1.003)	1405153	120.000	120
	75 Chrysene	228	6.678	6.670	(1.003)	1900599	120.000	115
	77 Di-n-octylphthalate +	149	7.203	7.195	(1.082)	2638559	120.000	120
	78 Benzo(b)fluoranthene	252	7.507	7.495	(0.963)	2511926	120.000	121
	79 Benzo(k)fluoranthene	252	7.533	7.518	(0.966)	2511874	120.000	129
	80 Benzo(a)pyrene +	252	7.760	7.748	(0.995)	2292819	120.000	126
*	81 Perylene-d12	264	7.797	7.791	(1.000)	513493	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.597	8.568	(1.103)	3923490	120.000	127
	83 Dibenzo(a,h)anthracene	278	8.600	8.577	(1.103)	3487394	120.000	136
	84 Benzo(g,h,i)perylene	276	8.796	8.770	(1.128)	3025244	120.000	126
M	66 Total Methylphenol	108				1246031	120.000	114
	91 Acetophenone	105	2.324	2.321	(1.127)	911164	120.000	117
	155 Benzaldehyde	77	1.788	1.791	(0.867)	161420	120.000	66.7
	156 Caprolactam	113	3.142	3.125	(1.106)	152098	120.000	106
	157 Biphenyl	154	3.559	3.556	(1.253)	1376661	120.000	117
	158 Atrazine	200	4.660	4.657	(0.966)	54850	120.000	79.3

Data File: /var/chem/MSSV1.i/2041227.s.b/a8559.d

Date : 27-DEC-2004 10:40

Client ID: STD120

Sample Info: 1204*4-16-7

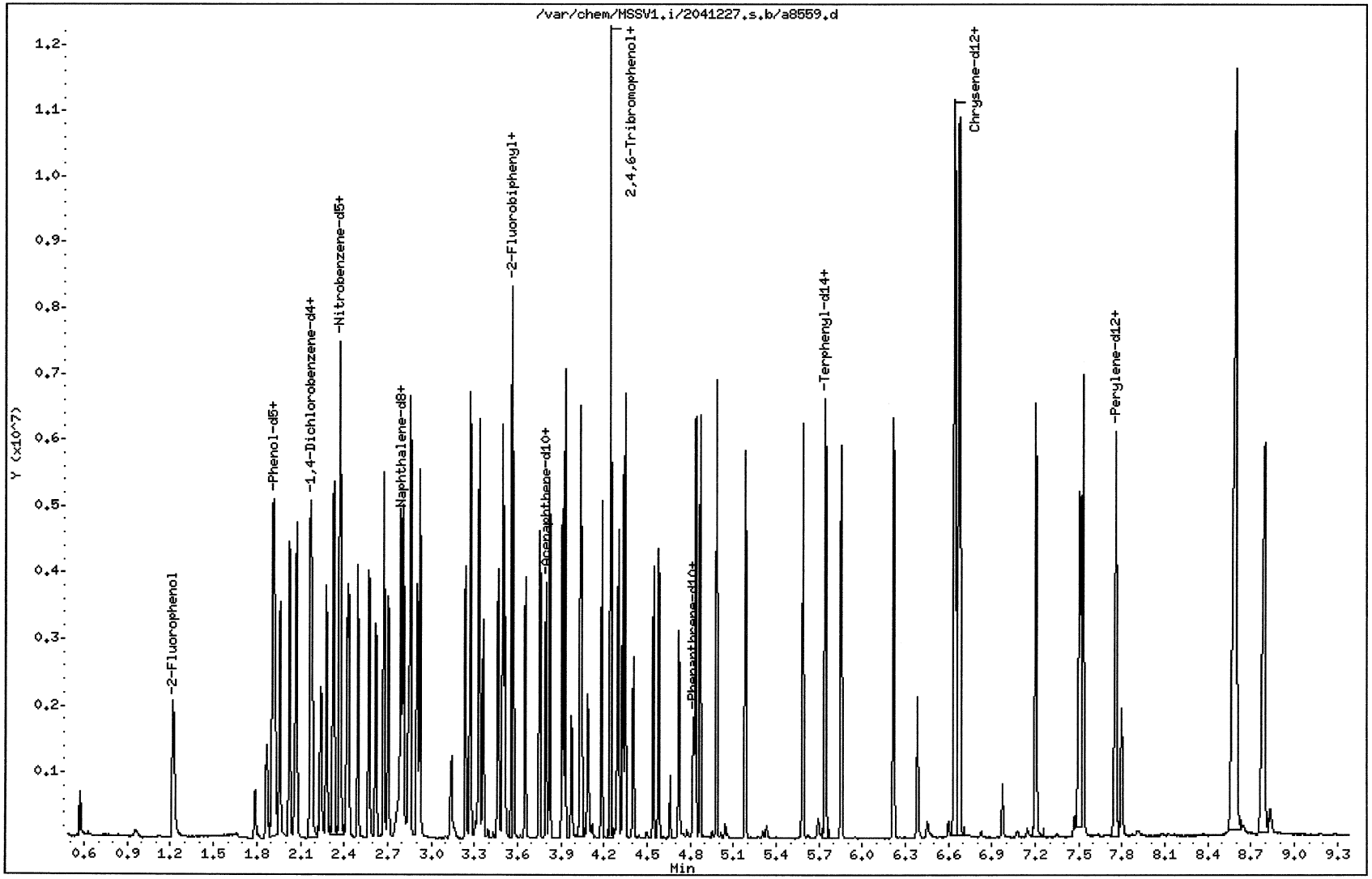
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25



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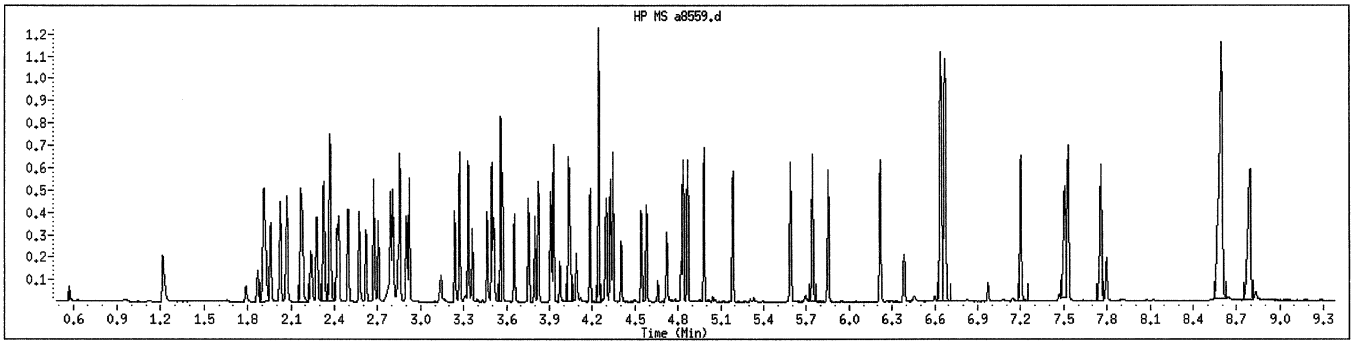
Data file : /var/chem/MSSV1.i/2041227.s.b/a8559.d
Report Date: 12/27/2004 11:44

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 27-DEC-2004 10:40	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1204*4-16-7		
Misc Info	: STD120*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.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/MSSV1.i/2041227.s.b/a8560.d
Lab Smp Id: 1206 Client Smp ID: STD200
Inj Date : 27-DEC-2004 11:00
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1206*4-16-9
Misc Info : STD200*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 17-DEC-2004 12:36 Cal File: a8320.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.582	0.579	(0.281)	213762	200.000	194
1 n-Nitrosodimethylamine	42	0.576	0.570	(0.279)	62137	200.000	191
$ 3 2-Fluorophenol	112	1.231	1.229	(0.596)	805243	200.000	185
$ 4 Phenol-d5	99	1.915	1.915	(0.927)	1251570	200.000	189
5 Aniline	93	1.876	1.870	(0.908)	455543	200.000	89.0
6 Phenol +	94	1.924	1.924	(0.931)	1321024	200.000	193
7 bis(-2-Chloroethyl)Ether	63	1.910	1.904	(0.924)	823076	200.000	190
8 2-Chlorophenol	128	1.961	1.961	(0.949)	824438	200.000	188
9 1,3-Dichlorobenzene	146	2.029	2.026	(0.982)	980753	200.000	187
* 10 1,4-Dichlorobenzene-d4	152	2.066	2.063	(1.000)	119830	40.0000	
11 1,4-Dichlorobenzene +	146	2.074	2.074	(1.004)	974231	200.000	186
12 Benzyl alcohol	108	2.182	2.174	(1.056)	624289	200.000	187

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	13 1,2-Dichlorobenzene	146	2.168	2.168	(1.049)	941828	200.000	189
	15 2-Methylphenol	108	2.279	2.276	(1.103)	860776	200.000	189
	14 Bis(2-chloroisopropyl)ether	45	2.239	2.239	(1.084)	770723	200.000	186
	17 3- & 4-Methylphenol	108	2.372	2.370	(1.148)	901314	200.000	189
	16 N-Nitroso-di-n-propylamine++	70	2.336	2.324	(1.131)	863695	200.000	185
	18 Hexachloroethane	117	2.370	2.367	(1.147)	456282	200.000	188
$	19 Nitrobenzene-d5	82	2.421	2.415	(0.852)	1234853	200.000	187
	20 Nitrobenzene	77	2.432	2.426	(0.856)	1287716	200.000	186
	21 Isophorone	82	2.574	2.568	(0.906)	1986433	200.000	180
	22 2-Nitrophenol +	139	2.619	2.619	(0.922)	439321	200.000	193
	23 2,4-Dimethyphenol	107	2.676	2.670	(0.942)	1065674	200.000	190
	24 bis(-2-Chloroethoxy)methane	93	2.707	2.702	(0.953)	1181549	200.000	191
	25 Benzoic Acid	122	2.804	2.770	(0.987)	479837	200.000	202(A)
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.982)	646571	200.000	193
	27 1,2,4-Trichlorobenzene	180	2.807	2.807	(0.988)	747689	200.000	194
*	28 Naphthalene-d8	136	2.841	2.841	(1.000)	430551	40.0000	
	29 Naphthalene	128	2.855	2.852	(1.005)	2504012	200.000	190
	30 4-Chloroaniline	127	2.906	2.903	(1.023)	564129	200.000	138
	31 Hexachlorobutadiene +	225	2.920	2.920	(1.028)	510250	200.000	191
	32 4-Chloro-3-Methylphenol +	107	3.238	3.235	(1.140)	830699	200.000	194
	33 2-Methylnaphthalene	142	3.272	3.272	(1.152)	1585665	200.000	195
	145 1-Methylnapthalene	142	3.332	3.329	(1.173)	1488261	200.000	190
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	328276	200.000	184
	35 2,4,6-Trichlorophenol +	196	3.465	3.462	(0.887)	463819	200.000	200(A)
	36 2,4,5-Trichlorphenol	196	3.511	3.508	(0.899)	489981	200.000	204(A)
$	37 2-Fluorobiphenyl	172	3.496	3.496	(0.895)	1652819	200.000	193
	38 2-Chloronaphthalene	162	3.570	3.567	(0.914)	1427925	200.000	194
	39 2-Nitroaniline	138	3.655	3.650	(0.936)	588463	200.000	203(A)
	40 Dimethylphthalate	163	3.755	3.749	(0.961)	1547942	200.000	195
	41 2,6-Dinitrotoluene	165	3.797	3.794	(0.972)	367375	200.000	206(A)
	42 Acenaphthylene	152	3.823	3.820	(0.979)	2079322	200.000	193
	43 3-Nitroaniline	138	3.914	3.905	(1.002)	451322	200.000	196
*	44 Acenaphthene-d10	164	3.905	3.905	(1.000)	218656	40.0000	
	45 Acenaphthene +	153	3.928	3.925	(1.006)	1495023	200.000	197
	46 2,4-Dinitrophenol ++	184	3.973	3.967	(1.017)	243422	200.000	230(A)
	49 4-Nitrophenol ++	109	4.084	4.087	(1.046)	373178	200.000	221(A)
	47 Dibenzofuran	168	4.036	4.033	(1.033)	2116923	200.000	196
	48 2,4-Dinitrotoluene	165	4.047	4.041	(1.036)	477216	200.000	206(A)
	50 Diethylphthalate	149	4.186	4.180	(1.072)	1672176	200.000	196
	52 4-Chlorophenyl-phenylether	204	4.243	4.243	(1.086)	873042	200.000	212(A)
	51 Fluorene	166	4.246	4.243	(1.087)	1881518	200.000	203(A)
	53 4-Nitroaniline	138	4.302	4.285	(1.102)	523545	200.000	226(A)
	54 4,6-Dinitro-o-cresol	198	4.305	4.294	(0.893)	347416	200.000	219(A)
	55 N-nitrosodiphenylamine (1)+	169	4.328	4.322	(0.898)	1189052	200.000	187
	56 Azobenzene	77	4.345	4.339	(0.901)	2832059	200.000	174
$	57 2,4,6-Tribromophenol	332	4.402	4.399	(1.127)	279511	200.000	221(A)
	58 4-Bromophenyl-phenylether	248	4.544	4.541	(0.942)	423644	200.000	191

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	59 Hexachlorobenzene	284	4.581	4.578	(0.950)	567806	200.000	196
	60 Pentachlorophenol +	266	4.723	4.720	(0.979)	361711	200.000	213(A)
*	61 Phenanthrene-d10	188	4.822	4.819	(1.000)	396874	40.0000	
	62 Phenanthrene	178	4.839	4.833	(1.004)	2484160	200.000	194
	63 Anthracene	178	4.870	4.864	(1.010)	2407275	200.000	195
	64 Carbazole	167	4.984	4.978	(1.034)	2901073	200.000	205(A)
	65 Di-n-butylphthalate	149	5.185	5.182	(1.075)	3036009	200.000	200(A)
	67 Fluoranthene +	202	5.591	5.585	(1.160)	3060089	200.000	214(A)
	68 Benzidine	184	5.693	5.690	(0.855)	172689	200.000	165
	69 Pyrene	202	5.744	5.739	(0.863)	3148404	200.000	178
$	70 Terphenyl-d14	244	5.855	5.849	(0.880)	2012224	200.000	182
	71 Butylbenzylphthalate	149	6.218	6.215	(0.934)	1653825	200.000	177
	73 3,3'-Dichlorobenzidine	252	6.647	6.635	(0.999)	1460195	200.000	179
	72 Benzo(a)anthracene	228	6.647	6.638	(0.999)	3682036	200.000	191
*	74 Chrysene-d12	240	6.655	6.647	(1.000)	531598	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.672	6.667	(1.003)	2260182	200.000	175
	75 Chrysene	228	6.681	6.670	(1.004)	3286568	200.000	185
	77 Di-n-octylphthalate +	149	7.203	7.195	(1.082)	4280074	200.000	178
	78 Benzo(b)fluoranthene	252	7.518	7.495	(0.964)	5138901	200.000	224(A)
	79 Benzo(k)fluoranthene	252	7.538	7.518	(0.967)	4142550	200.000	192(H)
	80 Benzo(a)pyrene +	252	7.765	7.748	(0.996)	4306462	200.000	221(A)
*	81 Perylene-d12	264	7.799	7.791	(1.000)	557795	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.614	8.568	(1.104)	7664848	200.000	225(A)
	83 Dibenzo(a,h)anthracene	278	8.614	8.577	(1.104)	6726253	200.000	243(A)
	84 Benzo(g,h,i)perylene	276	8.810	8.770	(1.130)	5754821	200.000	217(A)
M	66 Total Methylphenol	108				1762090	200.000	189
	91 Acetophenone	105	2.327	2.321	(1.126)	1230209	200.000	186
	155 Benzaldehyde	77	1.796	1.791	(0.869)	67246	200.000	33.2
	156 Caprolactam	113	3.150	3.125	(1.109)	221804	200.000	183
	157 Biphenyl	154	3.559	3.556	(1.253)	1961771	200.000	197
	158 Atrazine	200	4.660	4.657	(0.966)	48524	200.000	70.5

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/MSSV1.i/2041227.s.b/a8560.d

Date : 27-DEC-2004 11:00

Client ID: STD200

Sample Info: 1206x4-16-9

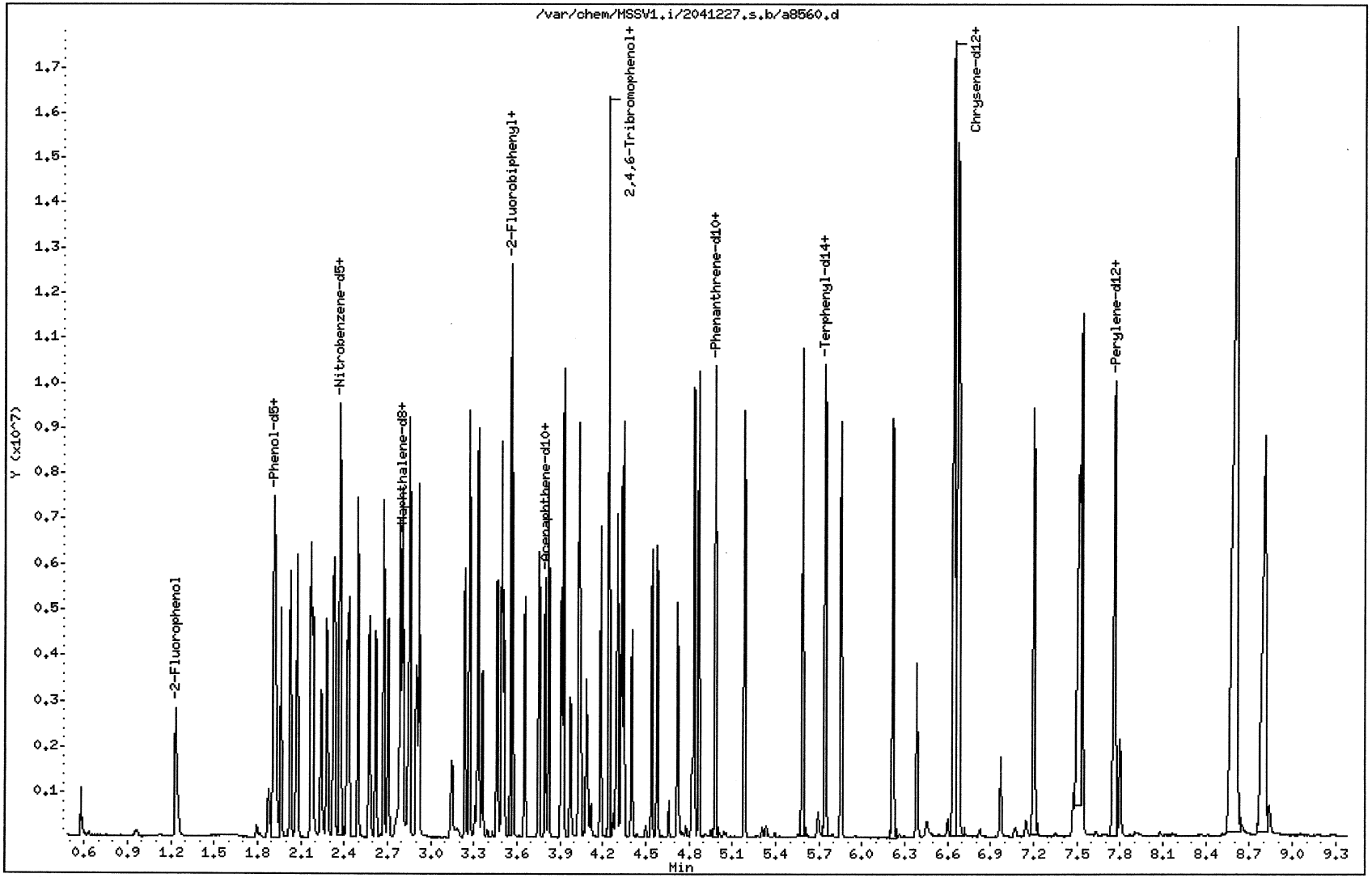
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25

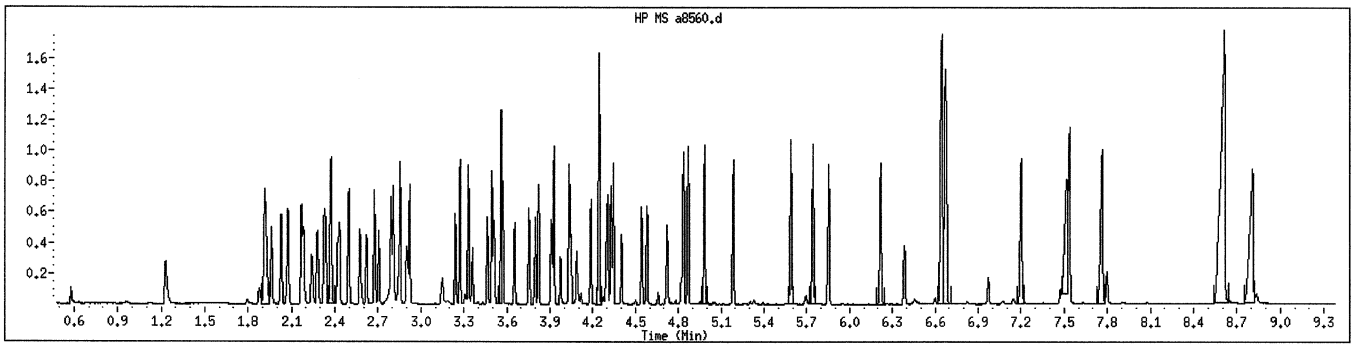


000355

Data file : /var/chem/MSSV1.i/2041227.s.b/a8560.d
Report Date: 12/27/2004 11:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1206	SampleType	: CALIB_6
Injection Date	: 27-DEC-2004 11:00	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1206*4-16-9		
Misc Info	: STD200*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.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/MSSV1.i/2041227.s.b/a8561.d
Lab Smp Id: 1207 Client Smp ID: STD001
Inj Date : 27-DEC-2004 11:17
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1207*4-16-10
Misc Info : STD001*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 27-DEC-2004 11:17 Cal File: a8561.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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	0.570	0.570	(0.277)	1278	1.00000	1.88
$ 3 2-Fluorophenol	112	1.231	1.229	(0.598)	7845	1.00000	0.865
$ 4 Phenol-d5	99	1.918	1.915	(0.931)	14522	1.00000	1.05
5 Aniline	93	1.867	1.870	(0.906)	14832	1.00000	1.39
6 Phenol +	94	1.924	1.924	(0.934)	14115	1.00000	0.986
7 bis(-2-Chloroethyl)Ether	63	1.901	1.904	(0.923)	7736	1.00000	0.864
8 2-Chlorophenol	128	1.961	1.961	(0.952)	9497	1.00000	1.03
9 1,3-Dichlorobenzene	146	2.023	2.026	(0.982)	9815	1.00000	0.894
* 10 1,4-Dichlorobenzene-d4	152	2.060	2.063	(1.000)	250217	40.0000	
11 1,4-Dichlorobenzene +	146	2.069	2.074	(1.004)	9068	1.00000	0.830
12 Benzyl alcohol	108	2.174	2.174	(1.055)	6300	1.00000	0.904
13 1,2-Dichlorobenzene	146	2.162	2.168	(1.050)	9904	1.00000	0.954

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
15 2-Methylphenol	108	2.270	2.276	(1.102)	9436	1.00000	0.995
14 Bis(2-chloroisopropyl)ether	45	2.236	2.239	(1.085)	8525	1.00000	0.991
17 3- & 4-Methylphenol	108	2.370	2.370	(1.150)	9096	1.00000	0.912
16 N-Nitroso-di-n-propylamine++	70	2.319	2.324	(1.125)	9253	1.00000	0.952
18 Hexachloroethane	117	2.367	2.367	(1.149)	5105	1.00000	0.994
$ 19 Nitrobenzene-d5	82	2.412	2.415	(0.850)	12270	1.00000	0.911
20 Nitrobenzene	77	2.424	2.426	(0.854)	13795	1.00000	0.976
21 Isophorone	82	2.565	2.568	(0.904)	21831	1.00000	0.969
22 2-Nitrophenol +	139	2.617	2.619	(0.922)	4014	1.00000	0.866
23 2,4-Dimethyphenol	107	2.670	2.670	(0.941)	9882	1.00000	0.863
24 bis(-2-Chloroethoxy)methane	93	2.699	2.702	(0.951)	11506	1.00000	0.913
26 2,4-Dichlorophenol +	162	2.790	2.790	(0.983)	6438	1.00000	0.943
27 1,2,4-Trichlorobenzene	180	2.804	2.807	(0.988)	6921	1.00000	0.881
* 28 Naphthalene-d8	136	2.838	2.841	(1.000)	878156	40.0000	
29 Naphthalene	128	2.849	2.852	(1.004)	25381	1.00000	0.943
30 4-Chloroaniline	127	2.900	2.903	(1.022)	9179	1.00000	1.10
31 Hexachlorobutadiene +	225	2.920	2.920	(1.029)	5494	1.00000	1.01
32 4-Chloro-3-Methylphenol +	107	3.232	3.235	(1.139)	8826	1.00000	1.000
33 2-Methylnaphthalene	142	3.269	3.272	(1.152)	15230	1.00000	0.914
145 1-Methylnapthalene	142	3.329	3.329	(1.173)	14818	1.00000	0.932
35 2,4,6-Trichlorophenol +	196	3.462	3.462	(0.887)	3764	1.00000	0.898
36 2,4,5-Trichlorphenol	196	3.508	3.508	(0.898)	4481	1.00000	1.03
$ 37 2-Fluorobiphenyl	172	3.494	3.496	(0.895)	16242	1.00000	1.05
38 2-Chloronaphthalene	162	3.565	3.567	(0.913)	13180	1.00000	0.989(M)
39 2-Nitroaniline	138	3.647	3.650	(0.934)	4458	1.00000	0.850
40 Dimethylphthalate	163	3.746	3.749	(0.959)	13313	1.00000	0.925(M)
41 2,6-Dinitrotoluene	165	3.905	3.794	(1.000)	50570	1.00000	15.6
42 Acenaphthylene	152	3.817	3.820	(0.977)	20726	1.00000	1.06
43 3-Nitroaniline	138	3.905	3.905	(1.000)	3443	1.00000	0.826
* 44 Acenaphthene-d10	164	3.905	3.905	(1.000)	395959	40.0000	
45 Acenaphthene +	153	3.922	3.925	(1.004)	14186	1.00000	1.03
49 4-Nitrophenol ++	109	4.092	4.087	(1.048)	2097	1.00000	0.686
47 Dibenzofuran	168	4.030	4.033	(1.032)	17519	1.00000	0.914
48 2,4-Dinitrotoluene	165	4.041	4.041	(1.035)	2788	1.00000	0.664(M)
50 Diethylphthalate	149	4.175	4.180	(1.069)	14214	1.00000	0.920
52 4-Chlorophenyl-phenylether	204	4.240	4.243	(1.086)	6192	1.00000	0.830
51 Fluorene	166	4.240	4.243	(1.086)	14392	1.00000	0.857
53 4-Nitroaniline	138	4.280	4.285	(1.096)	3276	1.00000	0.788
55 N-nitrosodiphenylamine (1)+	169	4.319	4.322	(0.897)	9379	1.00000	1.04
56 Azobenzene	77	4.337	4.339	(0.900)	24611	1.00000	1.07
$ 57 2,4,6-Tribromophenol	332	4.402	4.399	(1.127)	1664	1.00000	0.727
58 4-Bromophenyl-phenylether	248	4.538	4.541	(0.942)	3298	1.00000	1.06
59 Hexachlorobenzene	284	4.575	4.578	(0.950)	4282	1.00000	1.04
* 61 Phenanthrene-d10	188	4.816	4.819	(1.000)	559679	40.0000	
62 Phenanthrene	178	4.830	4.833	(1.003)	18819	1.00000	1.04
63 Anthracene	178	4.862	4.864	(1.009)	16502	1.00000	0.947
64 Carbazole	167	4.978	4.978	(1.034)	17109	1.00000	0.859

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	65 Di-n-butylphthalate	149	5.179	5.182	(1.075)	17215	1.00000	0.805
	67 Fluoranthene +	202	5.580	5.585	(1.159)	16275	1.00000	0.806
	68 Benzidine	184	5.688	5.690	(0.856)	2832	1.00000	3.36
	69 Pyrene	202	5.736	5.739	(0.863)	17439	1.00000	1.23
$	70 Terphenyl-d14	244	5.846	5.849	(0.880)	10699	1.00000	1.20
	71 Butylbenzylphthalate	149	6.213	6.215	(0.935)	7965	1.00000	1.06
	73 3,3'-Dichlorobenzidine	252	6.630	6.635	(0.998)	7527	1.00000	1.15
	72 Benzo(a)anthracene	228	6.633	6.638	(0.998)	19475	1.00000	1.26
*	74 Chrysene-d12	240	6.644	6.647	(1.000)	427886	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.667	6.667	(1.003)	13053	1.00000	1.26
	75 Chrysene	228	6.664	6.670	(1.003)	18047	1.00000	1.24
	77 Di-n-octylphthalate +	149	7.192	7.195	(1.082)	19505	1.00000	1.01
	78 Benzo(b)fluoranthene	252	7.487	7.495	(0.961)	17597	1.00000	0.760
	79 Benzo(k)fluoranthene	252	7.507	7.518	(0.964)	15557	1.00000	0.716
	80 Benzo(a)pyrene +	252	7.740	7.748	(0.994)	18767	1.00000	0.931
*	81 Perylene-d12	264	7.788	7.791	(1.000)	562124	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.554	8.568	(1.098)	25885	1.00000	0.756
	83 Dibenzo(a,h)anthracene	278	8.566	8.577	(1.100)	19373	1.00000	0.679
	84 Benzo(g,h,i)perylene	276	8.753	8.770	(1.124)	20563	1.00000	0.769
M	66 Total Methylphenol	108				18532	1.00000	0.953
	91 Acetophenone	105	2.321	2.321	(1.127)	13228	1.00000	0.957
	155 Benzaldehyde	77	1.788	1.791	(0.868)	4757	1.00000	1.12
	156 Caprolactam	113	3.108	3.125	(1.095)	2111	1.00000	0.852
	157 Biphenyl	154	3.553	3.556	(1.252)	18773	1.00000	0.923
	158 Atrazine	200	4.654	4.657	(0.966)	2990	1.00000	3.08

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2041227.s.b/a8561.d

Date : 27-DEC-2004 11:17

Client ID: STD001

Sample Info: 1207*4-16-10

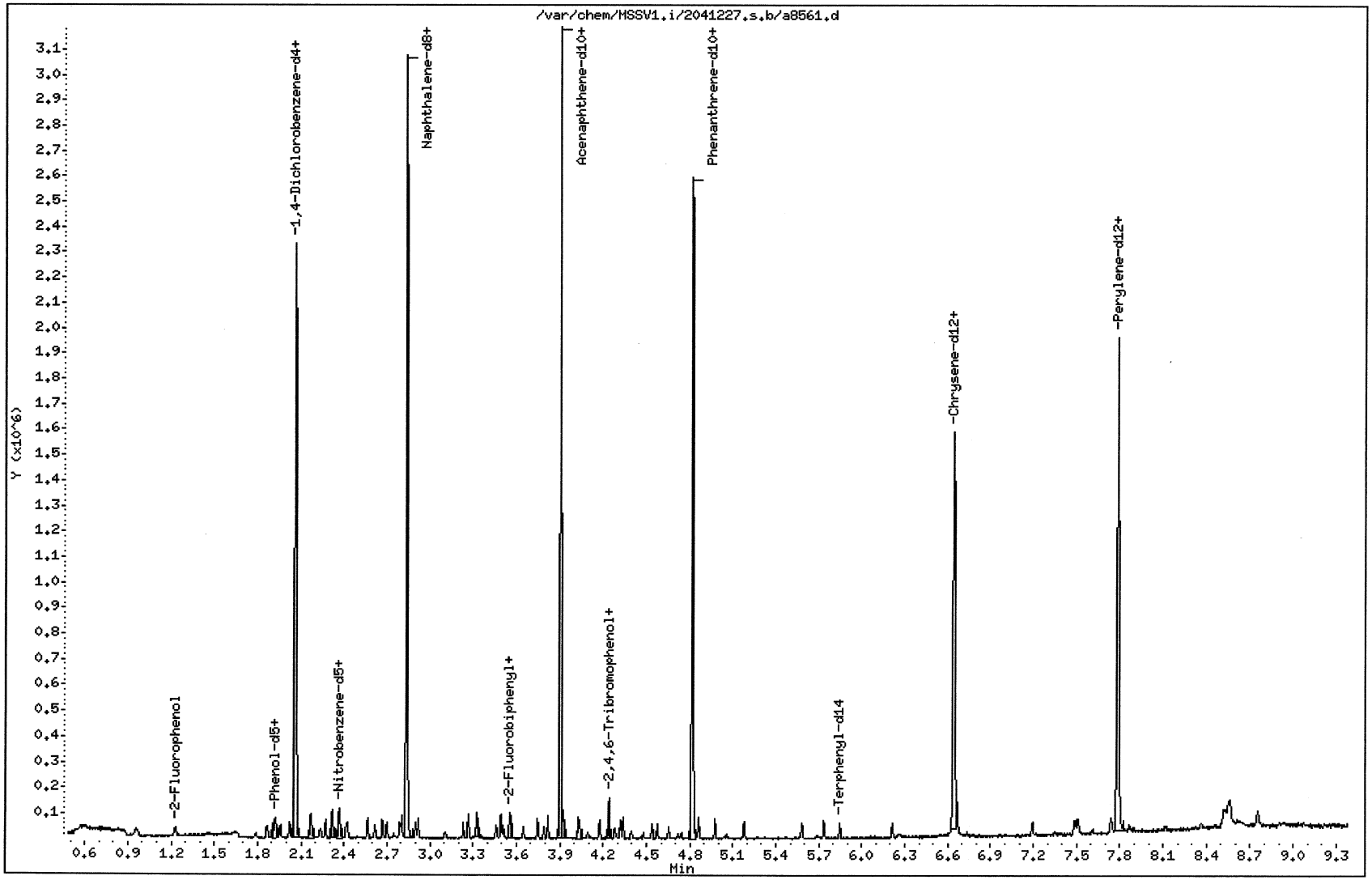
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25

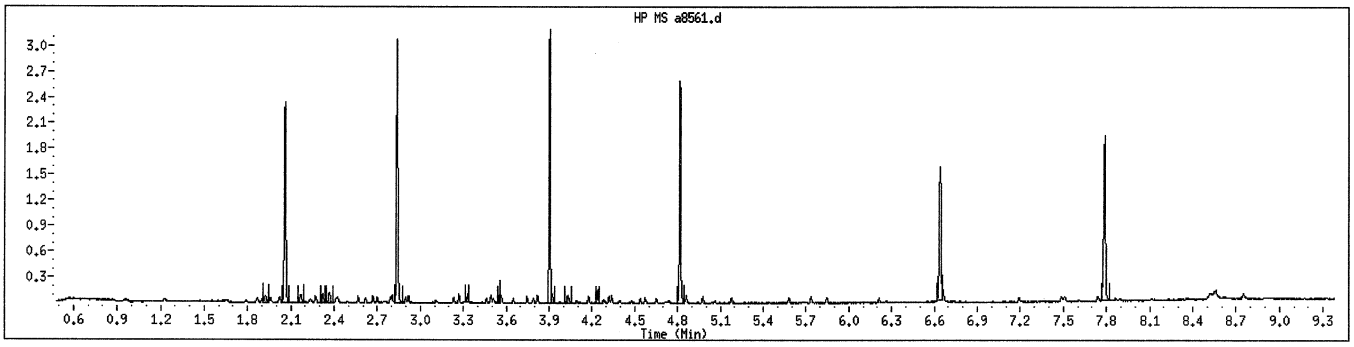


000360

Data file : /var/chem/MSSV1.i/2041227.s.b/a8561.d
Report Date: 12/27/2004 11:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1207	SampleType	: CALIB_7
Injection Date	: 27-DEC-2004 11:17	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1207*4-16-10		
Misc Info	: STD001*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original Final

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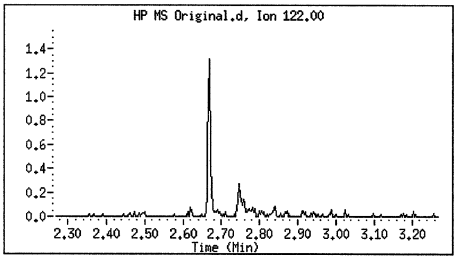
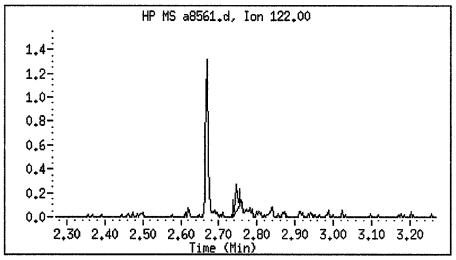
25 Benzoic Acid CAS#: 65-85-0





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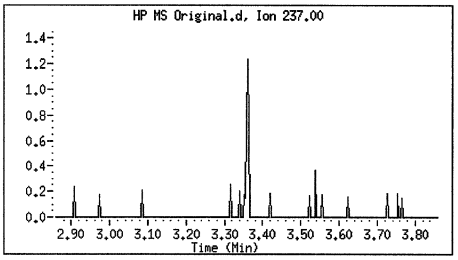
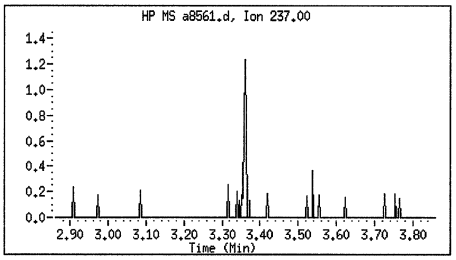
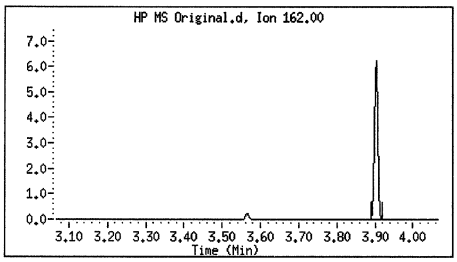
34 Hexachlorocyclopentadiene ++ CAS#: 77-47-4

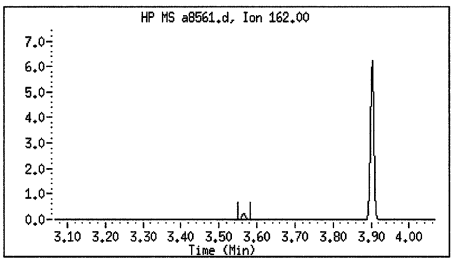




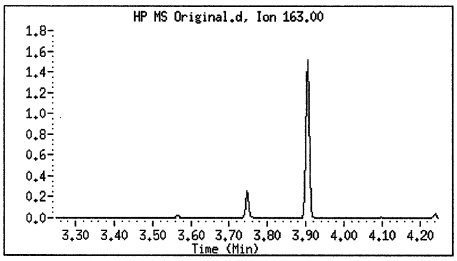
Original Final

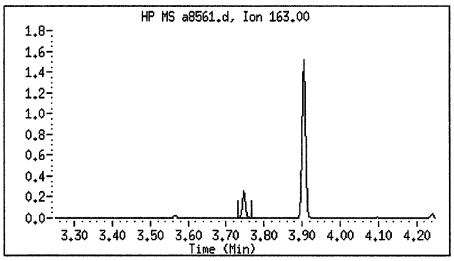
38 2-Chloronaphthalene CAS#: 91-58-7



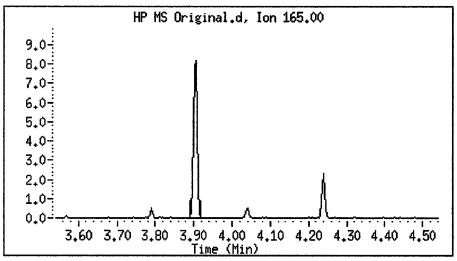


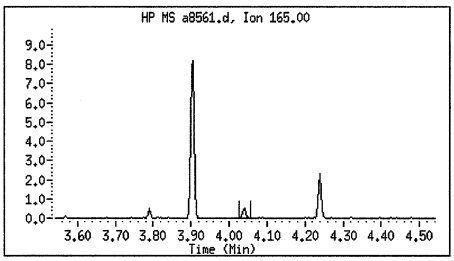
40 Dimethylphthalate CAS#: 131-11-3



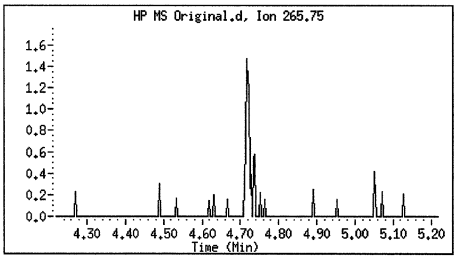


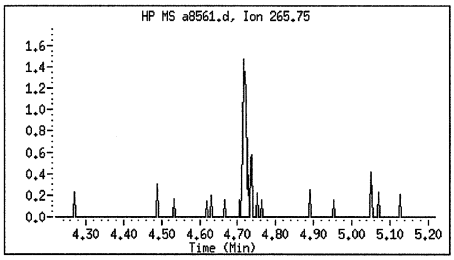
48 2,4-Dinitrotoluene CAS#: 121-14-2





60 Pentachlorophenol + CAS#: 87-86-5





GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2041227.s.b/a8562.d
Lab Smp Id: 1208 Client Smp ID: STD0.2
Inj Date : 27-DEC-2004 11:35
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1208*4-16-11
Misc Info : STD0.2*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 27-DEC-2004 11:35 Cal File: a8562.d
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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)
* 10 1,4-Dichlorobenzene-d4	152	2.060	2.063	(1.000)	328328	40.0000	
17 3- & 4-Methylphenol	108	2.835	2.370	(1.376)	157898	0.20000	12.2
$ 19 Nitrobenzene-d5	82	2.835	2.415	(0.999)	53869	0.20000	2.94
* 28 Naphthalene-d8	136	2.838	2.841	(1.000)	1208994	40.0000	
41 2,6-Dinitrotoluene	165	3.902	3.794	(0.999)	69435	0.20000	15.5
* 44 Acenaphthene-d10	164	3.905	3.905	(1.000)	557652	40.0000	
48 2,4-Dinitrotoluene	165	3.902	4.041	(0.999)	69435	0.20000	11.9
* 61 Phenanthrene-d10	188	4.816	4.819	(1.000)	776115	40.0000	
72 Benzo(a)anthracene	228	6.636	6.638	(0.999)	8327	0.20000	0.546
* 74 Chrysene-d12	240	6.644	6.647	(1.000)	426828	40.0000	
* 81 Perylene-d12	264	7.785	7.791	(1.000)	535909	40.0000	
M 66 Total Methylphenol	108				160587	0.20000	6.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
155 Benzaldehyde	77	2.060	1.791	(1.000)	28534	0.20000	5.11

Data File: /var/chem/MSSV1.i/2041227.s.b/a8562.d

Date : 27-DEC-2004 11:35

Client ID: STD0.2

Sample Info: 1208*4-16-11

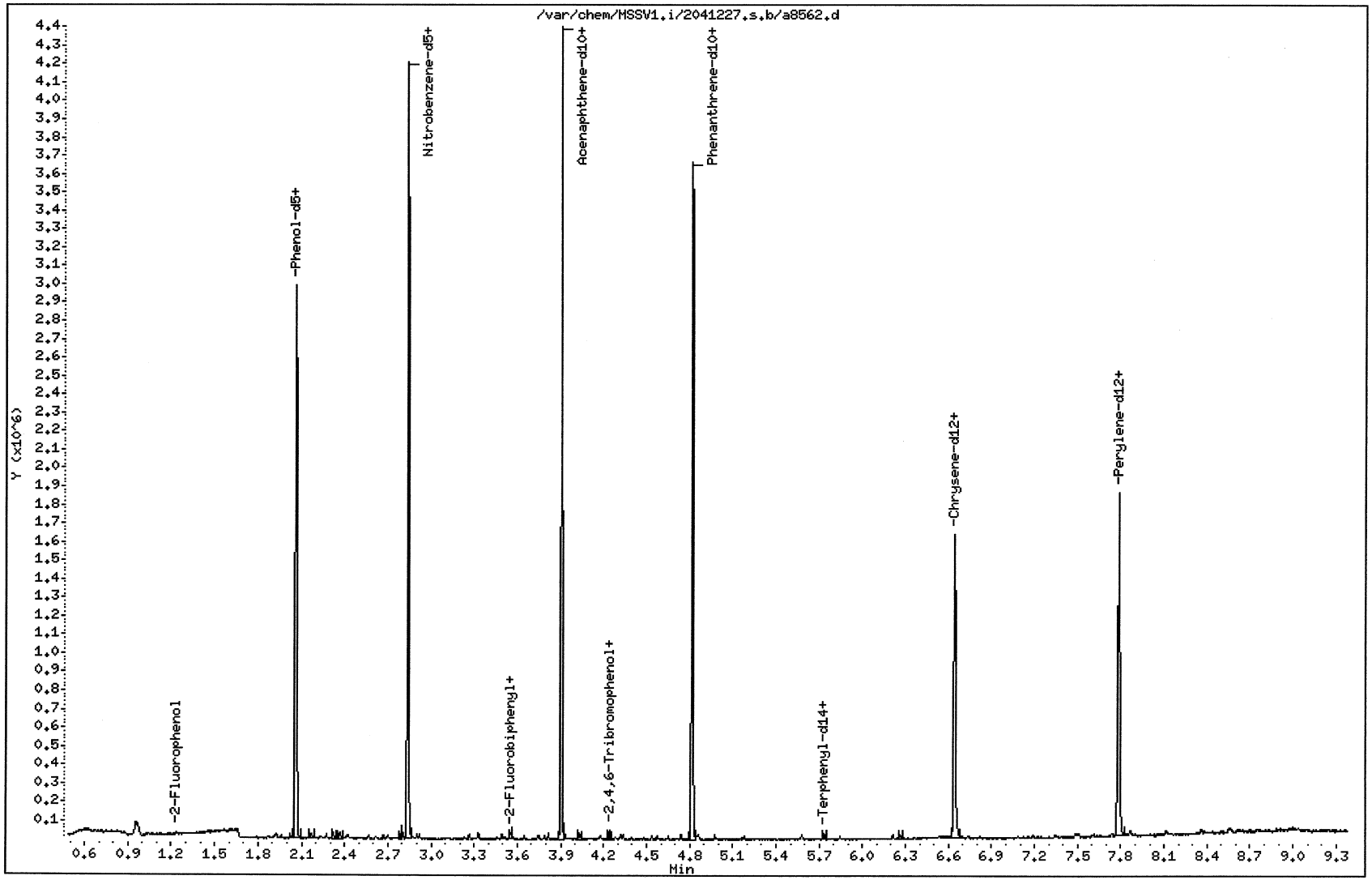
Volume Injected (uL): 1.0

Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3

Column diameter: 0.25

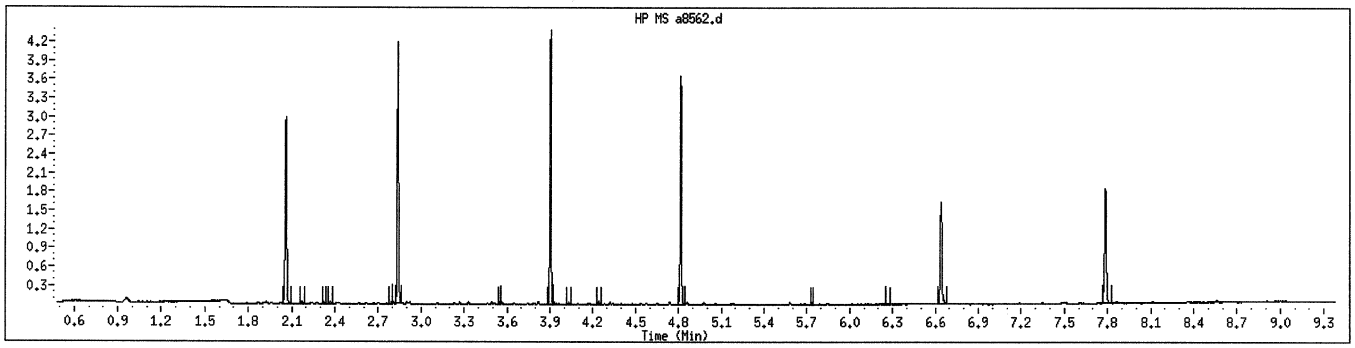


000365

Data file : /var/chem/MSSV1.i/2041227.s.b/a8562.d
Report Date: 12/27/2004 11:45

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1208	SampleType	: CALIB_8
Injection Date	: 27-DEC-2004 11:35	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1208*4-16-11		
Misc Info	: STD0.2*MSSV~2458~		
Method	: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

Data file : /var/chem/MSSV1.i/2041227.s.b/a8563.d
Report Date: 12/27/2004 11:43

GCAL, Inc.

RECOVERY REPORT

Client Name: 4-16-12
Sample Matrix: LIQUID
Lab Smp Id: ICV050
Level: LOW
Data Type: MS DATA
SpikeList File: ICV70.spk
Sublist File: ICV.sub
Method File: /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Misc Info: ICV050*MSSV~2458~

Client SDG: 2041227.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	50.7	101.44	75-125
2 Pyridine	50.0	52.5	105.09	75-125
5 Aniline	50.0	42.9	85.86	75-125
6 Phenol +	50.0	43.5	86.92	75-125
7 bis(-2-Chloroethyl)Ether	50.0	52.3	104.52	75-125
8 2-Chlorophenol	50.0	45.4	90.71	75-125
9 1,3-Dichlorobenzene	50.0	48.4	96.72	75-125
11 1,4-Dichlorobenzene +	50.0	47.9	95.74	75-125
12 Benzyl alcohol	50.0	44.5	88.96	75-125
13 1,2-Dichlorobenzene	50.0	47.4	94.90	75-125
14 Bis(2-chloroisopropyl)ether	50.0	51.8	103.68	75-125
15 2-Methylphenol	50.0	43.6	87.20	75-125
16 N-Nitroso-di-n-propylamine++	50.0	46.1	92.26	75-125
17 3- & 4-Methylphenol	50.0	43.8	87.50	75-125
18 Hexachloroethane	50.0	47.0	94.04	75-125
20 Nitrobenzene	50.0	50.1	100.27	75-125
21 Isophorone	50.0	45.4	90.85	75-125
22 2-Nitrophenol +	50.0	48.4	96.82	75-125
23 2,4-Dimethyphenol	50.0	46.1	92.17	75-125
24 bis(-2-Chloroethoxy)methane	50.0	52.2	104.37	75-125
25 Benzoic Acid	50.0	33.3	66.69*	75-125
26 2,4-Dichlorophenol +	50.0	45.6	91.28	75-125
27 1,2,4-Trichlorobenzene	50.0	49.4	98.70	75-125
29 Naphthalene	50.0	47.9	95.87	75-125
30 4-Chloroaniline	50.0	48.3	96.56	75-125
31 Hexachlorobutadiene +	50.0	49.2	98.42	75-125
32 4-Chloro-3-Methylphenol +	50.0	43.1	86.21	75-125
33 2-Methylnaphthalene	50.0	47.3	94.52	75-125
34 Hexachlorocyclopentadiene ++	50.0	50.3	100.51	75-125
35 2,4,6-Trichlorophenol +	50.0	46.7	93.44	75-125

Data file : /var/chem/MSSV1.i/2041227.s.b/a8563.d
Report Date: 12/27/2004 11:43

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
36	2,4,5-Trichlorphenol	50.0	46.4	92.90	75-125
38	2-Chloronaphthalene	50.0	49.5	99.06	75-125
39	2-Nitroaniline	50.0	45.4	90.80	75-125
40	Dimethylphthalate	50.0	49.3	98.51	75-125
41	2,6-Dinitrotoluene	50.0	45.9	91.80	75-125
42	Acenaphthylene	50.0	55.9	111.75	75-125
43	3-Nitroaniline	50.0	46.6	93.23	75-125
45	Acenaphthene +	50.0	48.3	96.67	75-125
46	2,4-Dinitrophenol ++	50.0	45.9	91.82	75-125
47	Dibenzofuran	50.0	47.3	94.57	75-125
48	2,4-Dinitrotoluene	50.0	47.3	94.62	75-125
49	4-Nitrophenol ++	50.0	46.4	92.70	75-125
50	Diethylphthalate	50.0	48.7	97.30	75-125
51	Fluorene	50.0	44.6	89.19	75-125
52	4-Chlorophenyl-phenylether	50.0	47.8	95.69	75-125
53	4-Nitroaniline	50.0	47.2	94.32	75-125
54	4,6-Dinitro-o-cresol	50.0	47.9	95.81	75-125
55	N-nitrosodiphenylamine (1)+	50.0	48.8	97.52	75-125
56	Azobenzene	50.0	48.3	96.70	75-125
58	4-Bromophenyl-phenylether	50.0	49.6	99.24	75-125
59	Hexachlorobenzene	50.0	45.9	91.84	75-125
60	Pentachlorophenol +	50.0	42.9	85.73	75-125
62	Phenanthrene	50.0	47.7	95.44	75-125
63	Anthracene	50.0	47.4	94.86	75-125
65	Di-n-butylphthalate	50.0	53.3	106.64	75-125
67	Fluoranthene +	50.0	49.0	97.96	75-125
69	Pyrene	50.0	43.9	87.88	75-125
71	Butylbenzylphthalate	50.0	49.5	99.00	75-125
72	Benzo(a)anthracene	50.0	45.6	91.24	75-125
73	3,3'-Dichlorobenzidine	50.0	45.8	91.58	75-125
75	Chrysene	50.0	44.5	88.98	75-125
76	bis(2-Ethylhexyl)phthalate	50.0	50.3	100.66	75-125
77	Di-n-octylphthalate +	50.0	51.4	102.88	75-125
78	Benzo(b)fluoranthene	50.0	39.6	79.19	75-125
79	Benzo(k)fluoranthene	50.0	46.2	92.43	75-125
80	Benzo(a)pyrene +	50.0	42.2	84.39	75-125
82	Indeno(1,2,3-cd)pyrene	50.0	42.2	84.47	75-125
83	Dibenzo(a,h)anthracene	50.0	43.0	86.01	75-125
84	Benzo(g,h,i)perylene	50.0	41.7	83.49	75-125

Data file : /var/chem/MSSV1.i/2041227.s.b/a8563.d
Report Date: 12/27/2004 11:43

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 2-Fluorophenol	50.0	47.9	95.76	80-120
$ 4 Phenol-d5	50.0	44.0	87.97	80-120
$ 19 Nitrobenzene-d5	50.0	48.7	97.42	80-120
$ 37 2-Fluorobiphenyl	50.0	50.5	101.10	80-120
$ 57 2,4,6-Tribromophenol	50.0	42.9	85.83	80-120
$ 70 Terphenyl-d14	50.0	45.9	91.72	80-120

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2041227.s.b/a8563.d
Lab Smp Id: ICV050 Client Smp ID: ICV050
Inj Date : 27-DEC-2004 11:53
Operator : jar3 Inst ID: MSSV1.i
Smp Info : ICV050*4-16-12
Misc Info : ICV050*MSSV~2458~
Comment :
Method : /var/chem/MSSV1.i/2041227.s.b/8270CE_01.m
Meth Date : 27-Dec-2004 11:36 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 10 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICV.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	0.573	0.579	(0.278)	79534	52.5431	52.5
1 n-Nitrosodimethylamine	42	0.565	0.570	(0.274)	22780	50.7194	50.7
$ 3 2-Fluorophenol	112	1.217	1.229	(0.591)	287309	47.8821	47.9
$ 4 Phenol-d5	99	1.910	1.915	(0.927)	402390	43.9870	44.0
5 Aniline	93	1.864	1.870	(0.905)	305974	42.9313	42.9
6 Phenol +	94	1.918	1.924	(0.931)	410687	43.4595	43.5
7 bis(-2-Chloroethyl)Ether	63	1.901	1.904	(0.923)	310267	52.2592	52.3
8 2-Chlorophenol	128	1.955	1.961	(0.949)	276289	45.3571	45.4
9 1,3-Dichlorobenzene	146	2.021	2.026	(0.981)	351499	48.3619	48.4
* 10 1,4-Dichlorobenzene-d4	152	2.060	2.063	(1.000)	167595	40.0000	
11 1,4-Dichlorobenzene +	146	2.072	2.074	(1.006)	345820	47.8715	47.9
12 Benzyl alcohol	108	2.171	2.174	(1.054)	204622	44.4784	44.5
13 1,2-Dichlorobenzene	146	2.165	2.168	(1.051)	326052	47.4492	47.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
	15 2-Methylphenol	108	2.273	2.276	(1.103)	273386	43.5981	43.6
	14 Bis(2-chloroisopropyl)ether	45	2.236	2.239	(1.085)	295772	51.8402	51.8
	17 3- & 4-Methylphenol	108	2.367	2.370	(1.149)	288077	43.7522	43.8
	16 N-Nitroso-di-n-propylamine++	70	2.324	2.324	(1.128)	296505	46.1285	46.1
	18 Hexachloroethane	117	2.367	2.367	(1.149)	160120	47.0182	47.0
$	19 Nitrobenzene-d5	82	2.412	2.415	(0.850)	413320	48.7094	48.7
	20 Nitrobenzene	77	2.426	2.426	(0.855)	447929	50.1369	50.1
	21 Isophorone	82	2.566	2.568	(0.904)	644872	45.4230	45.4
	22 2-Nitrophenol +	139	2.617	2.619	(0.922)	141269	48.4087	48.4
	23 2,4-Dimethyphenol	107	2.671	2.670	(0.941)	332086	46.0833	46.1
	24 bis(-2-Chloroethoxy)methane	93	2.702	2.702	(0.952)	414202	52.1873	52.2
	25 Benzoic Acid	122	2.767	2.770	(0.975)	101122	33.3431	33.3(R)
	26 2,4-Dichlorophenol +	162	2.790	2.790	(0.983)	195619	45.6384	45.6
	27 1,2,4-Trichlorobenzene	180	2.804	2.807	(0.988)	244250	49.3520	49.4
*	28 Naphthalene-d8	136	2.838	2.841	(1.000)	560493	40.0000	
	29 Naphthalene	128	2.852	2.852	(1.005)	811680	47.9353	47.9
	30 4-Chloroaniline	127	2.900	2.903	(1.022)	253993	48.2777	48.3
	31 Hexachlorobutadiene +	225	2.920	2.920	(1.029)	168822	49.2111	49.2
	32 4-Chloro-3-Methylphenol +	107	3.232	3.235	(1.139)	239134	43.1047	43.1
	33 2-Methylnaphthalene	142	3.269	3.272	(1.152)	499634	47.2621	47.3
	145 1-Methylnapthalene	142	3.329	3.329	(1.173)	442788	44.4110	44.4
	34 Hexachlorocyclopentadiene ++	237	3.360	3.360	(0.860)	104349	50.2534	50.3
	35 2,4,6-Trichlorophenol +	196	3.462	3.462	(0.887)	125522	46.7224	46.7
	36 2,4,5-Trichlorphenol	196	3.508	3.508	(0.898)	129167	46.4480	46.4
$	37 2-Fluorobiphenyl	172	3.494	3.496	(0.895)	503273	50.5481	50.5
	38 2-Chloronaphthalene	162	3.567	3.567	(0.914)	424066	49.5317	49.5
	39 2-Nitroaniline	138	3.650	3.650	(0.935)	152734	45.3979	45.4
	40 Dimethylphthalate	163	3.749	3.749	(0.960)	454420	49.2537	49.3
	41 2,6-Dinitrotoluene	165	3.792	3.794	(0.971)	95040	45.8991	45.9
	42 Acenaphthylene	152	3.820	3.820	(0.978)	700639	55.8770	55.9
	43 3-Nitroaniline	138	3.905	3.905	(1.000)	124697	46.6129	46.6
*	44 Acenaphthene-d10	164	3.905	3.905	(1.000)	257261	40.0000	
	45 Acenaphthene +	153	3.925	3.925	(1.005)	425938	48.3362	48.3
	46 2,4-Dinitrophenol ++	184	3.970	3.967	(1.017)	56106	45.9099	45.9
	49 4-Nitrophenol ++	109	4.081	4.087	(1.045)	90809	46.3524	46.4
	47 Dibenzofuran	168	4.030	4.033	(1.032)	581731	47.2835	47.3
	48 2,4-Dinitrotoluene	165	4.041	4.041	(1.035)	127126	47.3087	47.3
	50 Diethylphthalate	149	4.180	4.180	(1.070)	481387	48.6514	48.7
	52 4-Chlorophenyl-phenylether	204	4.240	4.243	(1.086)	228293	47.8431	47.8
	51 Fluorene	166	4.240	4.243	(1.086)	478847	44.5944	44.6
	53 4-Nitroaniline	138	4.285	4.285	(1.097)	125852	47.1621	47.2
	54 4,6-Dinitro-o-cresol	198	4.291	4.294	(0.891)	77605	47.9061	47.9
	55 N-nitrosodiphenylamine (1)+	169	4.322	4.322	(0.897)	317283	48.7588	48.8
	56 Azobenzene	77	4.339	4.339	(0.901)	807089	48.3481	48.3
$	57 2,4,6-Tribromophenol	332	4.399	4.399	(1.126)	62632	42.9130	42.9
	58 4-Bromophenyl-phenylether	248	4.541	4.541	(0.943)	112173	49.6196	49.6
	59 Hexachlorobenzene	284	4.578	4.578	(0.950)	136485	45.9213	45.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/L)
	60 Pentachlorophenol +	266	4.717	4.720	(0.979)	74281	42.8643	42.9
*	61 Phenanthrene-d10	188	4.816	4.819	(1.000)	410960	40.0000	
	62 Phenanthrene	178	4.833	4.833	(1.004)	624471	47.7193	47.7
	63 Anthracene	178	4.864	4.864	(1.010)	599164	47.4314	47.4
	64 Carbazole	167	4.978	4.978	(1.034)	701607	48.4977	48.5
	65 Di-n-butylphthalate	149	5.182	5.182	(1.076)	827356	53.3218	53.3
	67 Fluoranthene +	202	5.585	5.585	(1.160)	717865	48.9797	49.0
	68 Benzidine	184	5.847	5.690	(0.880)	8985	8.99182	8.99(a)
	69 Pyrene	202	5.739	5.739	(0.863)	732336	43.9399	43.9
$	70 Terphenyl-d14	244	5.849	5.849	(0.880)	478953	45.8624	45.9
	71 Butylbenzylphthalate	149	6.213	6.215	(0.935)	437313	49.5015	49.5
	73 3,3'-Dichlorobenzidine	252	6.633	6.635	(0.998)	352490	45.7875	45.8
	72 Benzo(a)anthracene	228	6.638	6.638	(0.999)	829770	45.6216	45.6
*	74 Chrysene-d12	240	6.647	6.647	(1.000)	508814	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.667	6.667	(1.003)	615018	50.3283	50.3
	75 Chrysene	228	6.670	6.670	(1.003)	762568	44.4883	44.5
	77 Di-n-octylphthalate +	149	7.195	7.195	(1.082)	1173444	51.4381	51.4
	78 Benzo(b)fluoranthene	252	7.496	7.495	(0.962)	935764	39.5966	39.6
	79 Benzo(k)fluoranthene	252	7.515	7.518	(0.965)	1028049	46.2145	46.2
	80 Benzo(a)pyrene +	252	7.745	7.748	(0.994)	901765	42.1926	42.2
*	81 Perylene-d12	264	7.791	7.791	(1.000)	584427	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.566	8.568	(1.099)	1480426	42.2350	42.2
	83 Dibenzo(a,h)anthracene	278	8.577	8.577	(1.101)	1256649	43.0027	43.0
	84 Benzo(g,h,i)perylene	276	8.770	8.770	(1.126)	1142508	41.7453	41.7
M	66 Total Methylphenol	108				561463	43.6770	43.7
	91 Acetophenone	105	2.319	2.321	(1.125)	421912	46.1553	46.2
	155 Benzaldehyde	77	1.785	1.791	(0.866)	121674	42.7270	42.7
	156 Caprolactam	113	3.122	3.125	(1.100)	69930	45.0176	45.0
	157 Biphenyl	154	3.556	3.556	(1.253)	586750	45.9194	45.9
	158 Atrazine	200	4.654	4.657	(0.966)	12035	16.9960	17.0

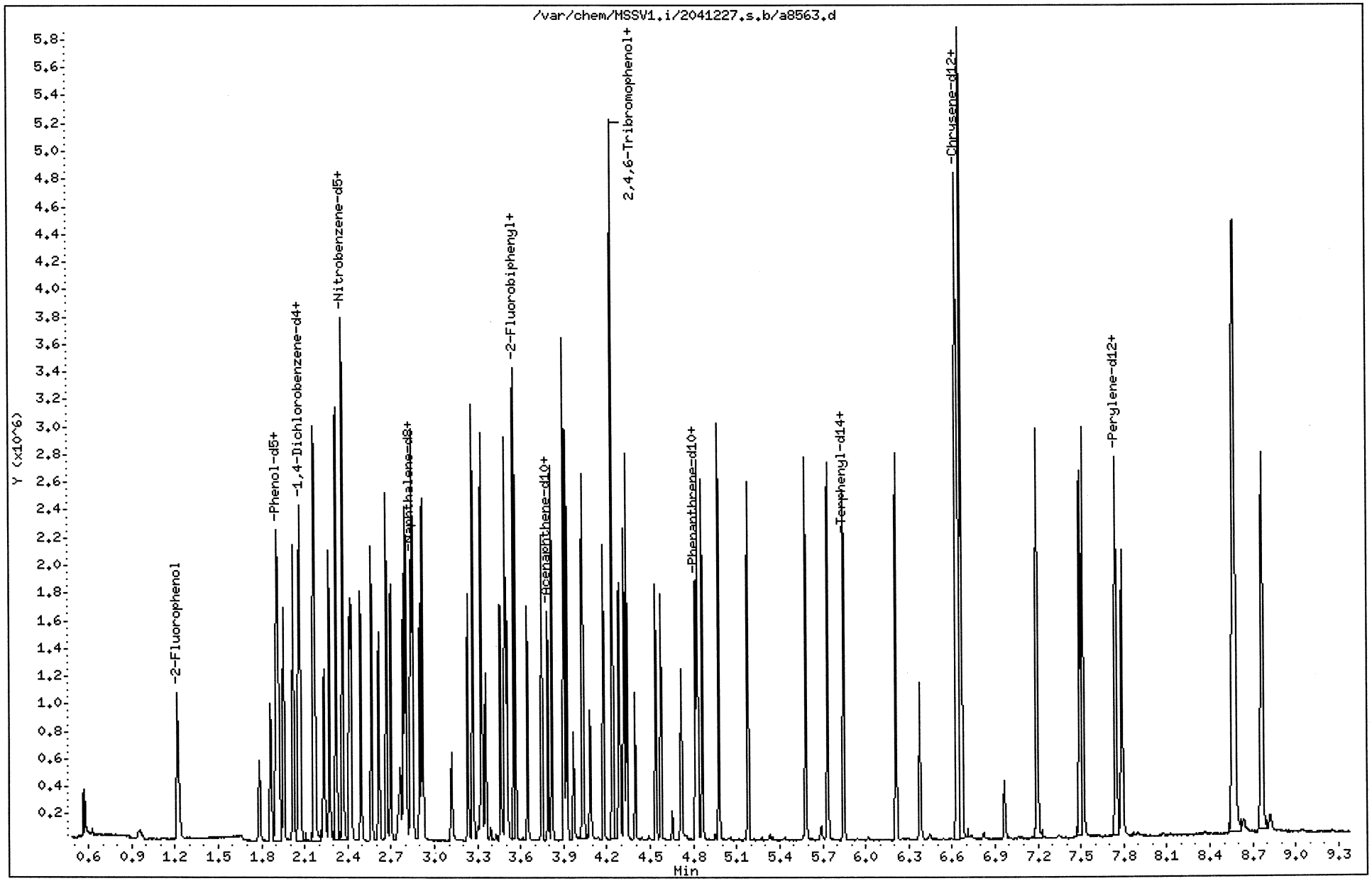
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/MSSV1.i/2041227.s.b/a8563.d
Date : 27-DEC-2004 11:53
Client ID: ICV050
Sample Info: ICV050*4-16-12
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i
Operator: jar3
Column diameter: 0.25

000373



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSSV1

Calibration Date: 01/03/05 Time: 0958

Lab File ID: 2050103/A8617

Init. Calib. Date 1: 11/30/04 Time 1: 1319

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1135

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285687

COMPOUND	RRF	RRF50	Min RRF	%D	Max %D	TYPE
Acenaphthylene	1.950	2.211	.01	13.4	50	A
Anthracene	1.230	1.195	.01	-2.79	50	A
Benzo(a)anthracene	1.430	1.394	.01	-2.5	50	A
Benzidine	0.079	0.096	.01	22	50	A
Benzo(b)fluoranthene	1.617	1.408	.01	-12.9	50	A
Benzo(k)fluoranthene	1.523	1.550	.01	1.82	50	A
Benzo(g,h,i)perylene	1.873	1.248	.01	-33.3	50	A
Benzo(a)pyrene	1.463	1.316	.01	-10.0	20	A
Benzoic acid	0.216	0.158	.01	-26.7	50	A
Butylbenzylphthalate	0.694	0.737	.01	6.17	50	A
Bis(2-Chloroethoxy)methane	0.566	0.538	.01	-4.99	50	A
Bis(2-Chloroethyl)ether	1.417	1.415	.01	-.13	50	A
bis(2-Chloroisopropyl)ether	1.362	1.253	.01	-7.99	50	A
bis(2-ethylhexyl)phthalate	0.961	0.956	.01	-.51	50	A
4-Bromophenyl-phenylether	0.220	0.214	.01	-2.77	50	A
Carbazole	1.408	1.312	.01	-6.85	50	A
4-Chlorophenyl-phenylether	0.742	0.697	.01	-6.01	50	A
Chrysene	1.348	1.279	.01	-5.09	50	A
Dibenz(a,h)anthracene	2.000	1.336	.01	-33.1	50	A
Dibenzofuran	1.913	1.881	.01	-1.66	50	A
1,2-Dichlorobenzene	1.640	1.561	.01	-4.81	50	A
1,3-Dichlorobenzene	1.735	1.596	.01	-7.99	50	A
3,3'-Dichlorobenzidine	0.605	0.520	.01	-14.0	50	A
2,4-Dichlorophenol	0.306	0.296	.01	-3.27	20	A
Diethylphthalate	1.538	1.463	.01	-4.89	50	A
2,4-Dimethylphenol	0.514	0.500	.01	-2.69	50	A
Dimethyl-phthalate	1.435	1.383	.01	-3.57	50	A
Di-n-octylphthalate	1.793	1.684	.01	-6.13	20	A
2,6-Dinitrotoluene	0.322	0.311	.01	-3.43	50	A
Fluoranthene	1.427	1.294	.01	-9.31	20	A
Fluorene	1.670	1.585	.01	-5.08	50	A
Hexachlorobenzene	0.289	0.265	.01	-8.41	50	A
Hexachlorobutadiene	0.245	0.238	.01	-2.75	20	A
Hexachlorocyclopentadiene	0.323	0.326	.05	.9	50	A
Hexachloroethane	0.813	0.783	.01	-3.7	50	A
Isophorone	1.013	0.979	.01	-3.34	50	A
Indeno(1,2,3-cd)pyrene	2.399	1.571	.01	-34.5	50	A
2-Methylnaphthalene	0.754	0.731	.01	-3.11	50	A

FORM V II VOA

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSSV1

Calibration Date: 01/03/05 Time: 0958

Lab File ID: 2050103/A8617

Init. Calib. Date 1: 11/30/04 Time 1: 1319

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1135

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285687

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	TYPE
o-Cresol	1.497	1.350	.01	-9.77	50	A
Naphthalene	1.208	1.178	.01	-2.48	50	A
Nitrobenzene	0.638	0.631	.01	-.99	50	A
2-Nitrophenol	0.208	0.203	.01	-2.76	20	A
N-Nitrosodimethylamine	0.107	0.104	.01	-3.16	50	A
N-Nitrosodiphenylamine	0.633	0.626	.01	-1.1	20	A
Phenanthrene	1.274	1.224	.01	-3.9	50	A
2,4,5-Trichlorophenol	0.432	0.437	.01	1	50	A
2,4,6-Trichlorophenol	0.418	0.405	.01	-2.96	20	A
Benzyl alcohol	1.098	1.043	.01	-5.04	50	A
Aniline	1.701	1.951	.01	14.7	50	A
Pyridine	0.361	0.328	.01	-9.34	50	A
Caprolactam	0.111	0.108	.01	-2.95	50	A
Acetophenone	2.182	2.027	.01	-7.1	50	A
3-Nitroaniline	0.416	0.398	.01	-4.24	50	A
4-Nitroaniline	0.415	0.402	.01	-3.13	50	A
Di-n-butylphthalate	1.510	1.457	.01	-3.55	50	A
1,2 Diphenylhydrazine	1.625	1.607	.01	-1.08	50	A
2-Nitroaniline	0.523	0.508	.01	-2.8	50	A
2-Chloronaphthalene	1.331	1.284	.01	-3.53	50	A
4-Chloroaniline	0.375	0.428	.01	13.9	50	A
Atrazine (Aatrex)	0.069	0.117	.01	69.1	50	A
Benzaldehyde	0.680	0.968	.01	42.4	50	A
Biphenyl	0.912	0.857	.01	-6.07	50	A
Cresols	3.068	2.796	.01	-8.88	50	A
m,p-Cresol	1.571	1.445	.01	-8.04	50	A
2-Methyl-4,6-dinitrophenol	0.158	0.125	.01	-20.5	50	A
1-Methylnaphthalene	0.712	0.678	.01	-4.75	50	A
Phenol	2.255	2.179	.01	-3.4	20	A
2-Chlorophenol	1.454	1.382	.01	-4.95	50	A
1,4-Dichlorobenzene	1.724	1.644	.01	-4.67	20	A
N-Nitroso-di-n-propylamine	1.534	1.424	.05	-7.21	50	A
1,2,4-Trichlorobenzene	0.353	0.352	.01	-.47	50	A
4-Chloro-3-methylphenol	0.396	0.372	.01	-6.09	20	A
Acenaphthene	1.370	1.364	.01	-.41	20	A
4-Nitrophenol	0.305	0.270	.05	-11.4	50	A
2,4-Dinitrotoluene	0.418	0.406	.01	-2.78	50	A
Pyrene	1.310	1.471	.01	12.3	50	A

FORM V II VOA

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Instrument ID: MSSV1

Calibration Date: 01/03/05 Time: 0958

Lab File ID: 2050103/A8617

Init. Calib. Date 1: 11/30/04 Time 1: 1319

Heated Purge: (Y/N) N

Init. Calib. Date 2: 12/27/04 Time 2: 1135

GC Column: RTX-5MS-30 ID: .53 (mm)

Analytical Batch: 285687

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	%D	Max %D	TYPE
Nitrobenzene-d5	0.606	0.600	.01	-.88	50	A
2-Fluorobiphenyl	1.548	1.511	.01	-2.4	50	A
Terphenyl-d14	0.821	0.902	.01	9.89	50	A
Phenol-d5	2.183	2.091	.01	-4.21	50	A
2-Fluorophenol	1.432	1.352	.01	-5.6	50	A
2,4,6-Tribromophenol	0.227	0.213	.01	-6.04	50	A

FORM V II VOA

GCAL, Inc.

Data file : /var/chem/MSSV1.i/2050103.s.b/a8616.d
Lab Smp Id: 1100 Client Smp ID: DFTPP
Inj Date : 03-JAN-2005 09:42
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1100*4-16-3
Misc Info : DFTPP*MSSV~2461~
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/dftpp_01.m
Meth Date : 02-Dec-2004 08:22 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		
4.941	5.175	-0.234	198	125549			100.00- 100.00	100.00
4.941	5.175	-0.234	51	53057			30.00- 60.00	42.26
4.941	5.175	-0.234	68	0			0.00- 2.00	0.00
4.941	5.175	-0.234	69	88726			0.00- 0.00	70.67
4.941	5.175	-0.234	70	794			0.00- 2.00	0.89
4.941	5.175	-0.234	127	72164			40.00- 60.00	57.48
4.941	5.175	-0.234	197	0			0.00- 1.00	0.00
4.941	5.175	-0.234	199	9252			5.00- 9.00	7.37
4.941	5.175	-0.234	275	33229			10.00- 30.00	26.47
4.941	5.175	-0.234	365	5213			1.00- 0.00	4.15
4.941	5.175	-0.234	441	16214			0.01- 99.99	82.70
4.941	5.175	-0.234	442	99098			40.00- 100.00	78.93

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp (continued)								
4.941	5.175	-0.234	443	19605			17.00- 23.00	19.78

Data File: /var/chem/MSSV1.i/2050103.s.b/a8616.d

Date : 03-JAN-2005 09:42

Client ID: DFTPP

Instrument: MSSV1.i

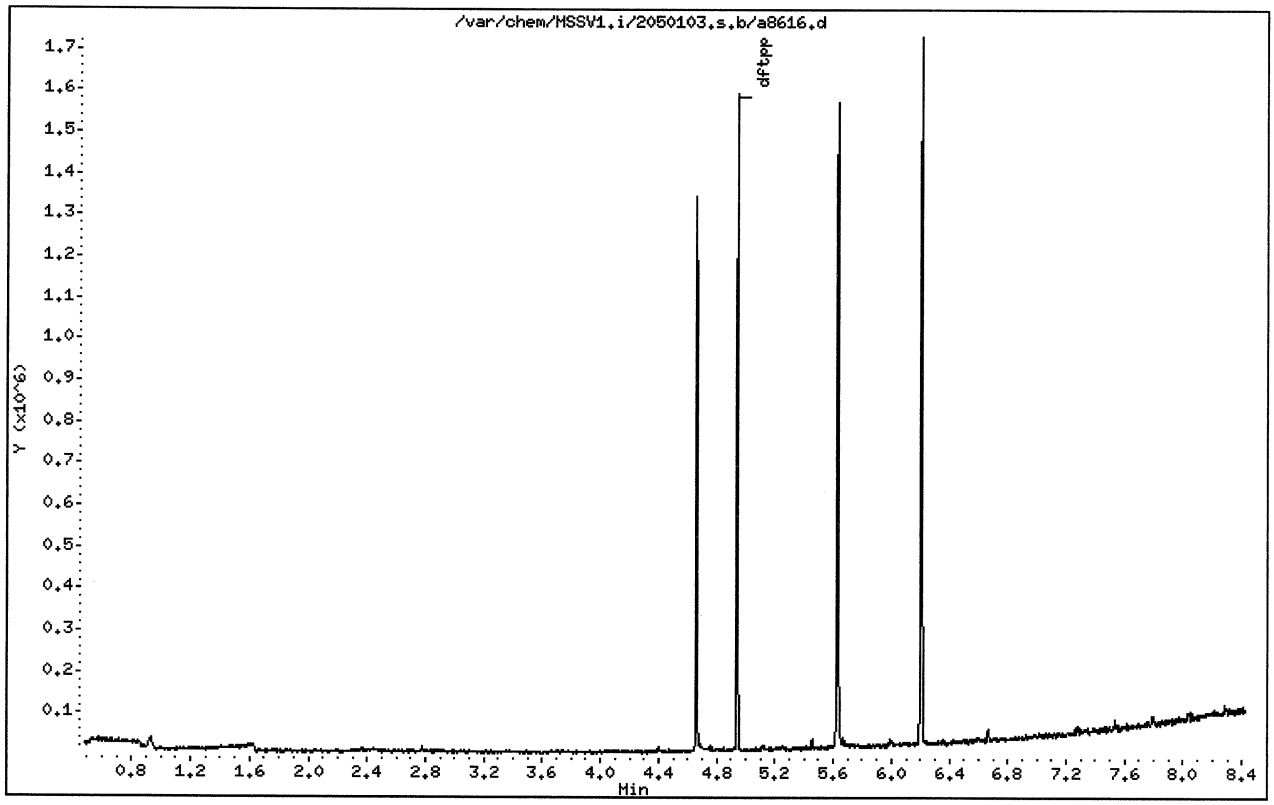
Sample Info: 1100M4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00



Data File: /var/chem/MSSV1.i/2050103.s.b/a8616.d

Date : 03-JAN-2005 09:42

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100*4-16-3

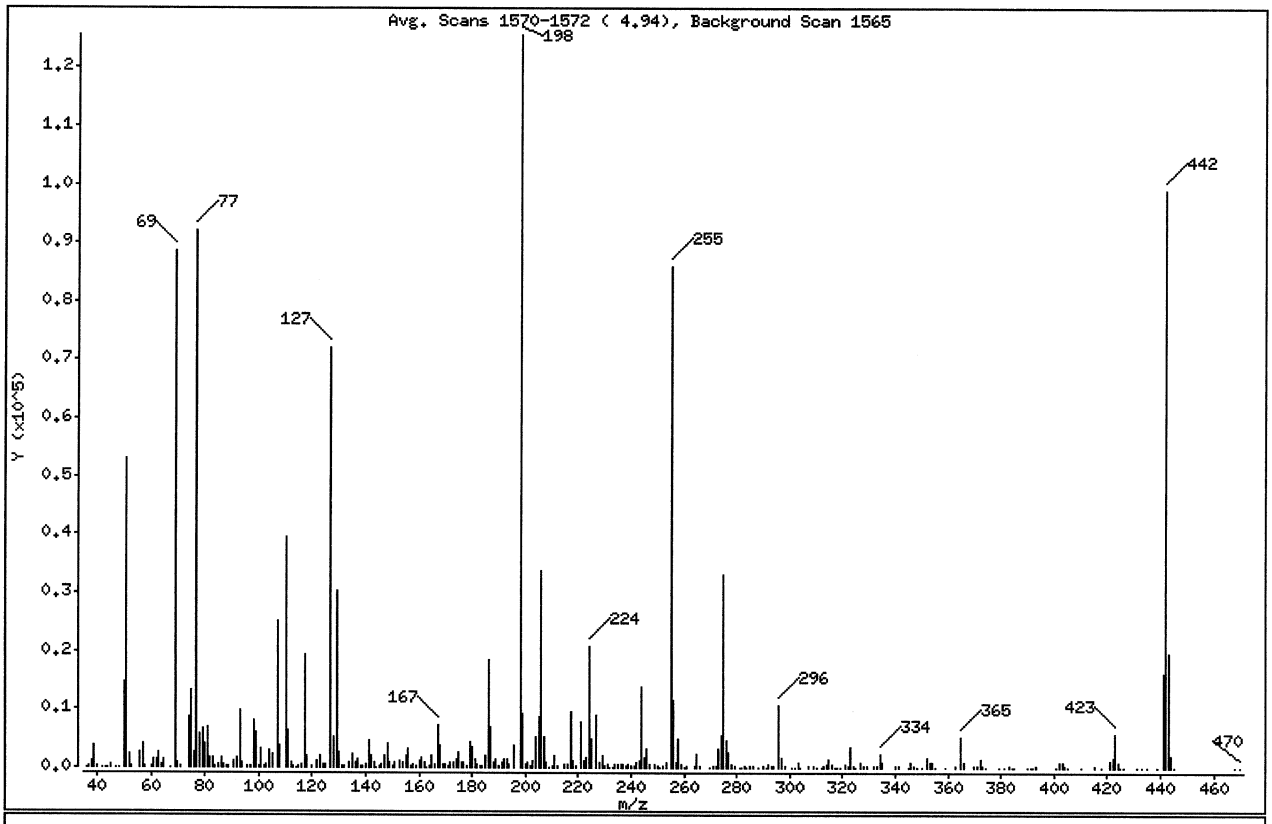
Volume Injected (uL): 1.0

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	42.26
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	70.67
70	Less than 2.00% of mass 69	0.63 (0.89)
127	40.00 - 60.00% of mass 198	57.48
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.37
275	10.00 - 30.00% of mass 198	26.47
365	Greater than 1.00% of mass 198	4.15
441	Present, but less than mass 443	12.91
442	40.00 - 100.00% of mass 198	78.93
443	17.00 - 23.00% of mass 442	15.62 (19.78)

Data File: /var/chem/MSSV1.i/2050103.s.b/a8616.d

Date : 03-JAN-2005 09:42

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100*4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8616.d

Spectrum: Avg. Scans 1570-1572 (4.94), Background Scan 1565

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	60	131.00	292	215.00	504	312.00	109
37.00	281	132.00	231	216.00	457	313.00	214
38.00	1051	134.00	832	217.00	9665	314.00	526
39.00	3859	135.00	2435	218.00	1039	315.00	1312
40.00	352	136.00	965	219.00	349	316.00	488
42.00	137	137.00	1446	221.00	7703	317.00	73
43.00	129	138.00	425	222.00	1059	318.00	85
44.00	86	139.00	257	223.00	1788	319.00	59
45.00	470	140.00	457	224.00	20696	321.00	593
47.00	51	141.00	4520	225.00	5040	322.00	204
48.00	60	142.00	1958	227.00	8980	323.00	3554
50.00	14833	143.00	790	228.00	792	324.00	417
51.00	53056	144.00	101	229.00	1980	325.00	84
52.00	2174	145.00	319	230.00	307	327.00	747
53.00	316	146.00	624	231.00	514	328.00	261
56.00	2464	147.00	2017	232.00	136	329.00	213
57.00	3996	148.00	4117	233.00	115	332.00	150
58.00	402	149.00	758	234.00	462	333.00	351
60.00	166	150.00	313	235.00	612	334.00	2308
61.00	1431	151.00	732	236.00	512	335.00	764
62.00	1587	153.00	1143	237.00	500	340.00	173
63.00	2599	154.00	906	238.00	186	341.00	362
64.00	513	155.00	2109	239.00	436	345.00	88
65.00	1472	156.00	3153	240.00	158	346.00	768
67.00	93	157.00	396	241.00	380	347.00	268
69.00	88720	158.00	670	242.00	977	348.00	59
70.00	794	159.00	204	243.00	1285	350.00	50
71.00	300	160.00	1043	244.00	13814	352.00	1590
74.00	8592	161.00	1669	245.00	1638	353.00	963
75.00	13156	162.00	840	246.00	3041	354.00	870
76.00	2684	163.00	51	247.00	714	355.00	71
77.00	92128	164.00	313	249.00	505	359.00	108
78.00	5882	165.00	1901	250.00	219	363.00	253
79.00	6521	166.00	657	251.00	140	365.00	5213
80.00	4094	167.00	7335	252.00	347	366.00	737

Data File: /var/chem/MSSV1.i/2050103.s.b/a8616.d

Date : 03-JAN-2005 09:42

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100*4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8616.d

Spectrum: Avg. Scans 1570-1572 (4.94), Background Scan 1565

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	6990	168.00	3769	253.00	874	370.00	172
82.00	1683	169.00	596	255.00	85960	371.00	321
83.00	1832	170.00	462	256.00	11415	372.00	1397
84.00	354	171.00	248	257.00	728	373.00	420
85.00	577	172.00	799	258.00	4992	374.00	55
86.00	1773	173.00	969	259.00	561	379.00	78
87.00	699	174.00	1438	260.00	123	381.00	61
88.00	327	175.00	2710	261.00	227	383.00	386
89.00	349	176.00	913	264.00	206	384.00	128
91.00	1207	177.00	1009	265.00	2208	385.00	79
92.00	1793	178.00	413	266.00	169	390.00	136
93.00	9805	179.00	4302	270.00	143	391.00	140
94.00	757	180.00	3483	271.00	390	392.00	93
96.00	163	181.00	1424	272.00	145	393.00	228
97.00	342	182.00	507	273.00	3088	401.00	64
98.00	7964	183.00	216	274.00	5443	402.00	798
99.00	5988	184.00	313	275.00	33224	403.00	932
100.00	379	185.00	2046	276.00	4502	404.00	337
101.00	3133	186.00	18464	277.00	2735	405.00	60
102.00	187	187.00	6804	278.00	503	410.00	109
103.00	628	188.00	799	279.00	184	415.00	190
104.00	2776	189.00	1431	281.00	69	418.00	74
105.00	2228	190.00	269	282.00	108	421.00	1178
107.00	25216	191.00	944	283.00	352	422.00	1615
108.00	3765	192.00	1343	284.00	103	423.00	5861
110.00	39536	193.00	1556	285.00	420	424.00	1002
111.00	6243	194.00	574	286.00	207	425.00	114
112.00	857	196.00	3879	288.00	125	426.00	76
113.00	261	198.00	125544	290.00	173	431.00	82
114.00	69	199.00	9252	291.00	63	433.00	136
115.00	187	200.00	666	292.00	434	435.00	93
116.00	597	201.00	774	293.00	307	439.00	138
117.00	19456	202.00	185	294.00	343	441.00	16214
118.00	1907	203.00	1173	296.00	10540	442.00	99096
120.00	378	204.00	5223	297.00	1835	443.00	19600

Data File: /var/chem/MSSV1.i/2050103.s.b/a8616.d

Date : 03-JAN-2005 09:42

Client ID: DFTPP

Instrument: MSSV1.i

Sample Info: 1100*4-16-3

Volume Injected (uL): 1.0

Operator: jar3

Column phase: RTX-5MS-30M

Column diameter: 2.00

Data File: a8616.d

Spectrum: Avg. Scans 1570-1572 (4.94), Background Scan 1565

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	1213	205.00	8739	298.00	366	444.00	1908
123.00	2041	206.00	33784	301.00	61	445.00	112
124.00	663	207.00	5314	302.00	81	468.00	82
125.00	717	208.00	1007	303.00	1010	470.00	52
127.00	72160	209.00	26	304.00	87		
128.00	5168	210.00	278	307.00	151		
129.00	30184	211.00	2039	309.00	207		
130.00	2587	212.00	277	310.00	66		

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8617.d
Lab Smp Id: 1400 Client Smp ID: STD050
Inj Date : 03-JAN-2005 09:58
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 1400*4-16-5
Misc Info : STD050*MSSV~2461~
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.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	0.556	0.556	(0.277)	59745	50.0000	45.3
1 n-Nitrosodimethylamine	42	0.544	0.544	(0.271)	18935	50.0000	48.4
$ 3 2-Fluorophenol	112	1.152	1.152	(0.574)	246595	50.0000	47.2
$ 4 Phenol-d5	99	1.853	1.853	(0.924)	381473	50.0000	47.9
5 Aniline	93	1.810	1.810	(0.902)	355841	50.0000	57.3
6 Phenol +	94	1.861	1.861	(0.928)	397379	50.0000	48.3
7 bis(-2-Chloroethyl)Ether	63	1.847	1.847	(0.921)	258124	50.0000	49.9
8 2-Chlorophenol	128	1.898	1.898	(0.946)	252053	50.0000	47.5
9 1,3-Dichlorobenzene	146	1.966	1.966	(0.980)	291127	50.0000	46.0
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	145920	40.0000	
11 1,4-Dichlorobenzene +	146	2.015	2.015	(1.004)	299790	50.0000	47.7
12 Benzyl alcohol	108	2.117	2.117	(1.055)	190186	50.0000	47.5
13 1,2-Dichlorobenzene	146	2.111	2.111	(1.052)	284746	50.0000	47.6

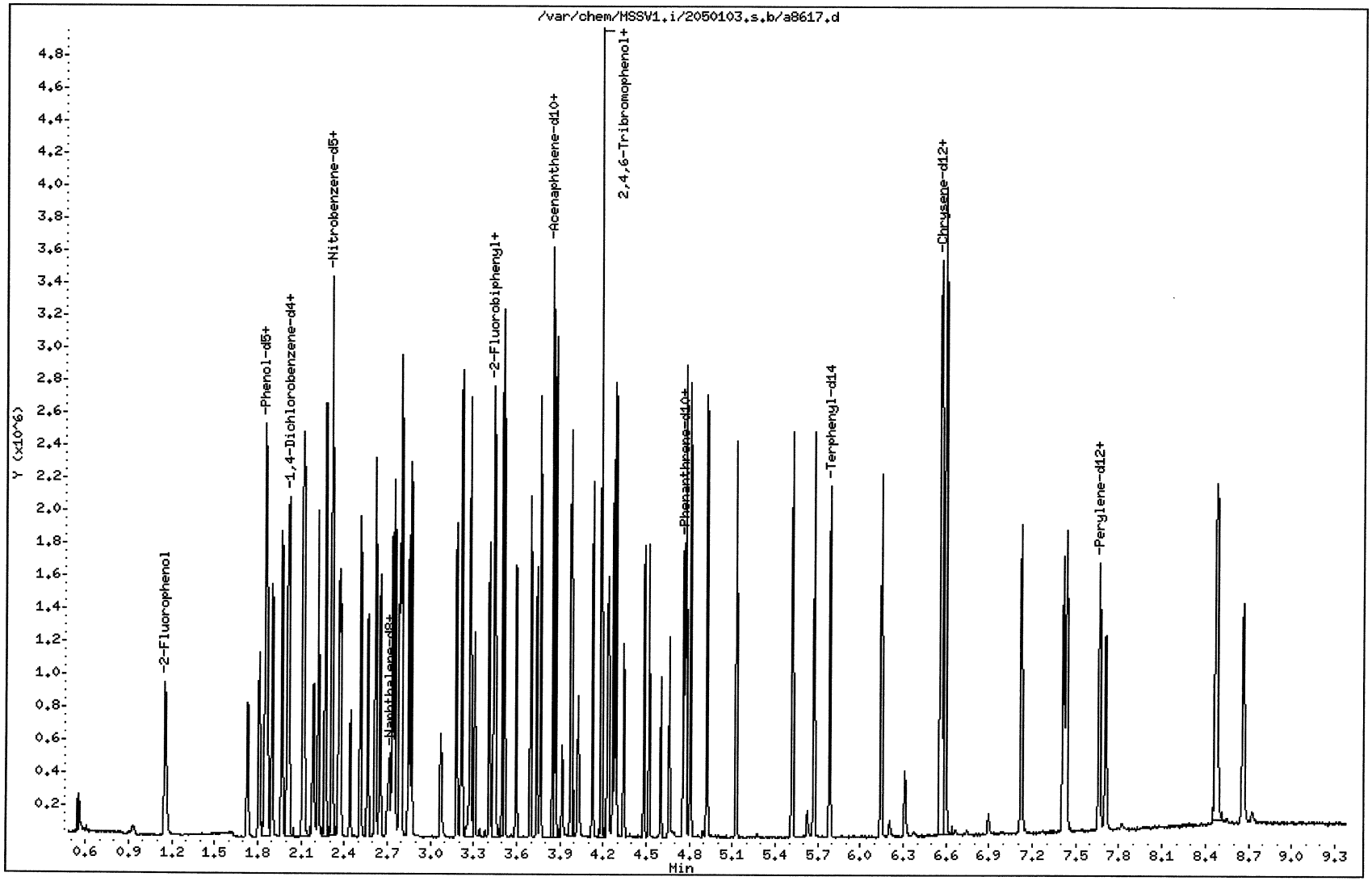
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	15 2-Methylphenol	108	2.219	2.219	(1.106)	246301	50.0000	45.1
	14 Bis(2-chloroisopropyl)ether	45	2.185	2.185	(1.089)	228525	50.0000	46.0
	17 3- & 4-Methylphenol	108	2.315	2.315	(1.154)	263599	50.0000	46.0
	16 N-Nitroso-di-n-propylamine++	70	2.270	2.270	(1.132)	259662	50.0000	46.4
	18 Hexachloroethane	117	2.313	2.313	(1.153)	142766	50.0000	48.1
$	19 Nitrobenzene-d5	82	2.361	2.361	(0.847)	377871	50.0000	49.6
	20 Nitrobenzene	77	2.372	2.372	(0.851)	397409	50.0000	49.5
	21 Isophorone	82	2.514	2.514	(0.902)	616523	50.0000	48.3
	22 2-Nitrophenol +	139	2.565	2.565	(0.921)	127484	50.0000	48.6
	23 2,4-Dimethyphenol	107	2.619	2.619	(0.940)	315025	50.0000	48.7
	24 bis(-2-Chloroethoxy)methane	93	2.650	2.650	(0.951)	338775	50.0000	47.5
	25 Benzoic Acid	122	2.719	2.719	(0.976)	99776	50.0000	36.6
	26 2,4-Dichlorophenol +	162	2.736	2.736	(0.982)	186266	50.0000	48.4
	27 1,2,4-Trichlorobenzene	180	2.753	2.753	(0.988)	221304	50.0000	49.8
*	28 Naphthalene-d8	136	2.787	2.787	(1.000)	503619	40.0000	
	29 Naphthalene	128	2.798	2.798	(1.004)	741880	50.0000	48.8
	30 4-Chloroaniline	127	2.849	2.849	(1.022)	269141	50.0000	56.9
	31 Hexachlorobutadiene +	225	2.866	2.866	(1.029)	149883	50.0000	48.6
	32 4-Chloro-3-Methylphenol +	107	3.181	3.181	(1.142)	234066	50.0000	47.0
	33 2-Methylnaphthalene	142	3.218	3.218	(1.155)	460153	50.0000	48.4
	145 1-Methylnapthalene	142	3.278	3.278	(1.176)	426642	50.0000	47.6
	34 Hexachlorocyclopentadiene ++	237	3.306	3.306	(0.858)	99696	50.0000	50.5
	35 2,4,6-Trichlorophenol +	196	3.408	3.408	(0.885)	124055	50.0000	48.5
	36 2,4,5-Trichlorphenol	196	3.451	3.451	(0.896)	133641	50.0000	50.5
$	37 2-Fluorobiphenyl	172	3.442	3.442	(0.894)	462374	50.0000	48.8
	38 2-Chloronaphthalene	162	3.513	3.513	(0.912)	392980	50.0000	48.2
	39 2-Nitroaniline	138	3.598	3.598	(0.934)	155600	50.0000	48.6
	40 Dimethylphthalate	163	3.698	3.698	(0.960)	423318	50.0000	48.2
	41 2,6-Dinitrotoluene	165	3.740	3.740	(0.971)	95150	50.0000	48.3
	42 Acenaphthylene	152	3.766	3.766	(0.978)	676571	50.0000	56.7
	43 3-Nitroaniline	138	3.851	3.851	(1.000)	121894	50.0000	47.9
*	44 Acenaphthene-d10	164	3.851	3.851	(1.000)	244823	40.0000	
	45 Acenaphthene +	153	3.871	3.871	(1.005)	417566	50.0000	49.8
	46 2,4-Dinitrophenol ++	184	3.916	3.916	(1.017)	40619	50.0000	34.9
	49 4-Nitrophenol ++	109	4.027	4.027	(1.046)	82516	50.0000	44.3
	47 Dibenzofuran	168	3.979	3.979	(1.033)	575674	50.0000	49.2
	48 2,4-Dinitrotoluene	165	3.987	3.987	(1.035)	124310	50.0000	48.6
	50 Diethylphthalate	149	4.126	4.126	(1.071)	447806	50.0000	47.6
	52 4-Chlorophenyl-phenylether	204	4.189	4.189	(1.088)	213409	50.0000	47.0
	51 Fluorene	166	4.186	4.186	(1.087)	484976	50.0000	47.5
	53 4-Nitroaniline	138	4.231	4.231	(1.099)	122997	50.0000	48.4
	54 4,6-Dinitro-o-cresol	198	4.240	4.240	(0.890)	62392	50.0000	39.7
	55 N-nitrosodiphenylamine (1)+	169	4.268	4.268	(0.896)	311836	50.0000	49.5
	56 Azobenzene	77	4.285	4.285	(0.900)	800097	50.0000	49.5
$	57 2,4,6-Tribromophenol	332	4.342	4.342	(1.127)	65254	50.0000	47.0
	58 4-Bromophenyl-phenylether	248	4.487	4.487	(0.942)	106505	50.0000	48.6
	59 Hexachlorobenzene	284	4.521	4.521	(0.949)	131896	50.0000	45.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppm)	AMOUNTS ON-COL (ppm)
	60 Pentachlorophenol +	266	4.663	4.663	(0.979)	70379	50.0000	41.9
*	61 Phenanthrene-d10	188	4.762	4.762	(1.000)	398255	40.0000	
	62 Phenanthrene	178	4.776	4.776	(1.003)	609348	50.0000	48.0
	63 Anthracene	178	4.807	4.807	(1.010)	594997	50.0000	48.6
	64 Carbazole	167	4.921	4.921	(1.033)	652967	50.0000	46.6
	65 Di-n-butylphthalate	149	5.125	5.125	(1.076)	725154	50.0000	48.2
	67 Fluoranthene +	202	5.523	5.523	(1.160)	644064	50.0000	45.3
	68 Benzidine	184	5.628	5.628	(0.856)	42689	50.0000	61.0
	69 Pyrene	202	5.673	5.673	(0.863)	655173	50.0000	56.2
$	70 Terphenyl-d14	244	5.784	5.784	(0.880)	401725	50.0000	54.9
	71 Butylbenzylphthalate	149	6.147	6.147	(0.935)	328304	50.0000	53.1
	73 3,3'-Dichlorobenzidine	252	6.559	6.559	(0.998)	231712	50.0000	43.0
	72 Benzo(a)anthracene	228	6.564	6.564	(0.999)	620742	50.0000	48.8
*	74 Chrysene-d12	240	6.573	6.573	(1.000)	356210	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.596	6.596	(1.003)	425574	50.0000	49.7
	75 Chrysene	228	6.593	6.593	(1.003)	569470	50.0000	47.5
	77 Di-n-octylphthalate +	149	7.121	7.121	(1.083)	749624	50.0000	46.9
	78 Benzo(b)fluoranthene	252	7.416	7.416	(0.962)	574803	50.0000	43.5
	79 Benzo(k)fluoranthene	252	7.439	7.439	(0.965)	632791	50.0000	50.9
	80 Benzo(a)pyrene +	252	7.663	7.663	(0.994)	537129	50.0000	45.0
*	81 Perylene-d12	264	7.708	7.708	(1.000)	326551	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.474	8.474	(1.099)	641244	50.0000	32.7
	83 Dibenzo(a,h)anthracene	278	8.483	8.483	(1.101)	545482	50.0000	33.4
	84 Benzo(g,h,i)perylene	276	8.665	8.665	(1.124)	509414	50.0000	33.3
M	66 Total Methylphenol	108				509900	50.0000	45.6
	91 Acetophenone	105	2.267	2.267	(1.130)	369679	50.0000	46.4
	155 Benzaldehyde	77	1.728	1.728	(0.861)	176499	50.0000	71.2
	156 Caprolactam	113	3.070	3.070	(1.102)	67727	50.0000	48.5
	157 Biphenyl	154	3.502	3.502	(1.257)	539220	50.0000	47.0
	158 Atrazine	200	4.603	4.603	(0.967)	58020	50.0000	84.5

Data File: /var/chem/MSSV1.i/2050103.s.b/a8617.d
Date : 03-JAN-2005 09:58
Client ID: STD050
Sample Info: 1400x4-16-5
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3
Column diameter: 0.25

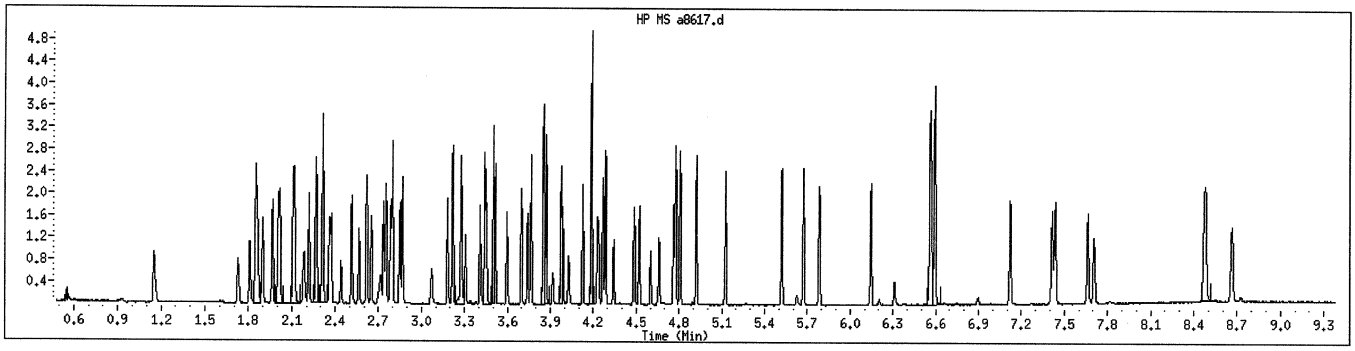


000387

Data file : /var/chem/MSSV1.i/2050103.s.b/a8617.d
Report Date: 01/03/2005 10:29

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1400	SampleType	: CCALIB_2
Injection Date	: 03-JAN-2005 09:58	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 1400*4-16-5		
Misc Info	: STD050*MSSV~2461~		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MB214980

Contract:

Lab File ID: 2050103/A8620

Lab Sample ID: 214980

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1052

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	330	U	9.84	330
88-06-2	2,4,6-Trichlorophenol	330	U	8.81	330
120-83-2	2,4-Dichlorophenol	330	U	7.58	330
105-67-9	2,4-Dimethylphenol	330	U	82.0	330
51-28-5	2,4-Dinitrophenol	1650	U	103	1650
121-14-2	2,4-Dinitrotoluene	330	U	5.10	330
606-20-2	2,6-Dinitrotoluene	330	U	17.4	330
91-58-7	2-Chloronaphthalene	330	U	6.43	330
95-57-8	2-Chlorophenol	330	U	56.2	330
91-57-6	2-Methylnaphthalene	330	U	11.7	330
88-74-4	2-Nitroaniline	1650	U	8.25	1650
88-75-5	2-Nitrophenol	330	U	6.36	330
91-94-1	3,3'-Dichlorobenzidine	660	U	18.5	660
99-09-2	3-Nitroaniline	1650	U	4.43	1650
534-52-1	2-Methyl-4,6-dinitrophenol	1650	U	32.9	1650
101-55-3	4-Bromophenyl-phenylether	330	U	6.80	330
59-50-7	4-Chloro-3-methylphenol	330	U	8.61	330
106-47-8	4-Chloroaniline	330	U	19.5	330
7005-72-3	4-Chlorophenyl-phenylether	330	U	11.7	330
100-01-6	4-Nitroaniline	1650	U	4.88	1650
100-02-7	4-Nitrophenol	1650	U	4.91	1650
83-32-9	Acenaphthene	330	U	4.20	330
208-96-8	Acenaphthylene	330	U	4.36	330
98-86-2	Acetophenone	330	U	14.1	330
120-12-7	Anthracene	330	U	4.43	330
1912-24-9	Atrazine (Aatrex)	660	U	11.3	660
100-52-7	Benzaldehyde	660	U	12.2	660
56-55-3	Benzo(a)anthracene	330	U	3.45	330
50-32-8	Benzo(a)pyrene	330	U	3.01	330

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MB214980

Contract:

Lab File ID: 2050103/A8620

Lab Sample ID: 214980

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1052

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	330	U	8.97	330
191-24-2	Benzo(g,h,i)perylene	330	U	5.95	330
207-08-9	Benzo(k)fluoranthene	330	U	7.34	330
92-52-4	Biphenyl	330	U	5.40	330
111-91-1	Bis(2-Chloroethoxy)methane	330	U	8.72	330
111-44-4	Bis(2-Chloroethyl)ether	330	U	58.2	330
108-60-1	bis(2-Chloroisopropyl)ether	330	U	64.9	330
117-81-7	bis(2-ethylhexyl)phthalate	330	U	7.40	330
85-68-7	Butylbenzylphthalate	330	U	6.77	330
105-60-2	Caprolactam	330	U	6.60	330
86-74-8	Carbazole	330	U	4.72	330
218-01-9	Chrysene	330	U	4.71	330
84-74-2	Di-n-butylphthalate	19.4	J	8.54	330
117-84-0	Di-n-octylphthalate	330	U	14.6	330
53-70-3	Dibenz(a,h)anthracene	330	U	5.95	330
132-64-9	Dibenzofuran	330	U	3.82	330
84-66-2	Diethylphthalate	330	U	6.85	330
131-11-3	Dimethyl-phthalate	330	U	9.68	330
206-44-0	Fluoranthene	330	U	4.86	330
86-73-7	Fluorene	330	U	4.00	330
118-74-1	Hexachlorobenzene	330	U	6.95	330
87-68-3	Hexachlorobutadiene	330	U	61.5	330
77-47-4	Hexachlorocyclopentadiene	330	U	42.3	330
67-72-1	Hexachloroethane	330	U	104	330
193-39-5	Indeno(1,2,3-cd)pyrene	330	U	39.5	330
78-59-1	Isophorone	330	U	5.36	330
91-20-3	Naphthalene	330	U	6.60	330
98-95-3	Nitrobenzene	330	U	54.4	330
87-86-5	Pentachlorophenol	1650	U	62.0	1650

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: MB214980

Contract:

Lab File ID: 2050103/A8620

Lab Sample ID: 214980

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1052

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	330	U	1.50	330
108-95-2	Phenol	330	U	8.56	330
129-00-0	Pyrene	330	U	5.04	330
1319-77-3M	m,p-Cresol	330	U	13.9	330
621-64-7	N-Nitroso-di-n-propylamine	330	U	7.64	330
86-30-6	N-Nitrosodiphenylamine	330	U	14.2	330
95-48-7	o-Cresol	330	U	96.7	330

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8620.d
Lab Smp Id: 214980 Client Smp ID: 1228SBLK
Inj Date : 03-JAN-2005 10:52
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 214980*BLK
Misc Info : 1228SBLK*MSSV~2461~*BLK*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 3.50

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

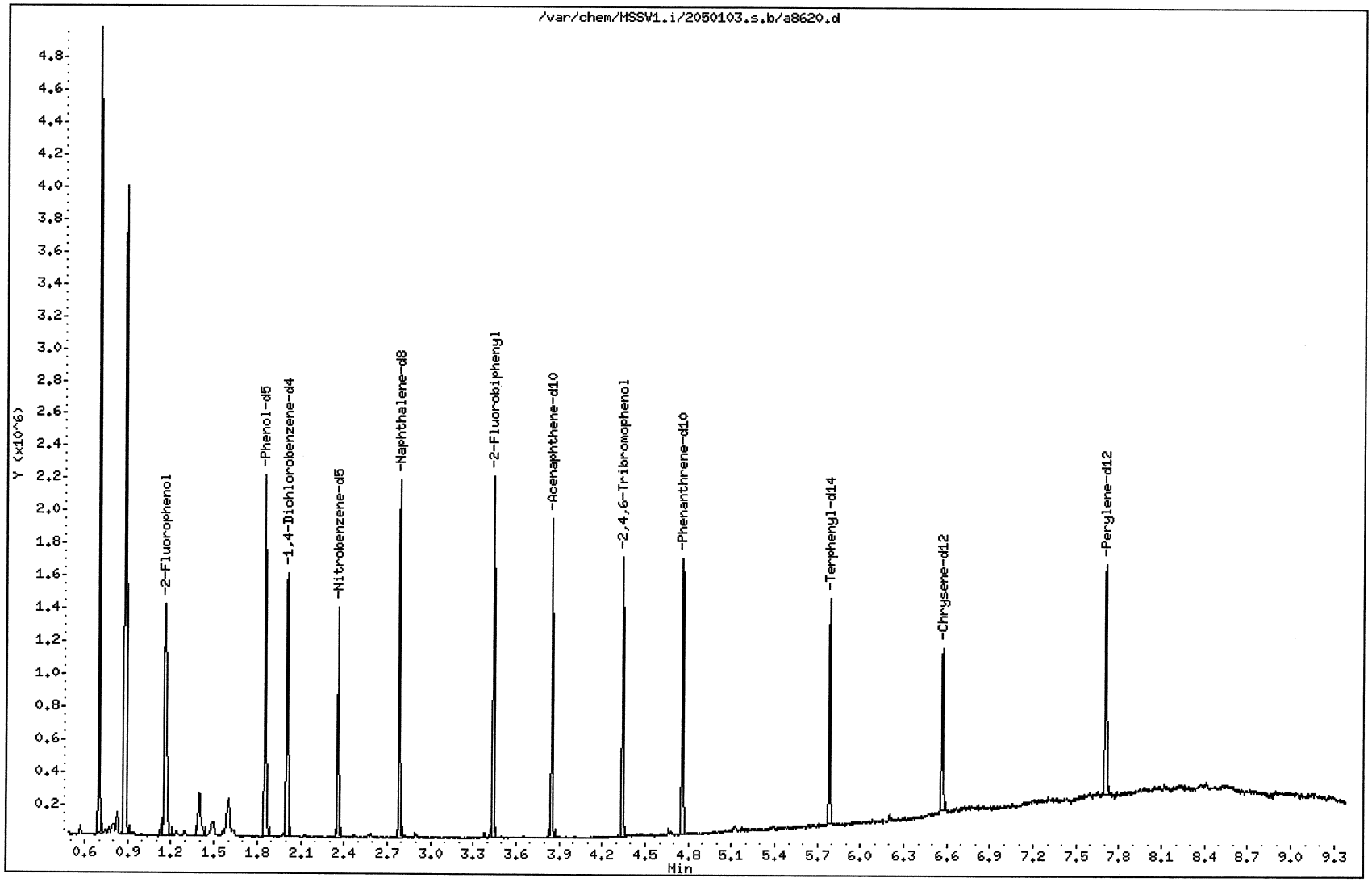
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	1.158	1.152	(0.577)	348652	58.4990	1950
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	576514	63.4483	2110
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	166467	40.0000	
$ 19 Nitrobenzene-d5	82	2.358	2.361	(0.847)	347283	39.4309	1310
* 28 Naphthalene-d8	136	2.784	2.787	(1.000)	581760	40.0000	
$ 37 2-Fluorobiphenyl	172	3.442	3.442	(0.895)	391899	41.6688	1390
* 44 Acenaphthene-d10	164	3.848	3.851	(1.000)	243018	40.0000	
$ 57 2,4,6-Tribromophenol	332	4.342	4.342	(1.128)	98152	71.1903	2370
* 61 Phenanthrene-d10	188	4.759	4.762	(1.000)	350892	40.0000	
65 Di-n-butylphthalate	149	5.126	5.125	(1.077)	7709	0.58188	19.4
$ 70 Terphenyl-d14	244	5.784	5.784	(0.880)	246805	48.7175	1620
* 74 Chrysene-d12	240	6.570	6.573	(1.000)	246827	40.0000	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
* 81 Perylene-d12	264	7.708	7.708	(1.000)	384085	40.0000	

Data File: /var/chem/MSSV1.i/2050103.s.b/a8620.d
Date : 03-JAN-2005 10:52
Client ID: 1228SBLK
Sample Info: 214980*BLK
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i
Operator: jar3
Column diameter: 0.25



Data File: /var/chem/MSSV1.i/2050103.s.b/a8620.d

Date : 03-JAN-2005 10:52

Client ID: 1228SBLK

Instrument: MSSV1.i

Sample Info: 214980*BLK

Volume Injected (uL): 1.0

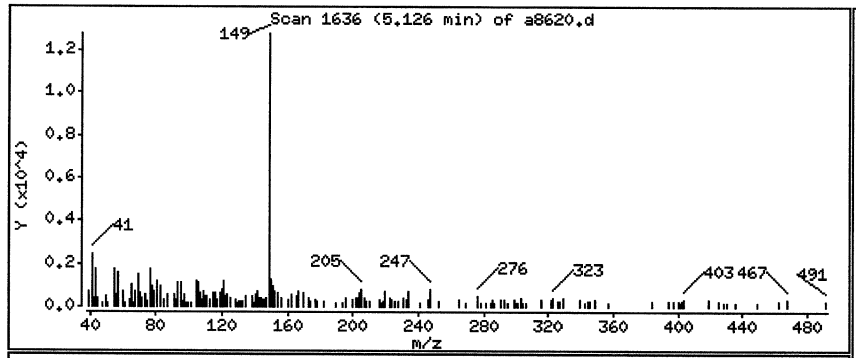
Operator: jar3

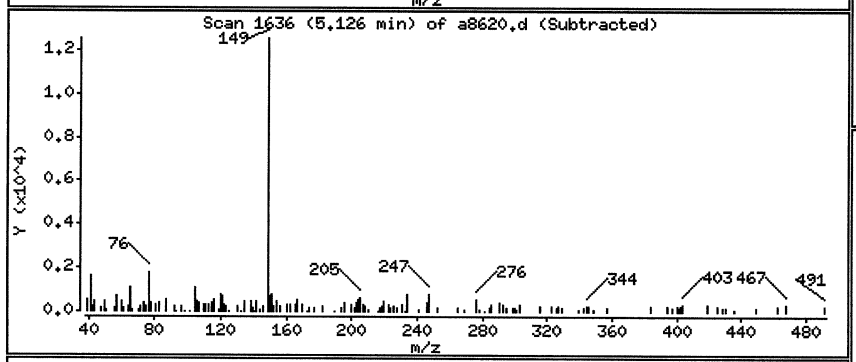
Column phase: RTX-5MS-30M

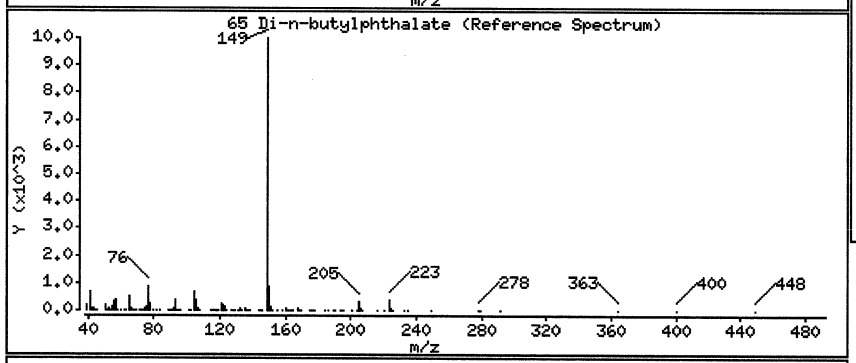
Column diameter: 0.25

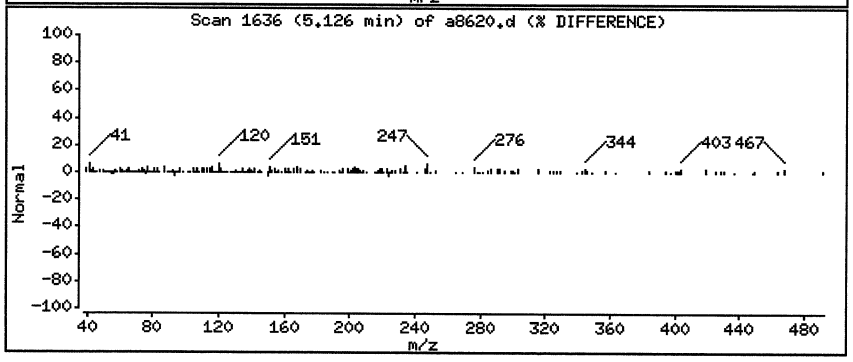
65 Di-n-butylphthalate

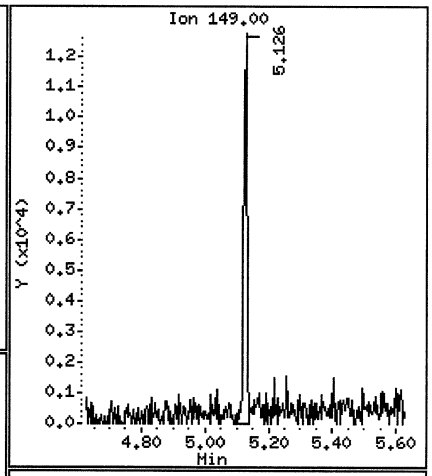
Concentration: 19.4 ug/Kg

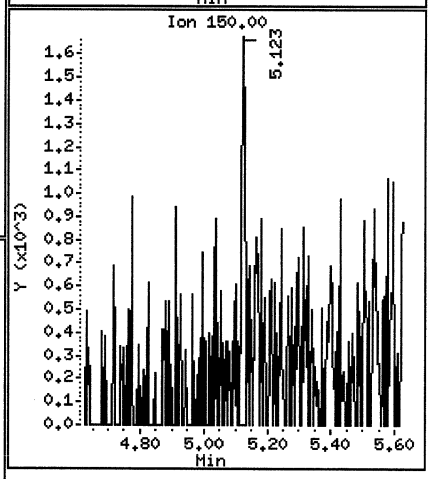








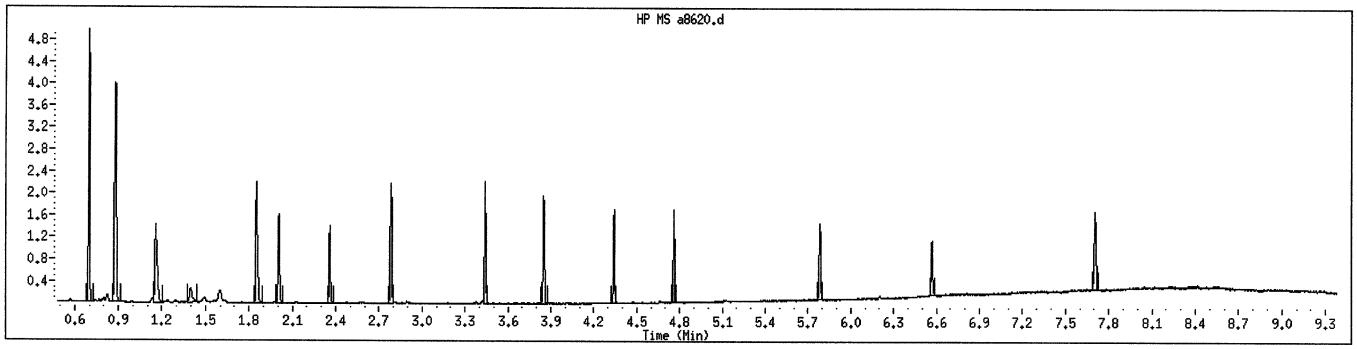




Data file : /var/chem/MSSV1.i/2050103.s.b/a8620.d
Report Date: 01/03/2005 11:02

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 214980	SampleType	: BLANK
Injection Date	: 03-JAN-2005 10:52	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 214980*BLK		
Misc Info	: 1228SBLK*MSSV~2461~*BLK*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



NO MANUAL INTEGRATIONS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCS214981

Contract:

Lab File ID: 2050103/A8622

Lab Sample ID: 214981

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1126

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	3020		9.84	330
88-06-2	2,4,6-Trichlorophenol	2840		8.81	330
120-83-2	2,4-Dichlorophenol	2580		7.58	330
105-67-9	2,4-Dimethylphenol	2550		82.0	330
51-28-5	2,4-Dinitrophenol	1160	J	103	1650
121-14-2	2,4-Dinitrotoluene	2630		5.10	330
606-20-2	2,6-Dinitrotoluene	2720		17.4	330
91-58-7	2-Chloronaphthalene	2860		6.43	330
95-57-8	2-Chlorophenol	2580		56.2	330
91-57-6	2-Methylnaphthalene	2590		11.7	330
88-74-4	2-Nitroaniline	2450		8.25	1650
88-75-5	2-Nitrophenol	2680		6.36	330
91-94-1	3,3'-Dichlorobenzidine	1890		18.5	660
99-09-2	3-Nitroaniline	1590	J	4.43	1650
534-52-1	2-Methyl-4,6-dinitrophenol	1930		32.9	1650
101-55-3	4-Bromophenyl-phenylether	2990		6.80	330
59-50-7	4-Chloro-3-methylphenol	2620		8.61	330
106-47-8	4-Chloroaniline	1220		19.5	330
7005-72-3	4-Chlorophenyl-phenylether	2810		11.7	330
100-01-6	4-Nitroaniline	1950		4.88	1650
100-02-7	4-Nitrophenol	2600		4.91	1650
83-32-9	Acenaphthene	2810		4.20	330
208-96-8	Acenaphthylene	3300		4.36	330
98-86-2	Acetophenone	2630		14.1	330
120-12-7	Anthracene	2980		4.43	330
1912-24-9	Atrazine (Aatrex)	9510	E	11.3	660
100-52-7	Benzaldehyde	1070		12.2	660
56-55-3	Benzo(a)anthracene	2850		3.45	330
50-32-8	Benzo(a)pyrene	2830		3.01	330

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCS214981

Contract:

Lab File ID: 2050103/A8622

Lab Sample ID: 214981

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1126

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	2410		8.97	330
191-24-2	Benzo(g,h,i)perylene	2210		5.95	330
207-08-9	Benzo(k)fluoranthene	2580		7.34	330
92-52-4	Biphenyl	2520		5.40	330
111-91-1	Bis(2-Chloroethoxy)methane	2640		8.72	330
111-44-4	Bis(2-Chloroethyl)ether	2750		58.2	330
108-60-1	bis(2-Chloroisopropyl)ether	2570		64.9	330
117-81-7	bis(2-ethylhexyl)phthalate	2990		7.40	330
85-68-7	Butylbenzylphthalate	2930		6.77	330
105-60-2	Caprolactam	2670		6.60	330
86-74-8	Carbazole	2410		4.72	330
218-01-9	Chrysene	2880		4.71	330
84-74-2	Di-n-butylphthalate	2940		8.54	330
117-84-0	Di-n-octylphthalate	2820		14.6	330
53-70-3	Dibenz(a,h)anthracene	2610		5.95	330
132-64-9	Dibenzofuran	2750		3.82	330
84-66-2	Diethylphthalate	2860		6.85	330
131-11-3	Dimethyl-phthalate	2880		9.68	330
206-44-0	Fluoranthene	2640		4.86	330
86-73-7	Fluorene	2790		4.00	330
118-74-1	Hexachlorobenzene	2820		6.95	330
87-68-3	Hexachlorobutadiene	2940		61.5	330
77-47-4	Hexachlorocyclopentadiene	2870		42.3	330
67-72-1	Hexachloroethane	2740		104	330
193-39-5	Indeno(1,2,3-cd)pyrene	2370		39.5	330
78-59-1	Isophorone	2860		5.36	330
91-20-3	Naphthalene	2750		6.60	330
98-95-3	Nitrobenzene	2760		54.4	330
87-86-5	Pentachlorophenol	2550		62.0	1650

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCS214981

Contract:

Lab File ID: 2050103/A8622

Lab Sample ID: 214981

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1126

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	2890		1.50	330
108-95-2	Phenol	2520		8.56	330
129-00-0	Pyrene	3060		5.04	330
1319-77-3M	m,p-Cresol	2460		13.9	330
621-64-7	N-Nitroso-di-n-propylamine	2660		7.64	330
86-30-6	N-Nitrosodiphenylamine	2980		14.2	330
95-48-7	o-Cresol	2530		96.7	330

FORM I SV-1

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8622.d
Lab Smp Id: 214981 Client Smp ID: 1228LCS
Inj Date : 03-JAN-2005 11:26
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 214981*LCS
Misc Info : 1228LCS*MSSV~2461~*LCS*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 6 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/(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	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
2 Pyridine	79	0.562	0.556	(0.280)	111153	79.8145	2660
1 n-Nitrosodimethylamine	42	0.553	0.544	(0.276)	39782	96.2721	3210
$ 3 2-Fluorophenol	112	1.158	1.152	(0.577)	364543	66.0350	2200
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	611324	72.6358	2420
5 Aniline	93	1.811	1.810	(0.902)	355532	54.2213	1810
6 Phenol +	94	1.859	1.861	(0.926)	656560	75.5180	2520
7 bis(-2-Chloroethyl)Ether	63	1.850	1.847	(0.922)	451450	82.6490	2750
8 2-Chlorophenol	128	1.899	1.898	(0.946)	433123	77.2848	2580
9 1,3-Dichlorobenzene	146	1.970	1.966	(0.982)	537984	80.4546	2680
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	154191	40.0000	
11 1,4-Dichlorobenzene +	146	2.018	2.015	(1.006)	537944	80.9404	2700

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	12 Benzyl alcohol	108	2.120	2.117	(1.057)	328564	77.6278	2590
	13 1,2-Dichlorobenzene	146	2.111	2.111	(1.052)	514287	81.3484	2710
	15 2-Methylphenol	108	2.219	2.219	(1.106)	438726	76.0478	2530
	14 Bis(2-chloroisopropyl)ether	45	2.182	2.185	(1.088)	405111	77.1764	2570
	17 3- & 4-Methylphenol	108	2.316	2.315	(1.154)	447496	73.8724	2460
	16 N-Nitroso-di-n-propylamine++	70	2.273	2.270	(1.133)	471910	79.7991	2660
	18 Hexachloroethane	117	2.313	2.313	(1.153)	257131	82.0686	2740
$	19 Nitrobenzene-d5	82	2.361	2.361	(0.847)	329718	41.4157	1380(M)
	20 Nitrobenzene	77	2.373	2.372	(0.851)	692837	82.6563	2760
	21 Isophorone	82	2.515	2.514	(0.902)	1140939	85.6565	2860
	22 2-Nitrophenol +	139	2.566	2.565	(0.921)	220504	80.5357	2680
	23 2,4-Dimethyphenol	107	2.620	2.619	(0.940)	517221	76.5006	2550
	24 bis(-2-Chloroethoxy)methane	93	2.651	2.650	(0.951)	589759	79.1996	2640
	25 Benzoic Acid	122	2.725	2.719	(0.978)	136231	47.8774	1600
	26 2,4-Dichlorophenol +	162	2.733	2.736	(0.981)	311371	77.4270	2580
	27 1,2,4-Trichlorobenzene	180	2.753	2.753	(0.988)	385190	82.9546	2770
*	28 Naphthalene-d8	136	2.787	2.787	(1.000)	525865	40.0000	
	29 Naphthalene	128	2.798	2.798	(1.004)	1311123	82.5298	2750
	30 4-Chloroaniline	127	2.849	2.849	(1.022)	180794	36.6273	1220
	31 Hexachlorobutadiene +	225	2.866	2.866	(1.028)	283437	88.0615	2940
	32 4-Chloro-3-Methylphenol +	107	3.182	3.181	(1.142)	408781	78.5362	2620
	33 2-Methylnaphthalene	142	3.218	3.218	(1.155)	770002	77.6335	2590
	145 1-Methylnapthalene	142	3.278	3.278	(1.176)	699405	74.7687	2490
	34 Hexachlorocyclopentadiene ++	237	3.306	3.306	(0.858)	163981	85.9703	2870
	35 2,4,6-Trichlorophenol +	196	3.411	3.408	(0.886)	210527	85.3083	2840
	36 2,4,5-Trichlorphenol	196	3.451	3.451	(0.896)	231523	90.6335	3020
$	37 2-Fluorobiphenyl	172	3.443	3.442	(0.894)	391713	42.8302	1430
	38 2-Chloronaphthalene	162	3.516	3.513	(0.913)	674361	85.7477	2860
	39 2-Nitroaniline	138	3.599	3.598	(0.934)	226696	73.3539	2450
	40 Dimethylphthalate	163	3.701	3.698	(0.961)	731954	86.3664	2880
	41 2,6-Dinitrotoluene	165	3.744	3.740	(0.972)	155197	81.5947	2720
	42 Acenaphthylene	152	3.766	3.766	(0.978)	1140145	98.9872	3300
	43 3-Nitroaniline	138	3.851	3.851	(1.000)	117138	47.6679	1590
*	44 Acenaphthene-d10	164	3.851	3.851	(1.000)	236316	40.0000	
	45 Acenaphthene +	153	3.871	3.871	(1.005)	682668	84.3366	2810
	46 2,4-Dinitrophenol ++	184	3.919	3.916	(1.018)	39210	34.9281	1160
	49 4-Nitrophenol ++	109	4.024	4.027	(1.045)	140370	78.0004	2600
	47 Dibenzofuran	168	3.979	3.979	(1.033)	932410	82.5040	2750
	48 2,4-Dinitrotoluene	165	3.990	3.987	(1.036)	194487	78.7911	2630
	50 Diethylphthalate	149	4.130	4.126	(1.072)	780542	85.8773	2860
	52 4-Chlorophenyl-phenylether	204	4.189	4.189	(1.088)	369114	84.2105	2810
	51 Fluorene	166	4.189	4.186	(1.088)	826400	83.7828	2790
	53 4-Nitroaniline	138	4.235	4.231	(1.099)	143043	58.3553	1950
	54 4,6-Dinitro-o-cresol	198	4.240	4.240	(0.890)	82169	57.9486	1930
	55 N-nitrosodiphenylamine (1)+	169	4.269	4.268	(0.896)	509117	89.3837	2980
	56 Azobenzene	77	4.288	4.285	(0.900)	1143506	78.2585	2610
$	57 2,4,6-Tribromophenol	332	4.345	4.342	(1.128)	102227	76.2487	2540

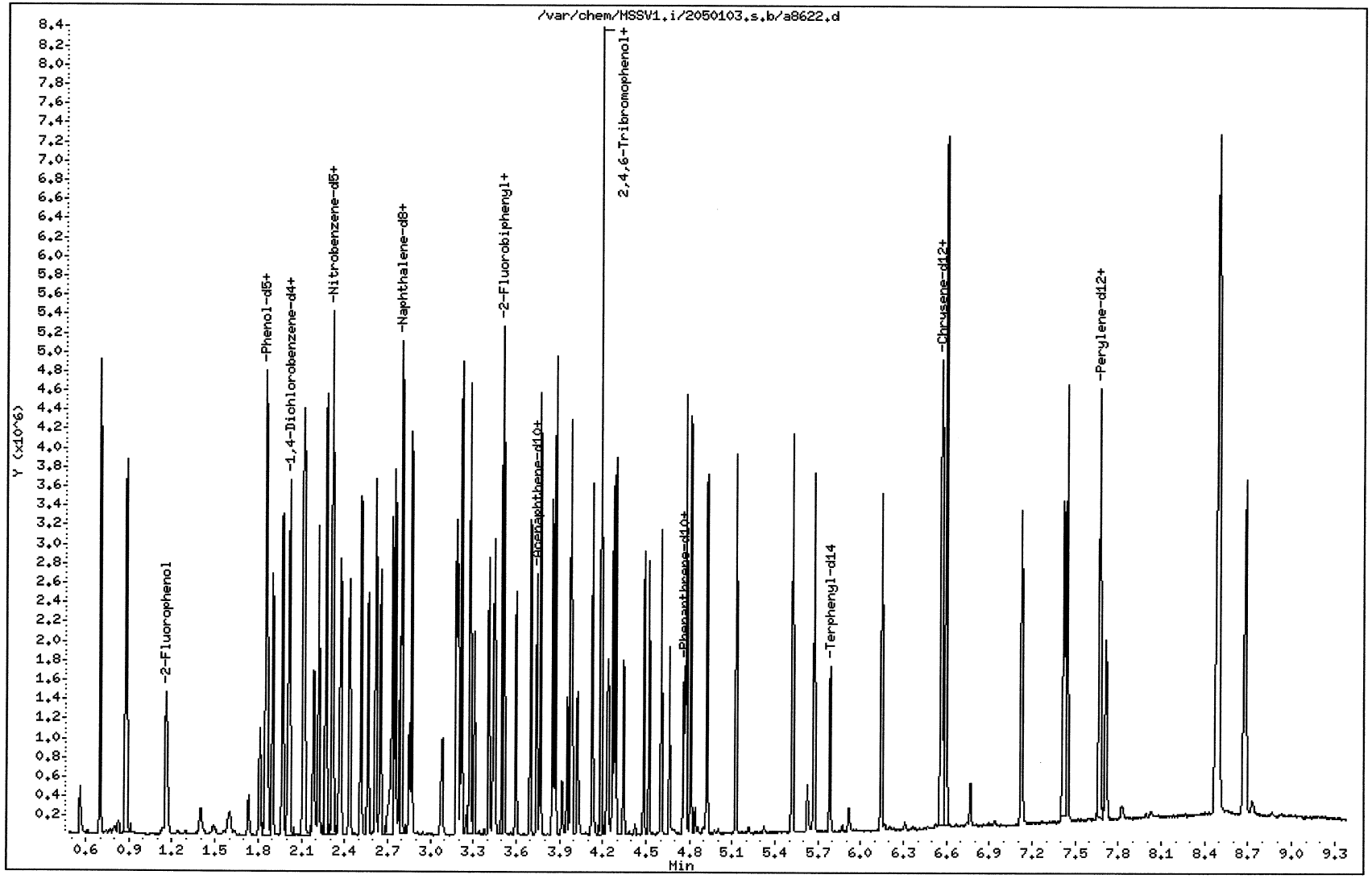
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	58 4-Bromophenyl-phenylether	248	4.487	4.487	(0.942)	177420	89.6603	2990
	59 Hexachlorobenzene	284	4.521	4.521	(0.949)	220002	84.5649	2820
	60 Pentachlorophenol +	266	4.663	4.663	(0.979)	116171	76.5860	2550
*	61 Phenanthrene-d10	188	4.762	4.762	(1.000)	359720	40.0000	
	62 Phenanthrene	178	4.777	4.776	(1.003)	991715	86.5773	2890
	63 Anthracene	178	4.811	4.807	(1.010)	987485	89.3072	2980
	64 Carbazole	167	4.924	4.921	(1.034)	915762	72.3179	2410
	65 Di-n-butylphthalate	149	5.126	5.125	(1.076)	1198139	88.2175	2940
	67 Fluoranthene +	202	5.523	5.523	(1.160)	1017770	79.3339	2640
	68 Benzidine	184	5.628	5.628	(0.856)	125019	189.544	6320(R)
	69 Pyrene	202	5.676	5.673	(0.863)	1009714	91.7890	3060
$	70 Terphenyl-d14	244	5.784	5.784	(0.880)	300551	43.6040	1450
	71 Butylbenzylphthalate	149	6.147	6.147	(0.935)	512069	87.8210	2930
	73 3,3'-Dichlorobenzidine	252	6.562	6.559	(0.998)	288712	56.8210	1890
	72 Benzo(a)anthracene	228	6.568	6.564	(0.999)	1025960	85.4647	2850
*	74 Chrysene-d12	240	6.576	6.573	(1.000)	335827	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.599	6.596	(1.003)	723744	89.7333	2990
	75 Chrysene	228	6.599	6.593	(1.003)	976010	86.2711	2880
	77 Di-n-octylphthalate +	149	7.124	7.121	(1.083)	1275111	84.6866	2820
	78 Benzo(b)fluoranthene	252	7.422	7.416	(0.962)	1444654	72.2620	2410
	79 Benzo(k)fluoranthene	252	7.445	7.439	(0.965)	1457330	77.4421	2580
	80 Benzo(a)pyrene +	252	7.674	7.663	(0.995)	1534486	84.8712	2830
*	81 Perylene-d12	264	7.714	7.708	(1.000)	494397	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.489	8.474	(1.100)	2103864	70.9510	2370
	83 Dibenzo(a,h)anthracene	278	8.500	8.483	(1.102)	1934958	78.2724	2610
	84 Benzo(g,h,i)perylene	276	8.685	8.665	(1.126)	1537140	66.3921	2210
M	66 Total Methylphenol	108				886222	74.9335	2500
	91 Acetophenone	105	2.268	2.267	(1.130)	662811	78.8117	2630
	155 Benzaldehyde	77	1.731	1.728	(0.863)	83992	32.0584	1070
	156 Caprolactam	113	3.085	3.070	(1.107)	116932	80.2316	2670
	157 Biphenyl	154	3.505	3.502	(1.258)	904972	75.4874	2520
	158 Atrazine	200	4.606	4.603	(0.967)	176889	285.379	9510(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2050103.s.b/a8622.d
Date : 03-JAN-2005 11:26
Client ID: 1228LCS
Sample Info: 214981*LCS
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i
Operator: jar3
Column diameter: 0.25

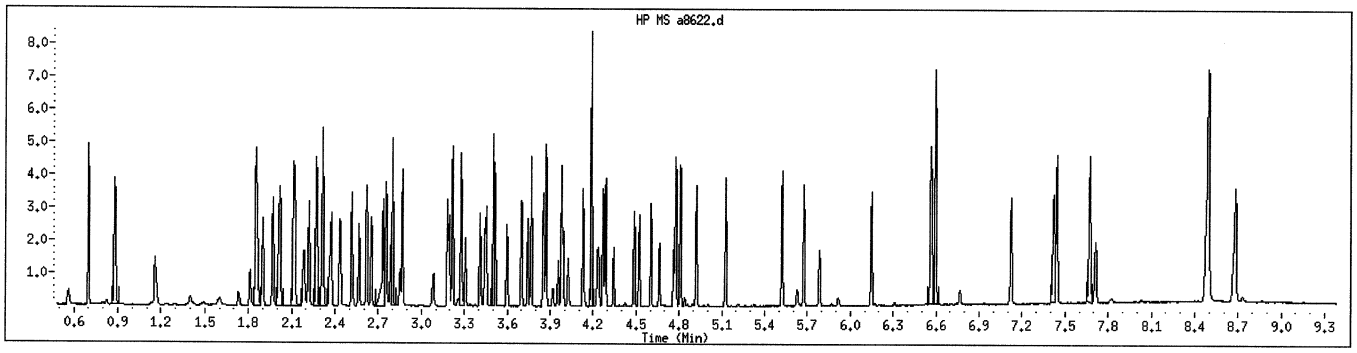


000403

Data file : /var/chem/MSSV1.i/2050103.s.b/a8622.d
Report Date: 01/03/2005 11:20

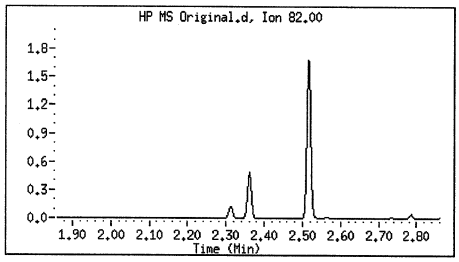
MANUAL INTEGRATION GRAPHIC REPORT

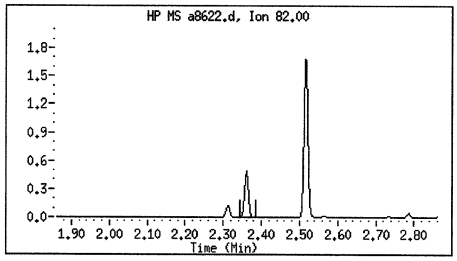
Lab ID	: 214981	SampleType	: LCS
Injection Date	: 03-JAN-2005 11:26	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 214981*LCS		
Misc Info	: 1228LCS*MSSV~2461~*LCS*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original Final

$ 19 Nitrobenzene-d5 CAS#: 4165-60-0





Data File: /var/chem/MSSV1.i/2050103.s.b/a8622.d
Report Date: 03-Jan-2005 11:20

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: MSSV1.i
Lab File ID: a8622.d
Lab Smp Id: 214981
Analysis Type: SV
Quant Type: ISTD
Operator: jar3
Method File: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Misc Info: 1228LCS*MSSV~2461~*LCS*30.0-1.0

Calibration Date: 03-JAN-2005
Calibration Time: 09:58
Client Smp ID: 1228LCS
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	145920	72960	291840	154191	5.67
28 Naphthalene-d8	503619	251810	1007238	525865	4.42
44 Acenaphthene-d10	244823	122412	489646	236316	-3.47
61 Phenanthrene-d10	398255	199128	796510	359720	-9.68
74 Chrysene-d12	356210	178105	712420	335827	-5.72
81 Perylene-d12	326551	163276	653102	494397	51.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	2.01	1.51	2.51	2.01	0.02
28 Naphthalene-d8	2.79	2.29	3.29	2.79	0.01
44 Acenaphthene-d10	3.85	3.35	4.35	3.85	0.01
61 Phenanthrene-d10	4.76	4.26	5.26	4.76	0.01
74 Chrysene-d12	6.57	6.07	7.07	6.58	0.05
81 Perylene-d12	7.71	7.21	8.21	7.71	0.08

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.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCSD214982

Contract:

Lab File ID: 2050103/A8623

Lab Sample ID: 214982

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1144

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	2640		9.84	330
88-06-2	2,4,6-Trichlorophenol	2610		8.81	330
120-83-2	2,4-Dichlorophenol	2580		7.58	330
105-67-9	2,4-Dimethylphenol	2480		82.0	330
51-28-5	2,4-Dinitrophenol	1150	J	103	1650
121-14-2	2,4-Dinitrotoluene	2480		5.10	330
606-20-2	2,6-Dinitrotoluene	2520		17.4	330
91-58-7	2-Chloronaphthalene	2560		6.43	330
95-57-8	2-Chlorophenol	2420		56.2	330
91-57-6	2-Methylnaphthalene	2520		11.7	330
88-74-4	2-Nitroaniline	2260		8.25	1650
88-75-5	2-Nitrophenol	2650		6.36	330
91-94-1	3,3'-Dichlorobenzidine	1940		18.5	660
99-09-2	3-Nitroaniline	1590	J	4.43	1650
534-52-1	2-Methyl-4,6-dinitrophenol	1860		32.9	1650
101-55-3	4-Bromophenyl-phenylether	2760		6.80	330
59-50-7	4-Chloro-3-methylphenol	2560		8.61	330
106-47-8	4-Chloroaniline	1440		19.5	330
7005-72-3	4-Chlorophenyl-phenylether	2570		11.7	330
100-01-6	4-Nitroaniline	1940		4.88	1650
100-02-7	4-Nitrophenol	2520		4.91	1650
83-32-9	Acenaphthene	2620		4.20	330
208-96-8	Acenaphthylene	3060		4.36	330
98-86-2	Acetophenone	2410		14.1	330
120-12-7	Anthracene	2840		4.43	330
1912-24-9	Atrazine (Aatrex)	9020	E	11.3	660
100-52-7	Benzaldehyde	1190		12.2	660
56-55-3	Benzo(a)anthracene	2730		3.45	330
50-32-8	Benzo(a)pyrene	2770		3.01	330

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCSD214982

Contract:

Lab File ID: 2050103/A8623

Lab Sample ID: 214982

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1144

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	2400		8.97	330
191-24-2	Benzo(g,h,i)perylene	2110		5.95	330
207-08-9	Benzo(k)fluoranthene	2490		7.34	330
92-52-4	Biphenyl	2480		5.40	330
111-91-1	Bis(2-Chloroethoxy)methane	2580		8.72	330
111-44-4	Bis(2-Chloroethyl)ether	2640		58.2	330
108-60-1	bis(2-Chloroisopropyl)ether	2460		64.9	330
117-81-7	bis(2-ethylhexyl)phthalate	2760		7.40	330
85-68-7	Butylbenzylphthalate	2750		6.77	330
105-60-2	Caprolactam	2540		6.60	330
86-74-8	Carbazole	2380		4.72	330
218-01-9	Chrysene	2740		4.71	330
84-74-2	Di-n-butylphthalate	2930		8.54	330
117-84-0	Di-n-octylphthalate	2570		14.6	330
53-70-3	Dibenz(a,h)anthracene	2390		5.95	330
132-64-9	Dibenzofuran	2540		3.82	330
84-66-2	Diethylphthalate	2610		6.85	330
131-11-3	Dimethyl-phthalate	2650		9.68	330
206-44-0	Fluoranthene	2750		4.86	330
86-73-7	Fluorene	2590		4.00	330
118-74-1	Hexachlorobenzene	2630		6.95	330
87-68-3	Hexachlorobutadiene	2730		61.5	330
77-47-4	Hexachlorocyclopentadiene	2550		42.3	330
67-72-1	Hexachloroethane	2530		104	330
193-39-5	Indeno(1,2,3-cd)pyrene	2180		39.5	330
78-59-1	Isophorone	2750		5.36	330
91-20-3	Naphthalene	2610		6.60	330
98-95-3	Nitrobenzene	2680		54.4	330
87-86-5	Pentachlorophenol	2620		62.0	1650

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: LCSD214982

Contract:

Lab File ID: 2050103/A8623

Lab Sample ID: 214982

Date Collected: Time:

Date Received:

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1144

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	2770		1.50	330
108-95-2	Phenol	2440		8.56	330
129-00-0	Pyrene	2870		5.04	330
1319-77-3M	m,p-Cresol	2400		13.9	330
621-64-7	N-Nitroso-di-n-propylamine	2550		7.64	330
86-30-6	N-Nitrosodiphenylamine	2740		14.2	330
95-48-7	o-Cresol	2450		96.7	330

FORM I SV-1

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8623.d
Lab Smp Id: 214982 Client Smp ID: 1228LCSD
Inj Date : 03-JAN-2005 11:44
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 214982*LCSD
Misc Info : 1228LCSD*MSSV~2461~*LCSD*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 7 QC Sample: LCSD
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	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
2 Pyridine	79	0.559	0.556	(0.279)	106376	84.8171	2830
1 n-Nitrosodimethylamine	42	0.553	0.544	(0.276)	33133	89.0335	2970
$ 3 2-Fluorophenol	112	1.155	1.152	(0.576)	318057	63.9748	2130
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	519143	68.4928	2280
5 Aniline	93	1.811	1.810	(0.902)	369124	62.5089	2080
6 Phenol +	94	1.859	1.861	(0.926)	574143	73.3288	2440
7 bis(-2-Chloroethyl)Ether	63	1.848	1.847	(0.921)	389371	79.1536	2640
8 2-Chlorophenol	128	1.899	1.898	(0.946)	365926	72.5028	2420
9 1,3-Dichlorobenzene	146	1.970	1.966	(0.982)	445551	73.9873	2470
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	138861	40.0000	
11 1,4-Dichlorobenzene +	146	2.018	2.015	(1.006)	453788	75.8158	2530

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	12 Benzyl alcohol	108	2.120	2.117	(1.057)	284917	74.7471	2490
	13 1,2-Dichlorobenzene	146	2.111	2.111	(1.052)	426377	74.8886	2500
	15 2-Methylphenol	108	2.219	2.219	(1.106)	382574	73.6355	2450
	14 Bis(2-chloroisopropyl)ether	45	2.185	2.185	(1.089)	348568	73.7355	2460
	17 3- & 4-Methylphenol	108	2.313	2.315	(1.153)	392458	71.9391	2400
	16 N-Nitroso-di-n-propylamine++	70	2.273	2.270	(1.133)	407157	76.4504	2550
	18 Hexachloroethane	117	2.313	2.313	(1.153)	214105	75.8801	2530
$	19 Nitrobenzene-d5	82	2.361	2.361	(0.847)	282439	40.0389	1330(M)
	20 Nitrobenzene	77	2.373	2.372	(0.851)	596704	80.3412	2680
	21 Isophorone	82	2.514	2.514	(0.902)	974258	82.5481	2750
	22 2-Nitrophenol +	139	2.566	2.565	(0.921)	192545	79.3668	2650
	23 2,4-Dimethyphenol	107	2.617	2.619	(0.939)	445276	74.3281	2480
	24 bis(-2-Chloroethoxy)methane	93	2.651	2.650	(0.951)	510986	77.4449	2580
	25 Benzoic Acid	122	2.722	2.719	(0.977)	134141	53.2048	1770
	26 2,4-Dichlorophenol +	162	2.733	2.736	(0.981)	275951	77.4428	2580
	27 1,2,4-Trichlorobenzene	180	2.753	2.753	(0.988)	326737	79.4143	2650
*	28 Naphthalene-d8	136	2.787	2.787	(1.000)	465950	40.0000	
	29 Naphthalene	128	2.798	2.798	(1.004)	1101851	78.2754	2610
	30 4-Chloroaniline	127	2.849	2.849	(1.022)	189324	43.2874	1440
	31 Hexachlorobutadiene +	225	2.866	2.866	(1.029)	233323	81.8129	2730
	32 4-Chloro-3-Methylphenol +	107	3.181	3.181	(1.142)	354008	76.7587	2560
	33 2-Methylnaphthalene	142	3.218	3.218	(1.155)	663528	75.5008	2520
	145 1-Methylnapthalene	142	3.278	3.278	(1.176)	605909	73.1027	2440
	34 Hexachlorocyclopentadiene ++	237	3.306	3.306	(0.858)	138204	76.4857	2550
	35 2,4,6-Trichlorophenol +	196	3.409	3.408	(0.885)	183231	78.3768	2610
	36 2,4,5-Trichlorphenol	196	3.451	3.451	(0.896)	192007	79.3444	2640
$	37 2-Fluorobiphenyl	172	3.443	3.442	(0.894)	341910	39.4638	1320
	38 2-Chloronaphthalene	162	3.514	3.513	(0.912)	571401	76.6966	2560
	39 2-Nitroaniline	138	3.596	3.598	(0.934)	198544	67.8174	2260
	40 Dimethylphthalate	163	3.698	3.698	(0.960)	639468	79.6499	2650
	41 2,6-Dinitrotoluene	165	3.741	3.740	(0.971)	136009	75.4833	2520
	42 Acenaphthylene	152	3.766	3.766	(0.978)	1001325	91.7696	3060
	43 3-Nitroaniline	138	3.851	3.851	(1.000)	110926	47.6504	1590
*	44 Acenaphthene-d10	164	3.851	3.851	(1.000)	223866	40.0000	
	45 Acenaphthene +	153	3.871	3.871	(1.005)	601685	78.4659	2620
	46 2,4-Dinitrophenol ++	184	3.917	3.916	(1.017)	36736	34.5442	1150
	49 4-Nitrophenol ++	109	4.024	4.027	(1.045)	129096	75.7252	2520
	47 Dibenzofuran	168	3.979	3.979	(1.033)	817147	76.3261	2540
	48 2,4-Dinitrotoluene	165	3.988	3.987	(1.035)	174093	74.4514	2480
	50 Diethylphthalate	149	4.129	4.126	(1.072)	674790	78.3711	2610
	52 4-Chlorophenyl-phenylether	204	4.189	4.189	(1.088)	320018	77.0700	2570
	51 Fluorene	166	4.186	4.186	(1.087)	725686	77.6637	2590
	53 4-Nitroaniline	138	4.232	4.231	(1.099)	135417	58.3166	1940
	54 4,6-Dinitro-o-cresol	198	4.240	4.240	(0.890)	76085	55.7698	1860
	55 N-nitrosodiphenylamine (1)+	169	4.269	4.268	(0.896)	449814	82.0804	2740
	56 Azobenzene	77	4.288	4.285	(0.900)	1009958	71.8393	2390
$	57 2,4,6-Tribromophenol	332	4.345	4.342	(1.128)	93743	73.8092	2460

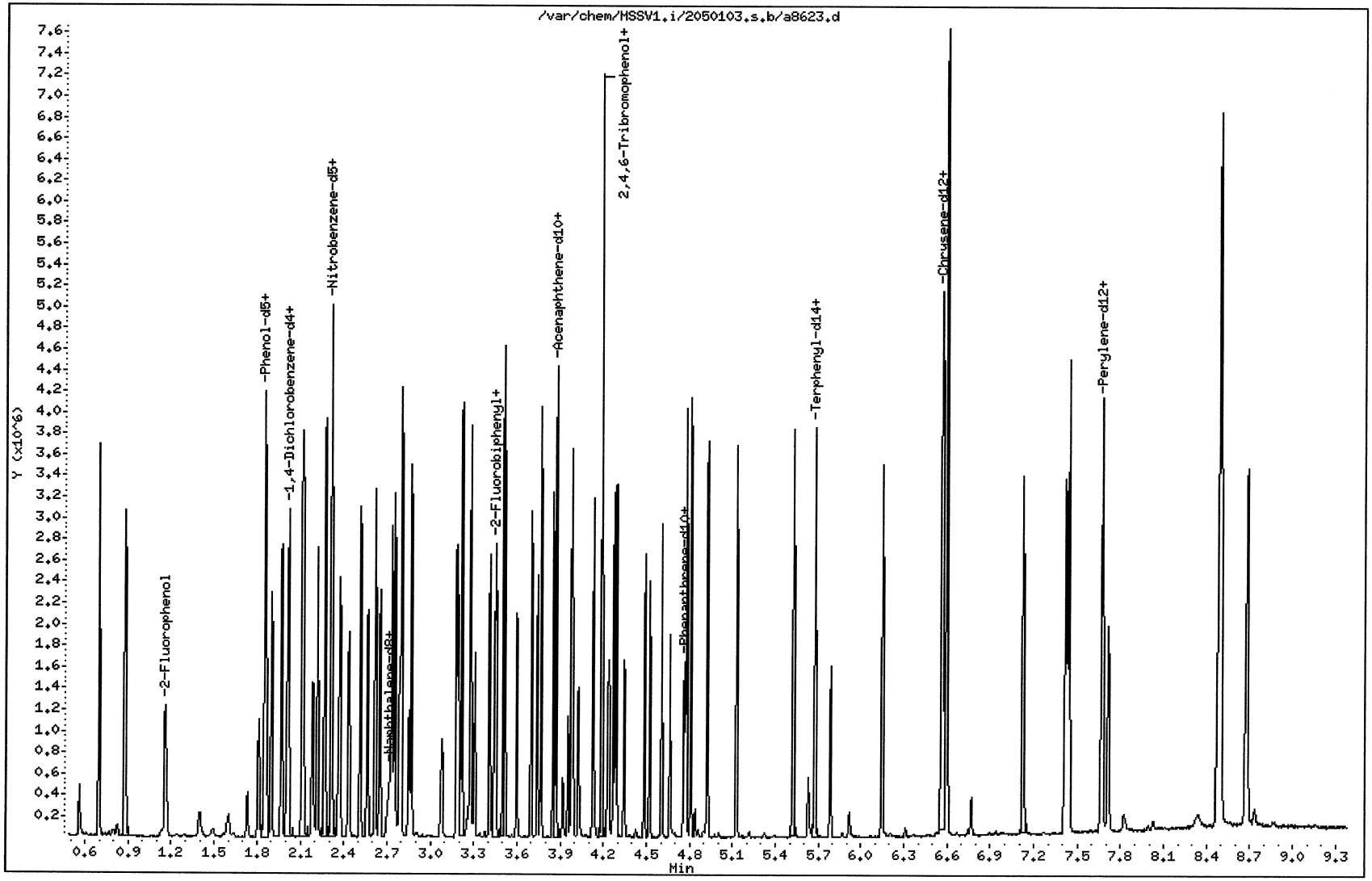
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	58 4-Bromophenyl-phenylether	248	4.487	4.487	(0.942)	157791	82.8792	2760
	59 Hexachlorobenzene	284	4.524	4.521	(0.950)	197342	78.8403	2630
	60 Pentachlorophenol +	266	4.663	4.663	(0.979)	114788	78.6527	2620
*	61 Phenanthrene-d10	188	4.762	4.762	(1.000)	346098	40.0000	
	62 Phenanthrene	178	4.779	4.776	(1.004)	915018	83.0257	2770
	63 Anthracene	178	4.808	4.807	(1.010)	905592	85.1244	2840
	64 Carbazole	167	4.924	4.921	(1.034)	868628	71.2956	2380
	65 Di-n-butylphthalate	149	5.129	5.125	(1.077)	1148350	87.8795	2930
	67 Fluoranthene +	202	5.523	5.523	(1.160)	1019093	82.5636	2750
	68 Benzidine	184	5.628	5.628	(0.856)	148296	204.600	6820(AR)
	69 Pyrene	202	5.676	5.673	(0.863)	1039003	85.9509	2870
$	70 Terphenyl-d14	244	5.784	5.784	(0.880)	313833	41.4331	1380
	71 Butylbenzylphthalate	149	6.147	6.147	(0.935)	528804	82.5288	2750
	73 3,3'-Dichlorobenzidine	252	6.562	6.559	(0.998)	325803	58.3499	1940
	72 Benzo(a)anthracene	228	6.568	6.564	(0.999)	1078502	81.7557	2730
*	74 Chrysene-d12	240	6.576	6.573	(1.000)	369041	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.599	6.596	(1.003)	734680	82.8911	2760
	75 Chrysene	228	6.596	6.593	(1.003)	1023721	82.3443	2740
	77 Di-n-octylphthalate +	149	7.124	7.121	(1.083)	1275298	77.0760	2570
	78 Benzo(b)fluoranthene	252	7.422	7.416	(0.962)	1413255	72.1075	2400
	79 Benzo(k)fluoranthene	252	7.445	7.439	(0.965)	1378738	74.7334	2490
	80 Benzo(a)pyrene +	252	7.674	7.663	(0.995)	1472457	83.0718	2770
*	81 Perylene-d12	264	7.714	7.708	(1.000)	484688	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.486	8.474	(1.100)	1901251	65.4024	2180
	83 Dibenzo(a,h)anthracene	278	8.498	8.483	(1.102)	1734970	71.5884	2390
	84 Benzo(g,h,i)perylene	276	8.682	8.665	(1.125)	1434798	63.2131	2110
M	66 Total Methylphenol	108				775032	72.7666	2430
	91 Acetophenone	105	2.268	2.267	(1.130)	548540	72.4250	2410
	155 Benzaldehyde	77	1.731	1.728	(0.863)	84137	35.6590	1190
	156 Caprolactam	113	3.082	3.070	(1.106)	98358	76.1652	2540
	157 Biphenyl	154	3.502	3.502	(1.257)	789684	74.3409	2480
	158 Atrazine	200	4.606	4.603	(0.967)	161412	270.659	9020(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2050103.s.b/a8623.d
Date : 03-JAN-2005 11:44
Client ID: 1228LCSD
Sample Info: 214982*LCSD
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i
Operator: jar3
Column diameter: 0.25

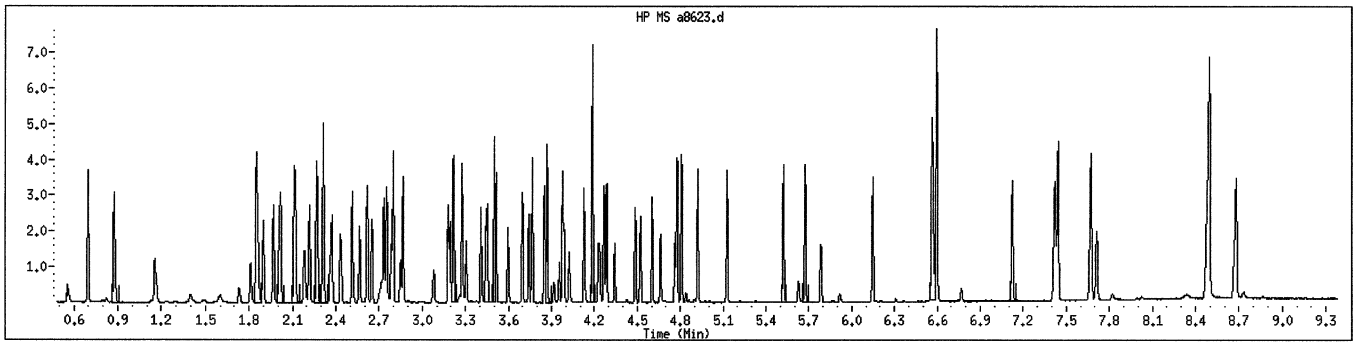


000412

Data file : /var/chem/MSSV1.i/2050103.s.b/a8623.d
Report Date: 01/03/2005 12:33

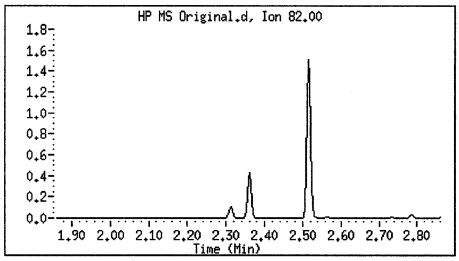
MANUAL INTEGRATION GRAPHIC REPORT

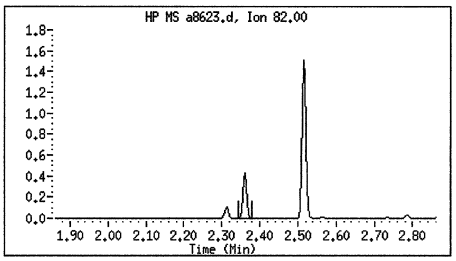
Lab ID	: 214982	SampleType	: LCSD
Injection Date	: 03-JAN-2005 11:44	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 214982*LCSD		
Misc Info	: 1228LCSD*MSSV~2461~*LCSD*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original Final

$ 19 Nitrobenzene-d5 CAS#: 4165-60-0





Data File: /var/chem/MSSV1.i/2050103.s.b/a8623.d
Report Date: 03-Jan-2005 12:33

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: MSSV1.i
Lab File ID: a8623.d
Lab Smp Id: 214982
Analysis Type: SV
Quant Type: ISTD
Operator: jar3
Method File: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Misc Info: 1228LCSD*MSSV~2461~*LCSD*30.0-1.0

Calibration Date: 03-JAN-2005
Calibration Time: 09:58
Client Smp ID: 1228LCSD
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	145920	72960	291840	138861	-4.84
28 Naphthalene-d8	503619	251810	1007238	465950	-7.48
44 Acenaphthene-d10	244823	122412	489646	223866	-8.56
61 Phenanthrene-d10	398255	199128	796510	346098	-13.10
74 Chrysene-d12	356210	178105	712420	369041	3.60
81 Perylene-d12	326551	163276	653102	484688	48.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	2.01	1.51	2.51	2.01	0.02
28 Naphthalene-d8	2.79	2.29	3.29	2.79	0.01
44 Acenaphthene-d10	3.85	3.35	4.35	3.85	0.01
61 Phenanthrene-d10	4.76	4.26	5.26	4.76	0.01
74 Chrysene-d12	6.57	6.07	7.07	6.58	0.05
81 Perylene-d12	7.71	7.21	8.21	7.71	0.08

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.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-122...MS

Contract:

Lab File ID: 2050103/A8625

Lab Sample ID: 214983

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1221

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	3200		11.1	371
88-06-2	2,4,6-Trichlorophenol	3220		9.90	371
120-83-2	2,4-Dichlorophenol	3010		8.52	371
105-67-9	2,4-Dimethylphenol	3110		92.2	371
51-28-5	2,4-Dinitrophenol	1590	J	116	1850
121-14-2	2,4-Dinitrotoluene	3050		5.73	371
606-20-2	2,6-Dinitrotoluene	3090		19.6	371
91-58-7	2-Chloronaphthalene	3240		7.23	371
95-57-8	2-Chlorophenol	2810		63.2	371
91-57-6	2-Methylnaphthalene	2950		13.2	371
88-74-4	2-Nitroaniline	2680		9.27	1850
88-75-5	2-Nitrophenol	3090		7.15	371
91-94-1	3,3'-Dichlorobenzidine	2230		20.8	742
99-09-2	3-Nitroaniline	1790	J	4.98	1850
534-52-1	2-Methyl-4,6-dinitrophenol	2440		37.0	1850
101-55-3	4-Bromophenyl-phenylether	3200		7.64	371
59-50-7	4-Chloro-3-methylphenol	3090		9.68	371
106-47-8	4-Chloroaniline	1530		21.9	371
7005-72-3	4-Chlorophenyl-phenylether	3180		13.2	371
100-01-6	4-Nitroaniline	2300		5.49	1850
100-02-7	4-Nitrophenol	3050		5.52	1850
83-32-9	Acenaphthene	3160		4.72	371
208-96-8	Acenaphthylene	3720		4.90	371
98-86-2	Acetophenone	2910		15.9	371
120-12-7	Anthracene	3320		4.98	371
1912-24-9	Atrazine (Aatrex)	11000	E	12.7	742
100-52-7	Benzaldehyde	3460		13.7	742
56-55-3	Benzo(a)anthracene	3230		3.88	371
50-32-8	Benzo(a)pyrene	3250		3.38	371

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-122...MS

Contract:

Lab File ID: 2050103/A8625

Lab Sample ID: 214983

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1221

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	2720		10.1	371
191-24-2	Benzo(g,h,i)perylene	2330		6.69	371
207-08-9	Benzo(k)fluoranthene	3110		8.25	371
92-52-4	Biphenyl	2950		6.07	371
111-91-1	Bis(2-Chloroethoxy)methane	3010		9.80	371
111-44-4	Bis(2-Chloroethyl)ether	3100		65.4	371
108-60-1	bis(2-Chloroisopropyl)ether	2900		73.0	371
117-81-7	bis(2-ethylhexyl)phthalate	3160		8.32	371
85-68-7	Butylbenzylphthalate	3150		7.61	371
105-60-2	Caprolactam	2860		7.42	371
86-74-8	Carbazole	2750		5.31	371
218-01-9	Chrysene	3180		5.29	371
84-74-2	Di-n-butylphthalate	3360		9.60	371
117-84-0	Di-n-octylphthalate	3050		16.4	371
53-70-3	Dibenz(a,h)anthracene	2740		6.69	371
132-64-9	Dibenzofuran	3070		4.29	371
84-66-2	Diethylphthalate	3190		7.70	371
131-11-3	Dimethyl-phthalate	3230		10.9	371
206-44-0	Fluoranthene	3220		5.46	371
86-73-7	Fluorene	3140		4.50	371
118-74-1	Hexachlorobenzene	3140		7.81	371
87-68-3	Hexachlorobutadiene	3250		69.1	371
77-47-4	Hexachlorocyclopentadiene	2920		47.6	371
67-72-1	Hexachloroethane	2990		117	371
193-39-5	Indeno(1,2,3-cd)pyrene	2540		44.4	371
78-59-1	Isophorone	3360		6.03	371
91-20-3	Naphthalene	3140		7.42	371
98-95-3	Nitrobenzene	3190		61.2	371
87-86-5	Pentachlorophenol	3260		69.7	1850

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-122...MS

Contract:

Lab File ID: 2050103/A8625

Lab Sample ID: 214983

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1221

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	3170		1.69	371
108-95-2	Phenol	2750		9.62	371
129-00-0	Pyrene	3190		5.67	371
1319-77-3M	m,p-Cresol	2860		15.6	371
621-64-7	N-Nitroso-di-n-propylamine	3020		8.59	371
86-30-6	N-Nitrosodiphenylamine	3330		16.0	371
95-48-7	o-Cresol	2880		109	371

FORM I SV-1

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8625.d
Lab Smp Id: 214983 Client Smp ID: 20412290201
Inj Date : 03-JAN-2005 12:21
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 214983*MS
Misc Info : 20412290201*MSSV~2461~*122902*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 9 QC Sample: MS
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	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
2 Pyridine	79	0.562	0.556	(0.280)	96262	70.9005	2360
1 n-Nitrosodimethylamine	42	0.553	0.544	(0.276)	36401	90.3568	3010
$ 3 2-Fluorophenol	112	1.158	1.152	(0.577)	360092	66.9071	2230
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	579502	70.6265	2350
5 Aniline	93	1.811	1.810	(0.902)	378485	59.2070	1970
6 Phenol +	94	1.859	1.861	(0.926)	624008	73.6207	2450
7 bis(-2-Chloroethyl)Ether	63	1.850	1.847	(0.922)	440376	82.6962	2760
8 2-Chlorophenol	128	1.899	1.898	(0.946)	410092	75.0582	2500
9 1,3-Dichlorobenzene	146	1.969	1.966	(0.982)	502900	77.1430	2570
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	150323	40.0000	
11 1,4-Dichlorobenzene +	146	2.018	2.015	(1.006)	499637	77.1110	2570

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	12 Benzyl alcohol	108	2.120	2.117	(1.057)	312972	75.8466	2530
	13 1,2-Dichlorobenzene	146	2.111	2.111	(1.052)	483574	78.4585	2620
	15 2-Methylphenol	108	2.219	2.219	(1.106)	432276	76.8578	2560
	14 Bis(2-chloroisopropyl)ether	45	2.185	2.185	(1.089)	395732	77.3295	2580
	17 3- & 4-Methylphenol	108	2.313	2.315	(1.153)	449425	76.0999	2540
	16 N-Nitroso-di-n-propylamine++	70	2.273	2.270	(1.133)	464853	80.6284	2690
	18 Hexachloroethane	117	2.313	2.313	(1.153)	243669	79.7731	2660
$	19 Nitrobenzene-d5	82	2.361	2.361	(0.847)	307548	41.2819	1380(M)
	20 Nitrobenzene	77	2.373	2.372	(0.851)	668225	85.1905	2840
	21 Isophorone	82	2.514	2.514	(0.902)	1116783	89.5964	2990
	22 2-Nitrophenol +	139	2.566	2.565	(0.921)	211252	82.4511	2750
	23 2,4-Dimethyphenol	107	2.619	2.619	(0.940)	525885	83.1196	2770
	24 bis(-2-Chloroethoxy)methane	93	2.651	2.650	(0.951)	560967	80.5025	2680
	25 Benzoic Acid	122	2.722	2.719	(0.977)	125726	47.2175	1570
	26 2,4-Dichlorophenol +	162	2.733	2.736	(0.981)	302627	80.4166	2680
	27 1,2,4-Trichlorobenzene	180	2.753	2.753	(0.988)	358184	82.4319	2750
*	28 Naphthalene-d8	136	2.787	2.787	(1.000)	492097	40.0000	
	29 Naphthalene	128	2.798	2.798	(1.004)	1243446	83.6407	2790
	30 4-Chloroaniline	127	2.849	2.849	(1.022)	188574	40.8250	1360
	31 Hexachlorobutadiene +	225	2.869	2.866	(1.030)	260690	86.5520	2890
	32 4-Chloro-3-Methylphenol +	107	3.181	3.181	(1.142)	401915	82.5158	2750
	33 2-Methylnaphthalene	142	3.218	3.218	(1.155)	729116	78.5557	2620
	145 1-Methylnapthalene	142	3.278	3.278	(1.176)	675613	77.1814	2570
	34 Hexachlorocyclopentadiene ++	237	3.306	3.306	(0.858)	143104	78.1292	2600
	35 2,4,6-Trichlorophenol +	196	3.411	3.408	(0.886)	203632	85.9284	2860
	36 2,4,5-Trichlorphenol	196	3.451	3.451	(0.896)	210058	85.6329	2850
$	37 2-Fluorobiphenyl	172	3.443	3.442	(0.894)	375280	42.7311	1420
	38 2-Chloronaphthalene	162	3.516	3.513	(0.913)	653120	86.4828	2880
	39 2-Nitroaniline	138	3.599	3.598	(0.934)	211535	71.2802	2380
	40 Dimethylphthalate	163	3.701	3.698	(0.961)	701686	86.2206	2870
	41 2,6-Dinitrotoluene	165	3.743	3.740	(0.972)	150870	82.6016	2750
	42 Acenaphthylene	152	3.766	3.766	(0.978)	1099459	99.4043	3310
	43 3-Nitroaniline	138	3.851	3.851	(1.000)	112403	47.6336	1590
*	44 Acenaphthene-d10	164	3.851	3.851	(1.000)	226927	40.0000	
	45 Acenaphthene +	153	3.871	3.871	(1.005)	656134	84.4124	2810
	46 2,4-Dinitrophenol ++	184	3.917	3.916	(1.017)	45475	42.1849	1410
	49 4-Nitrophenol ++	109	4.024	4.027	(1.045)	140541	81.3266	2710
	47 Dibenzofuran	168	3.979	3.979	(1.033)	890015	82.0110	2730
	48 2,4-Dinitrotoluene	165	3.990	3.987	(1.036)	192879	81.3726	2710
	50 Diethylphthalate	149	4.129	4.126	(1.072)	744188	85.2652	2840
	52 4-Chlorophenyl-phenylether	204	4.189	4.189	(1.088)	357744	84.9934	2830
	51 Fluorene	166	4.189	4.186	(1.088)	792437	83.6635	2790
	53 4-Nitroaniline	138	4.234	4.231	(1.099)	144871	61.5463	2050
	54 4,6-Dinitro-o-cresol	198	4.243	4.240	(0.891)	91092	65.1078	2170
	55 N-nitrosodiphenylamine (1)+	169	4.271	4.268	(0.897)	498481	88.6967	2960
	56 Azobenzene	77	4.288	4.285	(0.900)	1118614	77.5875	2590
$	57 2,4,6-Tribromophenol	332	4.345	4.342	(1.128)	96449	74.9155	2500

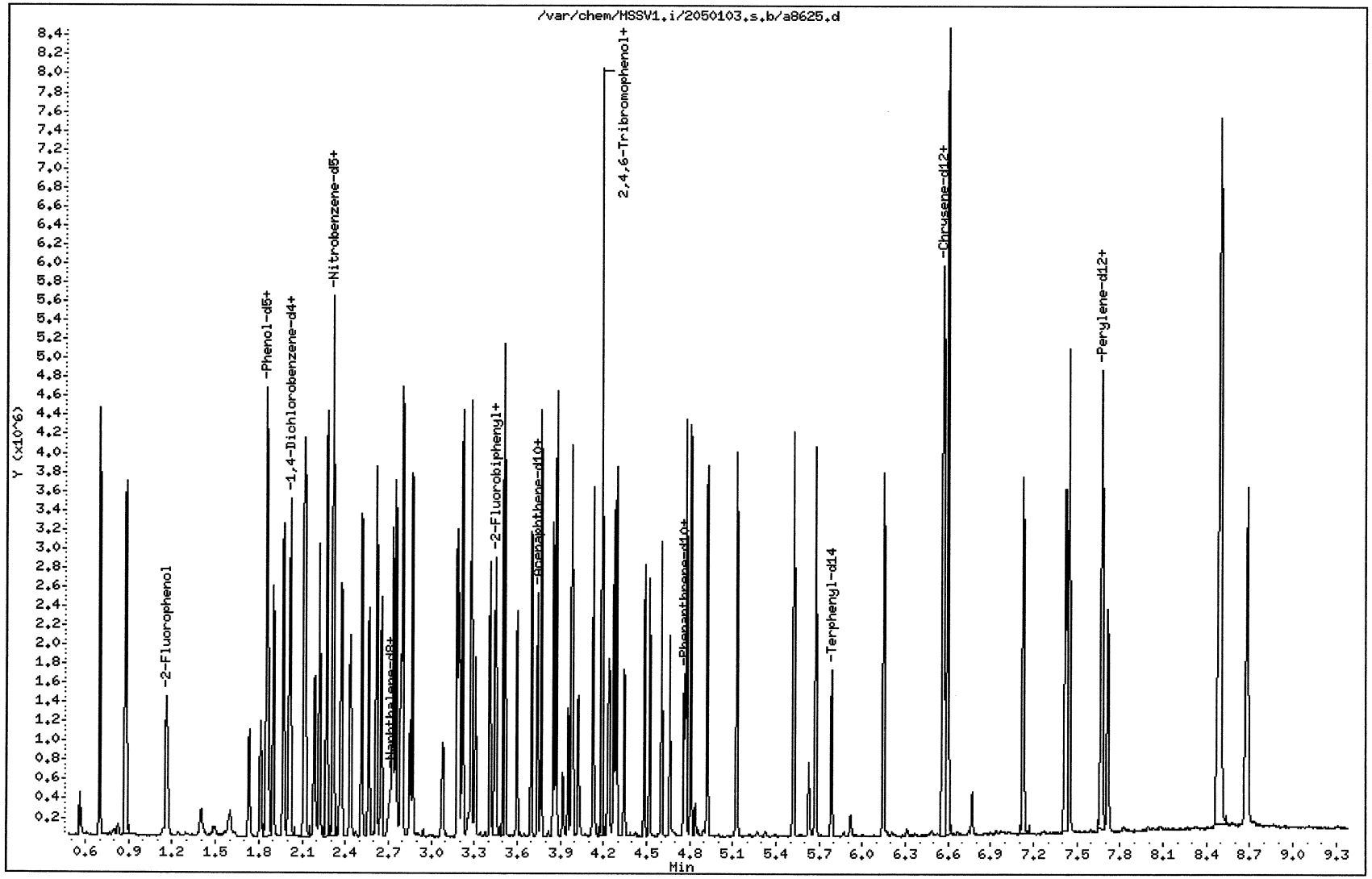
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	58 4-Bromophenyl-phenylether	248	4.487	4.487	(0.942)	167157	85.6132	2850
	59 Hexachlorobenzene	284	4.524	4.521	(0.950)	215192	83.8316	2790
	60 Pentachlorophenol +	266	4.663	4.663	(0.979)	130318	87.0712	2900
*	61 Phenanthrene-d10	188	4.762	4.762	(1.000)	354933	40.0000	
	62 Phenanthrene	178	4.777	4.776	(1.003)	954887	84.4866	2820
	63 Anthracene	178	4.811	4.807	(1.010)	964864	88.4383	2950
	64 Carbazole	167	4.924	4.921	(1.034)	916591	73.3596	2450
	65 Di-n-butylphthalate	149	5.128	5.125	(1.077)	1202679	89.7461	2990
	67 Fluoranthene +	202	5.523	5.523	(1.160)	1085726	85.7724	2860
	68 Benzidine	184	5.628	5.628	(0.856)	185043	237.206	7910(AR)
	69 Pyrene	202	5.676	5.673	(0.863)	1109881	85.3075	2840
$	70 Terphenyl-d14	244	5.784	5.784	(0.880)	327106	40.1250	1340
	71 Butylbenzylphthalate	149	6.150	6.147	(0.935)	579212	83.9896	2800
	73 3,3'-Dichlorobenzidine	252	6.565	6.559	(0.998)	357488	59.4873	1980
	72 Benzo(a)anthracene	228	6.567	6.564	(0.999)	1221537	86.0362	2870
*	74 Chrysene-d12	240	6.576	6.573	(1.000)	397189	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	6.599	6.596	(1.003)	804704	84.3574	2810
	75 Chrysene	228	6.599	6.593	(1.003)	1136268	84.9200	2830
	77 Di-n-octylphthalate +	149	7.127	7.121	(1.084)	1447505	81.2840	2710
	78 Benzo(b)fluoranthene	252	7.425	7.416	(0.962)	1602962	72.7252	2420
	79 Benzo(k)fluoranthene	252	7.447	7.439	(0.965)	1724670	83.1268	2770
	80 Benzo(a)pyrene +	252	7.674	7.663	(0.995)	1726992	86.6369	2890
*	81 Perylene-d12	264	7.714	7.708	(1.000)	545080	40.0000	
	82 Indeno(1,2,3-cd)pyrene	276	8.495	8.474	(1.101)	2216263	67.7918	2260
	83 Dibenzo(a,h)anthracene	278	8.500	8.483	(1.102)	1994928	73.1947	2440
	84 Benzo(g,h,i)perylene	276	8.685	8.665	(1.126)	1585219	62.1023	2070
M	66 Total Methylphenol	108				881701	76.4696	2550
	91 Acetophenone	105	2.267	2.267	(1.130)	636850	77.6733	2590
	155 Benzaldehyde	77	1.731	1.728	(0.863)	236330	92.5243	3080
	156 Caprolactam	113	3.082	3.070	(1.106)	103826	76.1275	2540
	157 Biphenyl	154	3.505	3.502	(1.258)	881439	78.5697	2620
	158 Atrazine	200	4.606	4.603	(0.967)	179441	293.401	9780(AR)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2050103.s.b/a8625.d
Date : 03-JAN-2005 12:21
Client ID: 20412290201
Sample Info: 214983*MS
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i
Operator: jar3
Column diameter: 0.25

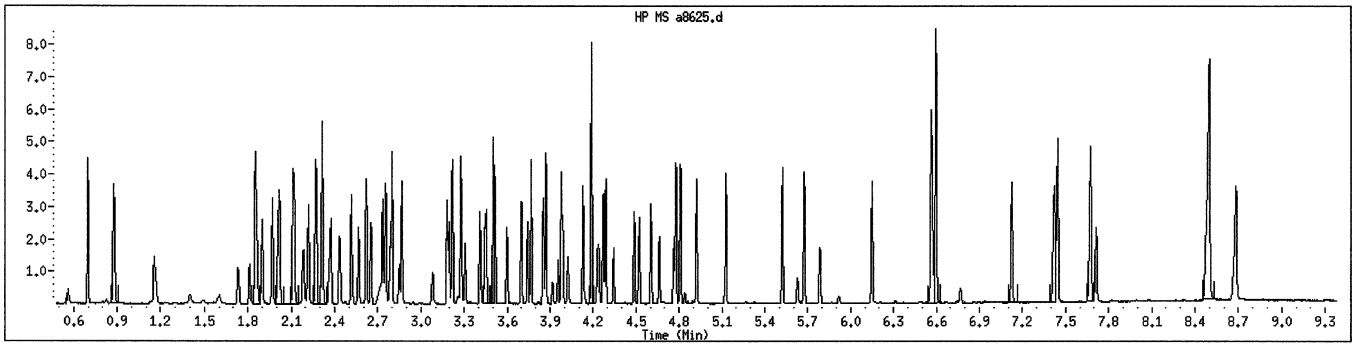


000421

Data file : /var/chem/MSSV1.i/2050103.s.b/a8625.d
Report Date: 01/03/2005 12:33

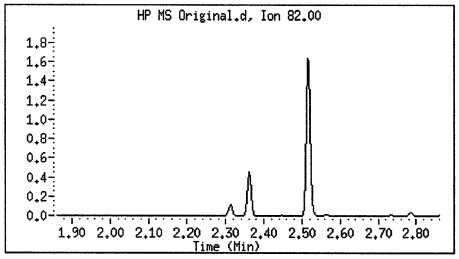
MANUAL INTEGRATION GRAPHIC REPORT

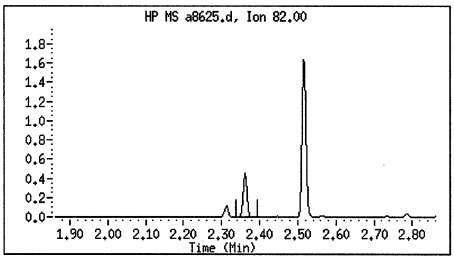
Lab ID	: 214983	SampleType	: MS
Injection Date	: 03-JAN-2005 12:21	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 214983*MS		
Misc Info	: 20412290201*MSSV~2461~*122902*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original Final

$ 19 Nitrobenzene-d5 CAS#: 4165-60-0





Data File: /var/chem/MSSV1.i/2050103.s.b/a8625.d
Report Date: 03-Jan-2005 12:33

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: MSSV1.i
Lab File ID: a8625.d
Lab Smp Id: 214983
Analysis Type: SV
Quant Type: ISTD
Operator: jar3
Method File: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Misc Info: 20412290201*MSSV~2461~*122902*30.0-1.0

Calibration Date: 03-JAN-2005
Calibration Time: 09:58
Client Smp ID: 20412290201
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	145920	72960	291840	150323	3.02
28 Naphthalene-d8	503619	251810	1007238	492097	-2.29
44 Acenaphthene-d10	244823	122412	489646	226927	-7.31
61 Phenanthrene-d10	398255	199128	796510	354933	-10.88
74 Chrysene-d12	356210	178105	712420	397189	11.50
81 Perylene-d12	326551	163276	653102	545080	66.92

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	2.01	1.51	2.51	2.01	0.01
28 Naphthalene-d8	2.79	2.29	3.29	2.79	0.01
44 Acenaphthene-d10	3.85	3.35	4.35	3.85	0.01
61 Phenanthrene-d10	4.76	4.26	5.26	4.76	0.01
74 Chrysene-d12	6.57	6.07	7.07	6.58	0.05
81 Perylene-d12	7.71	7.21	8.21	7.71	0.08

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.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-12...MSD

Contract:

Lab File ID: 2050103/A8626

Lab Sample ID: 214984

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1239

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
95-95-4	2,4,5-Trichlorophenol	2960		11.1	371
88-06-2	2,4,6-Trichlorophenol	2950		9.90	371
120-83-2	2,4-Dichlorophenol	2590		8.52	371
105-67-9	2,4-Dimethylphenol	2730		92.2	371
51-28-5	2,4-Dinitrophenol	1520	J	116	1850
121-14-2	2,4-Dinitrotoluene	2830		5.73	371
606-20-2	2,6-Dinitrotoluene	2880		19.6	371
91-58-7	2-Chloronaphthalene	2910		7.23	371
95-57-8	2-Chlorophenol	2530		63.2	371
91-57-6	2-Methylnaphthalene	2650		13.2	371
88-74-4	2-Nitroaniline	2460		9.27	1850
88-75-5	2-Nitrophenol	2780		7.15	371
91-94-1	3,3'-Dichlorobenzidine	2110		20.8	742
99-09-2	3-Nitroaniline	1790	J	4.98	1850
534-52-1	2-Methyl-4,6-dinitrophenol	2260		37.0	1850
101-55-3	4-Bromophenyl-phenylether	2990		7.64	371
59-50-7	4-Chloro-3-methylphenol	2610		9.68	371
106-47-8	4-Chloroaniline	1350		21.9	371
7005-72-3	4-Chlorophenyl-phenylether	2930		13.2	371
100-01-6	4-Nitroaniline	2110		5.49	1850
100-02-7	4-Nitrophenol	2770		5.52	1850
83-32-9	Acenaphthene	2920		4.72	371
208-96-8	Acenaphthylene	3380		4.90	371
98-86-2	Acetophenone	2590		15.9	371
120-12-7	Anthracene	3000		4.98	371
1912-24-9	Atrazine (Aatrex)	9910	E	12.7	742
100-52-7	Benzaldehyde	2780		13.7	742
56-55-3	Benzo(a)anthracene	3020		3.88	371
50-32-8	Benzo(a)pyrene	3000		3.38	371

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-12...MSD

Contract:

Lab File ID: 2050103/A8626

Lab Sample ID: 214984

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1239

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
205-99-2	Benzo(b)fluoranthene	2560		10.1	371
191-24-2	Benzo(g,h,i)perylene	2200		6.69	371
207-08-9	Benzo(k)fluoranthene	2840		8.25	371
92-52-4	Biphenyl	2510		6.07	371
111-91-1	Bis(2-Chloroethoxy)methane	2790		9.80	371
111-44-4	Bis(2-Chloroethyl)ether	2870		65.4	371
108-60-1	bis(2-Chloroisopropyl)ether	2650		73.0	371
117-81-7	bis(2-ethylhexyl)phthalate	3050		8.32	371
85-68-7	Butylbenzylphthalate	3040		7.61	371
105-60-2	Caprolactam	2460		7.42	371
86-74-8	Carbazole	2500		5.31	371
218-01-9	Chrysene	2970		5.29	371
84-74-2	Di-n-butylphthalate	3040		9.60	371
117-84-0	Di-n-octylphthalate	2900		16.4	371
53-70-3	Dibenz(a,h)anthracene	2540		6.69	371
132-64-9	Dibenzofuran	2860		4.29	371
84-66-2	Diethylphthalate	2930		7.70	371
131-11-3	Dimethyl-phthalate	2970		10.9	371
206-44-0	Fluoranthene	2880		5.46	371
86-73-7	Fluorene	2900		4.50	371
118-74-1	Hexachlorobenzene	2820		7.81	371
87-68-3	Hexachlorobutadiene	3040		69.1	371
77-47-4	Hexachlorocyclopentadiene	2980		47.6	371
67-72-1	Hexachloroethane	2780		117	371
193-39-5	Indeno(1,2,3-cd)pyrene	2370		44.4	371
78-59-1	Isophorone	3010		6.03	371
91-20-3	Naphthalene	2830		7.42	371
98-95-3	Nitrobenzene	2890		61.2	371
87-86-5	Pentachlorophenol	2910		69.7	1850

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-12...MSD

Contract:

Lab File ID: 2050103/A8626

Lab Sample ID: 214984

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/28/04

Date Analyzed: 01/03/05 Time: 1239

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3550B

Analytical Method: SW-846 8270

Instrument ID: MSSV1

Prep Batch: 285542 Analytical Batch: 285687

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	2930		1.69	371
108-95-2	Phenol	2520		9.62	371
129-00-0	Pyrene	3100		5.67	371
1319-77-3M	m,p-Cresol	2470		15.6	371
621-64-7	N-Nitroso-di-n-propylamine	2680		8.59	371
86-30-6	N-Nitrosodiphenylamine	2960		16.0	371
95-48-7	o-Cresol	2550		109	371

GCAL, Inc.

BNA QUANT AND RATIO REPORT

Data file : /var/chem/MSSV1.i/2050103.s.b/a8626.d
Lab Smp Id: 214984 Client Smp ID: 20412290201
Inj Date : 03-JAN-2005 12:39
Operator : jar3 Inst ID: MSSV1.i
Smp Info : 214984*MSD
Misc Info : 20412290201*MSSV~2461~*122902*30.0-1.0
Comment :
Method : /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Meth Date : 03-Jan-2005 10:29 jar3 Quant Type: ISTD
Cal Date : 20-DEC-2004 14:48 Cal File: a8368.d
Als bottle: 10 QC Sample: MSD
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	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
2 Pyridine	79	0.562	0.556	(0.280)	114724	76.3933	2550
1 n-Nitrosodimethylamine	42	0.556	0.544	(0.277)	36717	82.3988	2750
$ 3 2-Fluorophenol	112	1.158	1.152	(0.577)	370302	62.2044	2070
$ 4 Phenol-d5	99	1.850	1.853	(0.922)	580133	63.9215	2130
5 Aniline	93	1.810	1.810	(0.902)	363793	51.4500	1710
6 Phenol +	94	1.859	1.861	(0.926)	628806	67.0707	2240
7 bis(-2-Chloroethyl)Ether	63	1.850	1.847	(0.922)	450833	76.5392	2550
8 2-Chlorophenol	128	1.898	1.898	(0.946)	407241	67.3867	2250
9 1,3-Dichlorobenzene	146	1.969	1.966	(0.982)	520081	72.1261	2400
* 10 1,4-Dichlorobenzene-d4	152	2.006	2.006	(1.000)	166272	40.0000	
11 1,4-Dichlorobenzene +	146	2.018	2.015	(1.006)	519766	72.5230	2420

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
	12 Benzyl alcohol	108	2.120	2.117	(1.057)	305411	66.9147	2230
	13 1,2-Dichlorobenzene	146	2.111	2.111	(1.052)	495449	72.6745	2420
	15 2-Methylphenol	108	2.216	2.219	(1.105)	424045	68.1624	2270
	14 Bis(2-chloroisopropyl)ether	45	2.182	2.185	(1.088)	401582	70.9454	2360
	17 3- & 4-Methylphenol	108	2.313	2.315	(1.153)	430992	65.9785	2200
	16 N-Nitroso-di-n-propylamine++	70	2.273	2.270	(1.133)	456084	71.5194	2380
	18 Hexachloroethane	117	2.310	2.313	(1.151)	250396	74.1122	2470
$	19 Nitrobenzene-d5	82	2.361	2.361	(0.847)	308962	38.1120	1270(M)
	20 Nitrobenzene	77	2.372	2.372	(0.851)	658443	77.1430	2570
	21 Isophorone	82	2.514	2.514	(0.902)	1090807	80.4228	2680
	22 2-Nitrophenol +	139	2.565	2.565	(0.921)	206392	74.0284	2470
	23 2,4-Dimethyphenol	107	2.619	2.619	(0.940)	501419	72.8321	2430
	24 bis(-2-Chloroethoxy)methane	93	2.651	2.650	(0.951)	563160	74.2701	2480
	25 Benzoic Acid	122	2.719	2.719	(0.976)	117126	40.4242	1350
	26 2,4-Dichlorophenol +	162	2.733	2.736	(0.981)	282964	69.1001	2300
	27 1,2,4-Trichlorobenzene	180	2.753	2.753	(0.988)	362527	76.6725	2560
*	28 Naphthalene-d8	136	2.787	2.787	(1.000)	535477	40.0000	
	29 Naphthalene	128	2.798	2.798	(1.004)	1225010	75.7252	2520
	30 4-Chloroaniline	127	2.849	2.849	(1.022)	180849	35.9808	1200
	31 Hexachlorobutadiene +	225	2.866	2.866	(1.029)	265577	81.0314	2700
	32 4-Chloro-3-Methylphenol +	107	3.181	3.181	(1.142)	368445	69.5161	2320
	33 2-Methylnaphthalene	142	3.218	3.218	(1.155)	714729	70.7673	2360
	145 1-Methylnapthalene	142	3.278	3.278	(1.176)	659432	69.2300	2310
	34 Hexachlorocyclopentadiene ++	237	3.306	3.306	(0.858)	145830	79.5110	2650
	35 2,4,6-Trichlorophenol +	196	3.408	3.408	(0.885)	186810	78.7244	2620
	36 2,4,5-Trichlorphenol	196	3.451	3.451	(0.896)	193546	78.7960	2630
$	37 2-Fluorobiphenyl	172	3.442	3.442	(0.894)	356275	40.5129	1350
	38 2-Chloronaphthalene	162	3.513	3.513	(0.912)	588416	77.8108	2590
	39 2-Nitroaniline	138	3.599	3.598	(0.934)	195037	65.6330	2190
	40 Dimethylphthalate	163	3.701	3.698	(0.961)	644294	79.0626	2640
	41 2,6-Dinitrotoluene	165	3.743	3.740	(0.972)	140339	76.7330	2560
	42 Acenaphthylene	152	3.766	3.766	(0.978)	1000552	90.3409	3010
	43 3-Nitroaniline	138	3.854	3.851	(1.001)	112570	47.6405	1590
*	44 Acenaphthene-d10	164	3.851	3.851	(1.000)	227231	40.0000	
	45 Acenaphthene +	153	3.871	3.871	(1.005)	607639	78.0689	2600
	46 2,4-Dinitrophenol ++	184	3.919	3.916	(1.018)	43681	40.4665	1350
	49 4-Nitrophenol ++	109	4.024	4.027	(1.045)	127752	73.8271	2460
	47 Dibenzofuran	168	3.979	3.979	(1.033)	826788	76.0830	2540
	48 2,4-Dinitrotoluene	165	3.990	3.987	(1.036)	179239	75.5170	2520
	50 Diethylphthalate	149	4.129	4.126	(1.072)	685178	78.3991	2610
	52 4-Chlorophenyl-phenylether	204	4.189	4.189	(1.088)	330258	78.3582	2610
	51 Fluorene	166	4.189	4.186	(1.088)	734443	77.4369	2580
	53 4-Nitroaniline	138	4.231	4.231	(1.099)	132670	56.2875	1880
	54 4,6-Dinitro-o-cresol	198	4.240	4.240	(0.890)	85342	60.1917	2010
	55 N-nitrosodiphenylamine (1)+	169	4.268	4.268	(0.896)	448561	78.7592	2630
	56 Azobenzene	77	4.288	4.285	(0.900)	1045633	71.5667	2390
$	57 2,4,6-Tribromophenol	332	4.345	4.342	(1.128)	95757	74.2785	2480

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppm)	FINAL (ug/Kg)
58 4-Bromophenyl-phenylether	248	4.487	4.487	(0.942)	157758	79.7311	2660
59 Hexachlorobenzene	284	4.524	4.521	(0.950)	196186	75.4172	2510
60 Pentachlorophenol +	266	4.663	4.663	(0.979)	117746	77.6312	2590
* 61 Phenanthrene-d10	188	4.762	4.762	(1.000)	359688	40.0000	
62 Phenanthrene	178	4.779	4.776	(1.004)	895715	78.2034	2610
63 Anthracene	178	4.810	4.807	(1.010)	884279	79.9804	2670
64 Carbazole	167	4.924	4.921	(1.034)	844261	66.6774	2220
65 Di-n-butylphthalate	149	5.128	5.125	(1.077)	1099291	80.9467	2700
67 Fluoranthene +	202	5.523	5.523	(1.160)	986397	76.8953	2560
68 Benzidine	184	5.628	5.628	(0.856)	189096	253.682	8460(AR)
69 Pyrene	202	5.676	5.673	(0.863)	1029929	82.8462	2760
$ 70 Terphenyl-d14	244	5.784	5.784	(0.880)	302800	38.8720	1300
71 Butylbenzylphthalate	149	6.150	6.147	(0.935)	533164	80.9102	2700
73 3,3'-Dichlorobenzidine	252	6.565	6.559	(0.998)	324062	56.4346	1880
72 Benzo(a)anthracene	228	6.567	6.564	(0.999)	1095229	80.7298	2690
* 74 Chrysene-d12	240	6.576	6.573	(1.000)	379527	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	6.599	6.596	(1.003)	740713	81.2627	2710
75 Chrysene	228	6.599	6.593	(1.003)	1011579	79.1195	2640
77 Di-n-octylphthalate +	149	7.127	7.121	(1.084)	1318030	77.4577	2580
78 Benzo(b)fluoranthene	252	7.422	7.416	(0.962)	1453125	68.4990	2280
79 Benzo(k)fluoranthene	252	7.447	7.439	(0.965)	1517162	75.9778	2530
80 Benzo(a)pyrene +	252	7.674	7.663	(0.995)	1534923	80.0053	2670
* 81 Perylene-d12	264	7.714	7.708	(1.000)	524615	40.0000	
82 Indeno(1,2,3-cd)pyrene	276	8.489	8.474	(1.100)	1992852	63.3360	2110
83 Dibenzo(a,h)anthracene	278	8.500	8.483	(1.102)	1777936	67.7779	2260
84 Benzo(g,h,i)perylene	276	8.685	8.665	(1.126)	1446228	58.8674	1960
M 66 Total Methylphenol	108				855037	67.0438	2230
91 Acetophenone	105	2.267	2.267	(1.130)	626177	69.0460	2300
155 Benzaldehyde	77	1.731	1.728	(0.863)	209700	74.2236	2470
156 Caprolactam	113	3.079	3.070	(1.105)	97448	65.6627	2190
157 Biphenyl	154	3.502	3.502	(1.257)	816232	66.8631	2230
158 Atrazine	200	4.606	4.603	(0.967)	163968	264.557	8820(AR)

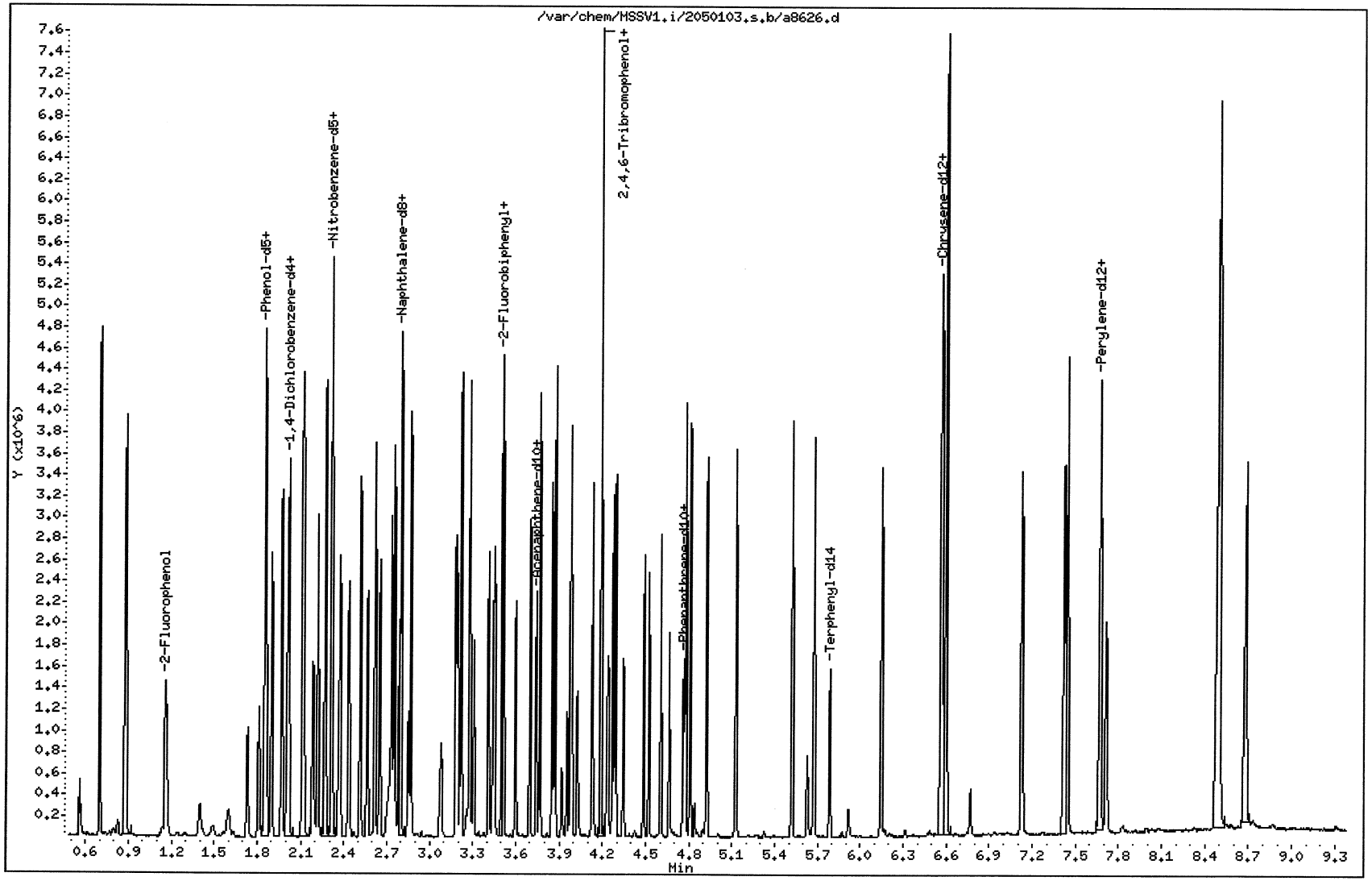
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/MSSV1.i/2050103.s.b/a8626.d
Date : 03-JAN-2005 12:39
Client ID: 20412290201
Sample Info: 214984*MSD
Volume Injected (uL): 1.0
Column phase: RTX-5MS-30M

Instrument: MSSV1.i

Operator: jar3
Column diameter: 0.25

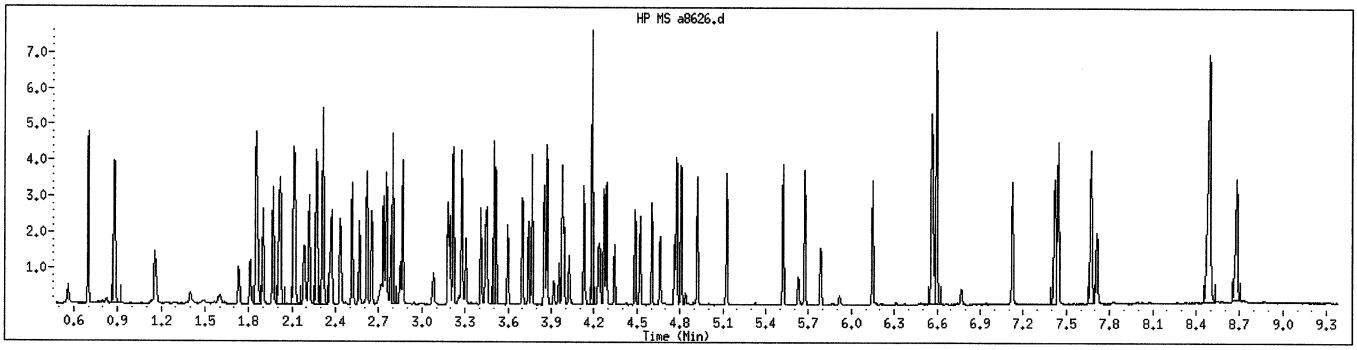


000430

Data file : /var/chem/MSSV1.i/2050103.s.b/a8626.d
Report Date: 01/03/2005 12:34

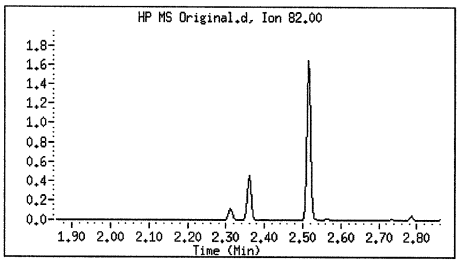
MANUAL INTEGRATION GRAPHIC REPORT

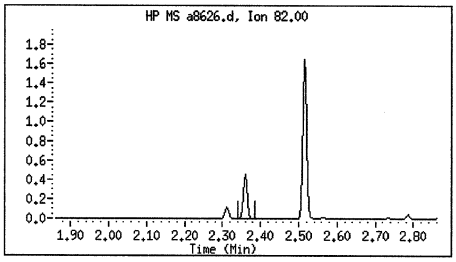
Lab ID	: 214984	SampleType	: MSD
Injection Date	: 03-JAN-2005 12:39	Instrument	: MSSV1.i
Operator	: jar3		
Sample Info	: 214984*MSD		
Misc Info	: 20412290201*MSSV~2461~*122902*30.0-1.0		
Method	: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8270C



Original Final

$ 19 Nitrobenzene-d5 CAS#: 4165-60-0





Data File: /var/chem/MSSV1.i/2050103.s.b/a8626.d
Report Date: 03-Jan-2005 12:34

GCAL, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: MSSV1.i
Lab File ID: a8626.d
Lab Smp Id: 214984
Analysis Type: SV
Quant Type: ISTD
Operator: jar3
Method File: /var/chem/MSSV1.i/2050103.s.b/8270CE_01.m
Misc Info: 20412290201*MSSV~2461~*122902*30.0-1.0

Calibration Date: 03-JAN-2005
Calibration Time: 09:58
Client Smp ID: 20412290201
Level: LOW
Sample Type: SOIL

Test Mode:
Use Last Calibration Run.
If Continuing Cal. use Initial Cal. Level 2

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	145920	72960	291840	166272	13.95
28 Naphthalene-d8	503619	251810	1007238	535477	6.33
44 Acenaphthene-d10	244823	122412	489646	227231	-7.19
61 Phenanthrene-d10	398255	199128	796510	359688	-9.68
74 Chrysene-d12	356210	178105	712420	379527	6.55
81 Perylene-d12	326551	163276	653102	524615	60.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
10 1,4-Dichlorobenze	2.01	1.51	2.51	2.01	0.01
28 Naphthalene-d8	2.79	2.29	3.29	2.79	0.01
44 Acenaphthene-d10	3.85	3.35	4.35	3.85	0.01
61 Phenanthrene-d10	4.76	4.26	5.26	4.76	0.00
74 Chrysene-d12	6.57	6.07	7.07	6.58	0.05
81 Perylene-d12	7.71	7.21	8.21	7.71	0.08

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.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

XTRACTION ATE/TIME:	12-28-04 1000	BATCH NO:	285542
ATRIX:	WATER ☐ SOIL ☑ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	BN pH	Acid pH	COMMENTS	METHOD
QC ACCOUNT	MB for HBN 285542 [EXTO/6827]	214980	30.0	1.0				LIQUID LIQUID/3520
QC ACCOUNT	LCS for HBN 285542 [EXTO/6827]	214981	30.0	1.0				
QC ACCOUNT	LCSD for HBN 285542 [EXTO/6827	214982	30.0	1.0				SEPARATORY FUNNEL/3510
4380	001-NFF-BFC-S-1228-04	20412290201	30.0	1.0				
QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	214983	30.0	1.0				SONICATOR/3550 ✓
QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	214984	30.0	1.0				
								SOXHLET/3540
								GPC CLEANUP/3640
								WASTE DILUTION/3580
								TCLP EXTRACTION FLUID 1
								TCLP EXTRACTION FLUID 2
								MECL2/Acetone No: 1-76-1
								ACETONE LOT NO: 044762
								MeCL2 Lot No: 042721
								Sodium Sulfate Lot No: 044031

12-28-04 JPA

MMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF LVENT TO FINAL VOLUME

RROGATE ID	9-10-3	8270 SPIKE ID		625 SPIKE ID	9-9-8	TECHNICIAN	DATE
LUME	0.5ml	VOLUME		VOLUME	1.0ml	Dan Jones	12-28-04
NCENTRATION	100/200ug/ml	CONCENTRATION		CONCENTRATION			
OH		ACID				SUPERVISOR	DATE
IKE WITNESS	JCL					John Bailey	01/03/05

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
TDA 160	4-16-1	4-16-2 ~~4-15-14~~	In House	090705 4-16-2	800 uL ~~0.10g~~	10 mL	160 ppm ~~10,000 ppm~~	DCM 036929	jm3	090704	090705
200 TDA	4-16-2	4-15-10/4-15-11 4-16-12/4-15-13	In House	090705	200 uL 200 uL 200 uL 200 uL	10 mL	200 ppm	↓	↓	↓	↓
DFTPP	4-16-3	C491-05	NSI	C-491-05/ 10-05	1.0 mL	10 mL	50 ppm	DCM 036929	jm3	092104	092105
Dates 8-2-04 through 8-21-04 were reviewed by QA/QC DLH											
BNA 10	4-16-4	BNA 200 Q4235-A	NSI	041304-02 041305	50 uL	1.0 mL	10 ppm	DCM 041084	jm3	10-6-04	4-6-~~04~~ 05
50	4-16-5	↓	↓	↓	250 uL	↓	50	↓	↓	↓	DLH 10/28/04
80	4-16-6	↓	↓	↓	400 uL	↓	80	↓	↓	↓	↓
120	4-16-7	↓	↓	↓	600 uL	↓	120	↓	↓	↓	↓
160	4-16-8	↓	↓	↓	800 uL	↓	160	↓	↓	↓	↓
200	4-16-9	↓	↓	↓	1000 uL	↓	200	↓	↓	↓	↓
001	4-16-10	↓	↓	↓	5 uL	↓	1	↓	↓	↓	↓
0.2	4-16-11	↓	↓	↓	1 uL	↓	0.2	↓	↓	↓	↓
ICV 050	4-16-12	625 Spike BNA Surrog	↓	9-6-5 9/10/05 9-6-1 8/5	500 uL 500 uL	↓	50	—	↓	↓	8/5
Phenols Mix	4-16-13	2000 ug/mL Q-3442	NSI	092104-02 09/07	1.0 mL	10 mL	200 ppm	DCM 041084	jm3	10-11-04	09/07
Phols 10	4-16-14	4-16-13	In House	↓	50 uL	1.0 mL	10	↓	↓	↓	04-11-05
50	4-16-15	↓	↓	↓	250 uL	↓	50	↓	↓	↓	↓
80	4-16-16	↓	↓	↓	400 uL	↓	80	↓	↓	↓	↓
120	4-16-17	↓	↓	↓	600 uL	↓	120	↓	↓	↓	↓

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 27-DEC-2004
Instrument: MSSV1.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	4-16-3	a8554.d	0.00 ml	27-DEC-2004 08:17	1.000	1	
1100	4-16-3	a8554c.d	0.00 ml	27-DEC-2004 08:17	1.000	1	
1202	4-16-5	a8555.d	1000.00 ml	27-DEC-2004 08:55	1.000	2	
1201	4-16-4	a8556.d	30.00 g	27-DEC-2004 09:15	1.000	3	
1203	4-16-6	a8557.d	30.00 g	27-DEC-2004 09:35	1.000	4	
1205	4-16-7	a8558.d	30.00 g	27-DEC-2004 10:23	1.000	5	
1204	4-16-8	a8559.d	30.00 g	27-DEC-2004 10:40	1.000	6	
1206	4-16-9	a8560.d	30.00 g	27-DEC-2004 11:00	1.000	7	
1207	4-16-10	a8561.d	30.00 g	27-DEC-2004 11:17	1.000	8	
1208	4-16-11	a8562.d	30.00 g	27-DEC-2004 11:35	1.000	9	
ICV050	4-16-12	a8563.d	1000.00 ml	27-DEC-2004 11:53	1.000	10	
241417	BLK	a8564.d	30.00 g	27-DEC-2004 12:13	1.000	18	
241418	LCS	a8565.d	30.00 g	27-DEC-2004 12:31	1.000	19	
241419	LCSD	a8566.d	30.00 g	27-DEC-2004 12:49	1.000	20	
214599	BLK	a8567.d	1000.00 ml	27-DEC-2004 13:07	1.000	30	
214600	LCS	a8568.d	1000.00 ml	27-DEC-2004 13:24	1.000	31	
214601	LCSD	a8569.d	1000.00 ml	27-DEC-2004 13:43	1.000	32	
20412223615	4188	a8570.d	1000.00 ml	27-DEC-2004 14:00	1.000	33	
20412232001	4409	a8571.d	1000.00 ml	27-DEC-2004 14:17	1.000	34	
214074	MSD	a8572.d	1.00 g	27-DEC-2004 14:35	10.000	11	
213887	MSD	a8573.d	30.00 g	27-DEC-2004 14:54	1.000	12	
20412210202	4271	a8574.d	30.00 g	27-DEC-2004 15:11	1.000	13	
20412211506	4382	a8575.d	30.00 g	27-DEC-2004 15:29	1.000	14	
20412210204	4271	a8576.d	30.00 g	27-DEC-2004 15:47	1.000	15	
214623	BLK	a8577.d	1000.00 ml	27-DEC-2004 16:04	1.000	35	
214624	LCS	a8578.d	1000.00 ml	27-DEC-2004 16:22	1.000	36	
20412222201	4372	a8579.d	1000.00 ml	27-DEC-2004 16:40	1.000	37	
20412222301	4372	a8580.d	1000.00 ml	27-DEC-2004 16:57	1.000	38	
20412210203	4271	a8581.d	30.00 g	27-DEC-2004 17:15	1.000	29	
20412210205	4271	a8582.d	30.00 g	27-DEC-2004 17:33	1.000	16	
20412210207	4271	a8583.d	30.00 g	27-DEC-2004 17:50	1.000	17	
20412223601	4188	a8584.d	30.00 g	27-DEC-2004 18:08	1.000	21	
20412223602	4188	a8585.d	30.00 g	27-DEC-2004 18:26	1.000	22	
20412223603	4188	a8586.d	30.00 g	27-DEC-2004 18:43	1.000	23	
20412223604	4188	a8587.d	30.00 g	27-DEC-2004 19:01	1.000	24	
20412223605	4188	a8588.d	30.00 g	27-DEC-2004 19:19	1.000	25	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 27-DEC-2004
Instrument: MSSV1.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
20412223607	4188	a8589.d	30.00 g	27-DEC-2004 19:38	1.000	26	
20412223608	4188	a8590.d	30.00 g	27-DEC-2004 19:55	1.000	27	
20412223609	4188	a8591.d	30.00 g	27-DEC-2004 20:14	2.000	28	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 03-JAN-2005
Instrument: MSSV1.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	4-16-3	a8616.d	0.00 ml	03-JAN-2005 09:42	1.000	1	
1100	4-16-3	a8616c.d	0.00 ml	03-JAN-2005 09:42	1.000	1	
1400	4-16-5	a8617.d	1000.00 ml	03-JAN-2005 09:58	1.000	2	
1400	4-14-13	a8618.d	1000.00 ml	03-JAN-2005 10:16	1.000	3	
20412223609	4188	a8619.d	30.00 g	03-JAN-2005 10:35	10.000	4	
214980	BLK	a8620.d	30.00 g	03-JAN-2005 10:52	1.000	5	
20412223609	4188	a8621.d	30.00 g	03-JAN-2005 11:09	20.000	4	
214981	LCS	a8622.d	30.00 g	03-JAN-2005 11:26	1.000	6	
214982	LCSD	a8623.d	30.00 g	03-JAN-2005 11:44	1.000	7	
20412290201	4380	a8624.d	30.00 g	03-JAN-2005 12:02	1.000	8	
214983	MS	a8625.d	30.00 g	03-JAN-2005 12:21	1.000	9	
214984	MSD	a8626.d	30.00 g	03-JAN-2005 12:39	1.000	10	
20412300201	4328	a8627.d	30.00 g	03-JAN-2005 12:57	10.000	29	
215222	BLK	a8628.d	1000.00 ml	03-JAN-2005 13:16	1.000	11	
215223	LCS	a8629.d	1000.00 ml	03-JAN-2005 13:34	1.000	12	
215224	LCSD	a8630.d	1000.00 ml	03-JAN-2005 14:54	1.000	13	
20412300208	4328	a8631.d	1000.00 ml	03-JAN-2005 14:10	1.000	14	
20412300501	4455	a8632.d	1000.00 ml	03-JAN-2005 14:28	1.000	15	
20412300501	4455	a8633.d	1000.00 ml	03-JAN-2005 15:11	50.000	15	
20412300502	4455	a8634.d	1000.00 ml	03-JAN-2005 15:28	50.000	16	
20412300503	4455	a8635.d	1000.00 ml	03-JAN-2005 21:20	50.000	17	
20412300504	4455	a8636.d	1000.00 ml	03-JAN-2005 21:38	1.000	18	
20412300505	4455	a8637.d	1000.00 ml	03-JAN-2005 21:55	1.000	19	
20412300506	4455	a8638.d	1000.00 ml	03-JAN-2005 22:13	50.000	20	
215158	BLK	a8639.d	1000.00 ml	03-JAN-2005 15:46	1.000	21	
215159	LCS	a8640.d	1000.00 ml	03-JAN-2005 16:04	1.000	22	
20412292201	4372	a8641.d	1000.00 ml	03-JAN-2005 16:21	1.000	23	
20412292301	4372	a8642.d	1000.00 ml	03-JAN-2005 16:39	1.000	24	
20412302001	4372	a8643.d	1000.00 ml	03-JAN-2005 16:57	1.000	25	
215378	BLK	a8644.d	30.00 g	03-JAN-2005 17:16	1.000	26	
215379	LCS	a8645.d	30.00 g	03-JAN-2005 17:33	1.000	27	
215380	LCSD	a8646.d	30.00 g	03-JAN-2005 17:51	1.000	28	
20412300202	4328	a8647.d	30.00 g	03-JAN-2005 18:08	10.000	30	
20412300203	4328	a8648.d	30.00 g	03-JAN-2005 18:26	10.000	31	
20412300204	4328	a8649.d	30.00 g	03-JAN-2005 18:44	10.000	32	
20412300205	4328	a8650.d	30.00 g	03-JAN-2005 19:01	10.000	33	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 03-JAN-2005
Instrument: MSSV1.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
20412300206	4328	a8651.d	30.00 g	03-JAN-2005 19:18	10.000	34	
20412300201	4328	a8652.d	30.00 g	03-JAN-2005 19:35	1.000	35	
20412300202	4328	a8653.d	30.00 g	03-JAN-2005 19:53	1.000	36	
20412300203	4328	a8654.d	30.00 g	03-JAN-2005 20:11	1.000	37	
20412300204	4328	a8655.d	30.00 g	03-JAN-2005 20:28	1.000	38	
20412300205	4328	a8656.d	30.00 g	03-JAN-2005 20:45	1.000	39	
20412300206	4328	a8657.d	30.00 g	03-JAN-2005 21:03	1.000	40	

REVISED 6-1-95 Supervisor Review: QA Review:

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

GC Column (1) : RTX-50-30M ID: .53 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8082

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 001-NFF-BFC-S-1228-04	77								0
2. MB214975	101								0
3. LCS214976	121								0
4. LCSD214977	124								0
5. 001-NFF-BFC-S-122...MS	87								0
6. 001-NFF-BFC-S-12...MSD	87								0

CONTROL LIMITS

SMC 1 : Decachlorobiphenyl 56 159

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8082

Prep Batch: 285541 Analytical Batch: 285640

Spike HSN : 214978

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	150	0	118	79		40 - 154
Aroclor-1260	ug/kg	150	0	114	76		40 - 168

Spike Dupe HSN : 214979

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	150	119	80		.9		40 - 154	0 - 43
Aroclor-1260	ug/kg	150	123	82		8		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8082

Prep Batch: 285541 Analytical Batch: 285640

Spike HSN : 214976

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	133	0	130	98		62 - 124
Aroclor-1260	ug/kg	133	0	143	107		62 - 129

Spike Dupe HSN : 214977

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	133	133	100		2		62 - 124	0 - 31
Aroclor-1260	ug/kg	133	156	117		9		62 - 129	0 - 36

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab Sample ID: 214975

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Analyzed (1): 12/31/04 Time (1): 0059

Instrument ID (1): GCS11B

GC Column (1): RTX-50-30M ID: .53 (mm)

Method: SW-846 8082

Lab File ID: 2041229/SV1103

Sample ID: MB214975

Contract:

SAS No.: SDG No.: 204122902

Date Extracted: 12/29/04

Date Analyzed (2): Time (2):

Instrument ID (2):

GC Column (2): ID: (mm)

Prep Batch: 285541 Analytical Batch: 285640

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS214976	214976	12/31/04	0234		
2.	LCSD214977	214977	12/31/04	0306		
3.	001-NFF-BFC-S-1228-04	20412290201	12/31/04	0338		
4.	001-NFF-BFC-S-122...MS	214978	12/31/04	0513		
5.	001-NFF-BFC-S-12...MSD	214979	12/31/04	0544		

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 11 decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285541 Analytical Batch: 285640

Sample ID: 001-NFF-BFC-S-1228-04
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 20412290201
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0338
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11035

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	45.0	U	3.39	45.0
11104-28-2	Aroclor-1221	45.0	U	10.3	45.0
11141-16-5	Aroclor-1232	45.0	U	11.3	45.0
53469-21-9	Aroclor-1242	45.0	U	13.2	45.0
12672-29-6	Aroclor-1248	45.0	U	8.78	45.0
11097-69-1	Aroclor-1254	45.0	U	7.30	45.0
11096-82-5	Aroclor-1260	45.0	U	3.39	45.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11035.d
Lab Smp Id: 20412290201
Inj Date : 31-DEC-2004 03:38
Operator : tls Inst ID: gcsv11.i
Smp Info : 20412290201-1.0-GCSV~45XX~-204122902--4380 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 35
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

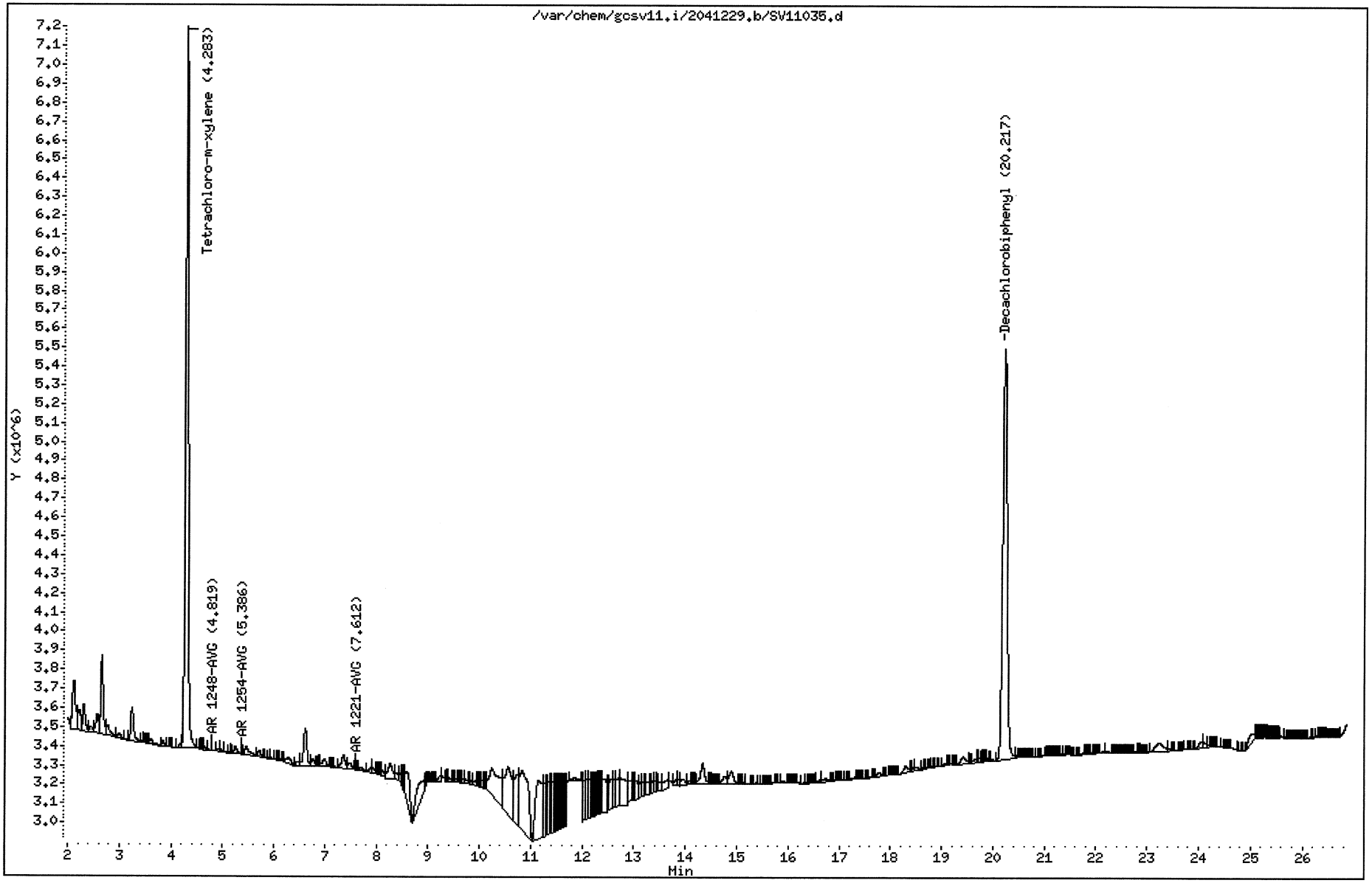
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.283	0.000	13694576	37.8814	12.6271
$ 22 Decachlorobiphenyl	20.217	20.216	0.001	12350262	38.3362	12.7787

Data File: /var/chem/gcsv11.i/2041229.b/SV11035.d
Date : 31-DEC-2004 03:38
Client ID:
Sample Info: 20412290201-1.0-GCSV^45XX^-204122902--4380 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000445



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 02-Jan-2005 15:25 tls
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv11.i/2041229.b/SV11021.d
Level 2: /var/chem/gcsv11.i/2041229.b/SV11022.d
Level 3: /var/chem/gcsv11.i/2041229.b/SV11023.d
Level 4: /var/chem/gcsv11.i/2041229.b/SV11024.d
Level 5: /var/chem/gcsv11.i/2041229.b/SV11028.d

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	516482	488368	616801	535716	506189	532711	9.392
	3 gamma-BHC (Lindane)	486592	440391	545700	466503	439976	475832	9.176
	4 Heptachlor	434555	361605	437994	373282	350939	391675	10.593
	5 Aldrin	498937	436260	400584	480349	469689	457164	8.526
	6 beta-BHC	303983	259811	217248	253911	244031	255797	12.310
	7 delta-BHC	493414	455655	433381	522720	514587	483952	7.929
	8 Heptachlor epoxide	499022	414971	365056	432323	419067	426088	11.290
	9 Endosulfan I	371686	332523	417522	354322	347080	364627	8.984
	10 gamma-Chlordane	497434	417600	375667	448482	438947	435626	10.212
	11 alpha-Chlordane	531311	439978	390704	464265	450882	455428	11.134
	12 4,4'-DDE	416132	372289	338888	405242	392992	385109	7.930
	13 Dieldrin	369722	330934	406862	325939	313048	349301	11.021
	14 Endrin	338282	282539	346262	283245	265117	303089	12.078
	15 4,4'-DDD	259031	242191	306400	241131	226252	255001	12.152
	16 Endosulfan II	389624	325991	286484	341482	331604	335037	11.040
	17 4,4'-DDT	273502	237739	305639	243192	225430	257100	12.598
	18 Endrin aldehyde	259840	204715	177073	201889	203709	209445	14.521
	19 Endosulfan sulfate	356759	292802	260564	311703	303705	305106	11.411
	20 Methoxychlor	157435	124909	137004	106617	96489	124491	19.452
	21 Endrin ketone	376509	315769	279507	332351	323902	325608	10.707
M	23 AR 1016-AVG	66426	65996	61335	58304	54542	61320	8.274
	24 AR 1016-PEAK1	7249	7247	7335	6954	6533	7064	4.673
	25 AR 1016-PEAK2	15650	15717	14649	13623	12413	14410	9.759
	26 AR 1016-PEAK3	31991	32456	29094	27669	25976	29437	9.436
	27 AR 1016-PEAK4	11536	10575	10258	10058	9620	10409	6.903
M	28 AR 1260-AVG	125729	132720	123177	114756	109587	121194	7.535

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 02-Jan-2005 15:25 tls
Curve Type : Average

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
	29 AR 1260-PEAK1	23681	23614	22320	19987	18916	21704	9.952
	30 AR 1260-PEAK2	26713	26341	24348	22223	20802	24085	10.650
	31 AR 1260-PEAK3	38804	41571	38666	36591	35178	38162	6.373
	32 AR 1260-PEAK4	36530	41194	37844	35956	34691	37243	6.665
M	33 AR 1221-AVG	+++++	+++++	11114	+++++	+++++	11114	0.000
	34 AR 1221-PEAK1	+++++	+++++	1006	+++++	+++++	1006	0.000
	35 AR 1221-PEAK2	+++++	+++++	2564	+++++	+++++	2564	0.000
	36 AR 1221-PEAK3	+++++	+++++	1827	+++++	+++++	1827	0.000
	37 AR 1221-PEAK4	+++++	+++++	5717	+++++	+++++	5717	0.000
M	38 AR 1232-AVG	+++++	+++++	29176	+++++	+++++	29176	0.000
	39 AR 1232-PEAK1	+++++	+++++	6630	+++++	+++++	6630	0.000
	40 AR 1232-PEAK2	+++++	+++++	6151	+++++	+++++	6151	0.000
	41 AR 1232-PEAK3	+++++	+++++	12328	+++++	+++++	12328	0.000
	42 AR 1232-PEAK4	+++++	+++++	4066	+++++	+++++	4066	0.000
M	43 AR 1242-AVG	+++++	+++++	46773	+++++	+++++	46773	0.000
	44 AR 1242-PEAK1	+++++	+++++	5461	+++++	+++++	5461	0.000
	45 AR 1242-PEAK2	+++++	+++++	9800	+++++	+++++	9800	0.000
	46 AR 1242-PEAK3	+++++	+++++	23197	+++++	+++++	23197	0.000
	47 AR 1242-PEAK4	+++++	+++++	8315	+++++	+++++	8315	0.000
M	48 AR 1248-AVG	+++++	+++++	48576	+++++	+++++	48576	0.000
	49 AR 1248-PEAK1	+++++	+++++	5947	+++++	+++++	5947	0.000
	50 AR 1248-PEAK2	+++++	+++++	15390	+++++	+++++	15390	0.000
	51 AR 1248-PEAK3	+++++	+++++	12254	+++++	+++++	12254	0.000
	52 AR 1248-PEAK4	+++++	+++++	14986	+++++	+++++	14986	0.000
M	53 AR 1254-AVG	+++++	+++++	57931	+++++	+++++	57931	0.000
	54 AR 1254-PEAK1	+++++	+++++	6624	+++++	+++++	6624	0.000
	55 AR 1254-PEAK2	+++++	+++++	6207	+++++	+++++	6207	0.000
	56 AR 1254-PEAK3	+++++	+++++	24908	+++++	+++++	24908	0.000
	57 AR 1254-PEAK4	+++++	+++++	20192	+++++	+++++	20192	0.000
M	58 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	33456	33456	0.000
	59 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	5786	5786	0.000
	60 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	10971	10971	0.000
	61 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	10043	10043	0.000

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 02-Jan-2005 15:25 tls
Curve Type : Average

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	62 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	6656	6656	0.000
M	63 CHLORDANE-AVG	+++++	+++++	+++++	+++++	1144273	1144273	0.000
	64 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	158162	158162	0.000
	65 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	179861	179861	0.000
	66 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	382062	382062	0.000
	67 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	424188	424188	0.000
	68 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 Diallate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	425166	359271	382857	332352	307911	361512	12.552
$	22 Decachlorobiphenyl	403425	331938	357885	273732	243802	322156	19.913

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 02-Jan-2005 15:25 tls
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 10.4731063                 |
|Maximun Average %RSD    =         20                |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11003.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 11:16
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~4561~-63*15*2 AR 1221
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1221.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

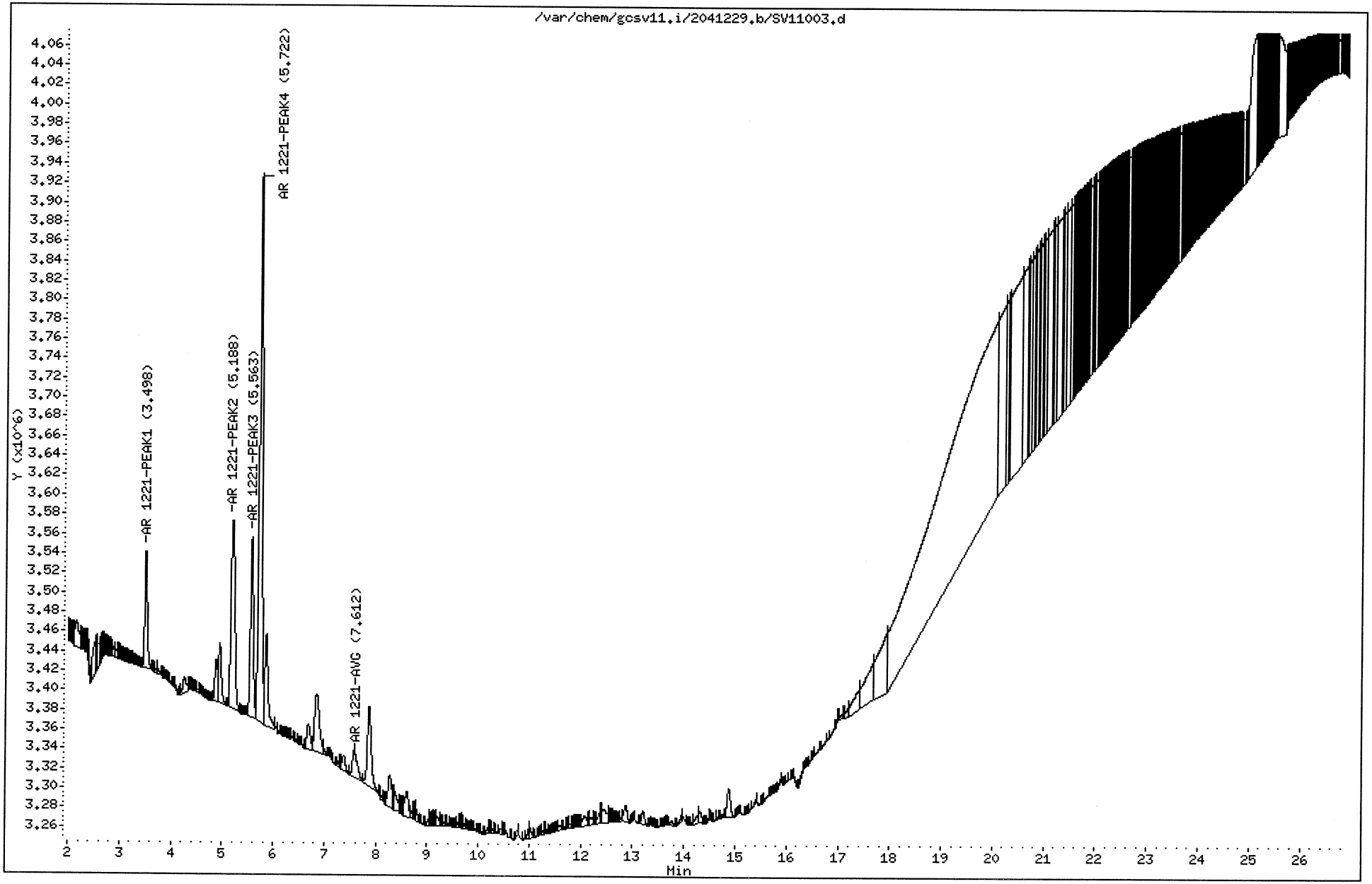
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 33 AR 1221-AVG				4445755	400.000	400.0000
34 AR 1221-PEAK1	3.498	3.498	0.000	402579	400.000	400.0000
35 AR 1221-PEAK2	5.188	5.188	0.000	1025500	400.000	400.0000
36 AR 1221-PEAK3	5.563	5.563	0.000	730980	400.000	400.0000
37 AR 1221-PEAK4	5.722	5.722	0.000	2286696	400.000	400.0000

Data File: /var/chem/gcsv11.i/2041229.b/SV11003.d
Date : 29-DEC-2004 11:16
Client ID:
Sample Info: 1203-1.0-GCSV^4561^-63*15*2 AR 1221
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000451



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11004.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 11:47
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*15*3 AR 1232
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1232.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

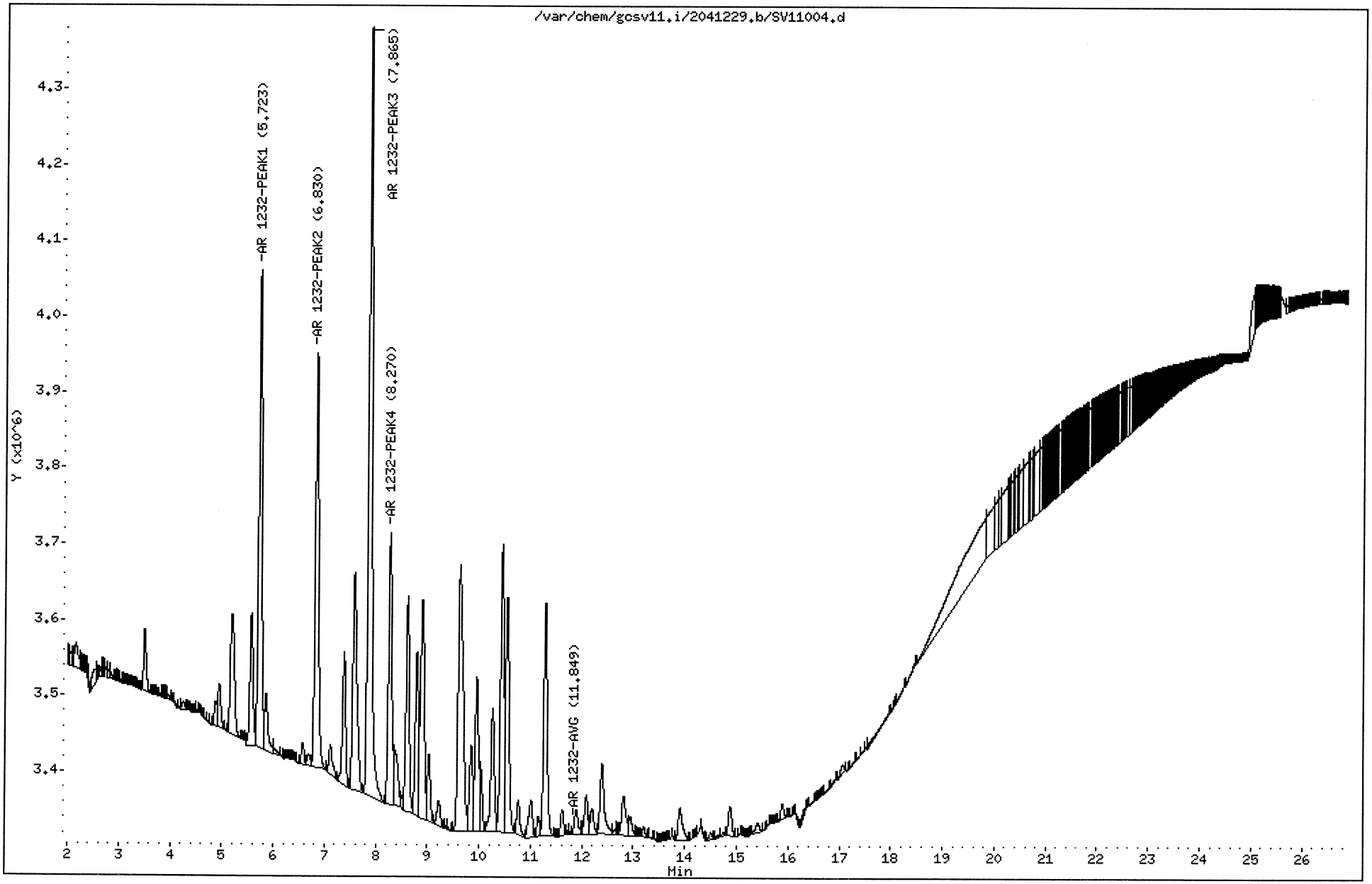
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 38 AR 1232-AVG				11670318	400.000	400.0000
39 AR 1232-PEAK1	5.723	5.723	0.000	2651956	400.000	400.0000
40 AR 1232-PEAK2	6.830	6.830	0.000	2460552	400.000	400.0000
41 AR 1232-PEAK3	7.865	7.865	0.000	4931337	400.000	400.0000
42 AR 1232-PEAK4	8.270	8.270	0.000	1626473	400.000	400.0000

Data File: /var/chem/gcsv11.i/2041229.b/SV11004.d
Date : 29-DEC-2004 11:47
Client ID:
Sample Info: 1203-1.0-GCSV"42XX"-63*15*3 AR 1232
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000453



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11005.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 12:19
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*15*4 AR 1242
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1242.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

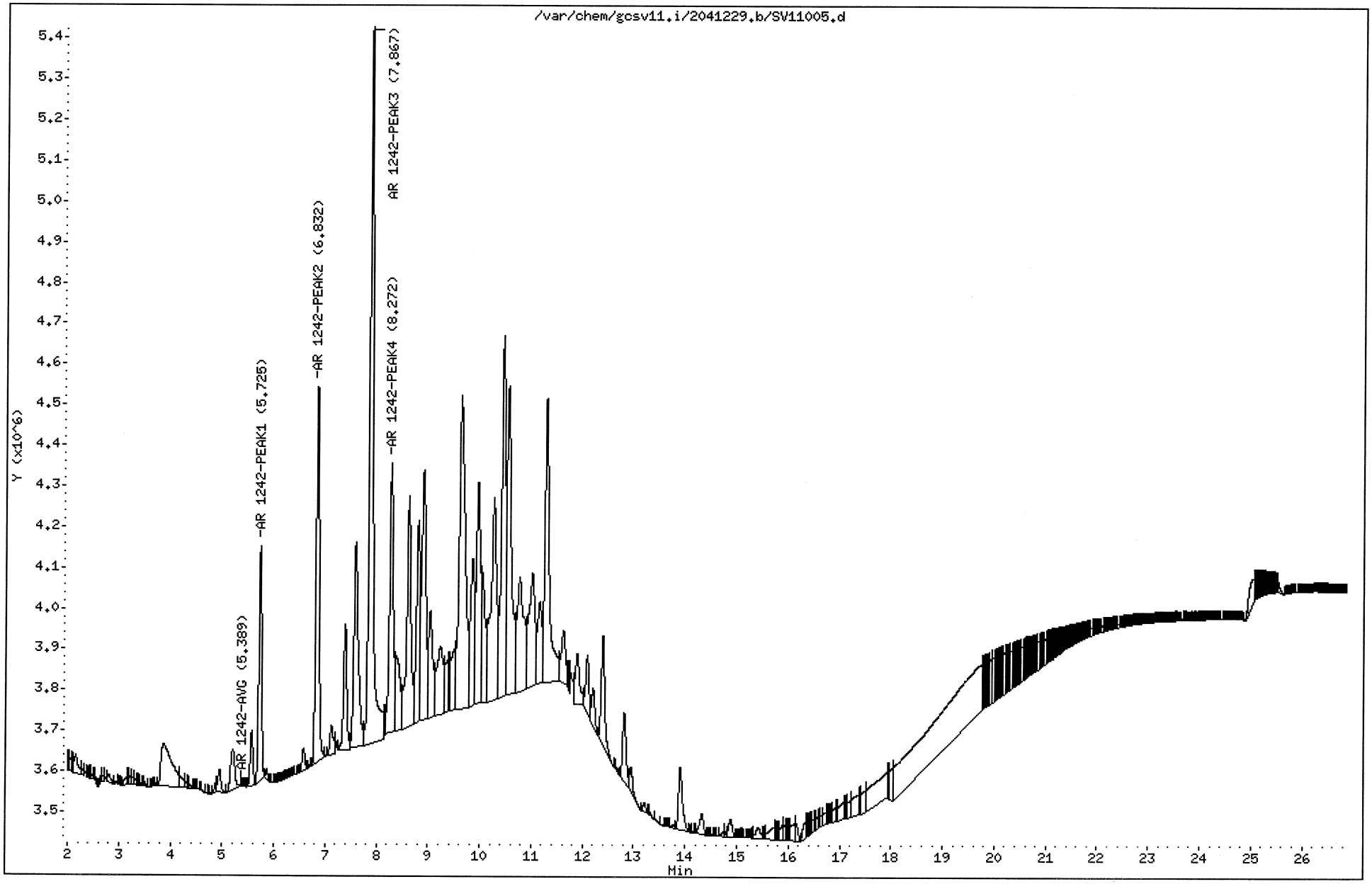
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 43 AR 1242-AVG				18709331	400.000	400.0000
44 AR 1242-PEAK1	5.725	5.725	0.000	2184374	400.000	400.0000
45 AR 1242-PEAK2	6.832	6.832	0.000	3919940	400.000	400.0000
46 AR 1242-PEAK3	7.867	7.867	0.000	9278949	400.000	400.0000
47 AR 1242-PEAK4	8.272	8.272	0.000	3326068	400.000	400.0000

Data File: /var/chem/gcsv11.i/2041229.b/SV11005.d
Date : 29-DEC-2004 12:19
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63*15*4 AR 1242
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000455



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11006.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 13:06
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*15*5 AR 1248
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1248.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

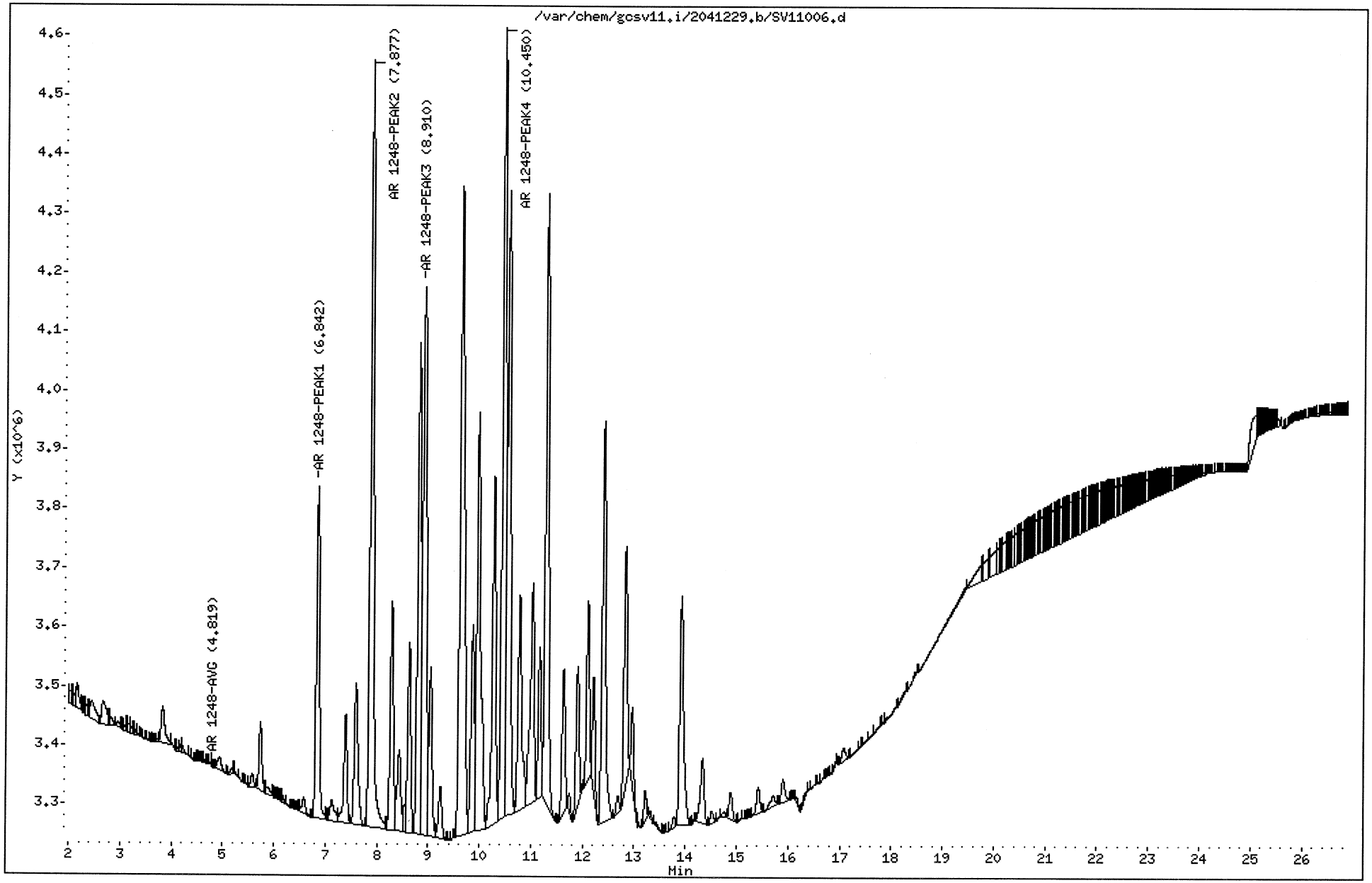
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 48 AR 1248-AVG				19430339	400.000	400.0000
49 AR 1248-PEAK1	6.842	6.842	0.000	2378607	400.000	400.0000
50 AR 1248-PEAK2	7.877	7.877	0.000	6155969	400.000	400.0000
51 AR 1248-PEAK3	8.910	8.910	0.000	4901447	400.000	400.0000
52 AR 1248-PEAK4	10.450	10.450	0.000	5994316	400.000	400.0000

Data File: /var/chem/gcsv11.i/2041229.b/SV11006.d
Date : 29-DEC-2004 13:06
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63x15x5 AR 1248
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000457



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11007.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 13:37
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*15*6 AR 1254
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1254.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

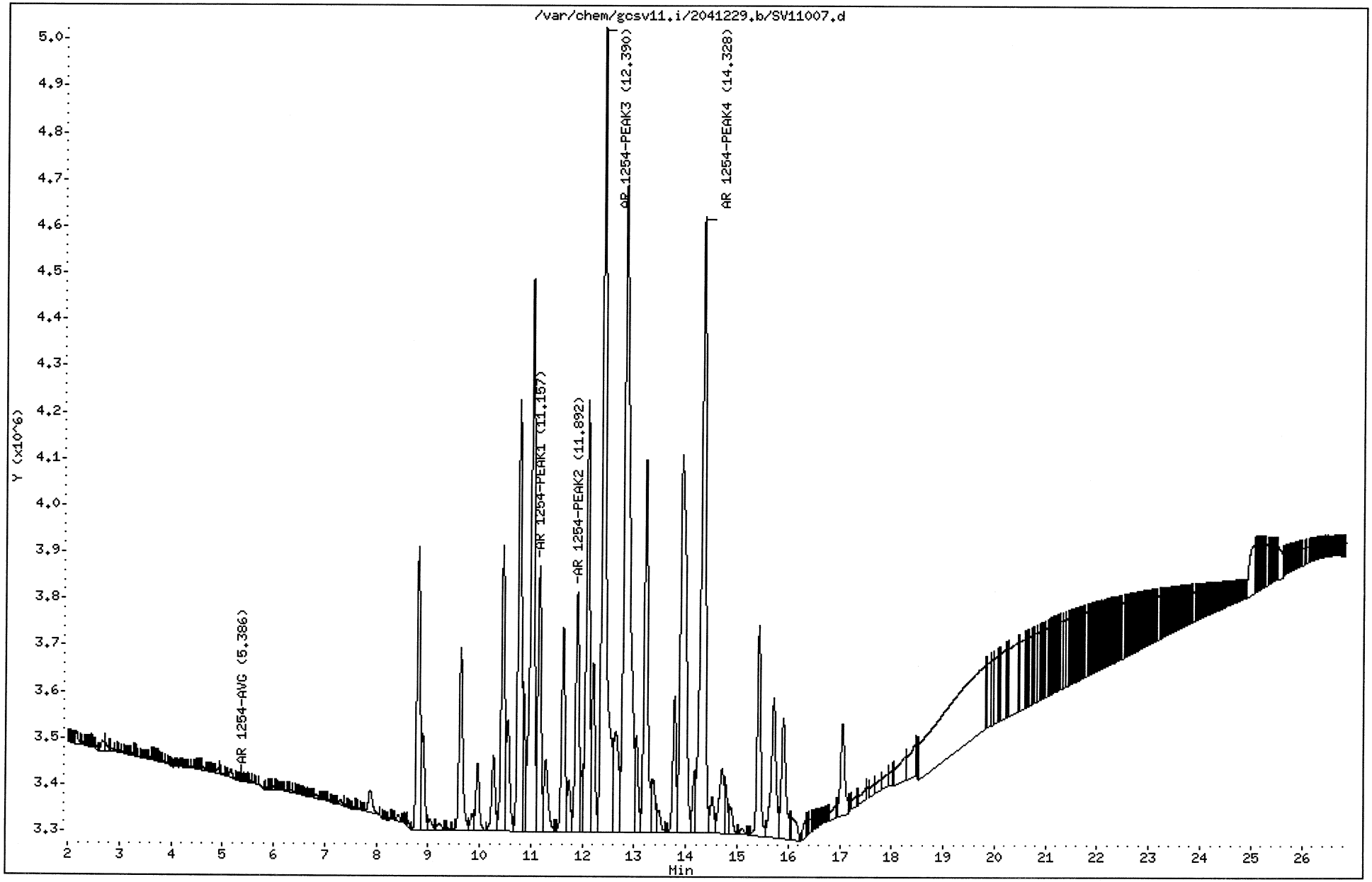
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 53 AR 1254-AVG				23172588	400.000	400.0000
54 AR 1254-PEAK1	11.157	11.157	0.000	2649744	400.000	400.0000
55 AR 1254-PEAK2	11.892	11.892	0.000	2482970	400.000	400.0000
56 AR 1254-PEAK3	12.390	12.390	0.000	9963242	400.000	400.0000
57 AR 1254-PEAK4	14.328	14.328	0.000	8076632	400.000	400.0000

Data File: /var/chem/gcsv11.i/2041229.b/SV11007.d
Date : 29-DEC-2004 13:37
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63*15*6 AR 1254
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000459



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11008.d
Lab Smp Id: 1201
Inj Date : 29-DEC-2004 17:29
Operator : tls Inst ID: gcsv11.i
Smp Info : 1201-1.0-GCSV~42XX~-63*14*8 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 20:14 Cal File: SV11021.d
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

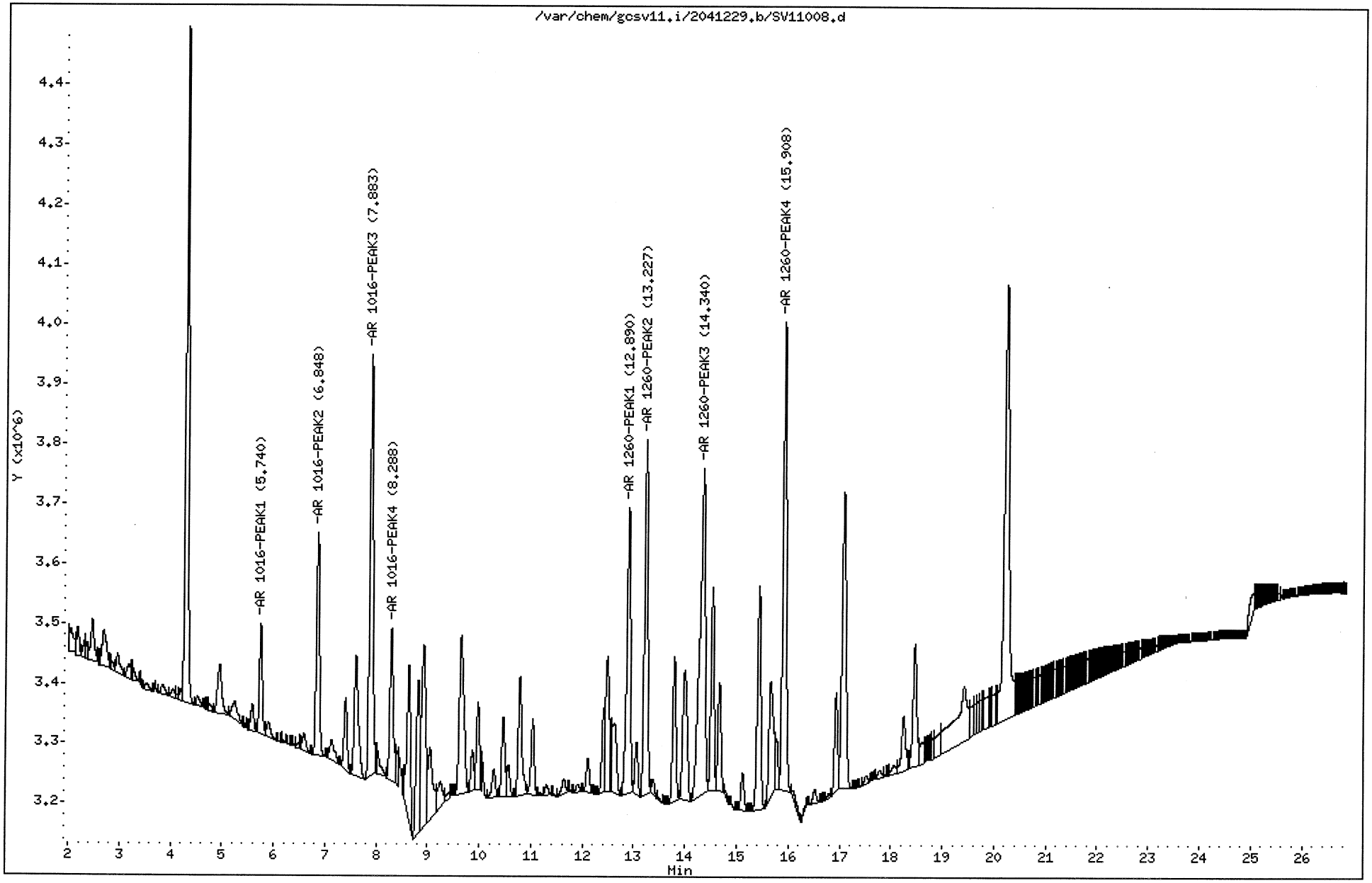
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				6642602	100.000	108.3260
24 AR 1016-PEAK1	5.740	5.733	0.007	724941	100.000	102.6313
25 AR 1016-PEAK2	6.848	6.839	0.009	1564962	100.000	108.6003
26 AR 1016-PEAK3	7.883	7.876	0.007	3199139	100.000	108.6756
27 AR 1016-PEAK4	8.288	8.281	0.007	1153560	100.000	110.8218
M 28 AR 1260-AVG				12572860	100.000	103.7418
29 AR 1260-PEAK1	12.890	12.883	0.007	2368135	100.000	109.1123
30 AR 1260-PEAK2	13.227	13.220	0.007	2671334	100.000	110.9115
31 AR 1260-PEAK3	14.340	14.333	0.007	3880365	100.000	101.6817
32 AR 1260-PEAK4	15.908	15.903	0.005	3653026	100.000	98.0862

Data File: /var/chem/gcsv11.i/2041229.b/SV11008.d
Date : 29-DEC-2004 17:29
Client ID:
Sample Info: 1201-1.0-GCSV^42XX^-63*14*8 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000461



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11009.d
Lab Smp Id: 1202
Inj Date : 29-DEC-2004 18:01
Operator : tls Inst ID: gcsv11.i
Smp Info : 1202-1.0-GCSV~42XX~-63*16*8 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

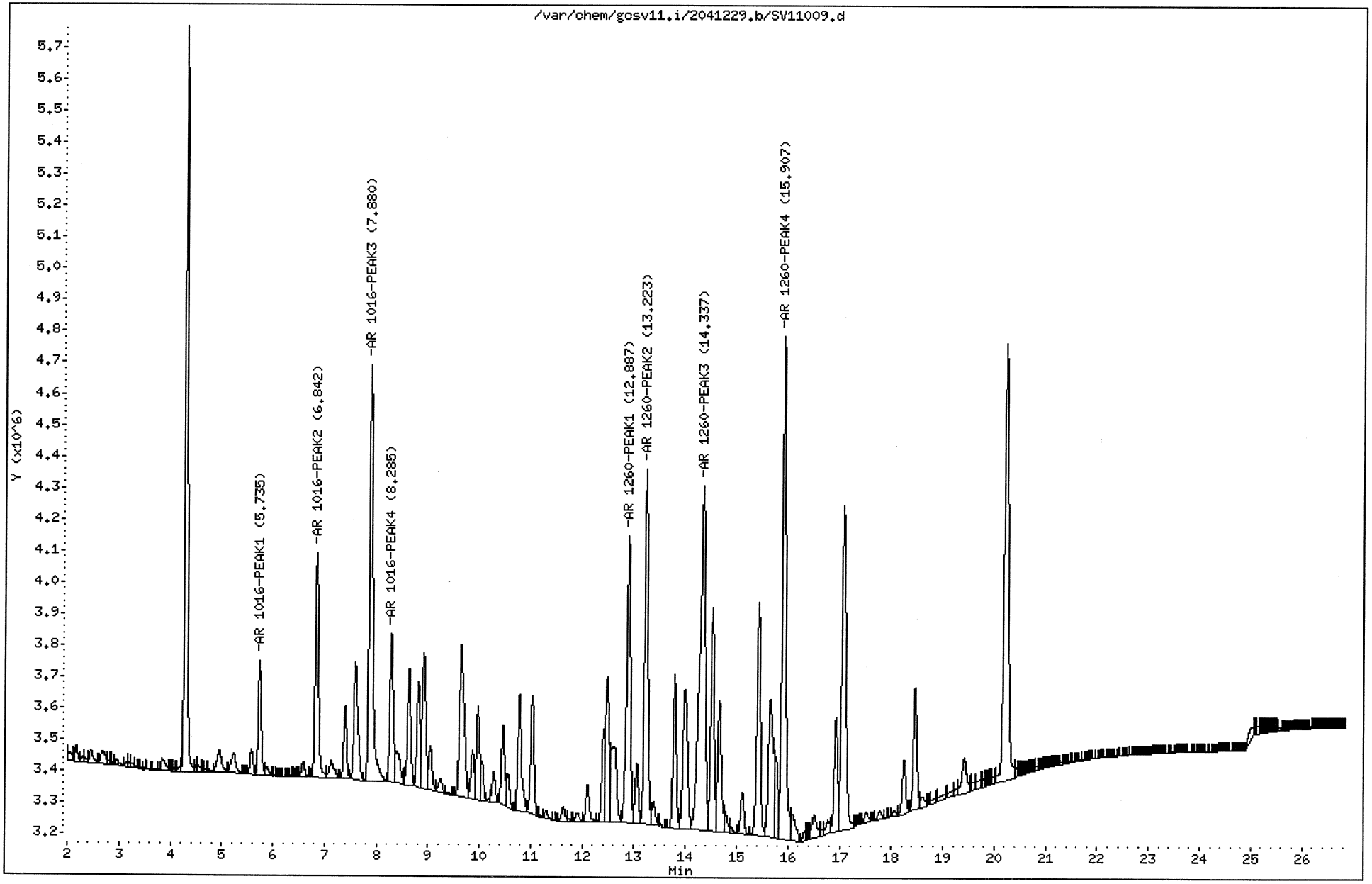
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				13199111	200.000	215.2480
24 AR 1016-PEAK1	5.735	5.733	0.002	1449495	200.000	205.2078
25 AR 1016-PEAK2	6.842	6.839	0.003	3143384	200.000	218.1348
26 AR 1016-PEAK3	7.880	7.876	0.004	6491299	200.000	220.5112
27 AR 1016-PEAK4	8.285	8.281	0.004	2114933	200.000	203.1803
M 28 AR 1260-AVG				26544018	200.000	219.0213
29 AR 1260-PEAK1	12.887	12.883	0.004	4722879	200.000	217.6076
30 AR 1260-PEAK2	13.223	13.220	0.003	5268219	200.000	218.7321
31 AR 1260-PEAK3	14.337	14.333	0.004	8314171	200.000	217.8659
32 AR 1260-PEAK4	15.907	15.903	0.004	8238749	200.000	221.2161

Data File: /var/chem/gcsv11.i/2041229.b/SV11009.d
Date : 29-DEC-2004 18:01
Client ID:
Sample Info: 1202-1.0-GCSV~42XX~-63x16x8 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000463



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11010.d
Lab Smp Id: 1203
Inj Date : 29-DEC-2004 18:33
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*16*8 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 10 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

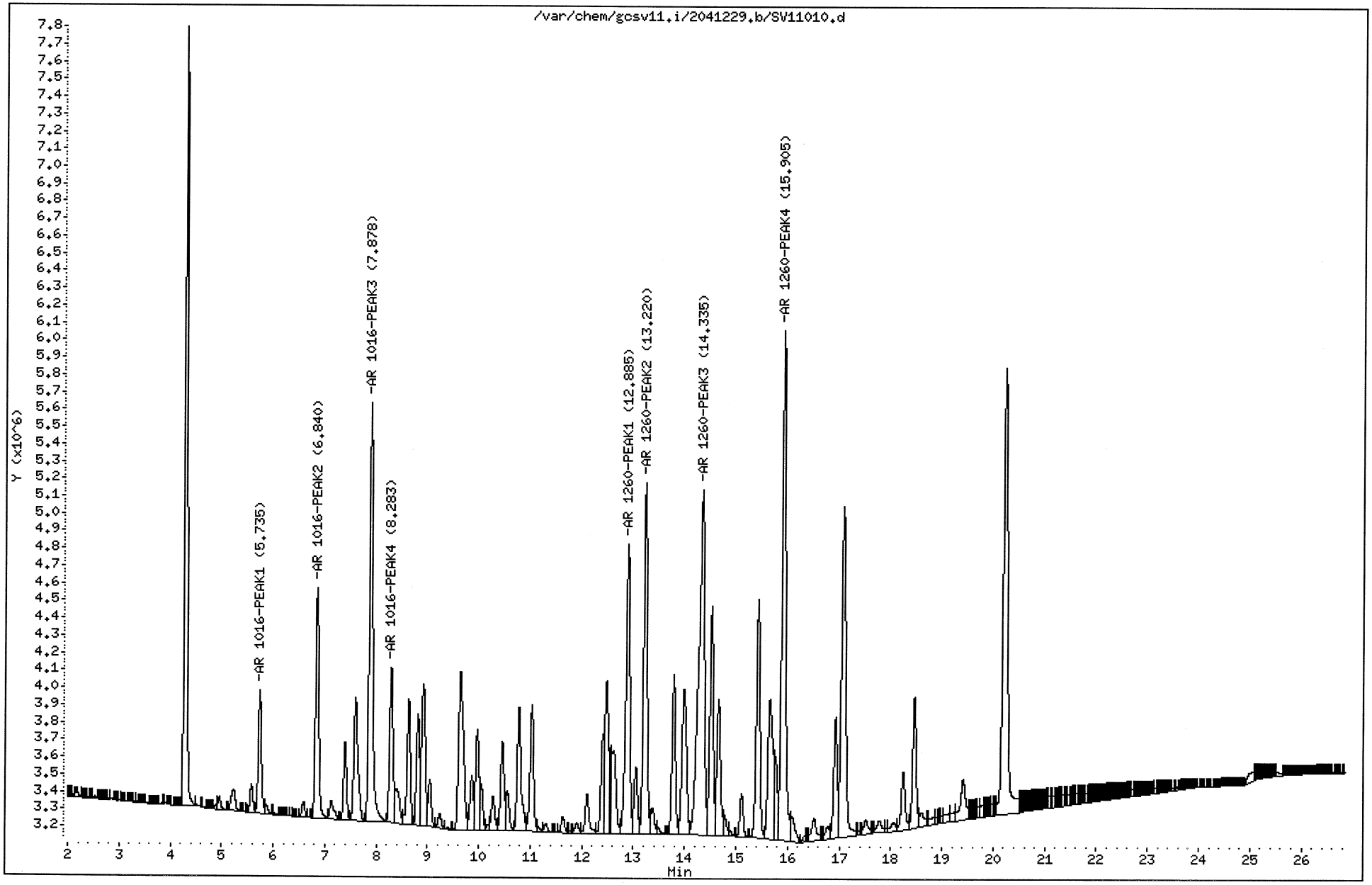
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				24534144	400.000	400.0971
24 AR 1016-PEAK1	5.735	5.733	0.002	2933834	400.000	415.3486
25 AR 1016-PEAK2	6.840	6.839	0.001	5859705	400.000	406.6336
26 AR 1016-PEAK3	7.878	7.876	0.002	11637574	400.000	395.3316
27 AR 1016-PEAK4	8.283	8.281	0.002	4103031	400.000	394.1756
M 28 AR 1260-AVG				49270997	400.000	406.5473
29 AR 1260-PEAK1	12.885	12.883	0.002	8927895	400.000	411.3545
30 AR 1260-PEAK2	13.220	13.220	0.000	9739061	400.000	404.3577
31 AR 1260-PEAK3	14.335	14.333	0.002	15466374	400.000	405.2835
32 AR 1260-PEAK4	15.905	15.903	0.002	15137667	400.000	406.4569

Data File: /var/chem/gcsv11.i/2041229.b/SV11010.d
Date : 29-DEC-2004 18:33
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63x16x8 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000465



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11011.d
Lab Smp Id: 1204
Inj Date : 29-DEC-2004 19:04
Operator : tls Inst ID: gcsv11.i
Smp Info : 1204-1.0-GCSV~42XX~-63*14*8 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:49 Cal File: SV11024.d
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

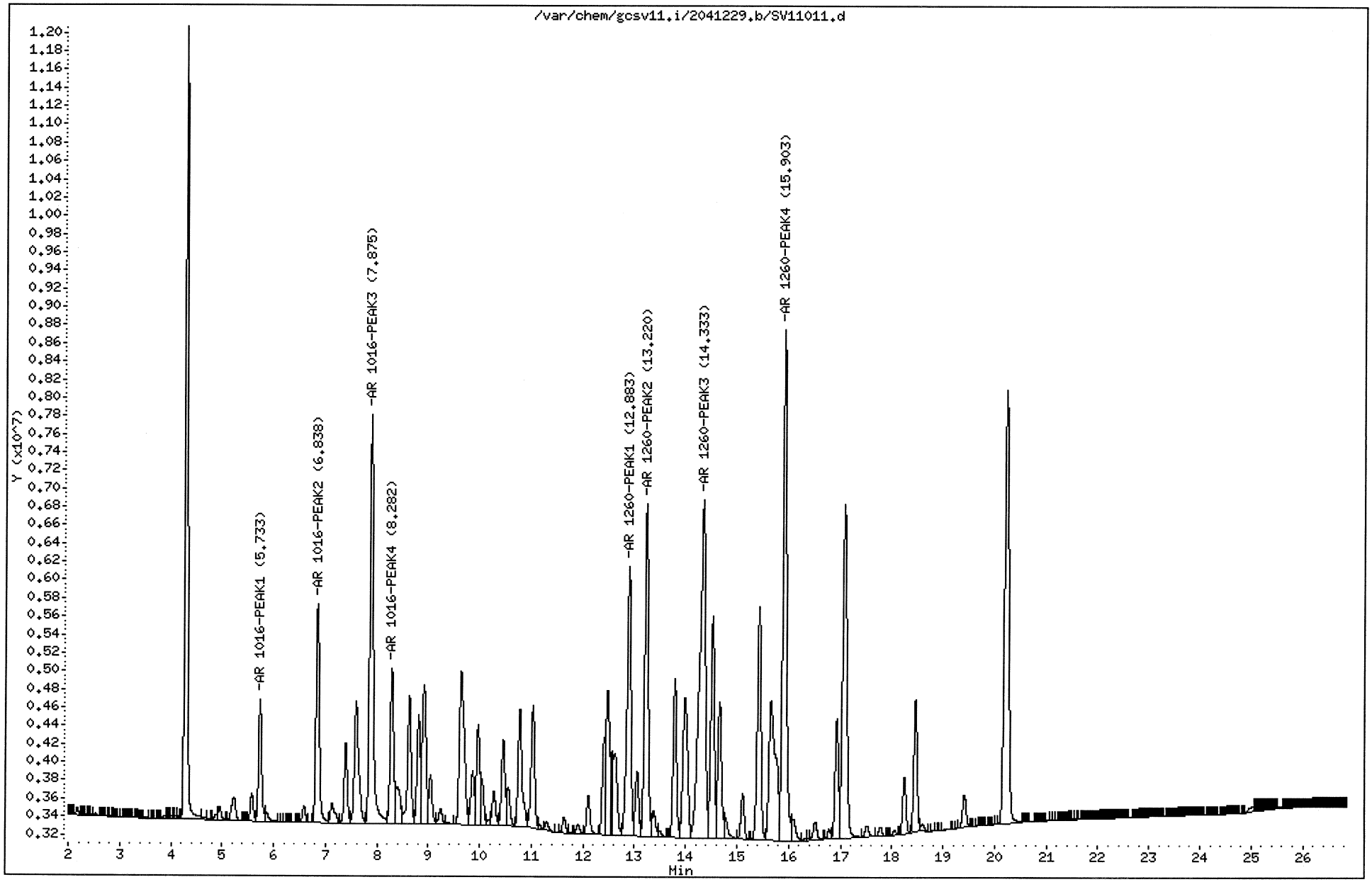
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				46642809	800.000	760.6402
24 AR 1016-PEAK1	5.733	5.733	0.000	5562855	800.000	787.5444
25 AR 1016-PEAK2	6.838	6.839	-0.001	10898155	800.000	756.2763
26 AR 1016-PEAK3	7.875	7.876	-0.001	22135524	800.000	751.9500
27 AR 1016-PEAK4	8.282	8.281	0.001	8046275	800.000	773.0007
M 28 AR 1260-AVG				91804718	800.000	757.5037
29 AR 1260-PEAK1	12.883	12.883	0.000	15989269	800.000	736.7088
30 AR 1260-PEAK2	13.220	13.220	0.000	17778104	800.000	738.1322
31 AR 1260-PEAK3	14.333	14.333	0.000	29272911	800.000	767.0723
32 AR 1260-PEAK4	15.903	15.903	0.000	28764434	800.000	772.3451

Data File: /var/chem/gcsv11.i/2041229.b/SV11011.d
Date : 29-DEC-2004 19:04
Client ID:
Sample Info: 1204-1.0-GCSV~42XX~-63*14*8 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000467



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11012.d
Lab Smp Id: 1205
Inj Date : 29-DEC-2004 19:36
Operator : tls Inst ID: gcsv11.i
Smp Info : 1205-1.0-GCSV~42XX~-63*16*8 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 12 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

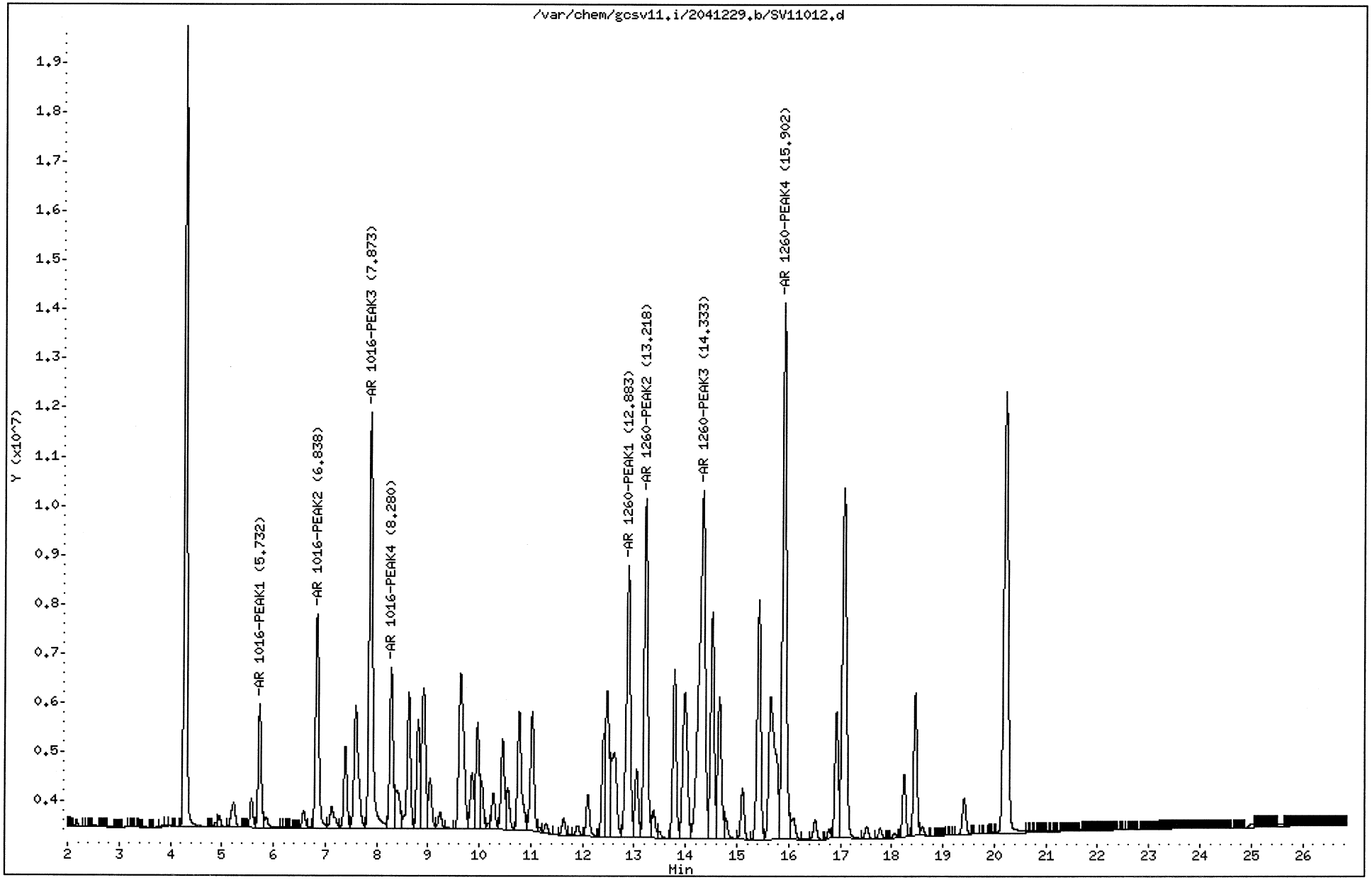
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				87266975	1600.00	1423.1297
24 AR 1016-PEAK1	5.732	5.733	-0.001	10452294	1600.00	1479.7519
25 AR 1016-PEAK2	6.838	6.839	-0.001	19860650	1600.00	1378.2278
26 AR 1016-PEAK3	7.873	7.876	-0.003	41561984	1600.00	1411.8724
27 AR 1016-PEAK4	8.280	8.281	-0.001	15392047	1600.00	1478.7045
M 28 AR 1260-AVG				175338647	1600.00	1446.7631
29 AR 1260-PEAK1	12.883	12.883	0.000	30265871	1600.00	1394.5061
30 AR 1260-PEAK2	13.218	13.220	-0.002	33282500	1600.00	1381.8619
31 AR 1260-PEAK3	14.333	14.333	0.000	56284379	1600.00	1474.8855
32 AR 1260-PEAK4	15.902	15.903	-0.001	55505897	1600.00	1490.3720

Data File: /var/chem/gcsv11.i/2041229.b/SV11012.d
Date : 29-DEC-2004 19:36
Client ID:
Sample Info: 1205-1.0-GCSV^42XX^-63x16x8 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000469



GCAL, Inc.

RECOVERY REPORT

Client Name: 0
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: PCBICV.spk
Sublist File: ICVpcb.sub
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Misc Info:

Client SDG: 63*20*6 AR 1016/12
Fraction: SV

Operator: sjt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
M 23 AR 1016-AVG	400.0000	383.2999	95.82	85-115
M 28 AR 1260-AVG	400.0000	417.8214	104.46	85-115

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11013.d
Lab Smp Id: ICV
Inj Date : 29-DEC-2004 20:08
Operator : sjt Inst ID: gcsv11.i
Smp Info : ICV-1.0-GCSV~42XX~-63*20*6 AR 1016/1260
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICVpcb.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

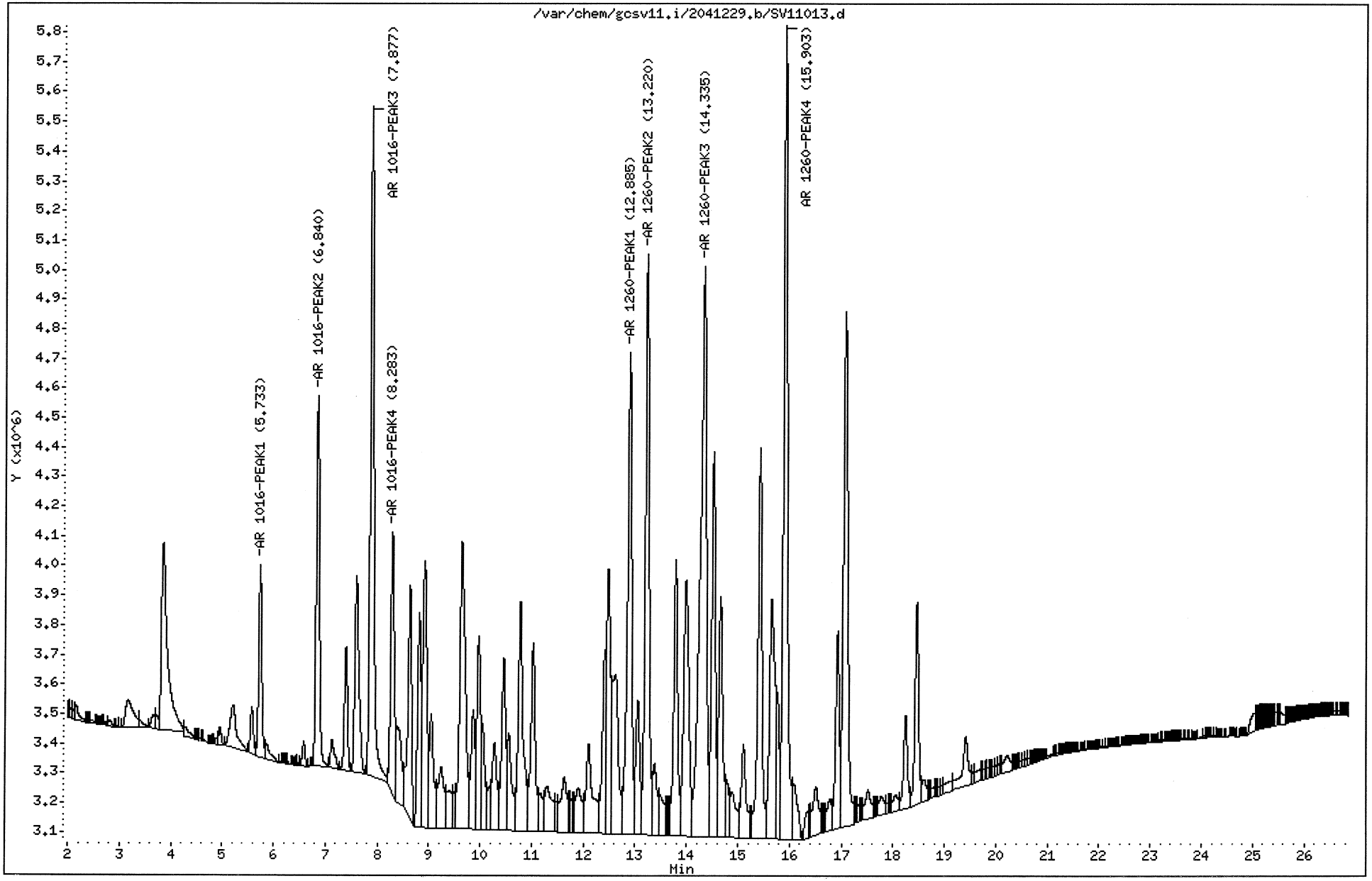
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
M 23 AR 1016-AVG				23504128	383.300	383.2999
24 AR 1016-PEAK1	5.733	5.733	0.000	2678835	379.248	379.2479
25 AR 1016-PEAK2	6.840	6.839	0.001	5461455	378.997	378.9971
26 AR 1016-PEAK3	7.877	7.876	0.001	11094573	376.886	376.8857
27 AR 1016-PEAK4	8.283	8.281	0.002	4269265	410.146	410.1456
M 28 AR 1260-AVG				50637342	417.821	417.8214
29 AR 1260-PEAK1	12.885	12.883	0.002	9638346	444.089	444.0887
30 AR 1260-PEAK2	13.220	13.220	0.000	10229662	424.727	424.7271
31 AR 1260-PEAK3	14.335	14.333	0.002	16095576	421.771	421.7712
32 AR 1260-PEAK4	15.903	15.903	0.000	14673758	394.001	394.0006

Data File: /var/chem/gcsv11.i/2041229.b/SV11013.d
Date : 29-DEC-2004 20:08
Client ID:
Sample Info: ICV-1.0-GCSV^42XX^-63*20*6 AR 1016/1260
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: sjt
Column diameter: 0.53

000472



Data File: /var/chem/gcsv11.i/2041229.b/SV11042.d
Report Date: 02-Jan-2005 15:25

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv11.i
Lab File ID: SV11042.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv11.i/2041229.b/pest608.m

Injection Date: 31-DEC-2004 07:19
Init. Cal. Date(s): 29-DEC-2004 30-DEC-2004
Init. Cal. Times: 11:16 23:56
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	61320	56034	0.010	8.62182	15.00000	Averaged
24 AR 1016-PEAK1	7064	6660	0.010	5.72014	15.00000	Averaged
25 AR 1016-PEAK2	14410	13436	0.010	6.76302	15.00000	Averaged
26 AR 1016-PEAK3	29437	26912	0.010	8.57834	15.00000	Averaged
27 AR 1016-PEAK4	10409	9026	0.010	13.28715	15.00000	Averaged
M 28 AR 1260-AVG	121194	106565	0.010	12.07066	15.00000	Averaged
29 AR 1260-PEAK1	21704	18925	0.010	12.80342	15.00000	Averaged
30 AR 1260-PEAK2	24085	21237	0.010	11.82446	15.00000	Averaged
31 AR 1260-PEAK3	38162	32692	0.010	14.33203	15.00000	Averaged
32 AR 1260-PEAK4	37243	33710	0.010	9.48569	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 10.34867
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11042.d
Lab Smp Id: 1400
Inj Date : 31-DEC-2004 07:19
Operator : tls Inst ID: gcsv11.i
Smp Info : 1400-1.0-GCSV~42XX~-AR 1016 III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:25 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 42 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ARO1260.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

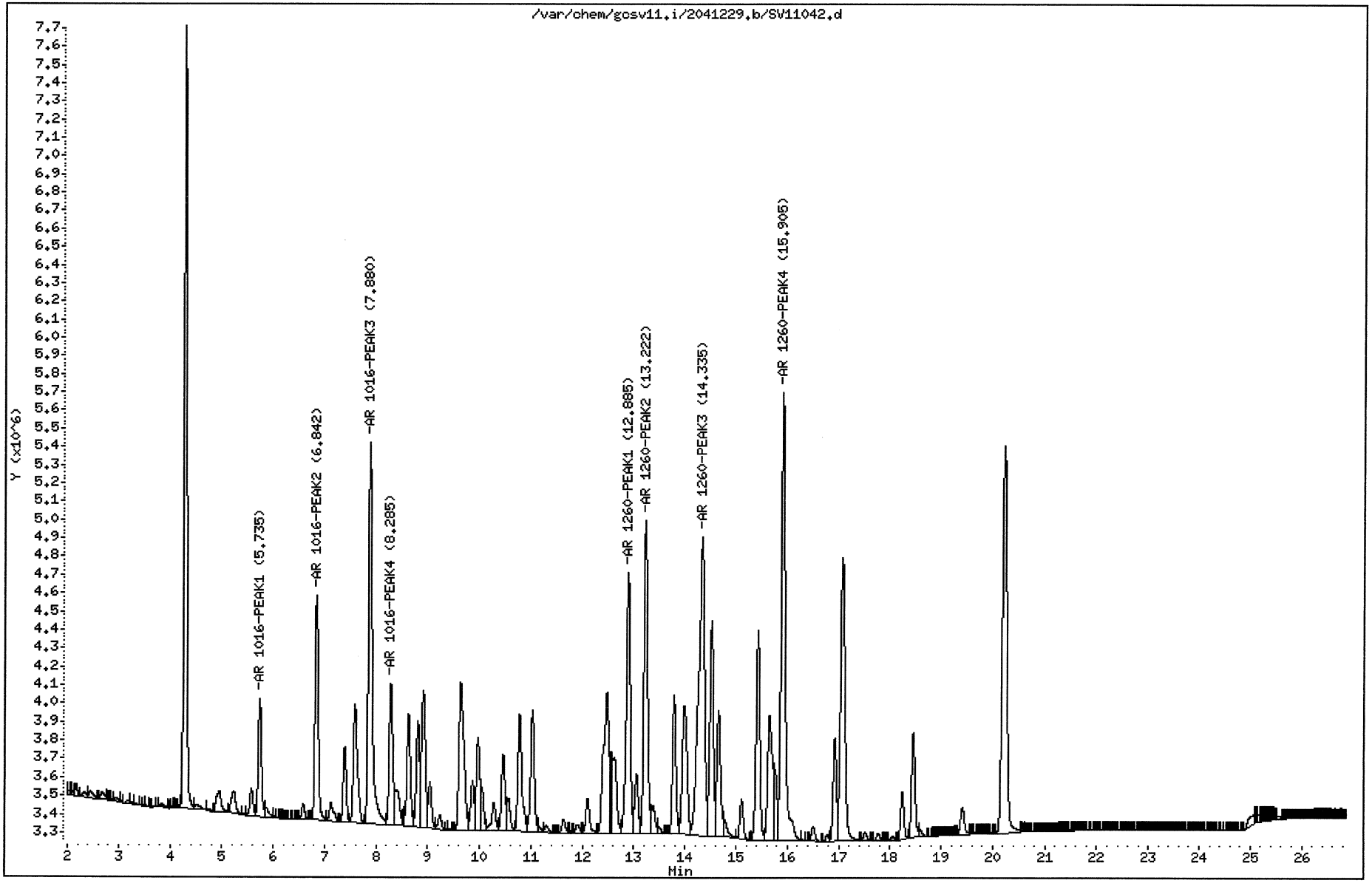
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 23 AR 1016-AVG				22413408	400.000	365.5127
24 AR 1016-PEAK1	5.735	5.733	0.002	2663800	400.000	377.1194
25 AR 1016-PEAK2	6.842	6.839	0.003	5374284	400.000	372.9479
26 AR 1016-PEAK3	7.880	7.876	0.004	10764898	400.000	365.6866
27 AR 1016-PEAK4	8.285	8.281	0.004	3610426	400.000	346.8514
M 28 AR 1260-AVG				42625944	400.000	351.7173
29 AR 1260-PEAK1	12.885	12.883	0.002	7569935	400.000	348.7863
30 AR 1260-PEAK2	13.222	13.220	0.002	8494922	400.000	352.7021
31 AR 1260-PEAK3	14.335	14.333	0.002	13076997	400.000	342.6718
32 AR 1260-PEAK4	15.905	15.903	0.002	13484090	400.000	362.0572

000475

Data File: /var/chem/gcsv11.i/2041229.b/SV11042.d
Date : 31-DEC-2004 07:19
Client ID:
Sample Info: 1400-1.0-GCSV~42XX~-AR 1016 III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285541 Analytical Batch: 285640

Sample ID: MB214975
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214975
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0059
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11030

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	40.0	U	3.02	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	40.0	U	3.02	40.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11030.d
Lab Smp Id: 214975
Inj Date : 31-DEC-2004 00:59
Operator : tls Inst ID: gcsv11.i
Smp Info : 214975-1.0-GCSV~45XX~-2041228blk--blk 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

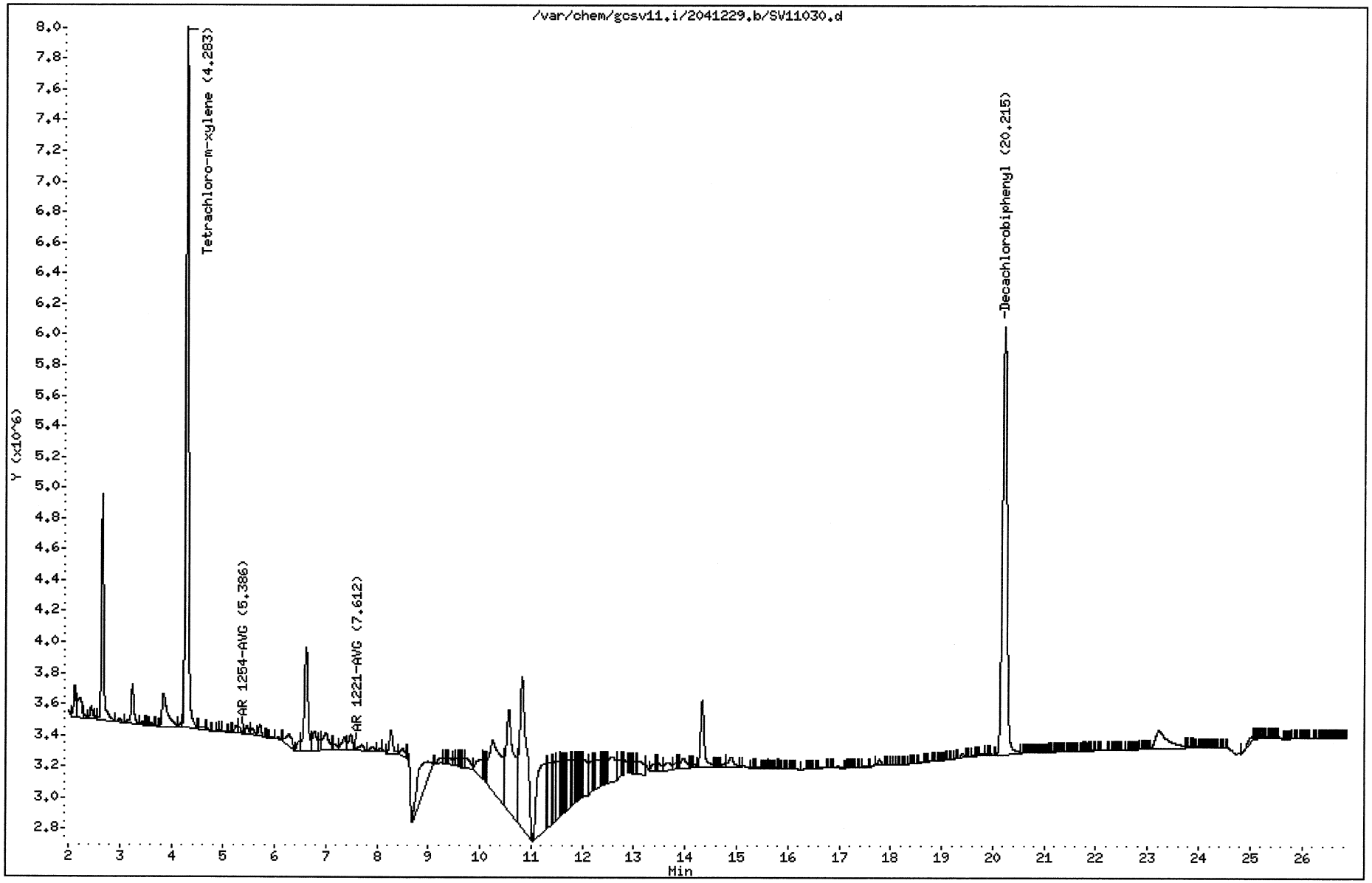
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.283	0.000	16004199	44.2702	14.7567
$ 22 Decachlorobiphenyl	20.215	20.216	-0.001	16216215	50.3365	16.7788

000478

Data File: /var/chem/gcsv11.i/2041229.b/SV11030.d
Date : 31-DEC-2004 00:59
Client ID:
Sample Info: 214975-1.0-GCSV^45XX^-2041228blk--blk 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285541 Analytical Batch: 285640

Sample ID: LCS214976
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214976
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0234
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11033

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	130		3.02	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	143		3.02	40.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11033.d
Lab Smp Id: 214976
Inj Date : 31-DEC-2004 02:34
Operator : tls Inst ID: gcsv11.i
Smp Info : 214976-1.0-GCSV~45XX~-2041228lcs--lcs 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.283	0.000	21193754	58.6254	19.5417
$ 22 Decachlorobiphenyl	20.215	20.216	-0.001	19542015	60.6600	20.2200
M 23 AR 1016-AVG				23973064	390.947	130.3157
24 AR 1016-PEAK1	5.733	5.733	0.000	2895588	409.934	136.6447(M)
25 AR 1016-PEAK2	6.840	6.839	0.001	5306541	368.247	122.7489(M)
26 AR 1016-PEAK3	7.878	7.876	0.002	11124216	377.893	125.9642(M)
27 AR 1016-PEAK4	8.278	8.281	-0.003	4646719	446.407	148.8024(M)
M 28 AR 1260-AVG				52031369	429.324	143.1079
29 AR 1260-PEAK1	12.885	12.883	0.002	8993113	414.360	138.1198
30 AR 1260-PEAK2	13.222	13.219	0.003	9875955	410.042	136.6805
31 AR 1260-PEAK3	14.335	14.333	0.002	17262922	452.361	150.7868
32 AR 1260-PEAK4	15.903	15.903	0.000	15899379	426.909	142.3031

QC Flag Legend

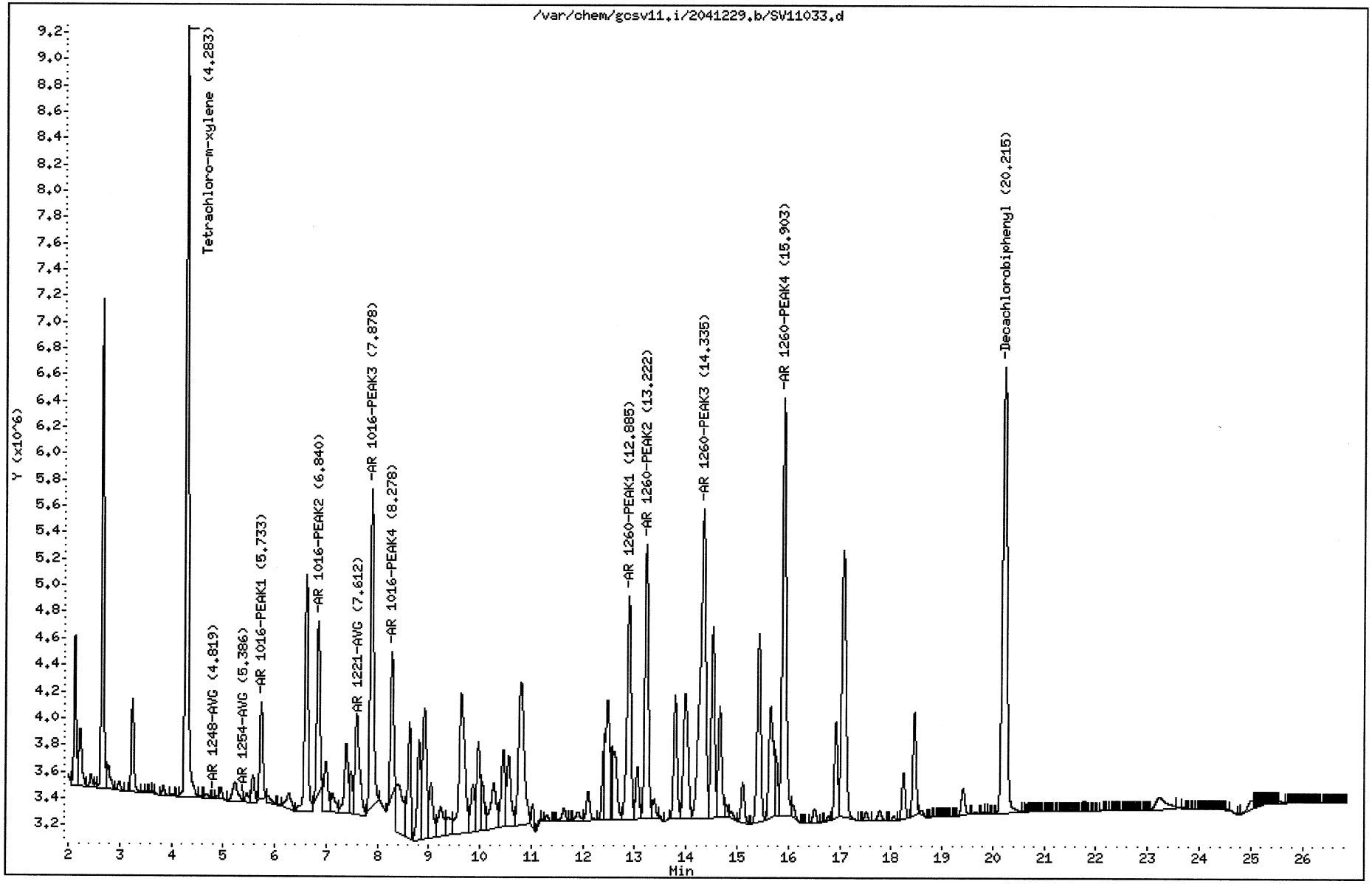
M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11033.d
Date : 31-DEC-2004 02:34
Client ID:
Sample Info: 214976-1.0-GCSV"45XX"-20412281cs--lcs 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000482



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285541 Analytical Batch: 285640

Sample ID: LCSD214977
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214977
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0306
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11034

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	133		3.02	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	156		3.02	40.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11034.d
Lab Smp Id: 214977
Inj Date : 31-DEC-2004 03:06
Operator : tls Inst ID: gcsv11.i
Smp Info : 214977-1.0-GCSV~45XX~-2041228lcsd--lcsd 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 34 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.282	4.283	-0.001	21724383	60.0932	20.0310
$ 22 Decachlorobiphenyl	20.217	20.216	0.001	20020587	62.1456	20.7151
M 23 AR 1016-AVG				24492463	399.417	133.1391
24 AR 1016-PEAK1	5.732	5.733	-0.001	2987371	422.928	140.9760(M)
25 AR 1016-PEAK2	6.840	6.839	0.001	5471366	379.685	126.5616(M)
26 AR 1016-PEAK3	7.877	7.876	0.001	11284956	383.353	127.7843(M)
27 AR 1016-PEAK4	8.277	8.281	-0.004	4748770	456.211	152.0704(M)
M 28 AR 1260-AVG				56676778	467.654	155.8847
29 AR 1260-PEAK1	12.885	12.883	0.002	10052280	463.161	154.3869
30 AR 1260-PEAK2	13.222	13.219	0.003	10730531	445.523	148.5076
31 AR 1260-PEAK3	14.333	14.333	0.000	19386411	508.005	169.3349
32 AR 1260-PEAK4	15.905	15.903	0.002	16507556	443.239	147.7464

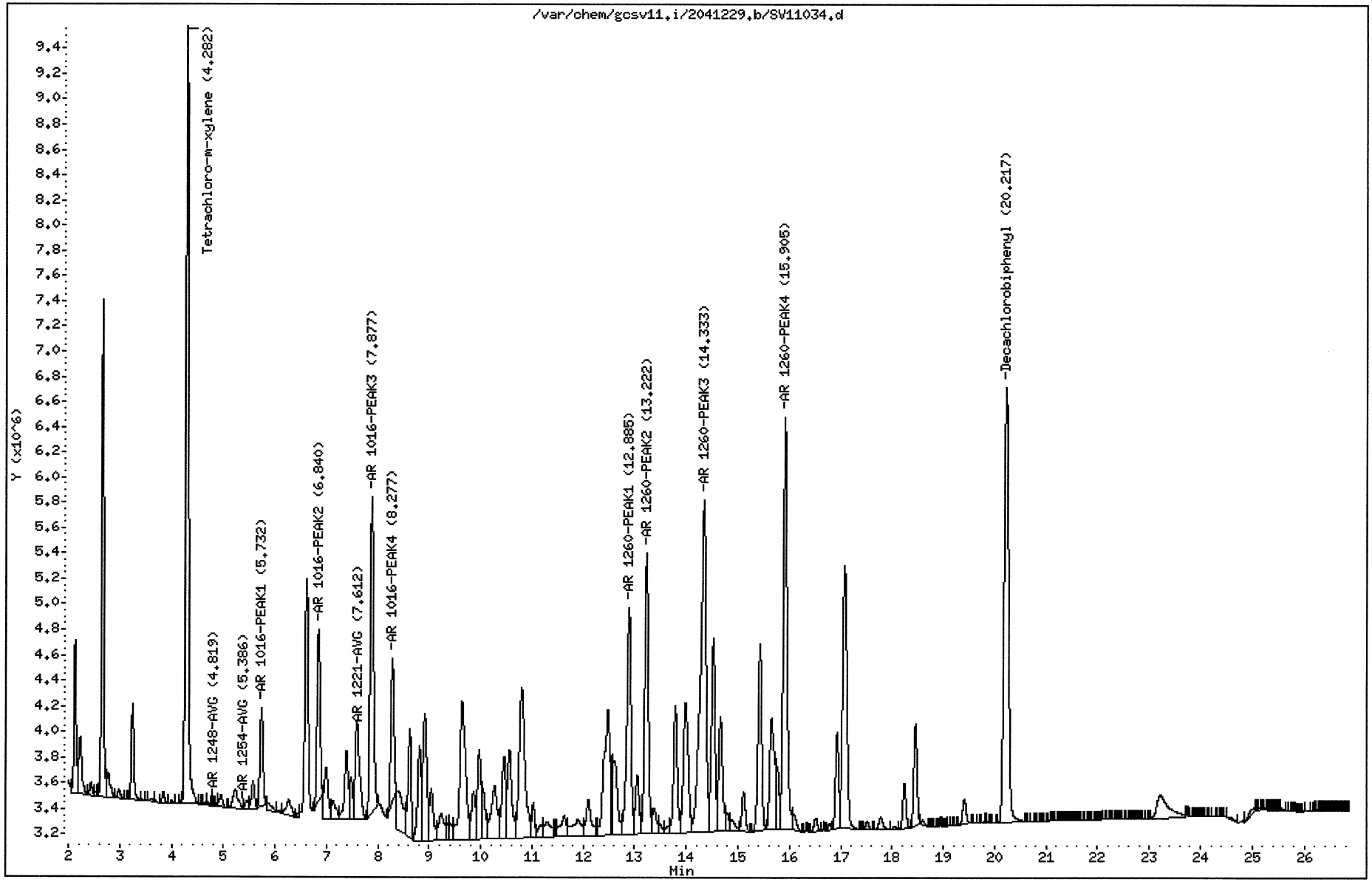
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11034.d
Date : 31-DEC-2004 03:06
Client ID:
Sample Info: 214977-1.0-GCSV^45XX^-20412281csd--1csd 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000486



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-50-30M ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285541 Analytical Batch: 285640

Sample ID: 001-NFF-BFC-S-122...MS

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 214978

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/29/04

Date Analyzed: 12/31/04 Time: 0513

Dilution Factor: 1 Analyst: TLS

Prep Method: 3550B

Analytical Method: SW-846 8082

Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B

CONCENTRATION UNITS: ug/kg

Lab File ID: 2041229/SV11038

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	118		3.39	45.0
11104-28-2	Aroclor-1221	45.0	U	10.3	45.0
11141-16-5	Aroclor-1232	45.0	U	11.3	45.0
53469-21-9	Aroclor-1242	45.0	U	13.2	45.0
12672-29-6	Aroclor-1248	45.0	U	8.78	45.0
11097-69-1	Aroclor-1254	45.0	U	7.30	45.0
11096-82-5	Aroclor-1260	114		3.39	45.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11038.d
Lab Smp Id: 214978
Inj Date : 31-DEC-2004 05:13
Operator : tls Inst ID: gcsv11.i
Smp Info : 214978-1.0-GCSV~45XX~-204122902--4380MS 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 38 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.282	4.283	-0.001	16245858	44.9387	14.9795
$ 22 Decachlorobiphenyl	20.213	20.216	-0.003	14009972	43.4881	14.4960
M 23 AR 1016-AVG				19244481	313.835	104.6115
24 AR 1016-PEAK1	5.732	5.733	-0.001	2237584	316.779	105.5930(M)
25 AR 1016-PEAK2	6.838	6.839	-0.001	4640417	322.021	107.3404(M)
26 AR 1016-PEAK3	7.875	7.876	-0.001	9694173	329.314	109.7712(M)
27 AR 1016-PEAK4	8.280	8.281	-0.001	2672307	256.727	85.5756(M)
M 28 AR 1260-AVG				36856287	304.110	101.3701
29 AR 1260-PEAK1	12.882	12.883	-0.001	6789990	312.850	104.2833
30 AR 1260-PEAK2	13.218	13.219	-0.001	7014916	291.254	97.0845
31 AR 1260-PEAK3	14.330	14.333	-0.003	12366462	324.053	108.0176
32 AR 1260-PEAK4	15.902	15.903	-0.001	10684919	286.898	95.6325

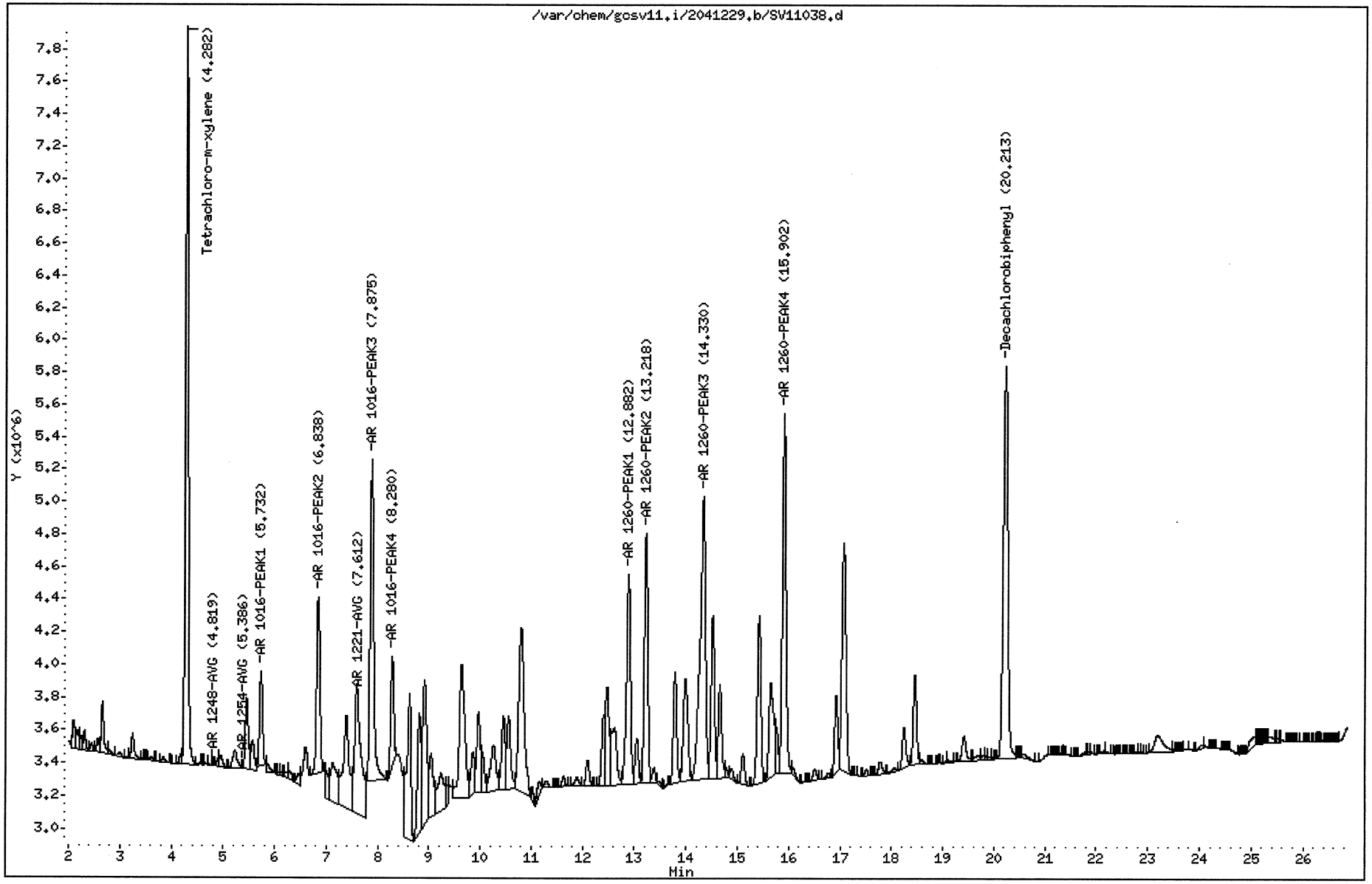
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11038.d
Date : 31-DEC-2004 05:13
Client ID:
Sample Info: 214978-1.0-GCSV^45XX^-204122902--4380MS 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000490



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285541 Analytical Batch: 285640

Sample ID: 001-NFF-BFC-S-12...MSD
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214979
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0544
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11039

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	119		3.39	45.0
11104-28-2	Aroclor-1221	45.0	U	10.3	45.0
11141-16-5	Aroclor-1232	45.0	U	11.3	45.0
53469-21-9	Aroclor-1242	45.0	U	13.2	45.0
12672-29-6	Aroclor-1248	45.0	U	8.78	45.0
11097-69-1	Aroclor-1254	45.0	U	7.30	45.0
11096-82-5	Aroclor-1260	123		3.39	45.0

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11039.d
Lab Smp Id: 214979
Inj Date : 31-DEC-2004 05:44
Operator : tls Inst ID: gcsv11.i
Smp Info : 214979-1.0-GCSV~45XX~-204122902--4380MSD 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 39 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pcb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.282	4.283	-0.001	16027994	44.3361	14.7786
$ 22 Decachlorobiphenyl	20.213	20.216	-0.003	14007432	43.4802	14.4934
M 23 AR 1016-AVG				19501052	318.019	106.0062
24 AR 1016-PEAK1	5.732	5.733	-0.001	2268173	321.110	107.0365(M)
25 AR 1016-PEAK2	6.840	6.839	0.001	4595406	318.898	106.2992(M)
26 AR 1016-PEAK3	7.875	7.876	-0.001	9850327	334.618	111.5394(M)
27 AR 1016-PEAK4	8.280	8.281	-0.001	2787146	267.759	89.2531(M)
M 28 AR 1260-AVG				39505266	325.968	108.6559
29 AR 1260-PEAK1	12.883	12.883	0.000	7044893	324.595	108.1982
30 AR 1260-PEAK2	13.218	13.219	-0.001	7282083	302.346	100.7820
31 AR 1260-PEAK3	14.330	14.333	-0.003	13846100	362.826	120.9418
32 AR 1260-PEAK4	15.902	15.903	-0.001	11332190	304.277	101.4257

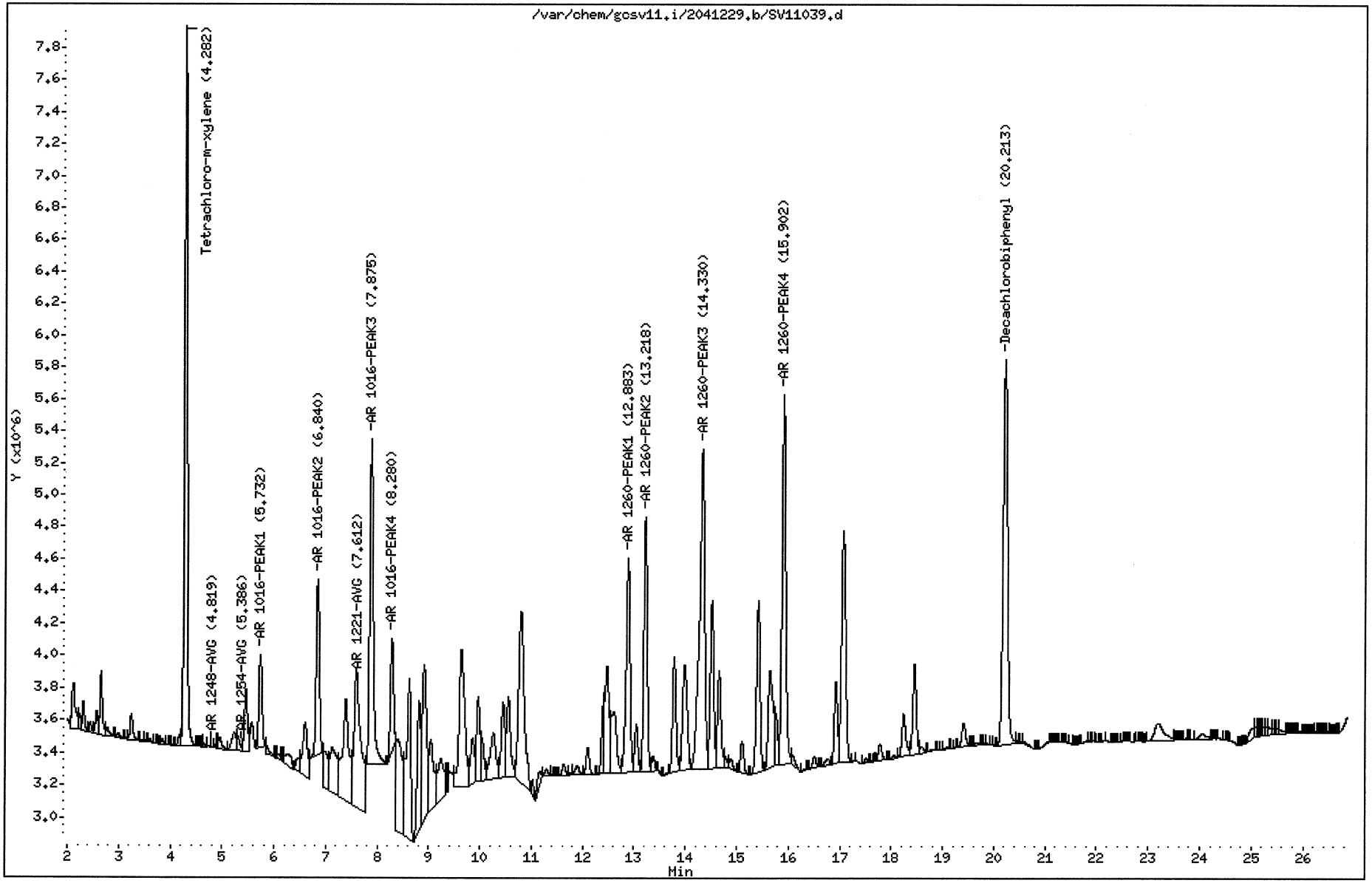
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11039.d
Date : 31-DEC-2004 05:44
Client ID:
Sample Info: 214979-1.0-GCSV^45XX^-204122902--4380MSD 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000494



PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	12-28-04 1000	BATCH NO:	285541
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 285541 [EXTO/6826]	214975	30.0	10.0		8082	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 285541 [EXTO/6826]	214976	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 285541 [EXTO/6826	214977	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	001-NFF-BFC-S-1228-04	20412290201	30.0	10.0			
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	214978	30.0	10.0			GPC CLEANUP/3640
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	214979	30.0	10.0			
7								SONICATOR/3550 ✓
8								
9								FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP ✓
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No: 1-76-1
20								
21								ACETONE LOT NO: 044762
22								
23								MECL2 Lot No: 042721
24								
25								HEXANE Lot No: 044711
26								
27								Sodium Sulfate Lot No: ~~042~~ SGT 044031
28								

12-29-04 UPA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-12-9	PCB 8081 SPIKE ID	9-12-5	608 SPIKE ID		TECHNICIAN	DATE
VOLUME	1.0 ml	VOLUME	1.0 ml	VOLUME		[signature]	12-28-04
CONCENTRATION	0.5 ug/ml	CONCENTRATION	4.0 ug/ml	CONCENTRATION			
ACID						SUPERVISOR	DATE
E WITNESS	JCL					John Bailey	01/03/05

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
EPH Aromatic 2nd Source	63-15-1	1000 ug/ml ~~AROCL~~ 10,000 ug/ml D-terph. 4000 ug/ml Eicosane	NSI NSI Restek	UST-250-06 1/06 1341H-02-05 8/05 A028611 11/05	1.0 ml 0.1 ml 0.25 ml	5 ml	200 ppm	DCM 036929	HJL	9-1-04	2-28-05
AR1221 III	63-15-2	pcb 1221 1,000 ug/mL	NSI	128M-07-02 8/05	20ul	50 mL	400 ppb	Hexane 038647	TLS	9-2-04	3-2-05
AR1232 III	63-15-3	pcb 1232 1,000 ug/mL	↓	107-05-02 12/06	20ul	↓	↓	↓	↓	↓	↓
AR1242 III	63-15-4	pcb 1242 1,000 ug/mL	↓	132M-11-02 8/06	20ul	↓	↓	↓	↓	↓	↓
AR1248 III	63-15-5	pcb 1248 1,000 ug/mL	↓	108M-07-02 10/06	20ul	↓	↓	↓	↓	↓	↓
AR1254 III	63-15-6	pcb 1254 1,000 ug/mL	↓	136M-11-02 9/06	20ul	↓	↓	↓	↓	↓	↓
Allyl Alcohol	63-15-7	~~442445~~-U 1000mg 'Neat'	Supelco	LB16918 Ex Dec 2006	.1 g	2mLs	50,000 ug/mL	Di Water	dlb	9/4/04	03/03/05
Eth. Oxide + Allyl Alcoh mix	63-15-8	63 15-7 48891 50,000 ug/mL	in house Supelco	in house 3/3/05 LB 21126 Exp Jun 2007	1mL 1mL	50mL	1000 ug/mL	Di Water	dlb	9/4/04	03/03/05
Eth. Oxide Allyl Alcohol ICV	63-15-9	~~mt~~ SST 8-7 ~~63-15-7~~ Allyl Alcohol 50000 ug/ml Eth Oxide 1000 ug/ml	in house Absolut	63-15-7 exp 3/3/5 081104 SST 9/7 exp ~~10/10/04~~ 10/10/04	20 uL 1mL	10mL	100 ug/ml 100 ug/ml	DI Water	SST	9/7/04	10/10/04
TX 1005	63-15-10	DRA-TX-002 20,000 ug/mL 1341-H - OTerph 10,000 ug/mL	Accust. NSI	B009045 4/07 1341H0205 5/07	1 mL 2 mL	20 mL	1000 ppm	041293 Pentane ~~UN 1265~~	dlb	9/8/04	03/07/05

dlb 9/8/04

000496

000017

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
Carbon marker	63-24-1	Q 4182 200ug/m	NSI	030404-2 200ug/mL 3/08	1.0mL	10.mL	200ug/mL	DCM 040131	TLS	12-18-04	6-18-04
Pest Extra Stock Std	63-24-2	Q-4266 1000 ug/mL	NSI	060104-01 06/05	200uL	50mLs	4000 ug/L	hexane 043187	dlb	12-22-04	06-21-05
Pest Extra Working Standard	63-24-3	in house 63-24-2	in house (NSI)	in house 63-24-2 06/21/05	2.5mLs	50mLs	200 ug/L	hexane 043187	dlb	12-22-04	06-21-05
Pest Extra ICV Stock	63-24-4	Q4266A 1000 ug/mL	NSI	060104-01 06/05	200uL	50mLs	4000ug/L	hexane 043187	dlb	12-22-04	06-21-05
Pest Extra ICV working Standard	63-24-5	in house 63-24-4	in house (NSI)	in house 63-24-4 06/21/05	2.5mLs	50mLs	200ug/L	hexane 043187	dlb	12-22-04	06-21-05
Dates 12-06-04 — 12-22-04 were reviewed by QA/QC Dept. on 12/22/04 DLH											
1016/1260 III	63-24-6	8082 Mix 1000 ug/mL Pest Surr 200 ug/mL	NSI NSI	C-496-03 exp 4/06 C-194-06 exp 10/05	40uL 20uL	100mL	400/40 ppb	hexane 043187	SST	12-27-04	6-26-05
1016/1260 V	63-24-7	8082 Mix 1000 ug/mL Pest Surr 200 ug/mL	NSI NSI	C-496-03 exp 4/06 C-194-06 exp 10/05	80uL 40uL	50mL	1600/160 ppb	hexane 043187	SST	12-22-04	6-26-05
Toxaphene V	63-24-8	111-04-04 5000 ug/mL	NSI	111-04-04 08/07	50 uL	50mL	5000ppb	hexane 043187	dlb	12-29-04	06-28-05
1016/1260 2nd Source	63-24-9	In House 9-12-5 4ug/mL	In House	9-12-5 (EXT) exp 6/21/05	1mL	100mL	400 ppb	hexane 043187	SST	12-30-04	06-20-05

000497

000024

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 01/02/2005
Instrument: gcsv11.i
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Batch: /var/chem/gcsv11.i/2041229.b
Column-Detector: RTX-50-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
hexane		SV11001.d	29-DEC-2004 10:12	1.000	dlb	
DEG		SV11002.d	29-DEC-2004 10:44	1.000	dlb	
1203		SV11003.d	29-DEC-2004 11:16	1.000	tls	
1203		SV11004.d	29-DEC-2004 11:47	1.000	tls	
1203		SV11005.d	29-DEC-2004 12:19	1.000	tls	
1203		SV11006.d	29-DEC-2004 13:06	1.000	tls	
1203		SV11007.d	29-DEC-2004 13:37	1.000	tls	
1201		SV11008.d	29-DEC-2004 17:29	1.000	tls	
1202		SV11009.d	29-DEC-2004 18:01	1.000	tls	
1203		SV11010.d	29-DEC-2004 18:33	1.000	tls	
1204		SV11011.d	29-DEC-2004 19:04	1.000	tls	
1205		SV11012.d	29-DEC-2004 19:36	1.000	tls	
ICV		SV11013.d	29-DEC-2004 20:08	1.000	sjt	
DEG		SV11014.d	30-DEC-2004 16:32	1.000	dlb	
1201		SV11015.d	30-DEC-2004 17:04	1.000	tls	
1202		SV11016.d	30-DEC-2004 17:36	1.000	tls	
1203		SV11017.d	30-DEC-2004 18:07	1.000	tls	
1204		SV11018.d	30-DEC-2004 18:39	1.000	tls	
1205		SV11019.d	30-DEC-2004 19:11	1.000	tls	
ICV		SV11020.d	30-DEC-2004 19:42	1.000	dlb	
1201		SV11021.d	30-DEC-2004 20:14	1.000	tls	
1202		SV11022.d	30-DEC-2004 20:46	1.000	tls	
1203		SV11023.d	30-DEC-2004 21:18	1.000	tls	
1204		SV11024.d	30-DEC-2004 21:49	1.000	tls	
1205		SV11025.d	30-DEC-2004 22:21	1.000	tls	
ICV		SV11026.d	30-DEC-2004 22:53	1.000	dlb	
1205		SV11027.d	30-DEC-2004 23:24	1.000	tls	
1205		SV11028.d	30-DEC-2004 23:56	1.000	tls	
DEG		SV11029.d	31-DEC-2004 00:28	1.000	dlb	
214969		SV11030.d	31-DEC-2004 00:59	1.000	dlb	
214970		SV11031.d	31-DEC-2004 01:31	1.000	tls	
214971		SV11032.d	31-DEC-2004 02:03	1.000	tls	
214976		SV11033.d	31-DEC-2004 02:34	1.000	dlb	
214977		SV11034.d	31-DEC-2004 03:06	1.000	dlb	
20412290201		SV11035.d	31-DEC-2004 03:38	1.000	tls	
214972		SV11036.d	31-DEC-2004 04:09	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 01/02/2005
Instrument: gcsv11.i
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Batch: /var/chem/gcsv11.i/2041229.b
Column-Detector: RTX-50-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
214973		SV11037.d	31-DEC-2004 04:41	1.000	tls	
214978		SV11038.d	31-DEC-2004 05:13	1.000	dlb	
214979		SV11039.d	31-DEC-2004 05:44	1.000	dlb	
1400		SV11040.d	31-DEC-2004 06:16	1.000	tls	
1400		SV11041.d	31-DEC-2004 06:48	1.000	tls	
1400		SV11042.d	31-DEC-2004 07:19	1.000	dlb	
ICV		SV11043.d	31-DEC-2004 08:11	1.000	tls	
212412		SV11044.d	31-DEC-2004 08:53	1.000	tls	
212413		SV11045.d	31-DEC-2004 09:25	1.000	tls	
212414		SV11046.d	31-DEC-2004 09:56	1.000	tls	
212379		SV11047.d	31-DEC-2004 10:28	1.000	tls	
212380		SV11048.d	31-DEC-2004 11:00	1.000	tls	
212381		SV11049.d	31-DEC-2004 11:32	1.000	tls	
DEG		SV11050.d	31-DEC-2004 12:03	1.000	tls	
1400		SV11051.d	31-DEC-2004 12:45	1.000	tls	
1400		SV11052.d	31-DEC-2004 13:16	1.000	tls	
1400		SV11053.d	31-DEC-2004 14:39	1.000	tls	
20412144108		SV11054.d	31-DEC-2004 15:20	100.000	tls	
20412144107		SV11055.d	31-DEC-2004 15:51	20.000	tls	
20412144105		SV11056.d	31-DEC-2004 16:23	10.000	tls	
20412144104		SV11057.d	31-DEC-2004 16:55	10.000	tls	
20412144103		SV11058.d	31-DEC-2004 17:27	10.000	tls	
20412144112		SV11059.d	31-DEC-2004 17:58	20.000	tls	
20412144111		SV11060.d	31-DEC-2004 18:30	100.000	tls	
20412144110		SV11061.d	31-DEC-2004 19:02	2.000	tls	
20412144109		SV11062.d	31-DEC-2004 19:34	20.000	tls	
20412144102		SV11063.d	31-DEC-2004 20:05	1.000	tls	
1400		SV11064.d	31-DEC-2004 20:37	1.000	tls	
1400		SV11065.d	31-DEC-2004 21:09	1.000	tls	
20412220502		SV11066.d	31-DEC-2004 21:41	2.000	tls	
20412220503		SV11067.d	31-DEC-2004 22:12	5.000	tls	
1400		SV11068.d	31-DEC-2004 22:44	1.000	tls	
1400		SV11069.d	31-DEC-2004 23:16	1.000	tls	
DEG		SV11070.d	02-JAN-2005 09:06	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

GC Column (1) : RTX-1701-3 ID: .53 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8151A

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 001-NFF-BFC-S-1228-04	90								0
2. MB215086	91								0
3. LCS215087	107								0
4. LCSD215088	101								0
5. 001-NFF-BFC-S-122...MS	75								0
6. 001-NFF-BFC-S-12...MSD	76								0

CONTROL LIMITS

SMC 1 : DCAA 37 140

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8151A

Prep Batch: 285561 Analytical Batch: 285608

Spike HSN : 215089

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
2,4'-D	ug/kg	75.7	0	29.9	40		10 - 126
2,4,5-T	ug/kg	74.9	0	38.6	52		32 - 130
2,4,5-TP (SILVEX)	ug/kg	75.7	0	39.2	52		34 - 124

Spike Dupe HSN : 215090

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	ug/kg	75.7	30.8	41		3		10 - 126	0 - 40
2,4,5-T	ug/kg	74.9	39.3	53		2		32 - 130	0 - 40
2,4,5-TP (SILVEX)	ug/kg	75.7	40.1	53		2		34 - 124	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8151A

Prep Batch: 285561 Analytical Batch: 285608

Spike HSN : 215087

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4'-D	ug/kg	67.3	0	44.4	66		10 - 126
2,4,5-T	ug/kg	66.6	0	52.2	78		32 - 130
2,4,5-TP (SILVEX)	ug/kg	67.3	0	54.1	80		34 - 124

Spike Dupe HSN : 215088

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	ug/kg	67.3	42.7	63		4		10 - 126	0 - 40
2,4,5-T	ug/kg	66.6	52.1	78		.2		32 - 130	0 - 40
2,4,5-TP (SILVEX)	ug/kg	67.3	55.5	82		3		34 - 124	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB215086

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 215086

SAS No.: SDG No.: 204122902

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 12/29/04

Date Analyzed (1): 12/30/04 Time (1): 1008

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8A

Instrument ID (2):

GC Column (1): RTX-1701-3 ID: .53 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8151A

Prep Batch: 285561 Analytical Batch: 285608

Lab File ID: 2041230/SV8002

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS215087	215087	12/30/04	1031		
2.	LCSD215088	215088	12/30/04	1055		
3.	001-NFF-BFC-S-1228-04	20412290201	12/30/04	1118		
4.	001-NFF-BFC-S-122...MS	215089	12/30/04	1141		
5.	001-NFF-BFC-S-12...MSD	215090	12/30/04	1204		

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285561 Analytical Batch: 285608

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-1228-04

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 20412290201

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/29/04

Date Analyzed: 12/30/04 Time: 1118

Dilution Factor: 1 Analyst: SJT

Prep Method: SW-846 8151A

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID: 2041230/SV8005

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	19.1	U	1.87	19.1
93-76-5	2,4,5-T	19.1	U	2.26	19.1
93-72-1	2,4,5-TP (SILVEX)	19.1	U	1.97	19.1

Data File: /var/chem/gcsv8.i/2041230.b/SV8005.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8005.d
Lab Smp Id: 20412290201
Inj Date : 30-DEC-2004 11:18
Operator : sjt Inst ID: gcsv8.i
Smp Info : 20412290201-1.0-GCSV~45XX~--204122902---4380 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

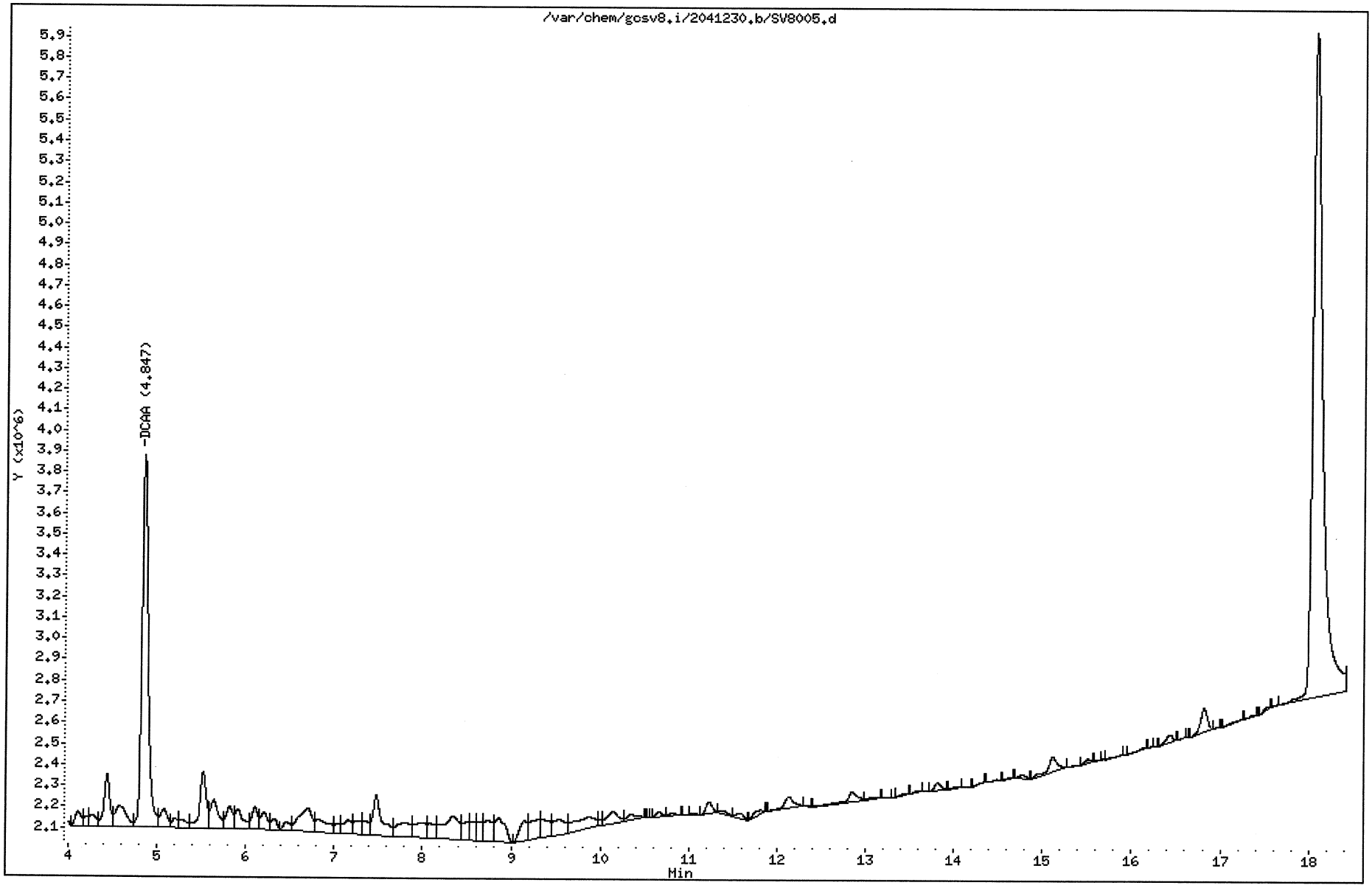
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
$ 1 DCAA	4.847	4.835	0.012	8549117	360.791	120

Data File: /var/chem/gcsv8.i/2041230.b/SV8005.d
Date : 30-DEC-2004 11:18
Client ID:
Sample Info: 20412290201-1.0-GCSV"45XX"--204122902---4380 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53



000506

Report Date : 27-Dec-2004 13:02

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 27-DEC-2004 10:19
End Cal Date : 27-DEC-2004 12:15
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv8.i/2041227.b/M8151.m
Cal Date : 27-Dec-2004 12:58 sjt
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv8.i/2041227.b/SV8001.d
Level 2: /var/chem/gcsv8.i/2041227.b/SV8002.d
Level 3: /var/chem/gcsv8.i/2041227.b/SV8003.d
Level 4: /var/chem/gcsv8.i/2041227.b/SV8004.d
Level 5: /var/chem/gcsv8.i/2041227.b/SV8005.d
Level 6: /var/chem/gcsv8.i/2041227.b/SV8006.d

Compound	11.800 Level 1	23.600 Level 2	47.200 Level 3	94.300 Level 4	188.700 Level 5	377.400 Level 6	___ RRF	% RSD
2 2,4-D	51334	45294	42277	41388	36302	32844	41573	15.723
3 2,4,5-TP	153248	146397	141579	143112	130315	120944	139266	8.388
4 2,4,5-T	139079	134674	131105	130916	118046	108230	127008	9.111
5 Dinoseb	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 DCAA	30700	25879	23871	23045	20323	18355	23696	18.316

Report Date : 27-Dec-2004 13:02

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 27-DEC-2004 10:19
End Cal Date	: 27-DEC-2004 12:15
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv8.i/2041227.b/M8151.m
Cal Date	: 27-Dec-2004 12:58 sjt
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 12.8844938                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv8.i/2041227.b/SV8001.d
Report Date: 28-Dec-2004 08:02

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8001.d
Lab Smp Id: 1201
Inj Date : 27-DEC-2004 10:19
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1201-1.0-GCSV~42XX~--63*20*4---herb 12.5
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:02 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 10:19 Cal File: SV8001.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

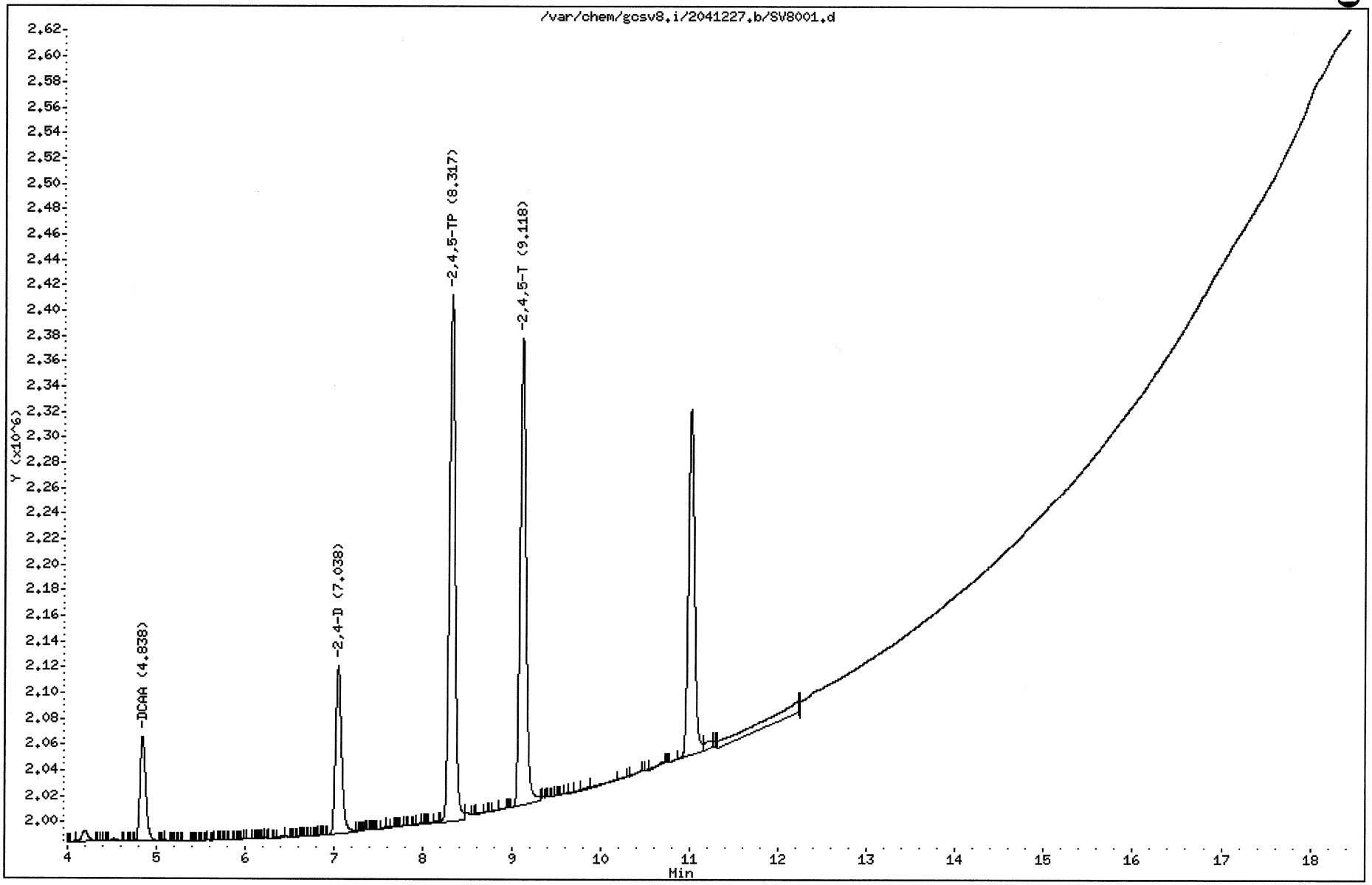
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.838	4.832	0.006	362261	11.8000	15.3
2 2,4-D	7.038	7.032	0.006	605745	11.8000	14.6
3 2,4,5-TP	8.317	8.306	0.011	1808323	11.8000	13.0
4 2,4,5-T	9.118	9.109	0.009	1641137	11.8000	12.9

Data File: /var/chem/gcsv8.i/2041227.b/SV8001.d
Date : 27-DEC-2004 10:19
Client ID:
Sample Info: 1201-1.0-GCSV^42XX^--63*20*4---herb 12.5
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000510



Data File: /var/chem/gcsv8.i/2041227.b/SV8002.d
Report Date: 28-Dec-2004 08:02

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8002.d
Lab Smp Id: 1202
Inj Date : 27-DEC-2004 10:43
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1202-1.0-GCSV~42XX~--63*20*4---herb 25
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:02 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 10:43 Cal File: SV8002.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

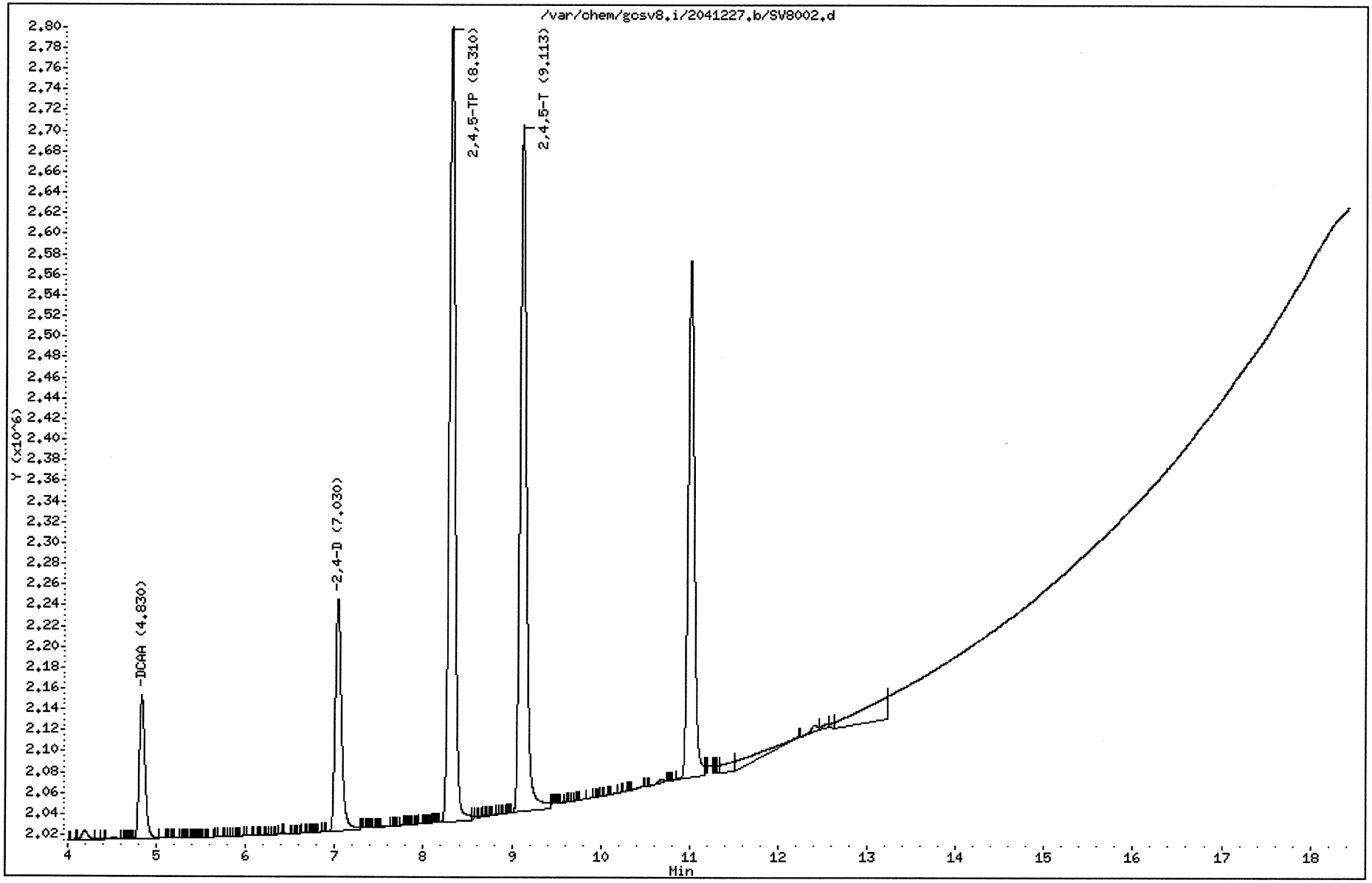
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.830	4.832	-0.002	610745	23.6000	25.8
2 2,4-D	7.030	7.032	-0.002	1068932	23.6000	25.7
3 2,4,5-TP	8.310	8.306	0.004	3454979	23.6000	24.8
4 2,4,5-T	9.113	9.109	0.004	3178307	23.6000	25.0

Data File: /var/chem/gcsv8.i/2041227.b/SV8002.d
Date : 27-DEC-2004 10:43
Client ID:
Sample Info: 1202-1.0-GCSV^42XX^--63*20*4---herb 25
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000512



Data File: /var/chem/gcsv8.i/2041227.b/SV8003.d
Report Date: 28-Dec-2004 08:02

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8003.d
Lab Smp Id: 1203
Inj Date : 27-DEC-2004 11:06
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1203-1.0-GCSV~42XX~--63*20*4---herb 50
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:02 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 11:06 Cal File: SV8003.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

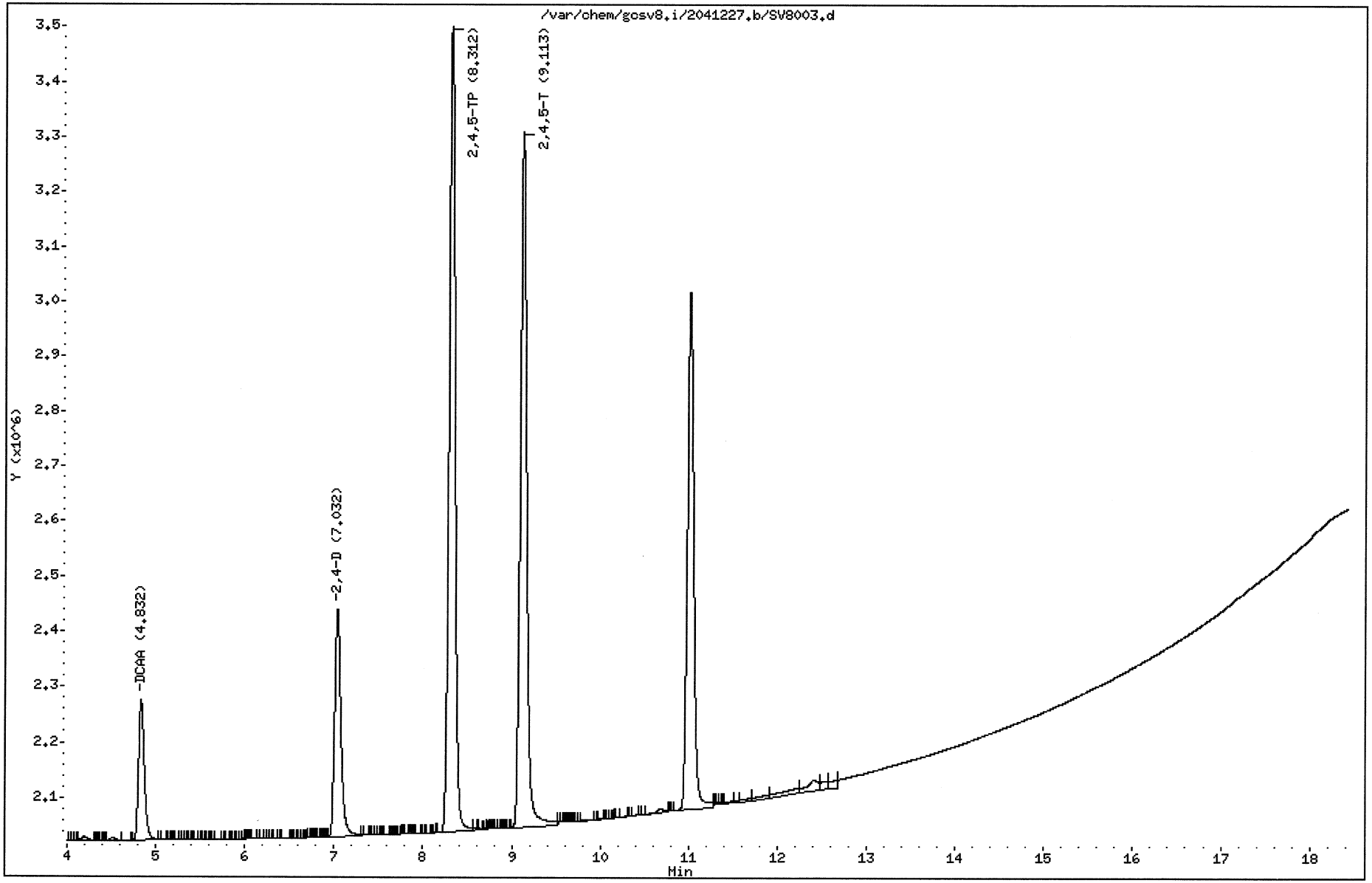
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.832	4.832	0.000	1126700	47.2000	47.5
2 2,4-D	7.032	7.032	0.000	1995463	47.2000	48.0
3 2,4,5-TP	8.312	8.306	0.006	6682542	47.2000	48.0
4 2,4,5-T	9.113	9.109	0.004	6188162	47.2000	48.7

Data File: /var/chem/gcsv8.i/2041227.b/SV8003.d
Date : 27-DEC-2004 11:06
Client ID:
Sample Info: 1203-1.0-GCSV"42XX"--63*20*4---herb 50
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i

Operator: sjt
Column diameter: 0.53

000514



Data File: /var/chem/gcsv8.i/2041227.b/SV8004.d
Report Date: 28-Dec-2004 08:03

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8004.d
Lab Smp Id: 1204
Inj Date : 27-DEC-2004 11:29
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1204-1.0-GCSV~42XX~--63*20*4---herb 100
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:02 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 11:29 Cal File: SV8004.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

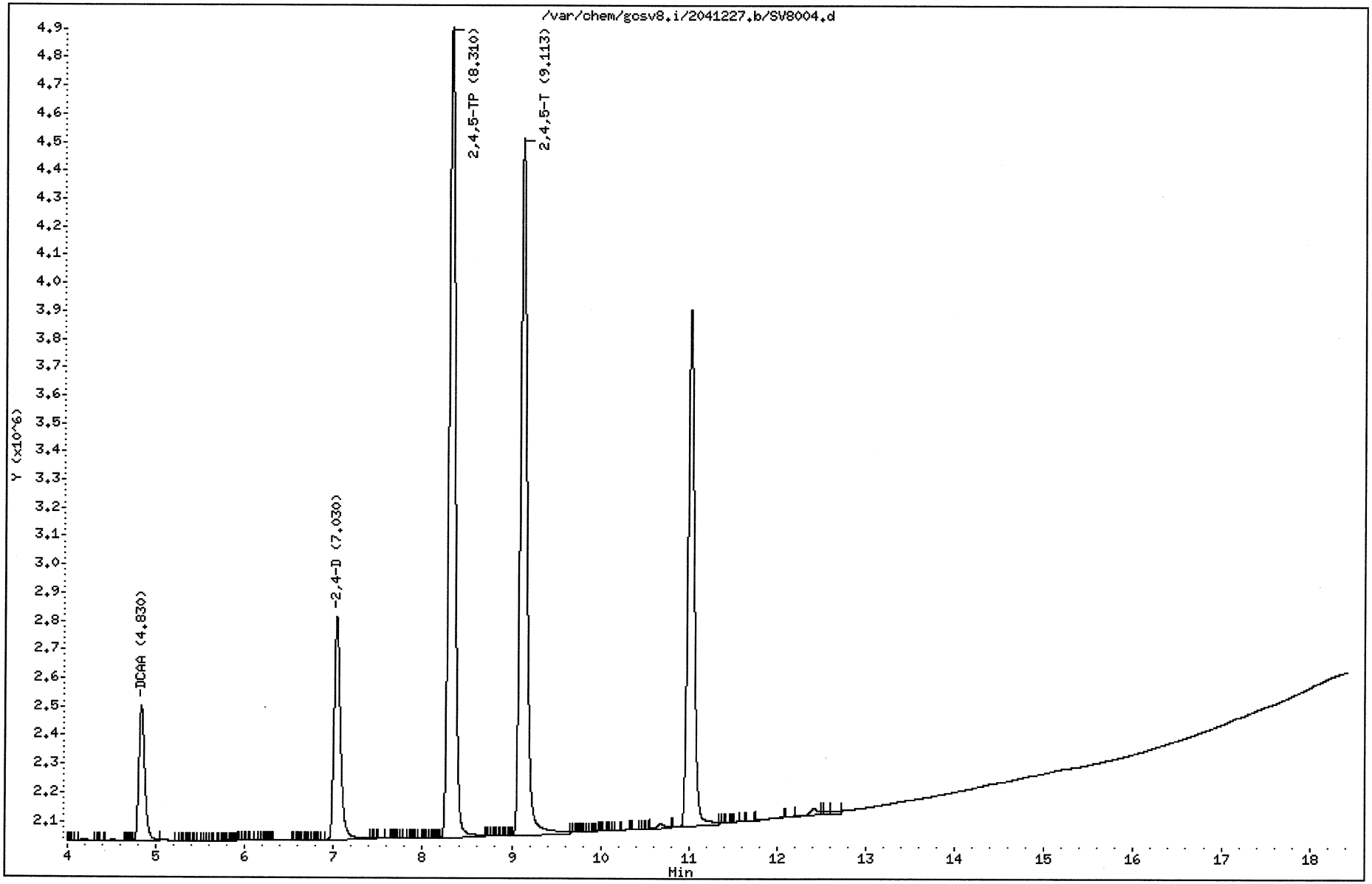
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.830	4.832	-0.002	2173131	94.3000	91.7
2 2,4-D	7.030	7.032	-0.002	3902870	94.3000	93.9
3 2,4,5-TP	8.310	8.307	0.003	13495467	94.3000	96.9
4 2,4,5-T	9.113	9.110	0.003	12345359	94.3000	97.2

Data File: /var/chem/gcsv8.i/2041227.b/SV8004.d
Date : 27-DEC-2004 11:29
Client ID:
Sample Info: 1204-1.0-GCSV^42XX^--63*20*4---herb 100
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000516



Data File: /var/chem/gcsv8.i/2041227.b/SV8005.d
Report Date: 28-Dec-2004 08:03

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8005.d
Lab Smp Id: 1205
Inj Date : 27-DEC-2004 11:52
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1205-1.0-GCSV~42XX~--63*20*4---herb 200
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:03 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 11:52 Cal File: SV8005.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

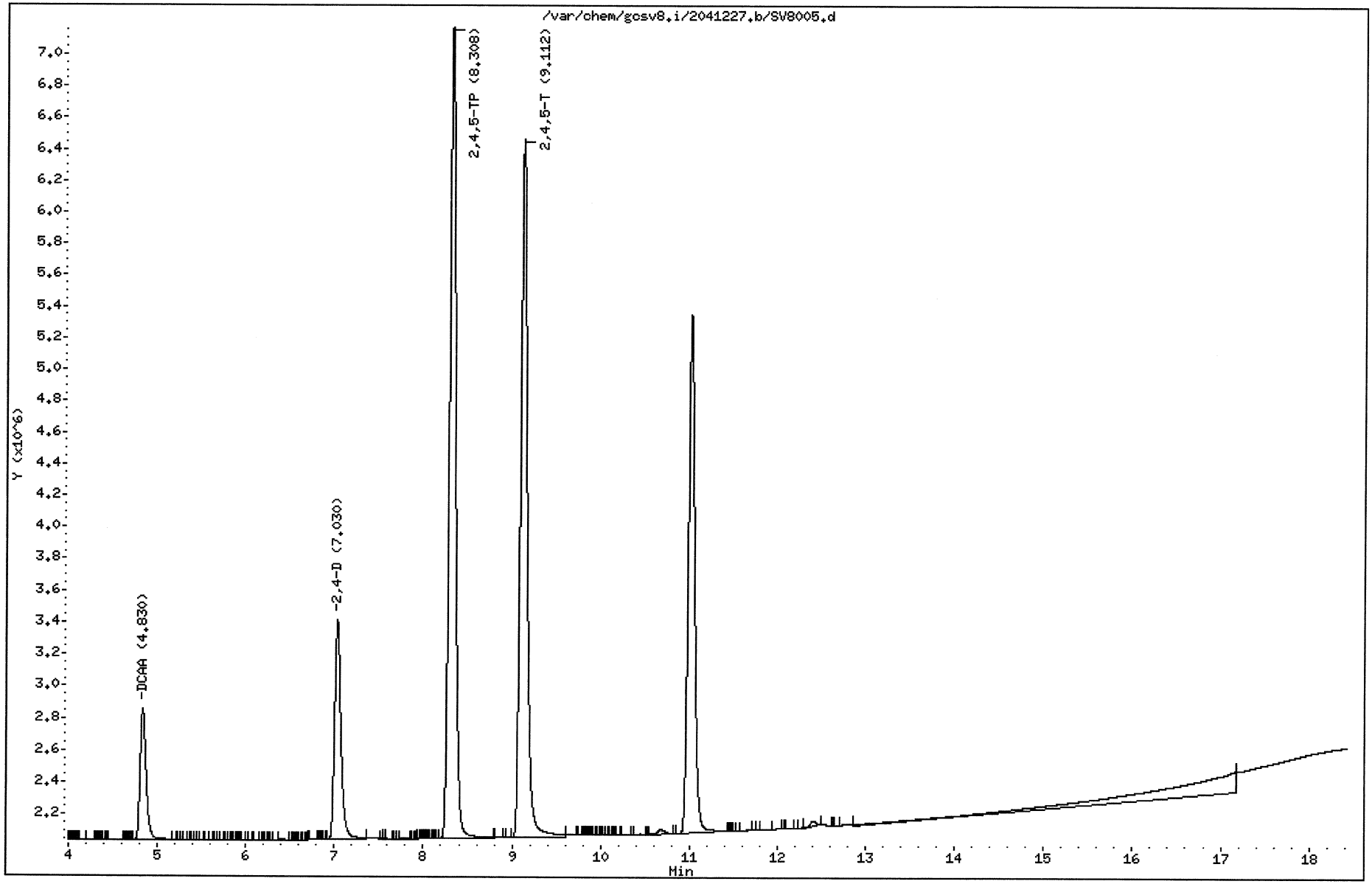
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.830	4.832	-0.002	3835016	188.700	162
2 2,4-D	7.030	7.032	-0.002	6850100	188.700	165
3 2,4,5-TP	8.308	8.307	0.001	24590498	188.700	176
4 2,4,5-T	9.112	9.110	0.002	22275316	188.700	175

Data File: /var/chem/gcsv8.i/2041227.b/SV8005.d
Date : 27-DEC-2004 11:52
Client ID:
Sample Info: 1205-1.0-GCSV"42XX"--63*20*4---herb 200
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i

Operator: sjt
Column diameter: 0.53

000518



Data File: /var/chem/gcsv8.i/2041227.b/SV8006.d
Report Date: 28-Dec-2004 08:03

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8006.d
Lab Smp Id: 1206
Inj Date : 27-DEC-2004 12:15
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1206-1.0-GCSV~42XX~--63*20*4---herb 400
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 08:03 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

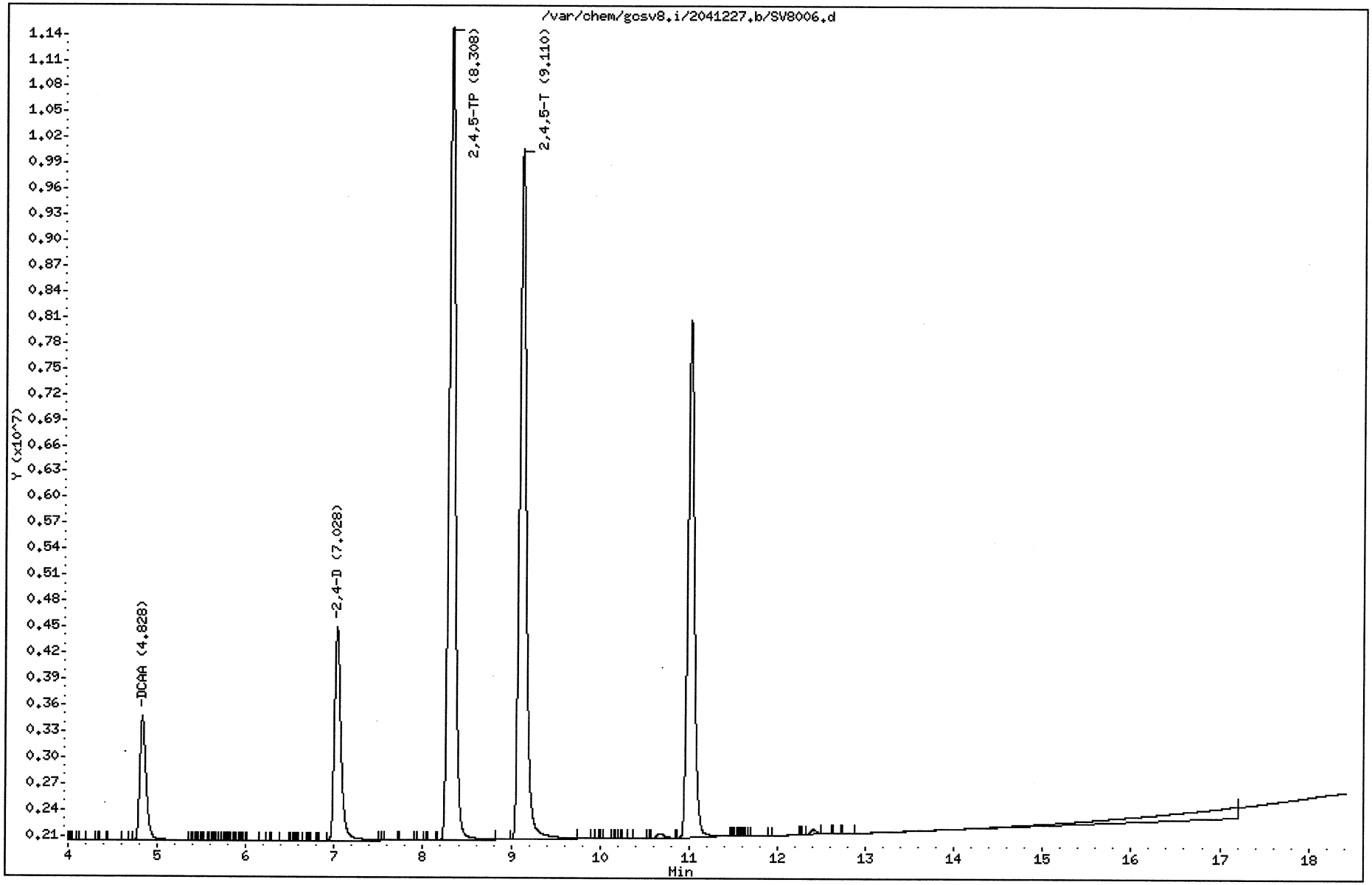
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.828	4.832	-0.004	6927165	377.400	292
2 2,4-D	7.028	7.032	-0.004	12395288	377.400	298
3 2,4,5-TP	8.308	8.307	0.001	45644178	377.400	328
4 2,4,5-T	9.110	9.110	0.000	40845855	377.400	322

Data File: /var/chem/gcsv8.i/2041227.b/SV8006.d
Date : 27-DEC-2004 12:15
Client ID:
Sample Info: 1206-1.0-GCSV~42XX~--63*20*4---herb 400
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i

Operator: sjt
Column diameter: 0.53

000520



Data File: /var/chem/gcsv8.i/2041227.b/SV8007.d
Report Date: 10-Jan-2005 15:59

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: H8151ICV.spk
Sublist File: ICV.sub
Method File: /var/chem/gcsv8.i/2041227.b/M8151.m
Misc Info:

Client SDG: 2041227
Fraction: SV

Operator: sjt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 2,4-D	100	93.5	93.50	85-115
3 2,4,5-TP	100	96.0	96.00	85-115
4 2,4,5-T	100	102	101.59	85-115

Data File: /var/chem/gcsv8.i/2041227.b/SV8007.d
Report Date: 10-Jan-2005 15:59

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041227.b/SV8007.d
Lab Smp Id: 1600
Inj Date : 27-DEC-2004 12:39
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1600-1.0-GCSV~42XX~--63*20*5---herb 100
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041227.b/M8151.m
Meth Date : 28-Dec-2004 09:02 sjt Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICV.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (uL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

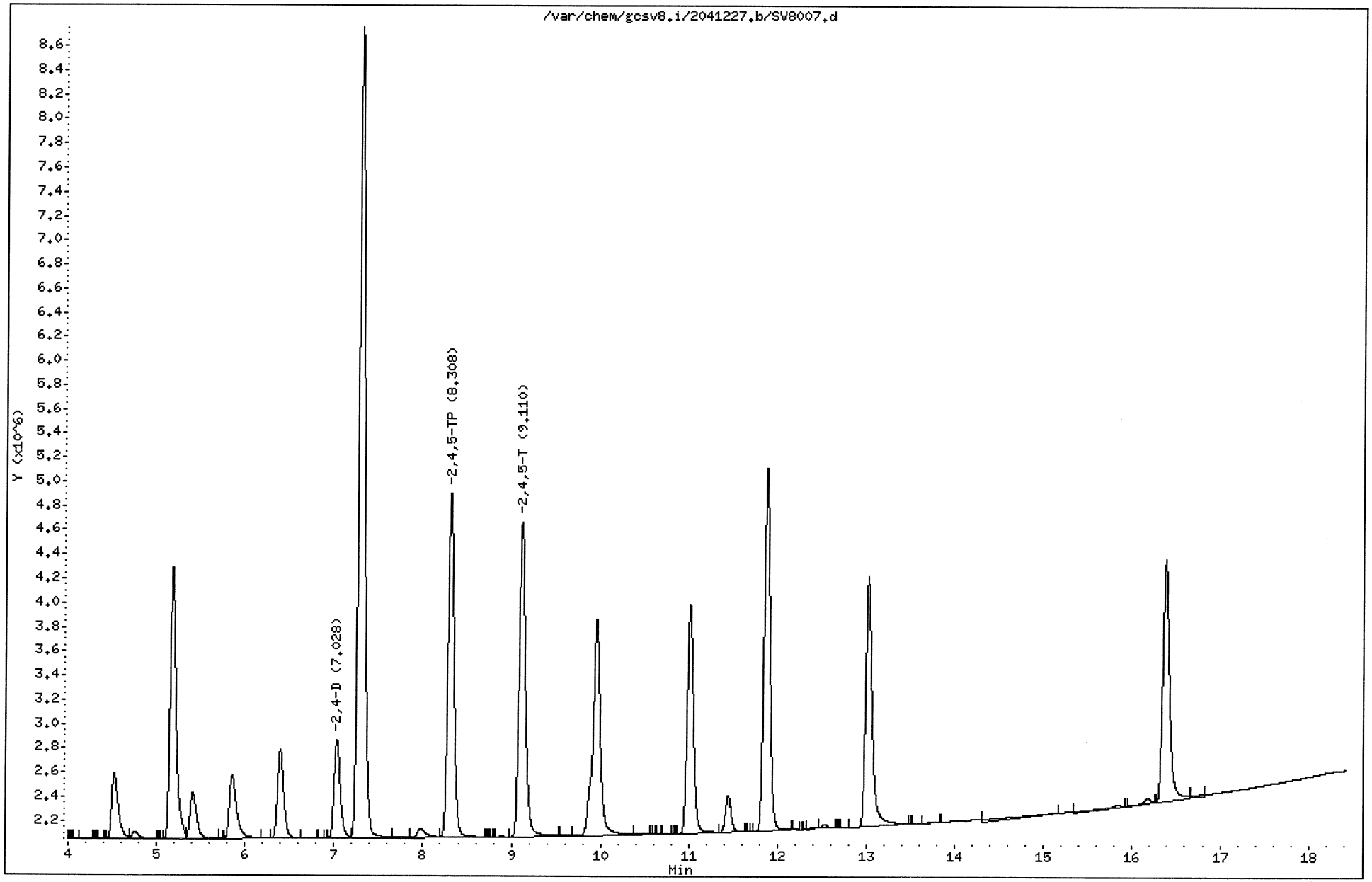
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/L)
2 2,4-D	7.028	7.035	-0.007	3887020	93.4986	93.5
3 2,4,5-TP	8.308	8.310	-0.002	13370079	96.0040	96.0
4 2,4,5-T	9.110	9.113	-0.003	12902330	101.586	102

Data File: /var/chem/gcsv8.i/2041227.b/SV8007.d
Date : 27-DEC-2004 12:39
Client ID:
Sample Info: 1600-1.0-GCSV^42XX^--63*20*5---herb 100
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i

Operator: sjt
Column diameter: 0.53

000523



Data File: /var/chem/gcsv8.i/2041230.b/SV8001.d
Report Date: 30-Dec-2004 12:59

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8001.d
Analysis Type: SOIL
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2041230.b/M8151.m

Injection Date: 30-DEC-2004 07:59
Init. Cal. Date(s): 27-DEC-2004 27-DEC-2004
Init. Cal. Times: 10:19 12:15
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF94	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 DCAA	23696	25828	0.010	-8.99998	15.00000	Averaged
2 2,4-D	41573	42128	0.010	-1.33431	15.00000	Averaged
3 2,4,5-TP	139266	149910	0.010	-7.64304	15.00000	Averaged
4 2,4,5-T	127008	131779	0.010	-3.75624	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.43339
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2041230.b/SV8001.d
Report Date: 30-Dec-2004 12:59

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8001.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 07:59
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1400-1.0-GCSV~42XX~--63*20*4---herb 100
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

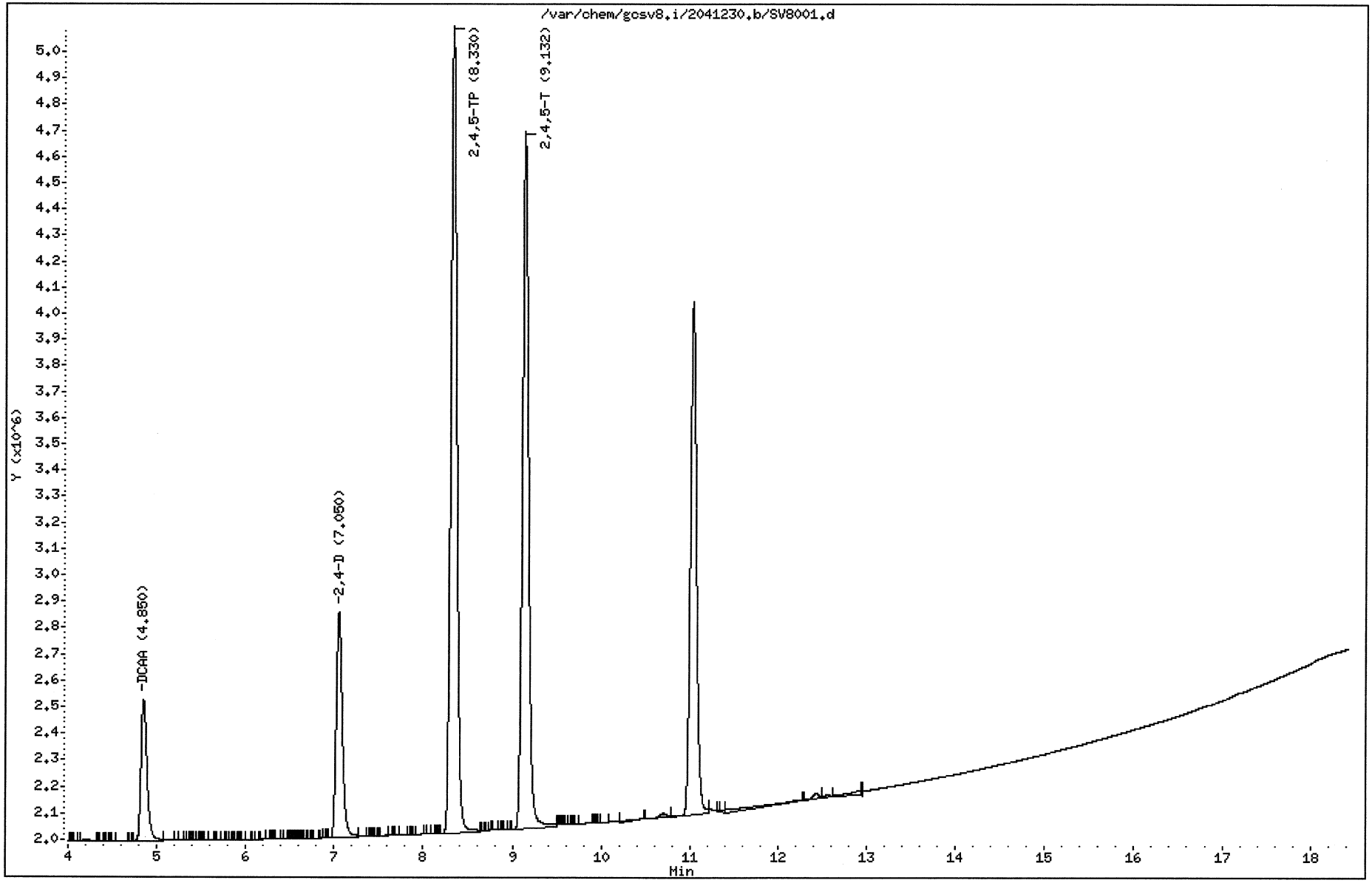
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.850	4.835	0.015	2435590	94.3000	103
2 2,4-D	7.050	7.035	0.015	3972644	94.3000	95.6
3 2,4,5-TP	8.330	8.310	0.020	14136520	94.3000	102
4 2,4,5-T	9.132	9.113	0.019	12426769	94.3000	97.8

Data File: /var/chem/gcsv8.i/2041230.b/SV8001.d
Date : 30-DEC-2004 07:59
Client ID:
Sample Info: 1400-1.0-GCSV^42XX^--63*20*4---herb 100
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000526



Data File: /var/chem/gcsv8.i/2041230.b/SV8008.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv8.i
Lab File ID: SV8008.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv8.i/2041230.b/M8151.m

Injection Date: 30-DEC-2004 12:28
Init. Cal. Date(s): 27-DEC-2004 27-DEC-2004
Init. Cal. Times: 10:19 12:15
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF94	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 DCAA	23696	24759	0.010	-4.48620	15.00000	Averaged
2 2,4-D	41573	44688	0.010	-7.49240	15.00000	Averaged
3 2,4,5-TP	139266	158040	0.010	-13.48078	15.00000	Averaged
4 2,4,5-T	127008	141906	0.010	-11.72966	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.29726
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv8.i/2041230.b/SV8008.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8008.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 12:28
Operator : sjt Inst ID: gcsv8.i
Smp Info : 1400-1.0-GCSV~42XX~--63*20*4---herb 100
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 13:00 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

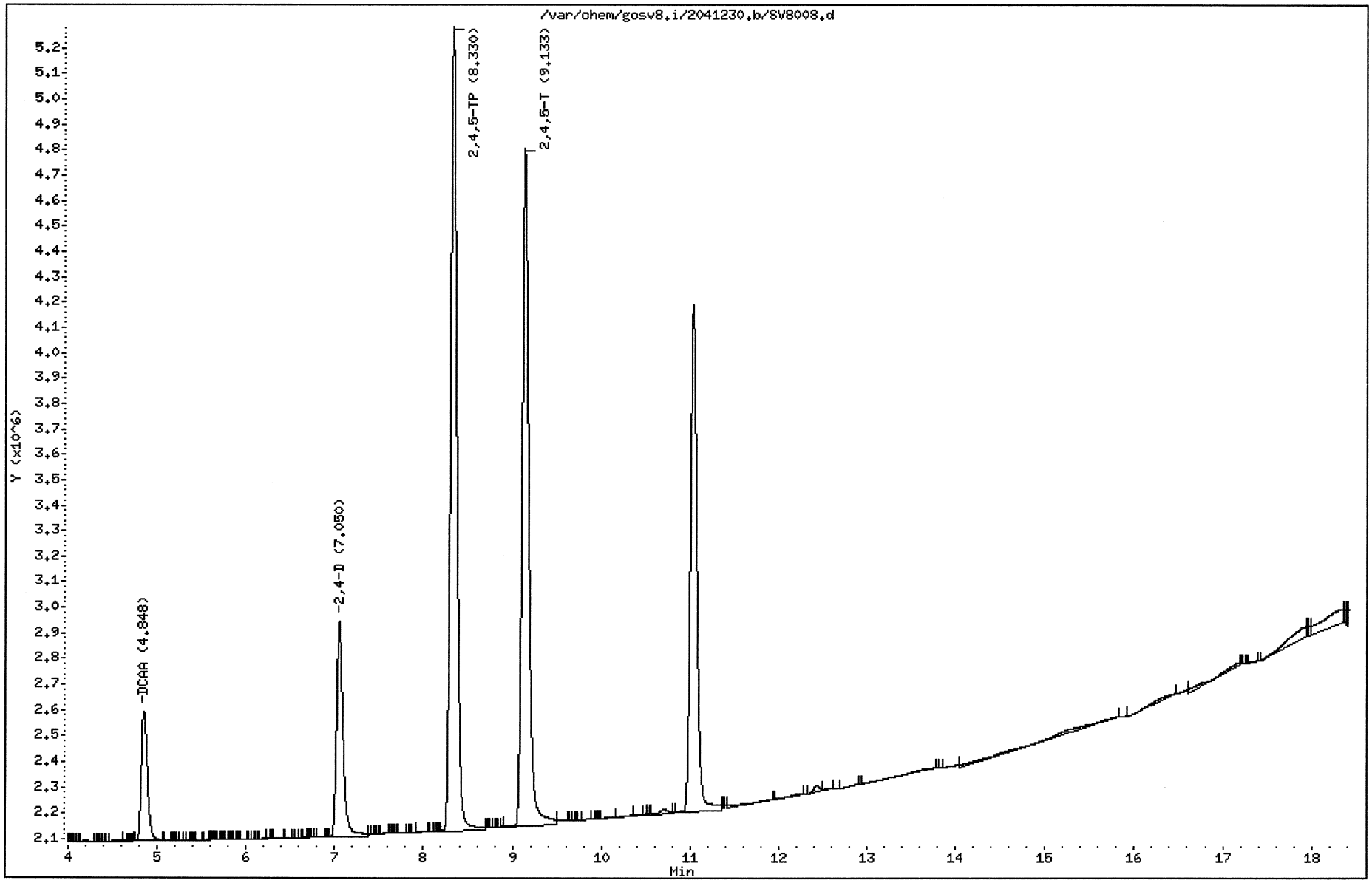
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
$ 1 DCAA	4.848	4.835	0.013	2334730	94.3000	98.5
2 2,4-D	7.050	7.035	0.015	4214062	94.3000	101
3 2,4,5-TP	8.330	8.310	0.020	14903177	94.3000	107
4 2,4,5-T	9.133	9.113	0.020	13381736	94.3000	105

Data File: /var/chem/gcsv8.i/2041230.b/SV8008.d
Date : 30-DEC-2004 12:28
Client ID:
Sample Info: 1400-1.0-GCSV"42XX"--63*20*4---herb 100
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i

Operator: sjt
Column diameter: 0.53



000529

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 30 Units: g

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 285561 Analytical Batch: 285608

Sample ID: MB215086

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 215086

Date Collected: Time:

Date Received:

Date Extracted: 12/29/04

Date Analyzed: 12/30/04 Time: 1008

Dilution Factor: 1 Analyst: SJT

Prep Method: SW-846 8151A

Analytical Method: SW-846 8151A

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2041230/SV8002

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	17.0	U	1.66	17.0
93-76-5	2,4,5-T	17.0	U	2.01	17.0
93-72-1	2,4,5-TP (SILVEX)	17.0	U	1.75	17.0

Data File: /var/chem/gcsv8.i/2041230.b/SV8002.d
Report Date: 30-Dec-2004 13:02

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8002.d
Lab Smp Id: 215086
Inj Date : 30-DEC-2004 10:08
Operator : sjt Inst ID: gcsv8.i
Smp Info : 215086-1.0-GCSV~45XX~--2041229blk---blk 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 13:00 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

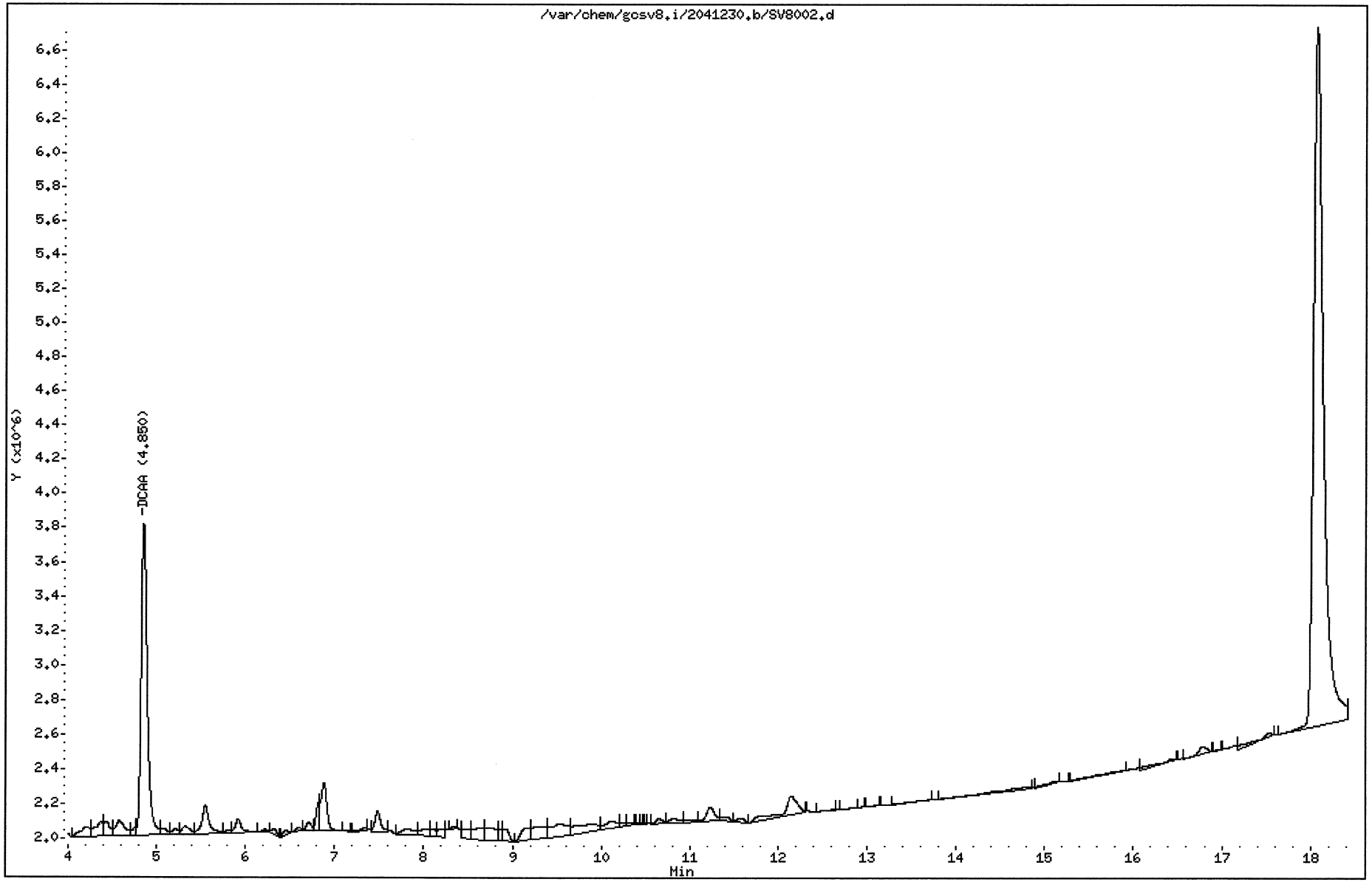
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
$ 1 DCAA	4.850	4.835	0.015	8573326	361.812	121

Data File: /var/chem/gcsv8.i/2041230.b/SV8002.d
Date : 30-DEC-2004 10:08
Client ID:
Sample Info: 215086-1.0-GCSV^45XX^--2041229blk---blk 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000532



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285561 Analytical Batch: 285608

Sample ID: LCS215087
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215087
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1031
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2041230/SV8003

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	44.4		1.66	17.0
93-76-5	2,4,5-T	52.2		2.01	17.0
93-72-1	2,4,5-TP (SILVEX)	54.1		1.75	17.0

Data File: /var/chem/gcsv8.i/2041230.b/SV8003.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8003.d
Lab Smp Id: 215087
Inj Date : 30-DEC-2004 10:31
Operator : sjt Inst ID: gcsv8.i
Smp Info : 215087-1.0-GCSV~45XX~--2041229lcs---lcs 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

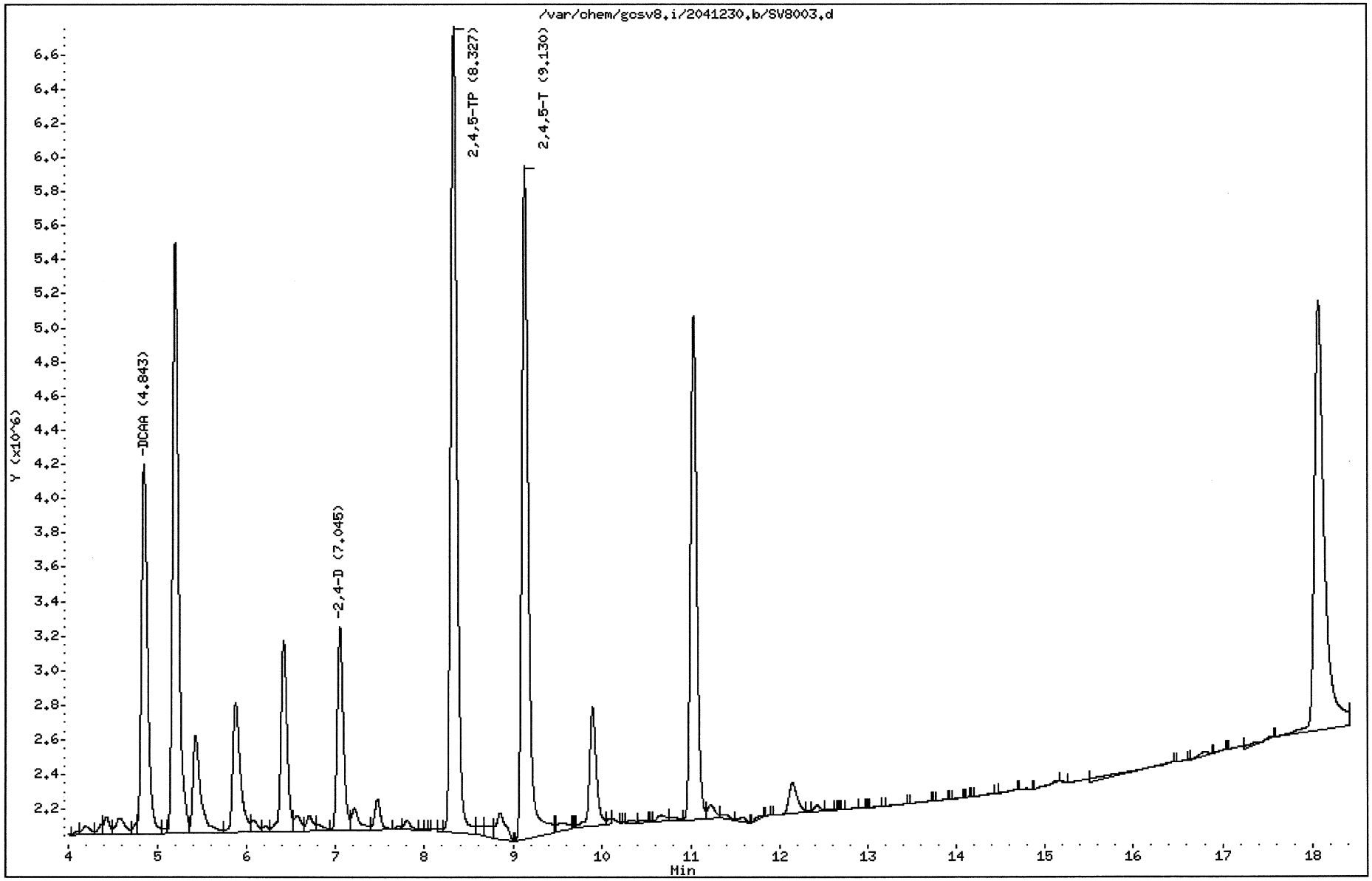
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
$ 1 DCAA	4.843	4.835	0.008	10111589	426.730	142
2 2,4-D	7.045	7.035	0.010	5538196	133.216	44.4
3 2,4,5-TP	8.327	8.310	0.017	22587303	162.188	54.1
4 2,4,5-T	9.130	9.113	0.017	19894153	156.637	52.2

Data File: /var/chem/gcsv8.i/2041230.b/SV8003.d
Date : 30-DEC-2004 10:31
Client ID:
Sample Info: 215087-1.0-GCSV~45XX~--20412291cs---lcs 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000535



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285561 Analytical Batch: 285608

Sample ID: LCSD215088
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215088
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1055
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2041230/SV8004

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	42.7		1.66	17.0
93-76-5	2,4,5-T	52.1		2.01	17.0
93-72-1	2,4,5-TP (SILVEX)	55.5		1.75	17.0

Data File: /var/chem/gcsv8.i/2041230.b/SV8004.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8004.d
Lab Smp Id: 215088
Inj Date : 30-DEC-2004 10:55
Operator : sjt Inst ID: gcsv8.i
Smp Info : 215088-1.0-GCSV~45XX~--2041229lcsd---lcsd 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

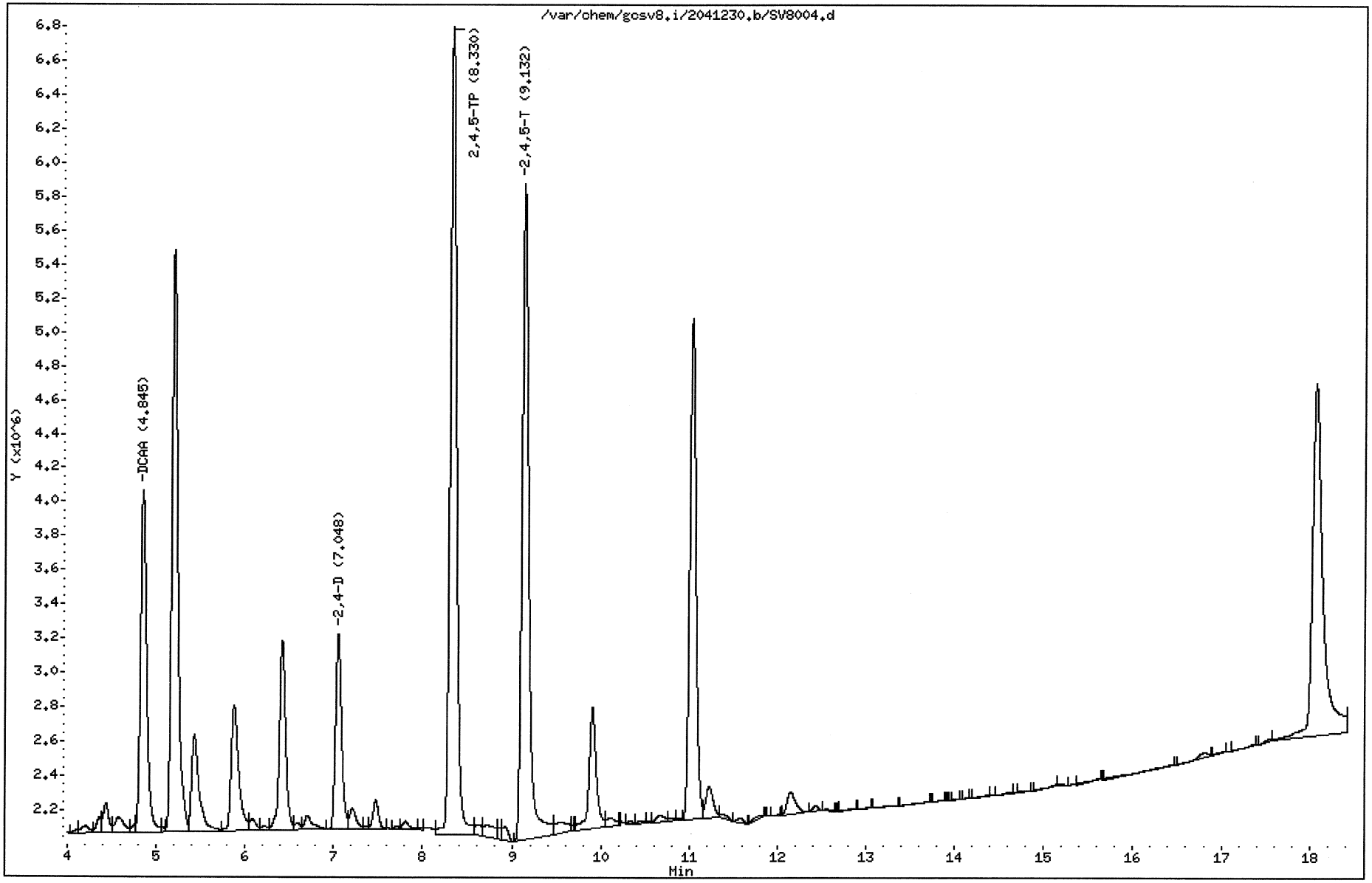
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
$ 1 DCAA	4.845	4.835	0.010	9563417	403.596	134
2 2,4-D	7.048	7.035	0.013	5323288	128.047	42.7
3 2,4,5-TP	8.330	8.310	0.020	23174307	166.403	55.5
4 2,4,5-T	9.132	9.113	0.019	19870151	156.448	52.1

Data File: /var/chem/gcsv8.i/2041230.b/SV8004.d
Date : 30-DEC-2004 10:55
Client ID:
Sample Info: 215088-1.0-GCSV^45XX^--20412291csd---lcsd 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000538



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285561 Analytical Batch: 285608

Sample ID: 001-NFF-BFC-S-122...MS
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215089
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1141
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2041230/SV8006

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	29.9		1.87	19.1
93-76-5	2,4,5-T	38.6		2.26	19.1
93-72-1	2,4,5-TP (SILVEX)	39.2		1.97	19.1

Data File: /var/chem/gcsv8.i/2041230.b/SV8006.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8006.d
Lab Smp Id: 215089
Inj Date : 30-DEC-2004 11:41
Operator : sjt Inst ID: gcsv8.i
Smp Info : 215089-1.0-GCSV~45XX~--2041229ms---4380 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

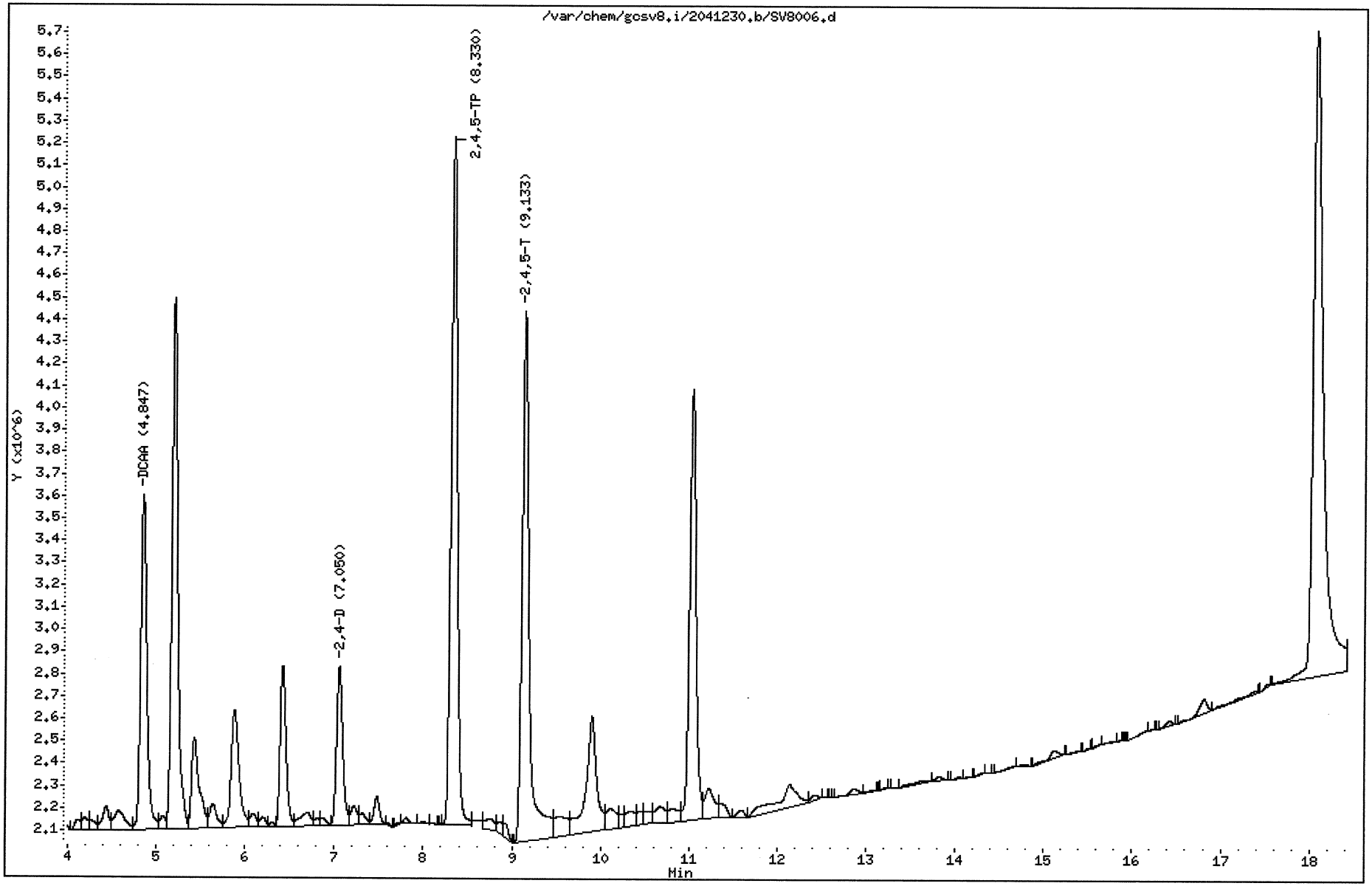
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 DCAA	4.847	4.835	0.012	7107976	299.971	100
2 2,4-D	7.050	7.035	0.015	3315133	79.7424	26.6
3 2,4,5-TP	8.330	8.310	0.020	14564370	104.580	34.8
4 2,4,5-T	9.133	9.113	0.020	13080538	102.990	34.3

Data File: /var/chem/gcsv8.i/2041230.b/SV8006.d
Date : 30-DEC-2004 11:41
Client ID:
Sample Info: 215089-1.0-GCSV^45XX^--2041229ms---4380 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000541



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285561 Analytical Batch: 285608

Sample ID: 001-NFF-BFC-S-12...MSD
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215090
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1204
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2041230/SV8007

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	30.8		1.87	19.1
93-76-5	2,4,5-T	39.3		2.26	19.1
93-72-1	2,4,5-TP (SILVEX)	40.1		1.97	19.1

Data File: /var/chem/gcsv8.i/2041230.b/SV8007.d
Report Date: 30-Dec-2004 13:00

GCAL, Inc.

Data file : /var/chem/gcsv8.i/2041230.b/SV8007.d
Lab Smp Id: 215090
Inj Date : 30-DEC-2004 12:04
Operator : sjt Inst ID: gcsv8.i
Smp Info : 215090-1.0-GCSV~45XX~--2041229msd---4380 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv8.i/2041230.b/M8151.m
Meth Date : 30-Dec-2004 12:59 dlb Quant Type: ESTD
Cal Date : 27-DEC-2004 12:15 Cal File: SV8006.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (uL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

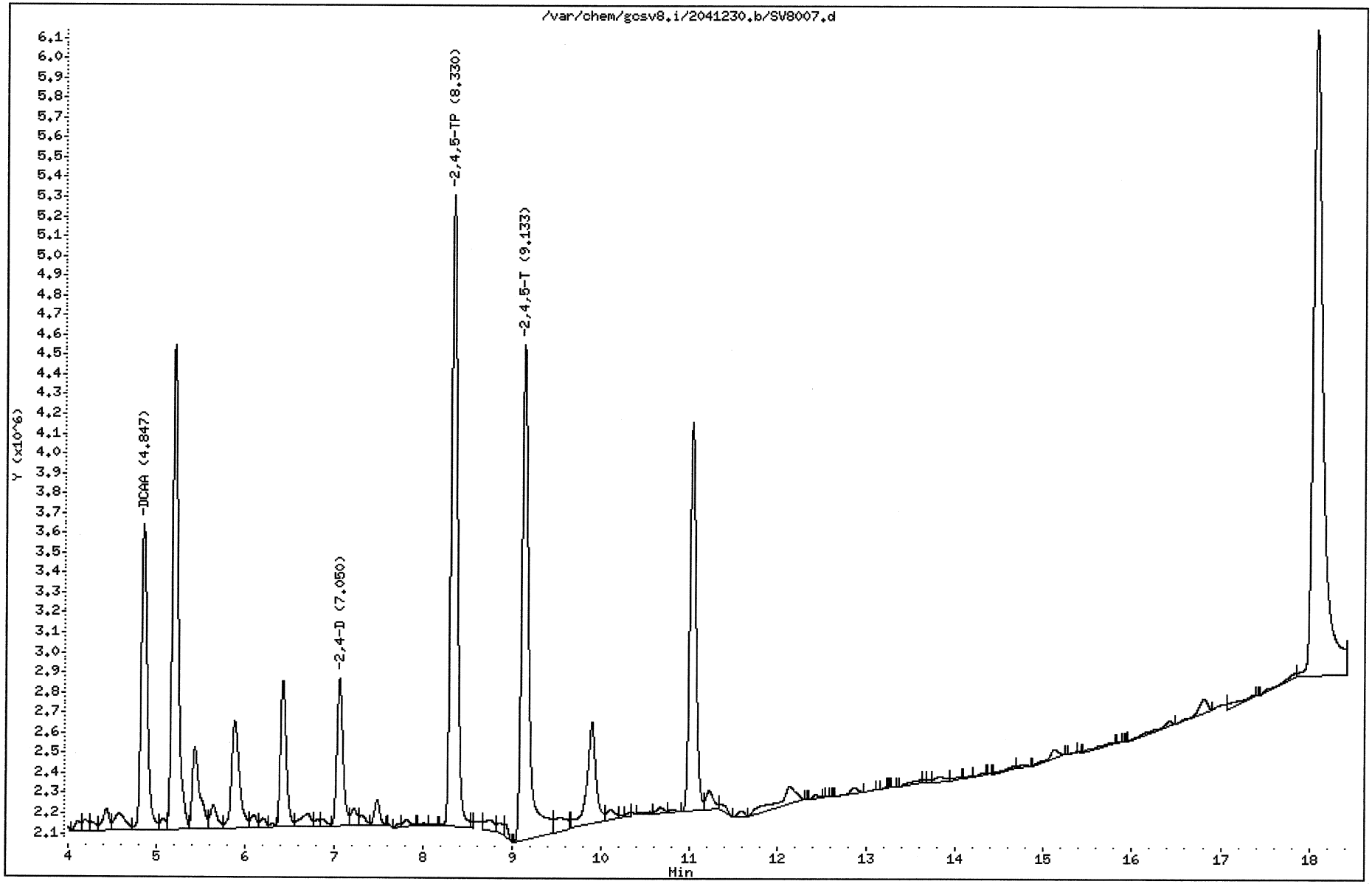
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
$ 1 DCAA	4.847	4.835	0.012	7192073	303.521	101
2 2,4-D	7.050	7.035	0.015	3422004	82.3131	27.4
3 2,4,5-TP	8.330	8.310	0.020	14933173	107.228	35.7
4 2,4,5-T	9.133	9.113	0.020	13334422	104.989	35.0

Data File: /var/chem/gcsv8.i/2041230.b/SV8007.d
Date : 30-DEC-2004 12:04
Client ID:
Sample Info: 215090-1.0-GCSV^45XX^--2041229msd---4380 30 10
Volume Injected (uL): 1.0
Column phase: RTX-1701-30M

Instrument: gcsv8.i
Operator: sjt
Column diameter: 0.53

000544



HERBICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	12-29-4 11:00	BATCH NO:	285561
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 285561 [EXTO/6829]	215086	30.0	10.0			LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 285561 [EXTO/6829]	215087	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 285561 [EXTO/6829	215088	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	001-NFF-BFC-S-1228-04	20412290201	30.0	10.0			
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	215089	30.0	10.0			
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	215090	30.0	10.0			
7								SONICATOR/3550
8								
9								SHAKER
10								
11								
12								
13								WASTE DILUTION/3580
14								
15								
16								
17								
18								
19								
20								
21								Diazomethane Log No: 1-87-3
22								
23								Sodium Sulfate Lot No: 040859
24								
25								ETHER 6
26								
27								METHYLENE CHLORIDE 042721
28								

12-29-4 VDA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

HERB SURR ID	9-9-7	MATRIX SPIKE ID	9-13-1			TECHNICIAN	DATE
VOLUME	200ml	VOLUME	200 ml			Jody Aucoin	12-29-4
CONCENTRATION	20 ug/ml	CONCENTRATION	10 ug/ml				
						SUPERVISOR	DATE
E WITNESS	JWB					John Bailey	01/03/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 12/27/2004
Instrument: gcsv8.i
Method File: /var/chem/gcsv8.i/2041227.b/M8151.m
Batch: /var/chem/gcsv8.i/2041227.b
Column-Detector: RTX-1701-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1201		SV8001.d	27-DEC-2004 10:19	1.000	sjt	
1202		SV8002.d	27-DEC-2004 10:43	1.000	sjt	
1203		SV8003.d	27-DEC-2004 11:06	1.000	sjt	
1204		SV8004.d	27-DEC-2004 11:29	1.000	sjt	
1205		SV8005.d	27-DEC-2004 11:52	1.000	sjt	
1206		SV8006.d	27-DEC-2004 12:15	1.000	sjt	
1600		SV8007.d	27-DEC-2004 12:39	1.000	sjt	
214412		SV8008.d	27-DEC-2004 13:07	1.000	sjt	
214413		SV8009.d	27-DEC-2004 13:31	1.000	sjt	
214414		SV8010.d	27-DEC-2004 13:54	1.000	sjt	
1400		SV8011.d	27-DEC-2004 15:05	1.000	sjt	
20412220502		SV8012.d	27-DEC-2004 15:28	1.000	sjt	
20412220503		SV8013.d	27-DEC-2004 15:51	1.000	sjt	
20412220504		SV8014.d	27-DEC-2004 16:14	1.000	sjt	
214415		SV8015.d	27-DEC-2004 16:38	1.000	sjt	
214416		SV8016.d	27-DEC-2004 17:01	1.000	sjt	
1400		SV8017.d	27-DEC-2004 17:24	1.000	sjt	

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
1016/1260 III	63-20-1	8082 Mix 1000ug/ml Pest Surr 200 ug/ml	NSI	C-496-03 exp 4-06 C-194-06 exp 10-05	40 ul 20 ul	100 ml	40/400 ppb	hexane 034439	SJT	11-08-04	5-7-05
1016/1260 V	63-20-2	8082 Mix 1000ug/ml Pest Surr 200ug/ml	NSI ~~NASI~~ SJT 11/8	C-496-03 exp 4-06 C-194-06 exp 10-05	80 ul 40 ul	50 ml	160/1600 ppb	hexane 034439	SJT	11-08-04	5-7-05
Dinoseb	63-20-3	Dinoseb 32252	Restek	A631866 exp-5/06	1 mL	10 mL	100ppm	Hexane 034439	TLS	11-10 04	5-10-05
Short Herb List/w. Dinoseb	63-20-4	Q2870 100ug/ml Dinoseb 100ug/ml	NSI -In house	042103-01 4/05	200 uL 200 uL	50 mL	400ppb	Hexane 034439	TLS	11-10-04	3-30-05
Ext. Herb ICV	63-20-5	HBM 8151m 100ug/m	UltrA	T-1259 10/2005	50 ul	50 mL	100ppb	Hexane 034439	TLS	11-10-04	5-10-05
1016/1260 2nd Source	63-20-6	In house 8-299-3 4ug/mL	In house	8-299-3 (extract) 12/30/04	1 mL	10 mL	400 ppb	Hexane 034439	dlb	11-11-04	12-30-04
Deg	63-20-7	M-8081-DS 0.2mg/ml	Accu Standard	B3050264 Exp. 5/26/05	20 ul	50 mL	80 ppb	Hexane 034439	HJL	11-13-04	5-12-05
IND A III	63-20-8	Q4105 5/10 ug/mL	NSI	092004-01 09/2005	600 uL	50 mL	60/120 ppb	hexane 034439	dlb	11-14-04	05-13-05
IND B III	63-20-9	Q4106 5/10 ug/mL	NSI	092004-01 09/2005	600 uL	50 mL	60/120 ppb	hexane 034439	dlb	11-14-04	05-13-05
Oil V	63-20-10	Dusk Motor Oil 50,000 ug/ml 8-Terphenyl 10000 ug/ml	SJT 11/16/04 ~~HA~~ NSI	UST-185-02 exp 3/06 13411H-02-06 exp 5/7	1 mL 100 uL	10 mL	5000/100 ppm	DCM 036929	SJT	11-16-04 036929	05-15-05

000047

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 12/30/2004
Instrument: gcsv8.i
Method File: /var/chem/gcsv8.i/2041230.b/M8151.m
Batch: /var/chem/gcsv8.i/2041230.b
Column-Detector: RTX-1701-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		SV8001.d	30-DEC-2004 07:59	1.000	sjt	
215086		SV8002.d	30-DEC-2004 10:08	1.000	sjt	
215087		SV8003.d	30-DEC-2004 10:31	1.000	sjt	
215088		SV8004.d	30-DEC-2004 10:55	1.000	sjt	
20412290201		SV8005.d	30-DEC-2004 11:18	1.000	sjt	
215089		SV8006.d	30-DEC-2004 11:41	1.000	sjt	
215090		SV8007.d	30-DEC-2004 12:04	1.000	sjt	
1400		SV8008.d	30-DEC-2004 12:28	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

GC Column (1) : RTX-50-30M ID: .53 (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8081

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 001-NFF-BFC-S-1228-04	76				77				0
2. MB214969	89				101				0
3. LCS214970	96				97				0
4. LCSD214971	102				100				0
5. 001-NFF-BFC-S-122...MS	77				71				0
6. 001-NFF-BFC-S-12...MSD	82				82				0

		CONTROL LIMITS	
SMC 1 :	Tetrachloro-m-xylene	52	151
SMC 2 :	Decachlorobiphenyl	56	159

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8081

Prep Batch: 285540 Analytical Batch: 285639

Spike HSN : 214972

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/kg	18.8	0	13.6	73		31 - 141
4,4'-DDE	ug/kg	18.8	0	15.5	83		30 - 145
4,4'-DDT	ug/kg	18.8	0	15.3	82		23 - 134
Aldrin	ug/kg	18.8	0	16.4	88		35 - 132
Dieldrin	ug/kg	18.8	0	16	85		31 - 134
Endosulfan I	ug/kg	18.8	0	9.16	49		45 - 153
Endosulfan II	ug/kg	18.8	0	12	64		0 - 202
Endosulfan sulfate	ug/kg	18.8	0	12.3	65		26 - 144
Endrin	ug/kg	18.8	0	14.8	79		42 - 139
Endrin aldehyde	ug/kg	18.8	0	17.9	95		0 - 202
Endrin ketone	ug/kg	18.8	0	12.8	68		26 - 144
Heptachlor	ug/kg	18.8	0	17.4	93		35 - 130
Heptachlor epoxide	ug/kg	18.8	0	17.1	91		37 - 142
Methoxychlor	ug/kg	18.8	0	15.4	82		26 - 144
alpha-BHC	ug/kg	18.8	0	14.3	76		37 - 134
alpha-Chlordane	ug/kg	18.8	0	17.8	95		45 - 119
beta-BHC	ug/kg	18.8	0	17.2	92		17 - 147
delta-BHC	ug/kg	18.8	0	17.6	94		19 - 140
gamma-BHC (Lindane)	ug/kg	18.8	0	17.4	93		46 - 127
gamma-Chlordane	ug/kg	18.8	0	21.1	113		45 - 119

RPD : 1 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8081

Prep Batch: 285540 Analytical Batch: 285639

Spike Dupe HSN : 214973

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/kg	18.8	13.8	74		2		31 - 141	0 - 40
4,4'-DDE	ug/kg	18.8	14.6	78		6		30 - 145	0 - 40
4,4'-DDT	ug/kg	18.8	16.6	89		8		23 - 134	0 - 40
Aldrin	ug/kg	18.8	16.6	89		1		35 - 132	0 - 40
Dieldrin	ug/kg	18.8	16.1	86		.7		31 - 134	0 - 40
Endosulfan I	ug/kg	18.8	13.5	72		38		45 - 153	0 - 40
Endosulfan II	ug/kg	18.8	12.6	67		5		0 - 202	0 - 40
Endosulfan sulfate	ug/kg	18.8	13.3	71		8		26 - 144	0 - 40
Endrin	ug/kg	18.8	13.8	74		7		42 - 139	0 - 40
Endrin aldehyde	ug/kg	18.8	18.5	99		4		0 - 202	0 - 40
Endrin ketone	ug/kg	18.8	14.3	76		11		26 - 144	0 - 40
Heptachlor	ug/kg	18.8	10.8	58		47	*	35 - 130	0 - 40
Heptachlor epoxide	ug/kg	18.8	19.1	102		11		37 - 142	0 - 40
Methoxychlor	ug/kg	18.8	17.2	92		11		26 - 144	0 - 40
alpha-BHC	ug/kg	18.8	15.3	82		7		37 - 134	0 - 40
alpha-Chlordane	ug/kg	18.8	18.3	98		3		45 - 119	0 - 40
beta-BHC	ug/kg	18.8	23.4	125		30		17 - 147	0 - 40
delta-BHC	ug/kg	18.8	16.3	87		8		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/kg	18.8	15.6	83		11		46 - 127	0 - 40
gamma-Chlordane	ug/kg	18.8	15	80		34		45 - 119	0 - 40

RPD : 1 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8081

Prep Batch: 285540 Analytical Batch: 285639

Spike HSN : 214970

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/kg	16.7	0	15.9	95		31 - 141
4,4'-DDE	ug/kg	16.7	0	14.7	88		30 - 145
4,4'-DDT	ug/kg	16.7	0	17.9	107		23 - 134
Aldrin	ug/kg	16.7	0	17.1	103		35 - 132
Dieldrin	ug/kg	16.7	0	16.2	97		31 - 134
Endosulfan I	ug/kg	16.7	0	13.6	82		45 - 153
Endosulfan II	ug/kg	16.7	0	13.9	83		0 - 202
Endosulfan sulfate	ug/kg	16.7	0	14.5	87		26 - 144
Endrin	ug/kg	16.7	0	16.4	98		42 - 139
Endrin aldehyde	ug/kg	16.7	0	20.7	124		0 - 202
Endrin ketone	ug/kg	16.7	0	15.9	95		26 - 144
Heptachlor	ug/kg	16.7	0	14.9	89		35 - 130
Heptachlor epoxide	ug/kg	16.7	0	18	108		37 - 142
Methoxychlor	ug/kg	16.7	0	18.1	109		26 - 144
alpha-BHC	ug/kg	16.7	0	15.5	93		37 - 134
alpha-Chlordane	ug/kg	16.7	0	15.9	95		45 - 119
beta-BHC	ug/kg	16.7	0	17.8	107		17 - 147
delta-BHC	ug/kg	16.7	0	17	102		19 - 140
gamma-BHC (Lindane)	ug/kg	16.7	0	17.3	104		46 - 127
gamma-Chlordane	ug/kg	16.7	0	15.1	91		45 - 119

RPD : 1 out of 20 outside limits

Spike Recovery: 1 out of 40 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: SW-846 8081

Prep Batch: 285540 Analytical Batch: 285639

Spike Dupe HSN : 214971

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/kg	16.7	16.2	97		2		31 - 141	0 - 40
4,4'-DDE	ug/kg	16.7	15.4	92		5		30 - 145	0 - 40
4,4'-DDT	ug/kg	16.7	18.4	110		3		23 - 134	0 - 40
Aldrin	ug/kg	16.7	17.8	107		4		35 - 132	0 - 40
Dieldrin	ug/kg	16.7	17	102		5		31 - 134	0 - 40
Endosulfan I	ug/kg	16.7	16.8	101		21		45 - 153	0 - 40
Endosulfan II	ug/kg	16.7	14.1	85		1		0 - 202	0 - 40
Endosulfan sulfate	ug/kg	16.7	14.8	89		2		26 - 144	0 - 40
Endrin	ug/kg	16.7	17.2	103		5		42 - 139	0 - 40
Endrin aldehyde	ug/kg	16.7	19.8	119		4		0 - 202	0 - 40
Endrin ketone	ug/kg	16.7	16.1	97		1		26 - 144	0 - 40
Heptachlor	ug/kg	16.7	16.2	97		8		35 - 130	0 - 40
Heptachlor epoxide	ug/kg	16.7	18.7	112		4		37 - 142	0 - 40
Methoxychlor	ug/kg	16.7	18.3	110		1		26 - 144	0 - 40
alpha-BHC	ug/kg	16.7	16.6	100		7		37 - 134	0 - 40
alpha-Chlordane	ug/kg	16.7	15.2	91		5		45 - 119	0 - 40
beta-BHC	ug/kg	16.7	17.9	107		.6		17 - 147	0 - 40
delta-BHC	ug/kg	16.7	17.6	106		3		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/kg	16.7	18.4	110		6		46 - 127	0 - 40
gamma-Chlordane	ug/kg	16.7	22.9	137	*	41	*	45 - 119	0 - 40

RPD : 1 out of 20 outside limits

Spike Recovery: 1 out of 40 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab Sample ID: 214969

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Analyzed (1): 12/31/04 Time (1): 0059

Instrument ID (1): GCS11B

GC Column (1): RTX-50-30M ID: .53 (mm)

Method: SW-846 8081

Lab File ID: 2041229/SV1103

Sample ID: MB214969

Contract:

SAS No.: SDG No.: 204122902

Date Extracted: 12/29/04

Date Analyzed (2): Time (2):

Instrument ID (2):

GC Column (2): ID: (mm)

Prep Batch: 285540 Analytical Batch: 285639

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS214970	214970	12/31/04	0131		
2.	LCSD214971	214971	12/31/04	0203		
3.	001-NFF-BFC-S-1228-04	20412290201	12/31/04	0338		
4.	001-NFF-BFC-S-122...MS	214972	12/31/04	0409		
5.	001-NFF-BFC-S-12...MSD	214973	12/31/04	0441		

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 11 decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: 001-NFF-BFC-S-1228-04
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 20412290201
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0338
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11035

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.50	U	0.528	4.50
72-55-9	4,4'-DDE	4.50	U	0.731	4.50
50-29-3	4,4'-DDT	4.50	U	0.281	4.50
309-00-2	Aldrin	2.25	U	0.360	2.25
60-57-1	Dieldrin	4.50	U	0.315	4.50
959-98-8	Endosulfan I	2.25	U	0.382	2.25
33213-65-9	Endosulfan II	4.50	U	0.630	4.50
1031-07-8	Endosulfan sulfate	4.50	U	0.596	4.50
72-20-8	Endrin	4.50	U	0.382	4.50
7421-93-4	Endrin aldehyde	4.50	U	0.753	4.50
53494-70-5	Endrin ketone	4.50	U	0.944	4.50
76-44-8	Heptachlor	2.25	U	0.236	2.25
1024-57-3	Heptachlor epoxide	2.25	U	0.798	2.25
72-43-5	Methoxychlor	22.5	U	1.41	22.5
8001-35-2	Toxaphene	225	U	10.5	225
319-84-6	alpha-BHC	2.25	U	0.360	2.25
5103-71-9	alpha-Chlordane	2.25	U	0.405	2.25
319-85-7	beta-BHC	4.50	U	0.607	4.50
319-86-8	delta-BHC	2.25	U	0.360	2.25
58-89-9	gamma-BHC (Lindane)	2.25	U	0.708	2.25
5103-74-2	gamma-Chlordane	2.25	U	0.495	2.25

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11035.d
Lab Smp Id: 20412290201
Inj Date : 31-DEC-2004 03:38
Operator : tls Inst ID: gcsv11.i
Smp Info : 20412290201-1.0-GCSV~45XX~-204122902--4380 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 35
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

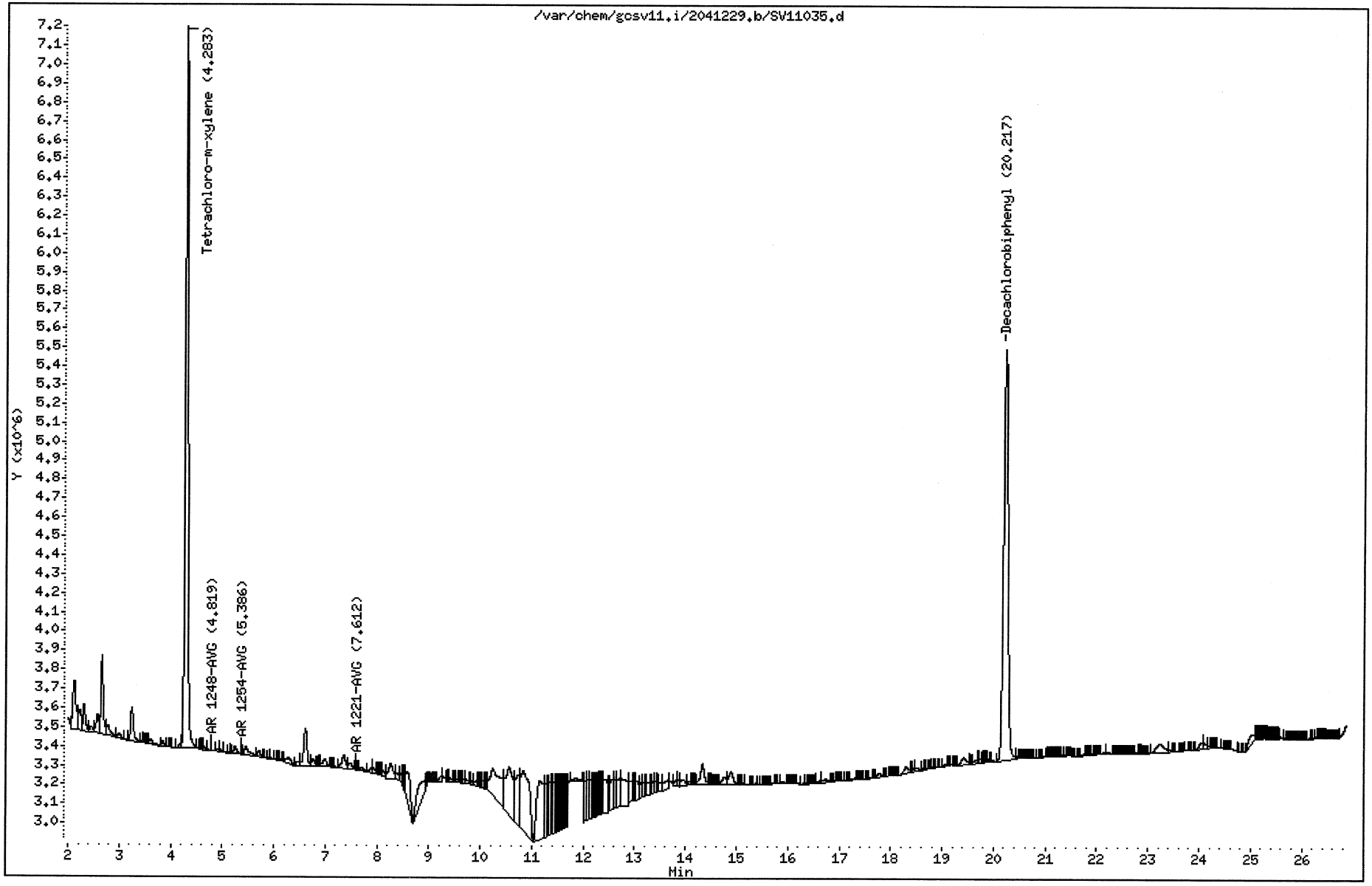
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.283	0.000	13694576	37.8814	12.6271
$ 22 Decachlorobiphenyl	20.217	20.216	0.001	12350262	38.3362	12.7787

Data File: /var/chem/gcsv11.i/2041229.b/SV11035.d
Date : 31-DEC-2004 03:38
Client ID:
Sample Info: 20412290201-1.0-GCSV^45XX^-204122902--4380 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000557



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 10-Jan-2005 16:14 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv11.i/2041229.b/SV11021.d
Level 2: /var/chem/gcsv11.i/2041229.b/SV11022.d
Level 3: /var/chem/gcsv11.i/2041229.b/SV11023.d
Level 4: /var/chem/gcsv11.i/2041229.b/SV11024.d
Level 5: /var/chem/gcsv11.i/2041229.b/SV11028.d

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	516482	488368	616801	535716	506189	532711	9.392
	3 gamma-BHC (Lindane)	486592	440391	545700	466503	439976	475832	9.176
	4 Heptachlor	434555	361605	437994	373282	350939	391675	10.593
	5 Aldrin	498937	436260	400584	480349	469689	457164	8.526
	6 beta-BHC	303983	259811	217248	253911	244031	255797	12.310
	7 delta-BHC	493414	455655	433381	522720	514587	483952	7.929
	8 Heptachlor epoxide	499022	414971	365056	432323	419067	426088	11.290
	9 Endosulfan I	371686	332523	417522	354322	347080	364627	8.984
	10 gamma-Chlordane	497434	417600	375667	448482	438947	435626	10.212
	11 alpha-Chlordane	531311	439978	390704	464265	450882	455428	11.134
	12 4,4'-DDE	416132	372289	338888	405242	392992	385109	7.930
	13 Dieldrin	369722	330934	406862	325939	313048	349301	11.021
	14 Endrin	338282	282539	346262	283245	265117	303089	12.078
	15 4,4'-DDD	259031	242191	306400	241131	226252	255001	12.152
	16 Endosulfan II	389624	325991	286484	341482	331604	335037	11.040
	17 4,4'-DDT	273502	237739	305639	243192	225430	257100	12.598
	18 Endrin aldehyde	259840	204715	177073	201889	203709	209445	14.521
	19 Endosulfan sulfate	356759	292802	260564	311703	303705	305106	11.411
	20 Methoxychlor	157435	124909	137004	106617	96489	124491	19.452
	21 Endrin ketone	376509	315769	279507	332351	323902	325608	10.707
M	23 AR 1016-AVG	66426	65996	61335	58304	54542	61320	8.274
	24 AR 1016-PEAK1	7249	7247	7335	6954	6533	7064	4.673
	25 AR 1016-PEAK2	15650	15717	14649	13623	12413	14410	9.759
	26 AR 1016-PEAK3	31991	32456	29094	27669	25976	29437	9.436
	27 AR 1016-PEAK4	11536	10575	10258	10058	9620	10409	6.903
M	28 AR 1260-AVG	125729	132720	123177	114756	109587	121194	7.535

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 10-Jan-2005 16:14 hjl
Curve Type : Average

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	23681	23614	22320	19987	18916	21704	9.952
	30 AR 1260-PEAK2	26713	26341	24348	22223	20802	24085	10.650
	31 AR 1260-PEAK3	38804	41571	38666	36591	35178	38162	6.373
	32 AR 1260-PEAK4	36530	41194	37844	35956	34691	37243	6.665
M	33 AR 1221-AVG	+++++	+++++	11114	+++++	+++++	11114	0.000
	34 AR 1221-PEAK1	+++++	+++++	1006	+++++	+++++	1006	0.000
	35 AR 1221-PEAK2	+++++	+++++	2564	+++++	+++++	2564	0.000
	36 AR 1221-PEAK3	+++++	+++++	1827	+++++	+++++	1827	0.000
	37 AR 1221-PEAK4	+++++	+++++	5717	+++++	+++++	5717	0.000
M	38 AR 1232-AVG	+++++	+++++	29176	+++++	+++++	29176	0.000
	39 AR 1232-PEAK1	+++++	+++++	6630	+++++	+++++	6630	0.000
	40 AR 1232-PEAK2	+++++	+++++	6151	+++++	+++++	6151	0.000
	41 AR 1232-PEAK3	+++++	+++++	12328	+++++	+++++	12328	0.000
	42 AR 1232-PEAK4	+++++	+++++	4066	+++++	+++++	4066	0.000
M	43 AR 1242-AVG	+++++	+++++	46773	+++++	+++++	46773	0.000
	44 AR 1242-PEAK1	+++++	+++++	5461	+++++	+++++	5461	0.000
	45 AR 1242-PEAK2	+++++	+++++	9800	+++++	+++++	9800	0.000
	46 AR 1242-PEAK3	+++++	+++++	23197	+++++	+++++	23197	0.000
	47 AR 1242-PEAK4	+++++	+++++	8315	+++++	+++++	8315	0.000
M	48 AR 1248-AVG	+++++	+++++	48576	+++++	+++++	48576	0.000
	49 AR 1248-PEAK1	+++++	+++++	5947	+++++	+++++	5947	0.000
	50 AR 1248-PEAK2	+++++	+++++	15390	+++++	+++++	15390	0.000
	51 AR 1248-PEAK3	+++++	+++++	12254	+++++	+++++	12254	0.000
	52 AR 1248-PEAK4	+++++	+++++	14986	+++++	+++++	14986	0.000
M	53 AR 1254-AVG	+++++	+++++	57931	+++++	+++++	57931	0.000
	54 AR 1254-PEAK1	+++++	+++++	6624	+++++	+++++	6624	0.000
	55 AR 1254-PEAK2	+++++	+++++	6207	+++++	+++++	6207	0.000
	56 AR 1254-PEAK3	+++++	+++++	24908	+++++	+++++	24908	0.000
	57 AR 1254-PEAK4	+++++	+++++	20192	+++++	+++++	20192	0.000
M	58 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	33456	33456	0.000
	59 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	5786	5786	0.000
	60 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	10971	10971	0.000
	61 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	10043	10043	0.000

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 10-Jan-2005 16:14 hjl
Curve Type : Average

	Compound	5.000 Level 1	40.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	62 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	6656	6656	0.000
M	63 CHLORDANE-AVG	+++++	+++++	+++++	+++++	1144273	1144273	0.000
	64 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	158162	158162	0.000
	65 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	179861	179861	0.000
	66 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	382062	382062	0.000
	67 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	424188	424188	0.000
	68 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	69 Diallate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	70 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	425166	359271	382857	332352	307911	361512	12.552
$	22 Decachlorobiphenyl	403425	331938	357885	273732	243802	322156	19.913

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-DEC-2004 11:16
End Cal Date : 30-DEC-2004 23:56
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv11.i/2041229.b/pest608.m
Cal Date : 10-Jan-2005 16:14 hjl
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 10.4731063                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{70037 + 2744}{70037 + 2744 + 26516077} \times 100 = 0.3\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{2032064 + 380913}{2032064 + 380913 + 28833373} \times 100 = 7.7\ \%$$

Endrin Breakdown: Criteria

< 15%

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11002.d
Lab Smp Id: DEG
Inj Date : 29-DEC-2004 10:44
Operator : dlb Inst ID: gcsv11.i
Smp Info : DEG-1.0-GCSV~40XX~-63*20*7
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 14:18 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: deg.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

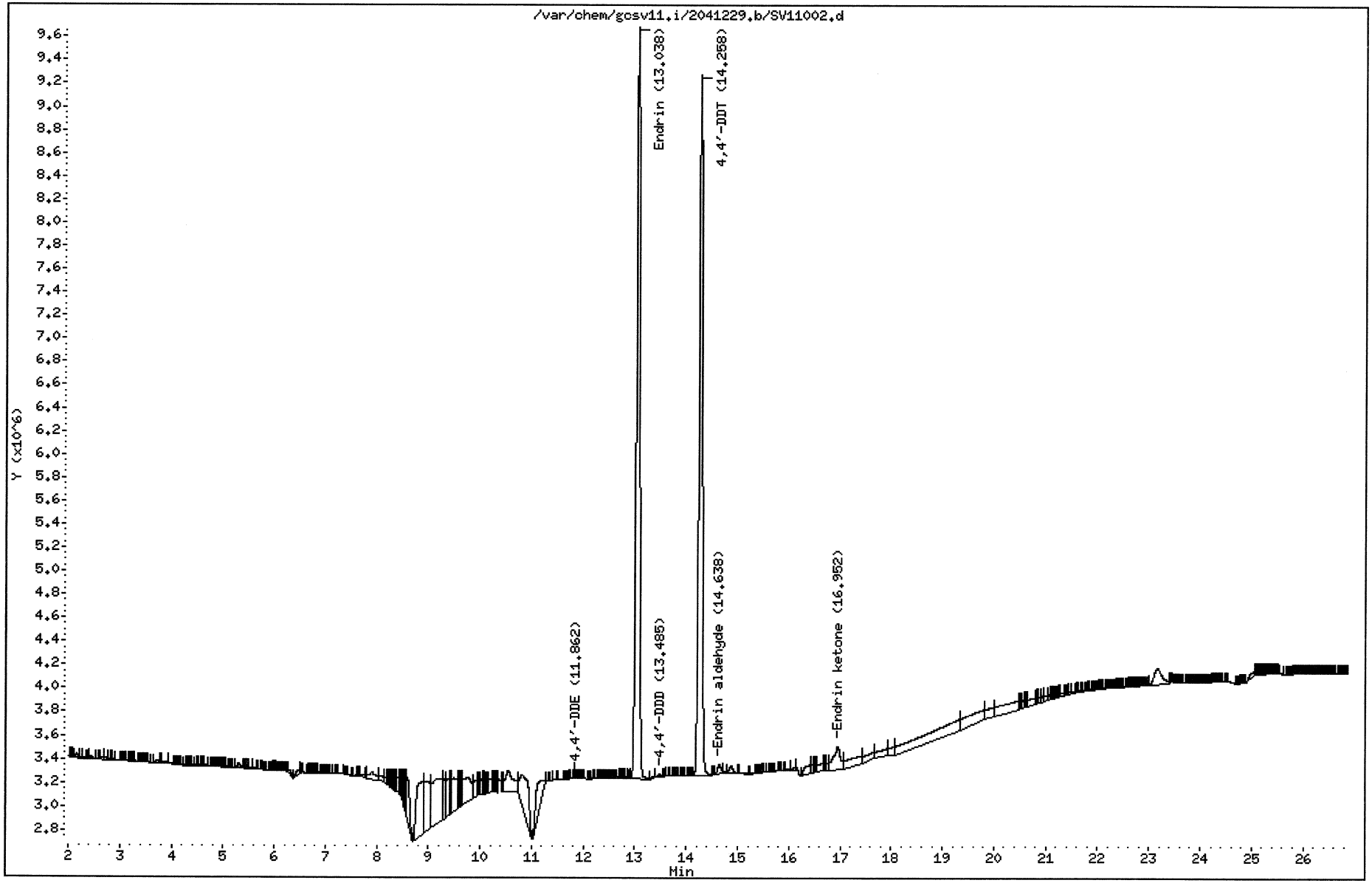
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
15 4,4'-DDD	13.485	13.506	-0.021	70037	0.27465	0.0027
17 4,4'-DDT	14.258	14.275	-0.017	26516077	103.135	1.0313
12 4,4'-DDE	11.862	11.869	-0.007	2744	0.00713	0.0000
14 Endrin	13.038	13.055	-0.017	28833373	95.1317	0.9513
21 Endrin ketone	16.952	16.972	-0.020	2032064	6.24083	0.0624
18 Endrin aldehyde	14.638	14.650	-0.012	380913	1.81867	0.0181

Data File: /var/chem/gcsv11.i/2041229.b/SV11002.d
Date : 29-DEC-2004 10:44
Client ID:
Sample Info: DEG-1.0-GCSV^40XX^-63*20*7
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: dlb
Column diameter: 0.53

000564



Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{973842 + 101020}{973842 + 101020 + 26598675} \times 100 = 3.9\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{1348905 + 361917}{1348905 + 361917 + 31182846} \times 100 = 5.2\ \%$$

Endrin Breakdown: Criteria

< 15%

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11014.d
Lab Smp Id: DEG
Inj Date : 30-DEC-2004 16:32
Operator : dlb Inst ID: gcsv11.i
Smp Info : DEG-1.0-GCSV~40XX~-63*20*7
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 14:55 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: deg.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

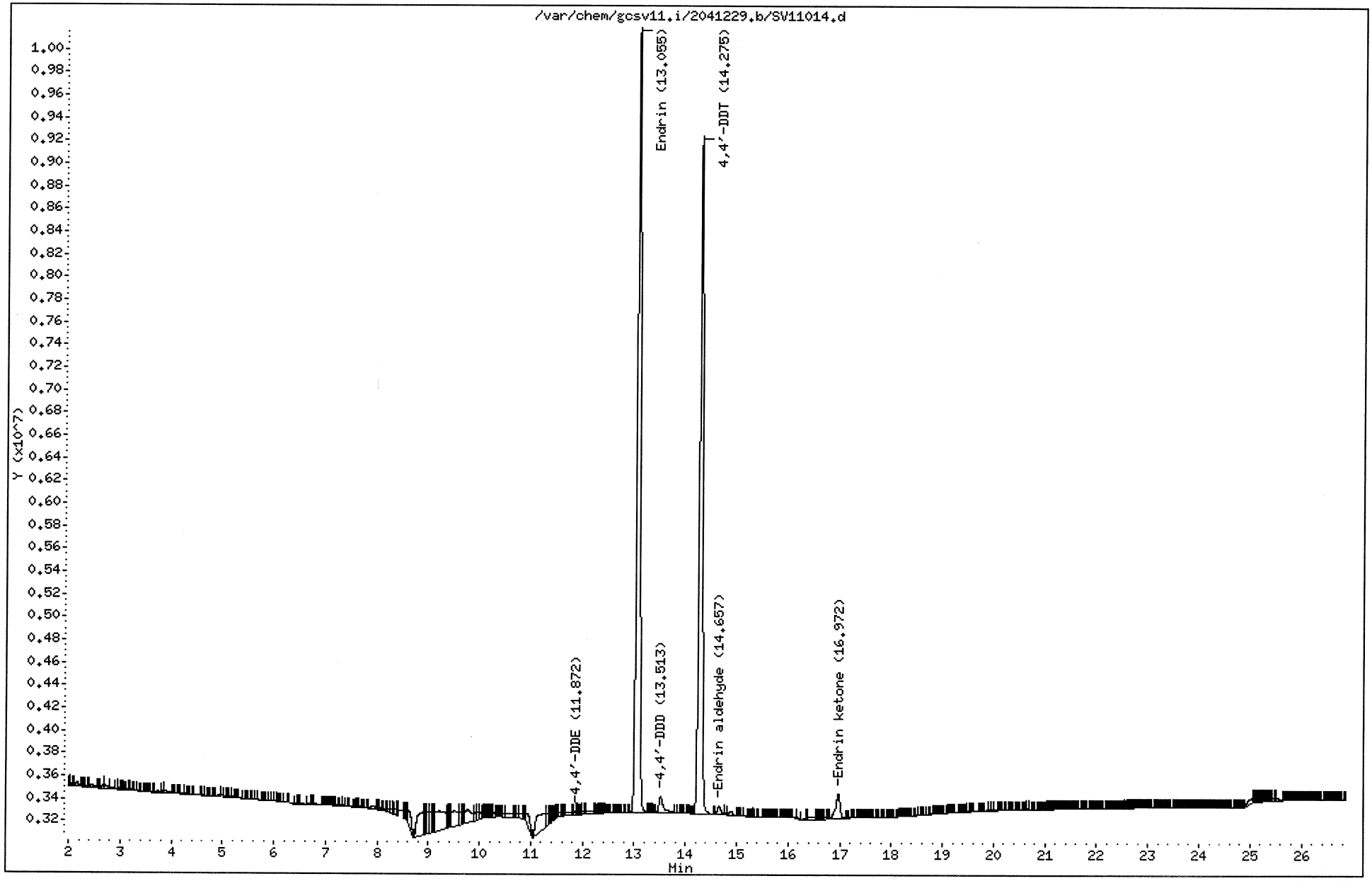
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
15 4,4'-DDD	13.513	13.505	0.008	973842	3.81898	0.0381
17 4,4'-DDT	14.275	14.274	0.001	26598675	103.456	1.0345
12 4,4'-DDE	11.872	11.869	0.003	101020	0.26232	0.0026
14 Endrin	13.055	13.053	0.002	31182846	102.884	1.0288
21 Endrin ketone	16.972	16.972	0.000	1348905	4.14273	0.0414
18 Endrin aldehyde	14.657	14.650	0.007	361917	1.72798	0.0172

Data File: /var/chem/gcsv11.i/2041229.b/SV11014.d
Date : 30-DEC-2004 16:32
Client ID:
Sample Info: DEG-1.0-GCSV^40XX^-63*20*7
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: dlb
Column diameter: 0.53

000567



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11015.d
Lab Smp Id: 1201
Inj Date : 30-DEC-2004 17:04
Operator : tls
Inst ID: gcsv11.i
Smp Info : 1201-1.0-GCSV~42XX~-63*21*7
IND A I
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:13 hjl
Quant Type: ESTD
Cal Date : 30-DEC-2004 20:14
Cal File: SV11021.d
Als bottle: 15
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	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	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.913	5.913	0.000	2582412	5.00000	4.8476
3 gamma-BHC (Lindane)	7.000	7.000	0.000	2432962	5.00000	5.1130
4 Heptachlor	7.725	7.725	0.000	2172774	5.00000	5.5473
9 Endosulfan I	11.200	11.200	0.000	1858430	5.00000	5.0968(M)
13 Dieldrin	12.118	12.117	0.001	3697220	10.0000	10.5846
14 Endrin	13.055	13.053	0.002	3382821	10.0000	11.1611
15 4,4'-DDD	13.507	13.505	0.002	2590307	10.0000	10.1580
17 4,4'-DDT	14.275	14.274	0.001	2735020	10.0000	10.6379
20 Methoxychlor	16.725	16.723	0.002	7871729	50.0000	63.2313
$ 1 Tetrachloro-m-xylene	4.285	4.283	0.002	2125830	5.00000	5.8803
$ 22 Decachlorobiphenyl	20.220	20.216	0.004	4034252	10.0000	12.5226(M)

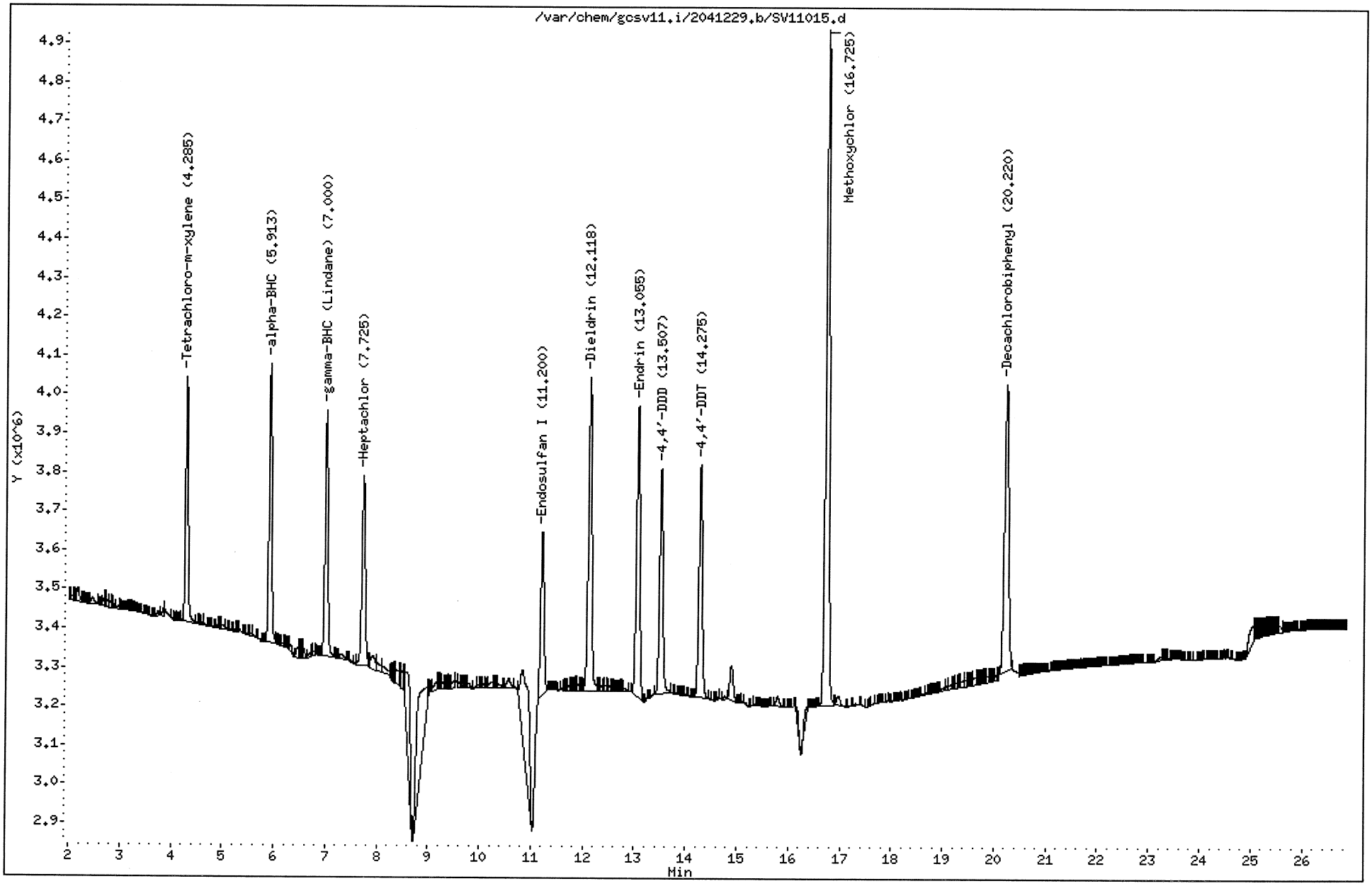
QC Flag Legend

M - Compound response manually integrated.

000570

Data File: /var/chem/gcsv11.i/2041229.b/SV11015.d
Date : 30-DEC-2004 17:04
Client ID:
Sample Info: 1201-1.0-GCSV~42XX~-63*21*7 IND A I
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11016.d
Lab Smp Id: 1202
Inj Date : 30-DEC-2004 17:36
Operator : tls Inst ID: gcsv11.i
Smp Info : 1202-1.0-GCSV~42XX~-63*21*8 IND A II
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:13 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 16 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

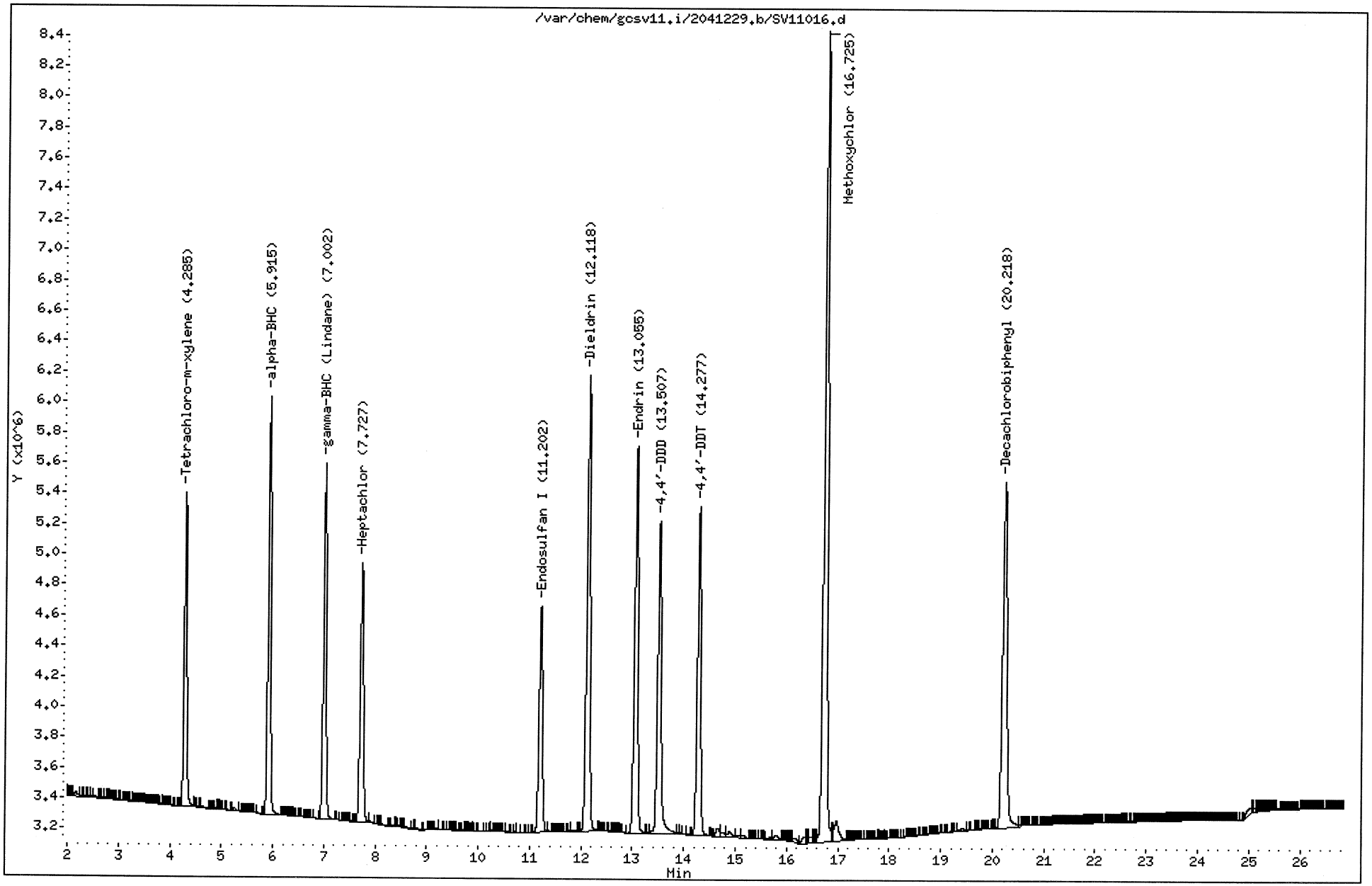
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.915	5.913	0.002	9767357	20.0000	18.3351
3 gamma-BHC (Lindane)	7.002	7.000	0.002	8807821	20.0000	18.5103
4 Heptachlor	7.727	7.725	0.002	7232097	20.0000	18.4645
9 Endosulfan I	11.202	11.200	0.002	6650469	20.0000	18.2391
13 Dieldrin	12.118	12.117	0.001	13237350	40.0000	37.8966
14 Endrin	13.055	13.053	0.002	11301549	40.0000	37.2879
15 4,4'-DDD	13.507	13.505	0.002	9687641	40.0000	37.9906
17 4,4'-DDT	14.277	14.274	0.003	9509568	40.0000	36.9877
20 Methoxychlor	16.725	16.723	0.002	24981871	200.000	200.6722
$ 1 Tetrachloro-m-xylene	4.285	4.283	0.002	7185427	20.0000	19.8760
$ 22 Decachlorobiphenyl	20.218	20.216	0.002	13277507	40.0000	41.2144

Data File: /var/chem/gcsv11.i/2041229.b/SV11016.d
Date : 30-DEC-2004 17:36
Client ID:
Sample Info: 1202-1.0-GCSV^42XX^-63*21*8 IND A II
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000572



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11017.d
Lab Smp Id: 1203
Inj Date : 30-DEC-2004 18:07
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*22*1 IND A III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:13 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 17 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

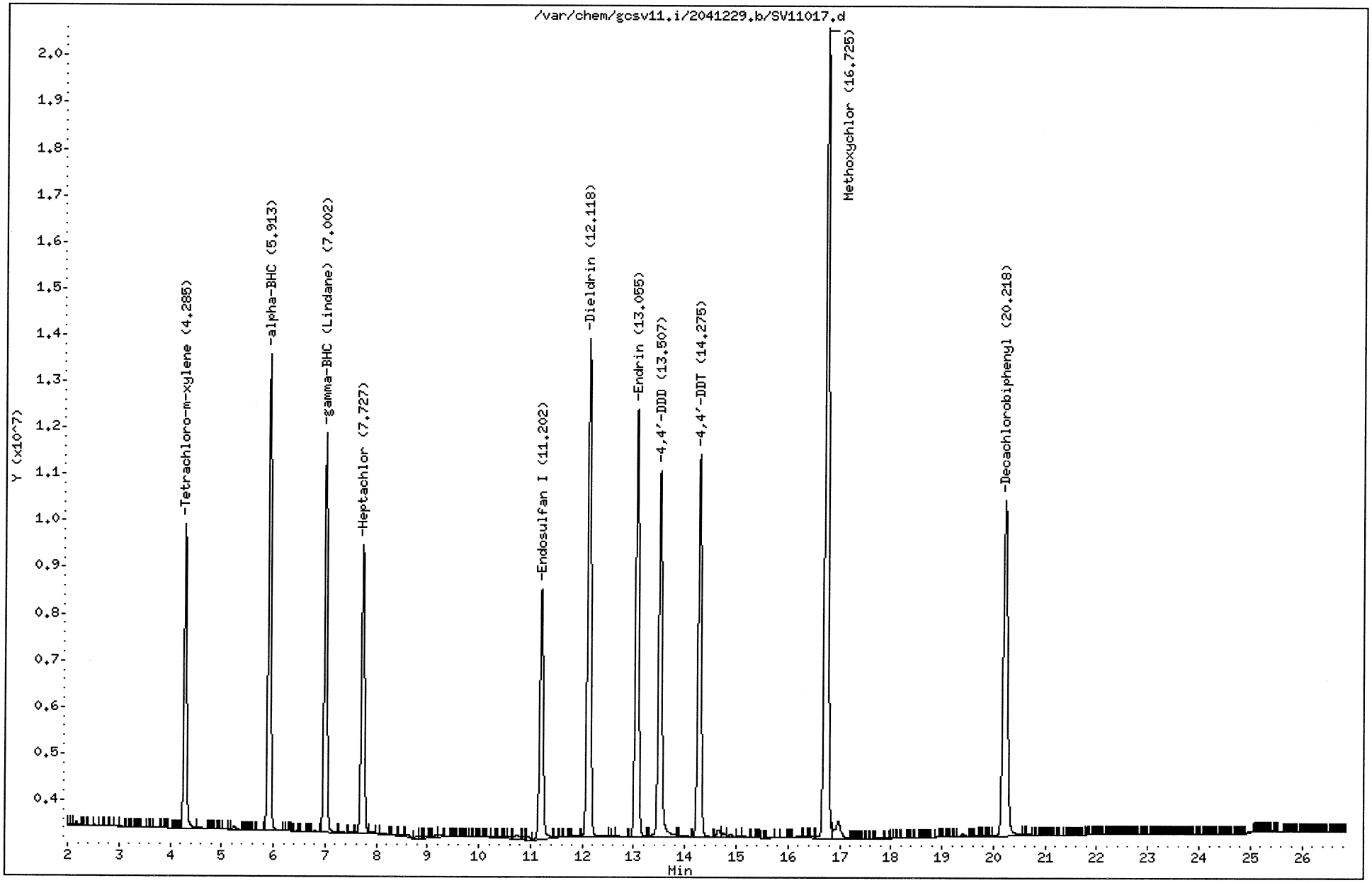
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.913	5.913	0.000	37008081	60.0000	69.4711
3 gamma-BHC (Lindane)	7.002	7.000	0.002	32741999	60.0000	68.8099
4 Heptachlor	7.727	7.726	0.001	26279639	60.0000	67.0955
9 Endosulfan I	11.202	11.201	0.001	25051335	60.0000	68.7040
13 Dieldrin	12.118	12.118	0.000	48823403	120.000	139.7746
14 Endrin	13.055	13.055	0.000	41551411	120.000	137.0931
15 4,4'-DDD	13.507	13.506	0.001	36768030	120.000	144.1878
17 4,4'-DDT	14.275	14.275	0.000	36676636	120.000	142.6549
20 Methoxychlor	16.725	16.724	0.001	82202495	600.000	660.3090
$ 1 Tetrachloro-m-xylene	4.285	4.284	0.001	22971398	60.0000	63.5426
$ 22 Decachlorobiphenyl	20.218	20.217	0.001	42946205	120.000	133.3085

000574

Data File: /var/chem/gcsv11.i/2041229.b/SV11017.d
Date : 30-DEC-2004 18:07
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63*22*1 IND A III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11018.d
Lab Smp Id: 1204
Inj Date : 30-DEC-2004 18:39
Operator : tls
Inst ID: gcsv11.i
Smp Info : 1204-1.0-GCSV~42XX~-63*22*2
IND A IV
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:13 hjl
Quant Type: ESTD
Cal Date : 30-DEC-2004 21:49
Cal File: SV11024.d
Als bottle: 18
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

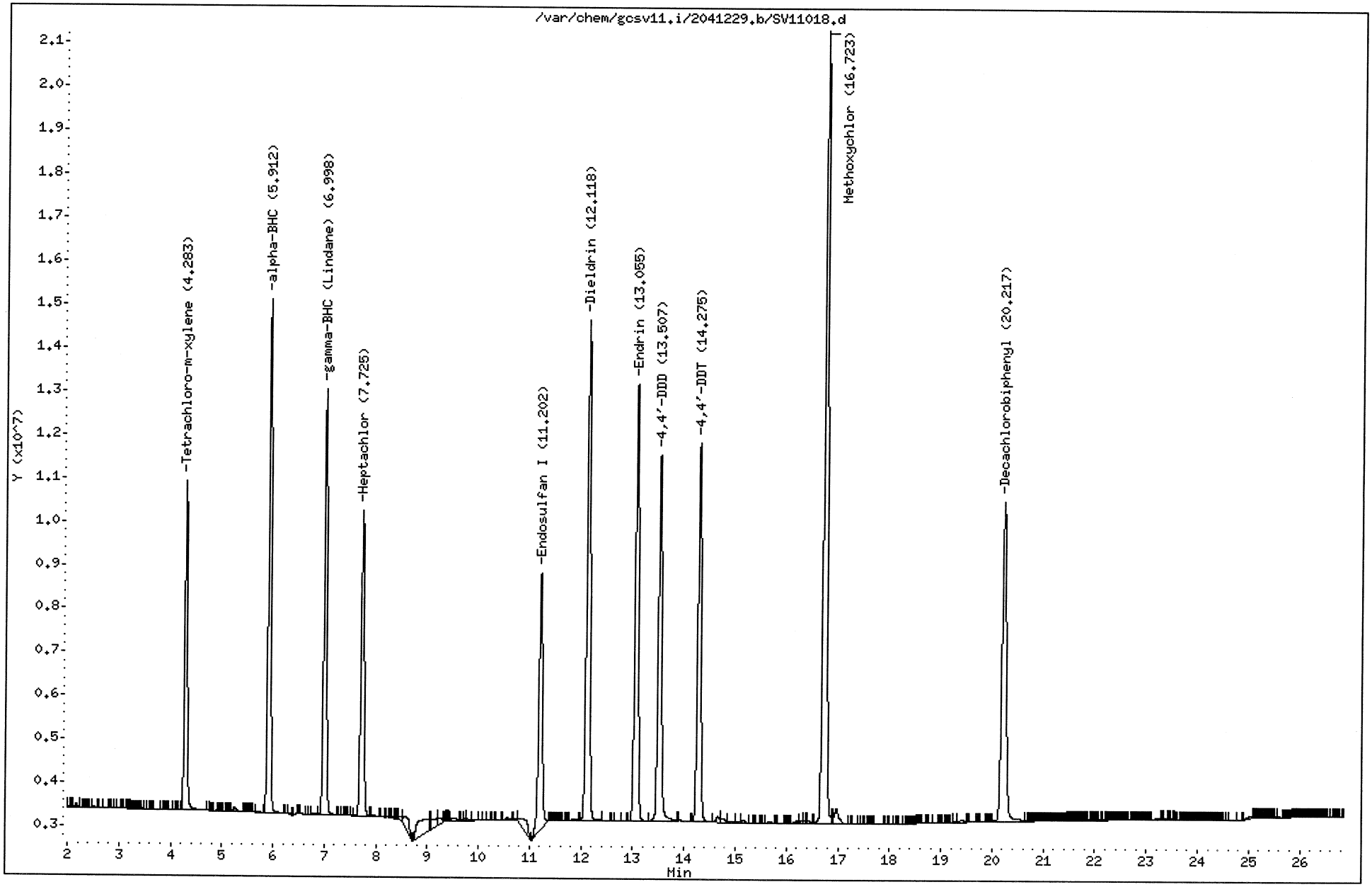
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.912	5.913	-0.001	42857245	80.0000	80.4511
3 gamma-BHC (Lindane)	6.998	7.000	-0.002	37320203	80.0000	78.4313
4 Heptachlor	7.725	7.726	-0.001	29862580	80.0000	76.2432
9 Endosulfan I	11.202	11.201	0.001	28345720	80.0000	77.7390
13 Dieldrin	12.118	12.118	0.000	52150203	160.000	149.2987
14 Endrin	13.055	13.055	0.000	45319142	160.000	149.5242
15 4,4'-DDD	13.507	13.506	0.001	38580909	160.000	151.2971
17 4,4'-DDT	14.275	14.275	0.000	38910744	160.000	151.3445
20 Methoxychlor	16.723	16.724	-0.001	85293855	800.000	685.1410
$ 1 Tetrachloro-m-xylene	4.283	4.284	-0.001	26588196	80.0000	73.5473
$ 22 Decachlorobiphenyl	20.217	20.217	0.000	43797121	160.000	135.9498

000576

Data File: /var/chem/gcsv11.i/2041229.b/SV11018.d
Date : 30-DEC-2004 18:39
Client ID:
Sample Info: 1204-1.0-GCSV^42XX^-63*22*2 IND A IV
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11019.d
Lab Smp Id: 1205
Inj Date : 30-DEC-2004 19:11
Operator : tls Inst ID: gcsv11.i
Smp Info : 1205-1.0-GCSV~42XX~-63*22*3 IND A V
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:13 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 19 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

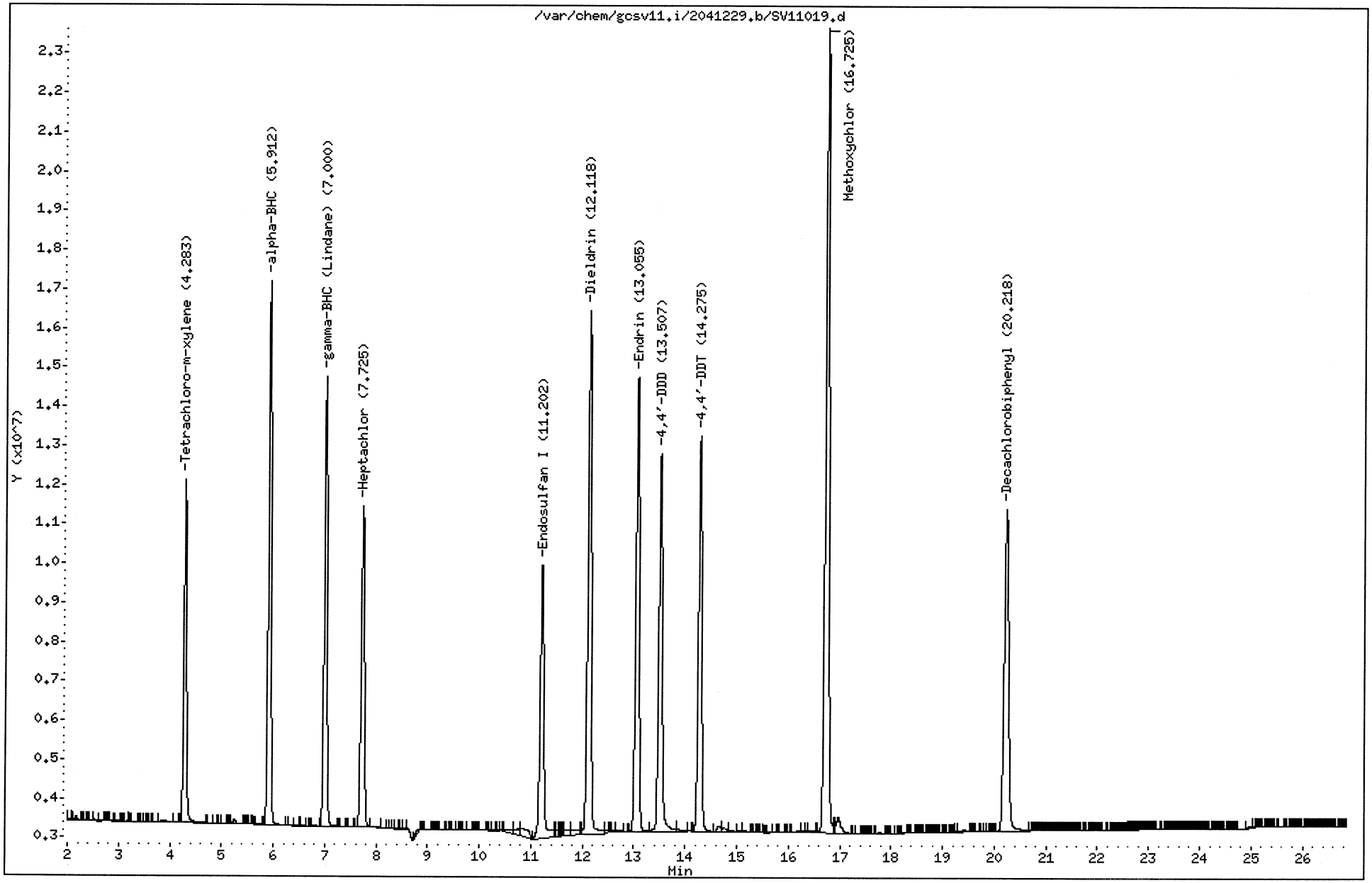
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.912	5.913	-0.001	50618856	100.000	95.0212
3 gamma-BHC (Lindane)	7.000	7.000	0.000	43997645	100.000	92.4645
4 Heptachlor	7.725	7.726	-0.001	35093869	100.000	89.5994
9 Endosulfan I	11.202	11.201	0.001	34708017	100.000	95.1878
13 Dieldrin	12.118	12.118	0.000	62609694	200.000	179.2428
14 Endrin	13.055	13.055	0.000	53023434	200.000	174.9435
15 4,4'-DDD	13.507	13.506	0.001	45250343	200.000	177.4517
17 4,4'-DDT	14.275	14.275	0.000	45085997	200.000	175.3633
20 Methoxychlor	16.725	16.724	0.001	96489260	1000.00	775.0705
$ 1 Tetrachloro-m-xylene	4.283	4.284	-0.001	30791111	100.000	85.1732
$ 22 Decachlorobiphenyl	20.218	20.217	0.001	48760383	200.000	151.3562

000578

Data File: /var/chem/gcsv11.i/2041229.b/SV11019.d
Date : 30-DEC-2004 19:11
Client ID:
Sample Info: 1205-1.0-GCSV~42XX~-63x22x3 IND A V
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: ICVA.spk
Sublist File: ICVA.sub
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Misc Info:

Client SDG: 63*25*1 IND A III
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
3 gamma-BHC (Lindane	60.0000	61.2013	102.00	85-115
2 alpha-BHC	60.0000	59.1236	98.54	85-115
4 Heptachlor	60.0000	62.5986	104.33	85-115
9 Endosulfan I	60.0000	59.6796	99.47	85-115
13 Dieldrin	120.0000	121.9542	101.63	85-115
14 Endrin	120.0000	122.8773	102.40	85-115
15 4,4'-DDD	120.0000	126.2934	105.24	85-115
17 4,4'-DDT	120.0000	125.4313	104.53	85-115
20 Methoxychlor	600.0000	575.3662	95.89	85-115

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11043.d
Lab Smp Id: ICV
Inj Date : 31-DEC-2004 08:11
Operator : tls Inst ID: gcsv11.i
Smp Info : ICV-1.0-GCSV~40XX~-63*25*1 IND A III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 43 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICVA.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

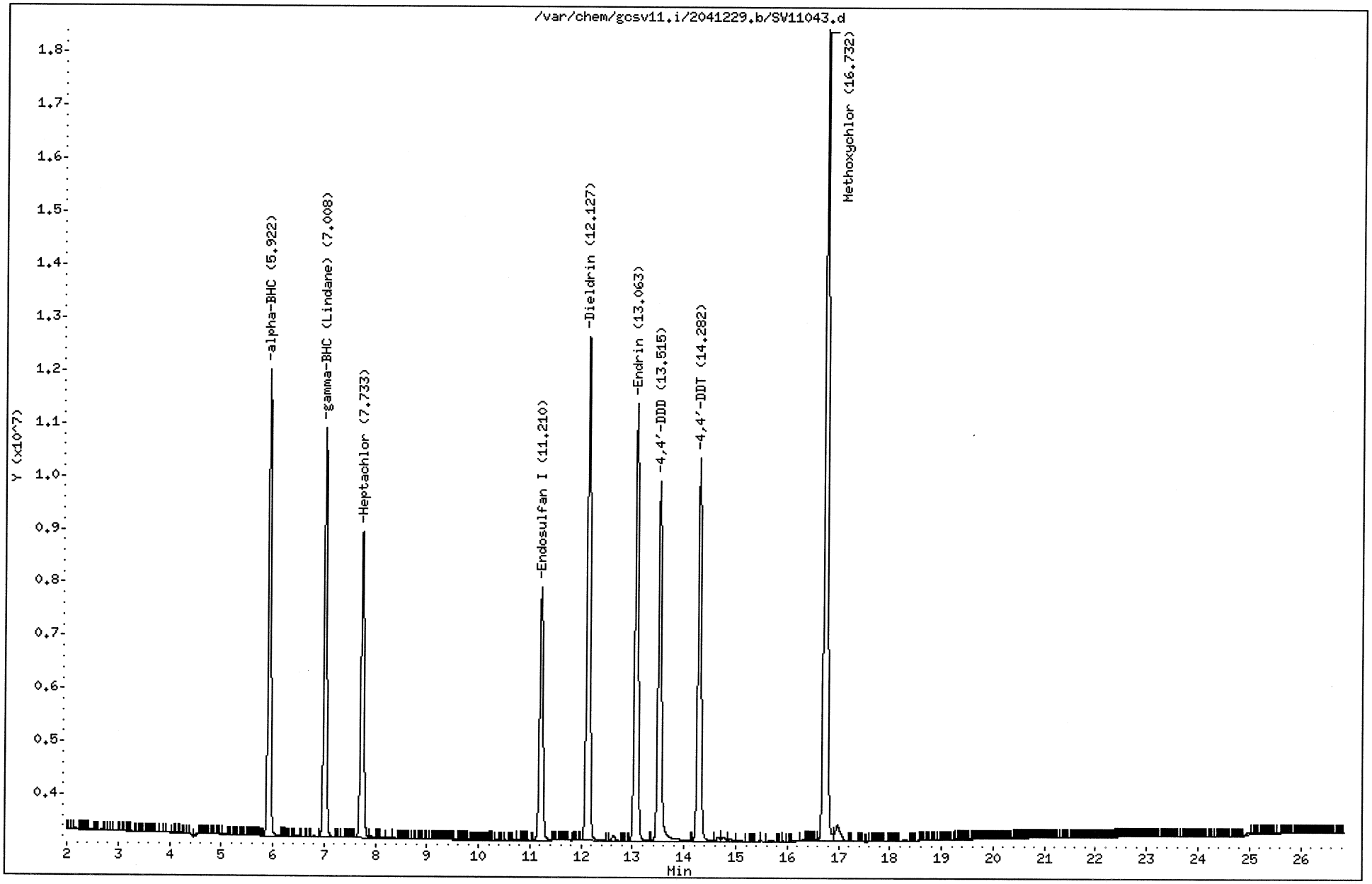
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
3 gamma-BHC (Lindane)	7.008	7.000	0.008	29121589	61.2013	61.2013
2 alpha-BHC	5.922	5.913	0.009	31495842	59.1237	59.1236
4 Heptachlor	7.733	7.726	0.007	24518312	62.5986	62.5986
9 Endosulfan I	11.210	11.201	0.009	21760782	59.6796	59.6796
13 Dieldrin	12.127	12.118	0.009	42598721	121.954	121.9542
14 Endrin	13.063	13.055	0.008	37242760	122.877	122.8773
15 4,4'-DDD	13.515	13.506	0.009	32204929	126.293	126.2934
17 4,4'-DDT	14.282	14.275	0.007	32248451	125.431	125.4313
20 Methoxychlor	16.732	16.724	0.008	71627884	575.366	575.3662

000581

Data File: /var/chem/gcsv11.i/2041229.b/SV11043.d
Date : 31-DEC-2004 08:11
Client ID:
Sample Info: ICV-1.0-GCSV~40XX~-63*25*1 IND A III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11021.d
Lab Smp Id: 1201
Inj Date : 30-DEC-2004 20:14
Operator : tls Inst ID: gcsv11.i
Smp Info : 1201-1.0-GCSV~42XX~-63*22*4 IND B I
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:14 Cal File: SV11021.d
Als bottle: 21 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

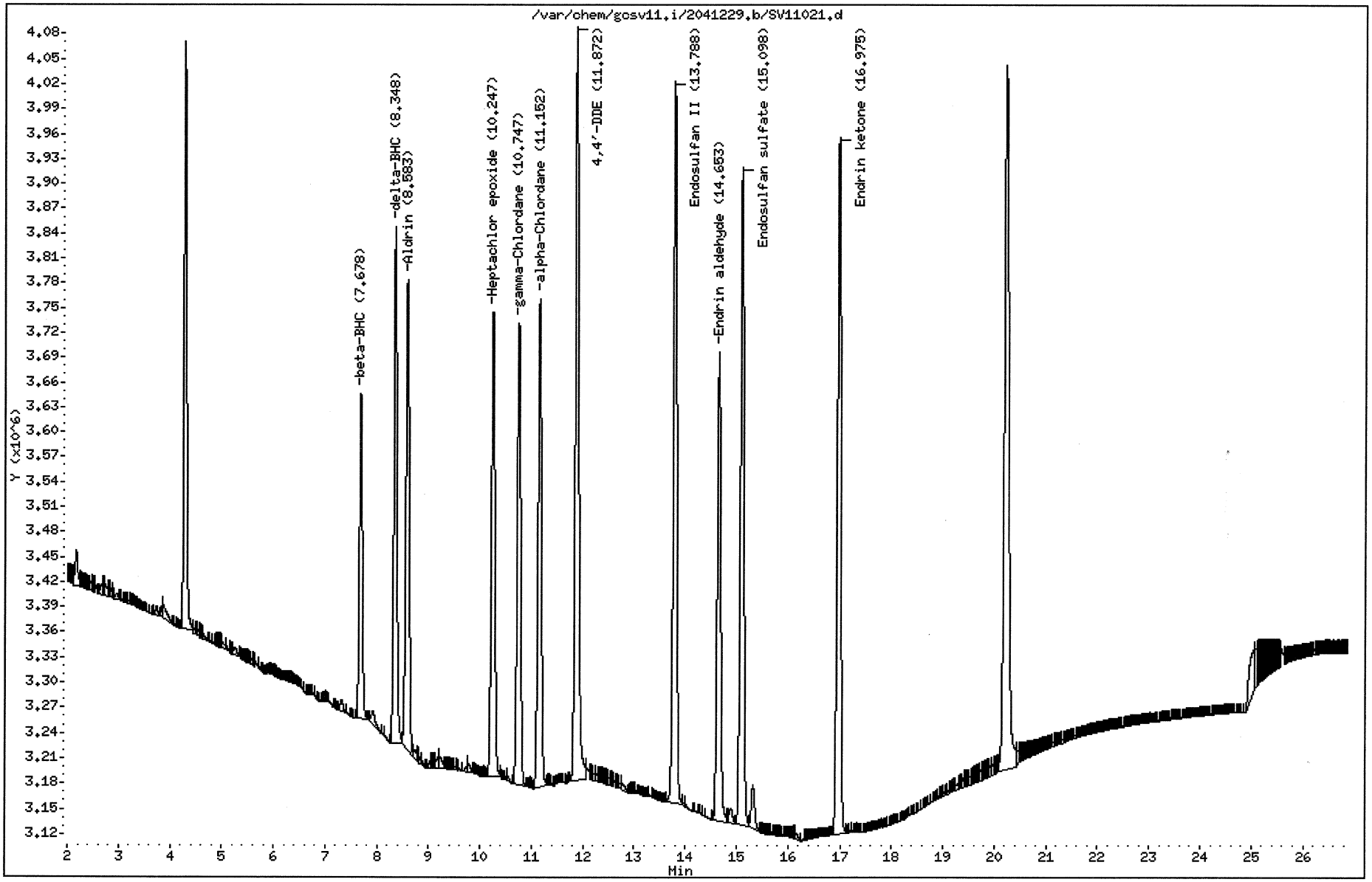
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.583	8.583	0.000	2494683	5.00000	5.4568
6 beta-BHC	7.678	7.676	0.002	1519916	5.00000	5.9418
7 delta-BHC	8.348	8.347	0.001	2467071	5.00000	5.0977
8 Heptachlor epoxide	10.247	10.246	0.001	2495110	5.00000	5.8558
10 gamma-Chlordane	10.747	10.745	0.002	2487169	5.00000	5.7094
11 alpha-Chlordane	11.152	11.150	0.002	2656554	5.00000	5.8330
12 4,4'-DDE	11.872	11.869	0.003	4161320	10.0000	10.8055
16 Endosulfan II	13.788	13.787	0.001	3896239	10.0000	11.6292
18 Endrin aldehyde	14.653	14.650	0.003	2598403	10.0000	12.4061
19 Endosulfan sulfate	15.098	15.097	0.001	3567589	10.0000	11.6929
21 Endrin ketone	16.975	16.972	0.003	3765093	10.0000	11.5632

Data File: /var/chem/gcsv11.i/2041229.b/SV11021.d
Date : 30-DEC-2004 20:14
Client ID:
Sample Info: 1201-1.0-GCSV"42XX"-63*22*4 IND B I
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000583



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11022.d
Lab Smp Id: 1202
Inj Date : 30-DEC-2004 20:46
Operator : tls Inst ID: gcsv11.i
Smp Info : 1202-1.0-GCSV~42XX~-63*22*5 IND B II
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:15 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 22 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

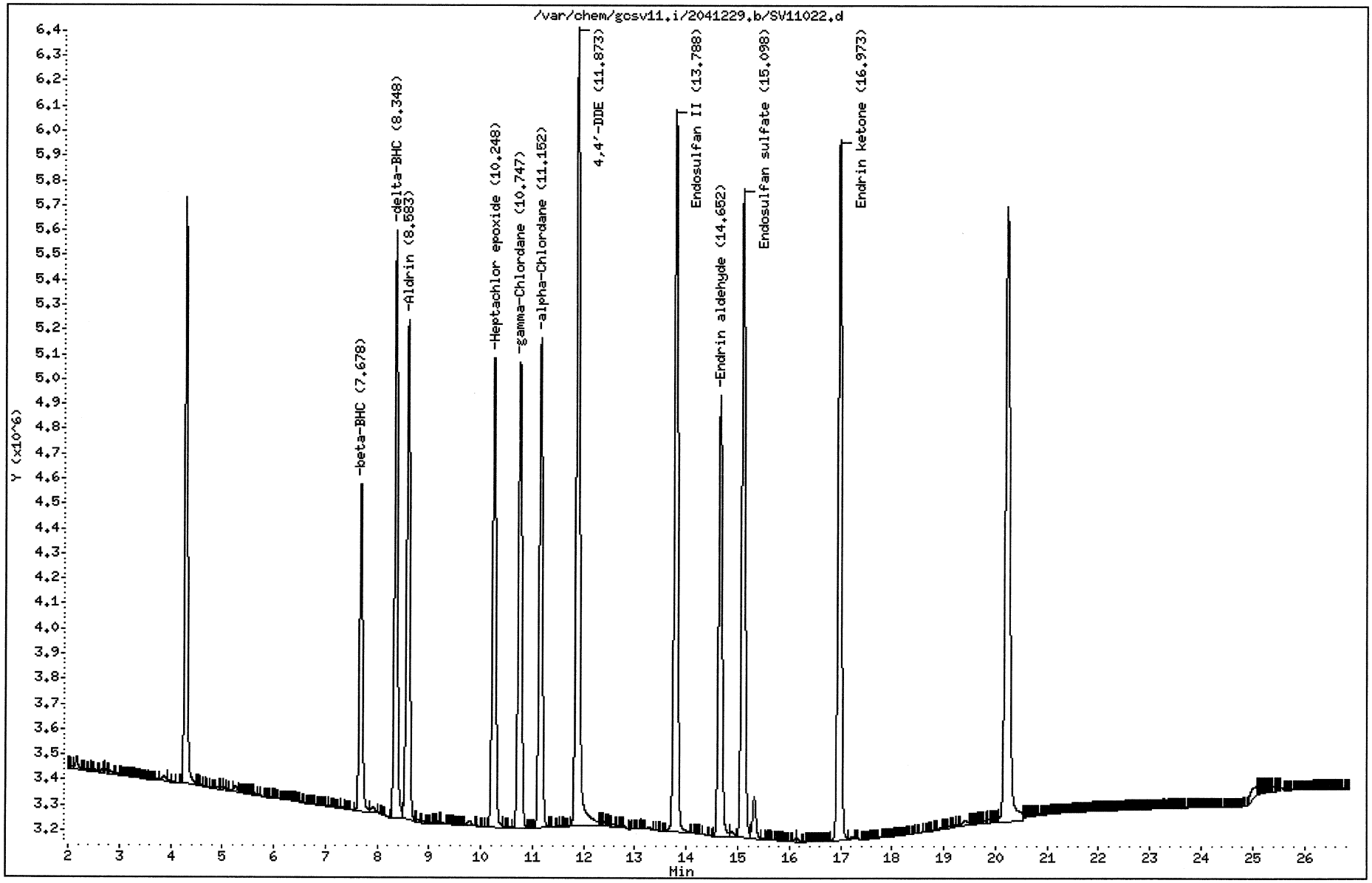
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.583	8.583	0.000	8725204	20.0000	19.0855
6 beta-BHC	7.678	7.676	0.002	5196220	20.0000	20.3138
7 delta-BHC	8.348	8.347	0.001	9113106	20.0000	18.8306
8 Heptachlor epoxide	10.248	10.246	0.002	8299413	20.0000	19.4781
10 gamma-Chlordane	10.747	10.746	0.001	8352000	20.0000	19.1724
11 alpha-Chlordane	11.152	11.150	0.002	8799559	20.0000	19.3215
12 4,4'-DDE	11.873	11.869	0.004	14891553	40.0000	38.6684
16 Endosulfan II	13.788	13.787	0.001	13039627	40.0000	38.9199
18 Endrin aldehyde	14.652	14.650	0.002	8188615	40.0000	39.0966
19 Endosulfan sulfate	15.098	15.096	0.002	11712085	40.0000	38.3868
21 Endrin ketone	16.973	16.972	0.001	12630767	40.0000	38.7913

Data File: /var/chem/gcsv11.i/2041229.b/SV11022.d
Date : 30-DEC-2004 20:46
Client ID:
Sample Info: 1202-1.0-GCSV^42XX^-63*22*5 IND B II
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000585



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11023.d
Lab Smp Id: 1203
Inj Date : 30-DEC-2004 21:18
Operator : tls Inst ID: gcsv11.i
Smp Info : 1203-1.0-GCSV~42XX~-63*22*6 IND B III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 21:18 Cal File: SV11023.d
Als bottle: 23 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

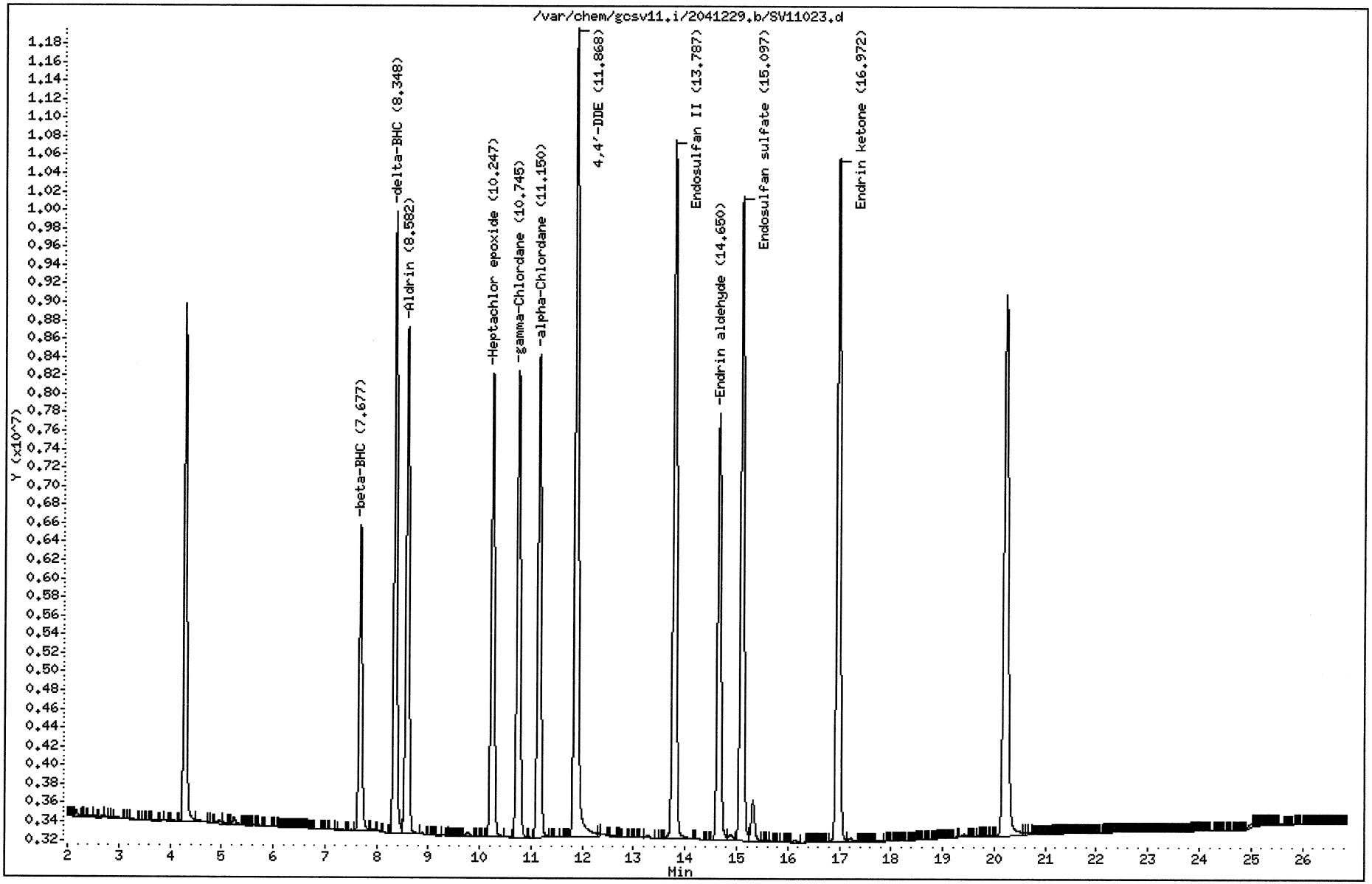
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.582	8.583	-0.001	24035053	60.0000	52.5742
6 beta-BHC	7.677	7.676	0.001	13034908	60.0000	50.9580
7 delta-BHC	8.348	8.347	0.001	26002860	60.0000	53.7302
8 Heptachlor epoxide	10.247	10.246	0.001	21903382	60.0000	51.4057
10 gamma-Chlordane	10.745	10.745	0.000	22539995	60.0000	51.7416
11 alpha-Chlordane	11.150	11.150	0.000	23442254	60.0000	51.4730
12 4,4'-DDE	11.868	11.869	-0.001	40666598	120.000	105.5977
16 Endosulfan II	13.787	13.787	0.000	34378138	120.000	102.6099
18 Endrin aldehyde	14.650	14.650	0.000	21248788	120.000	101.4525
19 Endosulfan sulfate	15.097	15.097	0.000	31267670	120.000	102.4811
21 Endrin ketone	16.972	16.972	0.000	33540890	120.000	103.0100

000587

Data File: /var/chem/gcsv11.i/2041229.b/SV11023.d
Date : 30-DEC-2004 21:18
Client ID:
Sample Info: 1203-1.0-GCSV~42XX~-63*22*6 IND B III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11024.d
Lab Smp Id: 1204
Inj Date : 30-DEC-2004 21:49
Operator : tls Inst ID: gcsv11.i
Smp Info : 1204-1.0-GCSV~42XX~-63*22*7 IND B IV
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 21:49 Cal File: SV11024.d
Als bottle: 24 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

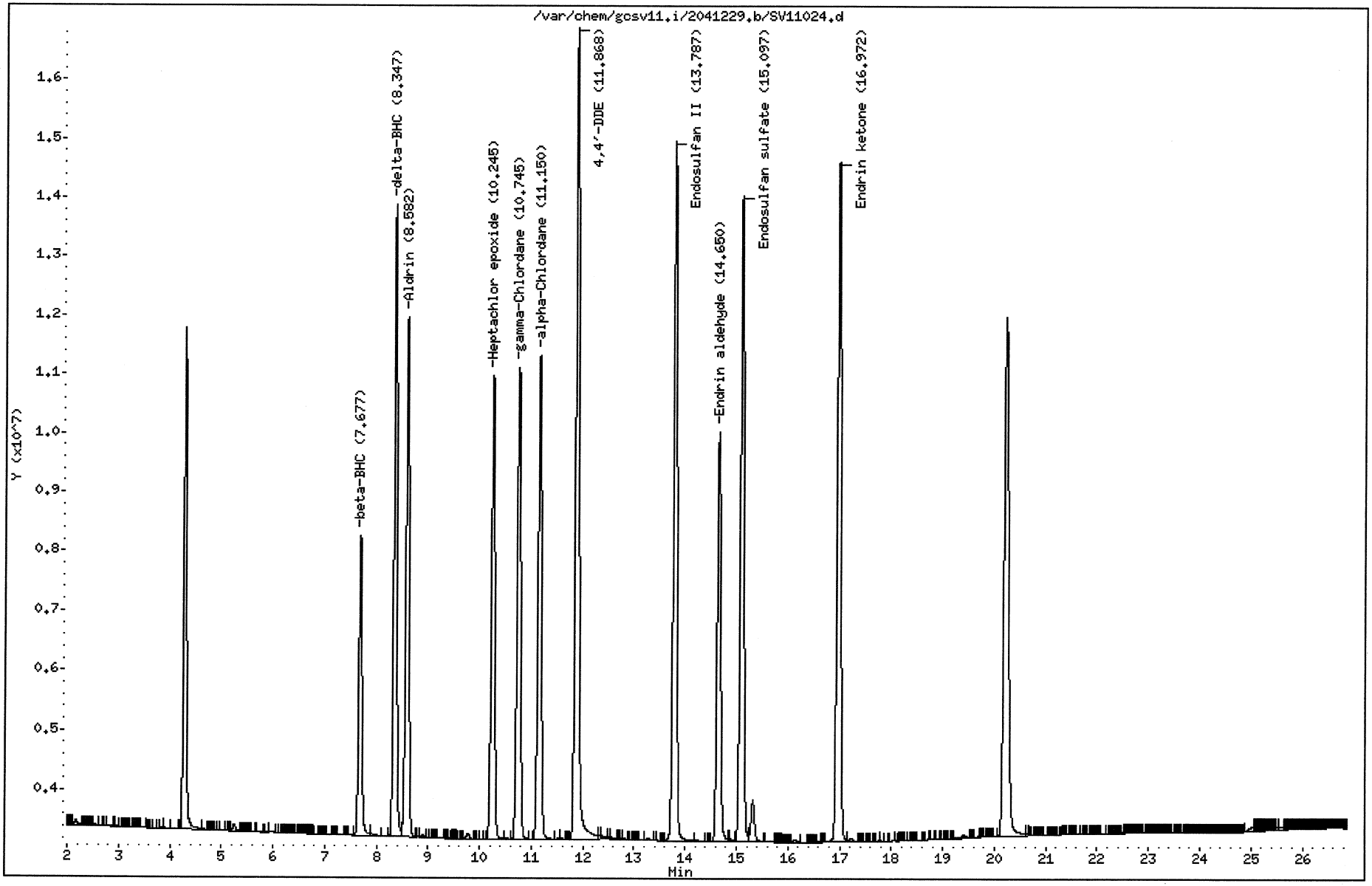
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.582	8.583	-0.001	38427920	80.0000	84.0572
6 beta-BHC	7.677	7.676	0.001	20312897	80.0000	79.4102
7 delta-BHC	8.347	8.347	0.000	41817612	80.0000	86.4086
8 Heptachlor epoxide	10.245	10.246	-0.001	34585867	80.0000	81.1707
10 gamma-Chlordane	10.745	10.745	0.000	35878532	80.0000	82.3608
11 alpha-Chlordane	11.150	11.150	0.000	37141172	80.0000	81.5522
12 4,4'-DDE	11.868	11.869	-0.001	64838788	160.000	168.3649
16 Endosulfan II	13.787	13.787	0.000	54637115	160.000	163.0778
18 Endrin aldehyde	14.650	14.650	0.000	32302258	160.000	154.2275
19 Endosulfan sulfate	15.097	15.097	0.000	49872432	160.000	163.4591
21 Endrin ketone	16.972	16.972	0.000	53176139	160.000	163.3134

Data File: /var/chem/gcsv11.i/2041229.b/SV11024.d
Date : 30-DEC-2004 21:49
Client ID:
Sample Info: 1204-1.0-GCSV~42XX~-63*22*7 IND B IV
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000589



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11025.d
Lab Smp Id: 1205
Inj Date : 30-DEC-2004 22:21
Operator : tls Inst ID: gcsv11.i
Smp Info : 1205-1.0-GCSV~42XX~-63*22*8 IND B V
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 25 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	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	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.582	8.583	-0.001	46968905	100.000	102.7397(A)
6 beta-BHC	7.675	7.676	-0.001	24403109	100.000	95.4002
7 delta-BHC	8.345	8.347	-0.002	51458698	100.000	106.3302(A)
8 Heptachlor epoxide	10.245	10.246	-0.001	41906745	100.000	98.3523
10 gamma-Chlordane	10.745	10.746	-0.001	43894742	100.000	100.7624(A)
11 alpha-Chlordane	11.150	11.150	0.000	45088229	100.000	99.0018
12 4,4'-DDE	11.868	11.869	-0.001	78598376	200.000	204.0940(A)
16 Endosulfan II	13.787	13.787	0.000	66320834	200.000	197.9507
18 Endrin aldehyde	14.650	14.650	0.000	40741873	200.000	194.5225
19 Endosulfan sulfate	15.097	15.096	0.001	60740958	200.000	199.0811
21 Endrin ketone	16.972	16.972	0.000	64780447	200.000	198.9523

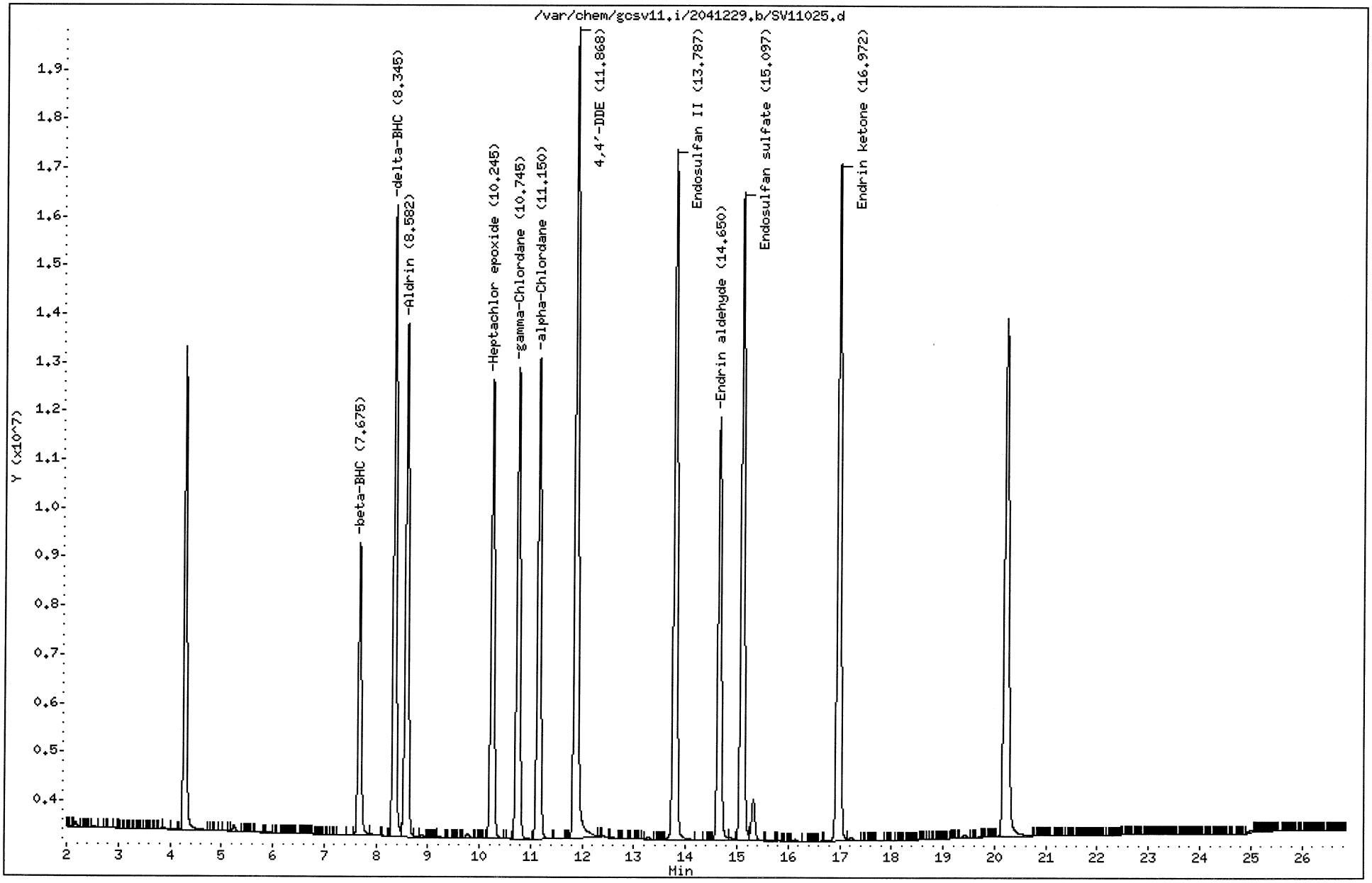
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

000592

Data File: /var/chem/gcsv11.i/2041229.b/SV11025.d
Date : 30-DEC-2004 22:21
Client ID:
Sample Info: 1205-1.0-GCSV^42XX^-63*22*8 IND B V
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: ICVBafcee.spk
Sublist File: ICVB.sub
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Misc Info:

Client SDG: 63*12*8 IND B III
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
5 Aldrin	60.0000	64.2878	107.15	85-115
6 beta-BHC	60.0000	61.5889	102.65	85-115
7 delta-BHC	60.0000	63.8712	106.45	85-115
8 Heptachlor epoxide	60.0000	62.0178	103.36	85-115
10 gamma-Chlordane	60.0000	59.5791	99.30	85-115
11 alpha-Chlordane	60.0000	58.6654	97.78	85-115
12 4,4'-DDE	120.0000	132.7532	110.63	85-115
16 Endosulfan II	120.0000	135.8521	113.21	85-115
18 Endrin aldehyde	120.0000	131.6978	109.75	85-115
19 Endosulfan sulfate	120.0000	132.8524	110.71	85-115
21 Endrin ketone	120.0000	133.3324	111.11	85-115

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11026.d
Lab Smp Id: ICV
Inj Date : 30-DEC-2004 22:53
Operator : dlb Inst ID: gcsv11.i
Smp Info : ICV-1.0-GCSV~42XX~-63*12*8 IND B III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 26 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ICVB.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

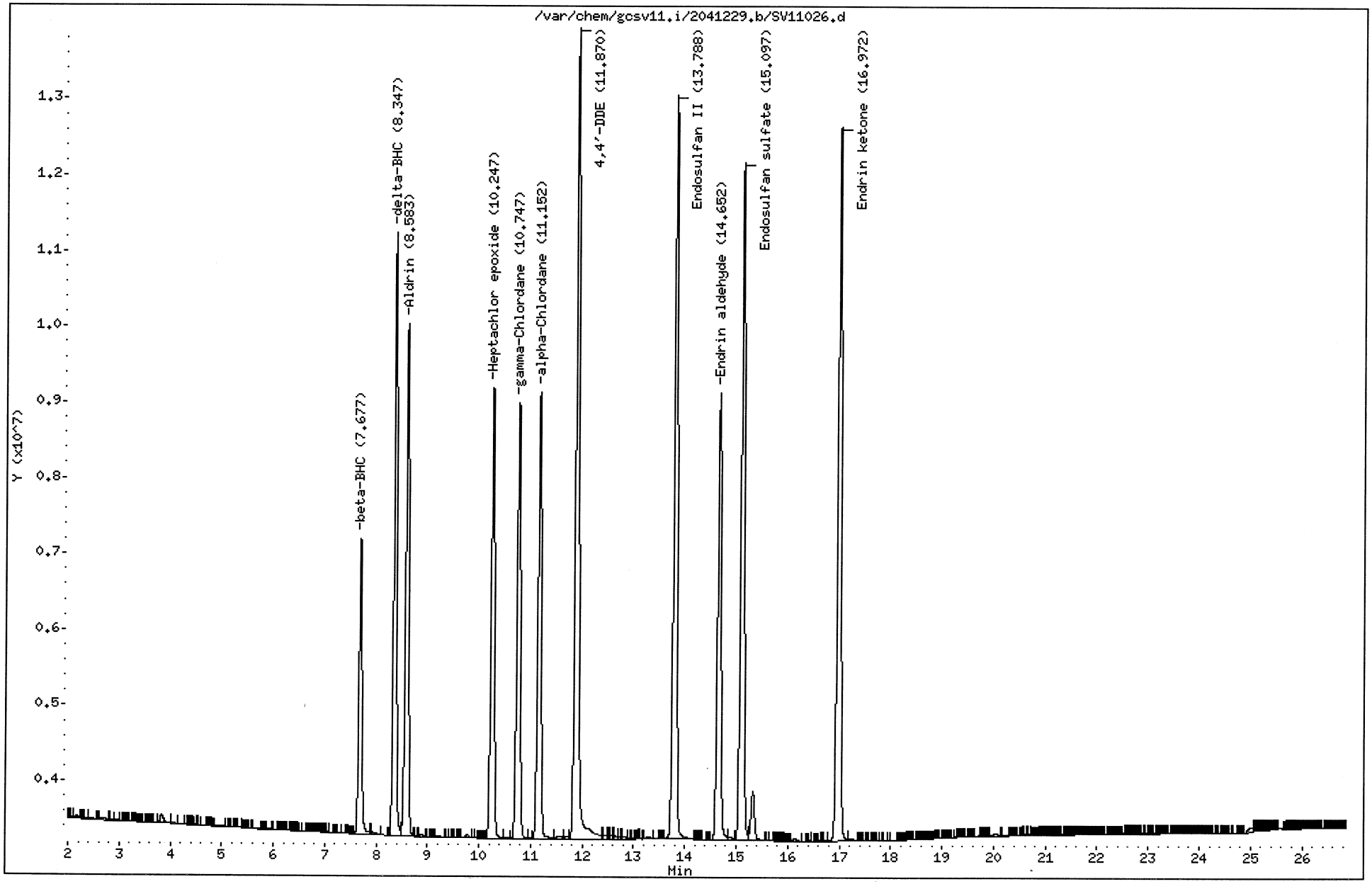
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
5 Aldrin	8.583	8.583	0.000	29390072	64.2878	64.2878
6 beta-BHC	7.677	7.676	0.001	15754272	61.5890	61.5889
7 delta-BHC	8.347	8.347	0.000	30910589	63.8713	63.8712
8 Heptachlor epoxide	10.247	10.246	0.001	26425066	62.0179	62.0178
10 gamma-Chlordane	10.747	10.746	0.001	25954215	59.5791	59.5791
11 alpha-Chlordane	11.152	11.150	0.002	26717865	58.6654	58.6654
12 4,4'-DDE	11.870	11.869	0.001	51124447	132.753	132.7532
16 Endosulfan II	13.788	13.787	0.001	45515500	135.852	135.8521
18 Endrin aldehyde	14.652	14.650	0.002	27583511	131.698	131.6978
19 Endosulfan sulfate	15.097	15.096	0.001	40534144	132.852	132.8524
21 Endrin ketone	16.972	16.972	0.000	43414079	133.332	133.3324

Data File: /var/chem/gcsv11.i/2041229.b/SV11026.d
Date : 30-DEC-2004 22:53
Client ID:
Sample Info: ICV-1.0-GCSV^42XX^-63*12*8 IND B III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: dlb
Column diameter: 0.53

000595



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11027.d
Lab Smp Id: 1205
Inj Date : 30-DEC-2004 23:24
Operator : tls Inst ID: gcsv11.i
Smp Info : 1205-1.0-GCSV~42XX~-63*13*9 CHLORDANE V
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 27 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: CHLOR.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

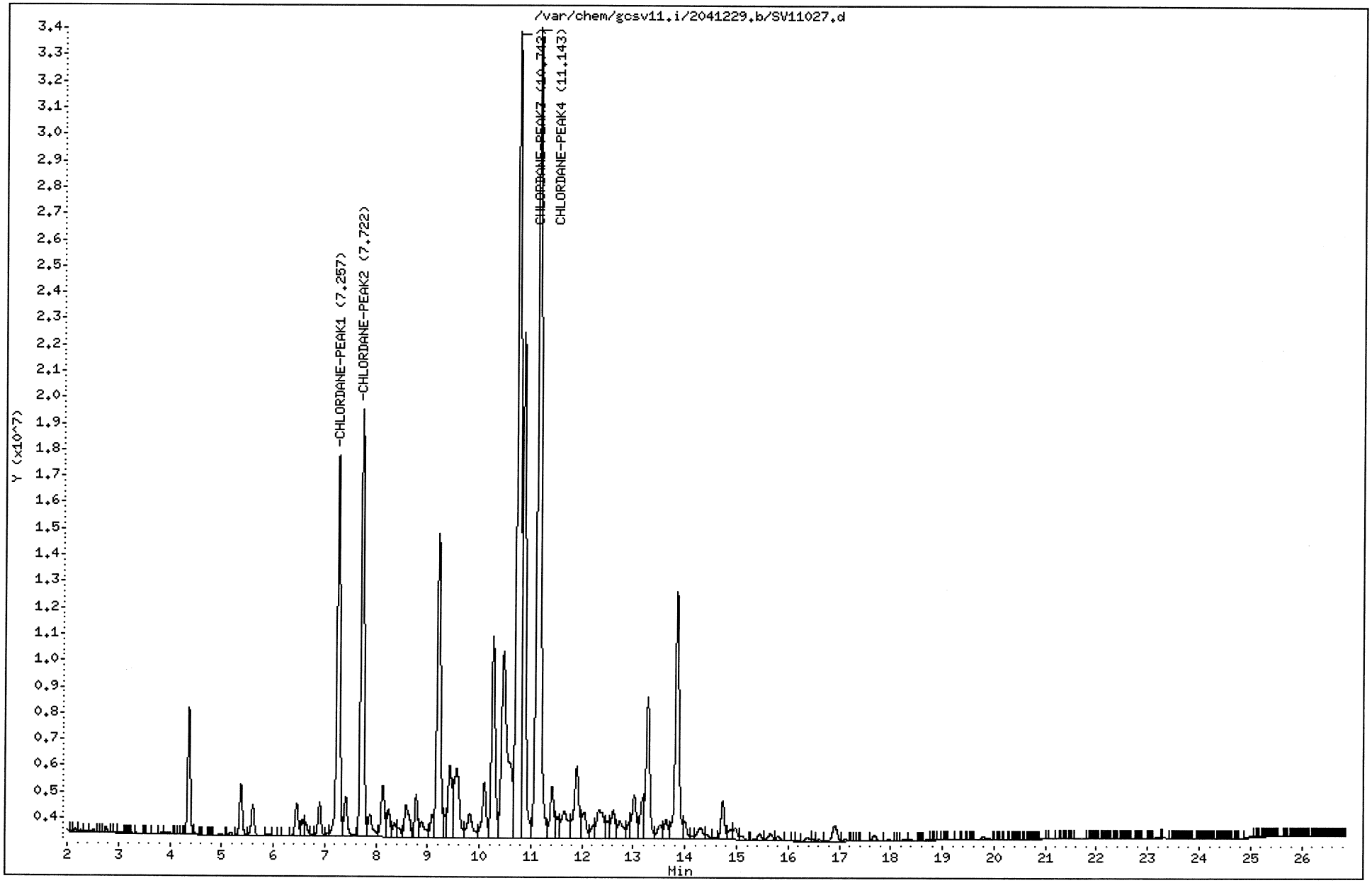
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 63 CHLORDANE-AVG				457709169	400.000	400.0000
64 CHLORDANE-PEAK1	7.257	7.255	0.002	63264749	400.000	400.0000
65 CHLORDANE-PEAK2	7.722	7.720	0.002	71944592	400.000	400.0000
66 CHLORDANE-PEAK3	10.742	10.740	0.002	152824614	400.000	400.0000
67 CHLORDANE-PEAK4	11.143	11.140	0.003	169675214	400.000	400.0000

000597

Data File: /var/chem/gcsv11.i/2041229.b/SV11027.d
Date : 30-DEC-2004 23:24
Client ID:
Sample Info: 1205-1.0-GCSV^42XX^-63*13*9 CHLORDANE V
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11028.d
Lab Smp Id: 1205
Inj Date : 30-DEC-2004 23:56
Operator : tls Inst ID: gcsv11.i
Smp Info : 1205-1.0-GCSV~42XX~-63*13*1 TOXAPHENE V
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 10-Jan-2005 16:14 hjl Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: TOX.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

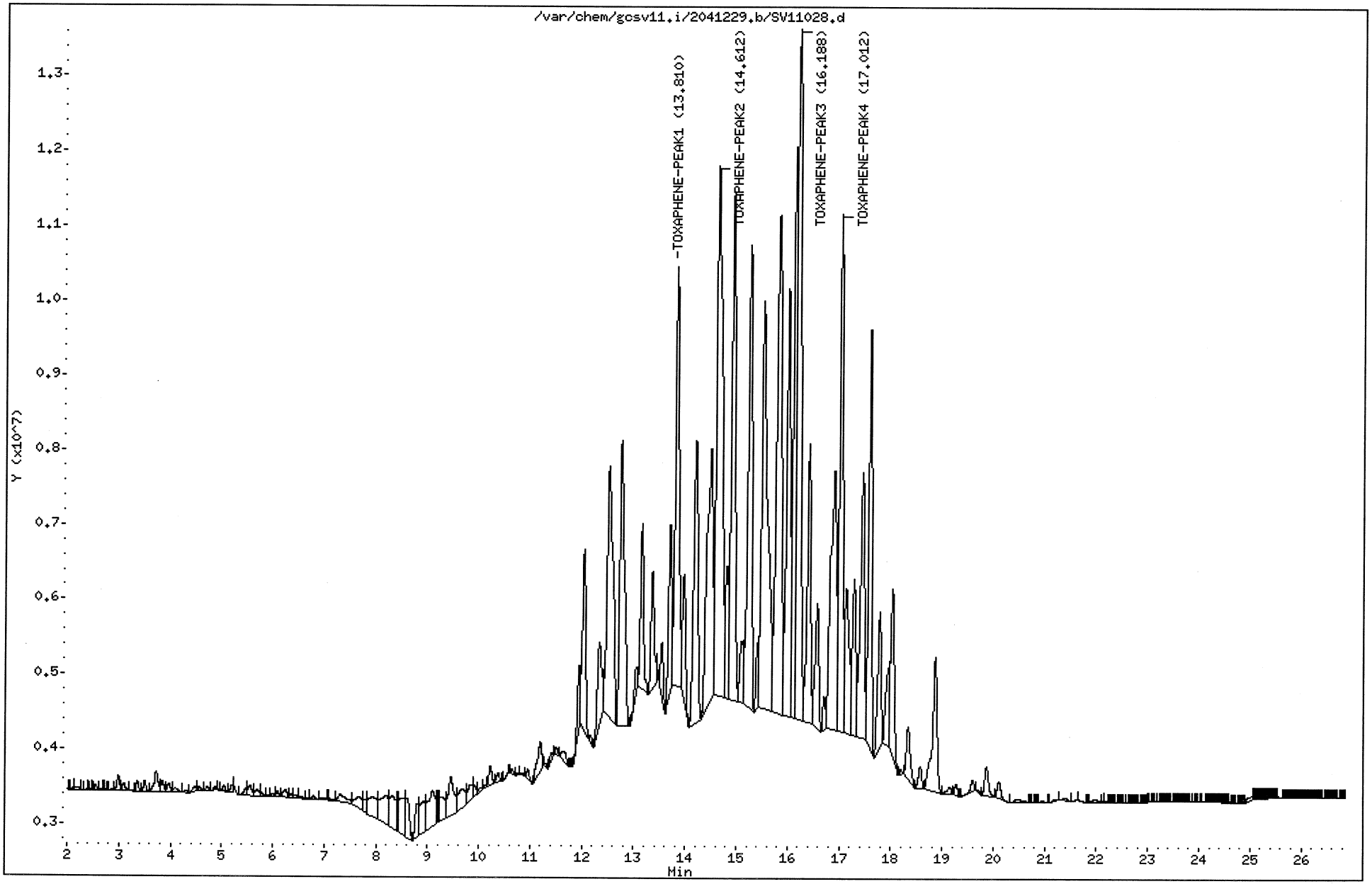
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
M 58 TOXAPHENE-AVG				167277818	5000.00	5000.0000
59 TOXAPHENE-PEAK1	13.810	13.810	0.000	28931440	5000.00	5000.0000
60 TOXAPHENE-PEAK2	14.612	14.610	0.002	54855561	5000.00	5000.0000
61 TOXAPHENE-PEAK3	16.188	16.185	0.003	50212516	5000.00	5000.0000
62 TOXAPHENE-PEAK4	17.012	17.010	0.002	33278301	5000.00	5000.0000

000599

Data File: /var/chem/gcsv11.i/2041229.b/SV11028.d
Date : 30-DEC-2004 23:56
Client ID:
Sample Info: 1205-1.0-GCSV^42XX^-63*13*1 TOXAPHENE V
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Breakdown Calculation

DDT Breakdown: Formula

$$\frac{(\text{Area DDD}) + (\text{Area DDE})}{(\text{Area DDD}) + (\text{Area DDE}) + (\text{Area DDT})} \times 100$$

DDT Breakdown: Calculation

$$\frac{870414 + 67688}{870414 + 67688 + 20456358} \times 100 = 4.4\ \%$$

DDT Breakdown: Criteria

< 15%

==========

Endrin Breakdown: Formula

$$\frac{(\text{Area Endrin ketone}) + (\text{Area Endrin aldehyde})}{(\text{Area End ket}) + (\text{Area End ald}) + (\text{Area Endrin})} \times 100$$

Endrin Breakdown: Calculation

$$\frac{1322891 + 548911}{1322891 + 548911 + 25181361} \times 100 = 6.9\ \%$$

Endrin Breakdown: Criteria

< 15%

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11029.d
Lab Smp Id: DEG
Inj Date : 31-DEC-2004 00:28
Operator : dlb Inst ID: gcsv11.i
Smp Info : DEG-1.0-GCSV~40XX~-63*20*7
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 14:31 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 29
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: deg.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

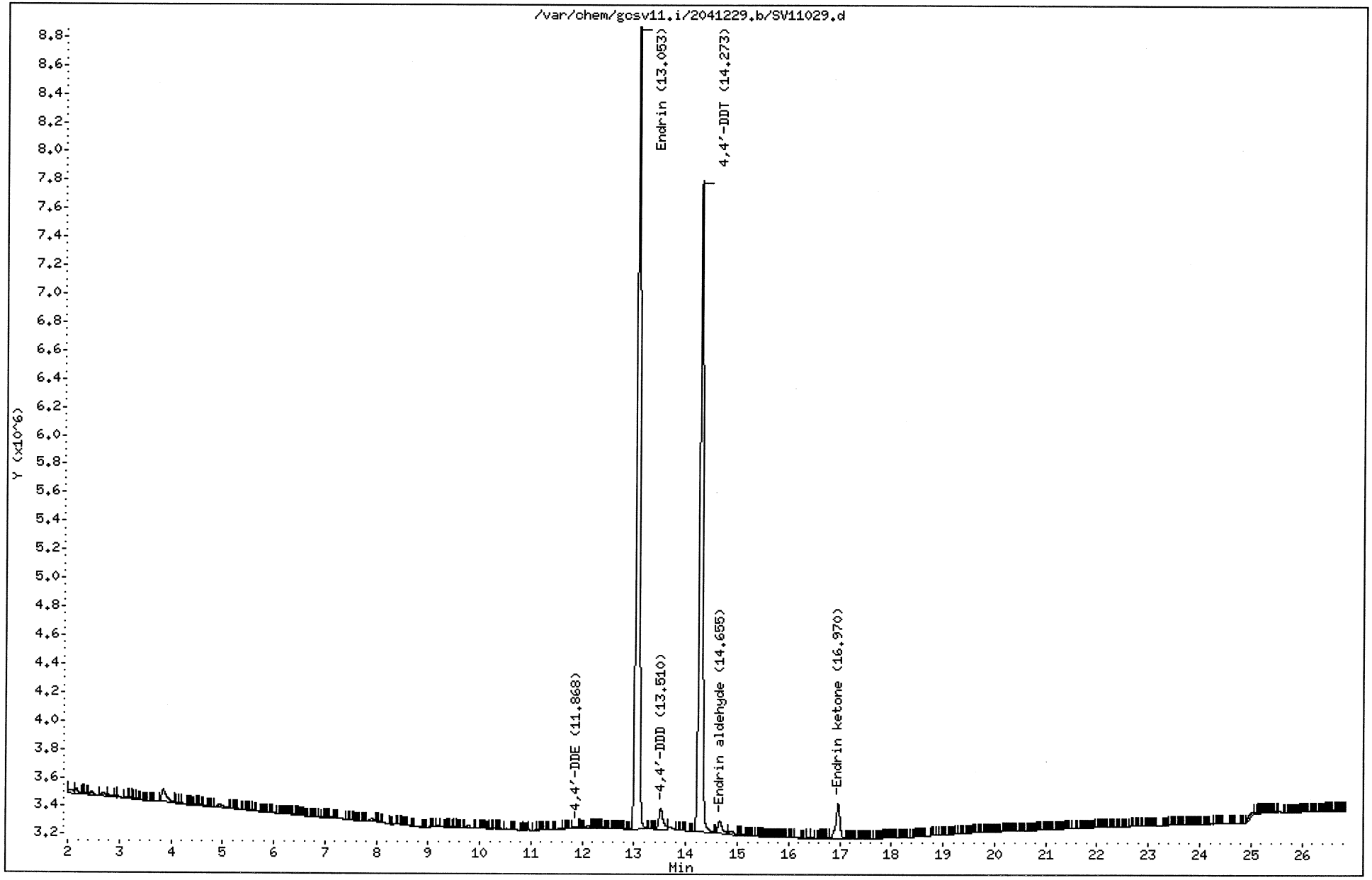
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/L)
15 4,4'-DDD	13.510	13.506	0.004	870414	3.41338	0.0341
17 4,4'-DDT	14.273	14.275	-0.002	20456358	79.5656	0.7956
12 4,4'-DDE	11.868	11.869	-0.001	67688	0.17576	0.0017
14 Endrin	13.053	13.055	-0.002	25181361	83.0824	0.8308
21 Endrin ketone	16.970	16.972	-0.002	1322891	4.06284	0.0406
18 Endrin aldehyde	14.655	14.650	0.005	548911	2.62078	0.0262

Data File: /var/chem/gcsv11.i/2041229.b/SV11029.d
Date : 31-DEC-2004 00:28
Client ID:
Sample Info: DEG-1.0-GCSV"40XX"-63*20*7
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: dlb
Column diameter: 0.53

000602



Data File: /var/chem/gcsv11.i/2041229.b/SV11040.d
Report Date: 02-Jan-2005 15:01

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv11.i
Lab File ID: SV11040.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv11.i/2041229.b/pest608.m

Injection Date: 31-DEC-2004 06:16
Init. Cal. Date(s): 29-DEC-2004 30-DEC-2004
Init. Cal. Times: 11:16 23:56
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 alpha-BHC	532711	573625	0.010	-7.68040	15.00000	Averaged
3 gamma-BHC (Lindane)	475832	502614	0.010	-5.62828	15.00000	Averaged
4 Heptachlor	391675	414527	0.010	-5.83437	15.00000	Averaged
9 Endosulfan I	364627	358649	0.010	1.63939	15.00000	Averaged
13 Dieldrin	349301	357810	0.010	-2.43608	15.00000	Averaged
14 Endrin	303089	309056	0.010	-1.96864	15.00000	Averaged
15 4,4'-DDD	255001	262942	0.010	-3.11410	15.00000	Averaged
17 4,4'-DDT	257100	260635	0.010	-1.37474	15.00000	Averaged
20 Methoxychlor	124491	116558	0.010	6.37220	15.00000	Averaged
$ 1 Tetrachloro-m-xylene	361512	363984	0.010	-0.68406	15.00000	Averaged
$ 22 Decachlorobiphenyl	322156	313260	0.010	2.76154	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.59034
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11040.d
Lab Smp Id: 1400
Inj Date : 31-DEC-2004 06:16
Operator : tls Inst ID: gcsv11.i
Smp Info : 1400-1.0-GCSV~42XX~-63*20*8 IND A III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:01 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 40 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: inda.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

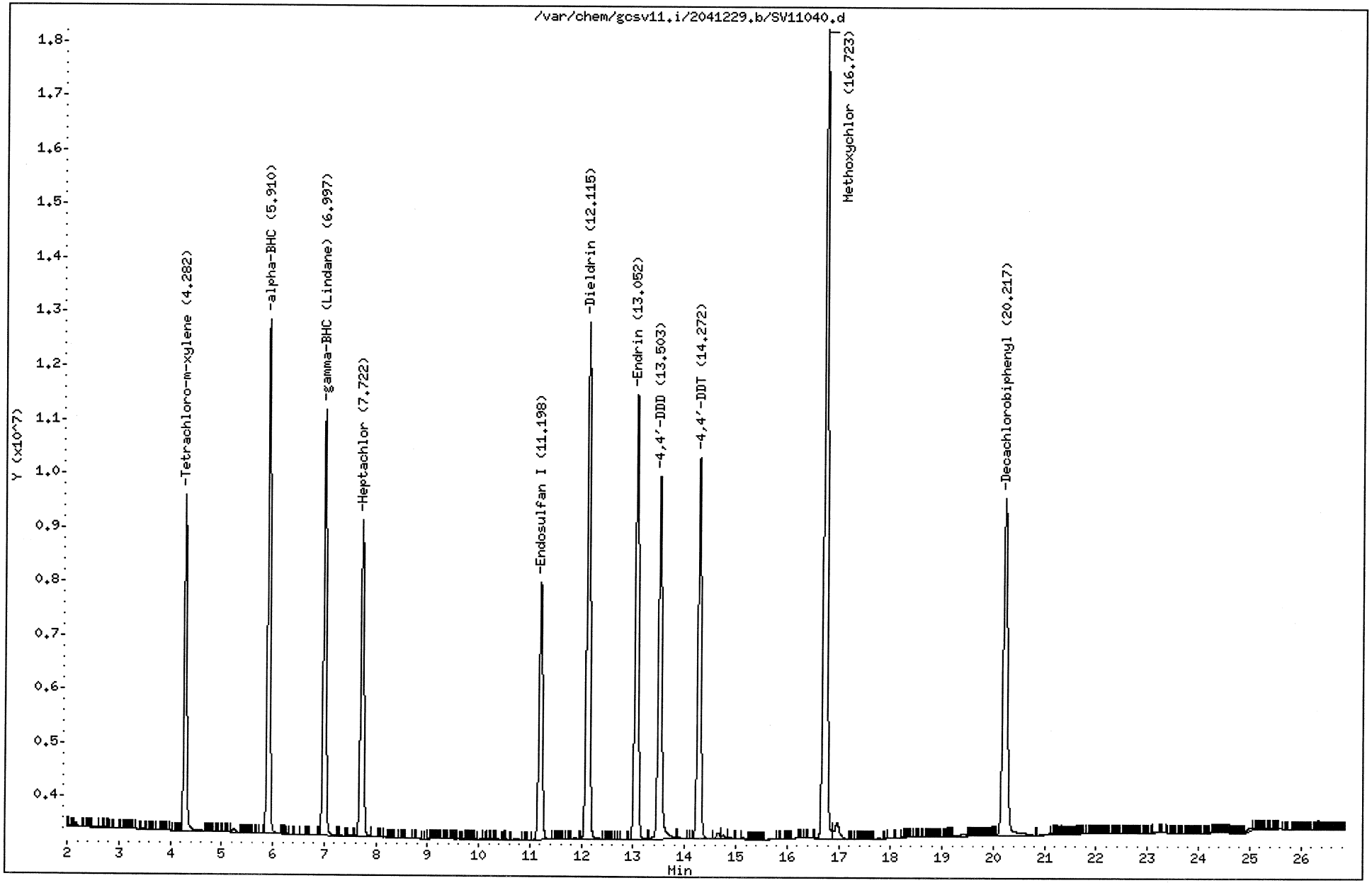
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
2 alpha-BHC	5.910	5.913	-0.003	34417528	60.0000	64.6082
3 gamma-BHC (Lindane)	6.997	7.000	-0.003	30156819	60.0000	63.3769
4 Heptachlor	7.722	7.725	-0.003	24871600	60.0000	63.5006
9 Endosulfan I	11.198	11.200	-0.002	21518942	60.0000	59.0163
13 Dieldrin	12.115	12.117	-0.002	42937222	120.000	122.9232
14 Endrin	13.052	13.054	-0.002	37086674	120.000	122.3623
15 4,4'-DDD	13.503	13.506	-0.003	31553022	120.000	123.7369
17 4,4'-DDT	14.272	14.274	-0.002	31276184	120.000	121.6496
20 Methoxychlor	16.723	16.724	-0.001	69934876	600.000	561.7668
$ 1 Tetrachloro-m-xylene	4.282	4.284	-0.002	21839068	60.0000	60.4104
$ 22 Decachlorobiphenyl	20.217	20.217	0.000	37591185	120.000	116.6861

Data File: /var/chem/gcsv11.i/2041229.b/SV11040.d
Date : 31-DEC-2004 06:16
Client ID:
Sample Info: 1400-1.0-GCSV~42XX~-63*20*8 IND A III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000605



Data File: /var/chem/gcsv11.i/2041229.b/SV11041.d
Report Date: 02-Jan-2005 15:01

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv11.i
Lab File ID: SV11041.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv11.i/2041229.b/pest608.m

Injection Date: 31-DEC-2004 06:48
Init. Cal. Date(s): 29-DEC-2004 30-DEC-2004
Init. Cal. Times: 11:16 23:56
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
5 Aldrin	457164	484114	0.010	-5.89512	15.00000	Averaged
6 beta-BHC	255797	261353	0.010	-2.17210	15.00000	Averaged
7 delta-BHC	483952	525548	0.010	-8.59511	15.00000	Averaged
8 Heptachlor epoxide	426088	440743	0.010	-3.43936	15.00000	Averaged
10 gamma-Chlordane	435626	453743	0.010	-4.15886	15.00000	Averaged
11 alpha-Chlordane	455428	471360	0.010	-3.49817	15.00000	Averaged
12 4,4'-DDE	385109	410197	0.010	-6.51449	15.00000	Averaged
16 Endosulfan II	335037	343010	0.010	-2.37965	15.00000	Averaged
18 Endrin aldehyde	209445	210509	0.010	-0.50787	15.00000	Averaged
19 Endosulfan sulfate	305106	310708	0.010	-1.83584	15.00000	Averaged
21 Endrin ketone	325608	333608	0.010	-2.45691	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.76850
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11041.d
Lab Smp Id: 1400
Inj Date : 31-DEC-2004 06:48
Operator : tls Inst ID: gcsv11.i
Smp Info : 1400-1.0-GCSV~42XX~-63*20*9 IND B III
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:01 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 41 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: indb.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

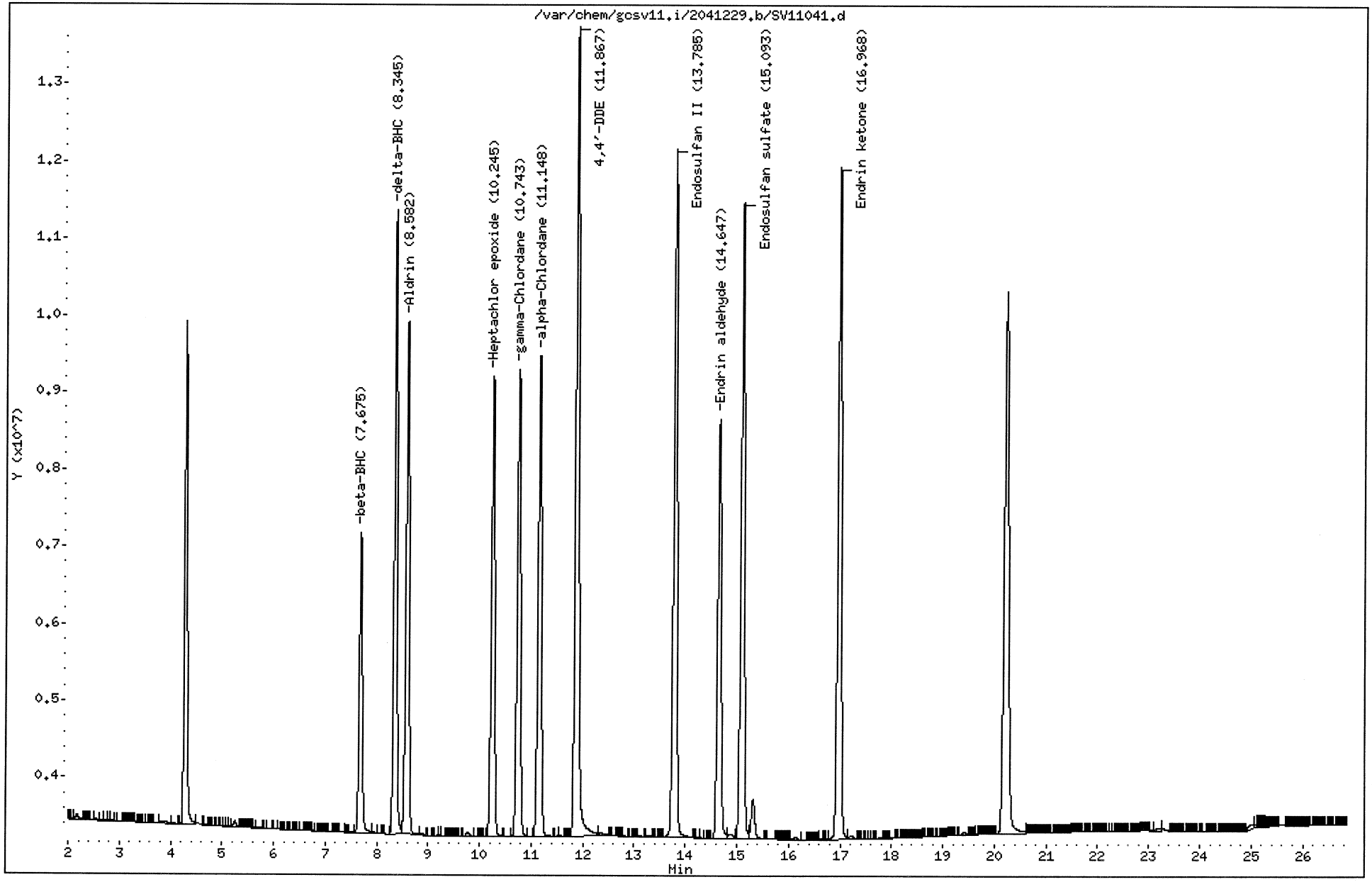
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/L)	AMOUNTS ON-COL (UG/L)
5 Aldrin	8.582	8.583	-0.001	29046850	60.0000	63.5370
6 beta-BHC	7.675	7.676	-0.001	15681190	60.0000	61.3032
7 delta-BHC	8.345	8.346	-0.001	31532862	60.0000	65.1570
8 Heptachlor epoxide	10.245	10.246	-0.001	26444559	60.0000	62.0636
10 gamma-Chlordane	10.743	10.745	-0.002	27224578	60.0000	62.4953
11 alpha-Chlordane	11.148	11.150	-0.002	28281579	60.0000	62.0989
12 4,4'-DDE	11.867	11.869	-0.002	49223587	120.000	127.8173
16 Endosulfan II	13.785	13.786	-0.001	41161168	120.000	122.8555
18 Endrin aldehyde	14.647	14.650	-0.003	25261103	120.000	120.6094
19 Endosulfan sulfate	15.093	15.096	-0.003	37284931	120.000	122.2030
21 Endrin ketone	16.968	16.971	-0.003	40032922	120.000	122.9482

Data File: /var/chem/gcsv11.i/2041229.b/SV11041.d
Date : 31-DEC-2004 06:48
Client ID:
Sample Info: 1400-1.0-GCSV~42XX~-63x20x9 IND B III
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls
Column diameter: 0.53

000608



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: MB214969
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214969
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0059
Dilution Factor: 1 Analyst: DLB
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11030

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.00	U	0.470	4.00
72-55-9	4,4'-DDE	4.00	U	0.650	4.00
50-29-3	4,4'-DDT	4.00	U	0.250	4.00
309-00-2	Aldrin	2.00	U	0.320	2.00
60-57-1	Dieldrin	4.00	U	0.280	4.00
959-98-8	Endosulfan I	2.00	U	0.340	2.00
33213-65-9	Endosulfan II	4.00	U	0.560	4.00
1031-07-8	Endosulfan sulfate	4.00	U	0.530	4.00
72-20-8	Endrin	4.00	U	0.340	4.00
7421-93-4	Endrin aldehyde	4.00	U	0.670	4.00
53494-70-5	Endrin ketone	4.00	U	0.840	4.00
76-44-8	Heptachlor	2.00	U	0.210	2.00
1024-57-3	Heptachlor epoxide	2.00	U	0.710	2.00
72-43-5	Methoxychlor	20.0	U	1.25	20.0
8001-35-2	Toxaphene	200	U	9.37	200
319-84-6	alpha-BHC	2.00	U	0.320	2.00
5103-71-9	alpha-Chlordane	2.00	U	0.360	2.00
319-85-7	beta-BHC	4.00	U	0.540	4.00
319-86-8	delta-BHC	2.00	U	0.320	2.00
58-89-9	gamma-BHC (Lindane)	2.00	U	0.630	2.00
5103-74-2	gamma-Chlordane	2.00	U	0.440	2.00

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11030.d
Lab Smp Id: 214975
Inj Date : 31-DEC-2004 00:59
Operator : tls Inst ID: gcsv11.i
Smp Info : 214975-1.0-GCSV~45XX~-2041228blk--blk 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:20 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 20:46 Cal File: SV11022.d
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

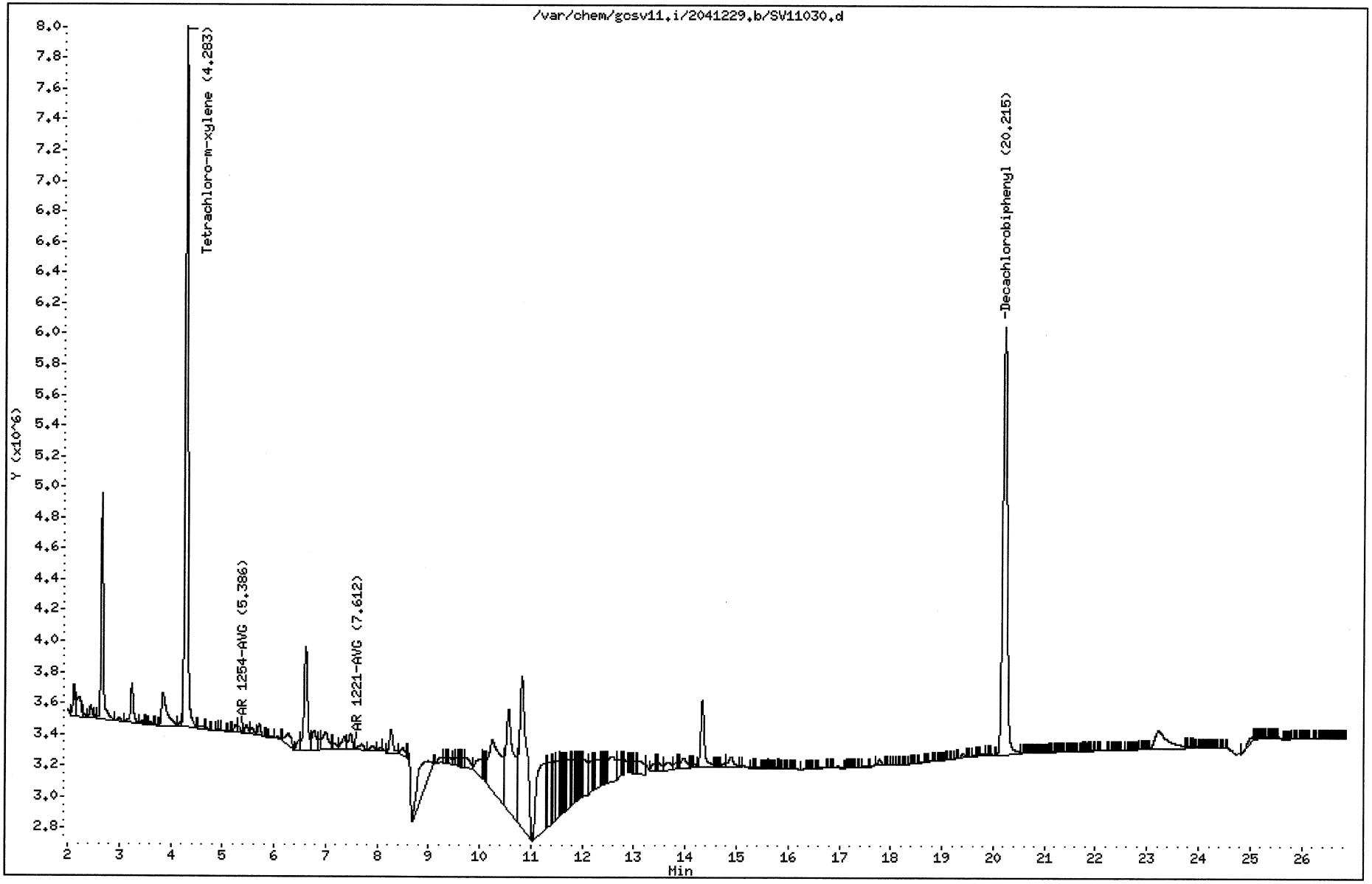
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	CONCENTRATIONS FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.283	0.000	16004199	44.2702	14.7567
$ 22 Decachlorobiphenyl	20.215	20.216	-0.001	16216215	50.3365	16.7788

Data File: /var/chem/gcsv11.i/2041229.b/SV11030.d
Date : 31-DEC-2004 00:59
Client ID:
Sample Info: 214975-1.0-GCSV~45XX~-2041228blk--blk 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000611



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: LCS214970
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214970
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0131
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11031

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	15.9		0.470	4.00
72-55-9	4,4'-DDE	14.7		0.650	4.00
50-29-3	4,4'-DDT	17.9		0.250	4.00
309-00-2	Aldrin	17.1		0.320	2.00
60-57-1	Dieldrin	16.2		0.280	4.00
959-98-8	Endosulfan I	13.6		0.340	2.00
33213-65-9	Endosulfan II	13.9		0.560	4.00
1031-07-8	Endosulfan sulfate	14.5		0.530	4.00
72-20-8	Endrin	16.4		0.340	4.00
7421-93-4	Endrin aldehyde	20.7		0.670	4.00
53494-70-5	Endrin ketone	15.9		0.840	4.00
76-44-8	Heptachlor	14.9		0.210	2.00
1024-57-3	Heptachlor epoxide	18.0		0.710	2.00
72-43-5	Methoxychlor	18.1	J	1.25	20.0
8001-35-2	Toxaphene	200	U	9.37	200
319-84-6	alpha-BHC	15.5		0.320	2.00
5103-71-9	alpha-Chlordane	15.9		0.360	2.00
319-85-7	beta-BHC	17.8		0.540	4.00
319-86-8	delta-BHC	17.0		0.320	2.00
58-89-9	gamma-BHC (Lindane)	17.3		0.630	2.00
5103-74-2	gamma-Chlordane	15.1		0.440	2.00

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11031.d
Lab Smp Id: 214970
Inj Date : 31-DEC-2004 01:31
Operator : tls Inst ID: gcsv11.i
Smp Info : 214970-1.0-GCSV~45XX~-2041228lcs--lcs 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pest.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.284	-0.001	17349715	47.9922	15.9973
2 alpha-BHC	5.913	5.913	0.000	24838136	46.6259	15.5419
3 gamma-BHC (Lindane)	7.000	7.000	0.000	24757106	52.0290	17.3430
4 Heptachlor	7.715	7.726	-0.011	17545281	44.7955	14.9318(M)
5 Aldrin	8.582	8.583	-0.001	23422752	51.2349	17.0783
6 beta-BHC	7.703	7.676	0.027	13658454	53.3957	17.7985(M)
7 delta-BHC	8.347	8.347	0.000	24705298	51.0491	17.0163
8 Heptachlor epoxide	10.247	10.246	0.001	23006778	53.9954	17.9984
9 Endosulfan I	11.183	11.201	-0.018	14827434	40.6647	13.5548(M)
10 gamma-Chlordane	10.745	10.745	0.000	19758434	45.3564	15.1188(M)
11 alpha-Chlordane	11.168	11.150	0.018	21724313	47.7009	15.9002(M)
12 4,4'-DDE	11.868	11.869	-0.001	16958937	44.0368	14.6789

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
13 Dieldrin	12.117	12.118	-0.001	17012594	48.7047	16.2348
14 Endrin	13.053	13.055	-0.002	14952643	49.3342	16.4447
15 4,4'-DDD	13.503	13.506	-0.003	12186904	47.7916	15.9305
16 Endosulfan II	13.785	13.787	-0.002	13981235	41.7304	13.9101
17 4,4'-DDT	14.275	14.275	0.000	13813028	53.7262	17.9087
18 Endrin aldehyde	14.648	14.650	-0.002	13002661	62.0814	20.6937
19 Endosulfan sulfate	15.095	15.097	-0.002	13301566	43.5965	14.5321
20 Methoxychlor	16.723	16.724	-0.001	6759100	54.2939	18.0979
21 Endrin ketone	16.970	16.972	-0.002	15504661	47.6176	15.8725
$ 22 Decachlorobiphenyl	20.213	20.217	-0.004	15698121	48.7283	16.2427

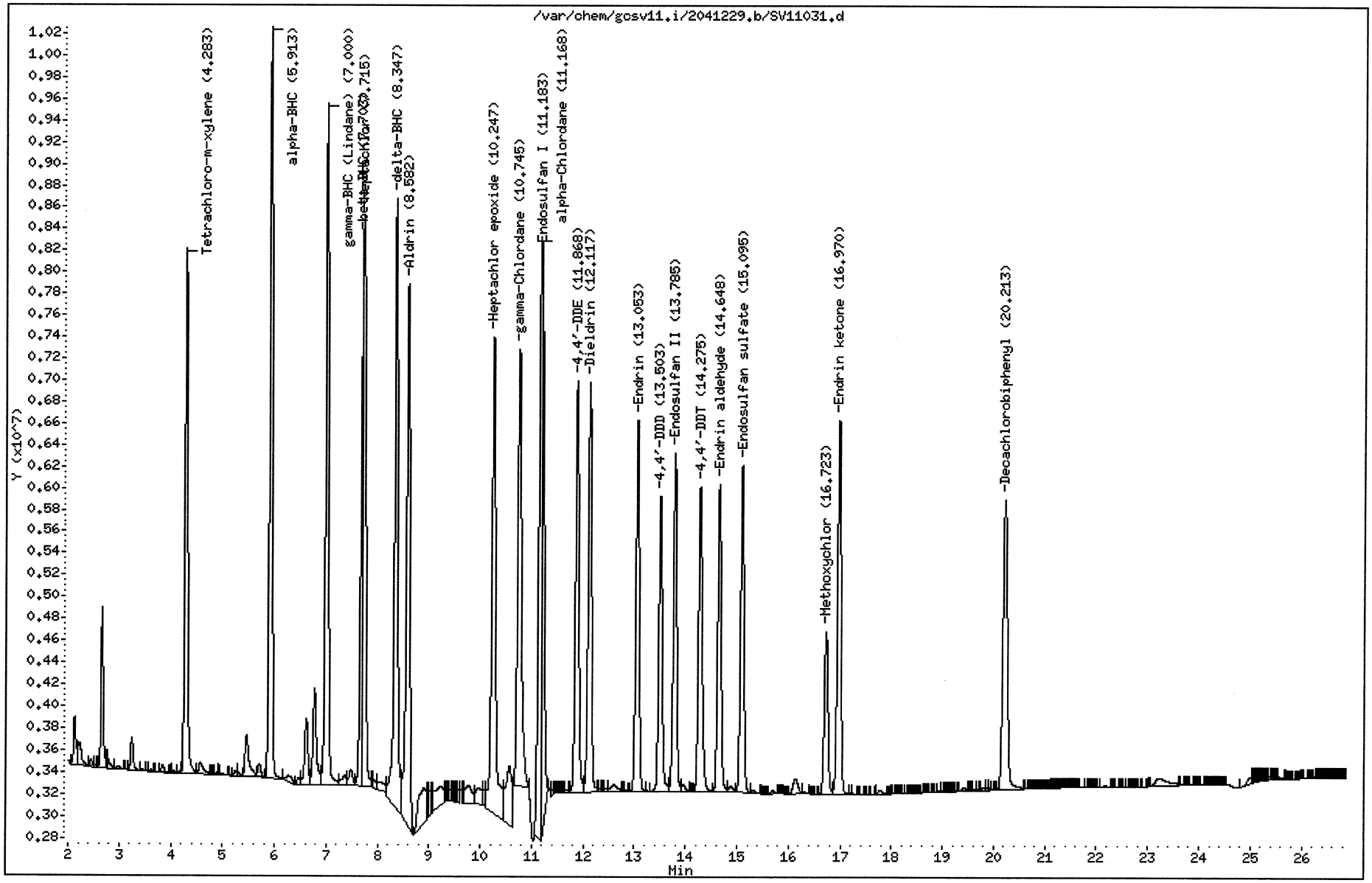
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11031.d
Date : 31-DEC-2004 01:31
Client ID:
Sample Info: 214970-1.0-GCSV~45XX~-20412281cs--lcs 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53

000615



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: LCSD214971
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214971
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0203
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11032

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	16.2		0.470	4.00
72-55-9	4,4'-DDE	15.4		0.650	4.00
50-29-3	4,4'-DDT	18.4		0.250	4.00
309-00-2	Aldrin	17.8		0.320	2.00
60-57-1	Dieldrin	17.0		0.280	4.00
959-98-8	Endosulfan I	16.8		0.340	2.00
33213-65-9	Endosulfan II	14.1		0.560	4.00
1031-07-8	Endosulfan sulfate	14.8		0.530	4.00
72-20-8	Endrin	17.2		0.340	4.00
7421-93-4	Endrin aldehyde	19.8		0.670	4.00
53494-70-5	Endrin ketone	16.1		0.840	4.00
76-44-8	Heptachlor	16.2		0.210	2.00
1024-57-3	Heptachlor epoxide	18.7		0.710	2.00
72-43-5	Methoxychlor	18.3	J	1.25	20.0
8001-35-2	Toxaphene	200	U	9.37	200
319-84-6	alpha-BHC	16.6		0.320	2.00
5103-71-9	alpha-Chlordane	15.2		0.360	2.00
319-85-7	beta-BHC	17.9		0.540	4.00
319-86-8	delta-BHC	17.6		0.320	2.00
58-89-9	gamma-BHC (Lindane)	18.4		0.630	2.00
5103-74-2	gamma-Chlordane	22.9		0.440	2.00

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11032.d
Lab Smp Id: 214971
Inj Date : 31-DEC-2004 02:03
Operator : tls Inst ID: gcsv11.i
Smp Info : 214971-1.0-GCSV~45XX~-2041228lcsd--lcsd 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 32 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pest.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.284	-0.001	18463906	51.0742	17.0247
2 alpha-BHC	5.913	5.913	0.000	26522908	49.7885	16.5961
3 gamma-BHC (Lindane)	7.000	7.000	0.000	26277850	55.2250	18.4083
4 Heptachlor	7.715	7.726	-0.011	19051296	48.6406	16.2135(M)
5 Aldrin	8.583	8.583	0.000	24463718	53.5119	17.8373
6 beta-BHC	7.702	7.676	0.026	13718234	53.6294	17.8764(M)
7 delta-BHC	8.347	8.347	0.000	25518261	52.7290	17.5763
8 Heptachlor epoxide	10.247	10.246	0.001	23901770	56.0959	18.6986
9 Endosulfan I	11.178	11.201	-0.023	18391297	50.4387	16.8129(M)
10 gamma-Chlordane	10.747	10.745	0.002	29931093	68.7083	22.9027
11 alpha-Chlordane	11.172	11.150	0.022	20766403	45.5976	15.1991(M)
12 4,4'-DDE	11.870	11.869	0.001	17793539	46.2039	15.4013

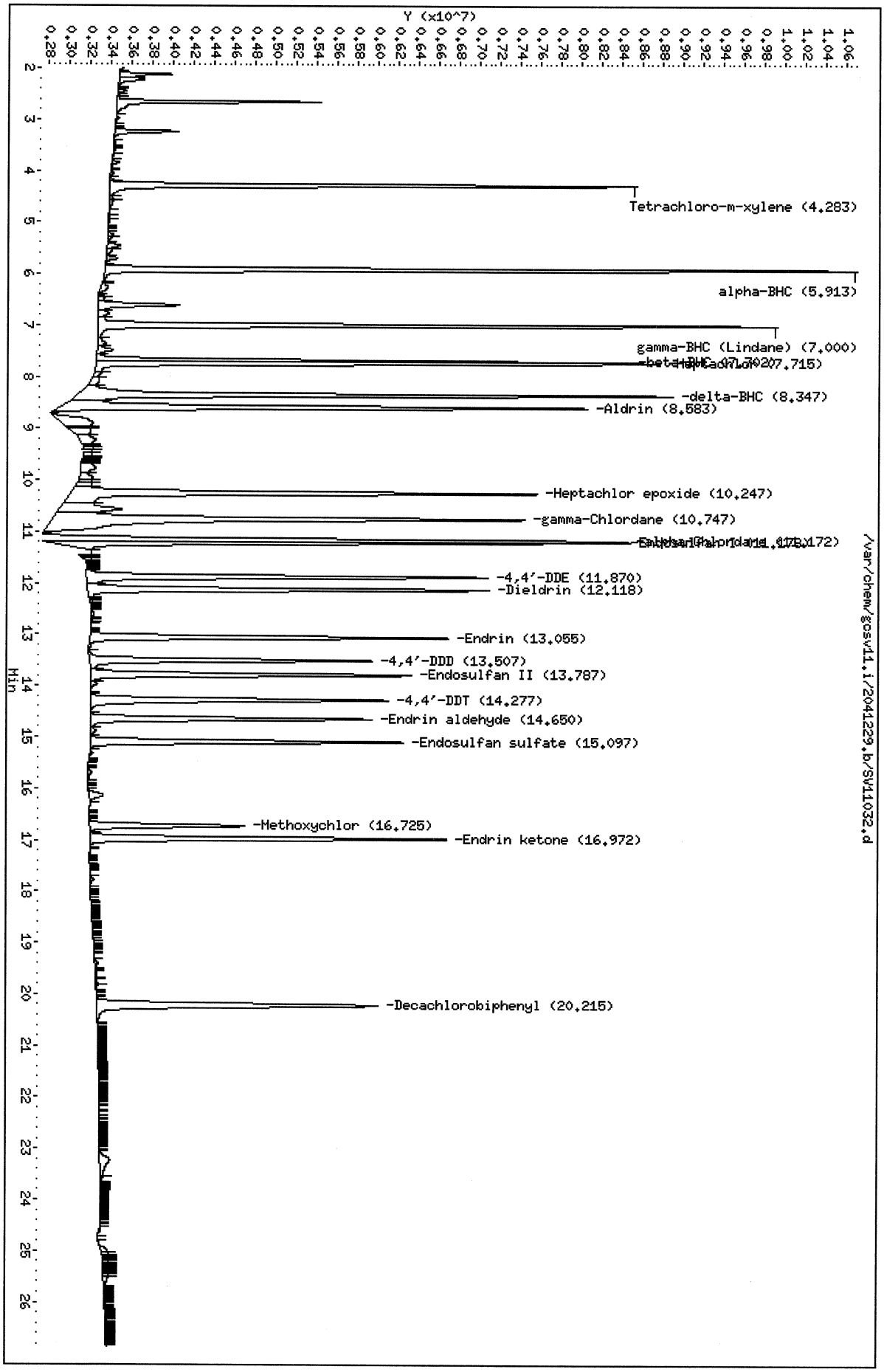
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
13 Dieldrin	12.118	12.118	0.000	17813085	50.9964	16.9987
14 Endrin	13.055	13.055	0.000	15650819	51.6377	17.2125
15 4,4'-DDD	13.507	13.506	0.001	12395858	48.6110	16.2036
16 Endosulfan II	13.787	13.787	0.000	14220135	42.4435	14.1478
17 4,4'-DDT	14.277	14.275	0.002	14166584	55.1014	18.3671
18 Endrin aldehyde	14.650	14.650	0.000	12456780	59.4750	19.8250
19 Endosulfan sulfate	15.097	15.097	0.000	13520135	44.3128	14.7709
20 Methoxychlor	16.725	16.724	0.001	6846958	54.9997	18.3332
21 Endrin ketone	16.972	16.972	0.000	15688254	48.1814	16.0604
$ 22 Decachlorobiphenyl	20.215	20.217	-0.002	16031626	49.7635	16.5878

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11032.d
Date : 31-DEC-2004 02:03
Client ID:
Sample Info: 214971-1.0-GCSV"45XX"-2041228lcsd--lcsd 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



000619

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: 001-NFF-BFC-S-122...MS
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214972
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0409
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11036

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	13.6		0.528	4.50
72-55-9	4,4'-DDE	15.5		0.731	4.50
50-29-3	4,4'-DDT	15.3		0.281	4.50
309-00-2	Aldrin	16.4		0.360	2.25
60-57-1	Dieldrin	16.0		0.315	4.50
959-98-8	Endosulfan I	9.16		0.382	2.25
33213-65-9	Endosulfan II	12.0		0.630	4.50
1031-07-8	Endosulfan sulfate	12.3		0.596	4.50
72-20-8	Endrin	14.8		0.382	4.50
7421-93-4	Endrin aldehyde	17.9		0.753	4.50
53494-70-5	Endrin ketone	12.8		0.944	4.50
76-44-8	Heptachlor	17.4		0.236	2.25
1024-57-3	Heptachlor epoxide	17.1		0.798	2.25
72-43-5	Methoxychlor	15.4	J	1.41	22.5
8001-35-2	Toxaphene	225	U	10.5	225
319-84-6	alpha-BHC	14.3		0.360	2.25
5103-71-9	alpha-Chlordane	17.8		0.405	2.25
319-85-7	beta-BHC	17.2		0.607	4.50
319-86-8	delta-BHC	17.6		0.360	2.25
58-89-9	gamma-BHC (Lindane)	17.4		0.708	2.25
5103-74-2	gamma-Chlordane	21.1		0.495	2.25

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11036.d
Lab Smp Id: 214972
Inj Date : 31-DEC-2004 04:09
Operator : tls Inst ID: gcsv11.i
Smp Info : 214972-1.0-GCSV~45XX~-204122902--4380MS 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 36 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pest.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.283	4.284	-0.001	13838143	38.2786	12.7595
2 alpha-BHC	5.912	5.913	-0.001	20289338	38.0869	12.6956
3 gamma-BHC (Lindane)	6.998	7.000	-0.002	22061340	46.3637	15.4545
4 Heptachlor	7.713	7.726	-0.013	18184703	46.4281	15.4760 (M)
5 Aldrin	8.580	8.583	-0.003	19974994	43.6933	14.5644
6 beta-BHC	7.697	7.676	0.021	11740705	45.8985	15.2995 (M)
7 delta-BHC	8.345	8.347	-0.002	22777015	47.0647	15.6882
8 Heptachlor epoxide	10.243	10.246	-0.003	19440664	45.6259	15.2086
9 Endosulfan I	11.197	11.201	-0.004	8910781	24.4381	8.1460 (M)
10 gamma-Chlordane	10.742	10.745	-0.003	24528183	56.3056	18.7685 (M)
11 alpha-Chlordane	11.167	11.150	0.017	21576513	47.3763	15.7921 (M)
12 4,4'-DDE	11.865	11.869	-0.004	15932344	41.3710	13.7903

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
13 Dieldrin	12.115	12.118	-0.003	14873042	42.5795	14.1931
14 Endrin	13.052	13.055	-0.003	12046423	39.7455	13.2485
15 4,4'-DDD	13.503	13.506	-0.003	9252691	36.2849	12.0949
16 Endosulfan II	13.783	13.787	-0.004	10742649	32.0641	10.6880
17 4,4'-DDT	14.273	14.275	-0.002	10469380	40.7210	13.5736
18 Endrin aldehyde	14.647	14.650	-0.003	9977038	47.6355	15.8784
19 Endosulfan sulfate	15.093	15.097	-0.004	9967953	32.6704	10.8901
20 Methoxychlor	16.723	16.724	-0.001	5107343	41.0258	13.6752
21 Endrin ketone	16.968	16.972	-0.004	11151690	34.2488	11.4162
$ 22 Decachlorobiphenyl	20.217	20.217	0.000	11517988	35.7528	11.9175

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11036.d

Date : 31-DEC-2004 04:09

Client ID:

Sample Info: 214972-1.0-GCSV^45XX^-204122902--4380MS 30 10

Volume Injected (uL): 1.0

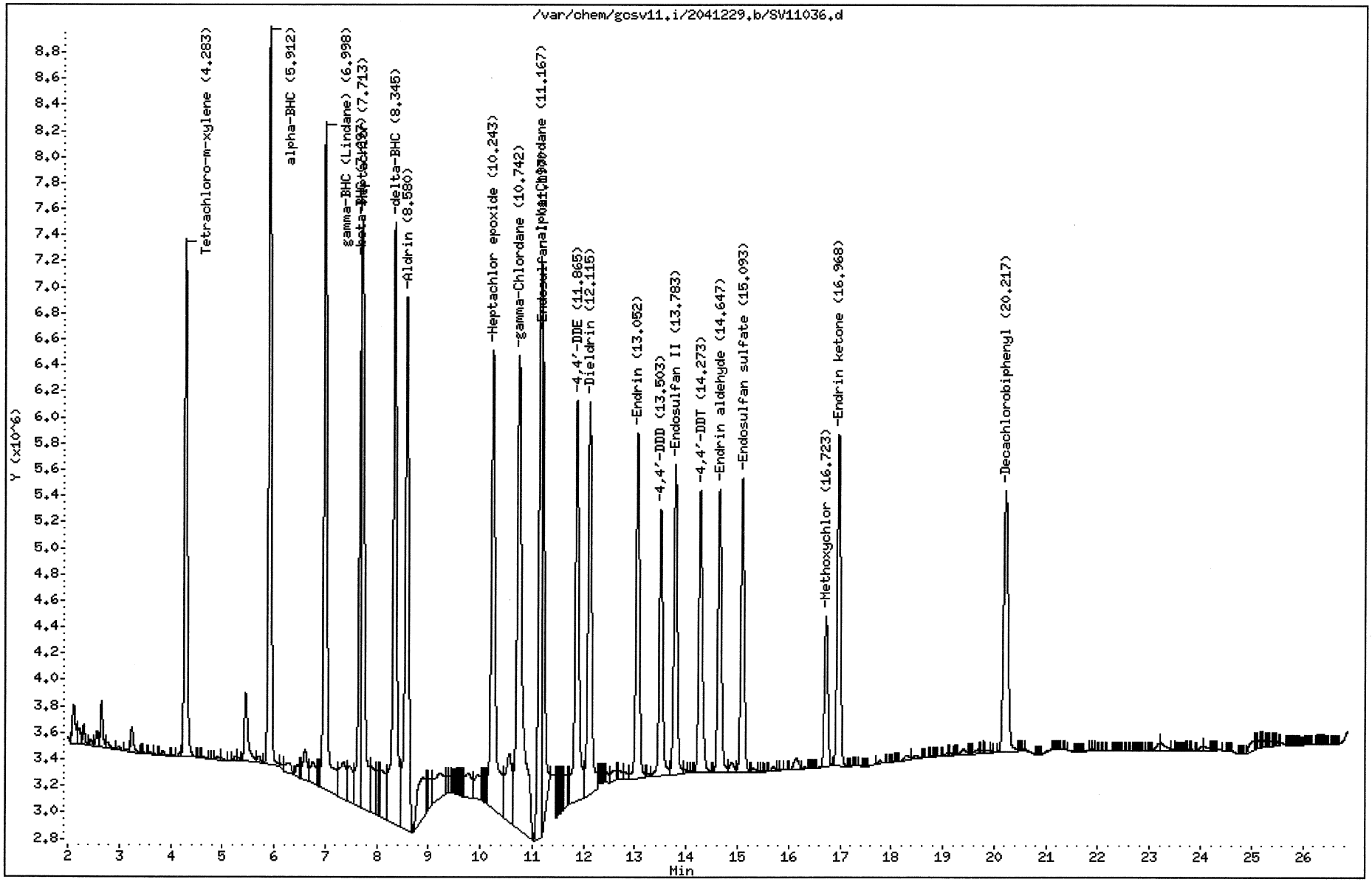
Column phase: RTX-50-30M

Instrument: gcsv11.i

Operator: tls

Column diameter: 0.53

000623



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: RTX-50-30M ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 285540 Analytical Batch: 285639

Sample ID: 001-NFF-BFC-S-12...MSD
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 214973
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/31/04 Time: 0441
Dilution Factor: 1 Analyst: TLS
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS11B
Lab File ID: 2041229/SV11037

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	13.8		0.528	4.50
72-55-9	4,4'-DDE	14.6		0.731	4.50
50-29-3	4,4'-DDT	16.6		0.281	4.50
309-00-2	Aldrin	16.6		0.360	2.25
60-57-1	Dieldrin	16.1		0.315	4.50
959-98-8	Endosulfan I	13.5		0.382	2.25
33213-65-9	Endosulfan II	12.6		0.630	4.50
1031-07-8	Endosulfan sulfate	13.3		0.596	4.50
72-20-8	Endrin	13.8		0.382	4.50
7421-93-4	Endrin aldehyde	18.5		0.753	4.50
53494-70-5	Endrin ketone	14.3		0.944	4.50
76-44-8	Heptachlor	10.8		0.236	2.25
1024-57-3	Heptachlor epoxide	19.1		0.798	2.25
72-43-5	Methoxychlor	17.2	J	1.41	22.5
8001-35-2	Toxaphene	225	U	10.5	225
319-84-6	alpha-BHC	15.3		0.360	2.25
5103-71-9	alpha-Chlordane	18.3		0.405	2.25
319-85-7	beta-BHC	23.4		0.607	4.50
319-86-8	delta-BHC	16.3		0.360	2.25
58-89-9	gamma-BHC (Lindane)	15.6		0.708	2.25
5103-74-2	gamma-Chlordane	15.0		0.495	2.25

GCAL, Inc.

Data file : /var/chem/gcsv11.i/2041229.b/SV11037.d
Lab Smp Id: 214973
Inj Date : 31-DEC-2004 04:41
Operator : tls Inst ID: gcsv11.i
Smp Info : 214973-1.0-GCSV~45XX~-204122902--4380MSD 30 10
Misc Info :
Comment :
Method : /var/chem/gcsv11.i/2041229.b/pest608.m
Meth Date : 02-Jan-2005 15:00 tls Quant Type: ESTD
Cal Date : 30-DEC-2004 23:56 Cal File: SV11028.d
Als bottle: 37 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: pest.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	10.00000	Volume of final extract (mL)
Vi	1.00000	Volume injected (uL)
Ws	30.00000	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/L)	FINAL (UG/KG)
$ 1 Tetrachloro-m-xylene	4.282	4.284	-0.002	14892196	41.1943	13.7314
2 alpha-BHC	5.912	5.913	-0.001	21715143	40.7634	13.5878
3 gamma-BHC (Lindane)	6.998	7.000	-0.002	19810506	41.6334	13.8777
4 Heptachlor	7.717	7.726	-0.009	11320983	28.9040	9.6346(M)
5 Aldrin	8.582	8.583	-0.001	20306722	44.4189	14.8063
6 beta-BHC	7.715	7.676	0.039	15986775	62.4979	20.8326(M)
7 delta-BHC	8.345	8.347	-0.002	20993822	43.3800	14.4600
8 Heptachlor epoxide	10.243	10.246	-0.003	21737757	51.0171	17.0056
9 Endosulfan I	11.190	11.201	-0.011	13167047	36.1110	12.0370(M)
10 gamma-Chlordane	10.743	10.745	-0.002	17415171	39.9774	13.3257(M)
11 alpha-Chlordane	11.168	11.150	0.018	22291130	48.9455	16.3151(M)
12 4,4'-DDE	11.865	11.869	-0.004	15040631	39.0555	13.0185

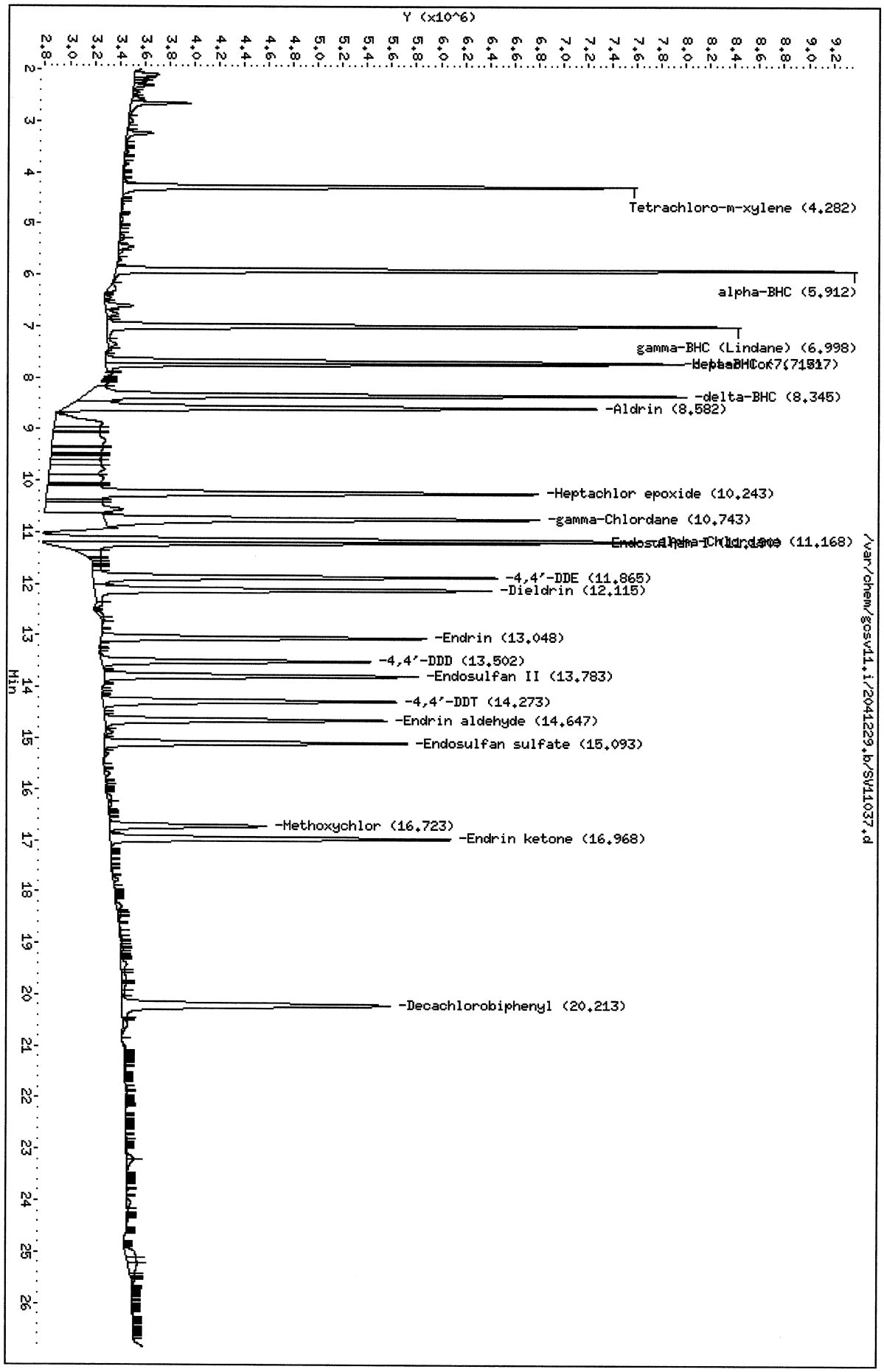
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/L)	FINAL (UG/KG)
13 Dieldrin	12.115	12.118	-0.003	14954146	42.8116	14.2705
14 Endrin	13.048	13.055	-0.007	11145047	36.7715	12.2571
15 4,4'-DDD	13.502	13.506	-0.004	9386021	36.8078	12.2692
16 Endosulfan II	13.783	13.787	-0.004	11234430	33.5319	11.1773
17 4,4'-DDT	14.273	14.275	-0.002	11416617	44.4053	14.8017
18 Endrin aldehyde	14.647	14.650	-0.003	10356112	49.4454	16.4817
19 Endosulfan sulfate	15.093	15.097	-0.004	10799142	35.3947	11.7982
20 Methoxychlor	16.723	16.724	-0.001	5721918	45.9625	15.3208
21 Endrin ketone	16.968	16.972	-0.004	12383949	38.0333	12.6777
$ 22 Decachlorobiphenyl	20.213	20.217	-0.004	13109302	40.6924	13.5641

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv11.i/2041229.b/SV11037.d
Date : 31-DEC-2004 04:41
Client ID:
Sample Info: 214973-1.0-CCSV"45XX"-2041229.02--4380MSD 30 10
Volume Injected (uL): 1.0
Column phase: RTX-50-30M

Instrument: gcsv11.i
Operator: tls
Column diameter: 0.53



EXTRACTION DATE/TIME:	12-28-04 1000	BATCH NO:	285540
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 285540 [EXTO/6825]	214969	30.0	10.0		8081	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 285540 [EXTO/6825]	214970	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 285540 [EXTO/6825	214971	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	001-NFF-BFC-S-1228-04	20412290201	30.0	10.0			
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	214972	30.0	10.0			GPC CLEANUP/3640
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	214973	30.0	10.0			
7								SONICATOR/3550 ✓
8								
9								FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No: 1-76-1
20								
21								ACETONE LOT NO: 044762
22								
23								MECL2 Lot No: 042721
24								
25								HEXANE Lot No: 044711
26								
27								Sodium Sulfate Lot No: 044031
28								

12-29-4 JPA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-12-9	8081 SPIKE ID		608 SPIKE ID	9-4-3	TECHNICIAN	DATE
VOLUME	1.0ml	VOLUME		VOLUME	0.5ml	[illegible]	12-28-04
CONCENTRATION	0.5ug/ml	CONCENTRATION		CONCENTRATION	1.0ug/ml		
[illegible]ID						SUPERVISOR	DATE
[illegible]E WITNESS	JCL					John Bailey	01/03/05

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
8081 ICV	C-817-04 1000ug/mL	VOIDED		11-24-04	TCS						
8081 ICV	63-21-1	C-617-04 1000ug/mL	NSI	C-617-04 8/06	50ul	50mL	1000ppb	Hexane 034439	TCS	11-24-04	5-24-05
TX 1005	63-21-2	DRH-TX-002-D-40X 20,000 ug/mL 1341H-0 Templ 10,000 ug/mL	Accust NSI	B304006 5/21/07 1341H-02-06 05/07	1mL 2mL	20mL	1000ppm	Pentane 041293	dlb	11-25-04	05-24-05
1501	63-21-3	Q-1084B 10,000 ug/mL	NSI	041103-08 4/05	1mL	25mL	400ppm	CS_2 024590	dlb	11-26-04	04/2005
1003	63-21-4	Q-1084C 1003	NSI	041103-08 4/05	1mL	25mL	400 ppm	CS_2 024590	dlb	11-26-04	04/2005
Dates 11-08-04 – 11-30-04 were reviewed by QA/QC Dept. on 11-30-04 DLH											
Atrazine w/Surr	63-21-5	Atraz 1000ug/mL TPP 500ug/mL	NSI	1090-08-03 exp 1/05 1702-03-01 exp 11/05	200ul 400ul	50mL	4000ppb	Hexane 043187	SJT	12/6/04	exp 12-31-04
Atrazine ICV	63-21-6	Atrazine 1000ug/ml	Supelco ~~NSI~~ exp 12/06	LB12495 exp 6/06	200ul	50mL	4000ppb	Hexane 043187	SJT	12/6/04	~~5/5/04~~ 5/5/05
IND A I Ultra	63-21-7	CLP-216-1 5/10 ug/mL	Ultra	T-1257Z 12/31/2006	50uL	50mL	5/10 ppb	hexane 043187	dlb	12/7/04	06/06/05
IND A II Ultra	63-21-8	CLP-216-1 5/10 ug/mL	Ultra	T-1257Z 12/31/2006	200uL	50mL	20/40 ppb	hexane 043187	dlb	12/7/04	06/06/05

000629

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
IND A III Ultra	63-22-1	CLP-216-1 5/10 ug/mL	Ultra	T1257Z 12/31/06	600 uL	50 mL	60/120 ppb	hexane 043187	dlb	12/7/04	6/06/05
IND A IV Ultra	63-22-2	CLP-216-1 5/10 ug/mL	Ultra	T1257Z 12/31/06	800 uL	50 mL	80/160 ppb	hexane 043187	dlb	12/7/04	6/06/05
IND A V Ultra	63-22-3	CLP-216-1 5/10 ug/mL	Ultra	T1257Z 12/31/06	1 mL	50 mL	100/200 ppb	hexane 043187	dlb	12/7/04	6/06/05
IND B I Ultra	63-22-4	CLP-226B	Ultra	U-0907A 07/31/06	50 uL	50 mL	5/10 ppb				6/06/05
IND B II Ultra	63-22-5	CLP-226B	Ultra		200 uL	50 mL	20/40 ppb				
IND B III Ultra	63-22-6	CLP-226B	Ultra		600 uL	50 mL	60/120 ppb				
IND B IV Ultra	63-22-7	CLP-226B	Ultra		800 uL	50 mL	80/160 ppb				
IND B V Ultra	63-22-8	CLP-226B	Ultra		1 mL	50 mL	100/200 ppb				
Methanol	63-22-9	Neat	Aldrich methyl Alcohol	DA-00437DA	0.1 gm	100 mL	1,000 ppm	DI H_2O	TLS	12-08-04	6-08-05
Methanol ICU	63-22-10	Neat	mallinckrodt Methyl Alcohol	U079	0.1 gm	100 mL	1,000 ppm	DI H_2O	TLS	12-08-04	6-08-05

000630

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 01/02/2005
Instrument: gcsv11.i
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Batch: /var/chem/gcsv11.i/2041229.b
Column-Detector: RTX-50-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
hexane		SV11001.d	29-DEC-2004 10:12	1.000	dlb	
DEG		SV11002.d	29-DEC-2004 10:44	1.000	dlb	
1203		SV11003.d	29-DEC-2004 11:16	1.000	tls	
1203		SV11004.d	29-DEC-2004 11:47	1.000	tls	
1203		SV11005.d	29-DEC-2004 12:19	1.000	tls	
1203		SV11006.d	29-DEC-2004 13:06	1.000	tls	
1203		SV11007.d	29-DEC-2004 13:37	1.000	tls	
1201		SV11008.d	29-DEC-2004 17:29	1.000	tls	
1202		SV11009.d	29-DEC-2004 18:01	1.000	tls	
1203		SV11010.d	29-DEC-2004 18:33	1.000	tls	
1204		SV11011.d	29-DEC-2004 19:04	1.000	tls	
1205		SV11012.d	29-DEC-2004 19:36	1.000	tls	
ICV		SV11013.d	29-DEC-2004 20:08	1.000	sjt	
DEG		SV11014.d	30-DEC-2004 16:32	1.000	dlb	
1201		SV11015.d	30-DEC-2004 17:04	1.000	tls	
1202		SV11016.d	30-DEC-2004 17:36	1.000	tls	
1203		SV11017.d	30-DEC-2004 18:07	1.000	tls	
1204		SV11018.d	30-DEC-2004 18:39	1.000	tls	
1205		SV11019.d	30-DEC-2004 19:11	1.000	tls	
ICV		SV11020.d	30-DEC-2004 19:42	1.000	dlb	
1201		SV11021.d	30-DEC-2004 20:14	1.000	tls	
1202		SV11022.d	30-DEC-2004 20:46	1.000	tls	
1203		SV11023.d	30-DEC-2004 21:18	1.000	tls	
1204		SV11024.d	30-DEC-2004 21:49	1.000	tls	
1205		SV11025.d	30-DEC-2004 22:21	1.000	tls	
ICV		SV11026.d	30-DEC-2004 22:53	1.000	dlb	
1205		SV11027.d	30-DEC-2004 23:24	1.000	tls	
1205		SV11028.d	30-DEC-2004 23:56	1.000	tls	
DEG		SV11029.d	31-DEC-2004 00:28	1.000	dlb	
214969		SV11030.d	31-DEC-2004 00:59	1.000	dlb	
214970		SV11031.d	31-DEC-2004 01:31	1.000	tls	
214971		SV11032.d	31-DEC-2004 02:03	1.000	tls	
214976		SV11033.d	31-DEC-2004 02:34	1.000	dlb	
214977		SV11034.d	31-DEC-2004 03:06	1.000	dlb	
20412290201		SV11035.d	31-DEC-2004 03:38	1.000	tls	
214972		SV11036.d	31-DEC-2004 04:09	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 01/02/2005
Instrument: gcsv11.i
Method File: /var/chem/gcsv11.i/2041229.b/pest608.m
Batch: /var/chem/gcsv11.i/2041229.b
Column-Detector: RTX-50-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
214973		SV11037.d	31-DEC-2004 04:41	1.000	tls	
214978		SV11038.d	31-DEC-2004 05:13	1.000	dlb	
214979		SV11039.d	31-DEC-2004 05:44	1.000	dlb	
1400		SV11040.d	31-DEC-2004 06:16	1.000	tls	
1400		SV11041.d	31-DEC-2004 06:48	1.000	tls	
1400		SV11042.d	31-DEC-2004 07:19	1.000	dlb	
ICV		SV11043.d	31-DEC-2004 08:11	1.000	tls	
212412		SV11044.d	31-DEC-2004 08:53	1.000	tls	
212413		SV11045.d	31-DEC-2004 09:25	1.000	tls	
212414		SV11046.d	31-DEC-2004 09:56	1.000	tls	
212379		SV11047.d	31-DEC-2004 10:28	1.000	tls	
212380		SV11048.d	31-DEC-2004 11:00	1.000	tls	
212381		SV11049.d	31-DEC-2004 11:32	1.000	tls	
DEG		SV11050.d	31-DEC-2004 12:03	1.000	tls	
1400		SV11051.d	31-DEC-2004 12:45	1.000	tls	
1400		SV11052.d	31-DEC-2004 13:16	1.000	tls	
1400		SV11053.d	31-DEC-2004 14:39	1.000	tls	
20412144108		SV11054.d	31-DEC-2004 15:20	100.000	tls	
20412144107		SV11055.d	31-DEC-2004 15:51	20.000	tls	
20412144105		SV11056.d	31-DEC-2004 16:23	10.000	tls	
20412144104		SV11057.d	31-DEC-2004 16:55	10.000	tls	
20412144103		SV11058.d	31-DEC-2004 17:27	10.000	tls	
20412144112		SV11059.d	31-DEC-2004 17:58	20.000	tls	
20412144111		SV11060.d	31-DEC-2004 18:30	100.000	tls	
20412144110		SV11061.d	31-DEC-2004 19:02	2.000	tls	
20412144109		SV11062.d	31-DEC-2004 19:34	20.000	tls	
20412144102		SV11063.d	31-DEC-2004 20:05	1.000	tls	
1400		SV11064.d	31-DEC-2004 20:37	1.000	tls	
1400		SV11065.d	31-DEC-2004 21:09	1.000	tls	
20412220502		SV11066.d	31-DEC-2004 21:41	2.000	tls	
20412220503		SV11067.d	31-DEC-2004 22:12	5.000	tls	
1400		SV11068.d	31-DEC-2004 22:44	1.000	tls	
1400		SV11069.d	31-DEC-2004 23:16	1.000	tls	
DEG		SV11070.d	02-JAN-2005 09:06	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1.	001-NFF-BFC-S-1228-04	87				78				0
2.	MB215091	94				68				0
3.	LCS215092	94				57				0
4.	LCSD215093	94				54				0
5.	001-NFF-BFC-S-122...MS	91				87				0
6.	001-NFF-BFC-S-12...MSD	92				90				0

		CONTROL LIMITS	
SMC 1 :	O-Terphenyl	22	123
SMC 2 :	Nonatriacontane	25	135

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 001-NFF-BFC-S-1228-04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: FLORIDA PRO

Prep Batch: 285562 Analytical Batch: 285631

Spike HSN : 215094

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	76400	5230	74100	90		62 - 204

Spike Dupe HSN : 215095

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	76400	75200	92		2		62 - 204	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

FORM III ORG-2

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

Contract: Method: FLORIDA PRO

Prep Batch: 285562 Analytical Batch: 285631

Spike HSN : 215092

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	68000	0	61200	90		63 - 153

Spike Dupe HSN : 215093

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	68000	63600	94		4		63 - 153	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB215091

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 215091

SAS No.: SDG No.: 204122902

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 12/29/04

Date Analyzed (1): 12/30/04 Time (1): 1753

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: 285562 Analytical Batch: 285631

Lab File ID: 2041230/SV14B0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS215092	215092	12/30/04	1824		
2.	LCSD215093	215093	12/30/04	1853		
3.	001-NFF-BFC-S-1228-04	20412290201	12/30/04	1923		
4.	001-NFF-BFC-S-122...MS	215094	12/30/04	1953		
5.	001-NFF-BFC-S-12...MSD	215095	12/30/04	2022		

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

Level: (low/med) LOW

% Moisture: 11 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: 285562 Analytical Batch: 285631

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-1228-04

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 20412290201

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/29/04

Date Analyzed: 12/30/04 Time: 1923

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2041230/SV14B056S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8990	U	5620	8990

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b056d.d
Lab Smp Id: 20412290201
Inj Date : 30-DEC-2004 19:23
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 20412290201
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.113	7.118	-0.005	897563639	293.646	23491.6545(M)

DL= 8000

QC Flag Legend

M - Compound response manually integrated.

dlb
12/31/04

$$\frac{897563639 - 719872658}{3056621} \cdot \frac{2000}{25} = 4651 \text{ ug/kg}$$

<DL

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b056s.d
Lab Smp Id: 20412290201
Inj Date : 30-DEC-2004 19:23
Operator : dlb
Smp Info : 20412290201
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb
Cal Date : 12-DEC-2004 12:29
Als bottle: 56
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50

Inst ID: gcsv14b.i
Quant Type: ESTD
Cal File: sv14b060s.d
Compound Sublist: Wch2msurr.sub

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)	CONCENTRATIONS FINAL (ug/Kg)
$ 7 O-TERPHENYL	7.113	7.118	-0.005	143692220	43.5190	3481.5190
$ 18 Nonatriacontane	16.570	16.632	-0.062	576180438	232.315	18585.1730

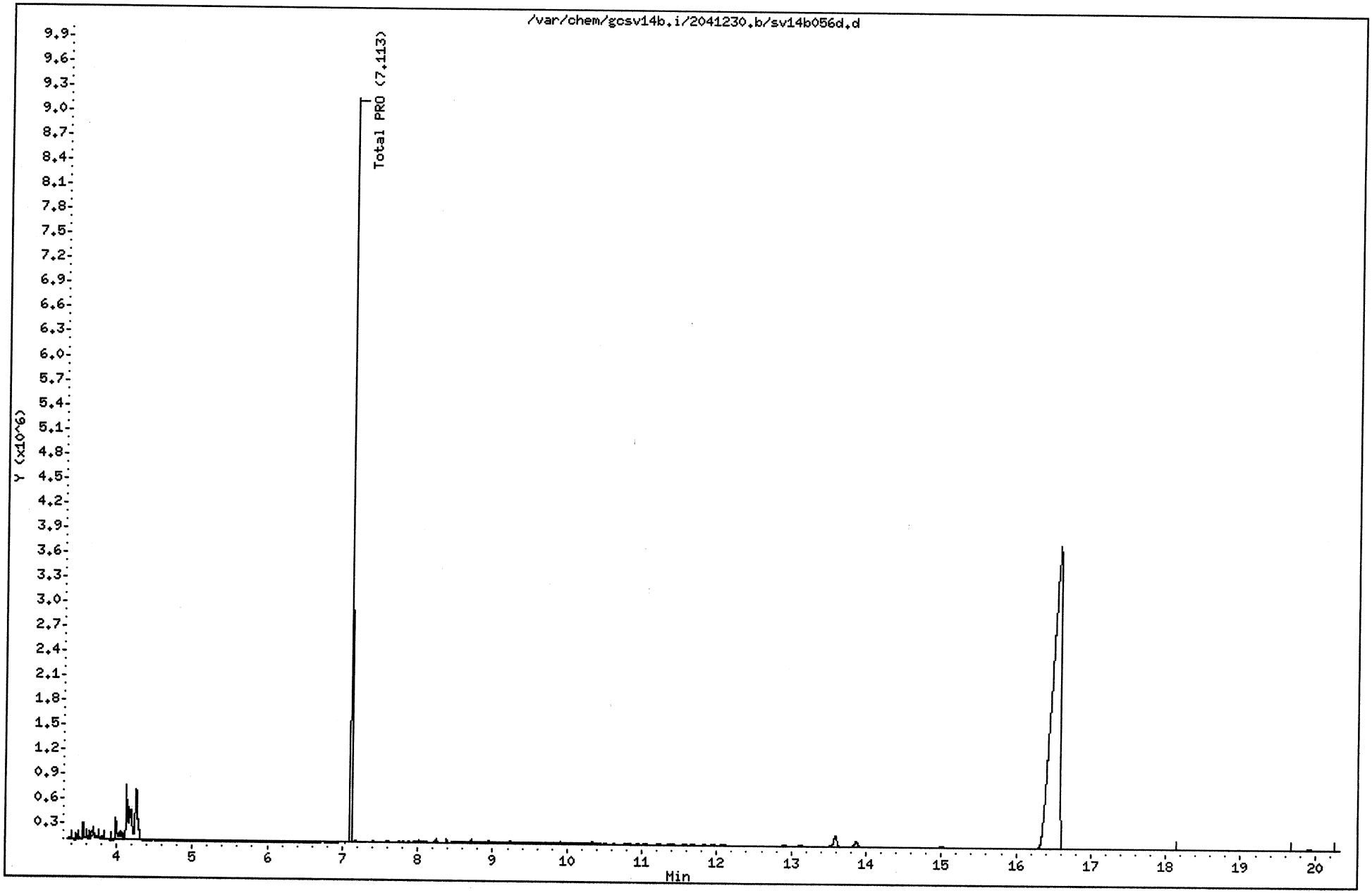
719872658

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b056d.d
Date : 30-DEC-2004 19:23
Client ID:
Sample Info: 20412290201
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000640



Data File: /var/chem/gcsv14b.i/2041230.b/sv14b056s.d

Date : 30-DEC-2004 19:23

Client ID:

Instrument: gcsv14b.i

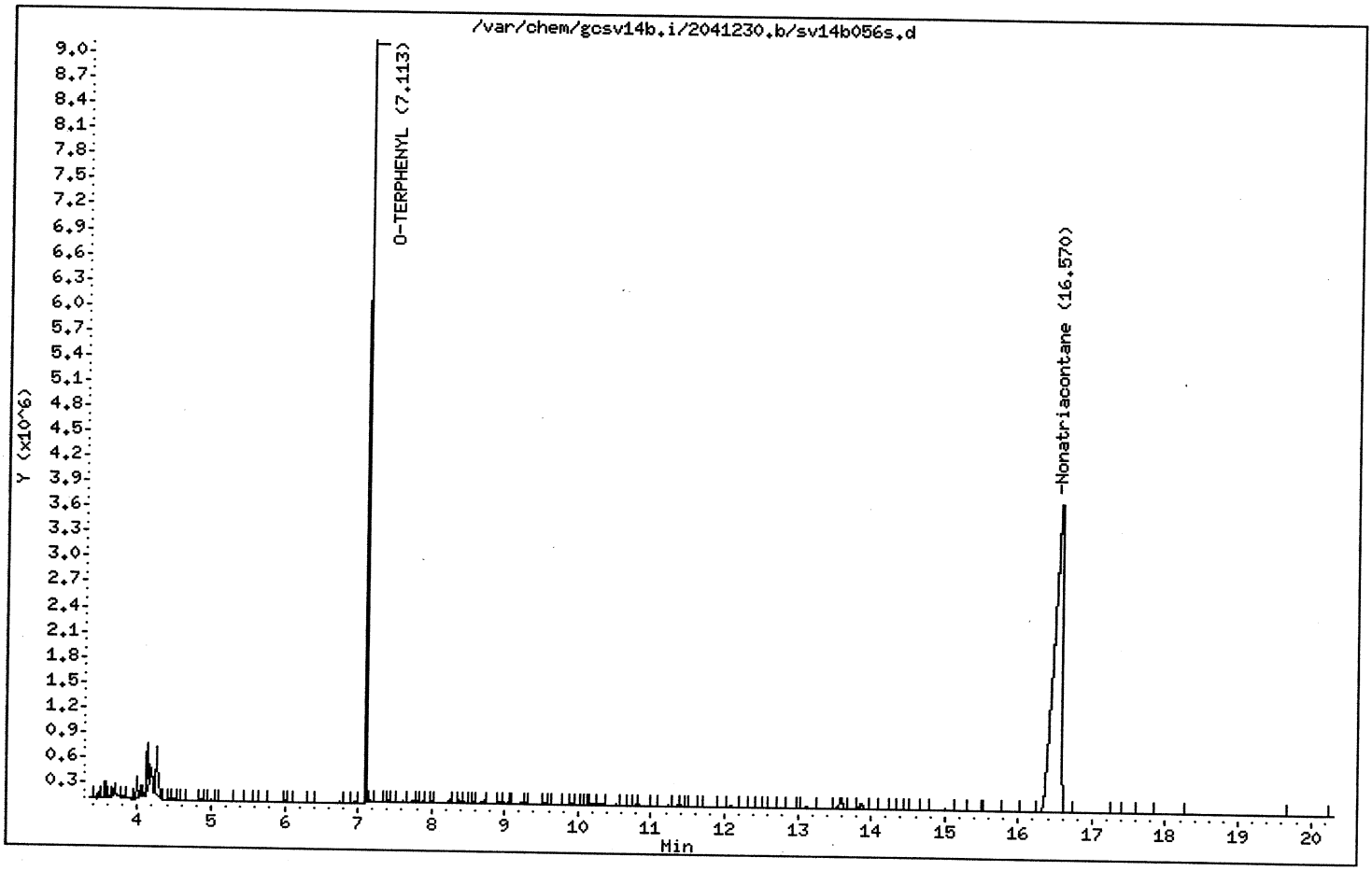
Sample Info: 20412290201

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-DEC-2004 09:21
End Cal Date : 12-DEC-2004 12:29
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2041212.b/flpro.m
Cal Date : 11-Jan-2005 11:38 dlb
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2041212.b/sv14b059d.d
Level 2: /var/chem/gcsv14b.i/2041212.b/sv14b054d.d
Level 3: /var/chem/gcsv14b.i/2041212.b/sv14b055d.d
Level 4: /var/chem/gcsv14b.i/2041212.b/sv14b056d.d
Level 5: /var/chem/gcsv14b.i/2041212.b/sv14b060d.d

Compound	6.000 Level 1	50.000 Level 2	150.000 Level 3	250.000 Level 4	350.000 Level 5	___ 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	4049027	2914945	2876611	2804460	2638063	3056621	18.479
$ 7 O-TERPHENYL	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 18 Nonatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	+++++

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-DEC-2004 09:21
End Cal Date : 12-DEC-2004 12:29
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2041212.b/flpro.m
Cal Date : 11-Jan-2005 11:38 dlb
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 85.2873764                 |
|Maximun Average %RSD    =         20                 |
|* Failed Average %RSD Test.                          |
|_____________________________________________________|
```

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-DEC-2004 09:21
End Cal Date : 12-DEC-2004 12:29
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2041212.b/flsur.m
Cal Date : 11-Jan-2005 11:33 dlb
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv14b.i/2041212.b/sv14b059s.d
Level 2: /var/chem/gcsv14b.i/2041212.b/sv14b054s.d
Level 3: /var/chem/gcsv14b.i/2041212.b/sv14b055s.d
Level 4: /var/chem/gcsv14b.i/2041212.b/sv14b056s.d
Level 5: /var/chem/gcsv14b.i/2041212.b/sv14b060s.d

Compound	6.000 Level 1	50.000 Level 2	150.000 Level 3	250.000 Level 4	350.000 Level 5	___ RRF	% RSD
$ 7 O-TERPHENYL	3267872	3292136	3351694	3372608	3224831	3301828	1.834
$ 18 Nonatriacontane	2588388	2617958	2764154	2503213	1927150	2480172	13.029

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-DEC-2004 09:21
End Cal Date : 12-DEC-2004 12:29
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv14b.i/2041212.b/flsur.m
Cal Date : 11-Jan-2005 11:33 dlb
Curve Type : Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.43181562                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b059.d
Lab Smp Id: 1201
Inj Date : 12-DEC-2004 11:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1201-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 13:09 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 59 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.116	7.121	-0.005	1352910660	102.000	276.1277(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1352910660 - 939909931}{102} = \frac{413000729}{102} = 4049027$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b059s.d
Lab Smp Id: 1201
Inj Date : 12-DEC-2004 11:58
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1201-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flsur.m
Meth Date : 12-Dec-2004 12:30 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059s.d
Als bottle: 59 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.115	7.124	-0.009	163393625	50.0000	49.1051
$ 18 Nonatriacontane	16.617	16.497	0.120	776516306	300.000	338.8200

939909931

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b054.d
Lab Smp Id: 1202
Inj Date : 12-DEC-2004 09:21
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1202-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 09:41 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 09:21 Cal File: sv14b054.d
Als bottle: 54 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.110	7.121	-0.011	3427697505	850.000	716.0514 (M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3427697505 - 949994249}{850} = \frac{2477703256}{850} = 2914945$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b054s.d
Lab Smp Id: 1202
Inj Date : 12-DEC-2004 09:21
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1202-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flsur.m
Meth Date : 12-Dec-2004 09:44 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 09:21 Cal File: sv14b054s.d
Als bottle: 54 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.109	7.124	-0.015	164606776	50.0000	51.5276
$ 18 Nonatriacontane	16.571	16.681	-0.110	785387473	300.000	355.8263

949994249

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b055.d
Lab Smp Id: 1203
Inj Date : 12-DEC-2004 09:51
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1203-1 flpro 150
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 12:02 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 09:51 Cal File: sv14b055.d
Als bottle: 55 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.204	7.121	0.083	8332188878	2550.00	1689.5442(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{8332188878 - 996830899}{2550} = \frac{7335357979}{2550} = 2876611$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b055s.d
Lab Smp Id: 1203
Inj Date : 12-DEC-2004 09:51
Operator : dlb
Smp Info : 1203-1 flpro 150
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flsur.m
Meth Date : 12-Dec-2004 12:02 dlb
Cal Date : 12-DEC-2004 09:51
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50
Processing Host: hpchem

Inst ID: gcsv14b.i

Quant Type: ESTD
Cal File: sv14b055s.d
Calibration Sample, Level: 3

Compound Sublist: flsurr.sub

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.109	7.124	-0.015	167584701	50.0000	51.0076
$ 18 Nonatriacontane	16.570	16.537	0.033	829246198	300.000	386.3022

996830899

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b056.d
Lab Smp Id: 1204
Inj Date : 12-DEC-2004 10:21
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1204-1 flpro 250
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 12:02 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 10:21 Cal File: sv14b056.d
Als bottle: 56 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.210	7.121	0.089	12838551127	4250.00	2603.3135(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{12838551127 - 919594336}{4250} = \frac{11918956791}{4250} = 2804460$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b056s.d
Lab Smp Id: 1204
Inj Date : 12-DEC-2004 10:21
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 1204-1 flpro 250
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flsur.m
Meth Date : 12-Dec-2004 12:02 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 10:21
Cal File: sv14b056s.d
Als bottle: 56
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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.110	7.124	-0.014	168630417	50.0000	51.3259
$ 18 Nonatriacontane	16.566	16.537	0.029	750963919	300.000	349.8346

919594336

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b060.d
Lab Smp Id: 1205
Inj Date : 12-DEC-2004 12:29
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 1205-1 flpro 350
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 12:53 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060.d
Als bottle: 69 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)/(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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	6.773	7.121	-0.348	16435862661	5950.00	5596.0734(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{16435862661 - 739386389}{5950} = \frac{15696476272}{5950} = 2638063$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b060s.d
Lab Smp Id: 1205
Inj Date : 12-DEC-2004 12:29
Operator : dlb
Smp Info : 1205-1 flpro 350
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flsur.m
Meth Date : 12-Dec-2004 12:52 dlb
Cal Date : 12-DEC-2004 12:29
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50
Processing Host: hpchem

Inst ID: gcsv14b.i

Quant Type: ESTD
Cal File: sv14b060s.d
Calibration Sample, Level: 5

Compound Sublist: flsurr.sub

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.113	7.124	-0.011	161241530	50.0000	48.7764
$ 18 Nonatriacontane	16.567	16.617	-0.050	578144859	300.000	252.4284

739386389

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: PROicv.spk
Sublist File: PRO.sub
Method File: /var/chem/gcsv14b.i/2041212.b/flpro.m
Misc Info:

Client SDG: 2041212
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
20 Total PRO	850.0000	795.9044	93.64	85-115

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041212.b/sv14b061.d
Lab Smp Id: ICV
Inj Date : 12-DEC-2004 13:20
Operator : dlb Inst ID: gcsv14b.i
Smp Info : ICV-1 50flpro
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041212.b/flpro.m
Meth Date : 12-Dec-2004 13:42 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 61 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	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	7.631	7.121	0.510	2432778396	795.904	795.9044(M)

QC Flag Legend

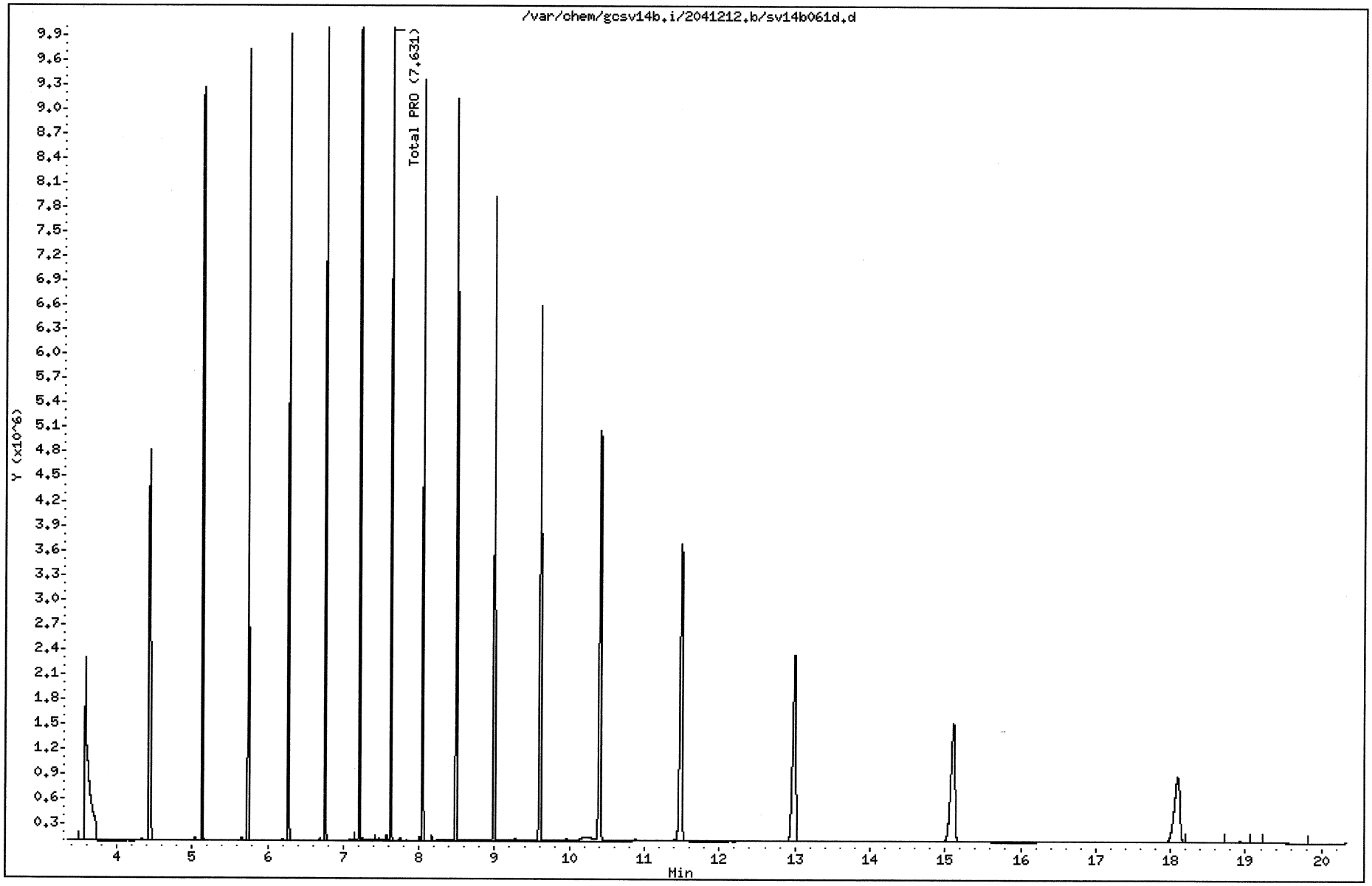
M - Compound response manually integrated.

Data File: /var/chem/gcsv14b.i/2041212.b/sv14b061d.d
Date : 12-DEC-2004 13:20
Client ID:
Sample Info: ICV-1 50flpro
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000658



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Instrument ID: GCSV14b Calibration Date: 12/30/04 Time: 1724

Lab File ID: SV14b052 Init. Calib. Date(s): 12/12/04 12/12/04

Init. Calib. Times: 1609 1229

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	3056621	3046599		0.3	25
O-TERPHENYL	3301828	3383286		2.5	25
Nonatriacontane	2480172	2377481		4.1	25

All other compounds must meet a minimum RRF of 0.010.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b052d.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 17:24
Operator : dlb
Smp Info : 1400-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb
Cal Date : 12-DEC-2004 11:58
Als bottle: 52
Dil Factor: 1.00000
Integrator: HP Genie
Target Version: 3.50

Inst ID: gcsv14b.i

Quant Type: ESTD
Cal File: sv14b059.d
Continuing Calibration Sample

Compound Sublist: PRO.sub

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.118	7.117	0.001	3472018092	850.000	1135.9006(M)

dlb 12/31/04

QC Flag Legend

M - Compound response manually integrated.

$$\frac{3472018092 - 882408655}{850} = \frac{3046599 - 3056621}{3056621} \cdot 100 = .3\%$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b052s.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 17:24
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 1400-1 flpro 50
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29
Cal File: sv14b060s.d
Als bottle: 52
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: Wch2msurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.118	7.118	0.000	169164294	50.0000	51.2335
$ 18 Nonatriacontane	16.632	16.632	0.000	713244361	300.000	287.5785

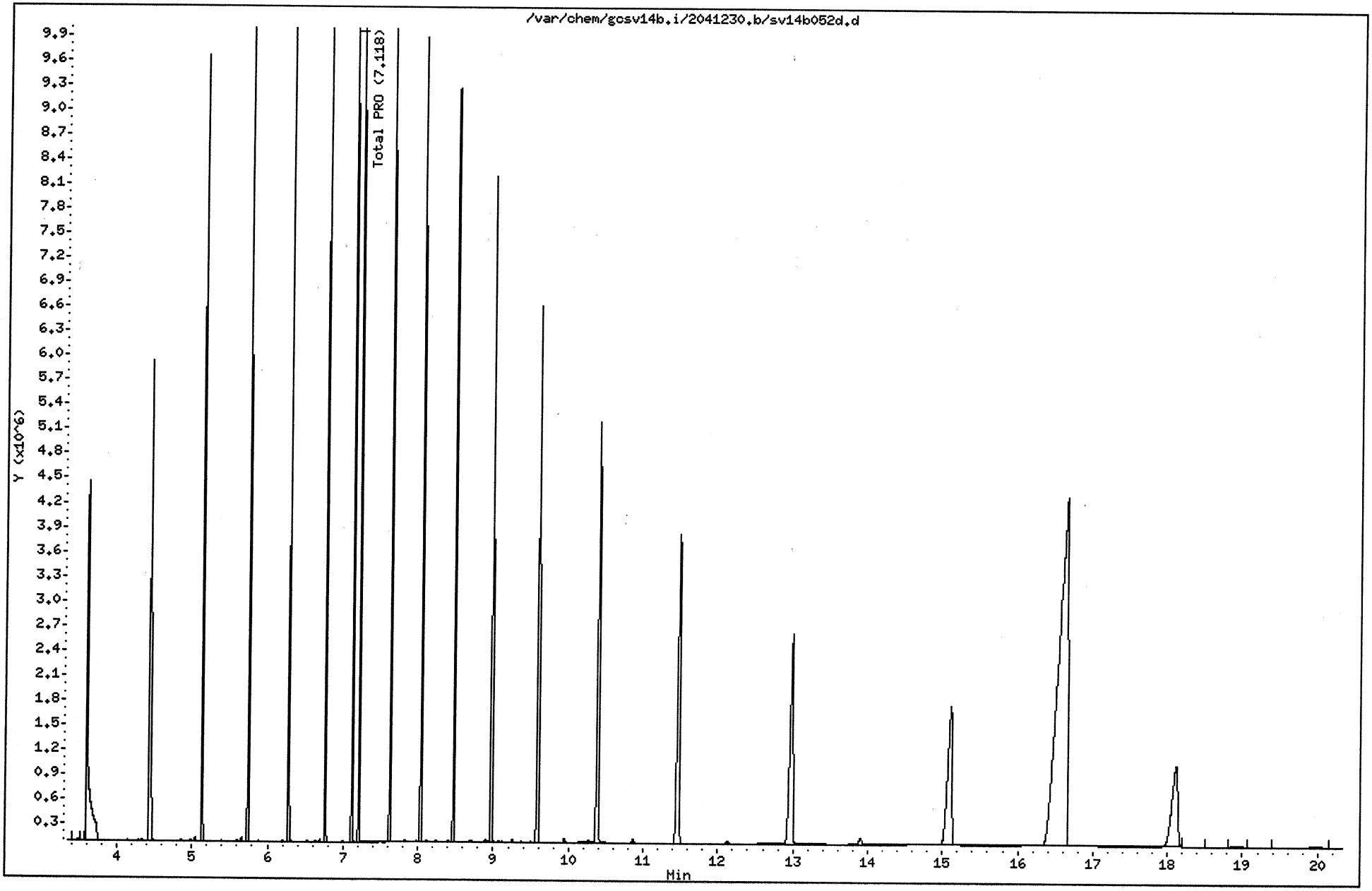
882408655

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b052d.d
Date : 30-DEC-2004 17:24
Client ID:
Sample Info: 1400-1 flpro 50
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000662



Data File: /var/chem/gcsv14b.i/2041230.b/sv14b052s.d

Date : 30-DEC-2004 17:24

Client ID:

Instrument: gcsv14b.i

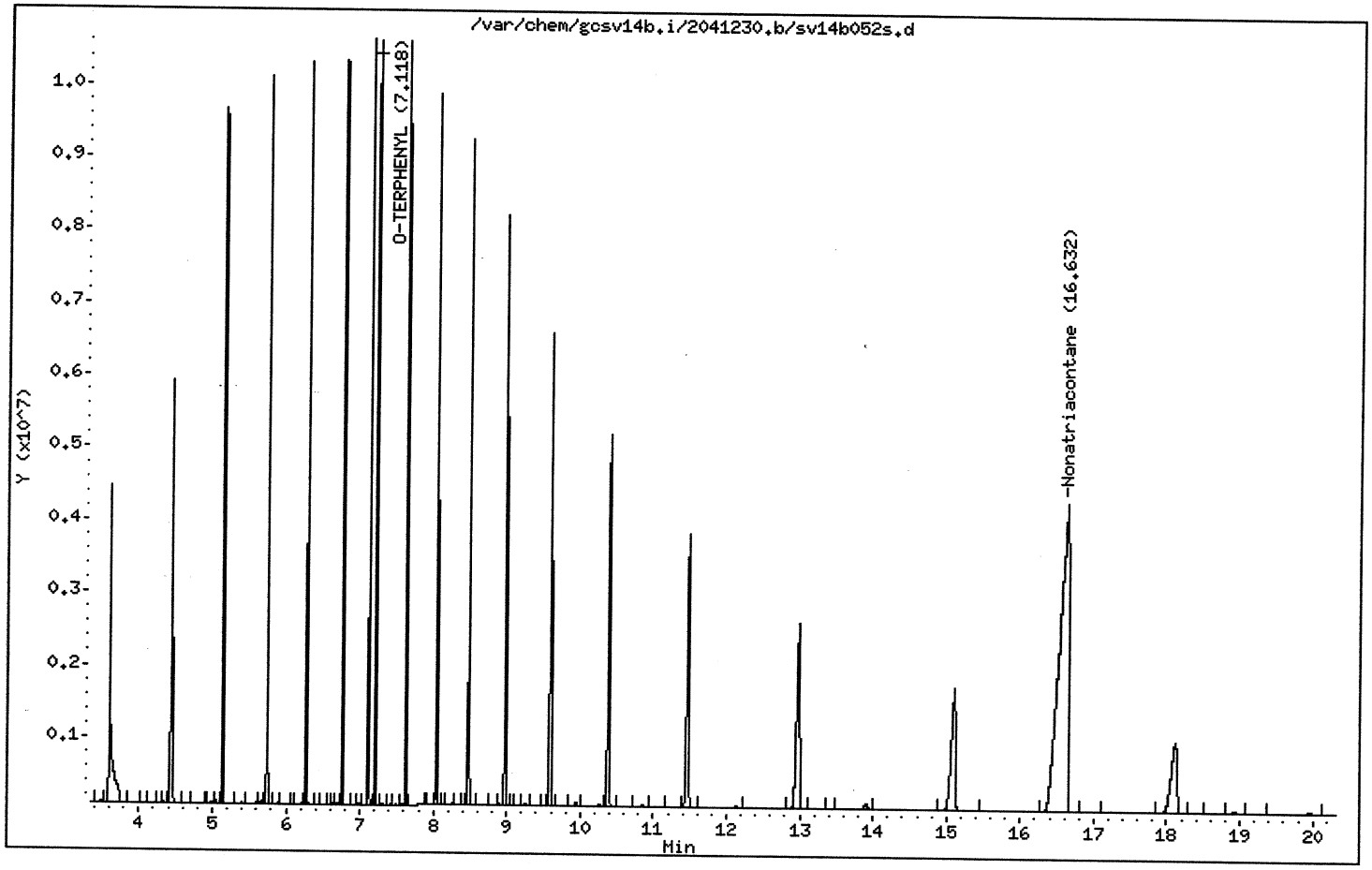
Sample Info: 1400-1 flpro 50

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Instrument ID: GCSV14b Calibration Date: 12/30/04 Time: 2052

Lab File ID: SV14b059 Init. Calib. Date(s): 12/12/04 12/12/04

Init. Calib. Times: 1609 1229

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	3056621	4258042		39.3	25
O-TERPHENYL	3301828	3336674		1.1	25
Nonatriacontane	2480172	2423643		2.3	25

All other compounds must meet a minimum RRF of 0.010.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b059d.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 20:52
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 1400-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58
Cal File: sv14b059.d
Als bottle: 59
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: PRO.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
20 Total PRO	7.113	7.117	-0.004	1328246827	850.000	434.5473(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1328246827 - 893926523}{102} = \frac{4258042 - 3056621}{3056621} \cdot 100 = 39\%$$

Narr: CCV failed high / No target analytes present in the associated sample.

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b059s.d
Lab Smp Id: 1400
Inj Date : 30-DEC-2004 20:52
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 1400-1 flpro 6
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29
Cal File: sv14b060s.d
Als bottle: 59
Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: Wch2msurr.sub
Target Version: 3.50

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	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	7.112	7.118	-0.006	166833694	50.0000	50.5276
$ 18 Nonatriacontane	16.588	16.632	-0.044	727092829	300.000	293.1622

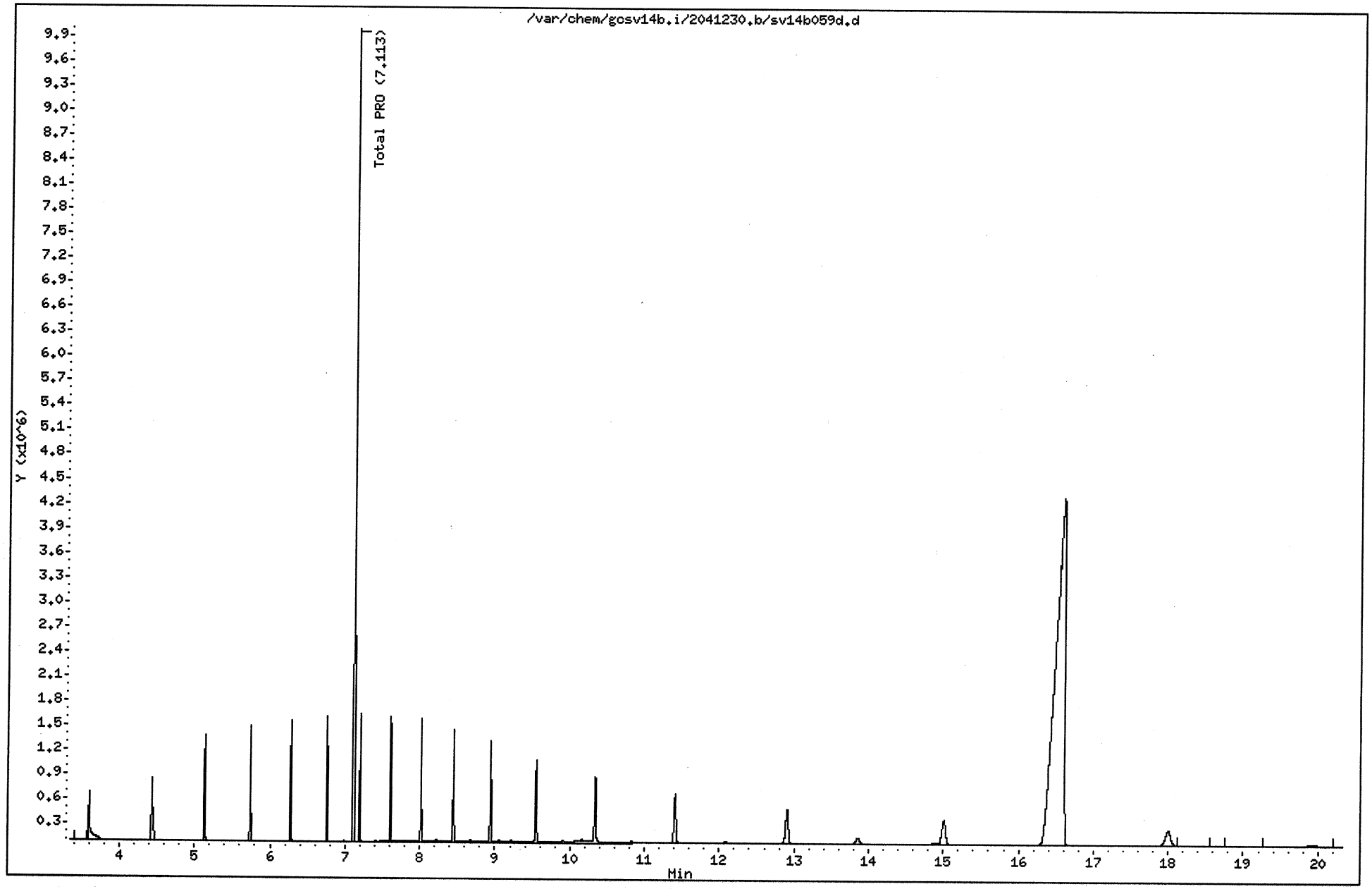
893926523

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b059d.d
Date : 30-DEC-2004 20:52
Client ID:
Sample Info: 1400-1 flpro 6
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000667



Data File: /var/chem/gcsv14b.i/2041230.b/sv14b059s.d

Date : 30-DEC-2004 20:52

Client ID:

Instrument: gcsv14b.i

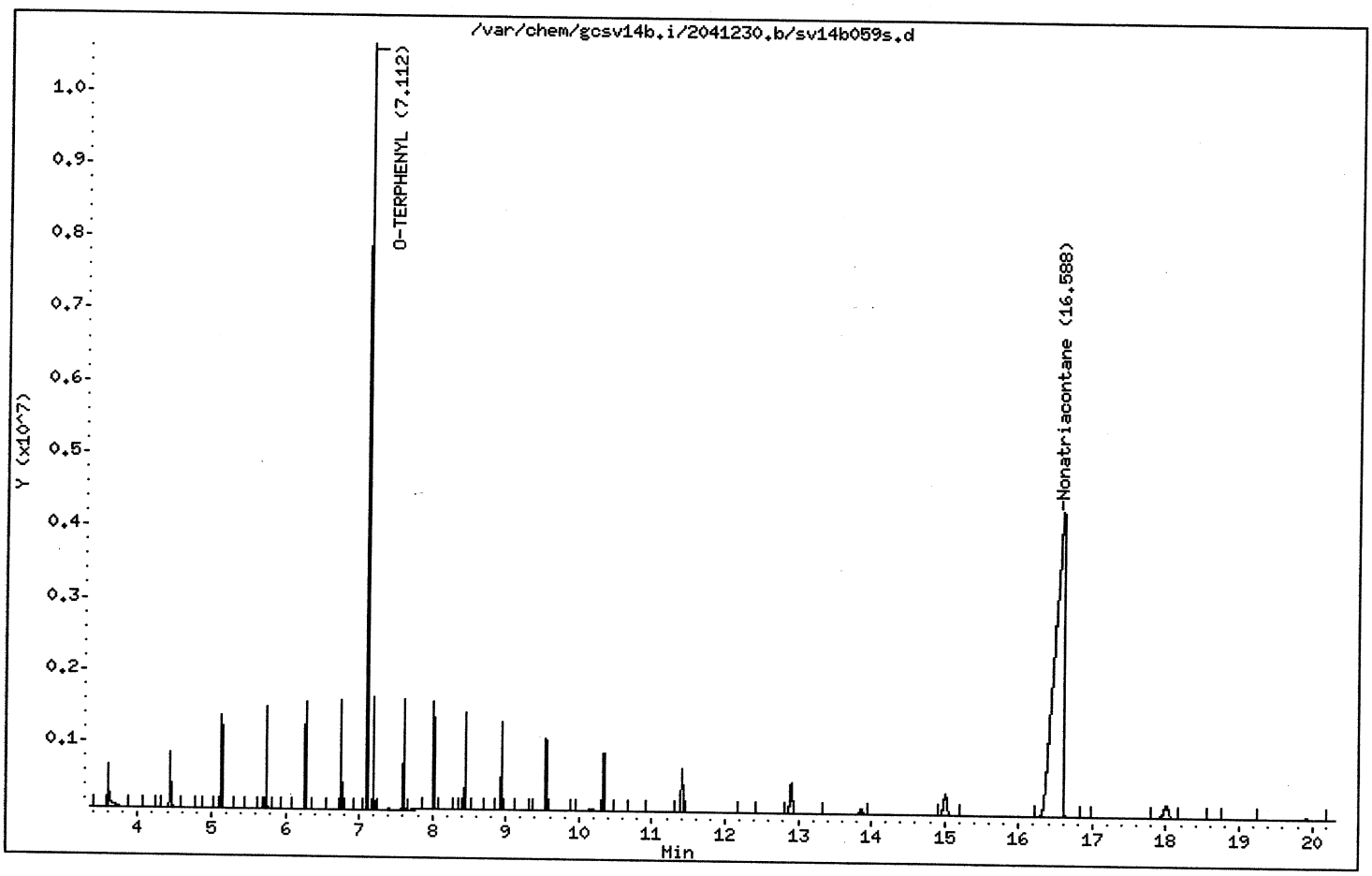
Sample Info: 1400-1 flpro 6

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
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: 285562 Analytical Batch: 285631

Sample ID: MB215091
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215091
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1753
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2041230/SV14B053S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8000	U	5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b053d.d
Lab Smp Id: 215091
Inj Date : 30-DEC-2004 17:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215091-1 blk
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.117	7.118	-0.001	767892613	251.223	20097.8150(M)

dlb 12/31/04

QC Flag Legend

M - Compound response manually integrated.

$$\frac{767892613 - 659542983}{3056621} \cdot \frac{2000}{25} = 2836 \text{ ug/kg} \quad <DL$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b053s.d
Lab Smp Id: 215091
Inj Date : 30-DEC-2004 17:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215091-1 blk
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060s.d
Als bottle: 53
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Wch2msurr.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)	CONCENTRATIONS FINAL (ug/Kg)
$ 7 O-TERPHENYL	7.116	7.118	-0.002	154735867	46.8637	3749.0955
$ 18 Nonatriacontane	16.580	16.632	-0.052	504807116	203.537	16282.9679

659542983

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b053s.d

Date : 30-DEC-2004 17:53

Client ID:

Instrument: gcsv14b.i

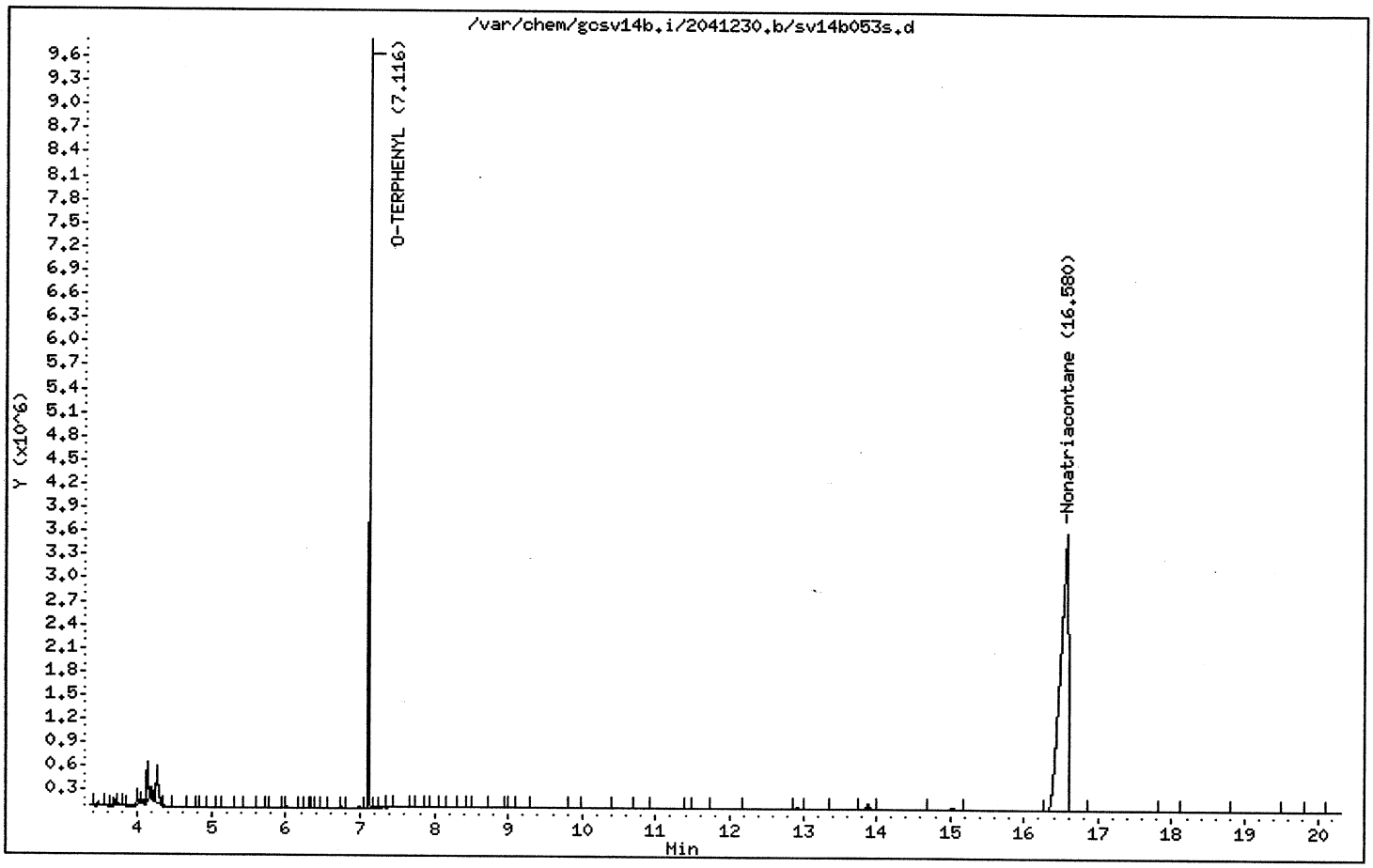
Sample Info: 215091-1 blk

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53

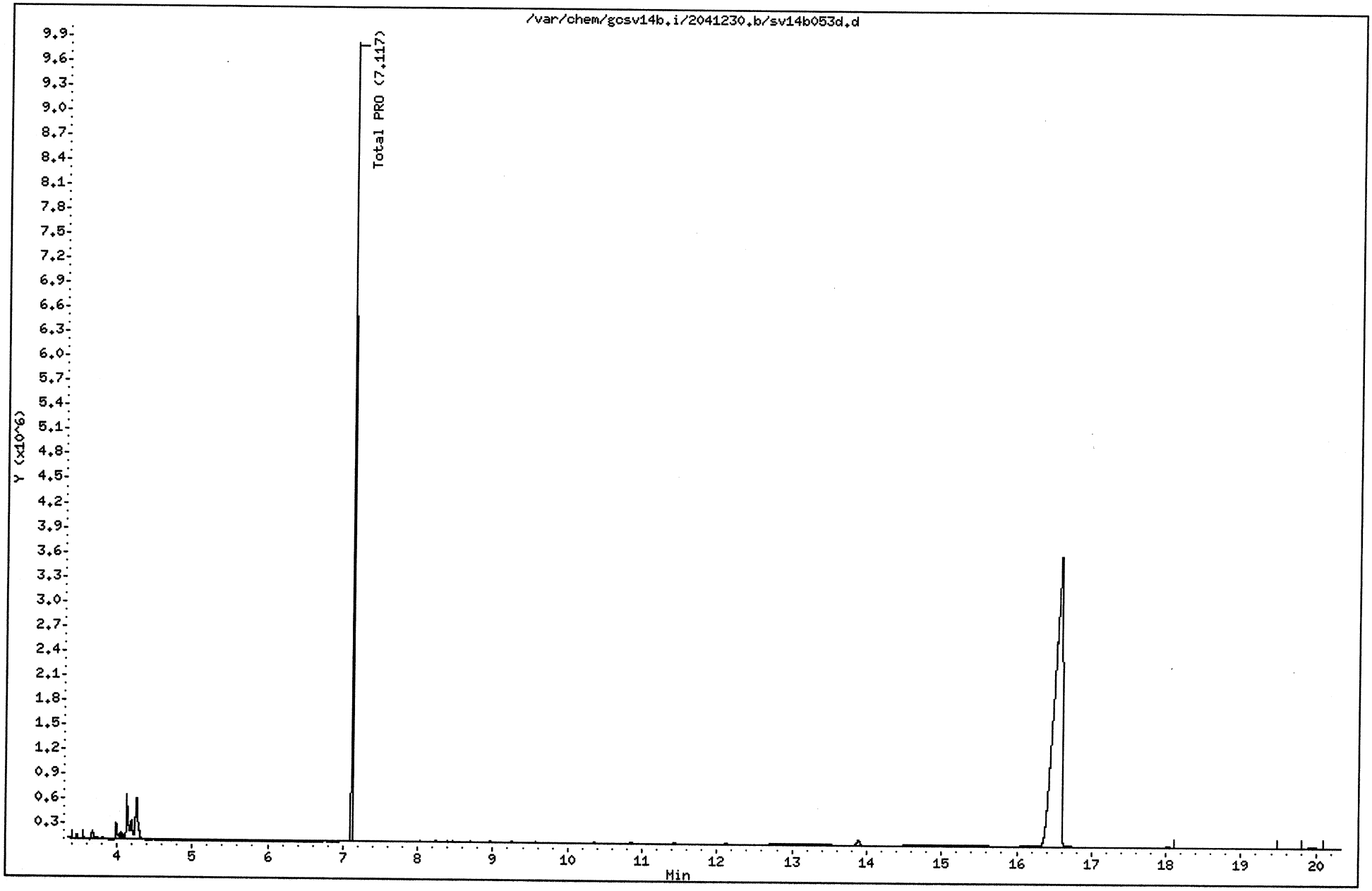


Data File: /var/chem/gcsv14b.i/2041230.b/sv14b053d.d
Date : 30-DEC-2004 17:53
Client ID:
Sample Info: 215091-1 blk
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000673



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
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: 285562 Analytical Batch: 285631

Sample ID: LCS215092
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215092
Date Collected: Time:
Date Received:
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 1824
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2041230/SV14B054S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	61200		5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b054d.d
Lab Smp Id: 215092
Inj Date : 30-DEC-2004 18:24
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 215092-1 lcs
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58
Cal File: sv14b059.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: PRO.sub
Target Version: 3.50

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	7.206	7.118	0.088	2919012756	954.980	76398.4148(M)

QC Flag Legend

M - Compound response manually integrated.

dlb
12/31/04

$$\frac{2919012756 - 578832353}{3056621} \cdot \frac{2000}{25} = 61249$$

$$\%R = \frac{61249}{68000} \cdot 100 = 90\%$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b054s.d
Lab Smp Id: 215092
Inj Date : 30-DEC-2004 18:24
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215092-1 lcs
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060s.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Wch2msurr.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	7.115	7.118	-0.003	155332738	47.0445	3763.5571
$ 18 Nonatriacontane	16.555	16.632	-0.077	423499615	170.754	13660.3277(R)

578832353

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b054s.d

Date : 30-DEC-2004 18:24

Client ID:

Instrument: gcsv14b.i

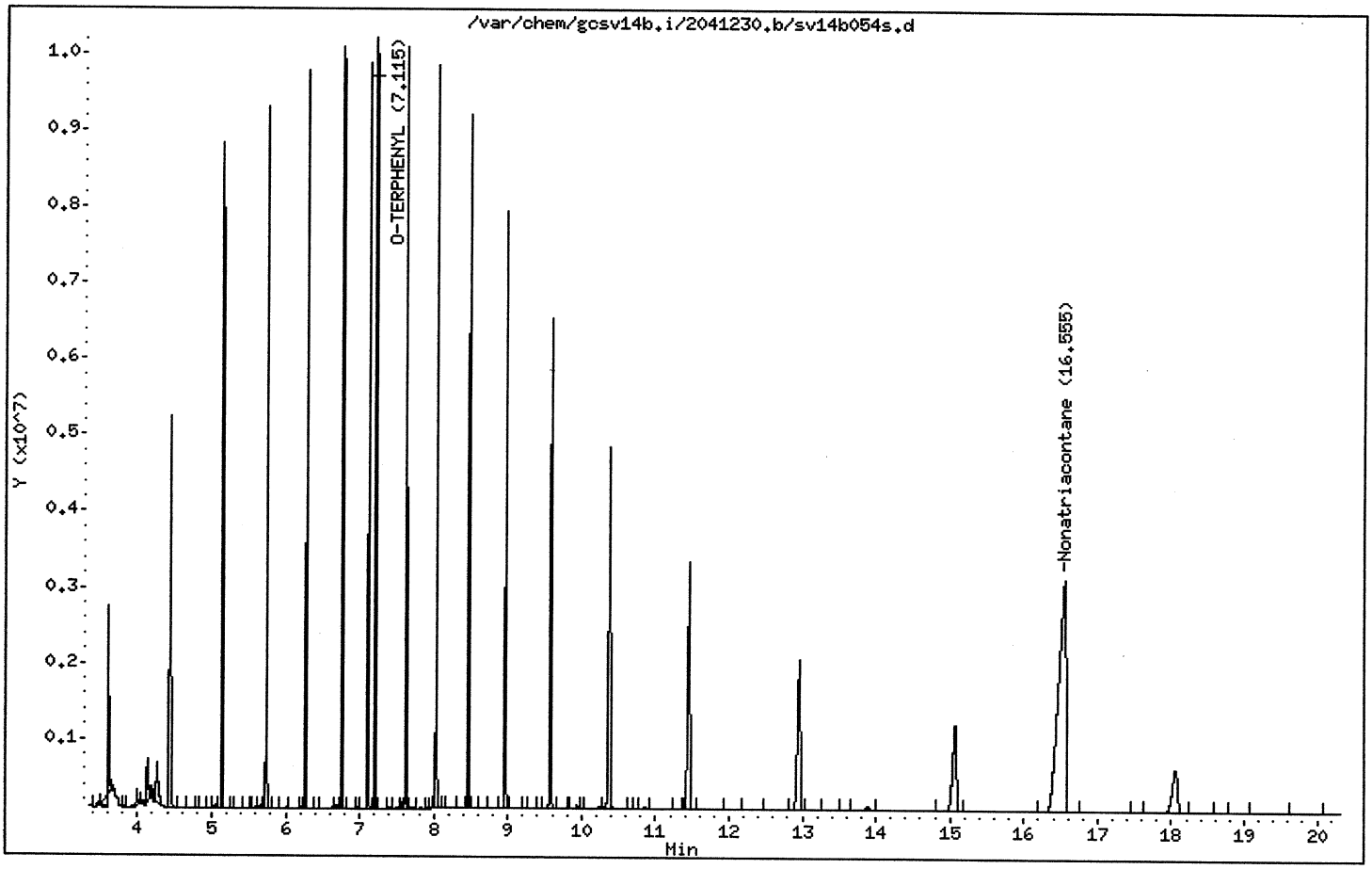
Sample Info: 215092-1 lcs

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53

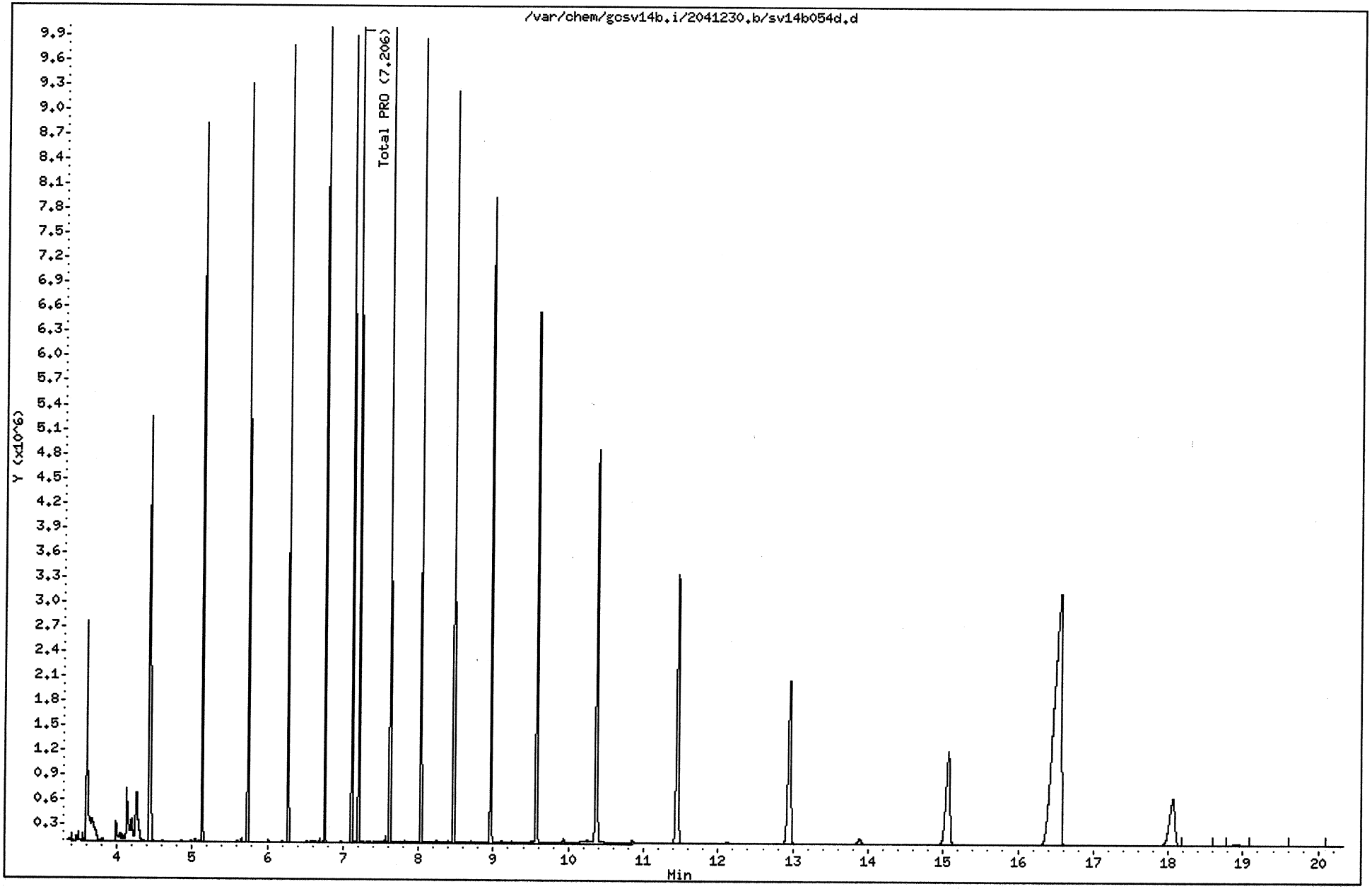


Data File: /var/chem/gcsv14b.i/2041230.b/sv14b054d.d
Date : 30-DEC-2004 18:24
Client ID:
Sample Info: 215092-1 lcs
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000678



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

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: 285562 Analytical Batch: 285631

CONCENTRATION UNITS: ug/kg

Sample ID: LCSD215093

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 215093

Date Collected: Time:

Date Received:

Date Extracted: 12/29/04

Date Analyzed: 12/30/04 Time: 1853

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2041230/SV14B055S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	63600		5000	8000

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b055d.d
Lab Smp Id: 215093
Inj Date : 30-DEC-2004 18:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215093-1 lcsd
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.206	7.118	0.088	2985573086	976.756	78140.4776(M)

dlb
12/31/04

QC Flag Legend

M - Compound response manually integrated.

$$\frac{2985573086 - 555112667}{3056621} \cdot \frac{2000}{25} = 63,612$$

$$\%R = \frac{63612}{68000} \cdot 100 = 93.5\%$$

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b055s.d
Lab Smp Id: 215093
Inj Date : 30-DEC-2004 18:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215093-1 lcsd
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060s.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Wch2msurr.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	7.115	7.118	-0.003	155880614	47.2104	3776.8316
$ 18 Nonatriacontane	16.544	16.632	-0.088	399232053	160.969	12877.5576(R)

555112667

QC Flag Legend

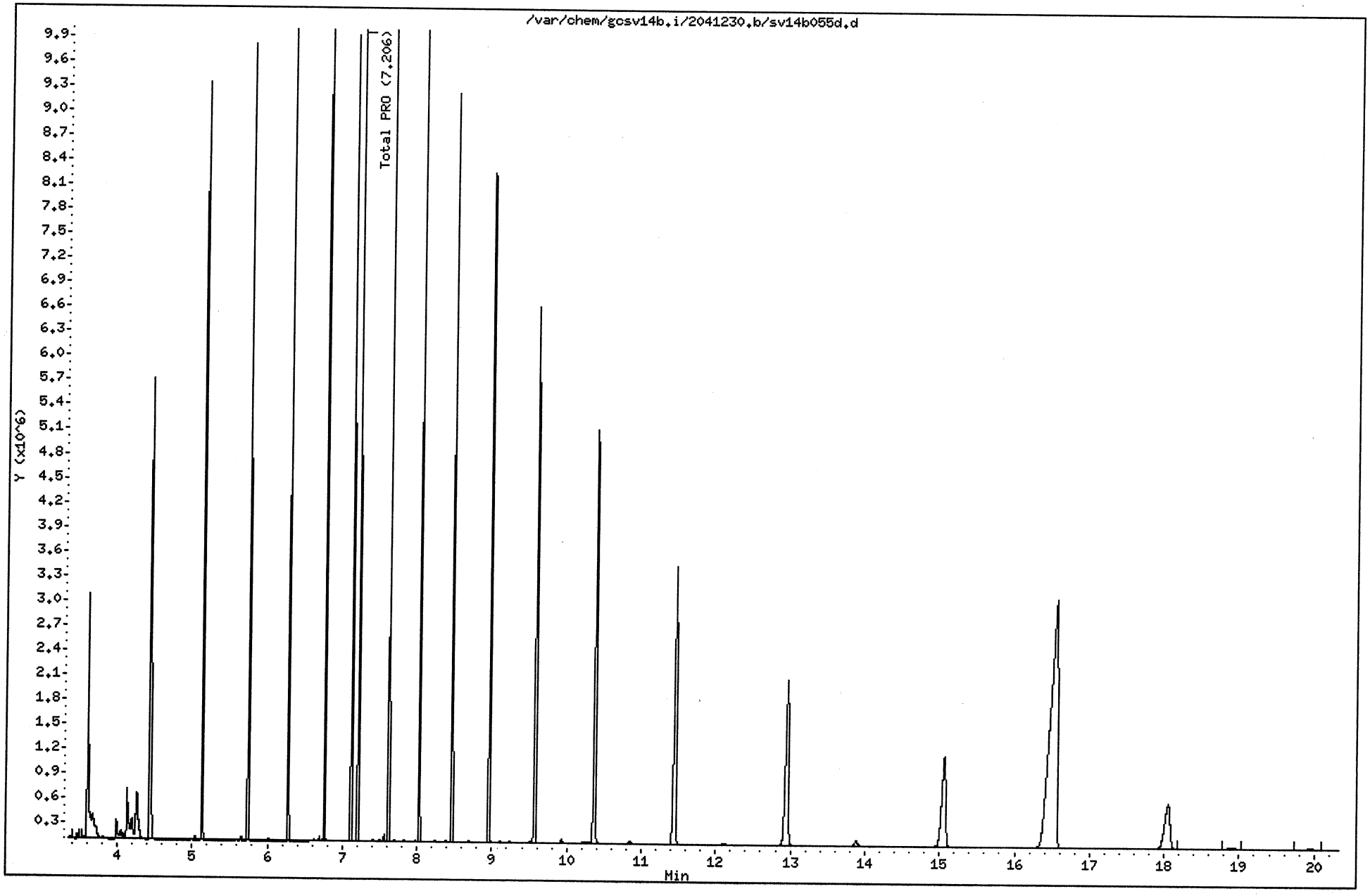
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b055d.d
Date : 30-DEC-2004 18:53
Client ID:
Sample Info: 215093-1 lcsd
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000682



Data File: /var/chem/gcsv14b.i/2041230.b/sv14b055s.d

Date : 30-DEC-2004 18:53

Client ID:

Instrument: gcsv14b.i

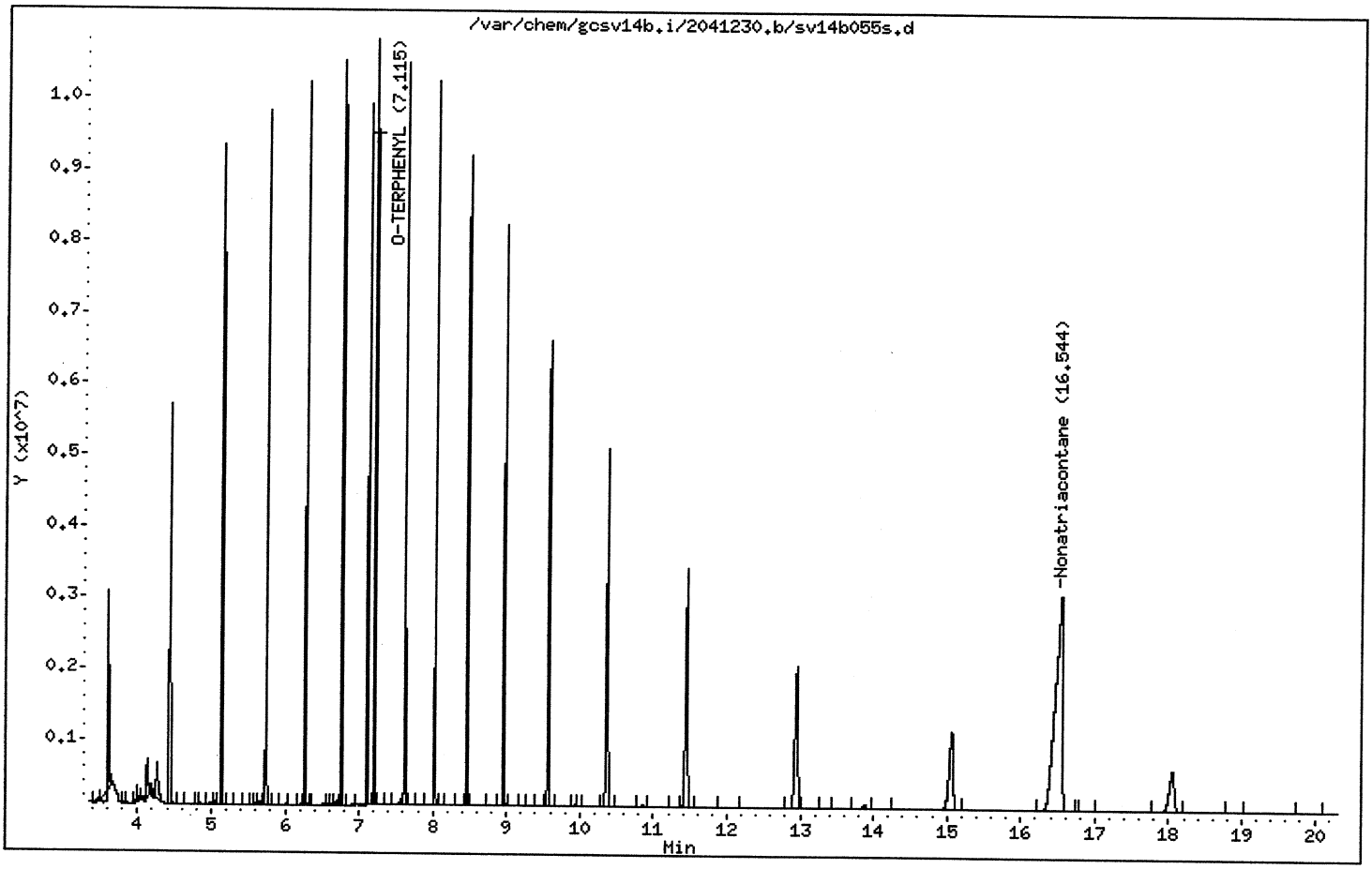
Sample Info: 215093-1 lcsd

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 25 Units: g

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: 285562 Analytical Batch: 285631

CONCENTRATION UNITS: ug/kg

Sample ID: 001-NFF-BFC-S-122...MS

Contract:

SAS No.: SDG No.: 204122902

Lab Sample ID: 215094

Date Collected: 12/28/04 Time: 1610

Date Received: 12/29/04

Date Extracted: 12/29/04

Date Analyzed: 12/30/04 Time: 1953

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

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

Lab File ID: 2041230/SV14B057S

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	74100		5620	8990

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b057d.d
Lab Smp Id: 215094
Inj Date : 30-DEC-2004 19:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215094-1 ms
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58 Cal File: sv14b059.d
Als bottle: 57
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50

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	7.203	7.118	0.085	3314643405	1084.41	86753.1329(M)

QC Flag Legend

M - Compound response manually integrated.

dlb 12/31/04

$$\frac{3314643405 - 796806763}{3056621} \cdot \frac{2000}{25} = 65899$$

97%

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b057s.d
Lab Smp Id: 215094
Inj Date : 30-DEC-2004 19:53
Operator : dlb Inst ID: gcsv14b.i
Smp Info : 215094-1 ms
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29 Cal File: sv14b060s.d
Als bottle: 57
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Wch2msurr.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	7.112	7.118	-0.006	150217746	45.4953	3639.6259
$ 18 Nonatriacontane	16.582	16.632	-0.050	646589017	260.703	20856.2595

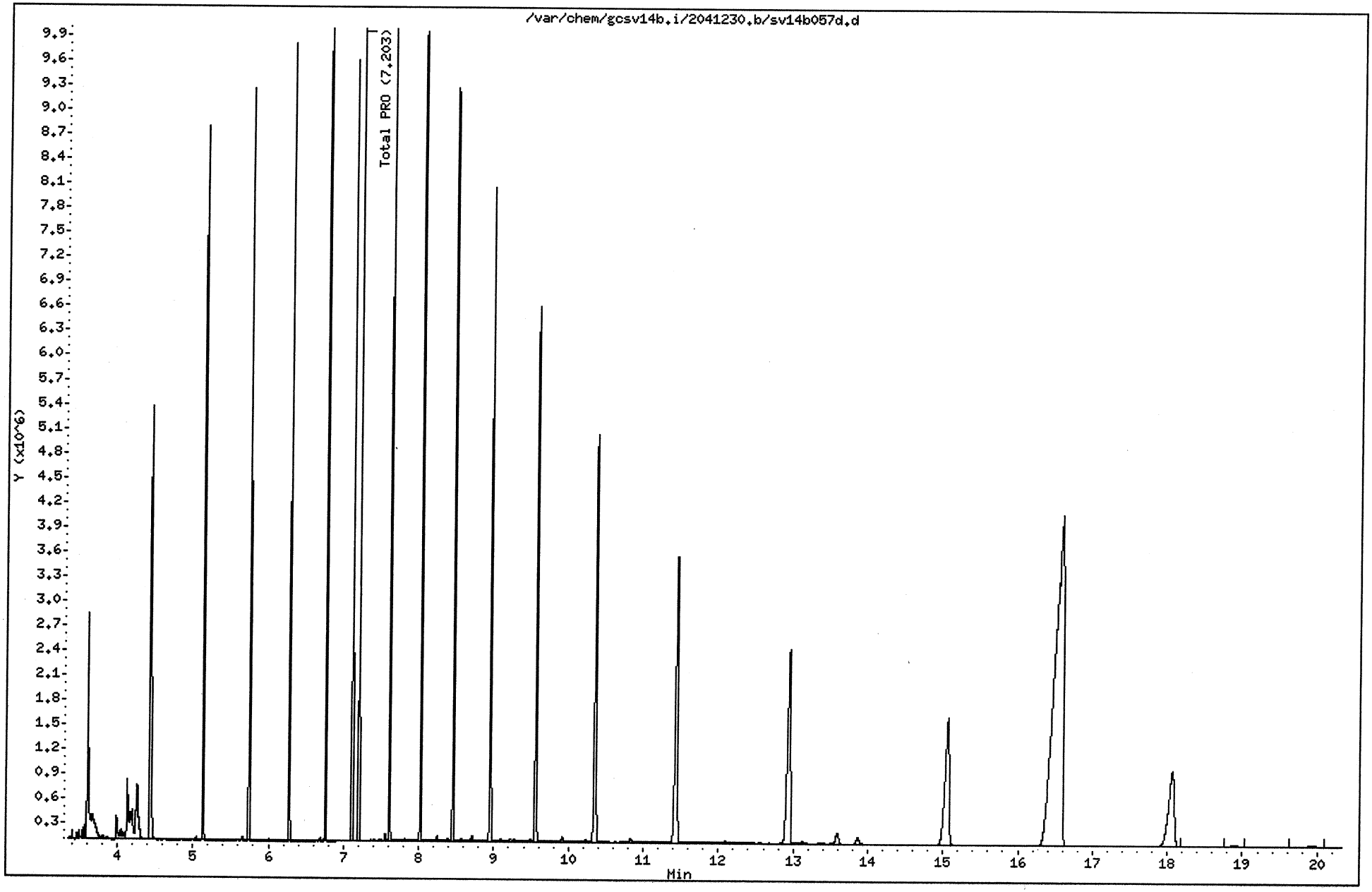
796806763

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b057d.d
Date : 30-DEC-2004 19:53
Client ID:
Sample Info: 215094-1 ms
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000687



Data File: /var/chem/gcsv14b.i/2041230.b/sv14b057s.d

Date : 30-DEC-2004 19:53

Client ID:

Instrument: gcsv14b.i

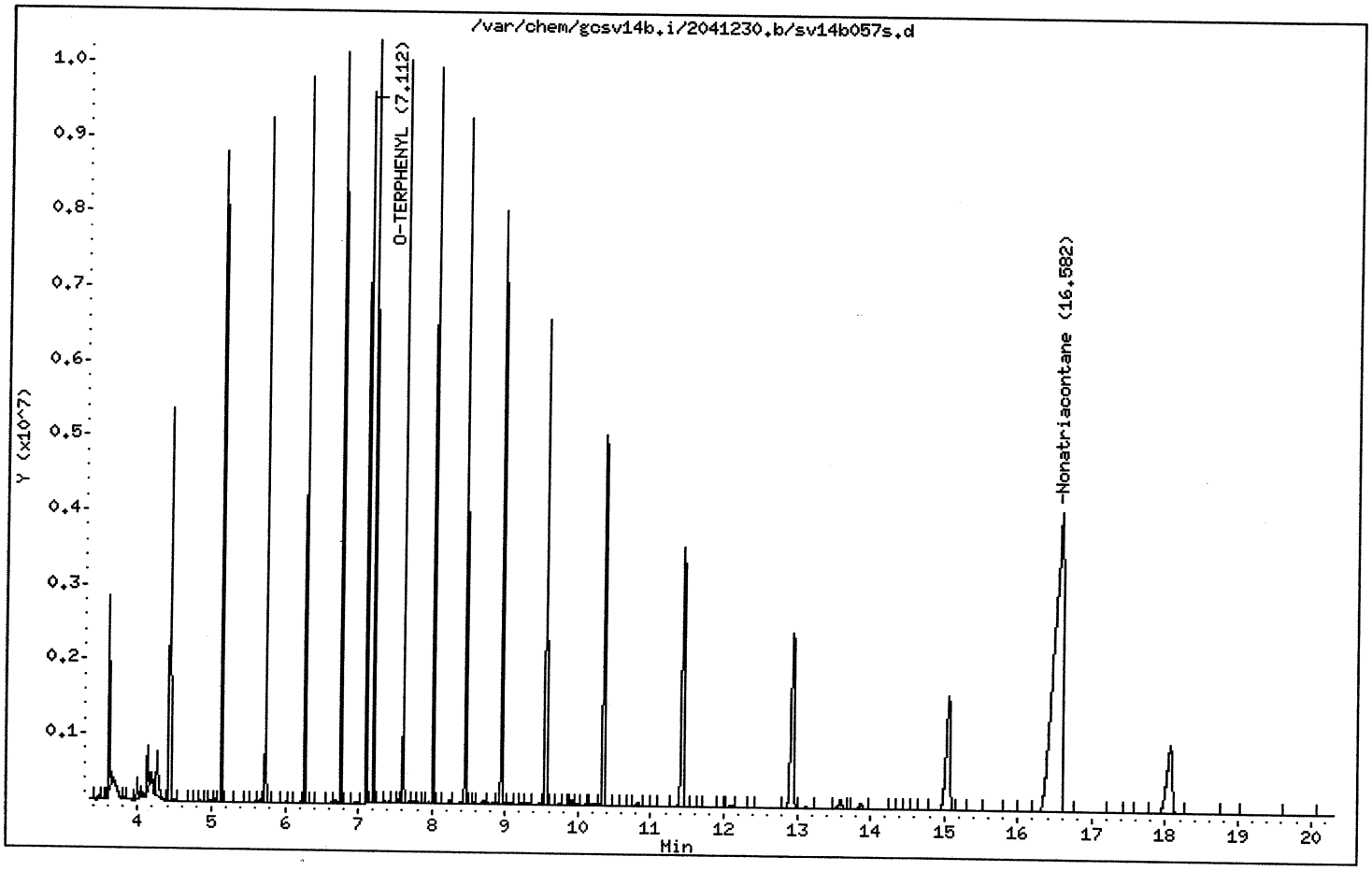
Sample Info: 215094-1 ms

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 25 Units: g
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: 285562 Analytical Batch: 285631

Sample ID: 001-NFF-BFC-S-12...MSD
Contract:
SAS No.: SDG No.: 204122902
Lab Sample ID: 215095
Date Collected: 12/28/04 Time: 1610
Date Received: 12/29/04
Date Extracted: 12/29/04
Date Analyzed: 12/30/04 Time: 2022
Dilution Factor: 1 Analyst: DLB
Prep Method: FLORIDA PRO
Analytical Method: FLORIDA PRO
Sulfur Cleanup: (Y/N) N Instrument ID: GCS14A
Lab File ID: 2041230/SV14B058S

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	75200		5620	8990

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b058d.d
Lab Smp Id: 215095
Inj Date : 30-DEC-2004 20:22
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 215095-1 msd
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flpro.m
Meth Date : 31-Dec-2004 07:28 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 11:58
Cal File: sv14b059.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: PRO.sub
Target Version: 3.50

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	7.203	7.118	0.085	3378317796	1105.25	88419.6630(M)

QC Flag Legend

M - Compound response manually integrated.

dlb
12/31/04

$$\frac{3378317796 - 822909113}{3056621} \cdot \frac{2000}{25} = 66882$$

%R = 98

GCAL, Inc.

Data file : /var/chem/gcsv14b.i/2041230.b/sv14b058s.d
Lab Smp Id: 215095
Inj Date : 30-DEC-2004 20:22
Operator : dlb
Inst ID: gcsv14b.i
Smp Info : 215095-1 msd
Misc Info :
Comment :
Method : /var/chem/gcsv14b.i/2041230.b/flsur.m
Meth Date : 31-Dec-2004 07:30 dlb
Quant Type: ESTD
Cal Date : 12-DEC-2004 12:29
Cal File: sv14b060s.d
Als bottle: 58
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: Wch2msurr.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	7.112	7.118	-0.006	151452414	45.8693	3669.5407
$ 18 Nonatriacontane	16.584	16.632	-0.048	671456699	270.730	21658.3870

82290913

Data File: /var/chem/gcsv14b.i/2041230.b/sv14b058s.d

Date : 30-DEC-2004 20:22

Client ID:

Instrument: gcsv14b.i

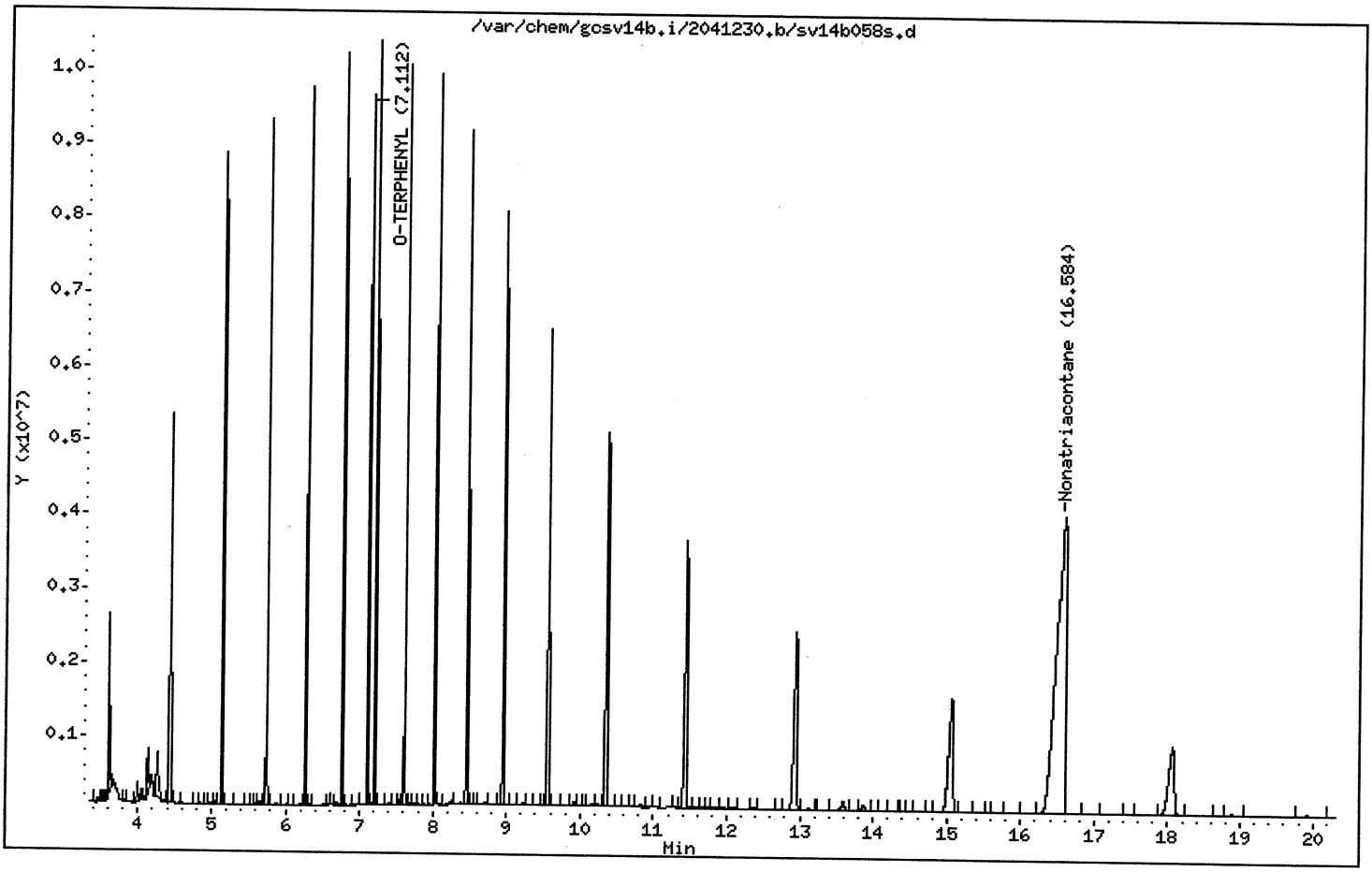
Sample Info: 215095-1 msd

Volume Injected (uL): 1.0

Operator: dlb

Column phase: DB-1

Column diameter: 0.53

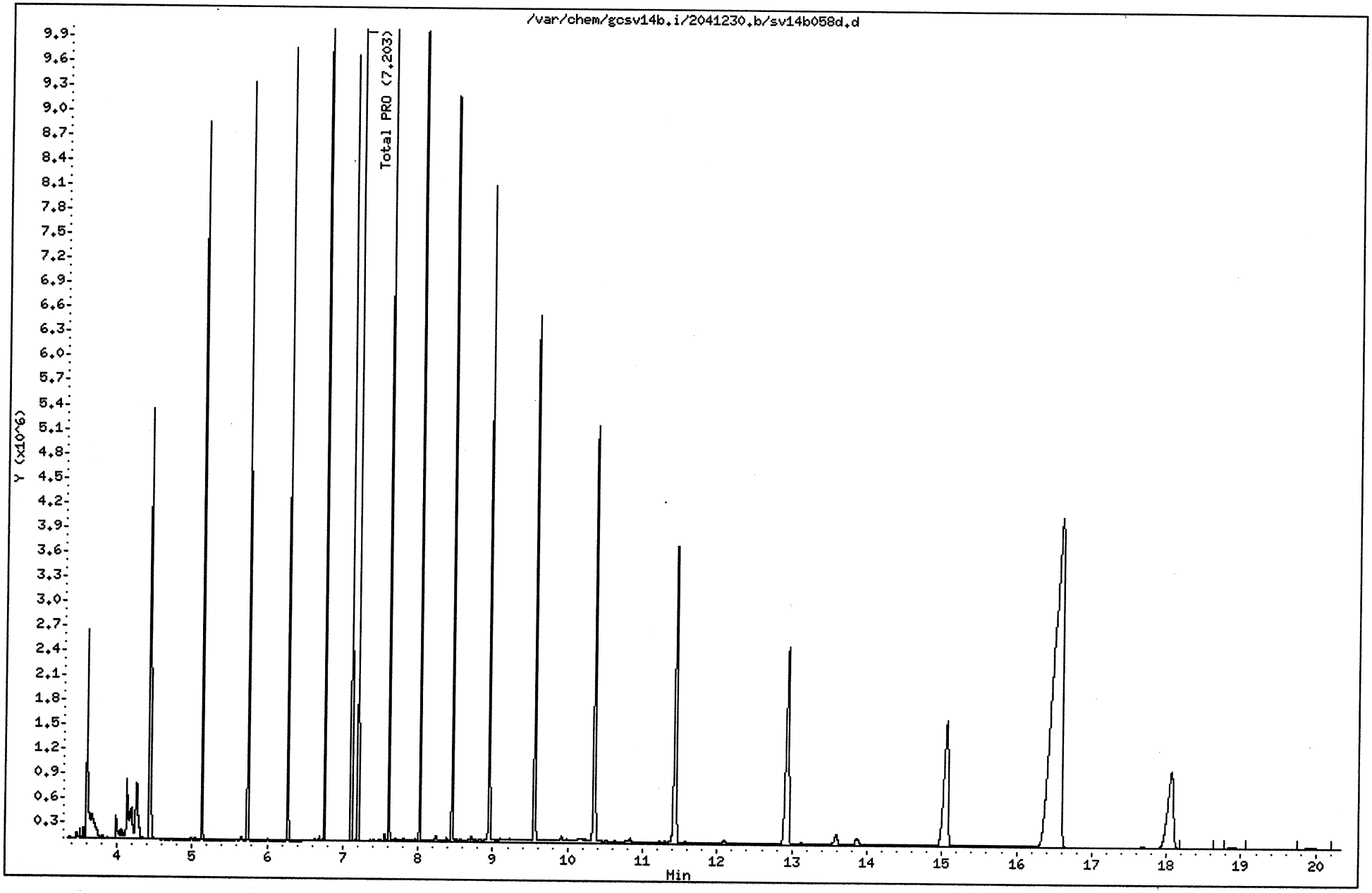


Data File: /var/chem/gcsv14b.i/2041230.b/sv14b058d.d
Date : 30-DEC-2004 20:22
Client ID:
Sample Info: 215095-1 msd
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv14b.i

Operator: dlb
Column diameter: 0.53

000693



FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	12-29-04 1330	BATCH NO:	285562
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 285562 [EXTO/6830]	215091	30.0	2.0			
2	QC ACCOUNT	LCS for HBN 285562 [EXTO/6830]	215092	30.0	2.0			
3	QC ACCOUNT	LCSD for HBN 285562 [EXTO/6830	215093	30.0	2.0			SEPARATORY FUNNEL/3510
4	4380	001-NFF-BFC-S-1228-04	20412290201	30.0	2.0			
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	215094	30.0	2.0			
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	215095	30.0	2.0			
7								SONICATOR/3550
8								
9								
10								
11								SILICA GEL CLEANUP
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No:
24								042721
25								
26								
27								Sodium Sulfate Lot No:
28								040859

12-29-04 JPA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-11-6	FLPRO SPIKE ID	9-11-5			TECHNICIAN	DATE
VOLUME	1.0 mL	VOLUME	200 ul			Sam Barber	12-29-04
CONCENTRATION	100/600 ug/ml	CONCENTRATION	500 ug/ml				
ACID						SUPERVISOR	DATE
WITNESS	JPA					John Bailey	01/03/05

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
FLPRO 6	63-23-1	C-443-10 2000 ug/mL DRH FLSS 3X 3000 ug/mL 63-17-4 2000 ug/mL	NSI accust. in house	C-443-10 1/05 B3050147 6/07 in house 4/05	3 uL 100 uL 25 uL	1 mL	6 ppm 300 ppm 50 ppm	DCM 036929	dlb	12-12-04	01/05
FLPRO 50	63-23-2				25 uL 100 uL 25 uL	1 mL	50 ppm 300 ppm 50 ppm				
FIPRO 150	63-23-3				75 uL 100 uL 25 uL	1 mL	150 PPM 300 PPM 50 PPM				
FIPRO 250	63-23-4				125 uL 100 uL 25 uL	1 mL	250 PPM 300 PPM 50 PPM				
FIPRO 350	63-23-5				175 uL 100 uL 25 uL	1 mL	350 PPM 300 PPM 50 PPM				
FIPRO 500	63-23-6				250 uL 100 uL 25 uL	1 mL	500 PPM 300 PPM 50 PPM				
FLPRO ICV	63-23-7	DRHF TRPH 500 ug/mL	accst.	B 3030135 11-11-06	100 uL	1 mL	50 ppm				05-12-05
OIL II	63-23-8	Waste Water Oil 50,000 ug/mL O-Lu PM 10,000 ug/mL	NSI	~~LST-185-02~~ exp 3/06 134114-02-06 exp 5/07	1 mL 100 uL	10 mL	5000/100 ppm	DCM 040131	SJT	12-15-04	05-14-05
Hex mix Spike	63-23-9	Q 3037 1000 ug/mL Custom mix 100 ug/mL	NSI	052502-03 5/05	1.0 mL	10 mL	10,000 ppb	Hexane 043187	TLS	12-17-04	05-17-05
B-ICV	63-23-10	Pest STD mix B 5/10 ppm	Supelco	LB09912 Mar 2006	600 uL	50 mL	~~5/10~~ dlb 12/11/04 60/120 ppb	hexane 043187	dlb	12-18-04	06-17-05

000695

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
Ind A ICV	63-25-1	Pest St. mix A 5/10 ppm	Supelco	Lot -LB1672 12/2006	300ul	25mL	60/120 ppb	Hexane 043187	TLS	12-31-04	6-30-05
FLPRO 6 (ccv)	63-25-2	C-443-10 2000 ug/mL DRH-PLRS53X - 3000 ug/mL 63-17-4 2000 ug/mL	accust NSI in house	C-443-10 1/05 B-3050147 6/07 in house 4/05	3 uL 100 uL 25 uL	1mL	6 ppm 300 ppm 50 ppm	DCM 040131	dlb	12/30/04	1/05 dlb
FLPRO 50 (ccv)	63-25-3	↓	↓	↓ ↓	25 uL 100 uL 25 uL	1mL	50 ppm 300 ppm 50 ppm	DCM 040131	dlb	12/30/04	1/05 dlb
IND A III	63-25-4	CLP-216 5/10 ug/mL	Ultra	T12572 exp 12/31/06	600ul	50mL	60/120 ppb	Hexane 043187	SST	1/3/05	7/2/05
IND B III	63-25-5	CLP-226B 5/10 ug/ml	Ultra	U-0907A exp 7/31/06	600ul	50mL	60/120 ppb	Hexane 043187	SST	1/3/05	7/2/05
TPHD V	63-25-6	Diesel Fuel NO.2 50,000 ug/mL p-Terphenyl 1/3 ~~1/3~~ 10,000 ug/ml	NSI	LST-145-09 exp 3/6 1341H-02-06 exp 5/7	400ul / 100ul	~~50~~ 10 ~~mL~~ 1/3/05 SST 1/4/05	2000 / 100 ppm	DCM 040131	SST	1/4/05	7/3/05
TPHD ICV	63-25-7	Composite #2 Diesel Fuel Std 50,000 ug/mL	Ultra	P-316B exp 9/07	100ul	10mL	500 ppm	DCM 040131	SST	1/4/05	7/3/05
CLP-Inst blank	63-25-8	CLP Pest Surr C-194-05 200 ug/mL	NSI	C-194-05 Exp. 3/05	5uL	50mL	20 ppb	hexane 043187	dlb	1/5/05	3/05
APP9 OP w/Surr	63-25-9	C-417-10 APP9 2000 ug/ml TPP 500 ug/ml exp 5/06 1702-02-02 exp 11/07	NSI	C-417-10 exp 5/06 1702-02-02 exp 12/05	100ul 400ul	50mL	4000 ppb	hexane 043187	SST	1/7/05	7/6/05
APP9-OP ICV	63-25-10	APP9 2000 ug/ml	NSI	C-417-09A exp 3/05	100ul	50mL	4000 ppb	hexane 043187	SST	1/7/05	2/28/05

000696

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 12/14/2004
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2041212.b/flpro.m
Batch: /var/chem/gcsv14b.i/2041212.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
dcm		sv14b051d.d	12-DEC-2004 07:18	1.000	dlb	
dcm		sv14b051s.d	12-DEC-2004 07:18	1.000	dlb	
DCM		sv14b052d.d	12-DEC-2004 07:47	1.000	dlb	
DCM		sv14b052s.d	12-DEC-2004 07:47	1.000	dlb	
1201		sv14b053d.d	12-DEC-2004 08:52	1.000	dlb	
1201		sv14b053s.d	12-DEC-2004 08:52	1.000	dlb	
1202		sv14b054d.d	12-DEC-2004 09:21	1.000	dlb	
1202		sv14b054s.d	12-DEC-2004 09:21	1.000	dlb	
1203		sv14b055d.d	12-DEC-2004 09:51	1.000	dlb	
1203		sv14b055s.d	12-DEC-2004 09:51	1.000	dlb	
1204		sv14b056d.d	12-DEC-2004 10:21	1.000	dlb	
1204		sv14b056s.d	12-DEC-2004 10:21	1.000	dlb	
1205		sv14b057d.d	12-DEC-2004 10:51	1.000	dlb	
1205		sv14b057s.d	12-DEC-2004 10:51	1.000	dlb	
1206		sv14b058d.d	12-DEC-2004 11:22	1.000	dlb	
1206		sv14b058s.d	12-DEC-2004 11:22	1.000	dlb	
1201		sv14b059d.d	12-DEC-2004 11:58	1.000	dlb	
1201		sv14b059s.d	12-DEC-2004 11:58	1.000	dlb	
1205		sv14b060d.d	12-DEC-2004 12:29	1.000	dlb	
1205		sv14b060s.d	12-DEC-2004 12:29	1.000	dlb	
ICV		sv14b061d.d	12-DEC-2004 13:20	1.000	dlb	
ICV		sv14b061s.d	12-DEC-2004 13:20	1.000	dlb	
211444		sv14b062d.d	12-DEC-2004 13:51	1.000	dlb	
211444		sv14b062s.d	12-DEC-2004 13:51	1.000	dlb	
211445		sv14b063d.d	12-DEC-2004 14:22	1.000	dlb	
211445		sv14b063s.d	12-DEC-2004 14:22	1.000	dlb	
211446		sv14b064d.d	12-DEC-2004 14:52	1.000	dlb	
211446		sv14b064s.d	12-DEC-2004 14:52	1.000	dlb	
20412091220		sv14b065d.d	12-DEC-2004 15:21	1.000	dlb	
20412091220		sv14b065s.d	12-DEC-2004 15:21	1.000	dlb	
20412091221		sv14b066d.d	12-DEC-2004 15:51	1.000	dlb	
20412091221		sv14b066s.d	12-DEC-2004 15:51	1.000	dlb	
1400		sv14b067d.d	12-DEC-2004 16:20	1.000	dlb	
1400		sv14b067s.d	12-DEC-2004 16:20	1.000	dlb	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 12/31/2004
Instrument: gcsv14b.i
Method File: /var/chem/gcsv14b.i/2041230.b/flpro.m
Batch: /var/chem/gcsv14b.i/2041230.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
dcm		sv14b051d.d	30-DEC-2004 16:54	1.000	dlb	
1400		sv14b052d.d	30-DEC-2004 17:24	1.000	dlb	
1400		sv14b052s.d	30-DEC-2004 17:24	1.000	dlb	
215091		sv14b053d.d	30-DEC-2004 17:53	1.000	dlb	
215091		sv14b053s.d	30-DEC-2004 17:53	1.000	dlb	
215092		sv14b054d.d	30-DEC-2004 18:24	1.000	dlb	
215092		sv14b054s.d	30-DEC-2004 18:24	1.000	dlb	
215093		sv14b055d.d	30-DEC-2004 18:53	1.000	dlb	
215093		sv14b055s.d	30-DEC-2004 18:53	1.000	dlb	
20412290201		sv14b056d.d	30-DEC-2004 19:23	1.000	dlb	
20412290201		sv14b056s.d	30-DEC-2004 19:23	1.000	dlb	
215094		sv14b057d.d	30-DEC-2004 19:53	1.000	dlb	
215094		sv14b057s.d	30-DEC-2004 19:53	1.000	dlb	
215095		sv14b058d.d	30-DEC-2004 20:22	1.000	dlb	
215095		sv14b058s.d	30-DEC-2004 20:22	1.000	dlb	
1400		sv14b059d.d	30-DEC-2004 20:52	1.000	dlb	
1400		sv14b059s.d	30-DEC-2004 20:52	1.000	dlb	

REVISED 6-1-95 Supervisor Review: QA Review:

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

SOW No.:

EPA Sample No	*Lab Sample ID*
001-NFF-BFC-S-1228-04	20412290201

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: 001-NFF-BFC-S-1228-04
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 204122902
Level: (low / med)
% Solids: 88.95
Lab Sample ID: 20412290201
Date Received: 12/29/04
Time: 0855
Date Collected: 12/28/04
Time: 1610

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	2870	mg/kg		2.05	8.99	SW-846 6010B	P
Antimony	2.70	mg/kg	U	0.15	2.700	SW-846 6010B	P
Arsenic	1.80	mg/kg	U	0.29	1.800	SW-846 6010B	P
Barium	2.27	mg/kg		0.020	0.45	SW-846 6010B	P
Beryllium	0.041	mg/kg	B	0.0022	0.22	SW-846 6010B	P
Cadmium	0.019	mg/kg	B	0.0045	0.22	SW-846 6010B	P
Calcium	678	mg/kg		1.02	4.500	SW-846 6010B	P
Chromium	3.00	mg/kg		0.020	0.45	SW-846 6010B	P
Cobalt	0.14	mg/kg	B	0.022	0.45	SW-846 6010B	P
Copper	0.58	mg/kg		0.15	0.45	SW-846 6010B	P
Iron	314	mg/kg		0.65	4.500	SW-846 6010B	P
Lead	3.96	mg/kg		0.083	0.67	SW-846 6010B	P
Magnesium	34.0	mg/kg		2.22	4.500	SW-846 6010B	P
Manganese	1.40	mg/kg		0.037	0.67	SW-846 6010B	P
Mercury	0.0071	mg/kg	B	0.0022	0.011	SW-846 7471A	AV
Nickel	0.37	mg/kg	B	0.019	1.800	SW-846 6010B	P
Potassium	24.2	mg/kg		1.75	8.99	SW-846 6010B	P
Selenium	0.76	mg/kg	B	0.11	1.800	SW-846 6010B	P
Silver	0.45	mg/kg	U	0.024	0.45	SW-846 6010B	P
Sodium	19.9	mg/kg	B	2.94	45.00	SW-846 6010B	P
Thallium	0.12	mg/kg	B	0.098	0.90	SW-846 6010B	P
Vanadium	3.30	mg/kg		0.098	0.90	SW-846 6010B	P
Zinc	2.58	mg/kg		0.33	0.90	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122902
Calibration Source: 125-33-1 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 12/30/04 Time: 1430

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	10.3	103	mg/L	SW-846 6010B	P
Antimony	1.00	0.990	99	mg/L	SW-846 6010B	P
Arsenic	1.00	1.00	100	mg/L	SW-846 6010B	P
Barium	1.00	1.02	102	mg/L	SW-846 6010B	P
Beryllium	1.00	1.00	100	mg/L	SW-846 6010B	P
Boron	5.00	5.11	102	mg/L	SW-846 6010B	P
Cadmium	1.00	1.00	100	mg/L	SW-846 6010B	P
Calcium	10.0	10.2	102	mg/L	SW-846 6010B	P
Chromium	1.00	1.01	101	mg/L	SW-846 6010B	P
Cobalt	1.00	0.990	99	mg/L	SW-846 6010B	P
Copper	1.00	1.01	101	mg/L	SW-846 6010B	P
Iron	10.0	10.1	101	mg/L	SW-846 6010B	P
Lead	1.00	1.01	101	mg/L	SW-846 6010B	P
Lithium	1.00	0.970	97	mg/L	SW-846 6010B	P
Magnesium	10.0	10.7	107	mg/L	SW-846 6010B	P
Manganese	1.00	1.00	100	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.990	99	mg/L	SW-846 6010B	P
Nickel	1.00	1.00	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.67	97	mg/L	SW-846 6010B	P
Selenium	1.00	0.980	98	mg/L	SW-846 6010B	P
Silver	1.00	1.02	102	mg/L	SW-846 6010B	P
Sodium	10.0	9.77	98	mg/L	SW-846 6010B	P
Strontium	1.00	0.990	99	mg/L	SW-846 6010B	P
Thallium	1.00	1.01	101	mg/L	SW-846 6010B	P
Tin	1.00	1.02	102	mg/L	SW-846 6010B	P
Titanium	1.00	1.00	100	mg/L	SW-846 6010B	P
Vanadium	1.00	1.00	100	mg/L	SW-846 6010B	P
Zinc	1.00	0.980	98	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.: 204122902

Calibration Source: 125-34-3 INORGANIC VENTURES

Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/30/04 Time: 1444

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.250	123	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0600	100	mg/L	SW-846 6010B	P
Arsenic	0.0400	0.0420	104	mg/L	SW-846 6010B	P
Barium	0.0100	0.00990	99	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00480	96	mg/L	SW-846 6010B	P
Boron	0.500	0.540	108	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00490	97	mg/L	SW-846 6010B	P
Calcium	0.100	0.110	106	mg/L	SW-846 6010B	P
Chromium	0.0100	0.00960	96	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.00970	97	mg/L	SW-846 6010B	P
Copper	0.0100	0.0100	103	mg/L	SW-846 6010B	P
Iron	0.100	0.100	102	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	104	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0530	107	mg/L	SW-846 6010B	P
Magnesium	0.100	0.100	104	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0150	103	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0500	101	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0410	103	mg/L	SW-846 6010B	P
Potassium	0.500	0.460	93	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0420	106	mg/L	SW-846 6010B	P
Silver	0.0100	0.00990	99	mg/L	SW-846 6010B	P
Sodium	1.00	0.960	96	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0490	99	mg/L	SW-846 6010B	P
Thallium	0.0100	0.0150	150	mg/L	SW-846 6010B	P
Tin	0.100	0.100	104	mg/L	SW-846 6010B	P
Titanium	0.100	0.0990	99	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0190	97	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.: 204122902

Calibration Source: 125-34-1 INORGANIC VENTURES

Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 12/30/04 Time: 1504

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.31	106	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	101	mg/L	SW-846 6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.51	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	101	mg/L	SW-846 6010B	P
Calcium	5.00	5.20	104	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.24	105	mg/L	SW-846 6010B	P
Lead	0.500	0.520	103	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	99	mg/L	SW-846 6010B	P
Magnesium	5.00	5.42	108	mg/L	SW-846 6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.510	101	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 6010B	P
Potassium	10.0	9.73	97	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	100	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	102	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	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.: 204122902
Calibration Source: 125-34-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 12/30/04 Time: 1621

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.30	106	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	99	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.16	103	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.510	101	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.20	104	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.490	99	mg/L	SW-846 6010B	P
Magnesium	5.00	5.31	106	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.50	95	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	97	mg/L	SW-846 6010B	P
Silver	0.500	0.490	99	mg/L	SW-846 6010B	P
Sodium	20.0	19.9	99	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	102	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.490	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 204122902
Calibration Source: 125-34-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 12/30/04 Time: 1726

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.15	103	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	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.37	95	mg/L	SW-846 6010B	P
Cadmium	0.500	0.470	95	mg/L	SW-846 6010B	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.480	96	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.480	97	mg/L	SW-846 6010B	P
Iron	5.00	5.09	102	mg/L	SW-846 6010B	P
Lead	0.500	0.490	98	mg/L	SW-846 6010B	P
Lithium	0.500	0.470	95	mg/L	SW-846 6010B	P
Magnesium	5.00	5.16	103	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	95	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Potassium	10.0	9.54	95	mg/L	SW-846 6010B	P
Selenium	0.500	0.470	93	mg/L	SW-846 6010B	P
Silver	0.500	0.480	96	mg/L	SW-846 6010B	P
Sodium	20.0	18.8	94	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	95	mg/L	SW-846 6010B	P
Thallium	0.500	0.490	98	mg/L	SW-846 6010B	P
Tin	0.500	0.480	95	mg/L	SW-846 6010B	P
Vanadium	0.500	0.480	96	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.: 204122902

Calibration Source: 125-31-2 CPI

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 12/29/04 Time: 1627

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00508	102	mg/L	SW-846 7471A	AV

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.: 204122902

Calibration Source: 125-31-1 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 12/29/04 Time: 1630

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00491	98	mg/L	SW-846 7471A	AV

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.: 204122902

Calibration Source: 125-31-1 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 12/29/04 Time: 1651

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00476	95	mg/L	SW-846 7471A	AV

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.: 204122902

Calibration Source: 125-31-1 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 12/29/04 Time: 1705

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00480	96	mg/L	SW-846 7471A	AV

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.: 204122902

Lab Sample ID: ICB

ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 285618 [ICP/2721]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/30/04 Time: 1437

INITIAL CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.00021	B	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.00089	B	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0080	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122902
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 285618 [ICP/2721]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 12/30/04 Time: 1510

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.00013	B	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0034	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: 214990

ICAL ID: 2

Lab Sample DESC: MB214990

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP5

Date Analyzed: 12/30/04 Time: 1516

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	8.00	U	mg/kg	1.83	8.00	SW-846 6010B	P
Antimony	2.40	U	mg/kg	0.14	2.40	SW-846 6010B	P
Arsenic	1.60	U	mg/kg	0.26	1.60	SW-846 6010B	P
Barium	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Beryllium	0.20	U	mg/kg	0.0020	0.20	SW-846 6010B	P
Cadmium	0.20	U	mg/kg	0.0040	0.20	SW-846 6010B	P
Calcium	4.00	U	mg/kg	0.91	4.00	SW-846 6010B	P
Chromium	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Cobalt	0.40	U	mg/kg	0.020	0.40	SW-846 6010B	P
Copper	0.40	U	mg/kg	0.13	0.40	SW-846 6010B	P
Iron	4.00	U	mg/kg	0.58	4.00	SW-846 6010B	P
Lead	0.60	U	mg/kg	0.074	0.60	SW-846 6010B	P
Magnesium	4.00	U	mg/kg	1.97	4.00	SW-846 6010B	P
Manganese	0.60	U	mg/kg	0.033	0.60	SW-846 6010B	P
Nickel	0.031	B	mg/kg	0.017	1.60	SW-846 6010B	P
Potassium	2.42	B	mg/kg	1.55	8.00	SW-846 6010B	P
Selenium	1.60	U	mg/kg	0.099	1.60	SW-846 6010B	P
Silver	0.40	U	mg/kg	0.021	0.40	SW-846 6010B	P
Sodium	40.0	U	mg/kg	2.62	40.0	SW-846 6010B	P
Thallium	0.096	B	mg/kg	0.087	0.80	SW-846 6010B	P
Vanadium	0.80	U	mg/kg	0.087	0.80	SW-846 6010B	P
Zinc	0.80	U	mg/kg	0.30	0.80	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204122902
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 285618 [ICP/2721]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 12/30/04 Time: 1628

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.027	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.0093	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.071	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.0070	B	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0056	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 285618 [ICP/2721]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 12/30/04 Time: 1733

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.050	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.00013	B	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.00015	B	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.025	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.00056	B	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.073	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.00078	B	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0060	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.0015	B	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 285566 [HG/2192]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 12/29/04 Time: 1628

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 285566 [HG/2192]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 12/29/04 Time: 1632

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 285566 [HG/2192]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 12/29/04 Time: 1653

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: 214995

ICAL ID: 1

Lab Sample DESC: MB214995

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: FIMS1

Date Analyzed: 12/29/04 Time: 1654

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.010	U	mg/kg	0.0020	0.010	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204122902

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 285566 [HG/2192]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 12/29/04 Time: 1707

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902

ICP ID Number: ICP5 ICS Source: 125-40-5 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	198	211	106			
Antimony	0	1.00		1.02	102			
Arsenic	0	1.00		1.01	101			
Barium	0	0.50		0.51	102			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		1.11	111			
Cadmium	0	1.00		1.01	101			
Calcium	200	200	195	205	102			
Chromium	0	0.50		0.50	100			
Cobalt	0	0.50		0.49	98			
Copper	0	0.50		0.51	102			
Iron	80.0	80.0	76.3	81.2	102			
Lead	0	1.00		1.04	104			
Magnesium	200	200	210	219	110			
Manganese	0	0.50		0.51	102			
Molybdenum	0	1.00		1.05	105			
Nickel	0	1.00		0.98	98			
Selenium	0	1.00		1.06	106			
Silver	0	1.00		1.06	106			
Thallium	0	1.00		1.09	109			
Vanadium	0	0.50		0.52	104			
Zinc	0	1.00		1.05	105			

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-122...MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Lab Sample ID: 214993

Orig Lab Sample ID 20412290201

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	3590		2870		225	322	N	mg/kg	SW-846 6010B	P
Antimony	75	125	19.6		0	U	22.5	87		mg/kg	SW-846 6010B	P
Arsenic	75	125	22.4		0	U	22.5	100		mg/kg	SW-846 6010B	P
Barium	75	125	26.0		2.27		22.5	105		mg/kg	SW-846 6010B	P
Beryllium	75	125	24.1		0.041	B	22.5	107		mg/kg	SW-846 6010B	P
Cadmium	75	125	23.8		0.019	B	22.5	106		mg/kg	SW-846 6010B	P
Calcium	75	125	524		678		225	-69	N	mg/kg	SW-846 6010B	P
Chromium	75	125	27.1		3.00		22.5	107		mg/kg	SW-846 6010B	P
Cobalt	75	125	24.6		0.14	B	22.5	109		mg/kg	SW-846 6010B	P
Copper	75	125	25.1		0.58		22.5	109		mg/kg	SW-846 6010B	P
Iron	75	125	423		314		225	48	N	mg/kg	SW-846 6010B	P
Lead	75	125	27.4		3.96		22.5	104		mg/kg	SW-846 6010B	P
Magnesium	75	125	289		34.0		225	113		mg/kg	SW-846 6010B	P
Manganese	75	125	24.5		1.40		22.5	103		mg/kg	SW-846 6010B	P
Nickel	75	125	24.8		0.37	B	22.5	109		mg/kg	SW-846 6010B	P
Potassium	75	125	505		24.2		450	107		mg/kg	SW-846 6010B	P
Selenium	75	125	24.5		0.76	B	22.5	106		mg/kg	SW-846 6010B	P
Silver	75	125	23.1		0	U	22.5	103		mg/kg	SW-846 6010B	P
Sodium	75	125	986		19.9	B	899	107		mg/kg	SW-846 6010B	P
Thallium	75	125	24.6		0.12	B	22.5	109		mg/kg	SW-846 6010B	P
Vanadium	75	125	27.4		3.30		22.5	107		mg/kg	SW-846 6010B	P
Zinc	75	125	25.1		2.58		22.5	100		mg/kg	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-12...MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Lab Sample ID: 214994

Orig Lab Sample ID 20412290201

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	3180		2870		225	141	N	mg/kg	SW-846 6010B	P
Antimony	75	125	19.1		0	U	22.5	85		mg/kg	SW-846 6010B	P
Arsenic	75	125	21.8		0	U	22.5	97		mg/kg	SW-846 6010B	P
Barium	75	125	26.3		2.27		22.5	107		mg/kg	SW-846 6010B	P
Beryllium	75	125	24.1		0.041	B	22.5	107		mg/kg	SW-846 6010B	P
Cadmium	75	125	23.8		0.019	B	22.5	106		mg/kg	SW-846 6010B	P
Calcium	75	125	492		678		225	-83	N	mg/kg	SW-846 6010B	P
Chromium	75	125	27.0		3.00		22.5	107		mg/kg	SW-846 6010B	P
Cobalt	75	125	24.6		0.14	B	22.5	109		mg/kg	SW-846 6010B	P
Copper	75	125	24.9		0.58		22.5	108		mg/kg	SW-846 6010B	P
Iron	75	125	397		314		225	37	N	mg/kg	SW-846 6010B	P
Lead	75	125	27.1		3.96		22.5	103		mg/kg	SW-846 6010B	P
Magnesium	75	125	282		34.0		225	111		mg/kg	SW-846 6010B	P
Manganese	75	125	24.9		1.40		22.5	105		mg/kg	SW-846 6010B	P
Nickel	75	125	24.6		0.37	B	22.5	108		mg/kg	SW-846 6010B	P
Potassium	75	125	494		24.2		450	104		mg/kg	SW-846 6010B	P
Selenium	75	125	23.6		0.76	B	22.5	102		mg/kg	SW-846 6010B	P
Silver	75	125	22.9		0	U	22.5	102		mg/kg	SW-846 6010B	P
Sodium	75	125	965		19.9	B	899	105		mg/kg	SW-846 6010B	P
Thallium	75	125	24.1		0.12	B	22.5	107		mg/kg	SW-846 6010B	P
Vanadium	75	125	27.1		3.30		22.5	106		mg/kg	SW-846 6010B	P
Zinc	75	125	25.2		2.58		22.5	101		mg/kg	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-122...MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Lab Sample ID: 214998

Orig Lab Sample ID 20412290201

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.29		0.0071	B	0.28	101		mg/kg	SW-846 7471A	AV

FORM V (PART 1) - IN

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-12...MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Lab Sample ID: 214999

Orig Lab Sample ID 20412290201

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.29		0.0071	B	0.28	101		mg/kg	SW-846 7471A	AV

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-12...PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Lab Sample ID: 215323

Orig Lab Sample ID 20412290201

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	2900		2870		225	17	N	mg/kg	SW-846 6010B	P
Antimony	75	125	21.1		0	U	22.5	94		mg/kg	SW-846 6010B	P
Arsenic	75	125	21.1		0	U	22.5	94		mg/kg	SW-846 6010B	P
Barium	75	125	25.0		2.27		22.5	101		mg/kg	SW-846 6010B	P
Beryllium	75	125	22.7		0.041	B	22.5	101		mg/kg	SW-846 6010B	P
Cadmium	75	125	22.4		0.019	B	22.5	99		mg/kg	SW-846 6010B	P
Calcium	75	125	858		678		225	80		mg/kg	SW-846 6010B	P
Chromium	75	125	25.6		3.00		22.5	101		mg/kg	SW-846 6010B	P
Cobalt	75	125	23.3		0.14	B	22.5	103		mg/kg	SW-846 6010B	P
Copper	75	125	23.7		0.58		22.5	103		mg/kg	SW-846 6010B	P
Iron	75	125	519		314		225	91		mg/kg	SW-846 6010B	P
Lead	75	125	26.6		3.96		22.5	101		mg/kg	SW-846 6010B	P
Magnesium	75	125	262		34.0		225	101		mg/kg	SW-846 6010B	P
Manganese	75	125	24.2		1.40		22.5	101		mg/kg	SW-846 6010B	P
Nickel	75	125	23.2		0.37	B	22.5	102		mg/kg	SW-846 6010B	P
Potassium	75	125	479		24.2		450	101		mg/kg	SW-846 6010B	P
Selenium	75	125	22.8		0.76	B	22.5	98		mg/kg	SW-846 6010B	P
Silver	75	125	21.7		0	U	22.5	97		mg/kg	SW-846 6010B	P
Sodium	75	125	932		19.9	B	899	101		mg/kg	SW-846 6010B	P
Thallium	75	125	22.6		0.12	B	22.5	100		mg/kg	SW-846 6010B	P
Vanadium	75	125	25.8		3.30		22.5	100		mg/kg	SW-846 6010B	P
Zinc	75	125	25.0		2.58		22.5	100		mg/kg	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-12...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

% Solids for Sample: 88.95

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 214992

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Aluminum	0	20	2870		2890		.8		mg/kg	SW-846 6010B	P
Antimony	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Arsenic	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Barium	0	20	2.27		2.07		9		mg/kg	SW-846 6010B	P
Beryllium	0	20	0.041	B	0.033	B	22	*	mg/kg	SW-846 6010B	P
Cadmium	0	20	0.019	B	0.021	B	11		mg/kg	SW-846 6010B	P
Calcium	0	20	678		602		12		mg/kg	SW-846 6010B	P
Chromium	0	20	3.00		3.09		3		mg/kg	SW-846 6010B	P
Cobalt	0	20	0.14	B	0.14	B	0		mg/kg	SW-846 6010B	P
Copper	0	20	0.58		0.55		4		mg/kg	SW-846 6010B	P
Iron	0	20	314		166		62	*	mg/kg	SW-846 6010B	P
Lead	0	20	3.96		3.58		10		mg/kg	SW-846 6010B	P
Magnesium	0	20	34.0		24.7		31	*	mg/kg	SW-846 6010B	P
Manganese	0	20	1.40		1.01		32	*	mg/kg	SW-846 6010B	P
Nickel	0	20	0.37	B	0.33	B	10		mg/kg	SW-846 6010B	P
Potassium	0	20	24.2		22.3		8		mg/kg	SW-846 6010B	P
Selenium	0	20	0.76	B	0.78	B	4		mg/kg	SW-846 6010B	P
Silver	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Sodium	0	20	19.9	B	16.5	B	19		mg/kg	SW-846 6010B	P
Thallium	0	20	0.12	B	0	U	200	*	mg/kg	SW-846 6010B	P
Vanadium	0	20	3.30		3.36		2		mg/kg	SW-846 6010B	P
Zinc	0	20	2.58		2.31		11		mg/kg	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-12...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

% Solids for Sample: 88.95

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 214997

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0.0071	B	0.0093	B	26	*	mg/kg	SW-846 7471A	AV

FORM VI - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS214991

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Lab Sample ID: 214991

LCS Source: 334-21-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	200	210	105	80	120	mg/kg	SW-846 6010B	P
Antimony	20.0	19.9	100	80	120	mg/kg	SW-846 6010B	P
Arsenic	20.0	20.3	101	80	120	mg/kg	SW-846 6010B	P
Barium	20.0	20.3	101	80	120	mg/kg	SW-846 6010B	P
Beryllium	20.0	19.8	99	80	120	mg/kg	SW-846 6010B	P
Cadmium	20.0	20.1	100	80	120	mg/kg	SW-846 6010B	P
Calcium	200	207	104	80	120	mg/kg	SW-846 6010B	P
Chromium	20.0	20.4	102	80	120	mg/kg	SW-846 6010B	P
Cobalt	20.0	20.6	103	80	120	mg/kg	SW-846 6010B	P
Copper	20.0	20.3	101	80	120	mg/kg	SW-846 6010B	P
Iron	200	208	104	80	120	mg/kg	SW-846 6010B	P
Lead	20.0	20.6	103	80	120	mg/kg	SW-846 6010B	P
Magnesium	200	220	110	80	120	mg/kg	SW-846 6010B	P
Manganese	20.0	20.5	103	80	120	mg/kg	SW-846 6010B	P
Nickel	20.0	20.5	102	80	120	mg/kg	SW-846 6010B	P
Potassium	400	384	96	80	120	mg/kg	SW-846 6010B	P
Selenium	20.0	20.3	101	80	120	mg/kg	SW-846 6010B	P
Silver	20.0	19.7	99	80	125	mg/kg	SW-846 6010B	P
Sodium	800	772	97	80	120	mg/kg	SW-846 6010B	P
Thallium	20.0	20.8	104	80	120	mg/kg	SW-846 6010B	P
Vanadium	20.0	20.2	101	80	120	mg/kg	SW-846 6010B	P
Zinc	20.0	19.8	99	80	120	mg/kg	SW-846 6010B	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS214996

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Lab Sample ID: 214996

LCS Source: 125-31-1 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.25	0.26	103	80	120	mg/kg	SW-846 7471A	AV

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 001-NFF-BFC-S-122...SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 204122902

Level: (low / med)

Org Lab Sample ID: 20412290201

Lab Sample ID: 215324

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum	0	10	2870		2840		1.0		mg/kg	SW-846 6010B	P
Antimony			0	U	0	U			mg/kg	SW-846 6010B	P
Arsenic			0	U	0	U			mg/kg	SW-846 6010B	P
Barium	0	10	2.27		2.30		1.3		mg/kg	SW-846 6010B	P
Beryllium			0.040	B	0.065	B	62.5		mg/kg	SW-846 6010B	P
Cadmium			0.019	B	0.076	B	300.0		mg/kg	SW-846 6010B	P
Calcium	0	10	679		668		1.6		mg/kg	SW-846 6010B	P
Chromium	0	10	3.00		2.39		20.3	E	mg/kg	SW-846 6010B	P
Cobalt			0.13	B	0.15	B	15.4		mg/kg	SW-846 6010B	P
Copper			0.57		0.73	B	28.1		mg/kg	SW-846 6010B	P
Iron	0	10	314		317		1.0		mg/kg	SW-846 6010B	P
Lead	0	10	3.96		3.64		8.1		mg/kg	SW-846 6010B	P
Magnesium			33.9		36.1		6.5		mg/kg	SW-846 6010B	P
Manganese	0	10	1.39		1.45	B	4.3		mg/kg	SW-846 6010B	P
Nickel			0.37	B	0.42	B	13.5		mg/kg	SW-846 6010B	P
Potassium			24.2		40.4		66.9		mg/kg	SW-846 6010B	P
Selenium			0.75	B	0	U	100.0		mg/kg	SW-846 6010B	P
Silver			0	U	0	U			mg/kg	SW-846 6010B	P
Sodium			19.9	B	20.8	B	4.5		mg/kg	SW-846 6010B	P
Thallium			0.12	B	0.80	B	566.7		mg/kg	SW-846 6010B	P
Vanadium	0	10	3.30		3.26	B	1.2		mg/kg	SW-846 6010B	P
Zinc			2.57		2.54	B	1.2		mg/kg	SW-846 6010B	P

FORM IX - IN

ICP LINEAR RANGES

Lab Name: GCAL

Lab Code: LA024

Study Date: 07/31/2004

Sample ID:

SDG No.: 204122902

Instrument ID: ICP5

Analyte	Concentration	Units	Type
Aluminum	60000	mg/kg	P
Antimony	2000	mg/kg	P
Arsenic	1000	mg/kg	P
Barium	1000	mg/kg	P
Beryllium	200	mg/kg	P
Cadmium	600	mg/kg	P
Calcium	80000	mg/kg	P
Chromium	4800	mg/kg	P
Cobalt	5000	mg/kg	P
Copper	4000	mg/kg	P
Iron	32000	mg/kg	P
Lead	4000	mg/kg	P
Lithium	800	mg/kg	P
Magnesium	32000	mg/kg	P
Manganese	2400	mg/kg	P
Nickel	2000	mg/kg	P
Potassium	6000	mg/kg	P
Selenium	600	mg/kg	P
Silver	400	mg/kg	P
Sodium	24000	mg/kg	P
Thallium	400	mg/kg	P
Tin	2000	mg/kg	P
Vanadium	4000	mg/kg	P
Zinc	1400	mg/kg	P

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 204122902

Method: 3050B

Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
001-NFF-BFC-S-12...DUP	12/29/04	1.25	g	50	mL
001-NFF-BFC-S-12...MSD	12/29/04	1.25	g	50	mL
001-NFF-BFC-S-122...MS	12/29/04	1.25	g	50	mL
001-NFF-BFC-S-1228-04	12/29/04	1.25	g	50	mL
LCS214991	12/29/04	1.25	g	50	mL
MB214990	12/29/04	1.25	g	50	mL

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 204122902

Method: SW-846 7471A

Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
001-NFF-BFC-S-12...DUP	12/22/04	0.6	g	30	mL
001-NFF-BFC-S-12...MSD	12/22/04	0.6	g	30	mL
001-NFF-BFC-S-122...MS	12/22/04	0.6	g	30	mL
001-NFF-BFC-S-1228-04	12/22/04	0.6	g	30	mL
LCS214996	12/22/04	0.6	g	30	mL
MB214995	12/22/04	0.6	g	30	mL

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/30/04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902 End Date: 12/30/04

Instrument ID Number: ICP5 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	Zr
				Analyte Symbols																														
ICV	*	1	1430	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICB	*	1	1437	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CRDL	*	1	1444	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICSA	*	1	1451	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICSAB	*	1	1458	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCV	*	1	1504	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1510	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
MB214990	*	1	1516	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
LCS214991	*	1	1523	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-1228-04	*	1	1529	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-12...DUP	*	1	1535	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-122...MS	*	1	1542	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-12...MSD	*	1	1549	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-12...PDS	*	1	1555	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
001-NFF-BFC-S-122...SD	*	5	1602	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1608																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1615																															
CCV	*	1	1621	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1628	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1635																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1641																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1647																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1654																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1701																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1707																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1713																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1720																															

000734

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/30/04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902 End Date: 12/30/04

Instrument ID Number: ICP5 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	Zr
CCV	*	1	1726	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1733	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	

000235

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 12/29/04

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204122902 End Date: 12/29/04

Instrument ID Number: FIMS1 Method: SW-846 7471A Method Type: AV

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	Zr
				Analyte Symbols																														
ICV	*	1	1627																	X														
ICB	*	1	1628																	X														
CCV	*	1	1630																	X														
CCB	*	1	1632																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1642																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1644																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1645																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1647																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1649																															
CCV	*	1	1651																	X														
CCB	*	1	1653																	X														
MB214995	*	1	1654																	X														
LCS214996	*	1	1656																	X														
001-NFF-BFC-S-1228-04	*	1	1658																	X														
001-NFF-BFC-S-12...DUP	*	1	1700																	X														
001-NFF-BFC-S-122...MS	*	1	1701																	X														
001-NFF-BFC-S-12...MSD	*	1	1703																	X														
CCV	*	1	1705																	X														
CCB	*	1	1707																	X														

000736

FORM XIV - IN

ICP 5

AS#	SAMPLE ID	
1	CALIBRATION BLANK	
2	STANDARD 1	125-42-5
11	ICV-1600	125-41-1
1	ICB-1700 F: Ce, Si	
3	CRDL-2300	125-42-4
4	~~CRDL-2301~~ not analyzed	125-36-4
5	ICSA-2000	125-40-5
6	ICSAB-2100	125-40-1
7	CCV-1800	
1	CCB-1900	

ANALYST JAC
DATE 12/30/2004
TIME 1416

			Dilution
17	214990	BLK 2041229 S1	
18	214991	LCS 2041229 S1	
19	---- 4380 ----	c 20412290201	
20	214992	c 20412290201 DUP	
21	214993	c 20412290201 MS	
22	214994	c 20412290201 MSD	
23	215323	c 20412290201 A	
24	215324	c 20412290201 L	5 X
25	215199	BLK 2041230 S1	
26	215200	LCS 2041230 S1	
7	CCV-1800		
1	CCB-1900		
27	---- 4328 ----	20412300204	
28		20412300202 MS	
29		20412300206 MSD	
30	215352	20412300204 A	
31	215353	20412300204 L	5 X
32		20412300201	
33		20412300203	
34		20412300205	
35			
36			
7	CCV-1800		
1	CCB-1900		
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			

AS#	SAMPLE ID		Dilution
7	CCV-1800		
1	CCB-1900		
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
7	CCV-1800		
1	CCB-1900		
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
7	CCV-1800		
1	CCB-1900		
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
7	CCV-1800		
1	CCB-1900		

ANALYST QC REV: JAC
SECONDARY REV: MAP

QC CONTROL LIMITS:
ICV (200.7) 95-105%
ICV (6010B) 90-110%
ICSAB 80-120%
CCV 90-110%

COMMENTS: 2721, 285618

QC: all acceptable qc noted with a checkmark; failures as indicated.

Analysis Begun

Start Time: 12/30/2004 2:16:23 PM
Logged In Analyst: met
Spectrometer Model: Optima 4300 DV, S/N 077N0050202
Plasma On Time: 12/30/2004 7:46:58 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: N:\Metals Sample Info\Sample Info.sif
Batch ID:
Results Data Set: 2041230 B
Results Library: C:\pe\localbox\Results\Results.mdb

Method Loaded
Method Name: ICP5Combined
IEC File: 2040807 IEC.iec
Method Description:
Method Last Saved: 12/28/2004 9:12:58 AM
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Aluminum,7429-90-5	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Antimony,7440-36-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Arsenic,7440-38-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Barium,7440-39-3	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Beryllium,7440-41-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Boron,7440-42-8	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Cadmium,7440-43-9	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Calcium,7440-70-2	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Cerium,	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	No
Chromium,7440-47-3	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Cobalt,7440-48-4	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Copper,7440-50-8	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Iron,7439-89-6	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Lead,7439-92-1	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Lithium,7439-93-2	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Magnesium,7439-95-4	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5A	Yes
Manganese,7439-96-5	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Molybdenum,7439-98-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Nickel,7440-02-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Phosphorus,7723-14-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	No
Potassium,7440-09-7	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Selenium,7782-49-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Silicon,7440-21-3	Lin, Calc Int	Peak Height	Radial	Yttrium,7440-65-5R	No
Silver,7440-22-4	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Sodium,7440-23-5	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Strontium,7440-24-6	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5A	Yes
Thallium,7440-28-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Tin,7440-31-5	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Titanium,7440-32-6	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Vanadium,7440-62-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Zinc,7440-66-6	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Zirconium,7440-67-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Scandium-IS	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yttrium,7440-65-5A	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yttrium,7440-65-5R	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Ar 420.067 R	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Ar 363.268 A	Lin, Calc Int	Peak Area	Axial	n/a	n/a

Sequence No.: 1
Sample ID: Calib Blank 1
Nebulizer Back Pressure: 196.0 kPa
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 12/30/2004 2:16:24 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Scandium-IS	5739551.7	198010.01	3.45%	100.00	%
Yttrium,7440-65-5A	2953683.7	93354.06	3.16%	100.00	%

Yttrium,7440-65-5R	196096.7	1599.57	0.82%	100.000	%
Ar 420.067 R	1795906.6	5675.32	0.32%	100.00	%
Ar 363.268 A	59231.3	590.96	1.00%	100.00	%
Aluminum,7429-90-5†	-330.6	22.90	6.93%	[0.00]	mg/L
Antimony,7440-36-0†	-60.4	3.90	6.45%	[0.00]	mg/L
Arsenic,7440-38-2†	-11.3	1.56	13.87%	[0.00]	mg/L
Barium,7440-39-3†	-90.9	12.98	14.28%	[0.00]	mg/L
Beryllium,7440-41-7†	-6278.4	256.55	4.09%	[0.00]	mg/L
Boron,7440-42-8†	208.5	24.93	11.96%	[0.00]	mg/L
Cadmium,7440-43-9†	-248.4	14.49	5.83%	[0.00]	mg/L
Calcium,7440-70-2†	-135.1	19.85	14.70%	[0.00]	mg/L
Cerium,†	3009.7	78.20	2.60%	[0.00]	mg/L
Chromium,7440-47-3†	6134.8	118.55	1.93%	[0.00]	mg/L
Cobalt,7440-48-4†	-158.7	18.29	11.52%	[0.00]	mg/L
Copper,7440-50-8†	-618.9	94.92	15.34%	[0.00]	mg/L
Iron,7439-89-6†	-915.2	8.74	0.96%	[0.00]	mg/L
Lead,7439-92-1†	194.2	2.49	1.28%	[0.00]	mg/L
Lithium,7439-93-2†	84.8	80.05	94.43%	[0.00]	mg/L
Magnesium,7439-95-4†	-2.0	5.73	293.57%	[0.00]	mg/L
Manganese,7439-96-5†	-2792.5	83.24	2.98%	[0.00]	mg/L
Molybdenum,7439-98-7†	-117.1	9.04	7.72%	[0.00]	mg/L
Nickel,7440-02-0†	-64.0	16.22	25.32%	[0.00]	mg/L
Phosphorus,7723-14-0†	-65.0	13.15	20.23%	[0.00]	mg/L
Potassium,7440-09-7†	-6698.3	37.64	0.56%	[0.00]	mg/L
Selenium,7782-49-2†	67.0	5.22	7.79%	[0.00]	mg/L
Silicon,7440-21-3†	130.6	5.86	4.49%	[0.00]	mg/L
Silver,7440-22-4†	-3424.4	287.62	8.40%	[0.00]	mg/L
Sodium,7440-23-5†	3110.9	36.29	1.17%	[0.00]	mg/L
Strontium,7440-24-6†	1214.0	42.35	3.49%	[0.00]	mg/L
Thallium,7440-28-0†	-49.5	4.72	9.54%	[0.00]	mg/L
Tin,7440-31-5†	16.3	3.62	22.26%	[0.00]	mg/L
Titanium,7440-32-6†	4640.1	212.52	4.58%	[0.00]	mg/L
Vanadium,7440-62-2†	2623.5	38.48	1.47%	[0.00]	mg/L
Zinc,7440-66-6†	265.0	14.41	5.44%	[0.00]	mg/L
Zirconium,7440-67-7†	4204.9	121.45	2.89%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Nebulizer Back Pressure: 196.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/30/2004 2:23:21 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Scandium-IS	5628425.4	26155.23	0.46%	98.064	%
Yttrium,7440-65-5A	2858814.5	62815.65	2.20%	96.788	%
Yttrium,7440-65-5R	182946.4	3372.49	1.84%	93.294	%
Ar 420.067 R	1799299.9	5641.90	0.31%	100.19	%
Ar 363.268 A	59618.6	336.40	0.56%	100.65	%
Aluminum,7429-90-5†	8005.1	163.86	2.05%	[10.00000]	mg/L
Antimony,7440-36-0†	1665.2	18.33	1.10%	[1.000000]	mg/L
Arsenic,7440-38-2†	1172.1	12.78	1.09%	[1.000000]	mg/L
Barium,7440-39-3†	138986.0	2039.32	1.47%	[1.000000]	mg/L
Beryllium,7440-41-7†	4307829.5	78989.78	1.83%	[1.000000]	mg/L
Boron,7440-42-8†	168525.8	2715.37	1.61%	[5.00]	mg/L
Cadmium,7440-43-9†	123099.5	1616.49	1.31%	[1.000000]	mg/L
Calcium,7440-70-2†	64377.7	2004.48	3.11%	[10.00000]	mg/L
Cerium,†	5361.9	119.56	2.23%	[1.00]	mg/L
Chromium,7440-47-3†	142514.0	2240.07	1.57%	[1.000000]	mg/L
Cobalt,7440-48-4†	43839.9	390.36	0.89%	[1.000000]	mg/L
Copper,7440-50-8†	271076.6	4469.74	1.65%	[1.000000]	mg/L
Iron,7439-89-6†	56236.3	1784.50	3.17%	[10.00000]	mg/L
Lead,7439-92-1†	12282.4	100.84	0.82%	[1.000000]	mg/L
Lithium,7439-93-2†	190556.3	5651.67	2.97%	[1.00]	mg/L
Magnesium,7439-95-4†	12139.5	222.09	1.83%	[10.00000]	mg/L
Manganese,7439-96-5†	781479.8	11955.93	1.53%	[1.000000]	mg/L
Molybdenum,7439-98-7†	15363.3	138.37	0.90%	[1.00]	mg/L
Nickel,7440-02-0†	57630.9	840.09	1.46%	[1.000000]	mg/L

Phosphorus,7723-14-0†	5633.5	66.75	1.18%	[1.00]	mg/L
Potassium,7440-09-7†	88701.4	2291.85	2.58%	[20.00000]	mg/L
Selenium,7782-49-2†	1293.5	6.03	0.47%	[1.000000]	mg/L
Silicon,7440-21-3†	29.5	2.03	6.87%	[10.0]	mg/L
Silver,7440-22-4†	283937.9	4765.75	1.68%	[1.000000]	mg/L
Sodium,7440-23-5†	242002.2	7880.51	3.26%	[40.00000]	mg/L
Strontium,7440-24-6†	350003.7	12115.95	3.46%	[1.00]	mg/L
Thallium,7440-28-0†	2106.5	12.68	0.60%	[1.000000]	mg/L
Tin,7440-31-5†	4868.3	38.70	0.80%	[1.00]	mg/L
Titanium,7440-32-6†	631896.7	10564.56	1.67%	[1.000000]	mg/L
Vanadium,7440-62-2†	191545.8	2998.69	1.57%	[1.000000]	mg/L
Zinc,7440-66-6†	71823.2	1181.53	1.65%	[1.000000]	mg/L
Zirconium,7440-67-7†	470530.9	7826.47	1.66%	[1.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Aluminum,7429-90-5	1	Lin, Calc Int	-0.0	800.5	0.00000	1.000000	
Antimony,7440-36-0	1	Lin, Calc Int	0.0	1665	0.00000	1.000000	
Arsenic,7440-38-2	1	Lin, Calc Int	0.0	1172	0.00000	1.000000	
Barium,7440-39-3	1	Lin, Calc Int	0.0	139000	0.00000	1.000000	
Beryllium,7440-41-7	1	Lin, Calc Int	0.0	4308000	0.00000	1.000000	
Boron,7440-42-8	1	Lin, Calc Int	0.0	33710	0.00000	1.000000	
Cadmium,7440-43-9	1	Lin, Calc Int	0.0	123100	0.00000	1.000000	
Calcium,7440-70-2	1	Lin, Calc Int	-0.0	6438	0.00000	1.000000	
Cerium,	1	Lin, Calc Int	0.0	5362	0.00000	1.000000	
Chromium,7440-47-3	1	Lin, Calc Int	0.0	142500	0.00000	1.000000	
Cobalt,7440-48-4	1	Lin, Calc Int	0.0	43840	0.00000	1.000000	
Copper,7440-50-8	1	Lin, Calc Int	0.0	271100	0.00000	1.000000	
Iron,7439-89-6	1	Lin, Calc Int	0.0	5624	0.00000	1.000000	
Lead,7439-92-1	1	Lin, Calc Int	0.0	12280	0.00000	1.000000	
Lithium,7439-93-2	1	Lin, Calc Int	0.0	190600	0.00000	1.000000	
Magnesium,7439-95-4	1	Lin, Calc Int	0.0	1214	0.00000	1.000000	
Manganese,7439-96-5	1	Lin, Calc Int	0.0	781500	0.00000	1.000000	
Molybdenum,7439-98-7	1	Lin, Calc Int	0.0	15360	0.00000	1.000000	
Nickel,7440-02-0	1	Lin, Calc Int	0.0	57630	0.00000	1.000000	
Phosphorus,7723-14-0	1	Lin, Calc Int	0.0	5634	0.00000	1.000000	
Potassium,7440-09-7	1	Lin, Calc Int	0.0	4435	0.00000	1.000000	
Selenium,7782-49-2	1	Lin, Calc Int	0.0	1294	0.00000	1.000000	
Silicon,7440-21-3	1	Lin, Calc Int	-0.0	2.951	0.00000	1.000000	
Silver,7440-22-4	1	Lin, Calc Int	0.0	283900	0.00000	1.000000	
Sodium,7440-23-5	1	Lin, Calc Int	-0.0	6050	0.00000	1.000000	
Strontium,7440-24-6	1	Lin, Calc Int	0.0	350000	0.00000	1.000000	
Thallium,7440-28-0	1	Lin, Calc Int	0.0	2107	0.00000	1.000000	
Tin,7440-31-5	1	Lin, Calc Int	0.0	4868	0.00000	1.000000	
Titanium,7440-32-6	1	Lin, Calc Int	0.0	631900	0.00000	1.000000	
Vanadium,7440-62-2	1	Lin, Calc Int	0.0	191500	0.00000	1.000000	
Zinc,7440-66-6	1	Lin, Calc Int	0.0	71820	0.00000	1.000000	
Zirconium,7440-67-7	1	Lin, Calc Int	0.0	470500	0.00000	1.000000	

Sequence No.: 3
Sample ID: 1600
Nebulizer Back Pressure: 196.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/30/2004 2:30:37 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1600

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Scandium-IS	5818249.8	101.37	%	0.446				0.44%
Yttrium,7440-65-5A	2895543.2	98.032	%	1.6470				1.68%
Yttrium,7440-65-5R	191331.3	97.570	%	2.5090				2.57%
Ar 420.067 R	1779679.4	99.096	%	0.2246				0.23%
Ar 363.268 A	59391.1	100.27	%	0.355				0.35%
Aluminum,7429-90-5†	8281.7	10.331	mg/L	0.2452	10.331	mg/L	0.2452	2.37%
QC value within limits for Aluminum,7429-90-5 Recovery = 103.31%								
Antimony,7440-36-0†	1695.2	0.9916	mg/L	0.02732	0.9916	mg/L	0.02732	2.76%
QC value within limits for Antimony,7440-36-0 Recovery = 99.16%								

Arsenic,7440-38-2†	1162.0	1.0006 mg/L	0.02747	1.0006 mg/L	0.02747	2.75%
QC value within limits for Arsenic,7440-38-2 Recovery = 100.06%						
Barium,7440-39-3†	142243.7	1.0221 mg/L	0.01717	1.0221 mg/L	0.01717	1.68%
QC value within limits for Barium,7440-39-3 Recovery = 102.21%						
Beryllium,7440-41-7†	4288368.9	0.9951 mg/L	0.02010	0.9951 mg/L	0.02010	2.02%
QC value within limits for Beryllium,7440-41-7 Recovery = 99.51%						
Boron,7440-42-8†	171839.2	5.1078 mg/L	0.09278	5.1078 mg/L	0.09278	1.82%
QC value within limits for Boron,7440-42-8 Recovery = 102.16%						
Cadmium,7440-43-9†	122940.4	0.9982 mg/L	0.01567	0.9982 mg/L	0.01567	1.57%
QC value within limits for Cadmium,7440-43-9 Recovery = 99.82%						
Calcium,7440-70-2†	65456.0	10.166 mg/L	0.1320	10.166 mg/L	0.1320	1.30%
QC value within limits for Calcium,7440-70-2 Recovery = 101.66%						
Cerium,†	51.9	0.0097 mg/L	0.03199	0.0097 mg/L	0.03199	330.81%
Chromium,7440-47-3†	143528.3	1.0051 mg/L	0.01908	1.0051 mg/L	0.01908	1.90%
QC value within limits for Chromium,7440-47-3 Recovery = 100.51%						
Cobalt,7440-48-4†	43466.1	0.9887 mg/L	0.02984	0.9887 mg/L	0.02984	3.02%
QC value within limits for Cobalt,7440-48-4 Recovery = 98.87%						
Copper,7440-50-8†	272493.2	1.0056 mg/L	0.01763	1.0056 mg/L	0.01763	1.75%
QC value within limits for Copper,7440-50-8 Recovery = 100.56%						
Iron,7439-89-6†	56852.3	10.108 mg/L	0.1270	10.108 mg/L	0.1270	1.26%
QC value within limits for Iron,7439-89-6 Recovery = 101.08%						
Lead,7439-92-1†	12337.1	1.0053 mg/L	0.03093	1.0053 mg/L	0.03093	3.08%
QC value within limits for Lead,7439-92-1 Recovery = 100.53%						
Lithium,7439-93-2†	184629.4	0.9689 mg/L	0.01199	0.9689 mg/L	0.01199	1.24%
QC value within limits for Lithium,7439-93-2 Recovery = 96.89%						
Magnesium,7439-95-4†	12940.0	10.694 mg/L	0.1953	10.694 mg/L	0.1953	1.83%
QC value within limits for Magnesium,7439-95-4 Recovery = 106.94%						
Manganese,7439-96-5†	783479.4	1.0027 mg/L	0.01655	1.0027 mg/L	0.01655	1.65%
QC value within limits for Manganese,7439-96-5 Recovery = 100.27%						
Molybdenum,7439-98-7†	15212.3	0.9905 mg/L	0.02756	0.9905 mg/L	0.02756	2.78%
QC value within limits for Molybdenum,7439-98-7 Recovery = 99.05%						
Nickel,7440-02-0†	57813.9	1.0027 mg/L	0.01645	1.0027 mg/L	0.01645	1.64%
QC value within limits for Nickel,7440-02-0 Recovery = 100.27%						
Phosphorus,7723-14-0†	2165.7	0.3844 mg/L	0.01436	0.3844 mg/L	0.01436	3.74%
Potassium,7440-09-7†	42870.7	9.6681 mg/L	0.08132	9.6681 mg/L	0.08132	0.84%
QC value within limits for Potassium,7440-09-7 Recovery = 96.68%						
Selenium,7782-49-2†	1270.8	0.9825 mg/L	0.02844	0.9825 mg/L	0.02844	2.89%
QC value within limits for Selenium,7782-49-2 Recovery = 98.25%						
Silicon,7440-21-3†	44.2	14.984 mg/L	1.3226	14.984 mg/L	1.3226	8.83%
Silver,7440-22-4†	288823.5	1.0174 mg/L	0.01877	1.0174 mg/L	0.01877	1.84%
QC value within limits for Silver,7440-22-4 Recovery = 101.74%						
Sodium,7440-23-5†	59107.9	9.7702 mg/L	0.12029	9.7702 mg/L	0.12029	1.23%
QC value within limits for Sodium,7440-23-5 Recovery = 97.70%						
Strontium,7440-24-6†	347265.7	0.9914 mg/L	0.02728	0.9914 mg/L	0.02728	2.75%
QC value within limits for Strontium,7440-24-6 Recovery = 99.14%						
Thallium,7440-28-0†	2106.0	1.0116 mg/L	0.02854	1.0116 mg/L	0.02854	2.82%
QC value within limits for Thallium,7440-28-0 Recovery = 101.16%						
Tin,7440-31-5†	4949.0	1.0205 mg/L	0.03129	1.0205 mg/L	0.03129	3.07%
QC value within limits for Tin,7440-31-5 Recovery = 102.05%						
Titanium,7440-32-6†	634728.2	1.0044 mg/L	0.01759	1.0044 mg/L	0.01759	1.75%
QC value within limits for Titanium,7440-32-6 Recovery = 100.44%						
Vanadium,7440-62-2†	191277.1	0.9984 mg/L	0.01690	0.9984 mg/L	0.01690	1.69%
QC value within limits for Vanadium,7440-62-2 Recovery = 99.84%						
Zinc,7440-66-6†	70852.3	0.9770 mg/L	0.01630	0.9770 mg/L	0.01630	1.67%
QC value within limits for Zinc,7440-66-6 Recovery = 97.70%						
Zirconium,7440-67-7†	2789.0	0.0055 mg/L	0.00120	0.0055 mg/L	0.00120	22.02%

All analyte(s) passed QC.

Sequence No.: 4
Sample ID: 1700
Nebulizer Back Pressure: 196.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/30/2004 2:37:54 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
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
Scandium-IS	5715125.2	99.574	%	0.4354				0.44%
Yttrium,7440-65-5A	2936426.9	99.416	%	0.3092				0.31%

Yttrium,7440-65-5R	187610.1	95.672 %	1.3553				1.42%
Ar 420.067 R	1749281.1	97.404 %	0.3809				0.39%
Ar 363.268 A	58486.5	98.743 %	0.5350				0.54%
Aluminum,7429-90-5†	9.1	0.0114 mg/L	0.01554	0.0114 mg/L	0.01554	136.67%	
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated							
Antimony,7440-36-0†	2.1	0.0012 mg/L	0.00290	0.0012 mg/L	0.00290	237.59%	
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated							
Arsenic,7440-38-2†	1.6	0.0014 mg/L	0.00181	0.0014 mg/L	0.00181	133.63%	
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated							
Barium,7440-39-3†	-9.1	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	130.58%	
QC value within limits for Barium,7440-39-3 Recovery = Not calculated							
Beryllium,7440-41-7†	199.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	28.88%	
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated							
Boron,7440-42-8†	3403.6	0.1010 mg/L	0.00818	0.1010 mg/L	0.00818	8.10%	
QC value within limits for Boron,7440-42-8 Recovery = Not calculated							
Cadmium,7440-43-9†	26.3	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	32.50%	
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated							
Calcium,7440-70-2†	13.3	0.0021 mg/L	0.00285	0.0021 mg/L	0.00285	137.67%	
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated							
Cerium,†	87.5	0.0163 mg/L	0.02393	0.0163 mg/L	0.02393	146.60%	
QC value greater than the upper limit for Cerium, Recovery = Not calculated							
Chromium,7440-47-3†	126.8	0.0009 mg/L	0.00049	0.0009 mg/L	0.00049	55.28%	
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated							
Cobalt,7440-48-4†	-15.5	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	54.61%	
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated							
Copper,7440-50-8†	82.7	0.0003 mg/L	0.00019	0.0003 mg/L	0.00019	63.55%	
QC value within limits for Copper,7440-50-8 Recovery = Not calculated							
Iron,7439-89-6†	-20.7	-0.0037 mg/L	0.00352	-0.0037 mg/L	0.00352	95.49%	
QC value within limits for Iron,7439-89-6 Recovery = Not calculated							
Lead,7439-92-1†	6.8	0.0006 mg/L	0.00110	0.0006 mg/L	0.00110	197.86%	
QC value within limits for Lead,7439-92-1 Recovery = Not calculated							
Lithium,7439-93-2†	83.9	0.0004 mg/L	0.00044	0.0004 mg/L	0.00044	100.71%	
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated							
Magnesium,7439-95-4†	8.4	0.0069 mg/L	0.00715	0.0069 mg/L	0.00715	103.00%	
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated							
Manganese,7439-96-5†	-40.1	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	39.81%	
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated							
Molybdenum,7439-98-7†	26.3	0.0017 mg/L	0.00100	0.0017 mg/L	0.00100	58.35%	
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated							
Nickel,7440-02-0†	-9.9	-0.0002 mg/L	0.00050	-0.0002 mg/L	0.00050	292.18%	
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated							
Phosphorus,7723-14-0†	-3.8	-0.0007 mg/L	0.00490	-0.0007 mg/L	0.00490	719.31%	
QC value within limits for Phosphorus,7723-14-0 Recovery = Not calculated							
Potassium,7440-09-7†	-79.0	-0.0178 mg/L	0.01004	-0.0178 mg/L	0.01004	56.38%	
QC value within limits for Potassium,7440-09-7 Recovery = Not calculated							
Selenium,7782-49-2†	3.8	0.0030 mg/L	0.00494	0.0030 mg/L	0.00494	166.89%	
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated							
Silicon,7440-21-3†	9.0	3.0402 mg/L	0.91712	3.0402 mg/L	0.91712	30.17%	
QC value greater than the upper limit for Silicon,7440-21-3 Recovery = Not calculated							
Silver,7440-22-4†	133.7	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	47.28%	
QC value within limits for Silver,7440-22-4 Recovery = Not calculated							
Sodium,7440-23-5†	174.2	0.0288 mg/L	0.01509	0.0288 mg/L	0.01509	52.41%	
QC value within limits for Sodium,7440-23-5 Recovery = Not calculated							
Strontium,7440-24-6†	12.7	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	286.37%	
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated							
Thallium,7440-28-0†	16.8	0.0080 mg/L	0.00439	0.0080 mg/L	0.00439	54.99%	
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated							
Tin,7440-31-5†	10.1	0.0021 mg/L	0.00238	0.0021 mg/L	0.00238	114.24%	
QC value within limits for Tin,7440-31-5 Recovery = Not calculated							
Titanium,7440-32-6†	320.7	0.0005 mg/L	0.00042	0.0005 mg/L	0.00042	82.48%	
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated							
Vanadium,7440-62-2†	7.0	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	750.22%	
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated							
Zinc,7440-66-6†	-10.2	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	30.97%	
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated							
Zirconium,7440-67-7†	-111.0	-0.0002 mg/L	0.00027	-0.0002 mg/L	0.00027	112.62%	
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated							

QC Failed. Continue with analysis.

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Sequence No.: 5
Sample ID: 2300

Autosampler Location: 3
Date Collected: 12/30/2004 2:44:55 PM

Nebulizer Back Pressure: 197.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2300

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Scandium-IS	5797959.7	101.02	%	0.892				0.88%
Yttrium,7440-65-5A	2974820.9	100.72	%	0.915				0.91%
Yttrium,7440-65-5R	195722.1	99.809	%	0.9365				0.94%
Ar 420.067 R	1767999.6	98.446	%	0.4742				0.48%
Ar 363.268 A	59351.4	100.20	%	0.261				0.26%
Aluminum,7429-90-5†	197.4	0.2463	mg/L	0.01189	0.2463	mg/L	0.01189	4.83%
QC value within limits for Aluminum,7429-90-5 Recovery = 123.13%								
Antimony,7440-36-0†	100.6	0.0601	mg/L	0.00366	0.0601	mg/L	0.00366	6.10%
QC value within limits for Antimony,7440-36-0 Recovery = 100.13%								
Arsenic,7440-38-2†	48.5	0.0415	mg/L	0.00534	0.0415	mg/L	0.00534	12.85%
QC value within limits for Arsenic,7440-38-2 Recovery = 103.83%								
Barium,7440-39-3†	1381.2	0.0099	mg/L	0.00013	0.0099	mg/L	0.00013	1.36%
QC value within limits for Barium,7440-39-3 Recovery = 99.17%								
Beryllium,7440-41-7†	20879.9	0.0048	mg/L	0.00006	0.0048	mg/L	0.00006	1.20%
QC value within limits for Beryllium,7440-41-7 Recovery = 96.27%								
Boron,7440-42-8†	18250.4	0.5416	mg/L	0.00352	0.5416	mg/L	0.00352	0.65%
QC value within limits for Boron,7440-42-8 Recovery = 108.33%								
Cadmium,7440-43-9†	600.6	0.0049	mg/L	0.00008	0.0049	mg/L	0.00008	1.69%
QC value within limits for Cadmium,7440-43-9 Recovery = 97.47%								
Calcium,7440-70-2†	685.2	0.1064	mg/L	0.00370	0.1064	mg/L	0.00370	3.48%
QC value within limits for Calcium,7440-70-2 Recovery = 106.39%								
Chromium,7440-47-3†	1377.5	0.0096	mg/L	0.00023	0.0096	mg/L	0.00023	2.39%
QC value within limits for Chromium,7440-47-3 Recovery = 96.20%								
Cobalt,7440-48-4†	436.5	0.0097	mg/L	0.00009	0.0097	mg/L	0.00009	0.96%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.29%								
Copper,7440-50-8†	2807.4	0.0103	mg/L	0.00060	0.0103	mg/L	0.00060	5.86%
QC value within limits for Copper,7440-50-8 Recovery = 103.16%								
Iron,7439-89-6†	576.3	0.1024	mg/L	0.00137	0.1024	mg/L	0.00137	1.34%
QC value within limits for Iron,7439-89-6 Recovery = 102.41%								
Lead,7439-92-1†	191.6	0.0157	mg/L	0.00077	0.0157	mg/L	0.00077	4.89%
QC value within limits for Lead,7439-92-1 Recovery = 104.34%								
Lithium,7439-93-2†	10184.5	0.0535	mg/L	0.00039	0.0535	mg/L	0.00039	0.73%
QC value within limits for Lithium,7439-93-2 Recovery = 106.90%								
Magnesium,7439-95-4†	125.7	0.1038	mg/L	0.01030	0.1038	mg/L	0.01030	9.92%
QC value within limits for Magnesium,7439-95-4 Recovery = 103.84%								
Manganese,7439-96-5†	12076.5	0.0154	mg/L	0.00016	0.0154	mg/L	0.00016	1.04%
QC value within limits for Manganese,7439-96-5 Recovery = 102.88%								
Molybdenum,7439-98-7†	775.2	0.0505	mg/L	0.00118	0.0505	mg/L	0.00118	2.34%
QC value within limits for Molybdenum,7439-98-7 Recovery = 100.93%								
Nickel,7440-02-0†	2366.1	0.0410	mg/L	0.00063	0.0410	mg/L	0.00063	1.54%
QC value within limits for Nickel,7440-02-0 Recovery = 102.58%								
Potassium,7440-09-7†	2054.5	0.4632	mg/L	0.02117	0.4632	mg/L	0.02117	4.57%
QC value within limits for Potassium,7440-09-7 Recovery = 92.64%								
Selenium,7782-49-2†	54.8	0.0423	mg/L	0.00146	0.0423	mg/L	0.00146	3.45%
QC value within limits for Selenium,7782-49-2 Recovery = 105.73%								
Silver,7440-22-4†	2805.5	0.0099	mg/L	0.00042	0.0099	mg/L	0.00042	4.24%
QC value within limits for Silver,7440-22-4 Recovery = 98.78%								
Sodium,7440-23-5†	5778.1	0.9551	mg/L	0.01176	0.9551	mg/L	0.01176	1.23%
QC value within limits for Sodium,7440-23-5 Recovery = 95.51%								
Strontium,7440-24-6†	17245.5	0.0493	mg/L	0.00038	0.0493	mg/L	0.00038	0.76%
QC value within limits for Strontium,7440-24-6 Recovery = 98.53%								
Thallium,7440-28-0†	29.6	0.0150	mg/L	0.00559	0.0150	mg/L	0.00559	37.22%
QC value within limits for Thallium,7440-28-0 Recovery = 150.13%								
Tin,7440-31-5†	505.8	0.1043	mg/L	0.00183	0.1043	mg/L	0.00183	1.76%
QC value within limits for Tin,7440-31-5 Recovery = 104.25%								
Titanium,7440-32-6†	62781.9	0.0994	mg/L	0.00013	0.0994	mg/L	0.00013	0.13%
QC value within limits for Titanium,7440-32-6 Recovery = 99.35%								
Vanadium,7440-62-2†	3703.3	0.0193	mg/L	0.00011	0.0193	mg/L	0.00011	0.54%
QC value within limits for Vanadium,7440-62-2 Recovery = 96.66%								
Zinc,7440-66-6†	1428.9	0.0196	mg/L	0.00023	0.0196	mg/L	0.00023	1.17%
QC value within limits for Zinc,7440-66-6 Recovery = 97.95%								
Zirconium,7440-67-7†	4434.5	0.0094	mg/L	0.00034	0.0094	mg/L	0.00034	3.58%

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: 2000
Nebulizer Back Pressure: 197.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/30/2004 2:51:56 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
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
Scandium-IS	5157685.9	89.862	%	2.4830				2.76%
Yttrium,7440-65-5A	2615729.5	88.558	%	2.4990				2.82%
Yttrium,7440-65-5R	179562.1	91.568	%	0.9564				1.04%
Ar 420.067 R	1763084.0	98.172	%	0.5271				0.54%
Ar 363.268 A	58876.7	99.401	%	0.2034				0.20%
Aluminum,7429-90-5†	158653.5	198.19	mg/L	1.660	198.19	mg/L	1.660	0.84%
QC value within limits for Aluminum,7429-90-5 Recovery = 99.09%								
Antimony,7440-36-0†	-42.3	-0.0258	mg/L	0.00285	-0.0258	mg/L	0.00285	11.04%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	-20.9	-0.0635	mg/L	0.00085	-0.0635	mg/L	0.00085	1.34%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	279.2	-0.0095	mg/L	0.00015	-0.0095	mg/L	0.00015	1.60%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	-1935.7	-0.0004	mg/L	0.00006	-0.0004	mg/L	0.00006	13.01%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	-223.7	0.0529	mg/L	0.00197	0.0529	mg/L	0.00197	3.72%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Cadmium,7440-43-9†	16.5	-0.0029	mg/L	0.00011	-0.0029	mg/L	0.00011	4.01%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Calcium,7440-70-2†	1253136.3	194.64	mg/L	1.662	194.64	mg/L	1.662	0.85%
QC value within limits for Calcium,7440-70-2 Recovery = 97.32%								
Chromium,7440-47-3†	2073.1	-0.0112	mg/L	0.00159	-0.0112	mg/L	0.00159	14.23%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-0.4	-0.0023	mg/L	0.00045	-0.0023	mg/L	0.00045	19.29%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	-4949.2	-0.0139	mg/L	0.00067	-0.0139	mg/L	0.00067	4.83%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	429263.0	76.305	mg/L	0.6512	76.305	mg/L	0.6512	0.85%
QC value within limits for Iron,7439-89-6 Recovery = 95.38%								
Lead,7439-92-1†	-120.9	0.0060	mg/L	0.00073	0.0060	mg/L	0.00073	12.21%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								
Lithium,7439-93-2†	270.9	0.0012	mg/L	0.00033	0.0012	mg/L	0.00033	27.40%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated								
Magnesium,7439-95-4†	255107.4	210.43	mg/L	6.454	210.43	mg/L	6.454	3.07%
QC value within limits for Magnesium,7439-95-4 Recovery = 105.21%								
Manganese,7439-96-5†	137.0	0.0048	mg/L	0.00009	0.0048	mg/L	0.00009	1.79%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated								
Molybdenum,7439-98-7†	-18.5	0.0053	mg/L	0.00052	0.0053	mg/L	0.00052	9.72%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated								
Nickel,7440-02-0†	25.6	-0.0012	mg/L	0.00014	-0.0012	mg/L	0.00014	11.68%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated								
Potassium,7440-09-7†	-192.7	-0.0163	mg/L	0.02456	-0.0163	mg/L	0.02456	150.30%
QC value within limits for Potassium,7440-09-7 Recovery = Not calculated								
Selenium,7782-49-2†	-5.9	-0.0060	mg/L	0.00360	-0.0060	mg/L	0.00360	60.37%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated								
Silver,7440-22-4†	-2853.3	-0.0103	mg/L	0.00032	-0.0103	mg/L	0.00032	3.07%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated								
Sodium,7440-23-5†	538.8	0.0434	mg/L	0.01379	0.0434	mg/L	0.01379	31.74%
QC value within limits for Sodium,7440-23-5 Recovery = Not calculated								
Strontium,7440-24-6†	2106.8	-0.0085	mg/L	0.00009	-0.0085	mg/L	0.00009	1.02%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated								
Thallium,7440-28-0†	-3.8	0.0179	mg/L	0.00829	0.0179	mg/L	0.00829	46.29%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated								
Tin,7440-31-5†	-405.5	-0.0793	mg/L	0.00230	-0.0793	mg/L	0.00230	2.90%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated								
Titanium,7440-32-6†	1010.1	0.0013	mg/L	0.00069	0.0013	mg/L	0.00069	52.04%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated								
Vanadium,7440-62-2†	3427.5	0.0091	mg/L	0.00135	0.0091	mg/L	0.00135	14.78%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated								

Zinc,7440-66-6†	-637.0	-0.0163 mg/L	0.00038	-0.0163 mg/L	0.00038	2.37%

QC value within limits for Zinc,7440-66-6 Recovery = Not calculated

Zirconium,7440-67-7†	-318.6	-0.0003 mg/L	0.00022	-0.0003 mg/L	0.00022	74.64%

QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: 2100
Nebulizer Back Pressure: 197.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 12/30/2004 2:58:09 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 2100

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5230649.5	91.133	%	3.1188				3.42%
Yttrium,7440-65-5A	2656157.9	89.927	%	3.0786				3.42%
Yttrium,7440-65-5R	179783.7	91.681	%	1.0304				1.12%
Ar 420.067 R	1709939.7	95.213	%	0.2520				0.26%
Ar 363.268 A	58639.8	99.001	%	0.9250				0.93%
Aluminum,7429-90-5†	168585.0	210.59	mg/L	0.594	210.59	mg/L	0.594	0.28%
QC value within limits for Aluminum,7429-90-5 Recovery = 105.29%								
Antimony,7440-36-0†	1713.4	1.0155	mg/L	0.02810	1.0155	mg/L	0.02810	2.77%
QC value within limits for Antimony,7440-36-0 Recovery = 101.55%								
Arsenic,7440-38-2†	1228.3	1.0050	mg/L	0.03360	1.0050	mg/L	0.03360	3.34%
QC value within limits for Arsenic,7440-38-2 Recovery = 100.50%								
Barium,7440-39-3†	73241.2	0.5145	mg/L	0.01319	0.5145	mg/L	0.01319	2.56%
QC value within limits for Barium,7440-39-3 Recovery = 102.89%								
Beryllium,7440-41-7†	2237587.7	0.5194	mg/L	0.00907	0.5194	mg/L	0.00907	1.75%
QC value within limits for Beryllium,7440-41-7 Recovery = 103.88%								
Boron,7440-42-8†	35197.7	1.1086	mg/L	0.02428	1.1086	mg/L	0.02428	2.19%
QC value within limits for Boron,7440-42-8 Recovery = 110.86%								
Cadmium,7440-43-9†	124175.8	1.0055	mg/L	0.02385	1.0055	mg/L	0.02385	2.37%
QC value within limits for Cadmium,7440-43-9 Recovery = 100.55%								
Calcium,7440-70-2†	1319559.6	204.96	mg/L	1.968	204.96	mg/L	1.968	0.96%
QC value within limits for Calcium,7440-70-2 Recovery = 102.48%								
Chromium,7440-47-3†	74931.1	0.4981	mg/L	0.01385	0.4981	mg/L	0.01385	2.78%
QC value within limits for Chromium,7440-47-3 Recovery = 99.63%								
Cobalt,7440-48-4†	21407.9	0.4856	mg/L	0.01549	0.4856	mg/L	0.01549	3.19%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.12%								
Copper,7440-50-8†	137975.6	0.5136	mg/L	0.01365	0.5136	mg/L	0.01365	2.66%
QC value within limits for Copper,7440-50-8 Recovery = 102.71%								
Iron,7439-89-6†	456881.5	81.214	mg/L	0.2652	81.214	mg/L	0.2652	0.33%
QC value within limits for Iron,7439-89-6 Recovery = 101.52%								
Lead,7439-92-1†	12530.1	1.0371	mg/L	0.03308	1.0371	mg/L	0.03308	3.19%
QC value within limits for Lead,7439-92-1 Recovery = 103.71%								
Lithium,7439-93-2†	250.1	0.0011	mg/L	0.00016	0.0011	mg/L	0.00016	15.45%
Magnesium,7439-95-4†	265436.8	218.95	mg/L	10.422	218.95	mg/L	10.422	4.76%
QC value within limits for Magnesium,7439-95-4 Recovery = 109.48%								
Manganese,7439-96-5†	398185.0	0.5143	mg/L	0.01248	0.5143	mg/L	0.01248	2.43%
QC value within limits for Manganese,7439-96-5 Recovery = 102.87%								
Molybdenum,7439-98-7†	16017.5	1.0495	mg/L	0.03375	1.0495	mg/L	0.03375	3.22%
QC value within limits for Molybdenum,7439-98-7 Recovery = 104.95%								
Nickel,7440-02-0†	56737.9	0.9827	mg/L	0.02346	0.9827	mg/L	0.02346	2.39%
QC value within limits for Nickel,7440-02-0 Recovery = 98.27%								
Potassium,7440-09-7†	92.8	0.0502	mg/L	0.00962	0.0502	mg/L	0.00962	19.16%
Selenium,7782-49-2†	1374.8	1.0606	mg/L	0.04020	1.0606	mg/L	0.04020	3.79%
QC value within limits for Selenium,7782-49-2 Recovery = 106.06%								
Silver,7440-22-4†	300075.5	1.0567	mg/L	0.02656	1.0567	mg/L	0.02656	2.51%
QC value within limits for Silver,7440-22-4 Recovery = 105.67%								
Sodium,7440-23-5†	6818.0	1.0796	mg/L	0.00490	1.0796	mg/L	0.00490	0.45%
Strontium,7440-24-6†	1959.1	-0.0097	mg/L	0.00051	-0.0097	mg/L	0.00051	5.26%
Thallium,7440-28-0†	2247.6	1.0887	mg/L	0.03548	1.0887	mg/L	0.03548	3.26%
QC value within limits for Thallium,7440-28-0 Recovery = 108.87%								
Tin,7440-31-5†	-405.7	-0.0790	mg/L	0.00474	-0.0790	mg/L	0.00474	6.01%
Titanium,7440-32-6†	869.6	0.0011	mg/L	0.00079	0.0011	mg/L	0.00079	74.22%
Vanadium,7440-62-2†	101785.2	0.5224	mg/L	0.01341	0.5224	mg/L	0.01341	2.57%
QC value within limits for Vanadium,7440-62-2 Recovery = 104.48%								
Zinc,7440-66-6†	76291.5	1.0471	mg/L	0.02681	1.0471	mg/L	0.02681	2.56%

QC value within limits for Zinc,7440-66-6 Recovery = 104.71%
Zirconium,7440-67-7† 556.9 0.0017 mg/L 0.00034 0.0017 mg/L 0.00034 20.53%
All analyte(s) passed QC.

Sequence No.: 8
Sample ID: 1800
Nebulizer Back Pressure: 197.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 12/30/2004 3:04:27 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
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
Scandium-IS	5794768.0	100.96	%	0.910				0.90%
Yttrium,7440-65-5A	2942172.2	99.610	%	0.9416				0.95%
Yttrium,7440-65-5R	190021.8	96.902	%	0.2855				0.29%
Ar 420.067 R	1768996.0	98.502	%	0.1480				0.15%
Ar 363.268 A	59349.3	100.20	%	0.195				0.19%
Aluminum,7429-90-5†	4258.7	5.3129	mg/L	0.07346	5.3129	mg/L	0.07346	1.38%
QC value within limits for Aluminum,7429-90-5 Recovery = 106.26%								
Antimony,7440-36-0†	843.1	0.4930	mg/L	0.01308	0.4930	mg/L	0.01308	2.65%
QC value within limits for Antimony,7440-36-0 Recovery = 98.60%								
Arsenic,7440-38-2†	585.8	0.5044	mg/L	0.01283	0.5044	mg/L	0.01283	2.54%
QC value within limits for Arsenic,7440-38-2 Recovery = 100.88%								
Barium,7440-39-3†	70366.9	0.5056	mg/L	0.01256	0.5056	mg/L	0.01256	2.48%
QC value within limits for Barium,7440-39-3 Recovery = 101.12%								
Beryllium,7440-41-7†	2173014.4	0.5043	mg/L	0.01462	0.5043	mg/L	0.01462	2.90%
QC value within limits for Beryllium,7440-41-7 Recovery = 100.85%								
Boron,7440-42-8†	84444.2	2.5103	mg/L	0.04692	2.5103	mg/L	0.04692	1.87%
QC value within limits for Boron,7440-42-8 Recovery = 100.41%								
Cadmium,7440-43-9†	62241.8	0.5054	mg/L	0.01359	0.5054	mg/L	0.01359	2.69%
QC value within limits for Cadmium,7440-43-9 Recovery = 101.07%								
Calcium,7440-70-2†	33461.0	5.1970	mg/L	0.03229	5.1970	mg/L	0.03229	0.62%
QC value within limits for Calcium,7440-70-2 Recovery = 103.94%								
Chromium,7440-47-3†	72352.0	0.5066	mg/L	0.01321	0.5066	mg/L	0.01321	2.61%
QC value within limits for Chromium,7440-47-3 Recovery = 101.33%								
Cobalt,7440-48-4†	22505.7	0.5120	mg/L	0.01578	0.5120	mg/L	0.01578	3.08%
QC value within limits for Cobalt,7440-48-4 Recovery = 102.39%								
Copper,7440-50-8†	135935.9	0.5017	mg/L	0.01133	0.5017	mg/L	0.01133	2.26%
QC value within limits for Copper,7440-50-8 Recovery = 100.34%								
Iron,7439-89-6†	29499.5	5.2449	mg/L	0.02246	5.2449	mg/L	0.02246	0.43%
QC value within limits for Iron,7439-89-6 Recovery = 104.90%								
Lead,7439-92-1†	6331.0	0.5159	mg/L	0.00954	0.5159	mg/L	0.00954	1.85%
QC value within limits for Lead,7439-92-1 Recovery = 103.18%								
Lithium,7439-93-2†	94639.1	0.4966	mg/L	0.00255	0.4966	mg/L	0.00255	0.51%
QC value within limits for Lithium,7439-93-2 Recovery = 99.33%								
Magnesium,7439-95-4†	6553.7	5.4165	mg/L	0.09306	5.4165	mg/L	0.09306	1.72%
QC value within limits for Magnesium,7439-95-4 Recovery = 108.33%								
Manganese,7439-96-5†	398488.5	0.5100	mg/L	0.01313	0.5100	mg/L	0.01313	2.58%
QC value within limits for Manganese,7439-96-5 Recovery = 102.00%								
Molybdenum,7439-98-7†	7766.3	0.5057	mg/L	0.01116	0.5057	mg/L	0.01116	2.21%
QC value within limits for Molybdenum,7439-98-7 Recovery = 101.13%								
Nickel,7440-02-0†	29455.9	0.5109	mg/L	0.01512	0.5109	mg/L	0.01512	2.96%
QC value within limits for Nickel,7440-02-0 Recovery = 102.18%								
Potassium,7440-09-7†	43159.5	9.7323	mg/L	0.03397	9.7323	mg/L	0.03397	0.35%
QC value within limits for Potassium,7440-09-7 Recovery = 97.32%								
Selenium,7782-49-2†	648.9	0.5017	mg/L	0.00788	0.5017	mg/L	0.00788	1.57%
QC value within limits for Selenium,7782-49-2 Recovery = 100.35%								
Silver,7440-22-4†	142149.3	0.5007	mg/L	0.01054	0.5007	mg/L	0.01054	2.10%
QC value within limits for Silver,7440-22-4 Recovery = 100.15%								
Sodium,7440-23-5†	117970.1	19.499	mg/L	0.0476	19.499	mg/L	0.0476	0.24%
QC value within limits for Sodium,7440-23-5 Recovery = 97.50%								
Strontium,7440-24-6†	171261.3	0.4889	mg/L	0.00659	0.4889	mg/L	0.00659	1.35%
QC value within limits for Strontium,7440-24-6 Recovery = 97.78%								
Thallium,7440-28-0†	1079.0	0.5182	mg/L	0.00900	0.5182	mg/L	0.00900	1.74%
QC value within limits for Thallium,7440-28-0 Recovery = 103.64%								
Tin,7440-31-5†	2455.7	0.5064	mg/L	0.01088	0.5064	mg/L	0.01088	2.15%
QC value within limits for Tin,7440-31-5 Recovery = 101.28%								
Titanium,7440-32-6†	320793.6	0.5076	mg/L	0.01248	0.5076	mg/L	0.01248	2.46%

QC value within limits for Titanium,7440-32-6 Recovery = 101.53%
Vanadium,7440-62-2† 95898.1 0.5006 mg/L 0.01228 0.5006 mg/L 0.01228 2.45%
QC value within limits for Vanadium,7440-62-2 Recovery = 100.11%
Zinc,7440-66-6† 36977.7 0.5100 mg/L 0.01604 0.5100 mg/L 0.01604 3.15%
QC value within limits for Zinc,7440-66-6 Recovery = 102.00%
Zirconium,7440-67-7† 235151.9 0.4995 mg/L 0.01190 0.4995 mg/L 0.01190 2.38%
QC value within limits for Zirconium,7440-67-7 Recovery = 99.91%
All analyte(s) passed QC.

Sequence No.: 9
Sample ID: 1900
Nebulizer Back Pressure: 197.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/30/2004 3:10:50 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1900

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Scandium-IS	5781567.3	100.73	%	2.716				2.70%
Yttrium,7440-65-5A	2976684.5	100.78	%	2.885				2.86%
Yttrium,7440-65-5R	192708.5	98.272	%	1.8731				1.91%
Ar 420.067 R	1790492.8	99.699	%	0.1630				0.16%
Ar 363.268 A	58292.5	98.415	%	0.0720				0.07%
Aluminum,7429-90-5†	17.3	0.0216	mg/L	0.02237	0.0216	mg/L	0.02237	103.65%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	-0.4	-0.0003	mg/L	0.00173	-0.0003	mg/L	0.00173	683.35%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	1.6	0.0014	mg/L	0.00091	0.0014	mg/L	0.00091	65.84%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-6.8	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	77.78%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	162.2	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	157.02%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1737.0	0.0515	mg/L	0.00306	0.0515	mg/L	0.00306	5.94%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Cadmium,7440-43-9†	15.9	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	36.58%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Calcium,7440-70-2†	12.2	0.0019	mg/L	0.00180	0.0019	mg/L	0.00180	95.34%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Chromium,7440-47-3†	-0.4	0.0000	mg/L	0.00114	0.0000	mg/L	0.00114	>999.9%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	-5.1	-0.0001	mg/L	0.00024	-0.0001	mg/L	0.00024	208.06%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	61.2	0.0002	mg/L	0.00044	0.0002	mg/L	0.00044	193.67%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	22.8	0.0040	mg/L	0.00201	0.0040	mg/L	0.00201	49.68%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	3.4	0.0003	mg/L	0.00043	0.0003	mg/L	0.00043	153.11%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								
Lithium,7439-93-2†	66.3	0.0003	mg/L	0.00041	0.0003	mg/L	0.00041	118.20%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated								
Magnesium,7439-95-4†	-0.5	-0.0004	mg/L	0.01474	-0.0004	mg/L	0.01474	>999.9%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated								
Manganese,7439-96-5†	1.1	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	>999.9%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated								
Molybdenum,7439-98-7†	18.3	0.0012	mg/L	0.00034	0.0012	mg/L	0.00034	28.26%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated								
Nickel,7440-02-0†	-0.2	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	>999.9%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated								
Potassium,7440-09-7†	-98.9	-0.0223	mg/L	0.04504	-0.0223	mg/L	0.04504	201.90%
QC value within limits for Potassium,7440-09-7 Recovery = Not calculated								
Selenium,7782-49-2†	3.8	0.0030	mg/L	0.00241	0.0030	mg/L	0.00241	80.92%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated								
Silver,7440-22-4†	70.7	0.0002	mg/L	0.00029	0.0002	mg/L	0.00029	116.16%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated								
Sodium,7440-23-5†	105.7	0.0175	mg/L	0.02187	0.0175	mg/L	0.02187	125.20%
QC value within limits for Sodium,7440-23-5 Recovery = Not calculated								
Strontium,7440-24-6†	4.0	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	>999.9%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated								

Thallium,7440-28-0†	7.3	0.0034 mg/L	0.00381	0.0034 mg/L	0.00381	110.45%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated						
Tin,7440-31-5†	1.9	0.0004 mg/L	0.00046	0.0004 mg/L	0.00046	116.60%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated						
Titanium,7440-32-6†	144.9	0.0002 mg/L	0.00039	0.0002 mg/L	0.00039	169.92%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated						
Vanadium,7440-62-2†	27.1	0.0001 mg/L	0.00036	0.0001 mg/L	0.00036	254.89%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated						
Zinc,7440-66-6†	-18.4	-0.0003 mg/L	0.00033	-0.0003 mg/L	0.00033	128.07%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated						
Zirconium,7440-67-7†	499.3	0.0011 mg/L	0.00009	0.0011 mg/L	0.00009	8.65%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated						

All analyte(s) passed QC.
User canceled analysis.

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Analysis Begun

Start Time: 12/30/2004 3:16:06 PM
Plasma On Time: 12/30/2004 7:46:58 AM
Logged In Analyst: met
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N0050202 **Autosampler Model:** AS-91

Sample Information File: N:\Metals Sample Info\Sample Info.sif
Batch ID:
Results Data Set: 2041230 B
Results Library: C:\pe\localbox\Results\Results.mdb

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Method Loaded
Method Name: ICP5Combined
Method Last Saved: 12/30/2004 3:16:00 PM
IEC File: 2040807 IEC.iec
MSF File:
Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Aluminum,7429-90-5	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Antimony,7440-36-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Arsenic,7440-38-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Barium,7440-39-3	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Beryllium,7440-41-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Boron,7440-42-8	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Cadmium,7440-43-9	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Calcium,7440-70-2	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Cerium,	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	No
Chromium,7440-47-3	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Cobalt,7440-48-4	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Copper,7440-50-8	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Iron,7439-89-6	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Lead,7439-92-1	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Lithium,7439-93-2	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Magnesium,7439-95-4	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5A	Yes
Manganese,7439-96-5	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Molybdenum,7439-98-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Nickel,7440-02-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Phosphorus,7723-14-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	No
Potassium,7440-09-7	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Selenium,7782-49-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Silicon,7440-21-3	Lin, Calc Int	Peak Height	Radial	Yttrium,7440-65-5R	No
Silver,7440-22-4	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Sodium,7440-23-5	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5R	Yes
Strontium,7440-24-6	Lin, Calc Int	Peak Area	Radial	Yttrium,7440-65-5A	Yes
Thallium,7440-28-0	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Tin,7440-31-5	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Titanium,7440-32-6	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Vanadium,7440-62-2	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Zinc,7440-66-6	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Zirconium,7440-67-7	Lin, Calc Int	Peak Area	Axial	Yttrium,7440-65-5A	Yes
Scandium-IS	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yttrium,7440-65-5A	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yttrium,7440-65-5R	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Ar 420.067 R	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Ar 363.268 A	Lin, Calc Int	Peak Area	Axial	n/a	n/a

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Sequence No.: 1
Autosampler Location: 17
Sample ID: 214990
Date Collected: 12/30/2004 3:16:07 PM
Nebulizer Back Pressure: 197.0 kPa
Nebulizer Flow: 0.52 L/min
Analyst:
Data Type: Original
Initial Sample Wt: 1.25 g
Initial Sample Vol:
Dilution: 1X
Sample Prep Vol: 50 mL

Mean Data: 214990

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5855684.8	102.02	%	0.276				0.27%
Yttrium,7440-65-5A	2998616.3	101.52	%	0.259				0.26%

Yttrium,7440-65-5R	195415.3	99.652 %	3.7369			3.75%
Ar 420.067 R	1749080.2	97.393 %	0.3302			0.34%
Ar 363.268 A	59257.1	100.04 %	0.266			0.27%
Aluminum,7429-90-5†	26.8	0.0334 mg/L	0.03740	1.3368 mg/kg	1.49619	111.92%
Antimony,7440-36-0†	3.1	0.0019 mg/L	0.00377	0.0759 mg/kg	0.15060	198.32%
Arsenic,7440-38-2†	-2.0	-0.0017 mg/L	0.00065	-0.0698 mg/kg	0.02612	37.44%
Barium,7440-39-3†	21.1	0.0002 mg/L	0.00006	0.0061 mg/kg	0.00247	40.77%
Beryllium,7440-41-7†	215.0	0.0000 mg/L	0.00002	0.0020 mg/kg	0.00065	32.69%
Boron,7440-42-8†	979.4	0.0291 mg/L	0.00249	1.1625 mg/kg	0.09969	8.58%
Cadmium,7440-43-9†	3.1	0.0000 mg/L	0.00004	0.0010 mg/kg	0.00170	171.29%
Calcium,7440-70-2†	62.5	0.0097 mg/L	0.00095	0.3882 mg/kg	0.03803	9.80%
Chromium,7440-47-3†	-102.3	-0.0007 mg/L	0.00041	-0.0289 mg/kg	0.01653	57.22%
Cobalt,7440-48-4†	-12.0	-0.0003 mg/L	0.00015	-0.0110 mg/kg	0.00595	54.33%
Copper,7440-50-8†	136.6	0.0005 mg/L	0.00033	0.0202 mg/kg	0.01320	65.53%
Iron,7439-89-6†	15.7	0.0028 mg/L	0.00527	0.1112 mg/kg	0.21062	189.46%
Lead,7439-92-1†	0.3	0.0000 mg/L	0.00150	0.0011 mg/kg	0.06016	>999.9%
Lithium,7439-93-2†	12.2	0.0001 mg/L	0.00053	0.0026 mg/kg	0.02119	824.98%
Magnesium,7439-95-4†	-0.4	-0.0004 mg/L	0.01514	-0.0141 mg/kg	0.60573	>999.9%
Manganese,7439-96-5†	313.0	0.0004 mg/L	0.00006	0.0160 mg/kg	0.00256	15.98%
Molybdenum,7439-98-7†	6.7	0.0004 mg/L	0.00044	0.0174 mg/kg	0.01774	101.81%
Nickel,7440-02-0†	45.2	0.0008 mg/L	0.00032	0.0314 mg/kg	0.01273	40.55%
Potassium,7440-09-7†	268.3	0.0605 mg/L	0.06305	2.4203 mg/kg	2.52191	104.20%
Selenium,7782-49-2†	2.7	0.0021 mg/L	0.00499	0.0826 mg/kg	0.19960	241.70%
Silver,7440-22-4†	68.2	0.0002 mg/L	0.00012	0.0096 mg/kg	0.00493	51.36%
Sodium,7440-23-5†	353.9	0.0585 mg/L	0.02875	2.3397 mg/kg	1.15009	49.15%
Strontium,7440-24-6†	-49.5	-0.0001 mg/L	0.00013	-0.0057 mg/kg	0.00503	88.49%
Thallium,7440-28-0†	5.0	0.0024 mg/L	0.00061	0.0956 mg/kg	0.02446	25.58%
Tin,7440-31-5†	105.8	0.0217 mg/L	0.00103	0.8695 mg/kg	0.04139	4.76%
Titanium,7440-32-6†	120.9	0.0002 mg/L	0.00026	0.0077 mg/kg	0.01027	134.22%
Vanadium,7440-62-2†	30.0	0.0002 mg/L	0.00021	0.0063 mg/kg	0.00839	134.25%
Zinc,7440-66-6†	22.4	0.0003 mg/L	0.00027	0.0123 mg/kg	0.01080	88.15%
Zirconium,7440-67-7†	167.3	0.0004 mg/L	0.00030	0.0142 mg/kg	0.01187	83.47%

Sequence No.: 2
Sample ID: 214991
Nebulizer Back Pressure: 198.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 18
Date Collected: 12/30/2004 3:23:07 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 214991

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5726030.0	99.764	%	1.0932				1.10%
Yttrium,7440-65-5A	2901727.7	98.241	%	1.0269				1.05%
Yttrium,7440-65-5R	191122.0	97.463	%	0.2828				0.29%
Ar 420.067 R	1779004.4	99.059	%	0.1275				0.13%
Ar 363.268 A	58348.9	98.510	%	0.7217				0.73%
Aluminum,7429-90-5†	4210.0	5.2519	mg/L	0.04801	210.08	mg/kg	1.920	0.91%
Antimony,7440-36-0†	851.2	0.4978	mg/L	0.00533	19.910	mg/kg	0.2132	1.07%
Arsenic,7440-38-2†	588.0	0.5064	mg/L	0.00579	20.254	mg/kg	0.2317	1.14%
Barium,7440-39-3†	70589.3	0.5072	mg/L	0.00351	20.288	mg/kg	0.1404	0.69%
Beryllium,7440-41-7†	2133775.8	0.4952	mg/L	0.00495	19.806	mg/kg	0.1978	1.00%
Boron,7440-42-8†	84137.9	2.5012	mg/L	0.01261	100.05	mg/kg	0.504	0.50%
Cadmium,7440-43-9†	61849.0	0.5022	mg/L	0.00476	20.087	mg/kg	0.1903	0.95%
Calcium,7440-70-2†	33361.8	5.1816	mg/L	0.04080	207.26	mg/kg	1.632	0.79%
Chromium,7440-47-3†	72951.2	0.5109	mg/L	0.00320	20.434	mg/kg	0.1281	0.63%
Cobalt,7440-48-4†	22655.9	0.5154	mg/L	0.00419	20.614	mg/kg	0.1675	0.81%
Copper,7440-50-8†	137391.0	0.5070	mg/L	0.00328	20.281	mg/kg	0.1314	0.65%
Iron,7439-89-6†	29301.1	5.2097	mg/L	0.04171	208.39	mg/kg	1.668	0.80%
Lead,7439-92-1†	6319.0	0.5149	mg/L	0.00810	20.597	mg/kg	0.3242	1.57%
Lithium,7439-93-2†	93316.3	0.4897	mg/L	0.00056	19.588	mg/kg	0.0225	0.11%
Magnesium,7439-95-4†	6653.3	5.4984	mg/L	0.09862	219.94	mg/kg	3.945	1.79%
Manganese,7439-96-5†	400562.8	0.5126	mg/L	0.00427	20.506	mg/kg	0.1708	0.83%
Molybdenum,7439-98-7†	7978.1	0.5194	mg/L	0.00692	20.778	mg/kg	0.2766	1.33%
Nickel,7440-02-0†	29524.2	0.5121	mg/L	0.00415	20.482	mg/kg	0.1661	0.81%
Potassium,7440-09-7†	42572.7	9.6000	mg/L	0.00917	384.00	mg/kg	0.367	0.10%
Selenium,7782-49-2†	655.1	0.5065	mg/L	0.00960	20.261	mg/kg	0.3840	1.90%
Silver,7440-22-4†	139992.7	0.4931	mg/L	0.00205	19.725	mg/kg	0.0820	0.42%
Sodium,7440-23-5†	116770.4	19.301	mg/L	0.0504	772.04	mg/kg	2.014	0.26%

Strontium,7440-24-6†	173472.1	0.4952 mg/L	0.00467	19.809 mg/kg	0.1867	0.94%
Thallium,7440-28-0†	1081.6	0.5195 mg/L	0.00580	20.782 mg/kg	0.2319	1.12%
Tin,7440-31-5†	2637.4	0.5438 mg/L	0.00711	21.751 mg/kg	0.2843	1.31%
Titanium,7440-32-6†	329023.9	0.5207 mg/L	0.00336	20.826 mg/kg	0.1342	0.64%
Vanadium,7440-62-2†	96627.7	0.5044 mg/L	0.00373	20.174 mg/kg	0.1491	0.74%
Zinc,7440-66-6†	35868.5	0.4946 mg/L	0.00318	19.782 mg/kg	0.1270	0.64%
Zirconium,7440-67-7†	3609.8	0.0074 mg/L	0.00202	0.2973 mg/kg	0.08089	27.21%

Sequence No.: 3
Sample ID: 20412290201
Nebulizer Back Pressure: 198.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 19
Date Collected: 12/30/2004 3:29:23 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412290201

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5850121.3	101.93	%	1.643				1.61%
Yttrium,7440-65-5A	2964736.4	100.37	%	1.453				1.45%
Yttrium,7440-65-5R	189505.8	96.639	%	1.9830				2.05%
Ar 420.067 R	1771117.7	98.620	%	0.1707				0.17%
Ar 363.268 A	58199.1	98.257	%	0.2511				0.26%
Aluminum,7429-90-5†	51016.4	63.729	mg/L	0.9023	2549.2	mg/kg	36.09	1.42%
Antimony,7440-36-0†	2.2	-0.0017	mg/L	0.00243	-0.0695	mg/kg	0.09723	140.00%
Arsenic,7440-38-2†	-10.6	-0.0264	mg/L	0.00705	-1.0546	mg/kg	0.28215	26.76%
Barium,7440-39-3†	7152.1	0.0505	mg/L	0.00074	2.0199	mg/kg	0.02975	1.47%
Beryllium,7440-41-7†	4507.1	0.0009	mg/L	0.00002	0.0361	mg/kg	0.00072	1.98%
Boron,7440-42-8†	1553.0	0.0514	mg/L	0.00552	2.0560	mg/kg	0.22060	10.73%
Cadmium,7440-43-9†	71.5	0.0004	mg/L	0.00002	0.0167	mg/kg	0.00063	3.78%
Calcium,7440-70-2†	97144.8	15.088	mg/L	0.0662	603.53	mg/kg	2.649	0.44%
Chromium,7440-47-3†	10664.6	0.0668	mg/L	0.00258	2.6707	mg/kg	0.10325	3.87%
Cobalt,7440-48-4†	193.2	0.0031	mg/L	0.00034	0.1246	mg/kg	0.01340	10.76%
Copper,7440-50-8†	3384.9	0.0129	mg/L	0.00045	0.5146	mg/kg	0.01784	3.47%
Iron,7439-89-6†	39361.4	6.9872	mg/L	0.09861	279.49	mg/kg	3.944	1.41%
Lead,7439-92-1†	1016.1	0.0881	mg/L	0.00261	3.5234	mg/kg	0.10421	2.96%
Lithium,7439-93-2†	460.7	0.0024	mg/L	0.00040	0.0974	mg/kg	0.01612	16.55%
Magnesium,7439-95-4†	886.9	0.7557	mg/L	0.03125	30.226	mg/kg	1.2498	4.13%
Manganese,7439-96-5†	23532.0	0.0311	mg/L	0.00056	1.2435	mg/kg	0.02237	1.80%
Molybdenum,7439-98-7†	50.4	0.0055	mg/L	0.00040	0.2219	mg/kg	0.01612	7.26%
Nickel,7440-02-0†	506.3	0.0083	mg/L	0.00019	0.3311	mg/kg	0.00777	2.35%
Potassium,7440-09-7†	2372.6	0.5383	mg/L	0.05756	21.531	mg/kg	2.3023	10.69%
Selenium,7782-49-2†	29.7	0.0169	mg/L	0.00213	0.6741	mg/kg	0.08508	12.62%
Silver,7440-22-4†	-223.2	-0.0010	mg/L	0.00026	-0.0414	mg/kg	0.01023	24.68%
Sodium,7440-23-5†	2747.9	0.4431	mg/L	0.00702	17.723	mg/kg	0.2809	1.59%
Strontium,7440-24-6†	14093.9	0.0391	mg/L	0.00020	1.5654	mg/kg	0.00800	0.51%
Thallium,7440-28-0†	-13.9	0.0027	mg/L	0.00404	0.1078	mg/kg	0.16169	149.99%
Tin,7440-31-5†	-12.3	-0.0007	mg/L	0.00081	-0.0288	mg/kg	0.03252	113.07%
Titanium,7440-32-6†	269935.0	0.4272	mg/L	0.00818	17.086	mg/kg	0.3274	1.92%
Vanadium,7440-62-2†	14095.6	0.0734	mg/L	0.00185	2.9373	mg/kg	0.07416	2.52%
Zinc,7440-66-6†	4181.9	0.0573	mg/L	0.00117	2.2909	mg/kg	0.04671	2.04%
Zirconium,7440-67-7†	14877.3	0.0314	mg/L	0.00121	1.2557	mg/kg	0.04822	3.84%

Sequence No.: 4
Sample ID: 214992
Nebulizer Back Pressure: 198.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 20
Date Collected: 12/30/2004 3:35:42 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 214992

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5650454.2	98.448	%	2.9297				2.98%
Yttrium,7440-65-5A	2858864.0	96.790	%	2.7132				2.80%
Yttrium,7440-65-5R	195721.9	99.809	%	0.9952				1.00%
Ar 420.067 R	1745308.9	97.183	%	0.1995				0.21%
Ar 363.268 A	58356.8	98.524	%	0.3095				0.31%

Aluminum,7429-90-5†	51384.8	64.189 mg/L	2.0150	2567.6 mg/kg	80.60	3.14%
Antimony,7440-36-0†	-1.9	-0.0046 mg/L	0.00255	-0.1820 mg/kg	0.10212	56.11%
Arsenic,7440-38-2†	-15.2	-0.0310 mg/L	0.00137	-1.2403 mg/kg	0.05483	4.42%
Barium,7440-39-3†	6522.4	0.0461 mg/L	0.00145	1.8443 mg/kg	0.05817	3.15%
Beryllium,7440-41-7†	3888.7	0.0007 mg/L	0.00003	0.0294 mg/kg	0.00117	3.98%
Boron,7440-42-8†	907.1	0.0299 mg/L	0.00199	1.1940 mg/kg	0.07962	6.67%
Cadmium,7440-43-9†	58.1	0.0005 mg/L	0.00013	0.0191 mg/kg	0.00505	26.47%
Calcium,7440-70-2†	86249.1	13.396 mg/L	0.0480	535.84 mg/kg	1.919	0.36%
Chromium,7440-47-3†	10960.6	0.0688 mg/L	0.00373	2.7521 mg/kg	0.14918	5.42%
Cobalt,7440-48-4†	194.9	0.0031 mg/L	0.00031	0.1222 mg/kg	0.01257	10.29%
Copper,7440-50-8†	3319.5	0.0123 mg/L	0.00043	0.4904 mg/kg	0.01726	3.52%
Iron,7439-89-6†	20785.4	3.6839 mg/L	0.11118	147.36 mg/kg	4.447	3.02%
Lead,7439-92-1†	910.8	0.0796 mg/L	0.00249	3.1825 mg/kg	0.09960	3.13%
Lithium,7439-93-2†	263.3	0.0014 mg/L	0.00034	0.0561 mg/kg	0.01366	24.35%
Magnesium,7439-95-4†	652.5	0.5499 mg/L	0.02257	21.995 mg/kg	0.9028	4.10%
Manganese,7439-96-5†	16803.1	0.0224 mg/L	0.00042	0.8954 mg/kg	0.01681	1.88%
Molybdenum,7439-98-7†	36.4	0.0047 mg/L	0.00088	0.1862 mg/kg	0.03517	18.89%
Nickel,7440-02-0†	456.5	0.0074 mg/L	0.00026	0.2962 mg/kg	0.01029	3.47%
Potassium,7440-09-7†	2185.2	0.4960 mg/L	0.01999	19.839 mg/kg	0.7997	4.03%
Selenium,7782-49-2†	31.7	0.0174 mg/L	0.00401	0.6955 mg/kg	0.16021	23.03%
Silver,7440-22-4†	-55.5	-0.0005 mg/L	0.00041	-0.0209 mg/kg	0.01642	78.60%
Sodium,7440-23-5†	2293.2	0.3680 mg/L	0.00974	14.719 mg/kg	0.3898	2.65%
Strontium,7440-24-6†	13245.5	0.0368 mg/L	0.00144	1.4739 mg/kg	0.05751	3.90%
Thallium,7440-28-0†	-21.5	-0.0002 mg/L	0.00390	-0.0084 mg/kg	0.15619	>999.9%
Tin,7440-31-5†	26.7	0.0075 mg/L	0.00188	0.3004 mg/kg	0.07500	24.96%
Titanium,7440-32-6†	317775.9	0.5029 mg/L	0.00942	20.115 mg/kg	0.3766	1.87%
Vanadium,7440-62-2†	14319.1	0.0747 mg/L	0.00274	2.9869 mg/kg	0.10978	3.68%
Zinc,7440-66-6†	3726.4	0.0513 mg/L	0.00170	2.0518 mg/kg	0.06819	3.32%
Zirconium,7440-67-7†	14436.4	0.0304 mg/L	0.00138	1.2156 mg/kg	0.05503	4.53%

Sequence No.: 5
Sample ID: 214993
Nebulizer Back Pressure: 198.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 21
Date Collected: 12/30/2004 3:42:06 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 214993

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5826940.6	101.52	%	1.510				1.49%
Yttrium,7440-65-5A	2939586.4	99.523	%	1.5613				1.57%
Yttrium,7440-65-5R	187770.9	95.754	%	3.5734				3.73%
Ar 420.067 R	1712186.3	95.338	%	0.1616				0.17%
Ar 363.268 A	58711.7	99.123	%	0.3032				0.31%
Aluminum,7429-90-5†	63898.9	79.814	mg/L	3.0515	3192.6	mg/kg	122.06	3.82%
Antimony,7440-36-0†	756.5	0.4366	mg/L	0.00186	17.466	mg/kg	0.0745	0.43%
Arsenic,7440-38-2†	604.4	0.4992	mg/L	0.00787	19.967	mg/kg	0.3148	1.58%
Barium,7440-39-3†	80412.2	0.5773	mg/L	0.00793	23.092	mg/kg	0.3171	1.37%
Beryllium,7440-41-7†	2307991.4	0.5354	mg/L	0.01061	21.418	mg/kg	0.4242	1.98%
Boron,7440-42-8†	86629.0	2.5784	mg/L	0.04506	103.14	mg/kg	1.803	1.75%
Cadmium,7440-43-9†	65095.8	0.5286	mg/L	0.00767	21.142	mg/kg	0.3068	1.45%
Calcium,7440-70-2†	74983.2	11.645	mg/L	0.4645	465.81	mg/kg	18.578	3.99%
Chromium,7440-47-3†	87323.6	0.6023	mg/L	0.00936	24.092	mg/kg	0.3746	1.55%
Cobalt,7440-48-4†	24098.6	0.5469	mg/L	0.00658	21.878	mg/kg	0.2631	1.20%
Copper,7440-50-8†	151111.2	0.5578	mg/L	0.00651	22.310	mg/kg	0.2604	1.17%
Iron,7439-89-6†	52968.8	9.4041	mg/L	0.34393	376.16	mg/kg	13.757	3.66%
Lead,7439-92-1†	7404.2	0.6095	mg/L	0.00611	24.378	mg/kg	0.2443	1.00%
Lithium,7439-93-2†	100874.9	0.5294	mg/L	0.02671	21.176	mg/kg	1.0684	5.05%
Magnesium,7439-95-4†	7763.3	6.4273	mg/L	0.10760	257.09	mg/kg	4.304	1.67%
Manganese,7439-96-5†	425125.5	0.5451	mg/L	0.00716	21.805	mg/kg	0.2864	1.31%
Molybdenum,7439-98-7†	8377.0	0.5481	mg/L	0.00557	21.924	mg/kg	0.2227	1.02%
Nickel,7440-02-0†	31824.3	0.5514	mg/L	0.00544	22.057	mg/kg	0.2174	0.99%
Potassium,7440-09-7†	49760.3	11.224	mg/L	0.5130	448.97	mg/kg	20.519	4.57%
Selenium,7782-49-2†	714.9	0.5444	mg/L	0.00388	21.776	mg/kg	0.1553	0.71%
Silver,7440-22-4†	145698.4	0.5129	mg/L	0.00487	20.515	mg/kg	0.1949	0.95%
Sodium,7440-23-5†	132697.9	21.922	mg/L	1.1518	876.87	mg/kg	46.074	5.25%
Strontium,7440-24-6†	196817.7	0.5614	mg/L	0.01569	22.458	mg/kg	0.6274	2.79%
Thallium,7440-28-0†	1119.0	0.5475	mg/L	0.00287	21.900	mg/kg	0.1147	0.52%
Tin,7440-31-5†	2694.9	0.5573	mg/L	0.00660	22.292	mg/kg	0.2639	1.18%

Titanium,7440-32-6†	613618.3	0.9710 mg/L	0.01679	38.841 mg/kg	0.6718	1.73%
Vanadium,7440-62-2†	116558.1	0.6083 mg/L	0.00786	24.333 mg/kg	0.3145	1.29%
Zinc,7440-66-6†	40541.1	0.5584 mg/L	0.00654	22.336 mg/kg	0.2616	1.17%
Zirconium,7440-67-7†	14771.1	0.0309 mg/L	0.00033	1.2361 mg/kg	0.01308	1.06%

Sequence No.: 6
Sample ID: 214994
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 22
Date Collected: 12/30/2004 3:49:04 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 214994

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5824084.1	101.47	%	0.544				0.54%
Yttrium,7440-65-5A	2936190.6	99.408	%	0.4879				0.49%
Yttrium,7440-65-5R	192684.2	98.260	%	0.5053				0.51%
Ar 420.067 R	1783978.4	99.336	%	0.1727				0.17%
Ar 363.268 A	58352.6	98.517	%	0.4700				0.48%
Aluminum,7429-90-5†	56677.7	70.793	mg/L	1.0214	2831.7	mg/kg	40.86	1.44%
Antimony,7440-36-0†	735.4	0.4241	mg/L	0.00331	16.966	mg/kg	0.1323	0.78%
Arsenic,7440-38-2†	583.6	0.4841	mg/L	0.00693	19.363	mg/kg	0.2772	1.43%
Barium,7440-39-3†	81438.2	0.5847	mg/L	0.00456	23.390	mg/kg	0.1825	0.78%
Beryllium,7440-41-7†	2314053.7	0.5368	mg/L	0.00469	21.474	mg/kg	0.1875	0.87%
Boron,7440-42-8†	87375.8	2.6002	mg/L	0.01825	104.01	mg/kg	0.730	0.70%
Cadmium,7440-43-9†	65227.5	0.5296	mg/L	0.00401	21.185	mg/kg	0.1605	0.76%
Calcium,7440-70-2†	70400.8	10.934	mg/L	0.1691	437.34	mg/kg	6.764	1.55%
Chromium,7440-47-3†	86948.8	0.6008	mg/L	0.00422	24.032	mg/kg	0.1686	0.70%
Cobalt,7440-48-4†	24071.1	0.5463	mg/L	0.00316	21.854	mg/kg	0.1264	0.58%
Copper,7440-50-8†	149833.2	0.5530	mg/L	0.00361	22.120	mg/kg	0.1444	0.65%
Iron,7439-89-6†	49729.4	8.8298	mg/L	0.14416	353.19	mg/kg	5.767	1.63%
Lead,7439-92-1†	7321.9	0.6020	mg/L	0.00997	24.081	mg/kg	0.3989	1.66%
Lithium,7439-93-2†	100407.5	0.5269	mg/L	0.00210	21.077	mg/kg	0.0841	0.40%
Magnesium,7439-95-4†	7588.5	6.2813	mg/L	0.06650	251.25	mg/kg	2.660	1.06%
Manganese,7439-96-5†	432170.3	0.5540	mg/L	0.00451	22.160	mg/kg	0.1806	0.81%
Molybdenum,7439-98-7†	8178.5	0.5349	mg/L	0.00706	21.394	mg/kg	0.2826	1.32%
Nickel,7440-02-0†	31515.2	0.5461	mg/L	0.00519	21.844	mg/kg	0.2077	0.95%
Potassium,7440-09-7†	48712.1	10.987	mg/L	0.0566	439.49	mg/kg	2.263	0.51%
Selenium,7782-49-2†	689.2	0.5255	mg/L	0.01027	21.019	mg/kg	0.4108	1.95%
Silver,7440-22-4†	144595.1	0.5090	mg/L	0.00365	20.361	mg/kg	0.1461	0.72%
Sodium,7440-23-5†	129903.5	21.461	mg/L	0.1288	858.45	mg/kg	5.154	0.60%
Strontium,7440-24-6†	203738.7	0.5813	mg/L	0.00453	23.251	mg/kg	0.1811	0.78%
Thallium,7440-28-0†	1097.3	0.5365	mg/L	0.01085	21.460	mg/kg	0.4340	2.02%
Tin,7440-31-5†	2622.8	0.5425	mg/L	0.01073	21.699	mg/kg	0.4290	1.98%
Titanium,7440-32-6†	617330.0	0.9769	mg/L	0.00782	39.076	mg/kg	0.3129	0.80%
Vanadium,7440-62-2†	115486.2	0.6027	mg/L	0.00448	24.110	mg/kg	0.1793	0.74%
Zinc,7440-66-6†	40683.8	0.5605	mg/L	0.00516	22.421	mg/kg	0.2064	0.92%
Zirconium,7440-67-7†	14000.1	0.0293	mg/L	0.00021	1.1702	mg/kg	0.00852	0.73%

Sequence No.: 7
Sample ID: 215323
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 23
Date Collected: 12/30/2004 3:55:24 PM
Nebulizer Flow: 0.64 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215323

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5760466.6	100.36	%	1.898				1.89%
Yttrium,7440-65-5A	2912565.8	98.608	%	1.8298				1.86%
Yttrium,7440-65-5R	188291.8	96.020	%	2.5565				2.66%
Ar 420.067 R	1787743.8	99.545	%	0.2989				0.30%
Ar 363.268 A	59306.4	100.13	%	0.346				0.35%
Aluminum,7429-90-5†	51705.3	64.582	mg/L	1.5264	2583.3	mg/kg	61.05	2.36%
Antimony,7440-36-0†	809.2	0.4696	mg/L	0.00370	18.784	mg/kg	0.1480	0.79%
Arsenic,7440-38-2†	563.7	0.4695	mg/L	0.00102	18.779	mg/kg	0.0410	0.22%

Barium,7440-39-3†	77574.6	0.5566 mg/L	0.00729	22.263 mg/kg	0.2914	1.31%
Beryllium,7440-41-7†	2178186.4	0.5053 mg/L	0.00421	20.212 mg/kg	0.1685	0.83%
Boron,7440-42-8†	83453.8	2.4858 mg/L	0.02393	99.430 mg/kg	0.9572	0.96%
Cadmium,7440-43-9†	61331.4	0.4978 mg/L	0.00602	19.913 mg/kg	0.2409	1.21%
Calcium,7440-70-2†	122895.7	19.088 mg/L	0.4585	763.51 mg/kg	18.339	2.40%
Chromium,7440-47-3†	82419.5	0.5698 mg/L	0.00736	22.792 mg/kg	0.2942	1.29%
Cobalt,7440-48-4†	22797.1	0.5172 mg/L	0.00714	20.687 mg/kg	0.2854	1.38%
Copper,7440-50-8†	142774.9	0.5272 mg/L	0.00746	21.088 mg/kg	0.2984	1.41%
Iron,7439-89-6†	65024.8	11.551 mg/L	0.2645	462.03 mg/kg	10.580	2.29%
Lead,7439-92-1†	7205.4	0.5921 mg/L	0.00675	23.684 mg/kg	0.2700	1.14%
Lithium,7439-93-2†	97022.7	0.5092 mg/L	0.01564	20.367 mg/kg	0.6254	3.07%
Magnesium,7439-95-4†	7015.9	5.8199 mg/L	0.04679	232.80 mg/kg	1.872	0.80%
Manganese,7439-96-5†	419076.4	0.5372 mg/L	0.00708	21.489 mg/kg	0.2834	1.32%
Molybdenum,7439-98-7†	7719.1	0.5047 mg/L	0.00546	20.188 mg/kg	0.2183	1.08%
Nickel,7440-02-0†	29833.9	0.5169 mg/L	0.00562	20.678 mg/kg	0.2248	1.09%
Potassium,7440-09-7†	47241.9	10.656 mg/L	0.3017	426.23 mg/kg	12.069	2.83%
Selenium,7782-49-2†	662.2	0.5063 mg/L	0.00509	20.250 mg/kg	0.2037	1.01%
Silver,7440-22-4†	137057.8	0.4826 mg/L	0.00473	19.302 mg/kg	0.1892	0.98%
Sodium,7440-23-5†	125487.7	20.732 mg/L	0.6455	829.26 mg/kg	25.821	3.11%
Strontium,7440-24-6†	189008.9	0.5386 mg/L	0.01232	21.543 mg/kg	0.4930	2.29%
Thallium,7440-28-0†	1027.8	0.5036 mg/L	0.00319	20.144 mg/kg	0.1275	0.63%
Tin,7440-31-5†	2386.3	0.4942 mg/L	0.00541	19.768 mg/kg	0.2163	1.09%
Titanium,7440-32-6†	643566.9	1.0184 mg/L	0.00895	40.736 mg/kg	0.3580	0.88%
Vanadium,7440-62-2†	110101.8	0.5746 mg/L	0.00772	22.983 mg/kg	0.3086	1.34%
Zinc,7440-66-6†	40375.1	0.5564 mg/L	0.00611	22.258 mg/kg	0.2446	1.10%
Zirconium,7440-67-7†	14694.4	0.0307 mg/L	0.00027	1.2286 mg/kg	0.01068	0.87%

Sequence No.: 8
Sample ID: 215324
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 5X

Autosampler Location: 24
Date Collected: 12/30/2004 4:02:06 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215324

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5999122.2	104.52	%	0.753				0.72%
Yttrium,7440-65-5A	3045508.8	103.11	%	0.520				0.50%
Yttrium,7440-65-5R	195853.7	99.876	%	1.1793				1.18%
Ar 420.067 R	1751563.7	97.531	%	0.1599				0.16%
Ar 363.268 A	58778.0	99.235	%	0.1351				0.14%
Aluminum,7429-90-5†	10136.7	12.663	mg/L	0.0893	2532.5	mg/kg	17.85	0.70%
Antimony,7440-36-0†	0.1	-0.0005	mg/L	0.00441	-0.0976	mg/kg	0.88158	903.15%
Arsenic,7440-38-2†	1.0	-0.0026	mg/L	0.00249	-0.5232	mg/kg	0.49758	95.11%
Barium,7440-39-3†	1452.7	0.0103	mg/L	0.00014	2.0523	mg/kg	0.02836	1.38%
Beryllium,7440-41-7†	1389.5	0.0003	mg/L	0.00001	0.0582	mg/kg	0.00270	4.64%
Boron,7440-42-8†	1784.2	0.0540	mg/L	0.00385	10.803	mg/kg	0.7698	7.13%
Cadmium,7440-43-9†	45.8	0.0003	mg/L	0.00004	0.0677	mg/kg	0.00809	11.95%
Calcium,7440-70-2†	19116.3	2.9691	mg/L	0.01429	593.82	mg/kg	2.859	0.48%
Chromium,7440-47-3†	1749.2	0.0107	mg/L	0.00064	2.1342	mg/kg	0.12842	6.02%
Cobalt,7440-48-4†	40.2	0.0006	mg/L	0.00025	0.1280	mg/kg	0.05017	39.21%
Copper,7440-50-8†	863.7	0.0033	mg/L	0.00029	0.6518	mg/kg	0.05876	9.02%
Iron,7439-89-6†	7935.5	1.4087	mg/L	0.00892	281.74	mg/kg	1.783	0.63%
Lead,7439-92-1†	185.8	0.0162	mg/L	0.00189	3.2383	mg/kg	0.37826	11.68%
Lithium,7439-93-2†	137.9	0.0007	mg/L	0.00027	0.1455	mg/kg	0.05423	37.27%
Magnesium,7439-95-4†	188.5	0.1604	mg/L	0.01992	32.073	mg/kg	3.9837	12.42%
Manganese,7439-96-5†	4897.3	0.0065	mg/L	0.00012	1.2917	mg/kg	0.02303	1.78%
Molybdenum,7439-98-7†	27.9	0.0023	mg/L	0.00090	0.4533	mg/kg	0.18049	39.82%
Nickel,7440-02-0†	111.6	0.0018	mg/L	0.00034	0.3666	mg/kg	0.06793	18.53%
Potassium,7440-09-7†	794.3	0.1797	mg/L	0.03051	35.948	mg/kg	6.1015	16.97%
Selenium,7782-49-2†	3.5	0.0015	mg/L	0.00376	0.2949	mg/kg	0.75261	255.21%
Silver,7440-22-4†	-87.5	-0.0004	mg/L	0.00007	-0.0716	mg/kg	0.01484	20.71%
Sodium,7440-23-5†	574.2	0.0927	mg/L	0.01122	18.542	mg/kg	2.2438	12.10%
Strontium,7440-24-6†	2821.6	0.0078	mg/L	0.00009	1.5678	mg/kg	0.01837	1.17%
Thallium,7440-28-0†	3.4	0.0035	mg/L	0.00317	0.7053	mg/kg	0.63473	90.00%
Tin,7440-31-5†	-7.2	-0.0011	mg/L	0.00050	-0.2198	mg/kg	0.09979	45.41%
Titanium,7440-32-6†	59187.0	0.0937	mg/L	0.00290	18.732	mg/kg	0.5791	3.09%
Vanadium,7440-62-2†	2785.9	0.0145	mg/L	0.00017	2.9022	mg/kg	0.03447	1.19%
Zinc,7440-66-6†	825.8	0.0113	mg/L	0.00020	2.2603	mg/kg	0.03995	1.77%

Zirconium,7440-67-7†	2430.1	0.0051 mg/L	0.00034	1.0228 mg/kg	0.06832	6.68%

Sequence No.: 9
Sample ID: 215199
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 25
Date Collected: 12/30/2004 4:08:20 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215199

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5977181.6	104.14	%	1.312				1.26%
Yttrium,7440-65-5A	3057766.1	103.52	%	1.166				1.13%
Yttrium,7440-65-5R	198904.0	101.43	%	0.844				0.83%
Ar 420.067 R	1720338.7	95.792	%	0.1006				0.11%
Ar 363.268 A	58855.7	99.366	%	0.3123				0.31%
Aluminum,7429-90-5†	45.7	0.0570	mg/L	0.00558	2.2818	mg/kg	0.22300	9.77%
Antimony,7440-36-0†	-1.2	-0.0007	mg/L	0.00647	-0.0262	mg/kg	0.25882	988.44%
Arsenic,7440-38-2†	2.0	0.0017	mg/L	0.00190	0.0678	mg/kg	0.07611	112.33%
Barium,7440-39-3†	22.2	0.0002	mg/L	0.00009	0.0063	mg/kg	0.00344	54.31%
Beryllium,7440-41-7†	124.6	0.0000	mg/L	0.00002	0.0012	mg/kg	0.00097	84.34%
Boron,7440-42-8†	921.0	0.0273	mg/L	0.00158	1.0934	mg/kg	0.06307	5.77%
Cadmium,7440-43-9†	10.5	0.0001	mg/L	0.00006	0.0034	mg/kg	0.00222	64.96%
Calcium,7440-70-2†	106.3	0.0165	mg/L	0.00295	0.6601	mg/kg	0.11803	17.88%
Chromium,7440-47-3†	-224.2	-0.0016	mg/L	0.00039	-0.0632	mg/kg	0.01569	24.82%
Cobalt,7440-48-4†	-11.4	-0.0003	mg/L	0.00005	-0.0105	mg/kg	0.00218	20.81%
Copper,7440-50-8†	133.2	0.0005	mg/L	0.00001	0.0197	mg/kg	0.00036	1.82%
Iron,7439-89-6†	62.4	0.0111	mg/L	0.00072	0.4432	mg/kg	0.02871	6.48%
Lead,7439-92-1†	-12.4	-0.0010	mg/L	0.00069	-0.0402	mg/kg	0.02760	68.59%
Lithium,7439-93-2†	34.8	0.0002	mg/L	0.00032	0.0073	mg/kg	0.01261	172.79%
Magnesium,7439-95-4†	7.2	0.0059	mg/L	0.00284	0.2374	mg/kg	0.11348	47.81%
Manganese,7439-96-5†	378.1	0.0005	mg/L	0.00004	0.0194	mg/kg	0.00146	7.54%
Molybdenum,7439-98-7†	4.6	0.0003	mg/L	0.00020	0.0121	mg/kg	0.00814	67.04%
Nickel,7440-02-0†	10.9	0.0002	mg/L	0.00028	0.0075	mg/kg	0.01121	148.70%
Potassium,7440-09-7†	407.8	0.0919	mg/L	0.03016	3.6778	mg/kg	1.20649	32.80%
Selenium,7782-49-2†	1.1	0.0009	mg/L	0.00189	0.0349	mg/kg	0.07562	216.81%
Silver,7440-22-4†	-164.0	-0.0006	mg/L	0.00041	-0.0231	mg/kg	0.01621	70.15%
Sodium,7440-23-5†	-67.1	-0.0111	mg/L	0.01244	-0.4442	mg/kg	0.49776	112.06%
Strontium,7440-24-6†	-118.7	-0.0003	mg/L	0.00014	-0.0136	mg/kg	0.00560	41.16%
Thallium,7440-28-0†	10.6	0.0050	mg/L	0.00549	0.2012	mg/kg	0.21969	109.21%
Tin,7440-31-5†	110.5	0.0227	mg/L	0.00046	0.9079	mg/kg	0.01839	2.03%
Titanium,7440-32-6†	25.9	0.0000	mg/L	0.00048	0.0016	mg/kg	0.01925	>999.9%
Vanadium,7440-62-2†	37.4	0.0002	mg/L	0.00018	0.0078	mg/kg	0.00728	93.78%
Zinc,7440-66-6†	8.8	0.0001	mg/L	0.00017	0.0048	mg/kg	0.00690	144.80%
Zirconium,7440-67-7†	-474.5	-0.0010	mg/L	0.00010	-0.0403	mg/kg	0.00392	9.73%

Sequence No.: 10
Sample ID: 215200
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 26
Date Collected: 12/30/2004 4:15:21 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215200

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5802042.4	101.09	%	0.634				0.63%
Yttrium,7440-65-5A	2938804.4	99.496	%	0.6401				0.64%
Yttrium,7440-65-5R	197098.1	100.51	%	0.682				0.68%
Ar 420.067 R	1792409.9	99.805	%	0.0866				0.09%
Ar 363.268 A	59354.9	100.21	%	0.083				0.08%
Aluminum,7429-90-5†	4263.6	5.3187	mg/L	0.03505	212.75	mg/kg	1.402	0.66%
Antimony,7440-36-0†	828.2	0.4837	mg/L	0.01055	19.348	mg/kg	0.4219	2.18%
Arsenic,7440-38-2†	601.0	0.5175	mg/L	0.00632	20.702	mg/kg	0.2528	1.22%
Barium,7440-39-3†	72564.3	0.5214	mg/L	0.00205	20.856	mg/kg	0.0820	0.39%
Beryllium,7440-41-7†	2226959.8	0.5168	mg/L	0.00464	20.671	mg/kg	0.1856	0.90%
Boron,7440-42-8†	84238.9	2.5043	mg/L	0.01445	100.17	mg/kg	0.578	0.58%

Cadmium,7440-43-9†	63320.2	0.5141 mg/L	0.00270	20.565 mg/kg	0.1080	0.53%
Calcium,7440-70-2†	33903.1	5.2657 mg/L	0.01507	210.63 mg/kg	0.603	0.29%
Chromium,7440-47-3†	74152.9	0.5193 mg/L	0.00363	20.771 mg/kg	0.1451	0.70%
Cobalt,7440-48-4†	23314.3	0.5303 mg/L	0.00298	21.214 mg/kg	0.1192	0.56%
Copper,7440-50-8†	141308.0	0.5215 mg/L	0.00150	20.859 mg/kg	0.0600	0.29%
Iron,7439-89-6†	29803.0	5.2989 mg/L	0.01793	211.96 mg/kg	0.717	0.34%
Lead,7439-92-1†	6426.7	0.5237 mg/L	0.00753	20.948 mg/kg	0.3010	1.44%
Lithium,7439-93-2†	95709.1	0.5023 mg/L	0.00117	20.091 mg/kg	0.0466	0.23%
Magnesium,7439-95-4†	6820.3	5.6362 mg/L	0.07909	225.45 mg/kg	3.163	1.40%
Manganese,7439-96-5†	413768.8	0.5295 mg/L	0.00453	21.181 mg/kg	0.1811	0.85%
Molybdenum,7439-98-7†	7992.4	0.5204 mg/L	0.00641	20.815 mg/kg	0.2563	1.23%
Nickel,7440-02-0†	30373.7	0.5268 mg/L	0.00131	21.072 mg/kg	0.0526	0.25%
Potassium,7440-09-7†	44438.3	10.021 mg/L	0.0384	400.83 mg/kg	1.535	0.38%
Selenium,7782-49-2†	650.5	0.5030 mg/L	0.00786	20.118 mg/kg	0.3143	1.56%
Silver,7440-22-4†	144386.4	0.5086 mg/L	0.00061	20.344 mg/kg	0.0245	0.12%
Sodium,7440-23-5†	120787.5	19.965 mg/L	0.0184	798.60 mg/kg	0.736	0.09%
Strontium,7440-24-6†	183940.7	0.5251 mg/L	0.00586	21.005 mg/kg	0.2343	1.12%
Thallium,7440-28-0†	1098.9	0.5279 mg/L	0.00852	21.116 mg/kg	0.3406	1.61%
Tin,7440-31-5†	2600.4	0.5362 mg/L	0.00714	21.449 mg/kg	0.2857	1.33%
Titanium,7440-32-6†	336195.2	0.5320 mg/L	0.00434	21.280 mg/kg	0.1738	0.82%
Vanadium,7440-62-2†	99097.8	0.5173 mg/L	0.00182	20.690 mg/kg	0.0729	0.35%
Zinc,7440-66-6†	37035.8	0.5107 mg/L	0.00200	20.427 mg/kg	0.0802	0.39%
Zirconium,7440-67-7†	-202.4	-0.0007 mg/L	0.00020	-0.0270 mg/kg	0.00787	29.13%

Sequence No.: 11
Sample ID: 1800
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 12/30/2004 4:21:39 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5679442.4	98.953	%	0.6708				0.68%
Yttrium,7440-65-5A	2878582.3	97.457	%	0.9769				1.00%
Yttrium,7440-65-5R	187465.5	95.598	%	2.9110				3.05%
Ar 420.067 R	1744755.1	97.152	%	0.0810				0.08%
Ar 363.268 A	59415.5	100.31	%	0.297				0.30%
Aluminum,7429-90-5†	4244.9	5.2956	mg/L	0.10817	5.2956	mg/L	0.10817	2.04%
QC value within limits for Aluminum,7429-90-5 Recovery = 105.91%								
Antimony,7440-36-0†	829.8	0.4852	mg/L	0.00491	0.4852	mg/L	0.00491	1.01%
QC value within limits for Antimony,7440-36-0 Recovery = 97.05%								
Arsenic,7440-38-2†	571.9	0.4925	mg/L	0.00945	0.4925	mg/L	0.00945	1.92%
QC value within limits for Arsenic,7440-38-2 Recovery = 98.51%								
Barium,7440-39-3†	69728.0	0.5010	mg/L	0.00126	0.5010	mg/L	0.00126	0.25%
QC value within limits for Barium,7440-39-3 Recovery = 100.20%								
Beryllium,7440-41-7†	2150811.4	0.4991	mg/L	0.00136	0.4991	mg/L	0.00136	0.27%
QC value within limits for Beryllium,7440-41-7 Recovery = 99.82%								
Boron,7440-42-8†	84112.6	2.5004	mg/L	0.01092	2.5004	mg/L	0.01092	0.44%
QC value within limits for Boron,7440-42-8 Recovery = 100.02%								
Cadmium,7440-43-9†	60801.8	0.4937	mg/L	0.00216	0.4937	mg/L	0.00216	0.44%
QC value within limits for Cadmium,7440-43-9 Recovery = 98.73%								
Calcium,7440-70-2†	33236.1	5.1621	mg/L	0.09595	5.1621	mg/L	0.09595	1.86%
QC value within limits for Calcium,7440-70-2 Recovery = 103.24%								
Chromium,7440-47-3†	71176.5	0.4984	mg/L	0.00099	0.4984	mg/L	0.00099	0.20%
QC value within limits for Chromium,7440-47-3 Recovery = 99.68%								
Cobalt,7440-48-4†	22229.5	0.5057	mg/L	0.00084	0.5057	mg/L	0.00084	0.17%
QC value within limits for Cobalt,7440-48-4 Recovery = 101.14%								
Copper,7440-50-8†	134881.9	0.4978	mg/L	0.00083	0.4978	mg/L	0.00083	0.17%
QC value within limits for Copper,7440-50-8 Recovery = 99.56%								
Iron,7439-89-6†	29259.7	5.2023	mg/L	0.09492	5.2023	mg/L	0.09492	1.82%
QC value within limits for Iron,7439-89-6 Recovery = 104.05%								
Lead,7439-92-1†	6151.5	0.5013	mg/L	0.00717	0.5013	mg/L	0.00717	1.43%
QC value within limits for Lead,7439-92-1 Recovery = 100.26%								
Lithium,7439-93-2†	94122.1	0.4939	mg/L	0.01594	0.4939	mg/L	0.01594	3.23%
QC value within limits for Lithium,7439-93-2 Recovery = 98.79%								
Magnesium,7439-95-4†	6429.4	5.3140	mg/L	0.10827	5.3140	mg/L	0.10827	2.04%
QC value within limits for Magnesium,7439-95-4 Recovery = 106.28%								
Manganese,7439-96-5†	394208.7	0.5045	mg/L	0.00105	0.5045	mg/L	0.00105	0.21%

QC value within limits for Manganese,7439-96-5 Recovery = 100.90%
Molybdenum,7439-98-7† 7591.2 0.4943 mg/L 0.00671 0.4943 mg/L 0.00671 1.36%
QC value within limits for Molybdenum,7439-98-7 Recovery = 98.85%
Nickel,7440-02-0† 28910.4 0.5014 mg/L 0.00120 0.5014 mg/L 0.00120 0.24%
QC value within limits for Nickel,7440-02-0 Recovery = 100.28%
Potassium,7440-09-7† 42123.0 9.4986 mg/L 0.28475 9.4986 mg/L 0.28475 3.00%
QC value within limits for Potassium,7440-09-7 Recovery = 94.99%
Selenium,7782-49-2† 626.5 0.4844 mg/L 0.01525 0.4844 mg/L 0.01525 3.15%
QC value within limits for Selenium,7782-49-2 Recovery = 96.88%
Silver,7440-22-4† 140518.4 0.4950 mg/L 0.00175 0.4950 mg/L 0.00175 0.35%
QC value within limits for Silver,7440-22-4 Recovery = 99.00%
Sodium,7440-23-5† 120118.7 19.854 mg/L 0.6278 19.854 mg/L 0.6278 3.16%
QC value within limits for Sodium,7440-23-5 Recovery = 99.27%
Strontium,7440-24-6† 178470.3 0.5095 mg/L 0.00442 0.5095 mg/L 0.00442 0.87%
QC value within limits for Strontium,7440-24-6 Recovery = 101.90%
Thallium,7440-28-0† 1048.2 0.5035 mg/L 0.00510 0.5035 mg/L 0.00510 1.01%
QC value within limits for Thallium,7440-28-0 Recovery = 100.70%
Tin,7440-31-5† 2392.4 0.4934 mg/L 0.00897 0.4934 mg/L 0.00897 1.82%
QC value within limits for Tin,7440-31-5 Recovery = 98.68%
Titanium,7440-32-6† 316876.8 0.5014 mg/L 0.00089 0.5014 mg/L 0.00089 0.18%
QC value within limits for Titanium,7440-32-6 Recovery = 100.29%
Vanadium,7440-62-2† 94835.1 0.4950 mg/L 0.00116 0.4950 mg/L 0.00116 0.23%
QC value within limits for Vanadium,7440-62-2 Recovery = 99.00%
Zinc,7440-66-6† 36328.2 0.5010 mg/L 0.00095 0.5010 mg/L 0.00095 0.19%
QC value within limits for Zinc,7440-66-6 Recovery = 100.21%
Zirconium,7440-67-7† 229594.3 0.4877 mg/L 0.00201 0.4877 mg/L 0.00201 0.41%
QC value within limits for Zirconium,7440-67-7 Recovery = 97.54%
All analyte(s) passed QC.

Sequence No.: 12
Sample ID: 1900
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/30/2004 4:28:10 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
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
Scandium-IS	5670981.8	98.805	%	1.5057				1.52%
Yttrium,7440-65-5A	2915817.1	98.718	%	1.6283				1.65%
Yttrium,7440-65-5R	200246.1	102.12	%	1.204				1.18%
Ar 420.067 R	1775051.5	98.839	%	0.0728				0.07%
Ar 363.268 A	58200.8	98.260	%	0.6958				0.71%
Aluminum,7429-90-5†	21.8	0.0273	mg/L	0.00250	0.0273	mg/L	0.00250	9.16%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated								
Antimony,7440-36-0†	4.1	0.0024	mg/L	0.00179	0.0024	mg/L	0.00179	73.16%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated								
Arsenic,7440-38-2†	2.9	0.0025	mg/L	0.00391	0.0025	mg/L	0.00391	156.39%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated								
Barium,7440-39-3†	-1.4	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	807.19%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated								
Beryllium,7440-41-7†	239.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	30.59%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated								
Boron,7440-42-8†	1811.9	0.0538	mg/L	0.00378	0.0538	mg/L	0.00378	7.04%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated								
Cadmium,7440-43-9†	3.4	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	100.24%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated								
Calcium,7440-70-2†	21.1	0.0033	mg/L	0.00335	0.0033	mg/L	0.00335	102.08%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated								
Chromium,7440-47-3†	-23.6	-0.0002	mg/L	0.00051	-0.0002	mg/L	0.00051	298.89%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated								
Cobalt,7440-48-4†	2.3	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	266.71%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated								
Copper,7440-50-8†	87.2	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	44.31%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated								
Iron,7439-89-6†	52.1	0.0093	mg/L	0.00222	0.0093	mg/L	0.00222	23.96%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated								
Lead,7439-92-1†	-6.3	-0.0005	mg/L	0.00079	-0.0005	mg/L	0.00079	154.10%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated								

Lithium,7439-93-2†	71.7	0.0004 mg/L	0.00093	0.0004 mg/L	0.00093	247.14%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated						
Magnesium,7439-95-4†	-4.5	-0.0037 mg/L	0.01168	-0.0037 mg/L	0.01168	318.04%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated						
Manganese,7439-96-5†	78.0	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	45.99%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated						
Molybdenum,7439-98-7†	15.2	0.0010 mg/L	0.00072	0.0010 mg/L	0.00072	72.91%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated						
Nickel,7440-02-0†	26.8	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	38.81%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated						
Potassium,7440-09-7†	315.1	0.0711 mg/L	0.01537	0.0711 mg/L	0.01537	21.64%
QC value within limits for Potassium,7440-09-7 Recovery = Not calculated						
Selenium,7782-49-2†	9.0	0.0070 mg/L	0.00215	0.0070 mg/L	0.00215	30.94%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated						
Silver,7440-22-4†	-67.4	-0.0002 mg/L	0.00030	-0.0002 mg/L	0.00030	124.65%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated						
Sodium,7440-23-5†	-0.3	0.0000 mg/L	0.01603	0.0000 mg/L	0.01603	>999.9%
QC value within limits for Sodium,7440-23-5 Recovery = Not calculated						
Strontium,7440-24-6†	77.9	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	65.79%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated						
Thallium,7440-28-0†	11.7	0.0056 mg/L	0.00132	0.0056 mg/L	0.00132	23.65%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated						
Tin,7440-31-5†	2.6	0.0005 mg/L	0.00164	0.0005 mg/L	0.00164	310.54%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated						
Titanium,7440-32-6†	248.0	0.0004 mg/L	0.00026	0.0004 mg/L	0.00026	67.41%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated						
Vanadium,7440-62-2†	17.7	0.0001 mg/L	0.00046	0.0001 mg/L	0.00046	501.74%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated						
Zinc,7440-66-6†	-20.0	-0.0003 mg/L	0.00014	-0.0003 mg/L	0.00014	50.08%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated						
Zirconium,7440-67-7†	412.9	0.0009 mg/L	0.00021	0.0009 mg/L	0.00021	24.42%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: 20412300204
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 27
Date Collected: 12/30/2004 4:35:05 PM
Nebulizer Flow: 0.42 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300204

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5471077.6	95.322	%	0.6898				0.72%
Yttrium,7440-65-5A	2942202.5	99.611	%	0.5514				0.55%
Yttrium,7440-65-5R	203169.5	103.61	%	1.557				1.50%
Ar 420.067 R	1705723.2	94.978	%	0.1250				0.13%
Ar 363.268 A	56098.9	94.712	%	0.1402				0.15%
Aluminum,7429-90-5†	87197.2	108.91	mg/L	1.494	4356.4	mg/kg	59.75	1.37%
Antimony,7440-36-0†	-81.3	-0.0434	mg/L	0.00321	-1.7343	mg/kg	0.12829	7.40%
Arsenic,7440-38-2†	-27.0	0.0019	mg/L	0.00891	0.0740	mg/kg	0.35651	481.46%
Barium,7440-39-3†	267777.1	1.9034	mg/L	0.01328	76.137	mg/kg	0.5313	0.70%
Beryllium,7440-41-7†	43413.5	0.0082	mg/L	0.00007	0.3300	mg/kg	0.00298	0.90%
Boron,7440-42-8†	-1968.6	0.1255	mg/L	0.00441	5.0192	mg/kg	0.17628	3.51%
Cadmium,7440-43-9†	1052.7	-0.0033	mg/L	0.00045	-0.1333	mg/kg	0.01792	13.45%
Calcium,7440-70-2†	2506993.9	389.40	mg/L	8.034	15576	mg/kg	321.3	2.06%
Chromium,7440-47-3†	21675.4	0.1349	mg/L	0.00108	5.3959	mg/kg	0.04319	0.80%
Cobalt,7440-48-4†	3386.5	0.0598	mg/L	0.00156	2.3912	mg/kg	0.06246	2.61%
Copper,7440-50-8†	57657.0	0.2320	mg/L	0.00106	9.2801	mg/kg	0.04231	0.46%
Iron,7439-89-6†	1373971.1	244.31	mg/L	5.105	9772.3	mg/kg	204.19	2.09%
Lead,7439-92-1†	1435.0	0.1279	mg/L	0.00216	5.1142	mg/kg	0.08656	1.69%
Lithium,7439-93-2†	41899.5	0.2200	mg/L	0.00320	8.8000	mg/kg	0.12802	1.45%
Magnesium,7439-95-4†	128863.1	107.06	mg/L	1.100	4282.4	mg/kg	44.00	1.03%
Manganese,7439-96-5†	2770399.4	3.5518	mg/L	0.06506	142.07	mg/kg	2.602	1.83%
Molybdenum,7439-98-7†	400.9	0.0291	mg/L	0.00064	1.1642	mg/kg	0.02558	2.20%
Nickel,7440-02-0†	6667.8	0.1123	mg/L	0.00288	4.4908	mg/kg	0.11531	2.57%
Potassium,7440-09-7†	183578.9	41.413	mg/L	0.7004	1656.5	mg/kg	28.02	1.69%
Selenium,7782-49-2†	-46.9	0.0170	mg/L	0.01424	0.6807	mg/kg	0.56943	83.65%
Silver,7440-22-4†	-9410.0	-0.0302	mg/L	0.00065	-1.2079	mg/kg	0.02601	2.15%

Sodium,7440-23-5†	15064.3	2.4462 mg/L	0.04973	97.849 mg/kg	1.9894	2.03%
Strontium,7440-24-6†	643708.9	1.8098 mg/L	0.01870	72.390 mg/kg	0.7479	1.03%
Thallium,7440-28-0†	-209.2	-0.0329 mg/L	0.01088	-1.3175 mg/kg	0.43503	33.02%
Tin,7440-31-5†	-347.0	-0.0442 mg/L	0.00113	-1.7696 mg/kg	0.04508	2.55%
Titanium,7440-32-6†	3432702.8	5.4315 mg/L	0.09444	217.26 mg/kg	3.778	1.74%
Vanadium,7440-62-2†	61831.6	0.3138 mg/L	0.00173	12.550 mg/kg	0.0693	0.55%
Zinc,7440-66-6†	144475.4	1.9892 mg/L	0.01356	79.568 mg/kg	0.5424	0.68%
Zirconium,7440-67-7†	22535.5	0.0457 mg/L	0.00199	1.8288 mg/kg	0.07976	4.36%

Sequence No.: 14
Sample ID: 20412300202
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 28
Date Collected: 12/30/2004 4:41:38 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300202

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Scandium-IS	5554303.8	96.772	%	1.0198				1.05%
Yttrium,7440-65-5A	2986391.6	101.11	%	1.028				1.02%
Yttrium,7440-65-5R	200389.8	102.19	%	1.584				1.55%
Ar 420.067 R	1710079.8	95.221	%	0.2514				0.26%
Ar 363.268 A	55936.2	94.437	%	0.1397				0.15%
Aluminum,7429-90-5†	97111.9	121.29	mg/L	2.897	4851.6	mg/kg	115.89	2.39%
Antimony,7440-36-0†	267.4	0.1539	mg/L	0.00306	6.1550	mg/kg	0.12256	1.99%
Arsenic,7440-38-2†	533.1	0.4824	mg/L	0.00635	19.295	mg/kg	0.2540	1.32%
Barium,7440-39-3†	381514.8	2.7206	mg/L	0.01494	108.82	mg/kg	0.598	0.55%
Beryllium,7440-41-7†	2110186.6	0.4878	mg/L	0.00124	19.513	mg/kg	0.0498	0.26%
Boron,7440-42-8†	71095.4	2.2984	mg/L	0.02086	91.935	mg/kg	0.8343	0.91%
Cadmium,7440-43-9†	56179.6	0.4442	mg/L	0.00173	17.769	mg/kg	0.0693	0.39%
Calcium,7440-70-2†	2617455.1	406.56	mg/L	11.982	16262	mg/kg	479.3	2.95%
Chromium,7440-47-3†	87445.0	0.5945	mg/L	0.00336	23.780	mg/kg	0.1346	0.57%
Cobalt,7440-48-4†	23074.7	0.5073	mg/L	0.00842	20.291	mg/kg	0.3369	1.66%
Copper,7440-50-8†	185647.1	0.7044	mg/L	0.00377	28.174	mg/kg	0.1508	0.54%
Iron,7439-89-6†	1406316.4	250.06	mg/L	7.770	10002	mg/kg	310.8	3.11%
Lead,7439-92-1†	6853.8	0.5702	mg/L	0.00846	22.808	mg/kg	0.3385	1.48%
Lithium,7439-93-2†	128741.0	0.6757	mg/L	0.01417	27.029	mg/kg	0.5667	2.10%
Magnesium,7439-95-4†	131319.4	109.10	mg/L	0.944	4364.2	mg/kg	37.77	0.87%
Manganese,7439-96-5†	3095844.2	3.9684	mg/L	0.00963	158.74	mg/kg	0.385	0.24%
Molybdenum,7439-98-7†	7305.6	0.4789	mg/L	0.00730	19.155	mg/kg	0.2919	1.52%
Nickel,7440-02-0†	32607.4	0.5621	mg/L	0.00234	22.483	mg/kg	0.0936	0.42%
Potassium,7440-09-7†	235229.2	53.061	mg/L	1.0122	2122.4	mg/kg	40.49	1.91%
Selenium,7782-49-2†	564.3	0.4890	mg/L	0.00838	19.561	mg/kg	0.3352	1.71%
Silver,7440-22-4†	127039.8	0.4504	mg/L	0.00205	18.016	mg/kg	0.0822	0.46%
Sodium,7440-23-5†	135218.9	22.304	mg/L	0.4695	892.15	mg/kg	18.782	2.11%
Strontium,7440-24-6†	816864.3	2.3032	mg/L	0.02270	92.128	mg/kg	0.9079	0.99%
Thallium,7440-28-0†	715.6	0.4136	mg/L	0.00920	16.544	mg/kg	0.3678	2.22%
Tin,7440-31-5†	1865.8	0.4128	mg/L	0.00798	16.511	mg/kg	0.3191	1.93%
Titanium,7440-32-6†	3806128.6	6.0224	mg/L	0.02918	240.90	mg/kg	1.167	0.48%
Vanadium,7440-62-2†	150805.2	0.7782	mg/L	0.00472	31.129	mg/kg	0.1888	0.61%
Zinc,7440-66-6†	178075.4	2.4530	mg/L	0.01384	98.119	mg/kg	0.5534	0.56%
Zirconium,7440-67-7†	21148.5	0.0425	mg/L	0.00008	1.6994	mg/kg	0.00303	0.18%

Sequence No.: 15
Sample ID: 20412300206
Nebulizer Back Pressure: 200.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 29
Date Collected: 12/30/2004 4:47:56 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300206

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Scandium-IS	5465742.5	95.229	%	2.3021				2.42%
Yttrium,7440-65-5A	2951122.0	99.913	%	2.1131				2.11%
Yttrium,7440-65-5R	198971.5	101.47	%	2.658				2.62%
Ar 420.067 R	1726145.5	96.116	%	0.0863				0.09%

Ar 363.268 A	55689.1	94.020 %	0.2261			0.24%
Aluminum,7429-90-5†	97728.4	122.06 mg/L	3.988	4882.4 mg/kg	159.50	3.27%
Antimony,7440-36-0†	263.3	0.1507 mg/L	0.00426	6.0278 mg/kg	0.17027	2.82%
Arsenic,7440-38-2†	526.8	0.4775 mg/L	0.01198	19.100 mg/kg	0.4793	2.51%
Barium,7440-39-3†	342411.7	2.4391 mg/L	0.04507	97.564 mg/kg	1.8028	1.85%
Beryllium,7440-41-7†	2147359.5	0.4963 mg/L	0.01528	19.854 mg/kg	0.6113	3.08%
Boron,7440-42-8†	72950.8	2.3555 mg/L	0.03622	94.221 mg/kg	1.4487	1.54%
Cadmium,7440-43-9†	57264.6	0.4529 mg/L	0.00747	18.117 mg/kg	0.2989	1.65%
Calcium,7440-70-2†	2621187.1	407.14 mg/L	10.571	16286 mg/kg	422.9	2.60%
Chromium,7440-47-3†	89883.5	0.6114 mg/L	0.01258	24.457 mg/kg	0.5033	2.06%
Cobalt,7440-48-4†	23301.9	0.5117 mg/L	0.00296	20.467 mg/kg	0.1182	0.58%
Copper,7440-50-8†	191547.5	0.7262 mg/L	0.01259	29.048 mg/kg	0.5037	1.73%
Iron,7439-89-6†	1420448.4	252.57 mg/L	7.876	10103 mg/kg	315.0	3.12%
Lead,7439-92-1†	6950.0	0.5781 mg/L	0.00404	23.125 mg/kg	0.1615	0.70%
Lithium,7439-93-2†	133723.8	0.7019 mg/L	0.02045	28.076 mg/kg	0.8179	2.91%
Magnesium,7439-95-4†	134408.5	111.66 mg/L	2.459	4466.3 mg/kg	98.35	2.20%
Manganese,7439-96-5†	3200506.7	4.1023 mg/L	0.11904	164.09 mg/kg	4.762	2.90%
Molybdenum,7439-98-7†	7380.7	0.4838 mg/L	0.00323	19.352 mg/kg	0.1292	0.67%
Nickel,7440-02-0†	33386.6	0.5755 mg/L	0.00930	23.019 mg/kg	0.3719	1.62%
Potassium,7440-09-7†	243665.1	54.963 mg/L	1.5425	2198.5 mg/kg	61.70	2.81%
Selenium,7782-49-2†	562.0	0.4877 mg/L	0.00487	19.506 mg/kg	0.1949	1.00%
Silver,7440-22-4†	129389.4	0.4587 mg/L	0.00799	18.348 mg/kg	0.3195	1.74%
Sodium,7440-23-5†	138179.4	22.794 mg/L	0.6740	911.74 mg/kg	26.962	2.96%
Strontium,7440-24-6†	839472.3	2.3677 mg/L	0.05058	94.710 mg/kg	2.0232	2.14%
Thallium,7440-28-0†	710.5	0.4143 mg/L	0.00407	16.572 mg/kg	0.1630	0.98%
Tin,7440-31-5†	1890.2	0.4190 mg/L	0.00090	16.759 mg/kg	0.0359	0.21%
Titanium,7440-32-6†	4015037.1	6.3530 mg/L	0.18211	254.12 mg/kg	7.284	2.87%
Vanadium,7440-62-2†	156372.5	0.8072 mg/L	0.01539	32.286 mg/kg	0.6157	1.91%
Zinc,7440-66-6†	184601.3	2.5433 mg/L	0.04295	101.73 mg/kg	1.718	1.69%
Zirconium,7440-67-7†	22274.1	0.0447 mg/L	0.00063	1.7874 mg/kg	0.02538	1.42%

Sequence No.: 16
Sample ID: 215352
Nebulizer Back Pressure: 199.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 30
Date Collected: 12/30/2004 4:54:54 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215352

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5229611.1	91.115	%	3.0954				3.40%
Yttrium,7440-65-5A	2827671.3	95.734	%	3.0014				3.14%
Yttrium,7440-65-5R	201373.8	102.69	%	0.151				0.15%
Ar 420.067 R	1670395.2	93.011	%	0.3719				0.40%
Ar 363.268 A	56355.8	95.145	%	0.2010				0.21%
Aluminum,7429-90-5†	92993.4	116.14	mg/L	0.183	4645.8	mg/kg	7.32	0.16%
Antimony,7440-36-0†	680.7	0.4022	mg/L	0.01330	16.087	mg/kg	0.5320	3.31%
Arsenic,7440-38-2†	508.4	0.4627	mg/L	0.01121	18.509	mg/kg	0.4486	2.42%
Barium,7440-39-3†	338578.6	2.4121	mg/L	0.09969	96.484	mg/kg	3.9878	4.13%
Beryllium,7440-41-7†	2061783.5	0.4766	mg/L	0.01336	19.063	mg/kg	0.5343	2.80%
Boron,7440-42-8†	74784.0	2.4092	mg/L	0.09802	96.368	mg/kg	3.9209	4.07%
Cadmium,7440-43-9†	54411.8	0.4298	mg/L	0.01858	17.191	mg/kg	0.7433	4.32%
Calcium,7440-70-2†	2540319.1	394.58	mg/L	4.467	15783	mg/kg	178.7	1.13%
Chromium,7440-47-3†	86643.6	0.5895	mg/L	0.02515	23.579	mg/kg	1.0058	4.27%
Cobalt,7440-48-4†	22490.7	0.4939	mg/L	0.01304	19.758	mg/kg	0.5214	2.64%
Copper,7440-50-8†	186106.3	0.7062	mg/L	0.02795	28.248	mg/kg	1.1181	3.96%
Iron,7439-89-6†	1415605.7	251.71	mg/L	0.176	10068	mg/kg	7.0	0.07%
Lead,7439-92-1†	6748.2	0.5610	mg/L	0.01634	22.441	mg/kg	0.6535	2.91%
Lithium,7439-93-2†	119998.0	0.6298	mg/L	0.00107	25.194	mg/kg	0.0429	0.17%
Magnesium,7439-95-4†	140284.8	116.50	mg/L	3.438	4659.8	mg/kg	137.53	2.95%
Manganese,7439-96-5†	3171589.9	4.0653	mg/L	0.11503	162.61	mg/kg	4.601	2.83%
Molybdenum,7439-98-7†	7173.0	0.4701	mg/L	0.01145	18.805	mg/kg	0.4580	2.44%
Nickel,7440-02-0†	31849.1	0.5489	mg/L	0.01301	21.958	mg/kg	0.5202	2.37%
Potassium,7440-09-7†	227003.6	51.206	mg/L	0.1221	2048.2	mg/kg	4.88	0.24%
Selenium,7782-49-2†	552.2	0.4806	mg/L	0.01877	19.223	mg/kg	0.7509	3.91%
Silver,7440-22-4†	125050.2	0.4435	mg/L	0.01833	17.738	mg/kg	0.7334	4.13%
Sodium,7440-23-5†	125138.0	20.640	mg/L	0.0177	825.61	mg/kg	0.710	0.09%
Strontium,7440-24-6†	824944.8	2.3272	mg/L	0.07082	93.086	mg/kg	2.8328	3.04%
Thallium,7440-28-0†	685.6	0.3986	mg/L	0.01371	15.946	mg/kg	0.5485	3.44%

Tin,7440-31-5†	1775.3	0.3939 mg/L	0.01102	15.758 mg/kg	0.4408	2.80%
Titanium,7440-32-6†	3805711.7	6.0217 mg/L	0.18598	240.87 mg/kg	7.439	3.09%
Vanadium,7440-62-2†	152000.2	0.7842 mg/L	0.03148	31.368 mg/kg	1.2592	4.01%
Zinc,7440-66-6†	181624.2	2.5018 mg/L	0.10873	100.07 mg/kg	4.349	4.35%
Zirconium,7440-67-7†	20579.8	0.0413 mg/L	0.00159	1.6513 mg/kg	0.06373	3.86%

Sequence No.: 17
Sample ID: 215353
Nebulizer Back Pressure: 200.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 5X

Autosampler Location: 31
Date Collected: 12/30/2004 5:01:16 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 215353

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5650063.1	98.441	%	1.5732				1.60%
Yttrium,7440-65-5A	2912405.3	98.602	%	1.5298				1.55%
Yttrium,7440-65-5R	196633.6	100.27	%	0.561				0.56%
Ar 420.067 R	1659177.7	92.387	%	0.1311				0.14%
Ar 363.268 A	59061.9	99.714	%	0.4369				0.44%
Aluminum,7429-90-5†	19733.7	24.648	mg/L	0.0249	4929.6	mg/kg	4.98	0.10%
Antimony,7440-36-0†	-14.8	-0.0076	mg/L	0.00396	-1.5132	mg/kg	0.79187	52.33%
Arsenic,7440-38-2†	-3.9	0.0023	mg/L	0.00070	0.4554	mg/kg	0.14088	30.93%
Barium,7440-39-3†	58763.9	0.4175	mg/L	0.00658	83.504	mg/kg	1.3167	1.58%
Beryllium,7440-41-7†	9448.0	0.0018	mg/L	0.00002	0.3596	mg/kg	0.00301	0.84%
Boron,7440-42-8†	1522.6	0.0865	mg/L	0.00602	17.310	mg/kg	1.2045	6.96%
Cadmium,7440-43-9†	206.9	-0.0010	mg/L	0.00013	-0.1993	mg/kg	0.02559	12.84%
Calcium,7440-70-2†	572984.9	89.000	mg/L	0.3931	17800	mg/kg	78.6	0.44%
Chromium,7440-47-3†	4651.0	0.0288	mg/L	0.00174	5.7531	mg/kg	0.34864	6.06%
Cobalt,7440-48-4†	727.6	0.0128	mg/L	0.00023	2.5542	mg/kg	0.04681	1.83%
Copper,7440-50-8†	12103.0	0.0490	mg/L	0.00067	9.8036	mg/kg	0.13464	1.37%
Iron,7439-89-6†	309464.9	55.026	mg/L	0.0269	11005	mg/kg	5.4	0.05%
Lead,7439-92-1†	290.4	0.0261	mg/L	0.00013	5.2277	mg/kg	0.02674	0.51%
Lithium,7439-93-2†	9207.3	0.0483	mg/L	0.00099	9.6687	mg/kg	0.19817	2.05%
Magnesium,7439-95-4†	28510.9	23.691	mg/L	0.2961	4738.2	mg/kg	59.23	1.25%
Manganese,7439-96-5†	598405.6	0.7673	mg/L	0.01004	153.45	mg/kg	2.008	1.31%
Molybdenum,7439-98-7†	122.3	0.0086	mg/L	0.00071	1.7273	mg/kg	0.14128	8.18%
Nickel,7440-02-0†	1481.0	0.0249	mg/L	0.00039	4.9873	mg/kg	0.07798	1.56%
Potassium,7440-09-7†	36180.2	8.1625	mg/L	0.04347	1632.5	mg/kg	8.69	0.53%
Selenium,7782-49-2†	-20.8	-0.0041	mg/L	0.00637	-0.8160	mg/kg	1.27480	156.22%
Silver,7440-22-4†	-2139.9	-0.0069	mg/L	0.00096	-1.3733	mg/kg	0.19107	13.91%
Sodium,7440-23-5†	2937.8	0.4755	mg/L	0.00353	95.092	mg/kg	0.7067	0.74%
Strontium,7440-24-6†	128400.5	0.3601	mg/L	0.00414	72.028	mg/kg	0.8277	1.15%
Thallium,7440-28-0†	-41.7	-0.0053	mg/L	0.00301	-1.0506	mg/kg	0.60286	57.38%
Tin,7440-31-5†	-294.6	-0.0546	mg/L	0.00298	-10.914	mg/kg	0.5957	5.46%
Titanium,7440-32-6†	741498.4	1.1732	mg/L	0.02371	234.65	mg/kg	4.742	2.02%
Vanadium,7440-62-2†	13522.0	0.0686	mg/L	0.00104	13.714	mg/kg	0.2079	1.52%
Zinc,7440-66-6†	29355.0	0.4037	mg/L	0.00537	80.749	mg/kg	1.0743	1.33%
Zirconium,7440-67-7†	4055.4	0.0082	mg/L	0.00054	1.6320	mg/kg	0.10864	6.66%

Sequence No.: 18
Sample ID: 20412300201
Nebulizer Back Pressure: 200.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 32
Date Collected: 12/30/2004 5:07:34 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300201

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5508244.6	95.970	%	0.5451				0.57%
Yttrium,7440-65-5A	2965348.0	100.39	%	0.507				0.50%
Yttrium,7440-65-5R	197710.5	100.82	%	7.502				7.44%
Ar 420.067 R	1688344.0	94.011	%	0.0923				0.10%
Ar 363.268 A	55605.3	93.878	%	0.2369				0.25%
Aluminum,7429-90-5†	129408.6	161.64	mg/L	13.747	6465.5	mg/kg	549.90	8.51%
Antimony,7440-36-0†	-91.5	-0.0536	mg/L	0.00868	-2.1442	mg/kg	0.34704	16.19%

Arsenic,7440-38-2†	-37.7	-0.0174 mg/L	0.00214	-0.6979 mg/kg	0.08561	12.27%
Barium,7440-39-3†	225199.4	1.6050 mg/L	0.01530	64.199 mg/kg	0.6120	0.95%
Beryllium,7440-41-7†	67508.1	0.0124 mg/L	0.00011	0.4953 mg/kg	0.00454	0.92%
Boron,7440-42-8†	-3871.6	0.1221 mg/L	0.02383	4.8856 mg/kg	0.95313	19.51%
Cadmium,7440-43-9†	1727.8	-0.0012 mg/L	0.00157	-0.0486 mg/kg	0.06269	129.07%
Calcium,7440-70-2†	1097313.5	170.43 mg/L	13.792	6817.1 mg/kg	551.69	8.09%
Chromium,7440-47-3†	22833.4	0.1358 mg/L	0.00368	5.4312 mg/kg	0.14735	2.71%
Cobalt,7440-48-4†	5649.8	0.1005 mg/L	0.00149	4.0208 mg/kg	0.05947	1.48%
Copper,7440-50-8†	138060.8	0.5350 mg/L	0.00122	21.399 mg/kg	0.0489	0.23%
Iron,7439-89-6†	1766445.0	314.09 mg/L	32.051	12563 mg/kg	1282.1	10.20%
Lead,7439-92-1†	1819.2	0.1625 mg/L	0.00214	6.5001 mg/kg	0.08547	1.31%
Lithium,7439-93-2†	60212.5	0.3163 mg/L	0.02521	12.651 mg/kg	1.0085	7.97%
Magnesium,7439-95-4†	133987.0	111.56 mg/L	0.806	4462.4 mg/kg	32.23	0.72%
Manganese,7439-96-5†	3543900.2	4.5432 mg/L	0.10154	181.73 mg/kg	4.062	2.24%
Molybdenum,7439-98-7†	3387.2	0.2266 mg/L	0.00035	9.0660 mg/kg	0.01387	0.15%
Nickel,7440-02-0†	8662.7	0.1458 mg/L	0.00093	5.8322 mg/kg	0.03733	0.64%
Potassium,7440-09-7†	282283.1	63.657 mg/L	4.8760	2546.3 mg/kg	195.04	7.66%
Selenium,7782-49-2†	1.6	0.0626 mg/L	0.01093	2.5030 mg/kg	0.43724	17.47%
Silver,7440-22-4†	-5696.4	-0.0159 mg/L	0.00099	-0.6373 mg/kg	0.03966	6.22%
Sodium,7440-23-5†	30798.2	5.0741 mg/L	0.43464	202.96 mg/kg	17.386	8.57%
Strontium,7440-24-6†	347636.4	0.9797 mg/L	0.00703	39.187 mg/kg	0.2812	0.72%
Thallium,7440-28-0†	-347.3	-0.0612 mg/L	0.00592	-2.4496 mg/kg	0.23684	9.67%
Tin,7440-31-5†	-312.8	-0.0266 mg/L	0.00149	-1.0651 mg/kg	0.05973	5.61%
Titanium,7440-32-6†	6173382.8	9.7685 mg/L	0.22217	390.74 mg/kg	8.887	2.27%
Vanadium,7440-62-2†	84327.9	0.4301 mg/L	0.00382	17.203 mg/kg	0.1529	0.89%
Zinc,7440-66-6†	129589.8	1.7640 mg/L	0.01812	70.559 mg/kg	0.7247	1.03%
Zirconium,7440-67-7†	45730.8	0.0927 mg/L	0.00045	3.7060 mg/kg	0.01794	0.48%

Sequence No.: 19
Sample ID: 20412300203
Nebulizer Back Pressure: 200.0 kPa
Analyst:
Initial Sample Wt: 1.25 g
Dilution: 1X

Autosampler Location: 33
Date Collected: 12/30/2004 5:13:55 PM
Nebulizer Flow: 0.66 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300203

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5628270.8	98.061	%	1.9224				1.96%
Yttrium,7440-65-5A	3030312.0	102.59	%	1.828				1.78%
Yttrium,7440-65-5R	203549.1	103.80	%	0.433				0.42%
Ar 420.067 R	1687457.9	93.961	%	0.1935				0.21%
Ar 363.268 A	55854.3	94.299	%	0.2658				0.28%
Aluminum,7429-90-5†	119928.5	149.80	mg/L	0.565	5991.8	mg/kg	22.59	0.38%
Antimony,7440-36-0†	-92.2	-0.0541	mg/L	0.00419	-2.1645	mg/kg	0.16750	7.74%
Arsenic,7440-38-2†	-37.0	-0.0170	mg/L	0.00792	-0.6789	mg/kg	0.31682	46.67%
Barium,7440-39-3†	222373.1	1.5836	mg/L	0.04267	63.343	mg/kg	1.7067	2.69%
Beryllium,7440-41-7†	62583.1	0.0115	mg/L	0.00033	0.4585	mg/kg	0.01306	2.85%
Boron,7440-42-8†	-3667.4	0.1065	mg/L	0.00168	4.2616	mg/kg	0.06702	1.57%
Cadmium,7440-43-9†	1584.1	-0.0009	mg/L	0.00015	-0.0380	mg/kg	0.00609	16.05%
Calcium,7440-70-2†	1353768.1	210.26	mg/L	0.714	8410.6	mg/kg	28.57	0.34%
Chromium,7440-47-3†	21660.7	0.1291	mg/L	0.00562	5.1643	mg/kg	0.22484	4.35%
Cobalt,7440-48-4†	5345.2	0.0956	mg/L	0.00161	3.8249	mg/kg	0.06426	1.68%
Copper,7440-50-8†	126728.5	0.4903	mg/L	0.01248	19.612	mg/kg	0.4990	2.54%
Iron,7439-89-6†	1602190.2	284.88	mg/L	1.164	11395	mg/kg	46.6	0.41%
Lead,7439-92-1†	1703.2	0.1523	mg/L	0.00331	6.0931	mg/kg	0.13260	2.18%
Lithium,7439-93-2†	55661.4	0.2924	mg/L	0.00014	11.695	mg/kg	0.0057	0.05%
Magnesium,7439-95-4†	125581.7	104.52	mg/L	1.836	4180.8	mg/kg	73.45	1.76%
Manganese,7439-96-5†	3572182.1	4.5786	mg/L	0.11157	183.15	mg/kg	4.463	2.44%
Molybdenum,7439-98-7†	3277.2	0.2188	mg/L	0.00326	8.7524	mg/kg	0.13039	1.49%
Nickel,7440-02-0†	8245.3	0.1388	mg/L	0.00290	5.5502	mg/kg	0.11595	2.09%
Potassium,7440-09-7†	258124.9	58.212	mg/L	0.0194	2328.5	mg/kg	0.78	0.03%
Selenium,7782-49-2†	3.4	0.0580	mg/L	0.00335	2.3216	mg/kg	0.13415	5.78%
Silver,7440-22-4†	-5148.3	-0.0146	mg/L	0.00066	-0.5845	mg/kg	0.02638	4.51%
Sodium,7440-23-5†	29153.3	4.7969	mg/L	0.01618	191.88	mg/kg	0.647	0.34%
Strontium,7440-24-6†	409014.0	1.1522	mg/L	0.01882	46.089	mg/kg	0.7530	1.63%
Thallium,7440-28-0†	-321.2	-0.0546	mg/L	0.00210	-2.1841	mg/kg	0.08413	3.85%
Tin,7440-31-5†	-316.4	-0.0288	mg/L	0.00223	-1.1530	mg/kg	0.08905	7.72%
Titanium,7440-32-6†	5755407.2	9.1071	mg/L	0.23675	364.28	mg/kg	9.470	2.60%
Vanadium,7440-62-2†	80846.2	0.4126	mg/L	0.01204	16.504	mg/kg	0.4816	2.92%

Zinc,7440-66-6†	119014.7	1.6222 mg/L	0.04458	64.887 mg/kg	1.7833	2.75%
Zirconium,7440-67-7†	45227.6	0.0918 mg/L	0.00065	3.6740 mg/kg	0.02612	0.71%

Sequence No.: 20
Sample ID: 20412300205
Nebulizer Back Pressure: 201.0 kPa
Analyst:
Initial Sample Wt: 1.26 g
Dilution: 1X

Autosampler Location: 34
Date Collected: 12/30/2004 5:20:32 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol: 50 mL

Mean Data: 20412300205

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5626114.0	98.024	%	0.7623				0.78%
Yttrium,7440-65-5A	3004774.4	101.73	%	0.854				0.84%
Yttrium,7440-65-5R	197445.3	100.69	%	1.702				1.69%
Ar 420.067 R	1679387.8	93.512	%	0.1874				0.20%
Ar 363.268 A	56748.6	95.808	%	0.3807				0.40%
Aluminum,7429-90-5†	86423.3	107.95	mg/L	2.500	4283.6	mg/kg	99.21	2.32%
Antimony,7440-36-0†	-60.1	-0.0329	mg/L	0.00203	-1.3058	mg/kg	0.08074	6.18%
Arsenic,7440-38-2†	-29.0	-0.0141	mg/L	0.00624	-0.5614	mg/kg	0.24766	44.12%
Barium,7440-39-3†	237185.4	1.6906	mg/L	0.01998	67.088	mg/kg	0.7927	1.18%
Beryllium,7440-41-7†	42612.0	0.0085	mg/L	0.00010	0.3384	mg/kg	0.00390	1.15%
Boron,7440-42-8†	-36.3	0.1428	mg/L	0.00254	5.6651	mg/kg	0.10070	1.78%
Cadmium,7440-43-9†	1230.1	0.0008	mg/L	0.00025	0.0306	mg/kg	0.01004	32.79%
Calcium,7440-70-2†	1635965.3	254.11	mg/L	6.775	10084	mg/kg	268.8	2.67%
Chromium,7440-47-3†	19425.6	0.1198	mg/L	0.00051	4.7532	mg/kg	0.02029	0.43%
Cobalt,7440-48-4†	2989.9	0.0549	mg/L	0.00048	2.1795	mg/kg	0.01898	0.87%
Copper,7440-50-8†	288604.4	1.0801	mg/L	0.01441	42.860	mg/kg	0.5719	1.33%
Iron,7439-89-6†	1072784.0	190.75	mg/L	4.578	7569.4	mg/kg	181.66	2.40%
Lead,7439-92-1†	1706.5	0.1486	mg/L	0.00100	5.8975	mg/kg	0.03983	0.68%
Lithium,7439-93-2†	35235.8	0.1850	mg/L	0.00411	7.3409	mg/kg	0.16292	2.22%
Magnesium,7439-95-4†	92564.2	76.960	mg/L	2.5721	3054.0	mg/kg	102.07	3.34%
Manganese,7439-96-5†	2648513.0	3.3947	mg/L	0.00537	134.71	mg/kg	0.213	0.16%
Molybdenum,7439-98-7†	1152.8	0.0785	mg/L	0.00070	3.1157	mg/kg	0.02764	0.89%
Nickel,7440-02-0†	6300.9	0.1066	mg/L	0.00054	4.2297	mg/kg	0.02163	0.51%
Potassium,7440-09-7†	169086.2	38.141	mg/L	0.8229	1513.5	mg/kg	32.65	2.16%
Selenium,7782-49-2†	11.7	0.0465	mg/L	0.00430	1.8461	mg/kg	0.17051	9.24%
Silver,7440-22-4†	-3490.6	-0.0102	mg/L	0.00031	-0.4043	mg/kg	0.01241	3.07%
Sodium,7440-23-5†	35673.4	5.8650	mg/L	0.12087	232.74	mg/kg	4.796	2.06%
Strontium,7440-24-6†	530432.1	1.4962	mg/L	0.04322	59.374	mg/kg	1.7151	2.89%
Thallium,7440-28-0†	-151.2	-0.0214	mg/L	0.00052	-0.8510	mg/kg	0.02056	2.42%
Tin,7440-31-5†	-229.4	-0.0276	mg/L	0.00104	-1.0963	mg/kg	0.04143	3.78%
Titanium,7440-32-6†	2561832.9	4.0535	mg/L	0.01115	160.85	mg/kg	0.442	0.27%
Vanadium,7440-62-2†	47425.9	0.2408	mg/L	0.00244	9.5566	mg/kg	0.09702	1.02%
Zinc,7440-66-6†	179396.1	2.4770	mg/L	0.02797	98.293	mg/kg	1.1098	1.13%
Zirconium,7440-67-7†	21765.9	0.0447	mg/L	0.00047	1.7730	mg/kg	0.01870	1.05%

Sequence No.: 21
Sample ID: 1800
Nebulizer Back Pressure: 201.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 12/30/2004 5:26:52 PM
Nebulizer Flow: 0.52 L/min
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 1800

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Scandium-IS	5718568.8	99.634	%	1.4767				1.48%
Yttrium,7440-65-5A	2911681.2	98.578	%	1.4263				1.45%
Yttrium,7440-65-5R	188215.8	95.981	%	1.1272				1.17%
Ar 420.067 R	1697866.3	94.541	%	0.0052				0.01%
Ar 363.268 A	59470.6	100.40	%	0.311				0.31%
Aluminum,7429-90-5†	4128.5	5.1504	mg/L	0.03769	5.1504	mg/L	0.03769	0.73%
QC value within limits for Aluminum,7429-90-5 Recovery = 103.01%								
Antimony,7440-36-0†	798.8	0.4671	mg/L	0.00676	0.4671	mg/L	0.00676	1.45%
QC value within limits for Antimony,7440-36-0 Recovery = 93.42%								
Arsenic,7440-38-2†	557.4	0.4800	mg/L	0.00820	0.4800	mg/L	0.00820	1.71%

QC value within limits for Arsenic,7440-38-2 Recovery = 96.01%
Barium,7440-39-3† 67605.5 0.4858 mg/L 0.00564 0.4858 mg/L 0.00564 1.16%
QC value within limits for Barium,7440-39-3 Recovery = 97.15%
Beryllium,7440-41-7† 2116072.1 0.4911 mg/L 0.00097 0.4911 mg/L 0.00097 0.20%
QC value within limits for Beryllium,7440-41-7 Recovery = 98.21%
Boron,7440-42-8† 79613.6 2.3668 mg/L 0.01855 2.3668 mg/L 0.01855 0.78%
QC value within limits for Boron,7440-42-8 Recovery = 94.67%
Cadmium,7440-43-9† 58343.8 0.4737 mg/L 0.00639 0.4737 mg/L 0.00639 1.35%
QC value within limits for Cadmium,7440-43-9 Recovery = 94.74%
Calcium,7440-70-2† 32454.5 5.0407 mg/L 0.02574 5.0407 mg/L 0.02574 0.51%
QC value within limits for Calcium,7440-70-2 Recovery = 100.81%
Chromium,7440-47-3† 68651.3 0.4807 mg/L 0.00675 0.4807 mg/L 0.00675 1.40%
QC value within limits for Chromium,7440-47-3 Recovery = 96.14%
Cobalt,7440-48-4† 21539.9 0.4900 mg/L 0.00644 0.4900 mg/L 0.00644 1.31%
QC value within limits for Cobalt,7440-48-4 Recovery = 97.99%
Copper,7440-50-8† 131316.4 0.4846 mg/L 0.00566 0.4846 mg/L 0.00566 1.17%
QC value within limits for Copper,7440-50-8 Recovery = 96.93%
Iron,7439-89-6† 28653.1 5.0944 mg/L 0.02437 5.0944 mg/L 0.02437 0.48%
QC value within limits for Iron,7439-89-6 Recovery = 101.89%
Lead,7439-92-1† 5983.1 0.4876 mg/L 0.00762 0.4876 mg/L 0.00762 1.56%
QC value within limits for Lead,7439-92-1 Recovery = 97.51%
Lithium,7439-93-2† 90399.6 0.4744 mg/L 0.00432 0.4744 mg/L 0.00432 0.91%
QC value within limits for Lithium,7439-93-2 Recovery = 94.88%
Magnesium,7439-95-4† 6248.2 5.1644 mg/L 0.05225 5.1644 mg/L 0.05225 1.01%
QC value within limits for Magnesium,7439-95-4 Recovery = 103.29%
Manganese,7439-96-5† 383210.5 0.4904 mg/L 0.00602 0.4904 mg/L 0.00602 1.23%
QC value within limits for Manganese,7439-96-5 Recovery = 98.09%
Molybdenum,7439-98-7† 7299.9 0.4753 mg/L 0.00705 0.4753 mg/L 0.00705 1.48%
QC value within limits for Molybdenum,7439-98-7 Recovery = 95.06%
Nickel,7440-02-0† 27969.7 0.4851 mg/L 0.00620 0.4851 mg/L 0.00620 1.28%
QC value within limits for Nickel,7440-02-0 Recovery = 97.02%
Potassium,7440-09-7† 42290.1 9.5363 mg/L 0.05528 9.5363 mg/L 0.05528 0.58%
QC value within limits for Potassium,7440-09-7 Recovery = 95.36%
Selenium,7782-49-2† 603.9 0.4669 mg/L 0.01127 0.4669 mg/L 0.01127 2.41%
QC value within limits for Selenium,7782-49-2 Recovery = 93.39%
Silver,7440-22-4† 136650.8 0.4814 mg/L 0.00569 0.4814 mg/L 0.00569 1.18%
QC value within limits for Silver,7440-22-4 Recovery = 96.27%
Sodium,7440-23-5† 113502.5 18.761 mg/L 0.1078 18.761 mg/L 0.1078 0.57%
QC value within limits for Sodium,7440-23-5 Recovery = 93.80%
Strontium,7440-24-6† 165930.8 0.4737 mg/L 0.00406 0.4737 mg/L 0.00406 0.86%
QC value within limits for Strontium,7440-24-6 Recovery = 94.74%
Thallium,7440-28-0† 1024.6 0.4922 mg/L 0.00593 0.4922 mg/L 0.00593 1.20%
QC value within limits for Thallium,7440-28-0 Recovery = 98.45%
Tin,7440-31-5† 2312.8 0.4770 mg/L 0.00846 0.4770 mg/L 0.00846 1.77%
QC value within limits for Tin,7440-31-5 Recovery = 95.40%
Titanium,7440-32-6† 313468.3 0.4960 mg/L 0.00205 0.4960 mg/L 0.00205 0.41%
QC value within limits for Titanium,7440-32-6 Recovery = 99.21%
Vanadium,7440-62-2† 92039.4 0.4804 mg/L 0.00641 0.4804 mg/L 0.00641 1.33%
QC value within limits for Vanadium,7440-62-2 Recovery = 96.08%
Zinc,7440-66-6† 35183.4 0.4853 mg/L 0.00633 0.4853 mg/L 0.00633 1.30%
QC value within limits for Zinc,7440-66-6 Recovery = 97.05%
Zirconium,7440-67-7† 222438.1 0.4725 mg/L 0.00301 0.4725 mg/L 0.00301 0.64%
QC value within limits for Zirconium,7440-67-7 Recovery = 94.50%
All analyte(s) passed QC.

Sequence No.: 22
Sample ID: 1900
Nebulizer Back Pressure: 201.0 kPa
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 12/30/2004 5:33:22 PM
Nebulizer Flow: 0.63 L/min
Data Type: Original
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
Scandium-IS	5709312.7	99.473	%	1.5959				1.60%
Yttrium,7440-65-5A	2962959.4	100.31	%	1.561				1.56%
Yttrium,7440-65-5R	192149.7	97.987	%	3.4536				3.52%
Ar 420.067 R	1731393.6	96.408	%	0.2957				0.31%
Ar 363.268 A	59701.1	100.79	%	0.579				0.57%

Aluminum,7429-90-5†	40.0	0.0499 mg/L	0.03183	0.0499 mg/L	0.03183	63.78%
QC value within limits for Aluminum,7429-90-5 Recovery = Not calculated						
Antimony,7440-36-0†	4.9	0.0030 mg/L	0.00108	0.0030 mg/L	0.00108	36.57%
QC value within limits for Antimony,7440-36-0 Recovery = Not calculated						
Arsenic,7440-38-2†	-0.1	-0.0001 mg/L	0.00185	-0.0001 mg/L	0.00185	>999.9%
QC value within limits for Arsenic,7440-38-2 Recovery = Not calculated						
Barium,7440-39-3†	20.5	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	50.18%
QC value within limits for Barium,7440-39-3 Recovery = Not calculated						
Beryllium,7440-41-7†	555.2	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	8.99%
QC value within limits for Beryllium,7440-41-7 Recovery = Not calculated						
Boron,7440-42-8†	1176.1	0.0349 mg/L	0.00274	0.0349 mg/L	0.00274	7.84%
QC value within limits for Boron,7440-42-8 Recovery = Not calculated						
Cadmium,7440-43-9†	18.7	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	55.76%
QC value within limits for Cadmium,7440-43-9 Recovery = Not calculated						
Calcium,7440-70-2†	51.0	0.0079 mg/L	0.00180	0.0079 mg/L	0.00180	22.73%
QC value within limits for Calcium,7440-70-2 Recovery = Not calculated						
Chromium,7440-47-3†	-254.9	-0.0018 mg/L	0.00044	-0.0018 mg/L	0.00044	24.26%
QC value within limits for Chromium,7440-47-3 Recovery = Not calculated						
Cobalt,7440-48-4†	-1.4	0.0000 mg/L	0.00019	0.0000 mg/L	0.00019	524.13%
QC value within limits for Cobalt,7440-48-4 Recovery = Not calculated						
Copper,7440-50-8†	63.6	0.0002 mg/L	0.00037	0.0002 mg/L	0.00037	157.25%
QC value within limits for Copper,7440-50-8 Recovery = Not calculated						
Iron,7439-89-6†	140.2	0.0249 mg/L	0.00433	0.0249 mg/L	0.00433	17.39%
QC value within limits for Iron,7439-89-6 Recovery = Not calculated						
Lead,7439-92-1†	-0.0	0.0000 mg/L	0.00043	0.0000 mg/L	0.00043	>999.9%
QC value within limits for Lead,7439-92-1 Recovery = Not calculated						
Lithium,7439-93-2†	187.8	0.0010 mg/L	0.00025	0.0010 mg/L	0.00025	25.65%
QC value within limits for Lithium,7439-93-2 Recovery = Not calculated						
Magnesium,7439-95-4†	-1.4	-0.0010 mg/L	0.01476	-0.0010 mg/L	0.01476	>999.9%
QC value within limits for Magnesium,7439-95-4 Recovery = Not calculated						
Manganese,7439-96-5†	437.1	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	4.29%
QC value within limits for Manganese,7439-96-5 Recovery = Not calculated						
Molybdenum,7439-98-7†	8.5	0.0006 mg/L	0.00004	0.0006 mg/L	0.00004	7.61%
QC value within limits for Molybdenum,7439-98-7 Recovery = Not calculated						
Nickel,7440-02-0†	12.1	0.0002 mg/L	0.00061	0.0002 mg/L	0.00061	293.72%
QC value within limits for Nickel,7440-02-0 Recovery = Not calculated						
Potassium,7440-09-7†	325.0	0.0733 mg/L	0.06973	0.0733 mg/L	0.06973	95.15%
QC value within limits for Potassium,7440-09-7 Recovery = Not calculated						
Selenium,7782-49-2†	1.4	0.0011 mg/L	0.00369	0.0011 mg/L	0.00369	346.47%
QC value within limits for Selenium,7782-49-2 Recovery = Not calculated						
Silver,7440-22-4†	222.6	0.0008 mg/L	0.00102	0.0008 mg/L	0.00102	130.25%
QC value within limits for Silver,7440-22-4 Recovery = Not calculated						
Sodium,7440-23-5†	-56.7	-0.0094 mg/L	0.01661	-0.0094 mg/L	0.01661	177.21%
QC value within limits for Sodium,7440-23-5 Recovery = Not calculated						
Strontium,7440-24-6†	-32.3	-0.0001 mg/L	0.00030	-0.0001 mg/L	0.00030	323.29%
QC value within limits for Strontium,7440-24-6 Recovery = Not calculated						
Thallium,7440-28-0†	12.6	0.0060 mg/L	0.00218	0.0060 mg/L	0.00218	36.39%
QC value within limits for Thallium,7440-28-0 Recovery = Not calculated						
Tin,7440-31-5†	1.5	0.0003 mg/L	0.00075	0.0003 mg/L	0.00075	238.43%
QC value within limits for Tin,7440-31-5 Recovery = Not calculated						
Titanium,7440-32-6†	1450.1	0.0023 mg/L	0.00229	0.0023 mg/L	0.00229	99.89%
QC value within limits for Titanium,7440-32-6 Recovery = Not calculated						
Vanadium,7440-62-2†	6.4	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	302.31%
QC value within limits for Vanadium,7440-62-2 Recovery = Not calculated						
Zinc,7440-66-6†	106.7	0.0015 mg/L	0.00007	0.0015 mg/L	0.00007	4.81%
QC value within limits for Zinc,7440-66-6 Recovery = Not calculated						
Zirconium,7440-67-7†	325.7	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	4.02%
QC value within limits for Zirconium,7440-67-7 Recovery = Not calculated						

All analyte(s) passed QC.

SnCl2 ID 102-53-15
NaCl/(NH2OH)2 102-53-16
INSTRUMENT FIMS

MERCURY

ANALYST NZN
DATE 12/29/2004
TIME 16:14

AS LOC	HSN / CLIENT	SAMPLE ID	DILUTION	MATRIX	RECOVERY
9	ICV-1600				102
1	ICB-1700				
5	CCV-1800				98
1	CCB-1900				
17	214110	BLK 2041222 LO1			
18	204111	LCS 2041222 LO1			91
19	--- 0011 ---	20412173001			
20	214112	20412173001 DUP			
21	214113	20412173001 MS			78
22	215160	BLK 2041228 S1			
23	215161	LCS 2041228 S1			100
24		20412220502			
25		20412220503 DUP			
26	215162	20412220502 MS			95
5	CCV-1800				95
1	CCB-1900				
27	214995	BLK 2041229 S1			
28	214996	LCS 2041229 S1			103
29	--- 4380 ---	20412290201			
30	214997	20412290201 DUP			
31	214998	20412290201 MS			101
32	214999	20412290201 MSD			101
33					
34					
35					
36					
5	CCV-1800				96
1	CCB-1900				
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
5	CCV-1800				
1	CCB-1900				
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
5	CCV-1800				
1	CCB-1900				

CONTROL LIMITS

ICV : 90-110%
CCV: 80-120%

COMMENTS:
2192, 285566

Calibration ID: 20412275

ANALYST QC REV: NZN
SECONDARY REV: MAP

Go to page 2

Method Name: HgH2O
Method Description:
Element: Hg

Date: 12/29/2004
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: SAMPLE~1.SIF Results Data Set Name: 2041229 S2

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 12/29/2004
Sample ID: Calib Blk 1

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0108	0.0108	0.0024	04:14:23	No
2			0.0107	0.0107	0.0021	04:14:54	No
Mean:			0.0107				
SD :			0.0001				
%RSD:			0.8640				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 12/29/2004
Sample ID: Standard 1

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0087	0.0194	0.0038	04:16:09	No
2			0.0051	0.0158	0.0036	04:16:39	No
Mean:			0.0069				
SD :			0.0026				
%RSD:			37.1474				

[Hg] Standard number 1 applied. [0.2000]
Correlation Coefficient: 1.00000 Slope: 0.03455
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 12/29/2004
Sample ID: Standard 2

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0180	0.0287	0.0063	04:17:55	No
2			0.0210	0.0317	0.0065	04:18:25	No
Mean:			0.0195				
SD :			0.0021				
%RSD:			10.9083				

[Hg] Standard number 2 applied. [0.5000]
Correlation Coefficient: 0.99868 Slope: 0.03921
Intercept : -0.00035

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 12/29/2004
Sample ID: Standard 3

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0827	0.0934	0.0193	04:19:44	No
2			0.0857	0.0964	0.0200	04:20:14	No
Mean:			0.0842				
SD :			0.0021				

%RSD: 2.4699
[Hg] Standard number 3 applied. [2.000]
Correlation Coefficient: 0.99978 Slope: 0.04250
Intercept : -0.00104

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Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 12/29/2004
Sample ID: Standard 4

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1901	0.2008	0.0425	04:21:33	No
2			0.1931	0.2038	0.0429	04:22:03	No
Mean:			0.1916				
SD :			0.0021				
%RSD:			1.1107				

[Hg] Standard number 4 applied. [5.000]
Correlation Coefficient: 0.99910 Slope: 0.03856
Intercept : 0.00106

==========

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 12/29/2004
Sample ID: Standard 5

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.3955	0.4062	0.0845	04:23:23	No
2			0.4012	0.4119	0.0861	04:23:54	No
Mean:			0.3983				
SD :			0.0040				
%RSD:			1.0078				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99970 Slope: 0.03963
Intercept : -0.00015

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blk 1	0.0107	-----	----	----	----
Standard 1	0.0069	0.20000	0.1780	0.002567	37.1
Standard 2	0.0195	0.50000	0.4954	0.002126	10.9
Standard 3	0.0842	2.00000	2.128	0.002080	2.5
Standard 4	0.1916	5.00000	4.839	0.002128	1.1
Standard 5	0.3983	10.00000	10.06	0.004014	1.0
Calib Blk 1	0.0107	-----	----	----	----

Correlation Coefficient: 0.99970 Slope: 0.03963 Intercept: -0.0001

Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 12/29/2004
Sample ID: 1600

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00512	5.123	0.2029	0.2136	0.0448	04:26:30	No
2	0.00505	5.045	0.1998	0.2105	0.0449	04:27:00	No
Mean:	0.00508	5.084	0.2013				
SD :	0.000055	0.05473	0.0022				
%RSD:	1.1	1.1	1.0772				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 12/29/2004
Sample ID: 1700

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00006	0.05768	0.0021	0.0129	0.0023	04:28:12	No
2	-0.00010	-0.1006	-0.0041	0.0066	0.0018	04:28:43	No
Mean:	-0.00002	-0.02145	-0.0010				
SD :	0.000112	0.1119	0.0044				
%RSD:	521.7	521.7	445.5393				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 5 Date: 12/29/2004
Sample ID: 1800

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00489	4.885	0.1934	0.2042	0.0425	04:29:57	No
2	0.00494	4.942	0.1957	0.2064	0.0433	04:30:28	No
Mean:	0.00491	4.914	0.1946				
SD :	0.000040	0.04037	0.0016				
%RSD:	0.8	0.8	0.8222				

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 1 Date: 12/29/2004
Sample ID: 1900

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00000	-0.00370	-0.0003	0.0104	0.0020	04:31:42	No
2	-0.00007	-0.06644	-0.0028	0.0079	0.0019	04:32:12	No
Mean:	-0.00004	-0.03507	-0.0015				
SD :	0.000044	0.04436	0.0018				
%RSD:	126.5	126.5	114.5198				

QC value within specified limits.

Element: Hg Seq. No.: 11 AS Loc.: 17 Date: 12/29/2004
Sample ID: 214110

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00112	0.01875	0.0006	0.0113	0.0023	04:33:24	No
2	0.00492	0.08203	0.0031	0.0138	0.0023	04:33:54	No
Mean:	0.00302	0.05039	0.0019				
SD :	0.002685	0.04474	0.0018				
%RSD:	88.8	88.8	95.7707				

Element: Hg Seq. No.: 12 AS Loc.: 18 Date: 12/29/2004
Sample ID: 214111

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2707	4.511	0.1786	0.1893	0.0401	04:35:06	No
2	0.2766	4.610	0.1825	0.1933	0.0412	04:35:36	No
Mean:	0.2736	4.561	0.1806				
SD :	0.004186	0.06976	0.0028				
%RSD:	1.5	1.5	1.5308				

Element: Hg Seq. No.: 13 AS Loc.: 19 Date: 12/29/2004
Sample ID: 20412173001

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00041	-0.00686	-0.0004	0.0103	0.0021	04:36:48	No
2	-0.00357	-0.05942	-0.0025	0.0082	0.0019	04:37:18	No
Mean:	-0.00199	-0.03314	-0.0015				
SD :	0.002230	0.03717	0.0015				
%RSD:	112.2	112.2	100.9833				

Element: Hg Seq. No.: 14 AS Loc.: 20 Date: 12/29/2004
Sample ID: 214112

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00408	-0.06808	-0.0028	0.0079	0.0020	04:38:30	No
2	-0.00379	-0.06310	-0.0026	0.0081	0.0021	04:39:00	No
Mean:	-0.00394	-0.06559	-0.0027				
SD :	0.000211	0.003520	0.0001				
%RSD:	5.4	5.4	5.0822				

Element: Hg Seq. No.: 15 AS Loc.: 21 Date: 12/29/2004
Sample ID: 214113

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2344	3.906	0.1546	0.1654	0.0354	04:40:13	No
2	0.2365	3.942	0.1561	0.1668	0.0357	04:40:43	No
Mean:	0.2355	3.924	0.1554				
SD :	0.001528	0.02546	0.0010				
%RSD:	0.6	0.6	0.6495				

Element: Hg Seq. No.: 16 AS Loc.: 22 Date: 12/29/2004
Sample ID: BLK 2041228 S1

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00473	-0.09466	-0.0039	0.0068	0.0017	04:41:57	No
2	-0.00289	-0.05790	-0.0024	0.0083	0.0016	04:42:27	No
Mean:	-0.00381	-0.07628	-0.0032				
SD :	0.001300	0.02599	0.0010				
%RSD:	34.1	34.1	32.5136				

Element: Hg Seq. No.: 17 AS Loc.: 23 Date: 12/29/2004
Sample ID: LCS 2041228 S1

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2491	4.982	0.1973	0.2080	0.0418	04:43:42	No
2	0.2490	4.980	0.1972	0.2079	0.0421	04:44:12	No

Mean:	0.2490	4.981	0.1972
SD :	0.000067	0.001337	0.0001
%RSD:			

Element: Hg Seq. No.: 18 AS Loc.: 24 Date: 12/29/2004
Sample ID: 20412220502

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01139	0.2279	0.0089	0.0196	0.0041	04:45:28	No
2	0.00749	0.1498	0.0058	0.0165	0.0038	04:45:58	No
Mean:	0.00944	0.1888	0.0073				
SD :	0.002760	0.05519	0.0022				
%RSD:	29.2	29.2	29.8089				

Element: Hg Seq. No.: 19 AS Loc.: 25 Date: 12/29/2004
Sample ID: 20412220502 DUP

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00960	0.1920	0.0075	0.0182	0.0038	04:47:13	No
2	0.00729	0.1457	0.0056	0.0164	0.0038	04:47:43	No
Mean:	0.00844	0.1688	0.0065				
SD :	0.001636	0.03271	0.0013				
%RSD:	19.4	19.4	19.8033				

Element: Hg Seq. No.: 20 AS Loc.: 26 Date: 12/29/2004
Sample ID: 20412220502 MS

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2431	4.862	0.1925	0.2032	0.0413	04:48:59	No
2	0.2505	5.009	0.1983	0.2091	0.0422	04:49:29	No
Mean:	0.2468	4.936	0.1954				
SD :	0.005192	0.1038	0.0041				
%RSD:	2.1	2.1	2.1054				

Element: Hg Seq. No.: 21 AS Loc.: 5 Date: 12/29/2004
Sample ID: 1800

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00471	4.705	0.1863	0.1970	0.0413	04:50:44	No
2	0.00481	4.809	0.1904	0.2012	0.0422	04:51:15	No
Mean:	0.00476	4.757	0.1884				
SD :	0.000074	0.07355	0.0029				
%RSD:	1.5	1.5	1.5473				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 1 Date: 12/29/2004
Sample ID: 1900

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00005	-0.04655	-0.0020	0.0087	0.0019	04:52:29	No
2	-0.00008	-0.07657	-0.0032	0.0075	0.0018	04:53:00	No
Mean:	-0.00006	-0.06156	-0.0026				
SD :	0.000021	0.02122	0.0008				
%RSD:	34.5	34.5	32.5376				

QC value within specified limits.

Element: Hg Seq. No.: 23 AS Loc.: 27 Date: 12/29/2004
Sample ID: 214995

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00020	-0.00391	-0.0003	0.0104	0.0020	04:54:15	No
2	0.00050	0.01003	0.0003	0.0110	0.0022	04:54:45	No
Mean:	0.00015	0.00306	0.0000				
SD :	0.000493	0.009860	0.0004				
%RSD:	322.4	322.4	1616.4644				

Element: Hg Seq. No.: 24 AS Loc.: 28 Date: 12/29/2004
Sample ID: 214996

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2549	5.098	0.2019	0.2126	0.0442	04:56:02	No
2	0.2581	5.163	0.2044	0.2152	0.0446	04:56:32	No
Mean:	0.2565	5.130	0.2032				
SD :	0.002274	0.04547	0.0018				
%RSD:	0.9	0.9	0.8869				

Element: Hg Seq. No.: 25 AS Loc.: 29 Date: 12/29/2004
Sample ID: 21412290201

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00930	0.1860	0.0072	0.0179	0.0038	04:57:49	No
2	0.00328	0.06567	0.0025	0.0132	0.0034	04:58:19	No
Mean:	0.00629	0.1258	0.0048				
SD :	0.004253	0.08506	0.0034				
%RSD:	67.6	67.6	69.6338				

Element: Hg Seq. No.: 26 AS Loc.: 30 Date: 12/29/2004
Sample ID: 214997

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00779	0.1558	0.0060	0.0168	0.0035	04:59:38	No
2	0.00867	0.1734	0.0067	0.0174	0.0036	05:00:07	No
Mean:	0.00823	0.1646	0.0064				
SD :	0.000620	0.01241	0.0005				
%RSD:	7.5	7.5	7.7089				

Element: Hg Seq. No.: 27 AS Loc.: 31 Date: 12/29/2004
Sample ID: 214998

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2572	5.143	0.2037	0.2144	0.0449	05:01:26	No
2	0.2601	5.202	0.2060	0.2167	0.0449	05:01:55	No
Mean:	0.2586	5.172	0.2048				
SD :	0.002068	0.04137	0.0016				
%RSD:	0.8	0.8	0.8003				

Element: Hg Seq. No.: 28 AS Loc.: 32 Date: 12/29/2004
Sample ID: 214999

Repl #	SampleConc mg/kg	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.2595	5.190	0.2055	0.2162	0.0450	05:03:10	No

2	0.2592	5.184	0.2053	0.2160	0.0449	05:03:41	No
Mean:	0.2594	5.187	0.2054				
SD :	0.000209	0.004190	0.0002				
%RSD:							

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Element: Hg Seq. No.: 29 AS Loc.: 5 Date: 12/29/2004
Sample ID: 1800

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00482	4.819	0.1908	0.2015	0.0424	05:04:54	No
2	0.00478	4.783	0.1894	0.2001	0.0424	05:05:24	No
Mean:	0.00480	4.801	0.1901				
SD :	0.000025	0.02494	0.0010				
%RSD:	0.5	0.5	0.5198				

QC value within specified limits.

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Element: Hg Seq. No.: 30 AS Loc.: 1 Date: 12/29/2004
Sample ID: 1900

Repl #	SampleConc mg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.00004	-0.04492	-0.0019	0.0088	0.0018	05:06:38	No
2	-0.00005	-0.04565	-0.0020	0.0088	0.0018	05:07:08	No
Mean:	-0.00005	-0.04528	-0.0019				
SD :	0.000001	0.000513	0.0000				
%RSD:	1.1	1.1	1.0479				

QC value within specified limits.

ICP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	12-29-04 10:15	BATCH NO:	285543
MATRIX:	WATER ☐ SOIL ☑ TCLP EXT ☐ ORGANIC ☐	METHOD:	200.7 ☐ 3010A ☐ 3050B ☑ 3051 ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL (g)	FINAL VOLUME (mL)	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 285543 [DIGM/7793]	214990	1.25	50		HNO3
2	QC ACCOUNT	LCS for HBN 285543 [DIGM/7793]	214991	1.25	↓		334-35-10
3	4380	001-NFF-BFC-S-1228-04	20412290201	1.25	↓		HCL
4	QC ACCOUNT	001-NFF-BFC-S-12... (214965DUP)	214992	1.25	↓		334-35-11
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	214993	1.25	↓		H2O2
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	214994	1.25	↓		334-34-19
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							SPIKING SOLUTIONS (LCS/MS)
18							
19							GCALI-1 - 250uL
20							334-34-8
21							GCALI-2 - 250uL
22							334-34-9
23							ORGANOMETALLIC ICP SPIKE 0.025g
24							
25							
26							
27							
28							

COMMENTS:

BLOCK ID	TECHNICIAN	DATE
B	JEL	12-29-04
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JEL	MAP	12-30-04

HG SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	12-29-04 10:15	BATCH NO:	285544
MATRIX:	WATER ☐ SOIL ☑ TCLP EXT ☐ ORGANIC ☐	METHOD:	245.2 ☐ 7470A ☐ 7471A ☑

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL (g)	FINAL VOLUME (mL)	COMMENTS	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 285544 [DIGM/7794]	214995	0.60	30		HNO3
2	QC ACCOUNT	LCS for HBN 285544 [DIGM/7794]	214996	0.60			
3	4380	001-NFF-BFC-S-1228-04	20412290201	0.60			H2SO4
4	QC ACCOUNT	001-NFF-BFC-S-12... (214965DUP)	214997	0.60			
5	QC ACCOUNT	001-NFF-BFC-S-122... (214965MS)	214998	0.60			Aqua Regia
6	QC ACCOUNT	001-NFF-BFC-S-12... (214965MSD)	214999	0.60			334-29-18
7							KMN04
8							334-35-15
9							K2S2O6
10							
11							Hg Calib ID
12							
13							0.1 ppm CCV Working Solution
14							
15							0.1 ppm ICV Working Solution
16							
17							Hg ICV
18							
19							SPIKE SOLUTIONS (LCS/MS)
20							
21							Hg Spike 100uL / 150uL
22							125-3H
23							ORGANOMETALLIC HG SPIKE 0.025g
24							
25							
26							

Hg Solid Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	60 uL	30mL
Standard 2	0.50	150 uL	30 mL
Standard 3	2.00	600 uL	30 mL
Standard 4	5.00	1500 ul	30 mL
Standard 5	10.0	3000 uL	30 mL
ICV	5.00	1500 uL	30 mL

Hg Water Calibration

Calib Blk	Conc (ug/L)	0.1ppm Spk Added	Final Volume
Standard 1	0.20	40 uL	20 mL
Standard 2	0.50	100 uL	20 mL
Standard 3	2.00	400 uL	20 mL
Standard 4	5.00	1000 ul	20 mL
Standard 5	10.0	2000 uL	20 mL
ICV	5.00	1000 uL	20 mL

BLOCK ID	TECHNICIAN	DATE
A	JKL	12-29-04
REPIPET BOTTLES VERIFIED	**REVIEW**	**DATE**
JEL	MDP	12-30-04

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 2 Zr	125-42-1	1000ppm Zr	Exaxol	040721 7-05	50µL	50mL	1.00ppm	102-53-16	AJW	12-21-04	1-21-
Dates 12-02-04 – 12-21-04 Were reviewed by QA/QC Dept on 12/22/04 DLH											
GFAA ICV	125-42-2	X-MEB168066 G-CAL-3	Custom Grade	XEB 168066 Exp. 1st/04	2.5mL	100mL	0.25ppm Tl 1.0 ppm As Se	2% HNO3	NZN	12/23/04	1/24/
GFAA Calib.	125-42-3	1000ppm As " Se " Tl	EXXAXOL " "	030825/2-05 030825/2-05 040721/1-06	100uL	100mL	1.0 ppm	2% HNO3	NZN	↓	↓
CRDL	125-42-4	GCAL3	Inorganic Ventures	XMEB168066 4-1-05	100µL	100mL	Varied	102-54-1	AJW	12-28-04	1-28-0
		GCAL4	↓	XMEB168065/ 4-1-05	↓	↓	↓	↓	↓	↓	↓
STD 1	125-42-5	GCALI-1A	Inorganic Ventures	WMEB161095 5-1-05	2mL	200mL	Varied	102-54-1	AJW	12-30-04	1-30-0
↓	↓	GCALI-2A	↓	WMEB161094 5-1-05	↓	↓	↓	↓	↓	↓	↓
↓	↓	1000ppm Zr	Ultra Scientific	D0069 12-06	200µL	↓	↓	↓	↓	↓	↓
ICV2 Zr	125-42-6	1000ppm Zr	Exaxol	040721 7-05	50µL	50mL	1.00ppm	102-54-1	AJW	12-30-04	1-30-05
Hg CCV	125-42-7	1000ppm Hg	Exaxol	040721 01/06	50µL	50mL	1.00ppm	102-54-1	AJW	12-30-04	1-30-

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	125-41-1	21 element mix	CPI	41M044/3-15-06 ~~2mL~~ AJW 12-21-04	2mL	200mL	Varied	102-53-14	AJW	12-21-04	1-21-05
		1000ppm Ca	Exaxol	040923/3-06 ~~1800µL~~ AJW 12-21-04	1800µL						
		Fe		040308/9-05							
		Mg		040923/3-06							
		Al		040923/3-06 ~~2mL~~ AJW 12-21-04	2mL						
		Na		030825/2-05							
		K		030825/2-05							
		B		040721/7-05 ~~1mL~~	1mL						
		Ba		040520/11-05 ~~200µL~~ AJW 12-21-04	200µL						
		Sn									
		Ag									
ICV 1	125-41-1	21 element mix	CPI	41M044/3-15-06	2mL	200mL	Varied	102-53-14	AJW	12-21-04	1-21-05
		1000ppm Ca	Exaxol	040923/3-06	1800µL						
		Fe		040308/9-05							
		Mg		040923/3-06							
		Al		040520/11-05	2mL						
		Na		040923/3-06							
		K		040923/3-06							
		B		030825/2-05	1mL						
		Ba		030825/2-05	200µL						
		Sn		040721/7-05							
		Ag		040520/11-05							

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
ICSAB	125-40-1	Int A	Spex	26-132AS 9-30-05	8ml	200ml	Varied	102-53-11	JAC	12-20-04	1-20-05
↓	↓	Analytes B	↓	27-94AS 11-15-05	2ml	↓	↓	↓	↓	↓	↓
↓	↓	Alt Analyte B	↓	2-88MS 2-15-05	2ml	↓	↓	↓	↓	↓	↓
ICV2-Zr	125-40-2	1000 ppm Zr	Exxabol	040721 7-05	50 ul	50 ml	1.00 ppm	102-53-11	JAC	12-20-04	1-20-05
CRDL	125-403	GCAL3	Inorganic Ventures	XMEB168066 4-1-05	100ul	100ml	Varied	102-53-14	AJW	12-21-04	1-21-05
		GCAL4	↓	XMEB168065 4-1-05	↓	↓	↓	↓	↓	↓	↓
STD 1	125-404	GCAL1-1A	Inorganic Ventures	WMEB161095 5-1-05	5mL	500mL	Varied	102-53-14	AJW	12-21-04	1-21-05
↓	↓	GCAL1-2A	↓	WMEB161094 5-1-05	↓	↓	↓	↓	↓	↓	↓
↓	↓	1000ppm Zr	Ultra Scientific	D0069/12-06	500ul	↓	↓	↓	↓	↓	↓
ICSA	125-405	Int A	Spex	26-132AS 9-30-05	8mL	200mL	Varied	102-53-14	AJW	12-21-04	1-27-05
			VOID								

000040

000278

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	125-36-1	21 element mix	CPI	41M044 3-15-06	2mL	200mL	Varied	102-53-5	AJW	12-13-04	1-13-05
		1000ppm Ca	Exaxol	040923 03-06	1800µL						
		Fe		040308 9-05							
		Mg		040923 3-06							
		Al		040520 11-05	2000µL						
		Na		040923 3-06							
		K		040923/3-06							
		B		030825 2-05	1000mL						
		Ba		030825/2-05	200µL						
		Sn		040721 7-05							
		Ag		040520/11-05							
3020 Spk	125-36-2	1000 ppm As	EXAXOL	030825/Feb.05	400 ul	100 ml	4.0 ppm	2% HNO_3	NZN	12/13/04	1/14/05
		" Se		030825/02.05							~~12/14~~
		" Tl		040721/01-06							NZN
ICV2 - Zr	125-36-3	1000ppm Zr	Exaxol	040721/ 7-05	50µL	50mL	1.00 ppm	102-53-5	AJW	12/14/04	1/14/05
CRDL stock AFCEE (MACTEC)	125-36-4	1000ppm Ba	Exaxol	030825/2-05	20µl	200ml	0.08 ppm	102-53-5	KSM	12-13-04	1-13-05
		Pb		030825/2-05	12µl		0.06 ppm				
		Ni		030630/1-05	40µl		0.2 ppm				
		Zn		030825/2-05	40µl		0.2 ppm				

000279

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
STD 1	125-31-1	GCALI-1A	inorganic Ventures	WMEB161095 5-1-05	5ml	500 ml	Varied	102-52-2	JAC	11-22-04	12-22-04
↓	↓	GCALI-2A	↓	WMEB161094 5-1-05	5ml	↓	↓	↓	↓	↓	↓
↓	↓	1000 ppm Zr	ultra scientific	D0069 12-06	500 ul	↓	↓	↓	↓	↓	↓
ICSA	125-31-2	Int A	Spex	26-132AS/9-30-05	8mL	200mL	Varied	102-52-2	AJW	11-28-04	12-26-04
Hg CCV 125-31-1	125-31-1	1000ppm Hg	Fraxol	040721 01/2006	100ml	100ml	1.0ppm	2% HNO3	NZN	11/29/04	12/30/04
Hg ICV 125-31-2	125-31-2	↓	CPI	31B003 ~~32B003~~ NZN 11/29/04 ~~12/30/04~~ 5/20/05	↓	↓	↓	↓	NZN	↓	↓
Top Oil Spike	125-31-3	Custom Blend	CONOSTANG	030205-1	1.0030	10.0008	10ppm	Base oil Lot#29			
Hg oil Spike	12531-4	100ppm Hg	↓	15516	1.0040	10.0094	↓	↓	JEL	11/29/04	12-29-04
As oil Spike	12531-5	100ppm As	↓	17712	1.0050	10.0040	↓	↓	↓	↓	↓
Se oil Spike	↓	↓	↓	14313	0.995	↓	↓	↓	↓	↓	↓

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
Hg ICV	334-34-1	1ppm Hg	in House	12523-2	1mL	10 mL	0.1ppm		JEL	10-29-04	10-29-05
$KMnO_4$	334-34-2	Potassium Permanganate	Fisher	577645					JEL	11-1-04	11-1-05
$K_2S_2O_8$	334-34-3	Potassium Persulfate	Fisher	035701					JEL	11-2-04	11-2-05
Hg Cali. CCV	334-34-4	1ppm Hg	in House	12523-1	1mL	10mL	0.1ppm		JEL	11-2-04	11-2-05
Hg Cali. ICV	334-34-5	↓	↓	12523-2	↓	↓	↓		↓	↓	↓
Hg Cali. CCV	334-34-6	1ppm Hg	in House	12523-1	1mL	10mL	0.1ppm		JEL	11-4-04	11-4-05 JEL 11-4-04
Hg Cali. ICV	334-34-7	↓	↓	12523-2	↓	↓	↓		↓	↓	↓
TopSpiking SINS	334-34-8	G-Cal 1A	Inorganic Venture	W-MEB161095 141095					JEL	11-5-04	5-1-05
↓	334-34-9	G ↓ Cal 2A	↓	W-MEB 161094					↓	↓	↓
Hg cali. CCV	334-34-10	1ppm Hg	in House	12523-1	1mL	10mL	0.1ppm		JEL	11-5-04	11-5-05
Hg cali. ICV	334-34-11	↓	↓	12523-2	↓	↓	↓		↓	↓	↓
HNO_3	334-34-12	CONC HNO_3	Fisher	1104050					JEL	11-10-04	11-10-05
HCL	334-34-13	CONC. HCL	Fisher	4103100					JEL	11-11-04	11-11-05
H_2O_2	334-34-14	CONC. H_2O_2	Fisher	040029					JEL	11-11-04	11-11-05
HNO_3	334-34-15	CONC. HNO_3	Fisher	1104060					JEL	11-12-04	11-12-05
Hg Cali. CCV	334-34-16	1ppm Hg	in House	12523-1	1mL	10mL	0.1ppm		JEL	11-12-04	11-12-05
Hg cali. ICV	334-34-17	↓	↓	↓	↓	↓	↓		↓	↓	↓
H_2SO_4	334-34-18	CONC H_2SO_4	Fisher	3103391					JEL	11-18-04	11-18-05
HNO_3	334-34-19	CONC HNO_3	Fisher	1104060					JEL	11-20-04	11-20-05
HCL	334-34-20	CONC HCL	Fisher	4104060					JEL	11-23-04	11-23-05
Hg cali CCV	334-34-21	1ppm Hg	~~Fisher~~ In House JEL 11-23-04	12523-1	1mL	10mL	0.1ppm		JEL	11-23-04	11-23-05
Hg cali ICV	334-34-22	↓	↓	12523-2	↓	↓	↓		↓	↓	↓

REAG LOG 1-6-95

000781

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20412290201	001-NFF-BFC-S-1228-04	Solid	12/28/2004 16:10	12/29/2004 08:55

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	12/29/2004 11:11	LMC2	285552

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	89.00	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20412290201	001-NFF-BFC-S-1228-04	Solid	12/28/2004 16:10	12/29/2004 08:55

9045C Solid - pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	12/29/2004 10:20	OLT	285550

CAS#	Parameter	Result	RDL	MDL	Units
pH	pH	5.04	1.00	1.00	pH unit

RESULTS REPORTED ON A DRY WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 285552	**Client ID**	001-NFF-BFC-S-1228-04	214965DUP
Prep Batch N/A	**GCAL ID**	20412290201	215018
	Sample Type	SAMPLE	DUP
	Analytical Date	12/29/2004 11:11	12/29/2004 11:11
	Matrix	Solid	Solid

2540 G Total Solids - Solid		**Units**	**%**	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
C-008	Total Solids	89.0	0.010	88.5	0.56	25

000784

General Chemistry Quality Control Summary

Analytical Batch 285550	**Client ID**	001-NFF-BFC-S-1228-04	214965DUP
Prep Batch N/A	**GCAL ID**	20412290201	215007
	Sample Type	SAMPLE	DUP
	Analytical Date	12/29/2004 10:20	12/29/2004 10:20
	Matrix	Solid	Solid

9045C Solid - pH		**Units**	pH unit	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
pH	pH	5.04	1.00	5.08	0.8	6

000785

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Date: 12-29-4

pH LOGBOOK

Slope Limits: 92-108

	Calibration Time	Analyst	Calibration Levels 1	2	3	Slope	QC Check Actual	Found
1	7:03	OLT	4.00	7.00	10.00	97.1	5.00	5.02
2								
3								
4								
5								
6								

pH RESULTS

HBN #: 285550

	Client	Sample ID	Time	Analyst	Sample wt (g)	ml DI	Result
1		204122902 01	10:20	OLT	20	20	5.04
2		DUP 204122902 01			20	20	5.08
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

12-29-04

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Date: 12-29-4

pH LOGBOOK

Slope Limits: 92-108

	Calibration Time	Analyst	Calibration Levels 1	2	3	Slope	QC Check Actual	Found
1	7:03	OLT	4.00	7.00	10.00	97.1	5.00	5.02
2								
3								
4								
5								
6								

pH RESULTS

HBN #: 285550

	Client	Sample ID	Time	Analyst	Sample wt (g)	ml DI	Result
1		204122902001	10:20	OLT	20	20	5.04
2		DUP 204122902001			20	20	5.08
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

TOTAL SOLIDS AND MOISTURE ANALYSIS (SOLID MATRIX)

	TS	DW										
HBN	285552	285553		ANALYST:	LMC2						DATE:	12/29/2004
SOLI	4576	4577		REVIEW:	CAE	12/30/04					TIME:	11:11:00
Sample ID	Pan ID	Pan Mass (g)	Initial Mass (g) (Sample & Pan)	Final Wt. 1 (g) (Sample & Pan)	Final Wt. 2 (g) (Sample & Pan)	Diff. (g)	Final Wt. 3 (g) (Sample & Pan)	Loss (g)	Initial Mass Less Pan (g)	Final Mass Less Pan (g)	Total Solid %	Total Moisture %
20412290201	1	1.2690	11.8748	10.7025	10.7037	0.0012	NA	0.0000	10.6058	9.4347	88.96	11.04
215018 Dup	2	1.2643	11.4141	10.2496	10.2491	0.0005	NA	0.0000	10.1498	8.9848	88.52	11.48
20412282701	3	1.2613	11.5921	3.8494	3.8430	0.0064	NA	0.0000	10.3308	2.5817	24.99	75.01

TS % = ((Final Sample Mass - Initial Sample Mass) x 100) / Initial Sample Mass

TM % = 100-TS%

Method 2540G

000788

CH2MHill / 4580 / 2041224UL / 1-3-05

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
283092-002 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.):
North Fuel Farm	283092 / 1033	Gulf Coast Labs. Dano Merril	Russell Henderson 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:	TO 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.):
Backfill Characterization Sampling (Re-Sample)	0001	801343	Randy Dumaop AGVIQ Environmental Services	6219 Authority Ave. Building 1 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.):
Sam Naik	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)	TCL Volatiles by 5035/8260B (GRAB)	TCL Semi-volatiles(8270C),TR PH (FL-PRO), Pesticides by 8081A, PCBs by 8082, Herbicides by 8151A, TAL Metals by 6010A/7471A, pH by 9045B						SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	001-NFF-BFC-S-1228-04	Characterization of fill material	S	12/28/04	16:10	III/C	7 Day	4	1						Grab / Composite		-1
2																	
3	001-TB-W-1228-04	Trip Blank	W	12/28/04	NA	III/C	7 Day	3							Grsb	Prepared by Lab	-2
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	
Randy Dumaop / Joeseph Calixte AGVIQ Environmental	Fed Ex Tracking # 7928 1118 3903.	6°

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R.Dumaop	12/28/2004	17:00	Fed Ex Tracking # 7928 1118 3903.	12/28/2004	17:00
Printed Name and Signature:			Printed Name and Signature:		
			Sam Naik	12-29-04	08:55
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

000789

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	204122902	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	Former NAS Cecli Field	**Status:**	WP
Project Seq:	26385	**Created:**	12/29/2004 9:21
Client:	4380 - CH2M Hill Constructors	**QA:**	
Profile:	64143 - TO-1 - Former NAS Cecli Field	**PO:**	801343

WORKORDER SAMPLES

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
20412290201-1	LC	NONE			X			X	OK
20412290201-2	OC	NONE			X			X	OK
20412290201-3	OC	NONE			X			X	OK
20412290201-4	OC	NONE			X			X	OK
20412290201-5	OC	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20412290202-1	40	HCL+STS			✓	✓			OK
20412290202-2	40	HCL+STS			✓	✓			OK

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_____ CUSTODIAN LSW

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 03/01/2005

GCAL Report 205021806

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 Former N.S. CECIL FIELD

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 205021806

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, sample 20502180605 (05283WC2W050217) had to be diluted due to compounds that were detected above the linear range of the calibration.

In the SW-846 8260B analysis for analytical batch 287760, the MS/MSD exhibited sporadic recovery failures. The LCS/LCSD exhibited marginal sporadic recovery failures for the extended list of spike compounds.

SEMI-VOLATILES MASS SPECTROMETRY

In the SW-846 8270C analysis prep batch 287820, Benzaldehyde was recovered outside of the established control limits for the LCS and LCSD.

In the SW-846 8270C analysis, sample 20502180605 (05283WC2W050217) had to be diluted due to non-target background. The dilution is reflected in the elevated detection limits. All the surrogate recoveries are reported as "DO" (diluted out) due to the dilution performed on the sample.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8082 analysis sample 20502180605 (05283WC2W050217) had to be diluted to bracket target compounds within the calibration range of the instrument. This is reflected in elevated reporting limits. The surrogate recovery for Decachlorobiphenyl is reported as "DO" (diluted out) due to the dilution performed on this sample.

In the SW-846 8151A and 8081A analyses of sample 20502180605 (05283WC2W050217), the sample required a dilution prior to analysis to eliminate the interference of non-target background. This dilution is reflected in elevated detection limits. The surrogate recoveries for DCAA, Tetrachloro-m-xylene and Decachlorobiphenyl are reported as "DO" (diluted out) due to the dilution performed on this sample.

METALS

In the SW-846 6010B analysis for prep batch 287795, the MS and MSD recoveries were outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix

interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 104%. The MS recovery is not applicable for Zinc because the sample concentration is greater than four times the spike concentration. The MS/MSD recoveries and RPD are not applicable for Calcium, Iron, and Magnesium because the sample concentration is greater than four times the spike concentration. The sample/duplicate RPD for Silver, Nickel, Chromium, Beryllium, Arsenic, Antimony, and Aluminum is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

In the SW-846 1311/6010B analysis the sample/duplicate RPD for Silver, Cadmium, and Arsenic for prep batch 287824 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

Arsenic was detected in the continuing calibration blank for prep batch 287941. The concentration was insignificant compared to the concentration detected in the sample.

Barium, Copper, Magnesium, and Sodium are flagged as estimated for samples associated with prep batch 287795 due to the fact that the percent difference between the original sample results and the serial dilution results are greater than 10. A chemical or physical interference is suspected.

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 205021806

THIS REPORT CONTAINS 378 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180601	05283WC1W050217	Solid	02/17/2005 11:50	02/18/2005 09:20
20502180602	05283WC1W050217 (TCLP)	Solid	02/17/2005 11:50	02/18/2005 09:20
20502180603	05283WC4W050217	Solid	02/17/2005 15:45	02/18/2005 09:20
20502180604	05283WC4W050217 (TCLP)	Solid	02/17/2005 15:45	02/18/2005 09:20
20502180605	05283WC2W050217	Water	02/17/2005 12:15	02/18/2005 09:20
20502180606	05283TB1W050217	Water		02/18/2005 09:20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC1W050217 (TCLP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20502180602

Level: (low/med) LOW Lab File ID: 2050222/U0403

% Moisture: not dec. Date Collected: 02/17/05 Time: 1150

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1707

Soil Extract Volume: (µL) Dilution Factor: 40 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	0.200	U	0.019	0.200
107-06-2	1,2-Dichloroethane	0.200	U	0.017	0.200
78-93-3	2-Butanone	0.200	U	0.022	0.200
71-43-2	Benzene	0.200	U	0.017	0.200
56-23-5	Carbon tetrachloride	0.200	U	0.014	0.200
108-90-7	Chlorobenzene	0.200	U	0.018	0.200
67-66-3	Chloroform	0.200	U	0.018	0.200
127-18-4	Tetrachloroethene	0.200	U	0.016	0.200
79-01-6	Trichloroethene	0.200	U	0.017	0.200
75-01-4	Vinyl chloride	0.200	U	0.00708	0.200

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC4W050217 (TCLP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20502180604

Level: (low/med) LOW Lab File ID: 2050222/U0404

% Moisture: not dec. Date Collected: 02/17/05 Time: 1545

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1730

Soil Extract Volume: (µL) Dilution Factor: 40 Analyst: KCB

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	0.200	U	0.019	0.200
107-06-2	1,2-Dichloroethane	0.200	U	0.017	0.200
78-93-3	2-Butanone	0.200	U	0.022	0.200
71-43-2	Benzene	0.200	U	0.017	0.200
56-23-5	Carbon tetrachloride	0.200	U	0.014	0.200
108-90-7	Chlorobenzene	0.200	U	0.018	0.200
67-66-3	Chloroform	0.200	U	0.018	0.200
127-18-4	Tetrachloroethene	0.200	U	0.016	0.200
79-01-6	Trichloroethene	0.200	U	0.017	0.200
75-01-4	Vinyl chloride	0.200	U	0.00708	0.200

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC2W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20502180605

Level: (low/med) LOW Lab File ID: 2050220/S8712

% Moisture: not dec. Date Collected: 02/17/05 Time: 1215

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1423

Soil Extract Volume: (µL) Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	50.0	U	8.48	50.0
79-34-5	1,1,2,2-Tetrachloroethane	2.00	U	2.00	2.00
79-00-5	1,1,2-Trichloroethane	50.0	U	8.51	50.0
75-34-3	1,1-Dichloroethane	50.0	U	8.22	50.0
75-35-4	1,1-Dichloroethene	50.0	U	8.96	50.0
120-82-1	1,2,4-Trichlorobenzene	50.0	U	3.67	50.0
96-12-8	1,2-Dibromo-3-chloropropane	2.00	U	2.00	2.00
106-93-4	1,2-Dibromoethane	2.00	U	2.00	2.00
95-50-1	1,2-Dichlorobenzene	50.0	U	5.31	50.0
107-06-2	1,2-Dichloroethane	30.0	U	8.21	30.0
78-87-5	1,2-Dichloropropane	50.0	U	7.34	50.0
541-73-1	1,3-Dichlorobenzene	50.0	U	6.86	50.0
106-46-7	1,4-Dichlorobenzene	50.0	U	4.71	50.0
78-93-3	2-Butanone	673		8.17	100
591-78-6	2-Hexanone	100	U	8.33	100
108-10-1	4-Methyl-2-pentanone	216		8.20	100
67-64-1	Acetone	151		9.32	100
71-43-2	Benzene	317		8.36	10.0
75-27-4	Bromodichloromethane	6.00	U	6.00	6.00
75-25-2	Bromoform	40.0	U	7.42	40.0
74-83-9	Bromomethane	50.0	U	9.62	50.0
75-15-0	Carbon disulfide	50.0	U	7.64	50.0
56-23-5	Carbon tetrachloride	30.0	U	8.48	30.0
108-90-7	Chlorobenzene	50.0	U	7.13	50.0
75-00-3	Chloroethane	50.0	U	8.20	50.0
67-66-3	Chloroform	50.0	U	9.19	50.0
74-87-3	Chloromethane	27.0	U	8.23	27.0
110-82-7	Cyclohexane	50.0	U	10.0	50.0
124-48-1	Dibromochloromethane	4.00	U	4.00	4.00
75-71-8	Dichlorodifluoromethane	50.0	U	8.02	50.0
10061-01-5	cis-1,3-Dichloropropene	50.0	U	7.57	50.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC2W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

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

Lab Sample ID: 20502180605

Level: (low/med) LOW

Lab File ID: 2050220/S8712

% Moisture: not dec.

Date Collected: 02/17/05 Time: 1215

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

Date Received: 02/18/05

Instrument ID: MSV3

Date Analyzed: 02/20/05 Time: 1423

Soil Extract Volume: (µL)

Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 287760

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	50.0	U	6.33	50.0
100-41-4	Ethylbenzene	62.6		6.90	50.0
98-82-8	Isopropylbenzene (Cumene)	50.0	U	5.58	50.0
79-20-9	Methyl Acetate	50.0	U	10.0	50.0
108-87-2	Methylcyclohexane	50.0	U	10.0	50.0
75-09-2	Methylene chloride	50.0	U	7.48	50.0
100-42-5	Styrene	50.0	U	6.99	50.0
127-18-4	Tetrachloroethene	30.0	U	6.92	30.0
108-88-3	Toluene	713		6.78	50.0
79-01-6	Trichloroethene	30.0	U	9.89	30.0
75-69-4	Trichlorofluoromethane	50.0	U	9.26	50.0
76-13-1	Trichlorotrifluoroethane	50.0	U	4.80	50.0
75-01-4	Vinyl chloride	10.0	U	10.0	10.0
1330-20-7	Xylene (total)	628		22.4	50.0
156-59-2	cis-1,2-Dichloroethene	50.0	U	7.51	50.0
1634-04-4	tert-Butyl methyl ether (MTBE)	460		5.31	50.0
156-60-5	trans-1,2-Dichloroethene	50.0	U	7.35	50.0

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283TB1W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20502180606

Level: (low/med) LOW Lab File ID: 2050220/S8720

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1809

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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	0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.851	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.822	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.200	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.531	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.821	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.734	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.686	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.471	5.00
78-93-3	2-Butanone	10.0	U	0.817	10.0
591-78-6	2-Hexanone	10.0	U	0.833	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.820	10.0
67-64-1	Acetone	10.0	U	0.932	10.0
71-43-2	Benzene	1.00	U	0.836	1.00
75-27-4	Bromodichloromethane	0.600	U	0.600	0.600
75-25-2	Bromoform	4.00	U	0.742	4.00
74-83-9	Bromomethane	5.00	U	0.962	5.00
75-15-0	Carbon disulfide	5.00	U	0.764	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.848	3.00
108-90-7	Chlorobenzene	5.00	U	0.713	5.00
75-00-3	Chloroethane	5.00	U	0.820	5.00
67-66-3	Chloroform	5.00	U	0.919	5.00
74-87-3	Chloromethane	2.70	U	0.823	2.70
110-82-7	Cyclohexane	5.00	U	1.00	5.00
124-48-1	Dibromochloromethane	0.400	U	0.400	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.757	5.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
05283TB1W050217

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 20502180606

Level: (low/med) LOW Lab File ID: 2050220/S8720

% Moisture: not dec. Date Collected: Time:

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1809

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.633	5.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.558	5.00
79-20-9	Methyl Acetate	5.00	U	1.00	5.00
108-87-2	Methylcyclohexane	5.00	U	1.00	5.00
75-09-2	Methylene chloride	5.00	U	0.748	5.00
100-42-5	Styrene	5.00	U	0.699	5.00
127-18-4	Tetrachloroethene	3.00	U	0.692	3.00
108-88-3	Toluene	5.00	U	0.678	5.00
79-01-6	Trichloroethene	3.00	U	0.989	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.926	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.480	5.00
75-01-4	Vinyl chloride	1.00	U	1.00	1.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.735	5.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB224414

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224414

Level: (low/med) LOW Lab File ID: 2050220/S8710

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1308

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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	0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	0.200	U	0.200	0.200
79-00-5	1,1,2-Trichloroethane	5.00	U	0.851	5.00
75-34-3	1,1-Dichloroethane	5.00	U	0.822	5.00
75-35-4	1,1-Dichloroethene	5.00	U	0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	0.200	U	0.200	0.200
106-93-4	1,2-Dibromoethane	0.200	U	0.200	0.200
95-50-1	1,2-Dichlorobenzene	5.00	U	0.531	5.00
107-06-2	1,2-Dichloroethane	3.00	U	0.821	3.00
78-87-5	1,2-Dichloropropane	5.00	U	0.734	5.00
541-73-1	1,3-Dichlorobenzene	5.00	U	0.686	5.00
106-46-7	1,4-Dichlorobenzene	5.00	U	0.471	5.00
78-93-3	2-Butanone	10.0	U	0.817	10.0
591-78-6	2-Hexanone	10.0	U	0.833	10.0
108-10-1	4-Methyl-2-pentanone	10.0	U	0.820	10.0
67-64-1	Acetone	10.0	U	0.932	10.0
71-43-2	Benzene	1.00	U	0.836	1.00
75-27-4	Bromodichloromethane	0.600	U	0.600	0.600
75-25-2	Bromoform	4.00	U	0.742	4.00
74-83-9	Bromomethane	5.00	U	0.962	5.00
75-15-0	Carbon disulfide	5.00	U	0.764	5.00
56-23-5	Carbon tetrachloride	3.00	U	0.848	3.00
108-90-7	Chlorobenzene	5.00	U	0.713	5.00
75-00-3	Chloroethane	5.00	U	0.820	5.00
67-66-3	Chloroform	5.00	U	0.919	5.00
74-87-3	Chloromethane	2.70	U	0.823	2.70
110-82-7	Cyclohexane	5.00	U	1.00	5.00
124-48-1	Dibromochloromethane	0.400	U	0.400	0.400
75-71-8	Dichlorodifluoromethane	5.00	U	0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.757	5.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB224414

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224414

Level: (low/med) LOW Lab File ID: 2050220/S8710

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1308

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	5.00	U	0.633	5.00
100-41-4	Ethylbenzene	5.00	U	0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	5.00	U	0.558	5.00
79-20-9	Methyl Acetate	5.00	U	1.00	5.00
108-87-2	Methylcyclohexane	5.00	U	1.00	5.00
75-09-2	Methylene chloride	5.00	U	0.748	5.00
100-42-5	Styrene	5.00	U	0.699	5.00
127-18-4	Tetrachloroethene	3.00	U	0.692	3.00
108-88-3	Toluene	5.00	U	0.678	5.00
79-01-6	Trichloroethene	3.00	U	0.989	3.00
75-69-4	Trichlorofluoromethane	5.00	U	0.926	5.00
76-13-1	Trichlorotrifluoroethane	5.00	U	0.480	5.00
75-01-4	Vinyl chloride	1.00	U	1.00	1.00
1330-20-7	Xylene (total)	5.00	U	2.24	5.00
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.531	5.00
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.735	5.00

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
MB224853

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224853

Level: (low/med) LOW Lab File ID: 2050222/U0401

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1622

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	0.00500	U	0.00047	0.00500
107-06-2	1,2-Dichloroethane	0.00500	U	0.00043	0.00500
78-93-3	2-Butanone	0.00500	U	0.00055	0.00500
71-43-2	Benzene	0.00500	U	0.00042	0.00500
56-23-5	Carbon tetrachloride	0.00500	U	0.00035	0.00500
108-90-7	Chlorobenzene	0.00500	U	0.00046	0.00500
67-66-3	Chloroform	0.00500	U	0.00046	0.00500
127-18-4	Tetrachloroethene	0.00500	U	0.00041	0.00500
79-01-6	Trichloroethene	0.00500	U	0.00042	0.00500
75-01-4	Vinyl chloride	0.00500	U	0.00018	0.00500

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS224854

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224854

Level: (low/med) LOW Lab File ID: 2050222/U0399

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1537

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	0.026		0.00047	0.00500
107-06-2	1,2-Dichloroethane	0.027		0.00043	0.00500
78-93-3	2-Butanone	0.028		0.00055	0.00500
71-43-2	Benzene	0.026		0.00042	0.00500
56-23-5	Carbon tetrachloride	0.021		0.00035	0.00500
108-90-7	Chlorobenzene	0.024		0.00046	0.00500
67-66-3	Chloroform	0.024		0.00046	0.00500
127-18-4	Tetrachloroethene	0.023		0.00041	0.00500
79-01-6	Trichloroethene	0.024		0.00042	0.00500
75-01-4	Vinyl chloride	0.026		0.00018	0.00500

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
LCS224415

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224415

Level: (low/med) LOW Lab File ID: 2050220/S8708

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1138

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	26.2		0.848	5.00
79-34-5	1,1,2,2-Tetrachloroethane	29.4		0.200	0.200
79-00-5	1,1,2-Trichloroethane	27.9		0.851	5.00
75-34-3	1,1-Dichloroethane	24.2		0.822	5.00
75-35-4	1,1-Dichloroethene	25.6		0.896	5.00
120-82-1	1,2,4-Trichlorobenzene	27.2		0.367	5.00
96-12-8	1,2-Dibromo-3-chloropropane	25.5		0.200	0.200
106-93-4	1,2-Dibromoethane	29.2		0.200	0.200
95-50-1	1,2-Dichlorobenzene	24.8		0.531	5.00
107-06-2	1,2-Dichloroethane	24.5		0.821	3.00
78-87-5	1,2-Dichloropropane	23.5		0.734	5.00
541-73-1	1,3-Dichlorobenzene	28.5		0.686	5.00
106-46-7	1,4-Dichlorobenzene	28.6		0.471	5.00
78-93-3	2-Butanone	25.1		0.817	10.0
591-78-6	2-Hexanone	27.8		0.833	10.0
108-10-1	4-Methyl-2-pentanone	23.6		0.820	10.0
67-64-1	Acetone	27.9		0.932	10.0
71-43-2	Benzene	26.2		0.836	1.00
75-27-4	Bromodichloromethane	24.4		0.600	0.600
75-25-2	Bromoform	27.9		0.742	4.00
74-83-9	Bromomethane	27.8		0.962	5.00
75-15-0	Carbon disulfide	25.9		0.764	5.00
56-23-5	Carbon tetrachloride	26.2		0.848	3.00
108-90-7	Chlorobenzene	28.6		0.713	5.00
75-00-3	Chloroethane	26.8		0.820	5.00
67-66-3	Chloroform	23.7		0.919	5.00
74-87-3	Chloromethane	24.7		0.823	2.70
110-82-7	Cyclohexane	24.5		1.00	5.00
124-48-1	Dibromochloromethane	28.8		0.400	0.400
75-71-8	Dichlorodifluoromethane	26.1		0.802	5.00
10061-01-5	cis-1,3-Dichloropropene	24.5		0.757	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS224415

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224415

Level: (low/med) LOW Lab File ID: 2050220/S8708

% Moisture: not dec. Date Collected: Time:

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

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1138

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	25.4		0.633	5.00
100-41-4	Ethylbenzene	28.3		0.690	5.00
98-82-8	Isopropylbenzene (Cumene)	28.3		0.558	5.00
79-20-9	Methyl Acetate	22.2		1.00	5.00
108-87-2	Methylcyclohexane	24.3		1.00	5.00
75-09-2	Methylene chloride	23.8		0.748	5.00
100-42-5	Styrene	28.7		0.699	5.00
127-18-4	Tetrachloroethene	28.1		0.692	3.00
108-88-3	Toluene	24.7		0.678	5.00
79-01-6	Trichloroethene	25.8		0.989	3.00
75-69-4	Trichlorofluoromethane	27.6		0.926	5.00
76-13-1	Trichlorotrifluoroethane	26.7		0.480	5.00
75-01-4	Vinyl chloride	25.6		1.00	1.00
1330-20-7	Xylene (total)	86.4		2.24	5.00
156-59-2	cis-1,2-Dichloroethene	25.7		0.751	5.00
1634-04-4	tert-Butyl methyl ether (MTBE)	25.1		0.531	5.00
156-60-5	trans-1,2-Dichloroethene	25.3		0.735	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC2W050217MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224416

Level: (low/med) LOW Lab File ID: 2050220/S8713MS

% Moisture: not dec. Date Collected: 02/17/05 Time: 1215

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1511

Soil Extract Volume: (µL) Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	229		8.48	50.0
79-34-5	1,1,2,2-Tetrachloroethane	278		2.00	2.00
79-00-5	1,1,2-Trichloroethane	308		8.51	50.0
75-34-3	1,1-Dichloroethane	228		8.22	50.0
75-35-4	1,1-Dichloroethene	234		8.96	50.0
120-82-1	1,2,4-Trichlorobenzene	276		3.67	50.0
96-12-8	1,2-Dibromo-3-chloropropane	299		2.00	2.00
106-93-4	1,2-Dibromoethane	302		2.00	2.00
95-50-1	1,2-Dichlorobenzene	256		5.31	50.0
107-06-2	1,2-Dichloroethane	240		8.21	30.0
78-87-5	1,2-Dichloropropane	225		7.34	50.0
541-73-1	1,3-Dichlorobenzene	251		6.86	50.0
106-46-7	1,4-Dichlorobenzene	252		4.71	50.0
78-93-3	2-Butanone	951		8.17	100
591-78-6	2-Hexanone	302		8.33	100
108-10-1	4-Methyl-2-pentanone	526		8.20	100
67-64-1	Acetone	380		9.32	100
71-43-2	Benzene	557		8.36	10.0
75-27-4	Bromodichloromethane	224		6.00	6.00
75-25-2	Bromoform	256		7.42	40.0
74-83-9	Bromomethane	249		9.62	50.0
75-15-0	Carbon disulfide	245		7.64	50.0
56-23-5	Carbon tetrachloride	229		8.48	30.0
108-90-7	Chlorobenzene	240		7.13	50.0
75-00-3	Chloroethane	221		8.20	50.0
67-66-3	Chloroform	220		9.19	50.0
74-87-3	Chloromethane	216		8.23	27.0
110-82-7	Cyclohexane	219		10.0	50.0
124-48-1	Dibromochloromethane	299		4.00	4.00
75-71-8	Dichlorodifluoromethane	222		8.02	50.0
10061-01-5	cis-1,3-Dichloropropene	233		7.57	50.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC2W050217MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224416

Level: (low/med) LOW Lab File ID: 2050220/S8713MS

% Moisture: not dec. Date Collected: 02/17/05 Time: 1215

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1511

Soil Extract Volume: (µL) Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	240		6.33	50.0
100-41-4	Ethylbenzene	306		6.90	50.0
98-82-8	Isopropylbenzene (Cumene)	248		5.58	50.0
79-20-9	Methyl Acetate	200		10.0	50.0
108-87-2	Methylcyclohexane	225		10.0	50.0
75-09-2	Methylene chloride	223		7.48	50.0
100-42-5	Styrene	257		6.99	50.0
127-18-4	Tetrachloroethene	275		6.92	30.0
108-88-3	Toluene	1030		6.78	50.0
79-01-6	Trichloroethene	229		9.89	30.0
75-69-4	Trichlorofluoromethane	211		9.26	50.0
76-13-1	Trichlorotrifluoroethane	230		4.80	50.0
75-01-4	Vinyl chloride	223		10.0	10.0
1330-20-7	Xylene (total)	1460		22.4	50.0
156-59-2	cis-1,2-Dichloroethene	235		7.51	50.0
1634-04-4	tert-Butyl methyl ether (MTBE)	760		5.31	50.0
156-60-5	trans-1,2-Dichloroethene	227		7.35	50.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
05283WC2W050217MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224417

Level: (low/med) LOW Lab File ID: 2050220/S8714MSD

% Moisture: not dec. Date Collected: 02/17/05 Time: 1215

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1533

Soil Extract Volume: (µL) Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

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

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
71-55-6	1,1,1-Trichloroethane	226		8.48	50.0
79-34-5	1,1,2,2-Tetrachloroethane	279		2.00	2.00
79-00-5	1,1,2-Trichloroethane	257		8.51	50.0
75-34-3	1,1-Dichloroethane	225		8.22	50.0
75-35-4	1,1-Dichloroethene	221		8.96	50.0
120-82-1	1,2,4-Trichlorobenzene	297		3.67	50.0
96-12-8	1,2-Dibromo-3-chloropropane	303		2.00	2.00
106-93-4	1,2-Dibromoethane	278		2.00	2.00
95-50-1	1,2-Dichlorobenzene	261		5.31	50.0
107-06-2	1,2-Dichloroethane	235		8.21	30.0
78-87-5	1,2-Dichloropropane	226		7.34	50.0
541-73-1	1,3-Dichlorobenzene	255		6.86	50.0
106-46-7	1,4-Dichlorobenzene	252		4.71	50.0
78-93-3	2-Butanone	950		8.17	100
591-78-6	2-Hexanone	275		8.33	100
108-10-1	4-Methyl-2-pentanone	550		8.20	100
67-64-1	Acetone	341		9.32	100
71-43-2	Benzene	555		8.36	10.0
75-27-4	Bromodichloromethane	222		6.00	6.00
75-25-2	Bromoform	259		7.42	40.0
74-83-9	Bromomethane	223		9.62	50.0
75-15-0	Carbon disulfide	259		7.64	50.0
56-23-5	Carbon tetrachloride	224		8.48	30.0
108-90-7	Chlorobenzene	249		7.13	50.0
75-00-3	Chloroethane	206		8.20	50.0
67-66-3	Chloroform	214		9.19	50.0
74-87-3	Chloromethane	219		8.23	27.0
110-82-7	Cyclohexane	219		10.0	50.0
124-48-1	Dibromochloromethane	259		4.00	4.00
75-71-8	Dichlorodifluoromethane	221		8.02	50.0
10061-01-5	cis-1,3-Dichloropropene	233		7.57	50.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

05283WC2W050217MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Water

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224417

Level: (low/med) LOW Lab File ID: 2050220/S8714MSD

% Moisture: not dec. Date Collected: 02/17/05 Time: 1215

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/18/05

Instrument ID: MSV3 Date Analyzed: 02/20/05 Time: 1533

Soil Extract Volume: (µL) Dilution Factor: 10 Analyst: JCK

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287760

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
10061-02-6	trans-1,3-Dichloropropene	238		6.33	50.0
100-41-4	Ethylbenzene	312		6.90	50.0
98-82-8	Isopropylbenzene (Cumene)	258		5.58	50.0
79-20-9	Methyl Acetate	203		10.0	50.0
108-87-2	Methylcyclohexane	229		10.0	50.0
75-09-2	Methylene chloride	219		7.48	50.0
100-42-5	Styrene	261		6.99	50.0
127-18-4	Tetrachloroethene	239		6.92	30.0
108-88-3	Toluene	1030		6.78	50.0
79-01-6	Trichloroethene	233		9.89	30.0
75-69-4	Trichlorofluoromethane	227		9.26	50.0
76-13-1	Trichlorotrifluoroethane	226		4.80	50.0
75-01-4	Vinyl chloride	226		10.0	10.0
1330-20-7	Xylene (total)	1410		22.4	50.0
156-59-2	cis-1,2-Dichloroethene	230		7.51	50.0
1634-04-4	tert-Butyl methyl ether (MTBE)	767		5.31	50.0
156-60-5	trans-1,2-Dichloroethene	226		7.35	50.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MIXED BED RESIN-C...MS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224879

Level: (low/med) LOW Lab File ID: 2050222/U0405MS

% Moisture: not dec. Date Collected: 02/15/05 Time: 1000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/15/05

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1753

Soil Extract Volume: (µL) Dilution Factor: 40 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	0.980		0.019	0.200
107-06-2	1,2-Dichloroethane	1.08		0.017	0.200
78-93-3	2-Butanone	0.899		0.022	0.200
71-43-2	Benzene	1.05		0.017	0.200
56-23-5	Carbon tetrachloride	0.987		0.014	0.200
108-90-7	Chlorobenzene	0.922		0.018	0.200
67-66-3	Chloroform	1.01		0.018	0.200
127-18-4	Tetrachloroethene	0.897		0.016	0.200
79-01-6	Trichloroethene	0.956		0.017	0.200
75-01-4	Vinyl chloride	1.04		0.00708	0.200

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MIXED BED RESIN-...MSD

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix: (soil/water) Soil

Sample wt/vol: 5 (g/ml) mL Lab Sample ID: 224880

Level: (low/med) LOW Lab File ID: 2050222/U0406MSD

% Moisture: not dec. Date Collected: 02/15/05 Time: 1000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 02/15/05

Instrument ID: MSV4 Date Analyzed: 02/22/05 Time: 1816

Soil Extract Volume: (µL) Dilution Factor: 40 Analyst: MEF

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 287866

CONCENTRATION UNITS: mg/L Analytical Method: 1311/8260B

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
75-35-4	1,1-Dichloroethene	1.06		0.019	0.200
107-06-2	1,2-Dichloroethane	1.11		0.017	0.200
78-93-3	2-Butanone	0.878		0.022	0.200
71-43-2	Benzene	1.09		0.017	0.200
56-23-5	Carbon tetrachloride	1.04		0.014	0.200
108-90-7	Chlorobenzene	1.02		0.018	0.200
67-66-3	Chloroform	1.05		0.018	0.200
127-18-4	Tetrachloroethene	1.02		0.016	0.200
79-01-6	Trichloroethene	0.989		0.017	0.200
75-01-4	Vinyl chloride	1.10		0.00708	0.200

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	05283WC2W050217	86		82		78		73		0
2.	05283TB1W050217	83		86		86		81		0
3.	05283WC2W050217MS	84		84		84		76		0
4.	05283WC2W050217MSD	87		83		85		77		0
5.	LCS224415	86		82		80		77		0
6.	MB224414	84		86		80		79		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	73 - 125
SMC 3	Toluene-d8	78 - 127
SMC 4	1,2-Dichloroethane-d4	70 - 123

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	LCS224854	91		103		104		103		0
2.	MB224853	90		103		106		101		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	73 - 125
SMC 3	Toluene-d8	78 - 127
SMC 4	1,2-Dichloroethane-d4	70 - 123

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Method: 1311/8260B

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1.	05283WC1W050217 (TCLP)	90		106		105		103		0
2.	05283WC4W050217 (TCLP)	88		105		105		102		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	75 - 120
SMC 2	Dibromofluoromethane	73 - 125
SMC 3	Toluene-d8	78 - 127
SMC 4	1,2-Dichloroethane-d4	70 - 123

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix Spike - EPA Sample No: 05283WC2W050217

Analytical Batch: 287760

SAMPLE NO. : 224416

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	250	0	229	92		75 - 124
1,1,2,2-Tetrachloroethane	ug/L	250	0	278	111		58 - 130
1,1,2-Trichloroethane	ug/L	250	0	308	123	*	78 - 112
1,1-Dichloroethane	ug/L	250	0	228	91		74 - 125
1,1-Dichloroethene	ug/L	250	0	234	94		72 - 138
1,2,4-Trichlorobenzene	ug/L	250	0	276	110		51 - 141
1,2-Dibromo-3-chloropropane	ug/L	250	0	299	120		56 - 128
1,2-Dibromoethane	ug/L	250	0	302	121	*	77 - 113
1,2-Dichlorobenzene	ug/L	250	0	256	102		78 - 113
1,2-Dichloroethane	ug/L	250	0	240	96		74 - 128
1,2-Dichloropropane	ug/L	250	0	225	90		77 - 121
1,3-Dichlorobenzene	ug/L	250	0	251	100		74 - 119
1,4-Dichlorobenzene	ug/L	250	0	252	101		79 - 114
2-Butanone	ug/L	250	673	951	111		62 - 129
2-Hexanone	ug/L	250	0	302	121		53 - 135
4-Methyl-2-pentanone	ug/L	250	216	526	124		58 - 131
Acetone	ug/L	250	151	380	92		38 - 145
Benzene	ug/L	250	317	557	96		77 - 119
Bromodichloromethane	ug/L	250	0	224	90		75 - 113
Bromoform	ug/L	250	0	256	102		64 - 127
Bromomethane	ug/L	250	0	249	100		56 - 156
Carbon disulfide	ug/L	250	0	245	98		67 - 130
Carbon tetrachloride	ug/L	250	0	229	92		71 - 129
Chlorobenzene	ug/L	250	0	240	96		78 - 116
Chloroethane	ug/L	250	0	221	88		56 - 145
Chloroform	ug/L	250	0	220	88		67 - 122
Chloromethane	ug/L	250	0	216	86		60 - 139
Cyclohexane	ug/L	250	0	219	88		69 - 126
Dibromochloromethane	ug/L	250	0	299	120	*	76 - 113
Dichlorodifluoromethane	ug/L	250	0	222	89		60 - 120
Ethylbenzene	ug/L	250	62.6	306	97		76 - 118
Isopropylbenzene (Cumene)	ug/L	250	0	248	99		74 - 119
Methyl Acetate	ug/L	250	0	200	80		14 - 226
Methylcyclohexane	ug/L	250	0	225	90		71 - 127
Methylene chloride	ug/L	250	0	223	89		59 - 143

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 6 out of 96 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix Spike - EPA Sample No: 05283WC2W050217

Analytical Batch: 287760

Styrene	ug/L	250	0	257	103		78 - 118
Tetrachloroethene	ug/L	250	0	275	110		74 - 122
Toluene	ug/L	250	713	1030	127	*	78 - 114
Trichloroethene	ug/L	250	0	229	92		67 - 126
Trichlorofluoromethane	ug/L	250	0	211	84		53 - 144
Trichlorotrifluoroethane	ug/L	250	0	230	92		67 - 132
Vinyl chloride	ug/L	250	0	223	89		67 - 133
Xylene (total)	ug/L	750	628	1460	111		77 - 119
cis-1,2-Dichloroethene	ug/L	250	0	235	94		76 - 123
cis-1,3-Dichloropropene	ug/L	250	0	233	93		74 - 121
tert-Butyl methyl ether (MTBE)	ug/L	250	460	760	120		61 - 135
trans-1,2-Dichloroethene	ug/L	250	0	227	91		72 - 130
trans-1,3-Dichloropropene	ug/L	250	0	240	96		77 - 114

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 6 out of 96 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix Spike - EPA Sample No: 05283WC2W050217

Analytical Batch: 287760

SAMPLE NO. : 224417

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1,1-Trichloroethane	ug/L	250	226	90		1		75 - 124	0 - 30
1,1,2,2-Tetrachloroethane	ug/L	250	279	112		.4		58 - 130	0 - 30
1,1,2-Trichloroethane	ug/L	250	257	103		18		78 - 112	0 - 30
1,1-Dichloroethane	ug/L	250	225	90		1		74 - 125	0 - 30
1,1-Dichloroethene	ug/L	250	221	88		6		72 - 138	0 - 14
1,2,4-Trichlorobenzene	ug/L	250	297	119		7		51 - 141	0 - 30
1,2-Dibromo-3-chloropropane	ug/L	250	303	121		1		56 - 128	0 - 30
1,2-Dibromoethane	ug/L	250	278	111		8		77 - 113	0 - 30
1,2-Dichlorobenzene	ug/L	250	261	104		2		78 - 113	0 - 30
1,2-Dichloroethane	ug/L	250	235	94		2		74 - 128	0 - 30
1,2-Dichloropropane	ug/L	250	226	90		.4		77 - 121	0 - 30
1,3-Dichlorobenzene	ug/L	250	255	102		2		74 - 119	0 - 30
1,4-Dichlorobenzene	ug/L	250	252	101		0		79 - 114	0 - 30
2-Butanone	ug/L	250	950	111		.1		62 - 129	0 - 30
2-Hexanone	ug/L	250	275	110		9		53 - 135	0 - 30
4-Methyl-2-pentanone	ug/L	250	550	134	*	4		58 - 131	0 - 30
Acetone	ug/L	250	341	76		11		38 - 145	0 - 30
Benzene	ug/L	250	555	95		.4		77 - 119	0 - 11
Bromodichloromethane	ug/L	250	222	89		.9		75 - 113	0 - 30
Bromoform	ug/L	250	259	104		1		64 - 127	0 - 30
Bromomethane	ug/L	250	223	89		11		56 - 156	0 - 30
Carbon disulfide	ug/L	250	259	104		6		67 - 130	0 - 30
Carbon tetrachloride	ug/L	250	224	90		2		71 - 129	0 - 30
Chlorobenzene	ug/L	250	249	100		4		78 - 116	0 - 13
Chloroethane	ug/L	250	206	82		7		56 - 145	0 - 30
Chloroform	ug/L	250	214	86		3		67 - 122	0 - 30
Chloromethane	ug/L	250	219	88		1		60 - 139	0 - 30
Cyclohexane	ug/L	250	219	88		0		69 - 126	0 - 30
Dibromochloromethane	ug/L	250	259	104		14		76 - 113	0 - 30
Dichlorodifluoromethane	ug/L	250	221	88		.5		60 - 120	0 - 30
Ethylbenzene	ug/L	250	312	100		2		76 - 118	0 - 30
Isopropylbenzene (Cumene)	ug/L	250	258	103		4		74 - 119	0 - 30
Methyl Acetate	ug/L	250	203	81		1		14 - 226	0 - 30
Methylcyclohexane	ug/L	250	229	92		2		71 - 127	0 - 30
Methylene chloride	ug/L	250	219	88		2		59 - 143	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 6 out of 96 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Matrix Spike - EPA Sample No: 05283WC2W050217

Analytical Batch: 287760

Styrene	ug/L	250	261	104		2		78 - 118	0 - 30
Tetrachloroethene	ug/L	250	239	96		14		74 - 122	0 - 30
Toluene	ug/L	250	1030	127	*	0		78 - 114	0 - 13
Trichloroethene	ug/L	250	233	93		2		67 - 126	0 - 14
Trichlorofluoromethane	ug/L	250	227	91		7		53 - 144	0 - 30
Trichlorotrifluoroethane	ug/L	250	226	90		2		67 - 132	0 - 30
Vinyl chloride	ug/L	250	226	90		1		67 - 133	0 - 30
Xylene (total)	ug/L	750	1410	104		3		77 - 119	0 - 30
cis-1,2-Dichloroethene	ug/L	250	230	92		2		76 - 123	0 - 30
cis-1,3-Dichloropropene	ug/L	250	233	93		0		74 - 121	0 - 30
tert-Butyl methyl ether (MTBE)	ug/L	250	767	123		.9		61 - 135	0 - 30
trans-1,2-Dichloroethene	ug/L	250	226	90		.4		72 - 130	0 - 30
trans-1,3-Dichloropropene	ug/L	250	238	95		.8		77 - 114	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 48 outside limits

Spike Recovery: 6 out of 96 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Analytical Batch: 287760

SAMPLE NO. : 224415

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1,1-Trichloroethane	ug/L	25	0	26.2	105		75 - 124
1,1,2,2-Tetrachloroethane	ug/L	25	0	29.4	118		58 - 130
1,1,2-Trichloroethane	ug/L	25	0	27.9	112		78 - 112
1,1-Dichloroethane	ug/L	25	0	24.2	97		74 - 125
1,1-Dichloroethene	ug/L	25	0	25.6	102		72 - 138
1,2,4-Trichlorobenzene	ug/L	25	0	27.2	109		51 - 141
1,2-Dibromo-3-chloropropane	ug/L	25	0	25.5	102		56 - 128
1,2-Dibromoethane	ug/L	25	0	29.2	117	*	77 - 113
1,2-Dichlorobenzene	ug/L	25	0	24.8	99		78 - 113
1,2-Dichloroethane	ug/L	25	0	24.5	98		74 - 128
1,2-Dichloropropane	ug/L	25	0	23.5	94		77 - 121
1,3-Dichlorobenzene	ug/L	25	0	28.5	114		74 - 119
1,4-Dichlorobenzene	ug/L	25	0	28.6	114		79 - 114
2-Butanone	ug/L	25	0	25.1	100		62 - 129
2-Hexanone	ug/L	25	0	27.8	111		53 - 135
4-Methyl-2-pentanone	ug/L	25	0	23.6	94		58 - 131
Acetone	ug/L	25	0	27.9	112		38 - 145
Benzene	ug/L	25	0	26.2	105		77 - 119
Bromodichloromethane	ug/L	25	0	24.4	98		75 - 113
Bromoform	ug/L	25	0	27.9	112		64 - 127
Bromomethane	ug/L	25	0	27.8	111		56 - 156
Carbon disulfide	ug/L	25	0	25.9	104		67 - 130
Carbon tetrachloride	ug/L	25	0	26.2	105		71 - 129
Chlorobenzene	ug/L	25	0	28.6	114		78 - 116
Chloroethane	ug/L	25	0	26.8	107		56 - 145
Chloroform	ug/L	25	0	23.7	95		67 - 122
Chloromethane	ug/L	25	0	24.7	99		60 - 139
Cyclohexane	ug/L	25	0	24.5	98		69 - 126
Dibromochloromethane	ug/L	25	0	28.8	115	*	76 - 113
Dichlorodifluoromethane	ug/L	25	0	26.1	104		60 - 120
Ethylbenzene	ug/L	25	0	28.3	113		76 - 118
Isopropylbenzene (Cumene)	ug/L	25	0	28.3	113		74 - 119
Methyl Acetate	ug/L	25	0	22.2	89		14 - 226
Methylcyclohexane	ug/L	25	0	24.3	97		71 - 127
Methylene chloride	ug/L	25	0	23.8	95		59 - 143

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: 2 out of 48 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Analytical Batch: 287760

Styrene	ug/L	25	0	28.7	115		78 - 118
Tetrachloroethene	ug/L	25	0	28.1	112		74 - 122
Toluene	ug/L	25	0	24.7	99		78 - 114
Trichloroethene	ug/L	25	0	25.8	103		67 - 126
Trichlorofluoromethane	ug/L	25	0	27.6	110		53 - 144
Trichlorotrifluoroethane	ug/L	25	0	26.7	107		67 - 132
Vinyl chloride	ug/L	25	0	25.6	102		67 - 133
Xylene (total)	ug/L	75	0	86.4	115		77 - 119
cis-1,2-Dichloroethene	ug/L	25	0	25.7	103		76 - 123
cis-1,3-Dichloropropene	ug/L	25	0	24.5	98		74 - 121
tert-Butyl methyl ether (MTBE)	ug/L	25	0	25.1	100		61 - 135
trans-1,2-Dichloroethene	ug/L	25	0	25.3	101		72 - 130
trans-1,3-Dichloropropene	ug/L	25	0	25.4	102		77 - 114

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: 2 out of 48 outside limits

3A

WATER VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Analytical Batch: 287866

SAMPLE NO. : 224854

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
1,1-Dichloroethene	mg/L	.025	0	.026	103		72 - 138
1,2-Dichloroethane	mg/L	.025	0	.027	108		74 - 128
2-Butanone	mg/L	.025	0	.028	112		62 - 129
Benzene	mg/L	.025	0	.026	102		77 - 119
Carbon tetrachloride	mg/L	.025	0	.021	82		71 - 129
Chlorobenzene	mg/L	.025	0	.024	95		78 - 116
Chloroform	mg/L	.025	0	.024	97		67 - 122
Tetrachloroethene	mg/L	.025	0	.023	94		74 - 122
Trichloroethene	mg/L	.025	0	.024	97		67 - 126
Vinyl chloride	mg/L	.025	0	.026	104		67 - 133

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 10 outside limits

3B

SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL

Sample ID: MIXED BED RESIN-COGEN

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Contract:

Method: 1311/8260B

Analytical Batch: 287866

SAMPLE NO : 224879

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
1,1-Dichloroethene	mg/L	1	0	.98	98		72 - 138
1,2-Dichloroethane	mg/L	1	0	1.08	108		74 - 128
2-Butanone	mg/L	1	0	.899	90		62 - 129
Benzene	mg/L	1	0	1.05	105		77 - 119
Carbon tetrachloride	mg/L	1	0	.987	99		71 - 129
Chlorobenzene	mg/L	1	0	.922	92		78 - 116
Chloroform	mg/L	1	0	1.01	101		67 - 122
Tetrachloroethene	mg/L	1	0	.897	90		74 - 122
Trichloroethene	mg/L	1	0	.956	96		67 - 126
Vinyl chloride	mg/L	1	0	1.04	104		67 - 133

SAMPLE NO : 224880

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
1,1-Dichloroethene	mg/L	1	1.06	106		8		72 - 138	0 - 14
1,2-Dichloroethane	mg/L	1	1.11	111		3		74 - 128	0 - 30
2-Butanone	mg/L	1	.878	88		2		62 - 129	0 - 30
Benzene	mg/L	1	1.09	109		4		77 - 119	0 - 11
Carbon tetrachloride	mg/L	1	1.04	104		5		71 - 129	0 - 30
Chlorobenzene	mg/L	1	1.02	102		10		78 - 116	0 - 13
Chloroform	mg/L	1	1.05	105		4		67 - 122	0 - 30
Tetrachloroethene	mg/L	1	1.02	102		13		74 - 122	0 - 30
Trichloroethene	mg/L	1	.989	99		3		67 - 126	0 - 14
Vinyl chloride	mg/L	1	1.1	110		6		67 - 133	0 - 30

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

* Values outside of QC limits

RPD : 0 out of 10 outside limits

Spike Recovery: 0 out of 20 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB224414

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050220/S8710

Lab Sample ID: 224414 Date Extracted:

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

Date Analyzed: 02/20/05 Time: 1308

Instrument ID: MSV3 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 287760

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS224415	224415	2050220/S8708	02/20/05	1138
2.	05283WC2W050217	20502180605	2050220/S8712	02/20/05	1423
3.	05283WC2W050217MS	224416	2050220/S8713M	02/20/05	1511
4.	05283WC2W050217MSD	224417	2050220/S8714M	02/20/05	1533
5.	05283TB1W050217	20502180606	2050220/S8720	02/20/05	1809

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB224853

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050222/U0401

Lab Sample ID: 224853 Date Extracted:

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

Date Analyzed: 02/22/05 Time: 1622

Instrument ID: MSV4 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch: Analytical Batch: 287866

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS224854	224854	2050222/U0399	02/22/05	1537
2.	05283WC1W050217 (TCLP)	20502180602	2050222/U0403	02/22/05	1707
3.	05283WC4W050217 (TCLP)	20502180604	2050222/U0404	02/22/05	1730

FORM IV VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050129/S7888

BFB Injection Date: 01/29/05

Instrument ID: MSV3

BFB Injection Time: 0757

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

Analytical Batch: 286896

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	22.93	(	)	
75	30.0 - 60.0% of mass 95	56	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.75	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	79.27	(	)	
175	5.0 - 9.0% of mass 174	6.18	(7.8	)	1
176	95.0 - 101.0% of mass 174	77.91	(98.29	)	1
177	5.0 - 9.0% of mass 176	5.18	(6.65	)	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.	V3STD000.2	1207	2050129/S7889	01/29/05	0830
2.	V3STD000.4	1208	2050129/S7890	01/29/05	0852
3.	V3STD001	1209	2050129/S7891	01/29/05	0914
4.	V3STD002	1206	2050129/S7892	01/29/05	0935
5.	V3STD005	1201	2050129/S7893	01/29/05	0957
6.	V3STD020	1202	2050129/S7894	01/29/05	1019
7.	V3STD050	1203	2050129/S7895	01/29/05	1040
8.	V3STD100	1204	2050129/S7896	01/29/05	1102
9.	V3STD200	1205	2050129/S7897	01/29/05	1124

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050220/S8705

BFB Injection Date: 02/20/05

Instrument ID: MSV3

BFB Injection Time: 0945

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

Analytical Batch: 287760

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	22.2	(	)	
75	30.0 - 60.0% of mass 95	56.61	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.58	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	83.91	(	)	
175	5.0 - 9.0% of mass 174	6.2	(7.39	)	1
176	95.0 - 101.0% of mass 174	82.6	(98.44	)	1
177	5.0 - 9.0% of mass 176	4.83	(5.85	)	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.	V3STD050	1400	2050220/S8707	02/20/05	1105
2.	LCS224415	224415	2050220/S8708	02/20/05	1138
3.	MB224414	224414	2050220/S8710	02/20/05	1308
4.	05283WC2W050217	20502180605	2050220/S8712	02/20/05	1423
5.	05283WC2W050217MS	224416	2050220/S8713M	02/20/05	1511
6.	05283WC2W050217MSD	224417	2050220/S8714M	02/20/05	1533
7.	05283TB1W050217	20502180606	2050220/S8720	02/20/05	1809

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050220/U0352

BFB Injection Date: 02/20/05

Instrument ID: MSV4

BFB Injection Time: 1352

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

Analytical Batch: 287857

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	15.53	(	)	
75	30.0 - 60.0% of mass 95	46.65	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.6	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	78.59	(	)	
175	5.0 - 9.0% of mass 174	5.81	(7.4	)	1
176	95.0 - 101.0% of mass 174	76.02	(96.73	)	1
177	5.0 - 9.0% of mass 176	4.94	(6.5	)	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.	V4STD002	1206	2050220/U0353	02/20/05	1415
2.	V4STD005	1201	2050220/U0354	02/20/05	1437
3.	V4STD020	1202	2050220/U0355	02/20/05	1500
4.	V4STD050	1203	2050220/U0356	02/20/05	1523
5.	V4STD100	1204	2050220/U0357	02/20/05	1545
6.	V4STD200	1205	2050220/U0358	02/20/05	1607

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050222/U0396

BFB Injection Date: 02/22/05

Instrument ID: MSV4

BFB Injection Time: 1230

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

Analytical Batch: 287866

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	17.67	(	)	
75	30.0 - 60.0% of mass 95	49.15	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.45	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	71.86	(	)	
175	5.0 - 9.0% of mass 174	5.36	(7.46	)	1
176	95.0 - 101.0% of mass 174	71.55	(99.57	)	1
177	5.0 - 9.0% of mass 176	4.53	(6.34	)	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.	V4STD050	1400	2050222/U0397	02/22/05	1430
2.	LCS224854	224854	2050222/U0399	02/22/05	1537
3.	MB224853	224853	2050222/U0401	02/22/05	1622
4.	05283WC1W050217 (TCLP)	20502180602	2050222/U0403	02/22/05	1707
5.	05283WC4W050217 (TCLP)	20502180604	2050222/U0404	02/22/05	1730

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	0.130	0.141	0.121	0.113	0.107					0.123			11.20	A
Acrolein	0.031	0.032	0.029	0.028	0.030					0.030			4.673	A
Acrylonitrile	0.108	0.108	0.10	0.092	0.088					0.099			9.060	A
Benzal chloride	77815	398345	1094360	2352858	5392791					0.145	0.262		0.996	L
Bromochloromethane	0.142	0.150	0.144	0.137	0.137	0.129			0.133	0.139			5.024	A
Bromodichloromethane	0.387	0.397	0.376	0.346	0.350	0.369		0.369	0.364	0.370			4.580	A
Bromoform	0.451	0.477	0.466	0.448	0.467	0.425				0.456			4.035	A
Bromomethane	0.177	0.207	0.184	0.170	0.162	0.199				0.183			9.538	A
Carbon disulfide	0.808	0.875	0.801	0.750	0.741	0.714				0.781			7.475	A
Carbon tetrachloride	0.354	0.385	0.364	0.334	0.333	0.312			0.330	0.345			7.021	A
Chloroethane	31650	154700	306600	547000	885600	12150		2982	6527	8.764	-0.004	24.1	0.999	Q
m,p-Xylene	0.921	1.024	0.963	0.913	0.912	0.771				0.917			9.124	A
Chloroform	0.538	0.537	0.488	0.452	0.447	0.589				0.508			11.00	A
Chloromethane	0.271	0.280	0.257	0.240	0.241	0.278			0.236	0.258			7.261	A
Dibromochloromethane	0.666	0.695	0.671	0.636	0.659	0.612		0.553		0.634			7.667	A
Dibromomethane	0.210	0.210	0.194	0.182	0.184	0.177			0.177	0.190			7.499	A
Dichlorodifluoromethane	0.315	0.334	0.308	0.285	0.290	0.285			0.303	0.303			5.980	A
1,1-Dichloroethane	0.484	0.497	0.468	0.438	0.442	0.462			0.426	0.460			5.581	A
1,2-Dichloroethane	0.450	0.458	0.414	0.383	0.378	0.400			0.412	0.414			7.425	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

000041

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
cis-1,2-Dichloroethene	0.417	0.462	0.425	0.396	0.386	0.385			0.375	0.407			7.433	A
trans-1,2-Dichloroethene	0.359	0.385	0.346	0.319	0.308	0.332				0.342			8.227	A
Methylene chloride	0.417	0.368	0.332	0.306	0.306					0.346			13.62	A
1,2-Dichloropropane	0.288	0.297	0.276	0.261	0.258	0.260			0.250	0.270			6.495	A
cis-1,3-Dichloropropene	0.400	0.449	0.441	0.419	0.420	0.361				0.415			7.661	A
trans-1,3-Dichloropropene	0.397	0.437	0.434	0.414	0.418	0.350				0.408			7.814	A
Ethylbenzene	0.750	0.826	0.776	0.746	0.767	0.693				0.759			5.711	A
Ethyl methacrylate	0.222	0.249	0.251	0.250	0.244					0.243			4.969	A
2-Hexanone	0.404	0.433	0.431	0.412	0.411					0.418			3.136	A
Isobutyl alcohol	0.010	0.008	0.009	0.008	0.008					0.009			12.99	A
Isopropylbenzene (Cumene)	310844	1615951	3894567	7506280	13998017	103902		18267	47207	2.310	-0.010		0.999	L
2-Butanone	0.188	0.162	0.149	0.137	0.130					0.153			14.93	A
Methyl iodide	0.384	0.431	0.400	0.388	0.397	0.349				0.392			6.776	A
4-Methyl-2-pentanone	0.253	0.276	0.272	0.255	0.256					0.262			4.103	A
n-Propylbenzene	3.274	3.708	3.384	3.234	3.109					3.342			6.798	A
Styrene	1.564	1.771	1.701	1.616	1.638	1.314				1.601			9.848	A
Tetrachloroethene	0.452	0.505	0.466	0.448	0.443	0.419		0.442	0.452	0.453			5.492	A
1,1,1,2-Tetrachloroethane	0.535	0.572	0.540	0.513	0.529	0.510			0.497	0.528			4.668	A
1,1,2,2-Tetrachloroethane	0.782	0.822	0.754	0.727	0.734	0.792	0.527	0.730	0.754	0.736			11.46	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.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,2,4-Trichlorobenzene	0.556	0.609	0.654	0.634	0.669					0.624			7.078	A
1,1,1-Trichloroethane	0.427	0.457	0.430	0.401	0.396	0.388			0.377	0.411			6.848	A
1,1,2-Trichloroethane	0.518	0.546	0.518	0.490	0.510	0.489			0.487	0.508			4.230	A
Trichlorofluoromethane	0.432	0.448	0.409	0.384	0.377	0.379			0.371	0.400			7.582	A
1,2,3-Trichloropropane	0.953	1.009	0.930	0.898	0.898	0.912				0.933			4.562	A
1,2,4-Trimethylbenzene	1.970	2.237	2.177	2.072	2.061					2.103			4.969	A
1,3,5-Trimethylbenzene	2.170	2.413	2.278	2.179	2.157					2.239			4.833	A
Vinyl chloride	0.268	0.296	0.276	0.259	0.260	0.250		0.294	0.256	0.270			6.470	A
o-Xylene	0.892	0.996	0.953	0.899	0.910	0.728				0.896			10.20	A
Chloroprene	0.404	0.404	0.418	0.410	0.386					0.404			2.911	A
1,2-Dibromo-3-chloropropane	19177	95625	239475	466985	912464	7187	222	434	3295	0.167	0.008		0.999	L
1,2-Dibromoethane	0.563	0.596	0.578	0.557	0.578	0.495	0.434	0.508	0.510	0.535			9.780	A
Methyl methacrylate	0.333	0.354	0.344	0.340	0.326					0.339			3.163	A
Propiontrile	0.035	0.033	0.032	0.032	0.031					0.033			4.522	A
Vinyl acetate	0.526	0.536	0.503	0.471	0.461	0.538				0.506			6.583	A
tert-Butyl methyl ether (MTBE)	0.630	0.654	0.605	0.566	0.552	0.590				0.599			6.430	A
1,2-Dichloroethene	0.388	0.423	0.386	0.358	0.347	0.359				0.377			7.462	A
4-Isopropyltoluene	2.113	2.508	2.340	2.243	2.226					2.286			6.480	A
Xylene (total)	0.911	1.015	0.960	0.908	0.911	0.756				0.910			9.456	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.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,4 Dioxane	0.002	0.002	0.002	0.002	0.002					0.002			2.365	A
1,3-Butadiene	0.359	0.373	0.374	0.367	0.343					0.363			3.490	A
Methylcyclohexane	0.395	0.453	0.427	0.398	0.389					0.413			6.529	A
n-Hexane	0.370	0.378	0.345	0.326	0.325	0.332				0.346			6.663	A
trans-1,4-Dichloro-2-butene	0.214	0.232	0.215	0.208	0.208					0.215			4.555	A
Cyclohexane	0.374	0.442	0.404	0.372	0.372					0.393			7.865	A
1,5-Cyclooctadiene	0.375	0.392	0.389	0.380	0.370					0.381			2.427	A
2,2-Dichloropropane	0.345	0.387	0.362	0.343	0.341	0.321			0.308	0.344			7.525	A
Diethyl ether	0.196	0.192	0.183	0.173	0.157					0.180			8.762	A
Cyclohexanone	49520	91947	344491	935263	1904817					0.052	0.290		0.995	L
Methyl Acetate	0.171	0.174	0.155	0.141	0.147	0.178				0.161			9.557	A
Trichlorotrifluoroethane	0.267	0.287	0.258	0.238	0.235	0.237				0.254			8.296	A
1,1-Dichloropropene	0.348	0.390	0.354	0.334	0.327	0.302			0.292	0.335			9.877	A
2-Chloroethylvinyl ether	0.113	0.131	0.143	0.149	0.147					0.137			10.97	A
1,3-Dichloropropane	0.913	0.941	0.886	0.846	0.846	0.817			0.770	0.860			6.779	A
Bromobenzene	1.428	1.516	1.379	1.325	1.326	1.282				1.376			6.187	A
2-Chlorotoluene	2.223	2.417	2.260	2.128	1.913	1.916				2.143			9.339	A
4-Chlorotoluene	2.299	2.444	2.214	2.147	2.137	2.002				2.207			6.871	A
tert-Butylbenzene	1.648	1.861	1.727	1.663	1.671					1.714			5.115	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.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
sec-Butylbenzene	2.777	3.254	3.073	2.917	2.831					2.970			6.539	A
1,3-Dichlorobenzene	1.386	1.482	1.338	1.277	1.275					1.352			6.367	A
1,4-Dichlorobenzene	1.417	1.499	1.354	1.298	1.288	1.302				1.360			6.132	A
n-Butylbenzene	1.842	2.206	2.216	2.085	2.077					2.085			7.235	A
1,2-Dichlorobenzene	1.298	1.380	1.286	1.223	1.227					1.283			4.987	A
Hexachlorobutadiene	0.540	0.611	0.554	0.529	0.541	0.507				0.547			6.440	A
Naphthalene	109189	580996	1773656	3370769	7091057					1.313	0.088		0.997	L
1,2,3-Trichlorobenzene	0.541	0.584	0.613	0.588	0.631					0.592			5.752	A
2,3-Dichloro-1-propene	0.432	0.462	0.451	0.435	0.419					0.440			3.847	A
Isopropyl Ether	0.837	0.854	0.818	0.802	0.750					0.812			4.904	A
Acetonitrile	0.005	0.005	0.005	0.004	0.003					0.004			26.19	A
Allyl chloride	0.337	0.340	0.336	0.339	0.333					0.337			0.889	A
1-Bromo-2-chloroethane	0.435	0.423	0.410	0.392	0.388	0.390				0.406			4.854	A
sec-Butanol	0.418	0.427	0.409	0.401	0.375					0.406			4.904	A
Ethyl acetate	0.224	0.194	0.186	0.181	0.158					0.189			12.79	A
n-Butyl alcohol	0.006	0.005	0.005	0.005	0.006					0.006			6.930	A
t-Butanol	0.022	0.023	0.017	0.017	0.019					0.020			14.22	A
Pentachloroethane	0.198	0.188	0.187	0.181	0.180					0.187			3.867	A
1,3-Dichloropropylene	0.398	0.443	0.437	0.417	0.419					0.423			4.222	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

000045

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV3

Calibration Date 1: 01/29/05 Time 1: 0830

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

Calibration Date 2: 02/01/05 Time 2: 0740

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 287003

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 1207 Level 8: 1208 Level 9: 1209

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
1,1-Dichloroethene	0.223	0.238	0.213	0.200	0.198	0.203				0.212			7.357	A
Benzene	0.992	1.072	0.980	0.917	0.872	0.923			0.889	0.949			7.325	A
Trichloroethene	0.272	0.293	0.276	0.261	0.263	0.234			0.239	0.263			7.860	A
Toluene	1.060	1.149	1.078	1.006	0.982	0.932				1.034			7.461	A
Chlorobenzene	1.493	1.564	1.463	1.376	1.400	1.390				1.448			5.043	A
4-Bromofluorobenzene	0.766	0.844	0.809	0.773	0.800					0.798			3.920	A
Dibromofluoromethane	0.395	0.429	0.388	0.361	0.360					0.386			7.385	A
Toluene-d8	1.147	1.246	1.176	1.102	1.050					1.144			6.495	A
1,2-Dichloroethane-d4	0.247	0.254	0.229	0.221	0.219					0.234			6.751	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.: 205021806

Instrument ID: MSV4

Calibration Date 1: 02/20/05 Time 1: 1415

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

Calibration Date 2: 02/20/05 Time 2: 1607

Heated Purge: (Y/N) N

Method: 1311/8260B

Analytical Batch: 287857

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Acetone	24167	70869	167881	332975	631173					0.056	-0.082		0.999	L
Acrolein	0.021	0.020	0.020	0.020	0.020					0.020			2.137	A
Acrylonitrile	0.056	0.060	0.059	0.058	0.058					0.058			2.587	A
Bromochloromethane	0.146	0.151	0.150	0.145	0.137					0.146			3.660	A
Bromodichloromethane	0.332	0.338	0.347	0.358	0.358					0.346			3.400	A
Bromoform	0.416	0.442	0.488	0.508	0.506					0.472			8.684	A
Bromomethane	0.100	0.095	0.093	0.094	0.095					0.096			2.966	A
Carbon disulfide	0.555	0.552	0.560	0.556	0.525					0.550			2.582	A
Carbon tetrachloride	0.367	0.368	0.384	0.386	0.370					0.375			2.441	A
Chloroethane	0.094	0.090	0.084	0.054		0.121				0.088			26.94	A
m,p-Xylene	1.183	1.195	1.303	1.310	1.255					1.249			4.724	A
Chloroform	0.445	0.446	0.449	0.444	0.434					0.444			1.246	A
Chloromethane	0.202	0.218	0.234	0.241	0.244					0.228			7.796	A
Dibromochloromethane	0.740	0.740	0.806	0.818	0.801					0.781			4.879	A
Dibromomethane	0.166	0.167	0.167	0.171	0.173					0.169			1.799	A
Dichlorodifluoromethane	0.286	0.269	0.279	0.276	0.272					0.276			2.330	A
1,1-Dichloroethane	0.293	0.283	0.290	0.294	0.281	0.338				0.296			7.133	A
1,2-Dichloroethane	0.308	0.320	0.323	0.323	0.318					0.319			1.896	A
cis-1,2-Dichloroethene	0.220	0.264	0.253	0.207	0.260					0.241			10.59	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.: 205021806

Instrument ID: MSV4

Calibration Date 1: 02/20/05 Time 1: 1415

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

Calibration Date 2: 02/20/05 Time 2: 1607

Heated Purge: (Y/N) N

Method: 1311/8260B

Analytical Batch: 287857

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: 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	0.191	0.191	0.195	0.200	0.190					0.194			2.106	A
Methylene chloride	0.171	0.165	0.167	0.171	0.160					0.167			2.755	A
1,2-Dichloropropane	0.247	0.247	0.253	0.263	0.257					0.253			2.775	A
cis-1,3-Dichloropropene	0.430	0.426	0.438	0.441	0.446					0.436			1.850	A
trans-1,3-Dichloropropene	1.031	1.033	1.081	1.089	1.043					1.055			2.628	A
Ethylbenzene	0.948	0.942	1.027	1.038	1.010					0.993			4.518	A
2-Hexanone	0.462	0.472	0.486	0.478	0.459					0.472			2.378	A
Isopropylbenzene (Cumene)	2.994	2.978	3.187	3.228	2.975					3.072			4.046	A
2-Butanone	0.140	0.132	0.122	0.122	0.116					0.126			7.548	A
Methyl iodide	0.226	0.272	0.326	0.333	0.292					0.290			15.01	A
4-Methyl-2-pentanone	0.234	0.247	0.229	0.234	0.224					0.234			3.737	A
n-Propylbenzene	3.749	3.696	3.813	3.727	3.255					3.648			6.139	A
Styrene	2.002	2.013	2.140	2.245	2.141					2.108			4.820	A
Tetrachloroethene	0.535	0.542	0.581	0.588	0.570					0.563			4.184	A
1,1,1,2-Tetrachloroethane	0.682	0.667	0.725	0.734	0.706					0.703			4.008	A
1,1,2,2-Tetrachloroethane	0.844	0.840	0.824	0.852	0.747					0.821			5.229	A
1,2,4-Trichlorobenzene	28380	243312	770152	1748612	3912554					0.850	0.115		0.999	L
1,1,1-Trichloroethane	0.388	0.391	0.398	0.390	0.364					0.386			3.383	A
1,1,2-Trichloroethane	0.684	0.644	0.666	0.666	0.638					0.660			2.798	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

000048

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV4

Calibration Date 1: 02/20/05 Time 1: 1415

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

Calibration Date 2: 02/20/05 Time 2: 1607

Heated Purge: (Y/N) N

Method: 1311/8260B

Analytical Batch: 287857

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorofluoromethane	0.261	0.261	0.266	0.259	0.245					0.258			3.041	A
1,2,3-Trichloropropane	0.721	0.720	0.693	0.692	0.640					0.693			4.743	A
1,2,4-Trimethylbenzene	2.738	2.695	2.732	2.734	2.515					2.683			3.554	A
1,3,5-Trimethylbenzene	2.703	2.650	2.725	2.649	2.404					2.626			4.888	A
Vinyl chloride	0.252	0.252	0.270	0.271	0.271	0.294				0.268			5.742	A
o-Xylene	1.187	1.187	1.282	1.287	1.240					1.237			3.957	A
1,2-Dibromo-3-chloropropane	0.155	0.172	0.166	0.170	0.167					0.166			3.859	A
1,2-Dibromoethane	0.628	0.629	0.675	0.678	0.651					0.652			3.660	A
Vinyl acetate	0.218	0.223	0.256	0.248	0.239					0.237			6.861	A
tert-Butyl methyl ether (MTBE)	0.506	0.489	0.476	0.485	0.466					0.484			3.123	A
1,2-Dichloroethene	0.206	0.228	0.224	0.204	0.225					0.217			5.315	A
4-Isopropyltoluene	2.887	2.878	2.970	2.958	2.642					2.867			4.612	A
Xylene (total)	1.184	1.193	1.296	1.302	1.250					1.245			4.467	A
Methylcyclohexane	0.366	0.334	0.334	0.356	0.357					0.350			4.122	A
n-Hexane	0.238	0.243	0.256	0.256	0.249					0.248			3.243	A
trans-1,4-Dichloro-2-butene	0.206	0.197	0.195	0.196	0.191					0.197			2.835	A
Cyclohexane	0.303	0.305	0.317	0.305	0.305					0.307			1.814	A
2,2-Dichloropropane	0.297	0.333	0.328	0.287	0.309					0.311			6.321	A
Methyl Acetate	0.064	0.063	0.063	0.068	0.069					0.066			4.488	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.: 205021806

Instrument ID: MSV4

Calibration Date 1: 02/20/05 Time 1: 1415

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

Calibration Date 2: 02/20/05 Time 2: 1607

Heated Purge: (Y/N) N

Method: 1311/8260B

Analytical Batch: 287857

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichlorotrifluoroethane	0.195	0.193	0.191	0.186	0.179					0.189			3.237	A
1,1-Dichloropropene	0.317	0.321	0.327	0.329	0.319					0.323			1.600	A
2-Chloroethylvinyl ether	9787	42458	130007	285745	643053					0.059	0.140		0.997	L
1,3-Dichloropropane	1.081	1.085	1.154	1.148	1.107					1.115			3.078	A
Bromobenzene	1.347	1.326	1.350	1.178	1.291					1.298			5.482	A
2-Chlorotoluene	2.251	2.198	2.242	2.216	2.068					2.195			3.370	A
4-Chlorotoluene	2.248	2.225	2.297	2.299	2.109					2.236			3.482	A
tert-Butylbenzene	1.565	1.483	1.505	1.494	1.367					1.483			4.876	A
sec-Butylbenzene	3.340	3.330	3.478	3.389	2.998					3.307			5.520	A
1,3-Dichlorobenzene	1.435	1.446	1.528	1.536	1.450					1.479			3.298	A
1,4-Dichlorobenzene	1.540	1.527	1.550	1.557	1.477					1.530			2.095	A
n-Butylbenzene	1.995	2.255	2.444	2.457	2.240					2.278			8.267	A
1,2-Dichlorobenzene	1.428	1.459	1.503	1.441	1.414					1.449			2.362	A
Hexachlorobutadiene	0.308	0.317	0.342	0.348	0.365					0.336			6.950	A
Naphthalene	104372	631312	1989759	4515623	9674592					2.098	0.082		0.999	L
1,2,3-Trichlorobenzene	24672	220721	713933	1596751	3535413					0.768	0.107		0.999	L
1-Bromo-2-chloroethane	0.045	0.047	0.049	0.051	0.052					0.049			5.710	A
1,1-Dichloroethene	0.192	0.186	0.184	0.182	0.177					0.184			3.107	A
Benzene	1.003	0.991	1.022	1.044	1.004					1.013			2.048	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

000050

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV4

Calibration Date 1: 02/20/05 Time 1: 1415

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

Calibration Date 2: 02/20/05 Time 2: 1607

Heated Purge: (Y/N) N

Method: 1311/8260B

Analytical Batch: 287857

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	$\overline{RF}$ / b / A	m / B	C	FIT	TYPE
Trichloroethene	0.306	0.308	0.318	0.326	0.325					0.317			2.824	A
Toluene	2.740	2.673	2.892	2.839	2.643					2.757			3.862	A
Chlorobenzene	1.957	1.884	2.008	2.024	1.934					1.962			2.875	A
4-Bromofluorobenzene	0.770	0.682	0.739	0.742	0.739					0.734			4.333	A
Dibromofluoromethane	0.281	0.280	0.284	0.284	0.269					0.279			2.174	A
Toluene-d8	2.479	2.329	2.505	2.480	2.320					2.423			3.720	A
1,2-Dichloroethane-d4	0.144	0.150	0.152	0.150	0.147					0.149			2.145	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

000051

Data file : /var/chem/msv3.i/2050129.s.b/s7899.d
Report Date: 03/01/2005 17:04

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: 8260.sub
Method File: /var/chem/msv3.i/2050129.s.b/8260Bw3.m
Misc Info: MSV~5748~*1*RFS

Client SDG: 2050129.s
Fraction: VOA
Client Smp ID: 8260ICV
Operator: RFS
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluoromethane	50.0	46.5	93.00	75-125
2 Chloromethane ++	50.0	41.4	82.89	75-125
3 Vinyl Chloride +	50.0	48.3	96.52	75-125
5 Bromomethane	50.0	53.1	106.15	75-125
6 Chloroethane	50.0	47.7	95.48	75-125
7 Trichlorofluoromethane	50.0	48.6	97.15	75-125
9 Acrolein	250	246	98.47	75-125
11 1,1-Dichloroethene +	50.0	46.6	93.15	75-125
12 Acetone	50.0	48.1	96.24	75-125
13 Methyl Iodide	50.0	52.4	104.88	75-125
14 Carbon Disulfide	50.0	47.8	95.65	75-125
17 Methyl Acetate	50.0	44.2	88.40	75-125
18 Methylene Chloride	50.0	45.7	91.45	75-125
20 Acrylonitrile	250	240	96.15	75-125
21 MTBE	50.0	49.1	98.19	75-125
22 trans-1,2-Dichloroethene	50.0	47.9	95.77	75-125
24 Hexane	50.0	46.1	92.17	75-125
25 Vinyl Acetate	50.0	45.1	90.27	75-125
26 1,1-Dichloroethane ++	50.0	49.1	98.19	75-125
32 2-Butanone	50.0	46.0	91.92	75-125
34 cis-1,2-Dichloroethene	50.0	48.9	97.71	75-125
35 2,2-Dichloropropane	50.0	48.4	96.72	75-125
37 Bromochloromethane	50.0	48.9	97.71	75-125
38 Chloroform +	50.0	46.2	92.49	75-125
40 1,1,1-Trichloroethane	50.0	49.0	98.06	75-125
43 1,1-Dichloropropene	50.0	49.8	99.63	75-125
44 Carbon Tetrachloride	50.0	48.8	97.55	75-125
46 1,2-Dichloroethane	50.0	48.5	97.05	75-125
47 Benzene	50.0	49.3	98.59	75-125
49 Trichloroethene	50.0	50.0	99.92	75-125

Data file : /var/chem/msv3.i/2050129.s.b/s7899.d
Report Date: 03/01/2005 17:04

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
52 1,2-Dichloropropane +	50.0	49.2	98.32	75-125
55 Dibromomethane	50.0	49.6	99.16	75-125
56 Bromodichloromethane	50.0	47.8	95.54	75-125
57 2-Chloroethyl vinyl ether	25.0	16.6	66.37*	75-125
59 cis-1,3-Dichloropropene	50.0	50.1	100.17	75-125
60 4-methyl-2-pentanone	50.0	48.9	97.73	75-125
62 Toluene +	50.0	50.2	100.46	75-125
63 trans-1,3-Dichloropropene	50.0	51.0	102.01	75-125
65 1,1,2-Trichloroethane	50.0	48.6	97.17	75-125
66 1,3-Dichloropropane	50.0	49.7	99.30	75-125
67 Tetrachloroethene	50.0	47.9	95.77	75-125
68 2-Hexanone	50.0	49.1	98.10	75-125
69 Dibromochloromethane	50.0	49.7	99.41	75-125
70 1,2-Dibromoethane(EDB)	50.0	50.9	101.84	75-125
72 Chlorobenzene ++	50.0	48.2	96.32	75-125
73 1,1,1,2-Tetrachloroethane	50.0	48.1	96.13	75-125
74 Ethylbenzene +	50.0	49.0	98.03	75-125
75 p,m-Xylene	100	99.6	99.55	75-125
76 o-Xylene	50.0	49.5	98.91	75-125
77 Styrene	50.0	50.3	100.50	75-125
M 78 TOTAL XYLENE	150	149	99.34	75-125
79 Bromoform ++	50.0	47.7	95.38	75-125
80 Isopropylbenzene	50.0	50.1	100.11	75-125
83 1,1,2,2-Tetrachloroethane++	50.0	47.7	95.44	75-125
84 trans-1,4-Dichloro-2-Butene	50.0	48.0	96.04	75-125
85 1,2,3-Trichloropropane	50.0	49.3	98.65	75-125
86 Bromobenzene	50.0	49.1	98.20	75-125
87 n-Propylbenzene	50.0	48.8	97.68	75-125
88 2-Chlorotoluene	50.0	50.6	101.14	75-125
89 1,3,5-Trimethylbenzene	50.0	48.3	96.61	75-125
90 4-Chlorotoluene	50.0	48.3	96.52	75-125
91 tert-butylbenzene	50.0	48.2	96.30	75-125
93 1,2,4-Trimethylbenzene	50.0	48.6	97.14	75-125
94 sec-Butylbenzene	50.0	48.7	97.41	75-125
95 p-Isopropyltoluene	50.0	48.5	97.02	75-125
96 1,3-Dichlorobenzene	50.0	47.6	95.21	75-125
98 1,4-Dichlorobenzene	50.0	47.4	94.79	75-125
99 n-Butylbenzene	50.0	48.7	97.44	75-125
100 1,2-Dichlorobenzene	50.0	47.4	94.81	75-125
101 1,2-Dibromo-3-Chloropropane	50.0	49.3	98.53	75-125
103 1,2,4-Trichlorobenzene	50.0	48.1	96.17	75-125
104 Hexachlorobutadiene	50.0	47.9	95.84	75-125
105 Naphthalene	50.0	48.0	96.01	75-125
106 1,2,3-Trichlorobenzene	50.0	47.4	94.81	75-125

Data file : /var/chem/msv3.i/2050129.s.b/s7899.d
Report Date: 03/01/2005 17:04

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 39 Dibromofluoromethane	50.0	48.1	96.15	0-130
$ 45 1,2-Dichloroethane-d4	50.0	47.7	95.34	0-128
$ 61 Toluene-d8	50.0	49.3	98.60	0-128
$ 82 Bromofluorobenzene	50.0	47.9	95.76	0-115

GCAL, Inc.

Data file : /var/chem/msv3.i/2050129.s.b/s7899.d
Lab Smp Id: 1600 Client Smp ID: 8260ICV
Inj Date : 29-JAN-2005 12:08
Operator : RFS Inst ID: msv3.i
Smp Info : 1600*8260ICV
Misc Info : MSV~5748~*1*RFS
Comment :
Method : /var/chem/msv3.i/2050129.s.b/8260Bw3.m
Meth Date : 01-Mar-2005 17:03 rjo Quant Type: ISTD
Cal Date : 29-JAN-2005 09:35 Cal File: s7892.d
Als bottle: 12 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.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)

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	1.610	1.613	(0.344)	935951	46.4979	46.5	9103
2 Chloromethane ++	50	1.793	1.796	(0.383)	709458	41.4459	41.4	9181
3 Vinyl Chloride +	62	1.868	1.876	(0.399)	864922	48.2587	48.3	9432
5 Bromomethane	94	2.143	2.140	(0.458)	645738	53.0764	53.1	8406
6 Chloroethane	64	2.217	2.214	(0.474)	292780	47.7410	47.7	9406
7 Trichlorofluoromethane	101	2.400	2.398	(0.513)	1291071	48.5769	48.6	9055(H)
9 Acrolein	56	2.710	2.713	(0.579)	488342	246.181	246	9608(A)
10 1,1,2Trichlotrifluoroethane	101	2.767	2.770	(0.591)	784205	46.5099	46.5	8977
11 1,1-Dichloroethene +	96	2.773	2.776	(0.592)	657391	46.5754	46.6	8645
12 Acetone	43	2.819	2.833	(0.602)	391920	48.1198	48.1	
13 Methyl Iodide	142	2.893	2.896	(0.618)	1364530	52.4398	52.4	9627
14 Carbon Disulfide	76	2.950	2.942	(0.630)	2483335	47.8226	47.8	9488
17 Methyl Acetate	43	3.019	3.028	(0.645)	472771	44.2021	44.2	9248
18 Methylene Chloride	49	3.094	3.097	(0.661)	1050439	45.7231	45.7	9261
20 Acrylonitrile	53	3.254	3.257	(0.695)	1582193	240.383	240	7626(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	21 MTBE	73	3.277	3.274	(0.700)	1955369	49.0971	49.1	9133
	22 trans-1,2-Dichloroethene	61	3.271	3.274	(0.699)	1086926	47.8836	47.9	
	24 Hexane	57	3.449	3.452	(0.737)	1059496	46.0854	46.1	9700
	25 Vinyl Acetate	43	3.558	3.561	(0.760)	1517092	45.1341	45.1	
	26 1,1-Dichloroethane ++	63	3.546	3.544	(0.758)	1499501	49.0937	49.1	8323
M	30 Total 1,2-Dichloroethene	61				2406812	96.1405	96.1	0
	32 2-Butanone	43	3.930	3.933	(0.840)	468629	45.9594	46.0	
	34 cis-1,2-Dichloroethene	61	3.919	3.922	(0.837)	1319886	48.8559	48.9	
	35 2,2-Dichloropropane	77	3.930	3.933	(0.840)	1104791	48.3590	48.4	9029
	37 Bromochloromethane	128	4.085	4.088	(0.873)	450800	48.8535	48.9	8628
	38 Chloroform +	83	4.119	4.117	(0.880)	1562536	46.2435	46.2	8881
$	39 Dibromofluoromethane	111	4.222	4.220	(0.902)	1234696	48.0748	48.1	9805
	40 1,1,1-Trichloroethane	97	4.262	4.266	(0.911)	1338846	49.0303	49.0	8961
	42 Cyclohexane	56	4.314	4.311	(0.922)	1235133	47.3262	47.3	9606
	43 1,1-Dichloropropene	75	4.366	4.369	(0.933)	1109406	49.8170	49.8	9083
	44 Carbon Tetrachloride	117	4.377	4.380	(0.935)	1117282	48.7751	48.8	9393
$	45 1,2-Dichloroethane-d4	67	4.457	4.455	(0.952)	741819	47.6709	47.7	9509
	46 1,2-Dichloroethane	62	4.503	4.506	(0.962)	1333483	48.5249	48.5	8846
	47 Benzene	78	4.515	4.512	(0.964)	3109097	49.2960	49.3	8430
*	48 FLUOROBENZENE	96	4.681	4.678	(1.000)	3322599	50.0000		9626
	49 Trichloroethene	130	4.927	4.930	(1.053)	872234	49.9604	50.0	9625
	51 Methyl Cyclohexane	83	5.076	5.073	(1.084)	1293180	47.1756	47.2	9727
	52 1,2-Dichloropropane +	63	5.082	5.079	(1.086)	881438	49.1623	49.2	9658
	55 Dibromomethane	93	5.162	5.165	(1.103)	627553	49.5812	49.6	9250
	56 Bromodichloromethane	83	5.254	5.257	(1.122)	1174171	47.7724	47.8	9598
	57 2-Chloroethyl vinyl ether	63	5.437	5.434	(1.162)	150722	16.5923	16.6	9176(R)
	58 1-Bromo-2-chloroethane	63	5.500	5.497	(1.175)	1322543	48.9713	49.0	9701
	59 cis-1,3-Dichloropropene	75	5.569	5.572	(1.190)	1380902	50.0859	50.1	
	60 4-methyl-2-pentanone	43	5.660	5.669	(1.209)	852160	48.8670	48.9	
$	61 Toluene-d8	98	5.792	5.790	(1.237)	3748178	49.2986	49.3	9728
	62 Toluene +	91	5.849	5.847	(1.250)	3452941	50.2315	50.2	9214
	63 trans-1,3-Dichloropropene	75	5.981	5.979	(1.278)	1384062	51.0051	51.0	
M	138 Total-1-3 Dichloropropene	100				2764964	98.4015	98.4	0
	65 1,1,2-Trichloroethane	97	6.136	6.139	(0.874)	778558	48.5830	48.6	9601
	66 1,3-Dichloropropane	76	6.285	6.288	(0.895)	1345979	49.6508	49.7	9194
	67 Tetrachloroethene	164	6.302	6.300	(0.897)	684526	47.8853	47.9	8380
	68 2-Hexanone	43	6.314	6.317	(0.899)	646976	49.0512	49.1	
	69 Dibromochloromethane	129	6.491	6.489	(0.924)	993951	49.7056	49.7	9745
	70 1,2-Dibromoethane(EDB)	107	6.617	6.615	(0.942)	859449	50.9201	50.9	9748
*	71 CHLOROBENZENE-d5	82	7.024	7.021	(1.000)	1576416	50.0000		9511
	72 Chlorobenzene ++	112	7.053	7.050	(1.004)	2197933	48.1578	48.2	9402
	73 1,1,1,2-Tetrachloroethane	133	7.110	7.102	(1.012)	800222	48.0659	48.1	9573
	74 Ethylbenzene +	106	7.133	7.130	(1.015)	1173662	49.0166	49.0	
	75 p,m-Xylene	106	7.242	7.239	(1.031)	2879051	99.5508	99.6	
	76 o-Xylene	106	7.649	7.640	(1.089)	1397688	49.4561	49.5	
	77 Styrene	104	7.654	7.657	(1.090)	2536371	50.2518	50.3	9659
M	78 TOTAL XYLENE	106				4276739	149.012	149	0

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
79 Bromoform ++	173	7.860	7.858	(1.119)	685460	47.6895	47.7	9648
80 Isopropylbenzene	105	8.015	8.013	(1.141)	3683193	50.0556	50.1	9707
$ 82 Bromofluorobenzene	174	8.204	8.202	(1.168)	1205094	47.8779	47.9	9525
83 1,1,2,2-Tetrachloroethane++	83	8.313	8.305	(0.869)	977923	47.7191	47.7	9335
84 trans-1,4-Dichloro-2-Butene	53	8.370	8.374	(0.875)	288040	48.0218	48.0	9727
85 1,2,3-Trichloropropane	75	8.376	8.385	(0.875)	1282485	49.3232	49.3	9707
86 Bromobenzene	77	8.388	8.391	(0.877)	1882083	49.1008	49.1	9582
87 n-Propylbenzene	91	8.468	8.477	(0.885)	4546707	48.8388	48.8	
88 2-Chlorotoluene	91	8.594	8.591	(0.898)	3018684	50.5710	50.6	
89 1,3,5-Trimethylbenzene	105	8.663	8.660	(0.905)	3013312	48.3041	48.3	9391
90 4-Chlorotoluene	91	8.714	8.712	(0.911)	2967551	48.2591	48.3	
91 tert-butylbenzene	91	9.052	9.055	(0.946)	2299067	48.1516	48.2	9523
93 1,2,4-Trimethylbenzene	105	9.115	9.113	(0.953)	2845736	48.5682	48.6	
94 sec-Butylbenzene	105	9.327	9.325	(0.975)	4030150	48.7059	48.7	
95 p-Isopropyltoluene	119	9.493	9.491	(0.992)	3089272	48.5114	48.5	9502
96 1,3-Dichlorobenzene	146	9.488	9.485	(0.992)	1792419	47.6027	47.6	
* 97 1,4-DICHLOROBENZENE-D4	152	9.568	9.565	(1.000)	1392899	50.0000		9488
98 1,4-Dichlorobenzene	146	9.591	9.588	(1.002)	1795342	47.3948	47.4	
99 n-Butylbenzene	91	10.020	10.024	(1.047)	2830213	48.7190	48.7	9743
100 1,2-Dichlorobenzene	146	10.072	10.069	(1.053)	1693670	47.4037	47.4	
101 1,2-Dibromo-3-Chloropropane	157	11.098	11.095	(1.160)	227029	49.2633	49.3	9454
103 1,2,4-Trichlorobenzene	180	12.284	12.275	(1.284)	836512	48.0847	48.1	
104 Hexachlorobutadiene	225	12.524	12.527	(1.309)	730126	47.9207	47.9	9411
105 Naphthalene	128	12.639	12.642	(1.321)	1594211	48.0033	48.0	9633
106 1,2,3-Trichlorobenzene	180	13.000	12.997	(1.359)	781253	47.4069	47.4	

QC Flag Legend

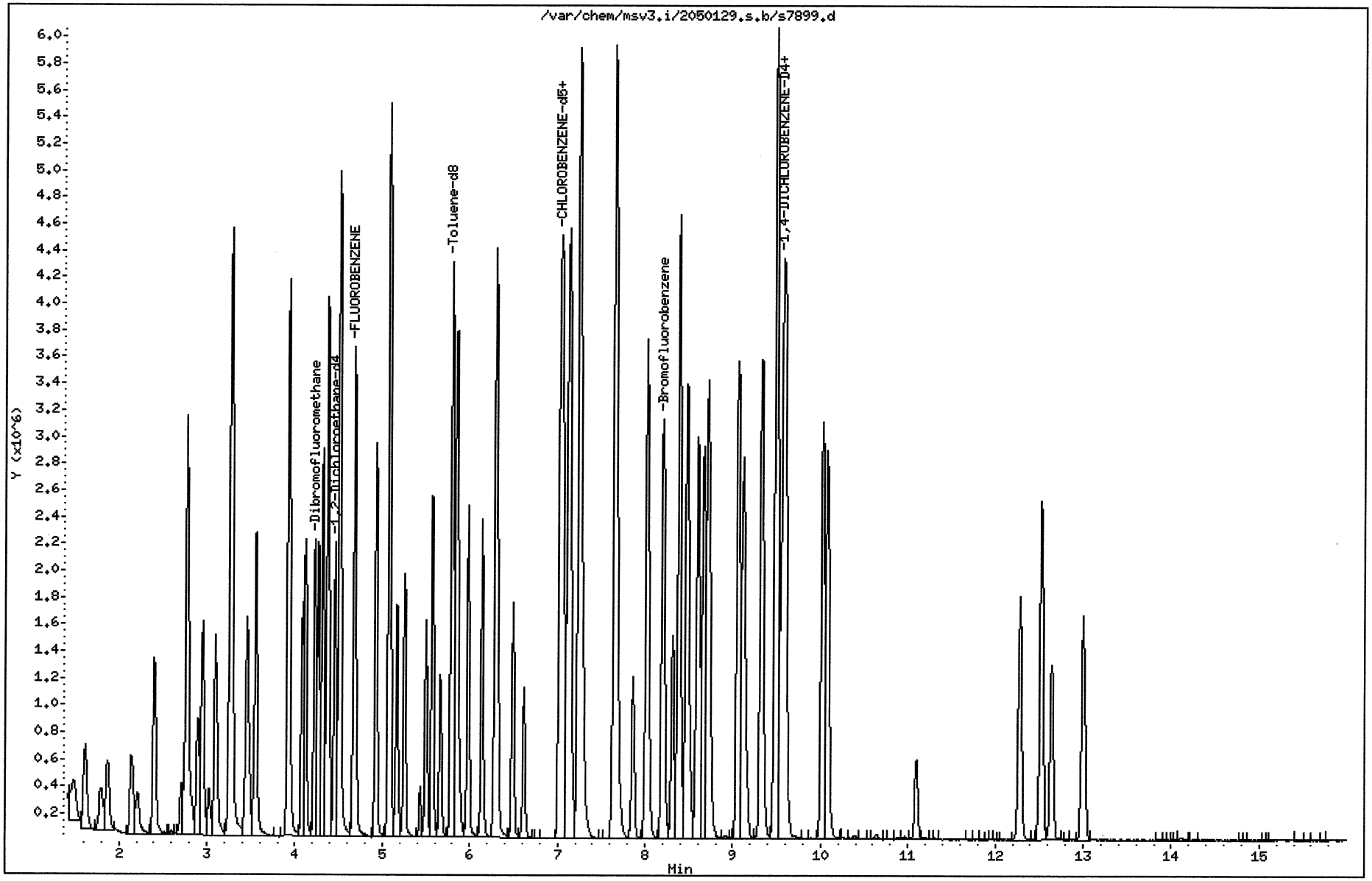
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv3.i/2050129.s.b/s7899.d
Date : 29-JAN-2005 12:08
Client ID: 8260ICV
Sample Info: 1600*8260ICV
Purge Volume: 5.0
Column phase: DB-624

Instrument: msv3.i

Operator: RFS
Column diameter: 0.53

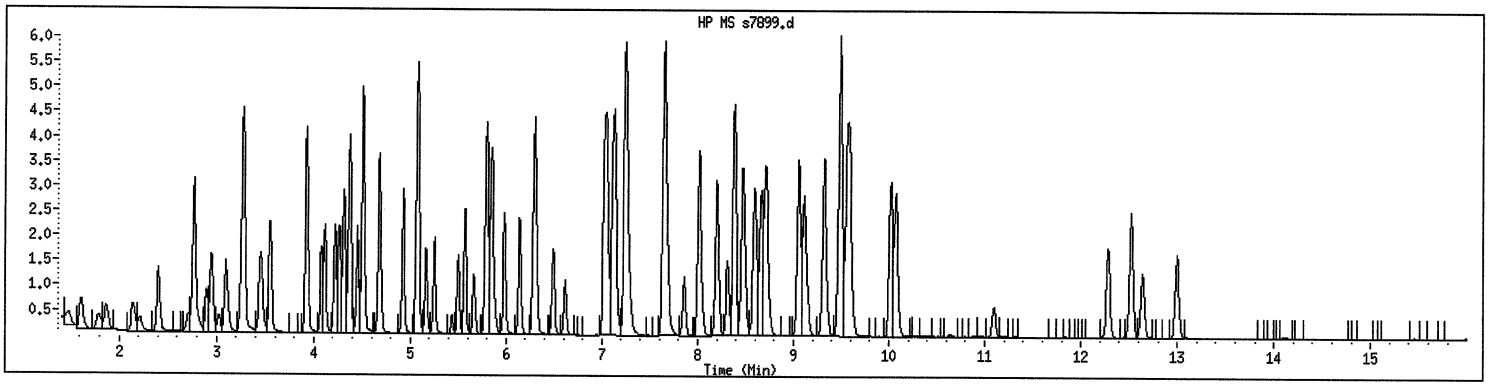
000058



Data file : /var/chem/msv3.i/2050129.s.b/s7899.d
Report Date: 03/01/2005 17:04

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 29-JAN-2005 12:08	Instrument	: msv3.i
Operator	: RFS		
Sample Info	: 1600*8260ICV		
Misc Info	: MSV~5748~*1*RFS		
Method	: /var/chem/msv3.i/2050129.s.b/8260Bw3.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: HP RTE	Compound Sublist:	8260



NO MANUAL INTEGRATIONS

Data file : /var/chem/msv4.i/2050222.s.b/u0398.d
Report Date: 02/22/2005 15:23

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/msv4.i/2050222.s.b/8260Bw4.m
Misc Info: MSV~ ~*1*MEF

Client SDG: 2050222.s
Fraction: VOA
Client Smp ID: ICV050
Operator: RFS
Sample Type: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Dichlorodifluoromethane	50.0	50.1	100.23	70-130
2 Chloromethane ++	50.0	53.0	106.00	70-130
3 Vinyl Chloride +	50.0	46.9	93.70	70-130
4 Bromomethane	50.0	54.2	108.37	70-130
5 Chloroethane	50.0	38.2	76.34	70-130
6 Trichlorofluoromethane	50.0	45.9	91.89	70-130
8 1,1-Dichloroethene +	50.0	47.5	95.08	70-130
9 Carbon Disulfide	50.0	50.8	101.50	70-130
10 1,1,2Trichlotrifluoroethane	50.0	45.6	91.14	70-130
11 Methyl Iodide	50.0	51.1	102.23	70-130
12 Acrolein	250	236	94.50	70-130
14 Methylene Chloride	50.0	51.6	103.26	70-130
15 Acetone	50.0	48.5	97.04	70-130
16 trans-1,2-Dichloroethene	50.0	50.6	101.10	70-130
19 MTBE	50.0	49.9	99.77	70-130
21 1,1-Dichloroethane ++	50.0	47.6	95.20	70-130
22 Acrylonitrile	250	277	110.87	70-130
23 Vinyl Acetate	50.0	61.4	122.76	70-130
24 cis-1,2-Dichloroethene	50.0	41.5	83.09	70-130
27 2,2-Dichloropropane	50.0	44.6	89.24	70-130
28 Bromochloromethane	50.0	50.2	100.37	70-130
30 Chloroform +	50.0	48.1	96.12	70-130
31 Carbon Tetrachloride	50.0	45.9	91.85	70-130
33 1,1,1-Trichloroethane	50.0	46.6	93.29	70-130
34 2-Butanone	50.0	49.6	99.26	70-130
35 1,1-Dichloropropene	50.0	48.0	95.93	70-130
36 Benzene	50.0	49.2	98.40	70-130
38 1,2-Dichloroethane	50.0	52.0	104.07	70-130
43 Trichloroethene	50.0	45.8	91.63	70-130
45 Dibromomethane	50.0	50.0	99.99	70-130

Data file : /var/chem/msv4.i/2050222.s.b/u0398.d
Report Date: 02/22/2005 15:23

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
47 1,2-Dichloropropane +	50.0	49.3	98.52	70-130
48 Bromodichloromethane	50.0	48.4	96.84	70-130
52 2-Chloroethyl vinyl ether	50.0	29.9	59.82*	70-130
54 cis-1,3-Dichloropropene	50.0	48.2	96.35	70-130
57 Toluene +	50.0	48.0	95.97	70-130
58 4-methyl-2-pentanone	50.0	53.9	107.78	70-130
59 Tetrachloroethene	50.0	46.1	92.20	70-130
60 trans-1,3-Dichloropropene	50.0	51.2	102.44	70-130
61 1,1,2-Trichloroethane	50.0	48.7	97.36	70-130
63 Dibromochloromethane	50.0	49.2	98.40	70-130
64 1,3-Dichloropropane	50.0	51.1	102.16	70-130
65 1,2-Dibromoethane(EDB)	50.0	51.4	102.77	70-130
69 2-Hexanone	50.0	49.8	99.69	70-130
71 Chlorobenzene ++	50.0	46.5	92.93	70-130
72 Ethylbenzene +	50.0	46.4	92.73	70-130
73 1,1,1,2-Tetrachloroethane	50.0	46.8	93.60	70-130
74 p,m-Xylene	100	92.7	92.66	70-130
75 o-Xylene	50.0	45.9	91.77	70-130
76 Styrene	50.0	46.7	93.44	70-130
77 Bromoform ++	50.0	48.2	96.41	70-130
78 Isopropylbenzene	50.0	46.2	92.48	70-130
81 Bromobenzene	50.0	45.1	90.25	70-130
82 n-Propylbenzene	50.0	50.2	100.49	70-130
83 1,1,2,2-Tetrachloroethane++	50.0	56.2	112.39	70-130
84 2-Chlorotoluene	50.0	49.4	98.82	70-130
85 1,3,5-Trimethylbenzene	50.0	49.5	99.02	70-130
86 1,2,3-Trichloropropane	50.0	54.4	108.75	70-130
87 trans-1,4-Dichloro-2-Butene	50.0	54.2	108.39	70-130
88 4-Chlorotoluene	50.0	49.9	99.75	70-130
89 tert-butylbenzene	50.0	49.4	98.75	70-130
90 1,2,4-Trimethylbenzene	50.0	48.9	97.71	70-130
91 sec-Butylbenzene	50.0	49.5	98.96	70-130
92 p-Isopropyltoluene	50.0	49.0	97.98	70-130
93 1,3-Dichlorobenzene	50.0	49.2	98.43	70-130
95 1,4-Dichlorobenzene	50.0	48.5	96.91	70-130
96 n-Butylbenzene	50.0	50.4	100.86	70-130
97 1,2-Dichlorobenzene	50.0	47.9	95.86	70-130
99 1,2-Dibromo-3-Chloropropane	50.0	49.7	99.31	70-130
105 Hexachlorobutadiene	50.0	49.5	98.99	70-130
106 1,2,4-Trichlorobenzene	50.0	43.7	87.44	70-130
108 Naphthalene	50.0	44.8	89.57	70-130
109 1,2,3-Trichlorobenzene	50.0	44.7	89.32	70-130

Data file : /var/chem/msv4.i/2050222.s.b/u0398.d
Report Date: 02/22/2005 15:23

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 32 Dibromofluoromethane	50.0	52.0	103.91	73-125
$ 37 1,2-Dichloroethane-d4	50.0	51.1	102.28	70-123
$ 56 Toluene-d8	50.0	54.3	108.61	78-127
$ 80 Bromofluorobenzene	50.0	48.4	96.87	75-120

GCAL, Inc.

Data file : /var/chem/msv4.i/2050222.s.b/u0398.d
Lab Smp Id: 1600 Client Smp ID: ICV050
Inj Date : 22-FEB-2005 15:04
Operator : RFS Inst ID: msv4.i
Smp Info : 1600*ICV050
Misc Info : MSV~ ~*1*MEF
Comment :
Method : /var/chem/msv4.i/2050222.s.b/8260Bw4.m
Meth Date : 22-Feb-2005 15:08 rsp Quant Type: ISTD
Cal Date : 20-FEB-2005 16:07 Cal File: u0358.d
Als bottle: 5 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	1.456	1.463	(0.265)	683657	50.1132	50.1	
2 Chloromethane ++	50	1.589	1.590	(0.289)	596230	52.9994	53.0	
3 Vinyl Chloride +	62	1.643	1.644	(0.299)	620706	46.8508	46.9	
4 Bromomethane	94	1.847	1.854	(0.336)	255546	54.1828	54.2	
5 Chloroethane	64	1.932	1.939	(0.352)	166667	38.1687	38.2	
6 Trichlorofluoromethane	101	2.040	2.047	(0.371)	585750	45.9431	45.9	
8 1,1-Dichloroethene +	96	2.419	2.420	(0.440)	432175	47.5409	47.5	
9 Carbon Disulfide	76	2.437	2.444	(0.444)	1377085	50.7521	50.8	
10 1,1,2Trichlotrifluoroethane	101	2.455	2.462	(0.447)	424457	45.5695	45.6	
11 Methyl Iodide	142	2.533	2.534	(0.461)	730431	51.1161	51.1	
12 Acrolein	56	3.141	3.142	(0.572)	235856	236.262	236	(A)
14 Methylene Chloride	49	2.900	2.907	(0.528)	425330	51.6313	51.6	
15 Acetone	43	2.954	2.961	(0.538)	146529	48.5212	48.5	
16 trans-1,2-Dichloroethene	61	3.051	3.058	(0.555)	482794	50.5506	50.6	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
	17 Methyl Acetate	43	3.087	3.094	(0.562)	180721	55.7767	55.8	2515
	18 Hexane	57	3.141	3.148	(0.572)	610448	49.8261	49.8	2049
	19 MTBE	73	3.177	3.184	(0.578)	1192216	49.8839	49.9	1299
	21 1,1-Dichloroethane ++	63	3.640	3.641	(0.663)	696384	47.6024	47.6	
	22 Acrylonitrile	53	3.688	3.695	(0.671)	795735	277.180	277	(A)
	23 Vinyl Acetate	43	3.923	3.924	(0.714)	717420	61.3791	61.4	
	24 cis-1,2-Dichloroethene	61	4.176	4.183	(0.760)	493998	41.5464	41.5	
	27 2,2-Dichloropropane	77	4.284	4.285	(0.780)	684072	44.6200	44.6	
	28 Bromochloromethane	128	4.368	4.375	(0.795)	360951	50.1843	50.2	
	29 Cyclohexane	56	4.374	4.381	(0.796)	697107	46.0409	46.0	1465
	30 Chloroform +	83	4.465	4.465	(0.813)	1051872	48.0575	48.1	
	31 Carbon Tetrachloride	117	4.597	4.604	(0.837)	849709	45.9225	45.9	
$	32 Dibromofluoromethane	111	4.645	4.652	(0.846)	716507	51.9545	52.0	2381
	33 1,1,1-Trichloroethane	97	4.663	4.670	(0.849)	888804	46.6461	46.6	
	34 2-Butanone	43	4.795	4.802	(0.873)	309544	49.6312	49.6	
	35 1,1-Dichloropropene	75	4.795	4.796	(0.873)	763447	47.9628	48.0	
	36 Benzene	78	5.048	5.055	(0.919)	2458734	49.1982	49.2	
$	37 1,2-Dichloroethane-d4	67	5.187	5.187	(0.944)	375479	51.1391	51.1	
	38 1,2-Dichloroethane	62	5.253	5.260	(0.956)	817940	52.0361	52.0	
*	42 FLUOROBENZENE	96	5.493	5.500	(1.000)	2467426	50.0000		
M	49 Total 1,2-Dichloroethene	61				976793	91.1146	91.1	
	43 Trichloroethene	130	5.674	5.681	(1.033)	715769	45.8141	45.8	
	45 Dibromomethane	93	6.113	6.114	(1.113)	416266	49.9932	50.0	
	47 1,2-Dichloropropane +	63	6.221	6.222	(1.133)	615819	49.2597	49.3	
	48 Bromodichloromethane	83	6.312	6.313	(1.149)	827949	48.4202	48.4	
	51 1-Bromo-2-chloroethane	144	6.811	6.818	(1.240)	117238	48.5442	48.5	9729
	52 2-Chloroethyl vinyl ether	63	6.973	6.974	(1.269)	67124	29.9109	29.9	(R)
	54 cis-1,3-Dichloropropene	75	7.010	7.016	(1.276)	1037097	48.1750	48.2	
$	56 Toluene-d8	98	7.220	7.227	(0.801)	2532176	54.3039	54.3	
	57 Toluene +	91	7.280	7.281	(0.808)	2546882	47.9844	48.0	
	58 4-methyl-2-pentanone	43	7.738	7.738	(1.409)	621092	53.8906	53.9	
	59 Tetrachloroethene	164	7.720	7.720	(0.856)	499605	46.0995	46.1	
	60 trans-1,3-Dichloropropene	75	7.756	7.763	(0.860)	1040250	51.2196	51.2	
	61 1,1,2-Trichloroethane	97	7.936	7.937	(0.880)	618089	48.6795	48.7	
	63 Dibromochloromethane	129	8.135	8.136	(0.903)	739782	49.2014	49.2	
	64 1,3-Dichloropropane	76	8.243	8.244	(0.915)	1096525	51.0795	51.1	
	65 1,2-Dibromoethane(EDB)	107	8.387	8.388	(0.931)	645084	51.3870	51.4	
	69 2-Hexanone	43	8.718	8.719	(0.967)	452503	49.8464	49.8	
*	70 CHLOROBENZENE-d5	82	9.013	9.014	(1.000)	962419	50.0000		
	71 Chlorobenzene ++	112	9.031	9.032	(1.002)	1754350	46.4656	46.5	
	72 Ethylbenzene +	106	9.085	9.092	(1.008)	886402	46.3667	46.4	
	73 1,1,1,2-Tetrachloroethane	133	9.115	9.122	(1.011)	633098	46.7995	46.8	
	74 p,m-Xylene	106	9.272	9.273	(1.029)	2228308	92.6649	92.7	
	75 o-Xylene	106	9.783	9.790	(1.085)	1092162	45.8841	45.9	
	76 Styrene	104	9.855	9.856	(1.093)	1895805	46.7205	46.7	
	77 Bromoform ++	173	9.855	9.856	(1.093)	437921	48.2069	48.2	
	78 Isopropylbenzene	105	10.186	10.187	(1.130)	2734397	46.2379	46.2	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
$ 80 Bromofluorobenzene	174	10.517	10.518	(1.167)	684683	48.4354	48.4	
81 Bromobenzene	77	10.625	10.632	(0.893)	1035689	45.1234	45.1	
82 n-Propylbenzene	91	10.704	10.705	(0.900)	3240069	50.2475	50.2	
83 1,1,2,2-Tetrachloroethane++	83	10.794	10.795	(0.907)	815803	56.1933	56.2	
86 1,2,3-Trichloropropane	75	10.938	10.939	(0.920)	666198	54.3737	54.4	
84 2-Chlorotoluene	91	10.878	10.879	(0.915)	1917049	49.4119	49.4	
88 4-Chlorotoluene	91	11.095	11.096	(0.933)	1971038	49.8767	49.9	
85 1,3,5-Trimethylbenzene	105	10.968	10.969	(0.922)	2298444	49.5090	49.5	
87 trans-1,4-Dichloro-2-Butene	53	11.011	11.017	(0.926)	188816	54.1956	54.2	
M 104 TOTAL XYLENE	106				3320470	138.552	139	
89 tert-butylbenzene	91	11.365	11.366	(0.955)	1294243	49.3774	49.4	
92 p-Isopropyltoluene	119	11.763	11.763	(0.989)	2482823	48.9893	49.0	
90 1,2,4-Trimethylbenzene	105	11.462	11.463	(0.964)	2316543	48.8529	48.9	
91 sec-Butylbenzene	105	11.588	11.589	(0.974)	2892443	49.4801	49.5	
93 1,3-Dichlorobenzene	146	11.811	11.812	(0.993)	1286439	49.2133	49.2	
* 94 1,4-DICHLOROBENZENE-D4	152	11.895	11.896	(1.000)	883812	50.0000		
95 1,4-Dichlorobenzene	146	11.907	11.908	(1.001)	1310572	48.4542	48.5	
96 n-Butylbenzene	91	12.202	12.203	(1.026)	2030796	50.4285	50.4	
97 1,2-Dichlorobenzene	146	12.328	12.329	(1.036)	1227791	47.9285	47.9	
99 1,2-Dibromo-3-Chloropropane	157	13.056	13.057	(1.098)	145886	49.6555	49.7	
106 1,2,4-Trichlorobenzene	180	13.616	13.617	(1.145)	570426	43.7203	43.7	
105 Hexachlorobutadiene	225	13.604	13.605	(1.144)	294041	49.4955	49.5	
108 Naphthalene	128	13.862	13.863	(1.165)	1508452	44.7869	44.8	
109 1,2,3-Trichlorobenzene	180	14.007	14.002	(1.178)	533934	44.6591	44.7	

QC Flag Legend

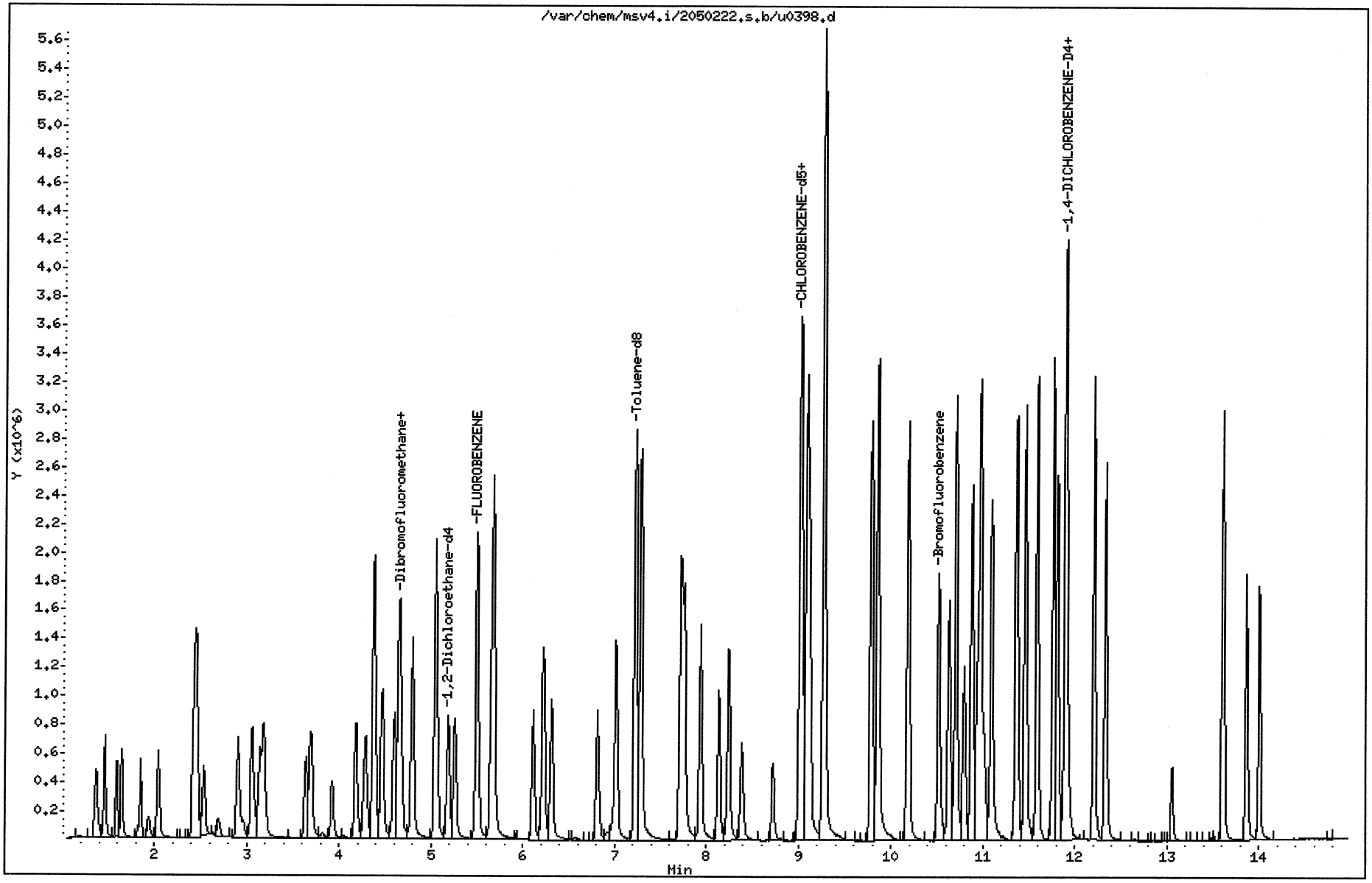
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

000066

Data File: /var/chem/msv4.i/2050222.s.b/u0398.d
Date : 22-FEB-2005 15:04
Client ID: ICV050
Sample Info: 1600*ICV050
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv4.i

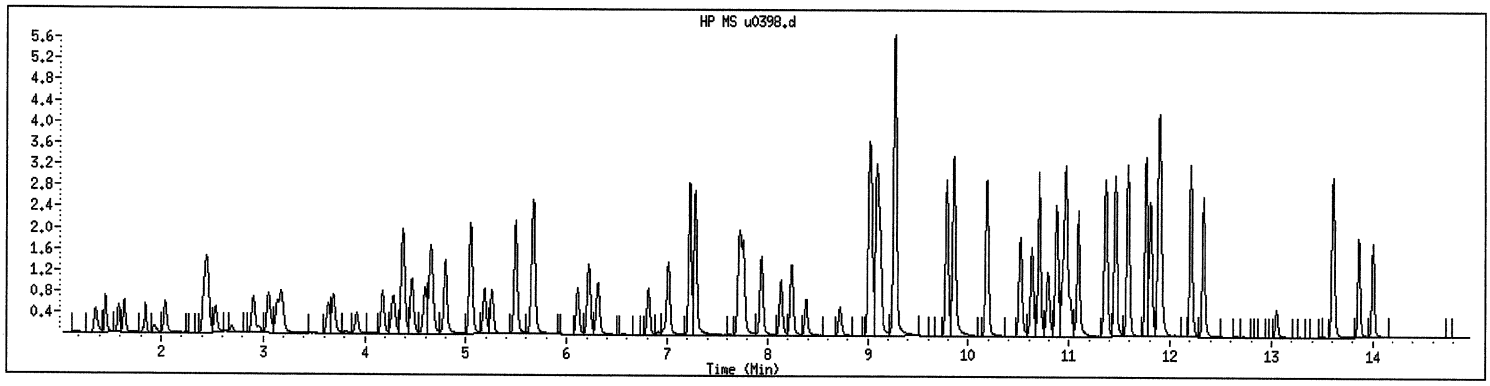
Operator: RFS
Column diameter: 0.53



Data file : /var/chem/msv4.i/2050222.s.b/u0398.d
Report Date: 02/22/2005 15:23

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1600	SampleType	: LCS
Injection Date	: 22-FEB-2005 15:04	Instrument	: msv4.i
Operator	: RFS		
Sample Info	: 1600*ICV050		
Misc Info	: MSV~ ~*1*MEF		
Method	: /var/chem/msv4.i/2050222.s.b/8260Bw4.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.: 205021806

Instrument ID: MSV3

Calibration Date: 02/20/05 Time: 1105

Lab File ID: 2050220/S8707

Init. Calib. Date 1: 01/29/05 Time 1: 0830

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/01/05 Time 2: 0740

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

Analytical Batch: 287760

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
Acetone	0.123	0.121	0	-1.19	50	A
Acrolein	0.030	0.024	0	-18.1	50	A
Acrylonitrile	0.099	0.089	0	-10.4	50	A
Bromochloromethane	0.139	0.149	0	7.54	50	A
Bromodichloromethane	0.370	0.377	0	1.98	50	A
Bromoform	0.456	0.524	.1	15	50	A
Bromomethane	0.183	0.197	0	7.39	50	A
Carbon disulfide	0.781	0.830	0	6.17	50	A
Carbon tetrachloride	0.345	0.377	0	9.45	50	A
Chloroethane	8.764	0.108	0	22.4	50	Q
m,p-Xylene	0.917	1.117	0	21.8	50	A
Chloroform	0.508	0.501	0	-1.54	20	A
Chloromethane	0.258	0.258	.1	.3	50	A
Dibromochloromethane	0.634	0.765	0	20.6	50	A
Dibromomethane	0.190	0.193	0	1.55	50	A
Dichlorodifluoromethane	0.303	0.323	0	6.63	50	A
1,1-Dichloroethane	0.460	0.458	.1	-.4	50	A
1,2-Dichloroethane	0.414	0.408	0	-1.41	50	A
cis-1,2-Dichloroethene	0.407	0.416	0	2.41	50	A
trans-1,2-Dichloroethene	0.342	0.344	0	.61	50	A
Methylene chloride	0.346	0.324	0	-6.4	50	A
1,2-Dichloropropane	0.270	0.264	0	-2.25	20	A
cis-1,3-Dichloropropene	0.415	0.435	0	4.76	50	A
trans-1,3-Dichloropropene	0.408	0.430	0	5.27	50	A
Ethylbenzene	0.759	0.908	0	19.6	20	A
2-Hexanone	0.418	0.421	0	.56	50	A
Isopropylbenzene (Cumene)	50.0	61.1	0	22.2	50	L
2-Butanone	0.153	0.137	0	-10.5	50	A
Methyl iodide	0.392	0.448	0	14.3	50	A
4-Methyl-2-pentanone	0.262	0.237	0	-9.71	50	A
n-Propylbenzene	3.342	3.757	0	12.4	50	A
Styrene	1.601	1.968	0	22.9	50	A
Tetrachloroethene	0.453	0.538	0	18.7	50	A
1,1,1,2-Tetrachloroethane	0.528	0.633	0	20	50	A
1,1,2,2-Tetrachloroethane	0.736	0.802	.3	9	50	A
1,2,4-Trichlorobenzene	0.624	0.794	0	27.1	50	A
1,1,1-Trichloroethane	0.411	0.446	0	8.56	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV3

Calibration Date: 02/20/05 Time: 1105

Lab File ID: 2050220/S8707

Init. Calib. Date 1: 01/29/05 Time 1: 0830

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/01/05 Time 2: 0740

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

Analytical Batch: 287760

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
1,1,2-Trichloroethane	0.508	0.576	0	13.2	50	A
Trichlorofluoromethane	0.400	0.446	0	11.6	50	A
1,2,3-Trichloropropane	0.933	0.988	0	5.8	50	A
1,2,4-Trimethylbenzene	2.103	2.437	0	15.9	50	A
1,3,5-Trimethylbenzene	2.239	2.555	0	14.1	50	A
Vinyl chloride	0.270	0.277	0	2.6	20	A
o-Xylene	0.896	1.095	0	22.2	50	A
1,2-Dibromo-3-chloropropane	50.0	52.2	0	4.4	50	L
1,2-Dibromoethane	0.535	0.635	0	18.5	50	A
Vinyl acetate	0.506	0.516	0	2.09	50	A
tert-Butyl methyl ether (MTBE)	0.599	0.588	0	-1.83	50	A
1,2-Dichloroethene	0.377	0.380	0	.87	50	A
4-Isopropyltoluene	2.286	2.734	0	19.6	50	A
Xylene (total)	0.910	1.110	0	21.9	50	A
Methylcyclohexane	0.413	0.426	0	3.18	50	A
n-Hexane	0.346	0.348	0	.55	50	A
trans-1,4-Dichloro-2-butene	0.215	0.226	0	4.94	50	A
Cyclohexane	0.393	0.384	0	-2.2	50	A
2,2-Dichloropropane	0.344	0.385	0	12	50	A
Methyl Acetate	0.161	0.132	0	-17.8	50	A
Trichlorotrifluoroethane	0.254	0.270	0	6.28	50	A
1,1-Dichloropropene	0.335	0.359	0	7.08	50	A
2-Chloroethylvinyl ether	0.137	0.138	0	1	50	A
1,3-Dichloropropane	0.860	0.969	0	12.6	50	A
Bromobenzene	1.376	1.510	0	9.73	50	A
2-Chlorotoluene	2.143	2.487	0	16.1	50	A
4-Chlorotoluene	2.207	2.562	0	16	50	A
tert-Butylbenzene	1.714	1.957	0	14.2	50	A
sec-Butylbenzene	2.970	3.463	0	16.6	50	A
1,3-Dichlorobenzene	1.352	1.568	0	16	50	A
1,4-Dichlorobenzene	1.360	1.575	0	15.8	50	A
n-Butylbenzene	2.085	2.442	0	17.1	50	A
1,2-Dichlorobenzene	1.283	1.464	0	14.1	50	A
Hexachlorobutadiene	0.547	0.673	0	23	50	A
Naphthalene	50.0	60.6	0	21.2	50	L
1,2,3-Trichlorobenzene	0.592	0.734	0	24.1	50	A
1-Bromo-2-chloroethane	0.406	0.386	0	-5.02	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV3

Calibration Date: 02/20/05 Time: 1105

Lab File ID: 2050220/S8707

Init. Calib. Date 1: 01/29/05 Time 1: 0830

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/01/05 Time 2: 0740

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

Analytical Batch: 287760

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
1,3-Dichloropropylene	0.423	0.432		2.23		A
1,1-Dichloroethene	0.212	0.223	0	4.98	20	A
Benzene	0.949	0.976	0	2.8	50	A
Trichloroethene	0.263	0.281	0	6.8	50	A
Toluene	1.034	1.089	0	5.27	20	A
Chlorobenzene	1.448	1.711	.3	18.2	50	A
4-Bromofluorobenzene	0.798	0.728	0	-8.79	50	A
Dibromofluoromethane	0.386	0.317	0	-17.9	50	A
Toluene-d8	1.144	0.963	0	-15.8	50	A
1,2-Dichloroethane-d4	0.234	0.176	0	-24.9	50	A

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV4

Calibration Date: 02/22/05 Time: 1430

Lab File ID: 2050222/U0397

Init. Calib. Date 1: 02/20/05 Time 1: 1415

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/20/05 Time 2: 1607

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

Analytical Batch: 287866

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
Acetone	50.0	43.4	0	-13.2	50	L
Acrolein	0.020	0.01	0	-52.4	50	A
Acrylonitrile	0.058	0.062	0	6.85	50	A
Bromochloromethane	0.146	0.154	0	5.42	50	A
Bromodichloromethane	0.346	0.355	0	2.59	50	A
Bromoform	0.472	0.456	.1	-3.33	50	A
Bromomethane	0.096	0.118	0	23.2	50	A
Carbon disulfide	0.550	0.617	0	12.2	50	A
Carbon tetrachloride	0.375	0.378	0	.74	50	A
Chloroethane	0.088	0.084	0	-5.15	50	A
m,p-Xylene	1.249	1.265	0	1.29	50	A
Chloroform	0.444	0.457	0	3.04	20	A
Chloromethane	0.228	0.261	.1	14.6	50	A
Dibromochloromethane	0.781	0.787	0	.77	50	A
Dibromomethane	0.169	0.172	0	1.9	50	A
Dichlorodifluoromethane	0.276	0.305	0	10.4	50	A
1,1-Dichloroethane	0.296	0.302	.1	1.75	50	A
1,2-Dichloroethane	0.319	0.339	0	6.39	50	A
cis-1,2-Dichloroethene	0.241	0.234	0	-2.95	50	A
trans-1,2-Dichloroethene	0.194	0.211	0	9.11	50	A
Methylene chloride	0.167	0.185	0	10.9	50	A
1,2-Dichloropropane	0.253	0.260	0	2.72	20	A
cis-1,3-Dichloropropene	0.436	0.447	0	2.36	50	A
trans-1,3-Dichloropropene	1.055	1.109	0	5.11	50	A
Ethylbenzene	0.993	0.987	0	-.66	20	A
2-Hexanone	0.472	0.445	0	-5.55	50	A
Isopropylbenzene (Cumene)	3.072	3.083	0	.34	50	A
2-Butanone	0.126	0.117	0	-7.27	50	A
Methyl iodide	0.290	0.319	0	10.3	50	A
4-Methyl-2-pentanone	0.234	0.229	0	-1.83	50	A
n-Propylbenzene	3.648	3.930	0	7.74	50	A
Styrene	2.108	2.087	0	-1	50	A
Tetrachloroethene	0.563	0.559	0	-.77	50	A
1,1,1,2-Tetrachloroethane	0.703	0.686	0	-2.38	50	A
1,1,2,2-Tetrachloroethane	0.821	0.902	.3	9.8	50	A
1,2,4-Trichlorobenzene	50.0	44.5	0	-11	50	L
1,1,1-Trichloroethane	0.386	0.394	0	2.17	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV4

Calibration Date: 02/22/05 Time: 1430

Lab File ID: 2050222/U0397

Init. Calib. Date 1: 02/20/05 Time 1: 1415

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/20/05 Time 2: 1607

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

Analytical Batch: 287866

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
1,1,2-Trichloroethane	0.660	0.647	0	-1.9	50	A
Trichlorofluoromethane	0.258	0.269	0	4.04	50	A
1,2,3-Trichloropropane	0.693	0.738	0	6.42	50	A
1,2,4-Trimethylbenzene	2.683	2.756	0	2.72	50	A
1,3,5-Trimethylbenzene	2.626	2.775	0	5.65	50	A
Vinyl chloride	0.268	0.290	0	8	20	A
o-Xylene	1.237	1.228	0	-.67	50	A
1,2-Dibromo-3-chloropropane	0.166	0.153	0	-7.88	50	A
1,2-Dibromoethane	0.652	0.661	0	1.31	50	A
Vinyl acetate	0.237	0.296	0	25	50	A
tert-Butyl methyl ether (MTBE)	0.484	0.490	0	1.17	50	A
1,2-Dichloroethene	0.217	0.222	0	2.42	50	A
4-Isopropyltoluene	2.867	3.017	0	5.24	50	A
Xylene (total)	1.245	1.253	0	.64	50	A
Methylcyclohexane	0.350	0.362	0	3.55	50	A
n-Hexane	0.248	0.268	0	7.96	50	A
trans-1,4-Dichloro-2-butene	0.197	0.203	0	2.87	50	A
Cyclohexane	0.307	0.315	0	2.56	50	A
2,2-Dichloropropane	0.311	0.318	0	2.46	50	A
Methyl Acetate	0.066	0.073	0	11.6	50	A
Trichlorotrifluoroethane	0.189	0.191	0	1.29	50	A
1,1-Dichloropropene	0.323	0.338	0	4.79	50	A
2-Chloroethylvinyl ether	50.0	29.3	0	-41.4	50	L
1,3-Dichloropropane	1.115	1.159	0	3.95	50	A
Bromobenzene	1.298	1.238	0	-4.68	50	A
2-Chlorotoluene	2.195	2.341	0	6.67	50	A
4-Chlorotoluene	2.236	2.391	0	6.94	50	A
tert-Butylbenzene	1.483	1.558	0	5.08	50	A
sec-Butylbenzene	3.307	3.491	0	5.55	50	A
1,3-Dichlorobenzene	1.479	1.523	0	3.02	50	A
1,4-Dichlorobenzene	1.530	1.558	0	1.83	50	A
n-Butylbenzene	2.278	2.455	0	7.76	50	A
1,2-Dichlorobenzene	1.449	1.462	0	.89	50	A
Hexachlorobutadiene	0.336	0.351	0	4.51	50	A
Naphthalene	50.0	43.1	0	-13.8	50	L
1,2,3-Trichlorobenzene	50.0	43.7	0	-12.6	50	L
1-Bromo-2-chloroethane	0.049	0.049	0	-.18	50	A

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSV4

Calibration Date: 02/22/05 Time: 1430

Lab File ID: 2050222/U0397

Init. Calib. Date 1: 02/20/05 Time 1: 1415

Heated Purge: (Y/N) N

Init. Calib. Date 2: 02/20/05 Time 2: 1607

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

Analytical Batch: 287866

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
1,1-Dichloroethene	0.184	0.195	0	6.1	20	A
Benzene	1.013	1.043	0	3.03	50	A
Trichloroethene	0.317	0.315	0	-.37	50	A
Toluene	2.757	2.871	0	4.1	20	A
Chlorobenzene	1.962	1.922	.3	-2.01	50	A
4-Bromofluorobenzene	0.734	0.712	0	-3.01	50	A
Dibromofluoromethane	0.279	0.291	0	4.19	50	A
Toluene-d8	2.423	2.645	0	9.17	50	A
1,2-Dichloroethane-d4	0.149	0.155	0	4.27	50	A

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID (Standard): 2050220/S8707

Date Analyzed: 02/20/05

Instrument ID: MSV3

Time: 1105

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

Heated Purge: (Y/N) N

Analytical Batch: 287760

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	2475706	7.018	2288366	9.562	5721995	4.68

EPA Sample		#		#		#		#		#		#
1. LCS224415	2664179		7.02		2278397		9.56		6347678		4.68	
2. MB224414	2062528		7.02		1765641		9.56		5512215		4.68	
3. 05283WC2W050217	2269378		7.02		2028148		9.56		6078536		4.68	
4. 05283WC2W050217MS	2275493		7.02		1952980		9.56		5864866		4.68	
5. 05283WC2W050217MSD	2383264		7.02		2114615		9.56		5269472		4.68	
6. 05283TB1W050217	2534344		7.02		2114891		9.56		5385568		4.68	

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID (Standard): 2050222/U0397

Date Analyzed: 02/22/05

Instrument ID: MSV4

Time: 1430

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

Heated Purge: (Y/N) N

Analytical Batch: 287866

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	942247	9.014	872050	11.89	2420565	5.5

EPA Sample		#		#		#		#		#		#
1. LCS224854	1013013		9.01		861084		11.89		2461912		5.49	
2. MB224853	957162		9.01		725816		11.89		2513743		5.49	
3. 05283WC1W050217 (TCLP)	977476		9.01		775255		11.89		2526674		5.49	
4. 05283WC4W050217 (TCLP)	987600		9.01		727986		11.9		2542410		5.49	

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

DATE: 2-21-05

ZERO HEADSPACE TCLP EXTRACTIONS

BATCH # 287814

ANALYST: GLJ

Sample Number:	2212B1L	2050215140l	2050218060l2	2052180604	2050218030l	2050221902	
Sample Description	MB	RESIN	soil-sand	soil-sand	sticks	CARBON	
Client							
Sample Extractor	4	901	2	302	21	4	
1.VISUAL SAMPLE EVALUATION							
100% solid (Proceed to 3) (√)		√	√	√	√	√	
Sample is <0.5% Solid (√)							
Sample is >0.5% and <100% solid (√)							
2. FILTRATION-ZHE*							
Subsample Weight (g)							
Tedlar Bag Weight (g)							
Weight of Filtrate = (Tedlar Bag + Filtrate) - Tedlar Bag Weight (g)							
Weight of Solid = Subsample Weight - Weight of Filtrate (g)							
% Solid = (Weight of Solid / Subsample Weight) x 100							
3.ZHE EXTRACTION**							
Particle Size Reduced (9.5mm max.) (√)		√	√	√	√	√	
Sample Weight (solid) (g)		25	25	25	25	25	
Amount of Fluid Needed = 20 x Sample Weight (g)	500	500	500	500	500	500	
4. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1600	1600	1600	1600	1600	1600	
Stop Time	800	800	800	800	800	800	
5. FINAL TCLP EXTRACT							
Volume Extract Obtained in Step 3 V1	40ml	40ml	40ml	40ml	40ml	40ml	
Volume Compatible Filtrate from Step 2 V2							
Volume Non-Compatible Filtrate from Step 2 V3							
Compatible Phase Ratio= (V1+V2) + (V1+V2+V3)							
Non-Compatible Phase Ratio= (V3) + (V1+V2+V3)							

* If sample is <0.5 %FS; or <0.5 %DS; Filter fresh sample using ZHE, collect filtrate and skip to 5. If sample is multiphase, filter 25g of sample.

**If sample is 100% solid, charge ZHE with 25 g sample and 500 mL fluid

EXTRACTION FLUID #1 pH and ID: 131-64-3 4.97

Temperature: Minimum °C 20.5 Maximum °C 24.5

Secondary Review: SKB

000076

000023

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 29-JAN-2005
Instrument: msv3.i
Analyst(s): RFS

Standard	Conc ppm
Int. Standard	50
Surrogate	50
8260	50
Ac/Ac/VA	250/50
CVE	50

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s7887.d	0.00	29-JAN-2005 07:32	1.000	2
1000		s7888.d	0.00	29-JAN-2005 07:57	1.000	2
1207		s7889.d	5.00	29-JAN-2005 08:30	1.000	2
1208		s7890.d	5.00	29-JAN-2005 08:52	1.000	3
1209		s7891.d	5.00	29-JAN-2005 09:14	1.000	4
1206		s7892.d	5.00	29-JAN-2005 09:35	1.000	5
1201		s7893.d	5.00	29-JAN-2005 09:57	1.000	6
1202		s7894.d	5.00	29-JAN-2005 10:19	1.000	7
1203		s7895.d	5.00	29-JAN-2005 10:40	1.000	8
1204		s7896.d	5.00	29-JAN-2005 11:02	1.000	9
1205		s7897.d	5.00	29-JAN-2005 11:24	1.000	10
1000		s7898.d	0.00	29-JAN-2005 11:46	1.000	11
1600		s7899.d	5.00	29-JAN-2005 12:08	1.000	12

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 20-FEB-2005
Instrument: msv3.i
Analyst(s): JCK

Standard	Conc ppm	
Int. Standard	50	5-23-6
Surrogate	50	5-23-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-1
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		s8705.d	0.00	20-FEB-2005 09:45	1.000	2
1400		s8706.d	5.00	20-FEB-2005 10:21	1.000	1
1400		s8707.d	5.00	20-FEB-2005 11:05	1.000	1
224415		s8708.d	5.00	20-FEB-2005 11:38	1.000	2
224414		s8709.d	5.00	20-FEB-2005 11:59	1.000	3
224414		s8710.d	5.00	20-FEB-2005 13:08	1.000	3
20502180605		s8711.d	5.00	20-FEB-2005 13:40	10.000	4
20502180605		s8712.d	5.00	20-FEB-2005 14:23	10.000	4
224416		s8713ms.d	5.00	20-FEB-2005 15:11	10.000	5
224417		s8714msd.d	5.00	20-FEB-2005 15:33	10.000	6
BLANK		s8715.d	5.00	20-FEB-2005 15:55	1.000	7
20502180606		s8716.d	5.00	20-FEB-2005 16:28	1.000	8
20502180901		s8717.d	5.00	20-FEB-2005 16:49	2.000	9
20502180901		s8718.d	5.00	20-FEB-2005 17:11	1.000	10
BLANK		s8719.d	5.00	20-FEB-2005 17:48	1.000	11
20502180606		s8720.d	5.00	20-FEB-2005 18:09	1.000	12
BLANK		s8721.d	5.00	20-FEB-2005 18:31	1.000	13
BLANK		s8722.d	5.00	20-FEB-2005 18:53	1.000	14
BLANK		s8723.d	5.00	20-FEB-2005 19:15	1.000	15
BLANK		s8724.d	5.00	20-FEB-2005 19:36	1.000	16
BLANK		s8725.d	5.00	20-FEB-2005 19:58	1.000	1
BLANK		s8726.d	5.00	20-FEB-2005 20:20	1.000	2
BLANK		s8727.d	5.00	20-FEB-2005 20:42	1.000	3
BLANK		s8728.d	5.00	20-FEB-2005 21:04	1.000	4
BLANK		s8729.d	5.00	20-FEB-2005 21:25	1.000	5
BLANK		s8730.d	5.00	20-FEB-2005 21:47	1.000	6
BLANK		s8731.d	5.00	20-FEB-2005 22:09	1.000	7
BLANK		s8732.d	5.00	20-FEB-2005 22:31	1.000	8
BLANK		s8733.d	5.00	20-FEB-2005 22:52	1.000	9
BLANK		s8734.d	5.00	20-FEB-2005 23:14	1.000	10
BLANK		s8735.d	5.00	20-FEB-2005 23:36	1.000	11

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 20-FEB-2005
Instrument: msv4.i
Analyst(s): RFS

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-1
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		u0346.d	0.00	20-FEB-2005 08:51	1.000	2
1000		u0347.d	0.00	20-FEB-2005 09:35	1.000	2
1000		u0348.d	0.00	20-FEB-2005 10:29	1.000	2
1000		u0349.d	0.00	20-FEB-2005 11:09	1.000	2
1000		u0350.d	0.00	20-FEB-2005 12:54	1.000	2
1000		u0351.d	0.00	20-FEB-2005 13:30	1.000	2
1000		u0352.d	0.00	20-FEB-2005 13:52	1.000	2
1206		u0353.d	5.00	20-FEB-2005 14:15	1.000	13
1201		u0354.d	5.00	20-FEB-2005 14:37	1.000	1
1202		u0355.d	5.00	20-FEB-2005 15:00	1.000	2
1203		u0356.d	5.00	20-FEB-2005 15:23	1.000	3
1204		u0357.d	5.00	20-FEB-2005 15:45	1.000	4
1205		u0358.d	5.00	20-FEB-2005 16:07	1.000	5
BLK		u0359.d	5.00	20-FEB-2005 16:30	1.000	6
1600		u0361.d	5.00	20-FEB-2005 17:02	1.000	8
V4STD050		u0364.d	5.00	20-FEB-2005 18:08	1.000	11

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LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 22-FEB-2005
Instrument: msv4.i
Analyst(s): MEF

Standard	Conc ppm	
Int. Standard	50	5-23-7
Surrogate	50	5-20-6
8260	50	5-25-4
Ac/Ac/VA	250/50	5-25-6
CVE	50	5-25-3

Sample ID	Status/Comments	DataFile	WT VOL	Injection Time	DilFactor	ALS
1000		u0396.d	0.00	22-FEB-2005 12:30	1.000	2
1400		u0397.d	5.00	22-FEB-2005 14:30	1.000	4
1600		u0398.d	5.00	22-FEB-2005 15:04	1.000	5
224854		u0399.d	5.00	22-FEB-2005 15:37	1.000	3
224853		u0400.d	5.00	22-FEB-2005 15:59	1.000	4
224853		u0401.d	5.00	22-FEB-2005 16:22	1.000	5
20502151401		u0402.d	5.00	22-FEB-2005 16:45	40.000	6
20502180602		u0403.d	5.00	22-FEB-2005 17:07	40.000	7
20502180604		u0404.d	5.00	22-FEB-2005 17:30	40.000	8
224879		u0405ms.d	5.00	22-FEB-2005 17:53	40.000	9
224880		u0406msd.d	5.00	22-FEB-2005 18:16	40.000	10
BLK		u0407.d	5.00	22-FEB-2005 18:39	1.000	11
20502180301		u0408.d	5.00	22-FEB-2005 19:01	40.000	12
20502211902		u0409.d	5.00	22-FEB-2005 19:24	4000.000	13
20502220901	RR 1:25	u0410.d	5.00	22-FEB-2005 19:47	10.000	14
20502220902	RR 1:25 CO	u0411.d	5.00	22-FEB-2005 20:09	10.000	15
BLANK		u0412a.d	5.00	22-FEB-2005 20:55	1.000	17
20502220903	RR 1:25	u0412b.d	5.00	22-FEB-2005 20:32	10.000	16
20502220904	RR 1:5 CO	u0413.d	5.00	22-FEB-2005 21:18	10.000	18
20502220905	RR 1:5 CO	u0414.d	5.00	22-FEB-2005 21:40	10.000	19
20502220906	RR 1:5 CO	u0415.d	5.00	22-FEB-2005 22:03	10.000	20
20502220907	RR 1:2000 CO	u0416.d	5.00	22-FEB-2005 22:25	2000.000	21
20502220908	RR 1:2500 CO	u0417.d	5.00	22-FEB-2005 22:47	2500.000	22
20502220909	RR 1:2500 CO	u0418.d	5.00	22-FEB-2005 23:15	2500.000	23
BLK		u0419.d	5.00	22-FEB-2005 23:37	1.000	24
BLK		u0420.d	5.00	23-FEB-2005 00:00	1.000	25
BLK		u0421.d	5.00	23-FEB-2005 00:22	1.000	26
BLK		u0422.d	5.00	23-FEB-2005 00:45	1.000	27

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: mg/L

Sample ID: 05283WC1W050217 (TCLP)

Contract:

Lab File ID: 2050223/B6230

Lab Sample ID: 20502180602

Date Collected: 02/17/05 Time: 1150

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1147

Dilution Factor: 1 Analyst: JAR3

Prep Method: 1311/3510

Analytical Method: 1311/8270C

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
106-46-7	1,4-Dichlorobenzene	0.050	U	0.00020	0.050
95-95-4	2,4,5-Trichlorophenol	0.050	U	0.00020	0.050
88-06-2	2,4,6-Trichlorophenol	0.050	U	0.00040	0.050
121-14-2	2,4-Dinitrotoluene	0.050	U	0.00070	0.050
1319-77-3	Cresols	0.100	U	0.00060	0.100
118-74-1	Hexachlorobenzene	0.050	U	0.00030	0.050
87-68-3	Hexachlorobutadiene	0.050	U	0.00030	0.050
67-72-1	Hexachloroethane	0.050	U	0.00030	0.050
98-95-3	Nitrobenzene	0.050	U	0.00020	0.050
87-86-5	Pentachlorophenol	0.100	U	0.00070	0.100
110-86-1	Pyridine	0.050	U	0.00360	0.050
1319-77-3M	m,p-Cresol	0.050	U	0.00030	0.050
95-48-7	o-Cresol	0.050	U	0.00020	0.050

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: mg/L

Sample ID: 05283WC4W050217 (TCLP)

Contract:

Lab File ID: 2050223/B6231

Lab Sample ID: 20502180604

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1202

Dilution Factor: 1 Analyst: JAR3

Prep Method: 1311/3510

Analytical Method: 1311/8270C

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
106-46-7	1,4-Dichlorobenzene	0.050	U	0.00020	0.050
95-95-4	2,4,5-Trichlorophenol	0.050	U	0.00020	0.050
88-06-2	2,4,6-Trichlorophenol	0.050	U	0.00040	0.050
121-14-2	2,4-Dinitrotoluene	0.050	U	0.00070	0.050
1319-77-3	Cresols	0.100	U	0.00060	0.100
118-74-1	Hexachlorobenzene	0.050	U	0.00030	0.050
87-68-3	Hexachlorobutadiene	0.050	U	0.00030	0.050
67-72-1	Hexachloroethane	0.050	U	0.00030	0.050
98-95-3	Nitrobenzene	0.050	U	0.00020	0.050
87-86-5	Pentachlorophenol	0.100	U	0.00070	0.100
110-86-1	Pyridine	0.050	U	0.00360	0.050
1319-77-3M	m,p-Cresol	0.050	U	0.00030	0.050
95-48-7	o-Cresol	0.050	U	0.00020	0.050

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC2W050217

Contract:

Lab File ID: 2050223/B6239

Lab Sample ID: 20502180605

Date Collected: 02/17/05 Time: 1215

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1401

Dilution Factor: 10 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	100	U	2.69	100
95-95-4	2,4,5-Trichlorophenol	40.0	U	2.07	40.0
88-06-2	2,4,6-Trichlorophenol	30.0	U	4.20	30.0
120-83-2	2,4-Dichlorophenol	5.00	U	2.92	5.00
51-28-5	2,4-Dinitrophenol	500	U	4.38	500
121-14-2	2,4-Dinitrotoluene	4.00	U	4.00	4.00
606-20-2	2,6-Dinitrotoluene	4.00	U	3.06	4.00
91-58-7	2-Chloronaphthalene	100	U	2.07	100
95-57-8	2-Chlorophenol	100	U	2.21	100
91-57-6	2-Methylnaphthalene	135		1.64	100
88-74-4	2-Nitroaniline	500	U	1.50	500
88-75-5	2-Nitrophenol	100	U	3.78	100
91-94-1	3,3'-Dichlorobenzidine	200	U	2.00	200
99-09-2	3-Nitroaniline	500	U	2.73	500
534-52-1	2-Methyl-4,6-dinitrophenol	500	U	7.59	500
59-50-7	4-Chloro-3-methylphenol	100	U	2.83	100
106-47-8	4-Chloroaniline	100	U	2.23	100
7005-72-3	4-Chlorophenyl-phenylether	100	U	2.43	100
83-32-9	Acenaphthene	100	U	2.19	100
208-96-8	Acenaphthylene	100	U	1.56	100
98-86-2	Acetophenone	100	U	3.15	100
120-12-7	Anthracene	20.8	J	1.99	100
1912-24-9	Atrazine (Aatrex)	200	U	4.73	200
100-52-7	Benzaldehyde	200	U	4.70	200
56-55-3	Benzo(a)anthracene	4.00	U	2.05	4.00
50-32-8	Benzo(a)pyrene	4.00	U	1.30	4.00
205-99-2	Benzo(b)fluoranthene	4.00	U	2.44	4.00
191-24-2	Benzo(g,h,i)perylene	100	U	1.99	100
207-08-9	Benzo(k)fluoranthene	5.00	U	2.69	5.00

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC2W050217

Contract:

Lab File ID: 2050223/B6239

Lab Sample ID: 20502180605

Date Collected: 02/17/05 Time: 1215

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1401

Dilution Factor: 10 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	100	U	1.04	100
111-91-1	Bis(2-Chloroethoxy)methane	100	U	1.55	100
111-44-4	Bis(2-Chloroethyl)ether	40.0	U	3.57	40.0
108-60-1	bis(2-Chloroisopropyl)ether	100	U	2.83	100
117-81-7	bis(2-ethylhexyl)phthalate	49.9	J	5.85	50.0
85-68-7	Butylbenzylphthalate	100	U	3.56	100
105-60-2	Caprolactam	100	U	3.09	100
86-74-8	Carbazole	40.0	U	2.14	40.0
218-01-9	Chrysene	50.0	U	3.11	50.0
84-74-2	Di-n-butylphthalate	100	U	7.35	100
117-84-0	Di-n-octylphthalate	100	U	1.40	100
53-70-3	Dibenz(a,h)anthracene	4.00	U	2.87	4.00
132-64-9	Dibenzofuran	100	U	1.18	100
84-66-2	Diethylphthalate	100	U	3.42	100
131-11-3	Dimethyl-phthalate	100	U	2.06	100
105-67-9	2,4-Dimethylphenol	100	U	5.32	100
206-44-0	Fluoranthene	100	U	2.31	100
86-73-7	Fluorene	100	U	2.30	100
118-74-1	Hexachlorobenzene	10.0	U	2.91	10.0
87-68-3	Hexachlorobutadiene	5.00	U	3.31	5.00
77-47-4	Hexachlorocyclopentadiene	100	U	1.62	100
67-72-1	Hexachloroethane	20.0	U	3.14	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	4.00	U	2.40	4.00
78-59-1	Isophorone	100	U	2.71	100
91-20-3	Naphthalene	64.3	J	2.11	100
100-01-6	4-Nitroaniline	500	U	1.19	500
98-95-3	Nitrobenzene	40.0	U	1.68	40.0
100-02-7	4-Nitrophenol	500	U	3.45	500
87-86-5	Pentachlorophenol	500	U	7.48	500

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC2W050217

Contract:

Lab File ID: 2050223/B6239

Lab Sample ID: 20502180605

Date Collected: 02/17/05 Time: 1215

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1401

Dilution Factor: 10 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	100	U	1.91	100
108-95-2	Phenol	30.5	J	1.32	100
129-00-0	Pyrene	100	U	2.34	100
1319-77-3M	m,p-Cresol	69.3	J	2.84	100
621-64-7	N-Nitroso-di-n-propylamine	40.0	U	1.24	40.0
55-18-5	N-Nitrosodiethylamine	100	U	16.9	100
62-75-9	N-Nitrosodimethylamine	100	U	8.39	100
86-30-6	N-Nitrosodiphenylamine	70.0	U	2.47	70.0
95-48-7	o-Cresol	22.5	J	2.35	100

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: MB224688

Contract:

Lab File ID: 2050223/B6226

Lab Sample ID: 224688

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1047

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	10.0	U	0.269	10.0
95-95-4	2,4,5-Trichlorophenol	4.00	U	0.207	4.00
88-06-2	2,4,6-Trichlorophenol	3.00	U	0.420	3.00
120-83-2	2,4-Dichlorophenol	0.500	U	0.292	0.500
51-28-5	2,4-Dinitrophenol	50.0	U	0.438	50.0
121-14-2	2,4-Dinitrotoluene	0.400	U	0.400	0.400
606-20-2	2,6-Dinitrotoluene	0.400	U	0.306	0.400
91-58-7	2-Chloronaphthalene	10.0	U	0.207	10.0
95-57-8	2-Chlorophenol	10.0	U	0.221	10.0
91-57-6	2-Methylnaphthalene	10.0	U	0.164	10.0
88-74-4	2-Nitroaniline	50.0	U	0.150	50.0
88-75-5	2-Nitrophenol	10.0	U	0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.200	20.0
99-09-2	3-Nitroaniline	50.0	U	0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.759	50.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	0.283	10.0
106-47-8	4-Chloroaniline	10.0	U	0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	0.243	10.0
83-32-9	Acenaphthene	10.0	U	0.219	10.0
208-96-8	Acenaphthylene	10.0	U	0.156	10.0
98-86-2	Acetophenone	10.0	U	0.315	10.0
120-12-7	Anthracene	10.0	U	0.199	10.0
1912-24-9	Atrazine (Aatrex)	20.0	U	0.473	20.0
100-52-7	Benzaldehyde	20.0	U	0.470	20.0
56-55-3	Benzo(a)anthracene	0.400	U	0.205	0.400
50-32-8	Benzo(a)pyrene	0.400	U	0.130	0.400
205-99-2	Benzo(b)fluoranthene	0.400	U	0.244	0.400
191-24-2	Benzo(g,h,i)perylene	10.0	U	0.199	10.0
207-08-9	Benzo(k)fluoranthene	0.500	U	0.269	0.500

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: MB224688

Contract:

Lab File ID: 2050223/B6226

Lab Sample ID: 224688

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1047

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	10.0	U	0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	4.00	U	0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	5.00	U	0.585	5.00
85-68-7	Butylbenzylphthalate	10.0	U	0.356	10.0
105-60-2	Caprolactam	10.0	U	0.309	10.0
86-74-8	Carbazole	4.00	U	0.214	4.00
218-01-9	Chrysene	5.00	U	0.311	5.00
84-74-2	Di-n-butylphthalate	10.0	U	0.735	10.0
117-84-0	Di-n-octylphthalate	10.0	U	0.140	10.0
53-70-3	Dibenz(a,h)anthracene	0.400	U	0.287	0.400
132-64-9	Dibenzofuran	10.0	U	0.118	10.0
84-66-2	Diethylphthalate	10.0	U	0.342	10.0
131-11-3	Dimethyl-phthalate	10.0	U	0.206	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	0.532	10.0
206-44-0	Fluoranthene	10.0	U	0.231	10.0
86-73-7	Fluorene	10.0	U	0.230	10.0
118-74-1	Hexachlorobenzene	1.00	U	0.291	1.00
87-68-3	Hexachlorobutadiene	0.500	U	0.331	0.500
77-47-4	Hexachlorocyclopentadiene	10.0	U	0.162	10.0
67-72-1	Hexachloroethane	2.00	U	0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	0.400	U	0.240	0.400
78-59-1	Isophorone	10.0	U	0.271	10.0
91-20-3	Naphthalene	10.0	U	0.211	10.0
100-01-6	4-Nitroaniline	50.0	U	0.119	50.0
98-95-3	Nitrobenzene	4.00	U	0.168	4.00
100-02-7	4-Nitrophenol	50.0	U	0.345	50.0
87-86-5	Pentachlorophenol	50.0	U	0.748	50.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: MB224688

Contract:

Lab File ID: 2050223/B6226

Lab Sample ID: 224688

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1047

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	10.0	U	0.191	10.0
108-95-2	Phenol	10.0	U	0.132	10.0
129-00-0	Pyrene	10.0	U	0.234	10.0
1319-77-3M	m,p-Cresol	10.0	U	0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	4.00	U	0.124	4.00
62-75-9	N-Nitrosodimethylamine	10.0	U	0.839	10.0
86-30-6	N-Nitrosodiphenylamine	7.00	U	0.247	7.00
95-48-7	o-Cresol	10.0	U	0.235	10.0
106-46-7	1,4-Dichlorobenzene	10.0	U	0.210	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCS224689

Contract:

Lab File ID: 2050223/B6227

Lab Sample ID: 224689

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1102

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	70.8		0.269	10.0
95-95-4	2,4,5-Trichlorophenol	86.5		0.207	4.00
88-06-2	2,4,6-Trichlorophenol	86.5		0.420	3.00
120-83-2	2,4-Dichlorophenol	83.3		0.292	0.500
51-28-5	2,4-Dinitrophenol	86.4		0.438	50.0
121-14-2	2,4-Dinitrotoluene	92.0		0.400	0.400
606-20-2	2,6-Dinitrotoluene	94.2		0.306	0.400
91-58-7	2-Chloronaphthalene	80.2		0.207	10.0
95-57-8	2-Chlorophenol	75.2		0.221	10.0
91-57-6	2-Methylnaphthalene	76.9		0.164	10.0
88-74-4	2-Nitroaniline	93.4		0.150	50.0
88-75-5	2-Nitrophenol	85.0		0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	77.4		0.200	20.0
99-09-2	3-Nitroaniline	81.7		0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	92.5		0.759	50.0
59-50-7	4-Chloro-3-methylphenol	77.8		0.283	10.0
106-47-8	4-Chloroaniline	78.5		0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	83.5		0.243	10.0
83-32-9	Acenaphthene	83.7		0.219	10.0
208-96-8	Acenaphthylene	81.5		0.156	10.0
98-86-2	Acetophenone	78.2		0.315	10.0
120-12-7	Anthracene	85.9		0.199	10.0
1912-24-9	Atrazine (Aatrex)	92.0		0.473	20.0
100-52-7	Benzaldehyde	347		0.470	20.0
56-55-3	Benzo(a)anthracene	83.1		0.205	0.400
50-32-8	Benzo(a)pyrene	83.6		0.130	0.400
205-99-2	Benzo(b)fluoranthene	85.5		0.244	0.400
191-24-2	Benzo(g,h,i)perylene	85.3		0.199	10.0
207-08-9	Benzo(k)fluoranthene	93.8		0.269	0.500

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCS224689

Contract:

Lab File ID: 2050223/B6227

Lab Sample ID: 224689

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1102

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	57.3		0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	84.6		0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	70.2		0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	80.5		0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	87.8		0.585	5.00
85-68-7	Butylbenzylphthalate	93.7		0.356	10.0
105-60-2	Caprolactam	19.0		0.309	10.0
86-74-8	Carbazole	82.8		0.214	4.00
218-01-9	Chrysene	86.6		0.311	5.00
84-74-2	Di-n-butylphthalate	89.4		0.735	10.0
117-84-0	Di-n-octylphthalate	87.6		0.140	10.0
53-70-3	Dibenz(a,h)anthracene	82.8		0.287	0.400
132-64-9	Dibenzofuran	86.7		0.118	10.0
84-66-2	Diethylphthalate	89.6		0.342	10.0
131-11-3	Dimethyl-phthalate	90.5		0.206	10.0
105-67-9	2,4-Dimethylphenol	63.7		0.532	10.0
206-44-0	Fluoranthene	88.8		0.231	10.0
86-73-7	Fluorene	86.1		0.230	10.0
118-74-1	Hexachlorobenzene	78.3		0.291	1.00
87-68-3	Hexachlorobutadiene	61.8		0.331	0.500
77-47-4	Hexachlorocyclopentadiene	29.0		0.162	10.0
67-72-1	Hexachloroethane	60.6		0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	85.3		0.240	0.400
78-59-1	Isophorone	83.6		0.271	10.0
91-20-3	Naphthalene	75.2		0.211	10.0
100-01-6	4-Nitroaniline	90.0		0.119	50.0
98-95-3	Nitrobenzene	78.3		0.168	4.00
100-02-7	4-Nitrophenol	19.5	J	0.345	50.0
87-86-5	Pentachlorophenol	83.1		0.748	50.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCS224689

Contract:

Lab File ID: 2050223/B6227

Lab Sample ID: 224689

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1102

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	86.7		0.191	10.0
108-95-2	Phenol	25.8		0.132	10.0
129-00-0	Pyrene	90.5		0.234	10.0
1319-77-3M	m,p-Cresol	52.1		0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	76.2		0.124	4.00
62-75-9	N-Nitrosodimethylamine	29.9		0.839	10.0
86-30-6	N-Nitrosodiphenylamine	83.1		0.247	7.00
95-48-7	o-Cresol	58.8		0.235	10.0
106-46-7	1,4-Dichlorobenzene	68.0		0.210	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCSD224690

Contract:

Lab File ID: 2050223/B6228

Lab Sample ID: 224690

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1117

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	67.0		0.269	10.0
95-95-4	2,4,5-Trichlorophenol	81.2		0.207	4.00
88-06-2	2,4,6-Trichlorophenol	83.5		0.420	3.00
120-83-2	2,4-Dichlorophenol	82.0		0.292	0.500
51-28-5	2,4-Dinitrophenol	79.6		0.438	50.0
121-14-2	2,4-Dinitrotoluene	92.1		0.400	0.400
606-20-2	2,6-Dinitrotoluene	93.7		0.306	0.400
91-58-7	2-Chloronaphthalene	75.7		0.207	10.0
95-57-8	2-Chlorophenol	74.0		0.221	10.0
91-57-6	2-Methylnaphthalene	74.8		0.164	10.0
88-74-4	2-Nitroaniline	88.0		0.150	50.0
88-75-5	2-Nitrophenol	82.3		0.378	10.0
91-94-1	3,3'-Dichlorobenzidine	77.2		0.200	20.0
99-09-2	3-Nitroaniline	76.7		0.273	50.0
534-52-1	2-Methyl-4,6-dinitrophenol	87.4		0.759	50.0
59-50-7	4-Chloro-3-methylphenol	77.5		0.283	10.0
106-47-8	4-Chloroaniline	73.1		0.223	10.0
7005-72-3	4-Chlorophenyl-phenylether	81.1		0.243	10.0
83-32-9	Acenaphthene	79.5		0.219	10.0
208-96-8	Acenaphthylene	78.1		0.156	10.0
98-86-2	Acetophenone	82.0		0.315	10.0
120-12-7	Anthracene	83.3		0.199	10.0
1912-24-9	Atrazine (Aatrex)	88.8		0.473	20.0
100-52-7	Benzaldehyde	326		0.470	20.0
56-55-3	Benzo(a)anthracene	80.6		0.205	0.400
50-32-8	Benzo(a)pyrene	79.0		0.130	0.400
205-99-2	Benzo(b)fluoranthene	87.2		0.244	0.400
191-24-2	Benzo(g,h,i)perylene	89.9		0.199	10.0
207-08-9	Benzo(k)fluoranthene	90.5		0.269	0.500

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCSD224690

Contract:

Lab File ID: 2050223/B6228

Lab Sample ID: 224690

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1117

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	57.3		0.104	10.0
111-91-1	Bis(2-Chloroethoxy)methane	81.6		0.155	10.0
111-44-4	Bis(2-Chloroethyl)ether	69.8		0.357	4.00
108-60-1	bis(2-Chloroisopropyl)ether	82.6		0.283	10.0
117-81-7	bis(2-ethylhexyl)phthalate	87.3		0.585	5.00
85-68-7	Butylbenzylphthalate	95.2		0.356	10.0
105-60-2	Caprolactam	19.9		0.309	10.0
86-74-8	Carbazole	80.2		0.214	4.00
218-01-9	Chrysene	91.5		0.311	5.00
84-74-2	Di-n-butylphthalate	86.7		0.735	10.0
117-84-0	Di-n-octylphthalate	87.7		0.140	10.0
53-70-3	Dibenz(a,h)anthracene	88.1		0.287	0.400
132-64-9	Dibenzofuran	83.9		0.118	10.0
84-66-2	Diethylphthalate	86.2		0.342	10.0
131-11-3	Dimethyl-phthalate	88.2		0.206	10.0
105-67-9	2,4-Dimethylphenol	52.4		0.532	10.0
206-44-0	Fluoranthene	87.0		0.231	10.0
86-73-7	Fluorene	82.0		0.230	10.0
118-74-1	Hexachlorobenzene	81.6		0.291	1.00
87-68-3	Hexachlorobutadiene	58.8		0.331	0.500
77-47-4	Hexachlorocyclopentadiene	23.4		0.162	10.0
67-72-1	Hexachloroethane	59.4		0.314	2.00
193-39-5	Indeno(1,2,3-cd)pyrene	89.7		0.240	0.400
78-59-1	Isophorone	81.5		0.271	10.0
91-20-3	Naphthalene	72.4		0.211	10.0
100-01-6	4-Nitroaniline	81.0		0.119	50.0
98-95-3	Nitrobenzene	74.2		0.168	4.00
100-02-7	4-Nitrophenol	23.5	J	0.345	50.0
87-86-5	Pentachlorophenol	80.8		0.748	50.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: LCSD224690

Contract:

Lab File ID: 2050223/B6228

Lab Sample ID: 224690

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1117

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	85.1		0.191	10.0
108-95-2	Phenol	30.3		0.132	10.0
129-00-0	Pyrene	92.3		0.234	10.0
1319-77-3M	m,p-Cresol	56.8		0.284	10.0
621-64-7	N-Nitroso-di-n-propylamine	79.8		0.124	4.00
62-75-9	N-Nitrosodimethylamine	31.7		0.839	10.0
86-30-6	N-Nitrosodiphenylamine	86.8		0.247	7.00
95-48-7	o-Cresol	63.5		0.235	10.0
106-46-7	1,4-Dichlorobenzene	65.6		0.210	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC4W050217 (...MS

Contract:

Lab File ID: 2050223/B6232

Lab Sample ID: 224691

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1216

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	376		1.35	50.0
95-95-4	2,4,5-Trichlorophenol	440		1.03	20.0
88-06-2	2,4,6-Trichlorophenol	451		2.10	15.0
120-83-2	2,4-Dichlorophenol	442		1.46	2.50
51-28-5	2,4-Dinitrophenol	403		2.19	250
121-14-2	2,4-Dinitrotoluene	444		2.00	2.00
606-20-2	2,6-Dinitrotoluene	467		1.53	2.00
91-58-7	2-Chloronaphthalene	437		1.03	50.0
95-57-8	2-Chlorophenol	399		1.10	50.0
91-57-6	2-Methylnaphthalene	408		0.820	50.0
88-74-4	2-Nitroaniline	464		0.750	250
88-75-5	2-Nitrophenol	423		1.89	50.0
91-94-1	3,3'-Dichlorobenzidine	365		0.998	100
99-09-2	3-Nitroaniline	346		1.36	250
534-52-1	2-Methyl-4,6-dinitrophenol	477		3.80	250
59-50-7	4-Chloro-3-methylphenol	405		1.42	50.0
106-47-8	4-Chloroaniline	353		1.12	50.0
7005-72-3	4-Chlorophenyl-phenylether	428		1.21	50.0
83-32-9	Acenaphthene	428		1.10	50.0
208-96-8	Acenaphthylene	423		0.778	50.0
98-86-2	Acetophenone	431		1.58	50.0
120-12-7	Anthracene	444		0.993	50.0
1912-24-9	Atrazine (Aatrex)	479		2.37	100
100-52-7	Benzaldehyde	1760		2.35	100
56-55-3	Benzo(a)anthracene	417		1.03	2.00
50-32-8	Benzo(a)pyrene	388		0.650	2.00
205-99-2	Benzo(b)fluoranthene	460		1.22	2.00
191-24-2	Benzo(g,h,i)perylene	449		0.996	50.0
207-08-9	Benzo(k)fluoranthene	455		1.34	2.50

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC4W050217 (...MS

Contract:

Lab File ID: 2050223/B6232

Lab Sample ID: 224691

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1216

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	298		0.518	50.0
111-91-1	Bis(2-Chloroethoxy)methane	431		0.775	50.0
111-44-4	Bis(2-Chloroethyl)ether	386		1.79	20.0
108-60-1	bis(2-Chloroisopropyl)ether	433		1.41	50.0
117-81-7	bis(2-ethylhexyl)phthalate	456		2.93	25.0
85-68-7	Butylbenzylphthalate	485		1.78	50.0
105-60-2	Caprolactam	103		1.55	50.0
86-74-8	Carbazole	420		1.07	20.0
218-01-9	Chrysene	453		1.56	25.0
84-74-2	Di-n-butylphthalate	455		3.68	50.0
117-84-0	Di-n-octylphthalate	467		0.698	50.0
53-70-3	Dibenz(a,h)anthracene	441		1.44	2.00
132-64-9	Dibenzofuran	444		0.592	50.0
84-66-2	Diethylphthalate	444		1.71	50.0
131-11-3	Dimethyl-phthalate	452		1.03	50.0
105-67-9	2,4-Dimethylphenol	264		2.66	50.0
206-44-0	Fluoranthene	449		1.16	50.0
86-73-7	Fluorene	429		1.15	50.0
118-74-1	Hexachlorobenzene	455		1.45	5.00
87-68-3	Hexachlorobutadiene	353		1.65	2.50
77-47-4	Hexachlorocyclopentadiene	130		0.810	50.0
67-72-1	Hexachloroethane	352		1.57	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	436		1.20	2.00
78-59-1	Isophorone	430		1.35	50.0
91-20-3	Naphthalene	405		1.05	50.0
100-01-6	4-Nitroaniline	388		0.595	250
98-95-3	Nitrobenzene	414		0.841	20.0
100-02-7	4-Nitrophenol	134	J	1.72	250
87-86-5	Pentachlorophenol	453		3.74	250

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC4W050217 (...MS

Contract:

Lab File ID: 2050223/B6232

Lab Sample ID: 224691

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1216

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	464		0.955	50.0
108-95-2	Phenol	162		0.659	50.0
129-00-0	Pyrene	465		1.17	50.0
1319-77-3M	m,p-Cresol	304		1.42	50.0
621-64-7	N-Nitroso-di-n-propylamine	425		0.618	20.0
62-75-9	N-Nitrosodimethylamine	226		4.20	50.0
86-30-6	N-Nitrosodiphenylamine	477		1.23	35.0
95-48-7	o-Cresol	355		1.18	50.0
106-46-7	1,4-Dichlorobenzene	370		1.05	50.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: 05283WC4W050217 ...MSD

Contract:

Lab File ID: 2050223/B6233

Lab Sample ID: 224692

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1231

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
120-82-1	1,2,4-Trichlorobenzene	365		1.35	50.0
95-95-4	2,4,5-Trichlorophenol	425		1.03	20.0
88-06-2	2,4,6-Trichlorophenol	429		2.10	15.0
120-83-2	2,4-Dichlorophenol	437		1.46	2.50
51-28-5	2,4-Dinitrophenol	437		2.19	250
121-14-2	2,4-Dinitrotoluene	453		2.00	2.00
606-20-2	2,6-Dinitrotoluene	480		1.53	2.00
91-58-7	2-Chloronaphthalene	404		1.03	50.0
95-57-8	2-Chlorophenol	392		1.10	50.0
91-57-6	2-Methylnaphthalene	417		0.820	50.0
88-74-4	2-Nitroaniline	463		0.750	250
88-75-5	2-Nitrophenol	414		1.89	50.0
91-94-1	3,3'-Dichlorobenzidine	360		0.998	100
99-09-2	3-Nitroaniline	388		1.36	250
534-52-1	2-Methyl-4,6-dinitrophenol	463		3.80	250
59-50-7	4-Chloro-3-methylphenol	434		1.42	50.0
106-47-8	4-Chloroaniline	375		1.12	50.0
7005-72-3	4-Chlorophenyl-phenylether	435		1.21	50.0
83-32-9	Acenaphthene	420		1.10	50.0
208-96-8	Acenaphthylene	403		0.778	50.0
98-86-2	Acetophenone	428		1.58	50.0
120-12-7	Anthracene	425		0.993	50.0
1912-24-9	Atrazine (Aatrex)	471		2.37	100
100-52-7	Benzaldehyde	1690		2.35	100
56-55-3	Benzo(a)anthracene	425		1.03	2.00
50-32-8	Benzo(a)pyrene	401		0.650	2.00
205-99-2	Benzo(b)fluoranthene	452		1.22	2.00
191-24-2	Benzo(g,h,i)perylene	467		0.996	50.0
207-08-9	Benzo(k)fluoranthene	469		1.34	2.50

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC4W050217 ...MSD

Contract:

Lab File ID: 2050223/B6233

Lab Sample ID: 224692

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1231

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
92-52-4	Biphenyl	325		0.518	50.0
111-91-1	Bis(2-Chloroethoxy)methane	430		0.775	50.0
111-44-4	Bis(2-Chloroethyl)ether	373		1.79	20.0
108-60-1	bis(2-Chloroisopropyl)ether	421		1.41	50.0
117-81-7	bis(2-ethylhexyl)phthalate	459		2.93	25.0
85-68-7	Butylbenzylphthalate	489		1.78	50.0
105-60-2	Caprolactam	136		1.55	50.0
86-74-8	Carbazole	404		1.07	20.0
218-01-9	Chrysene	457		1.56	25.0
84-74-2	Di-n-butylphthalate	465		3.68	50.0
117-84-0	Di-n-octylphthalate	468		0.698	50.0
53-70-3	Dibenz(a,h)anthracene	447		1.44	2.00
132-64-9	Dibenzofuran	446		0.592	50.0
84-66-2	Diethylphthalate	453		1.71	50.0
131-11-3	Dimethyl-phthalate	462		1.03	50.0
105-67-9	2,4-Dimethylphenol	302		2.66	50.0
206-44-0	Fluoranthene	448		1.16	50.0
86-73-7	Fluorene	438		1.15	50.0
118-74-1	Hexachlorobenzene	423		1.45	5.00
87-68-3	Hexachlorobutadiene	332		1.65	2.50
77-47-4	Hexachlorocyclopentadiene	97.6		0.810	50.0
67-72-1	Hexachloroethane	331		1.57	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	446		1.20	2.00
78-59-1	Isophorone	437		1.35	50.0
91-20-3	Naphthalene	387		1.05	50.0
100-01-6	4-Nitroaniline	419		0.595	250
98-95-3	Nitrobenzene	403		0.841	20.0
100-02-7	4-Nitrophenol	165	J	1.72	250
87-86-5	Pentachlorophenol	417		3.74	250

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Matrix: Soil

Sample wt/vol: 200 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: RTX-5MS-30 ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC4W050217 ...MSD

Contract:

Lab File ID: 2050223/B6233

Lab Sample ID: 224692

Date Collected: 02/17/05 Time: 1545

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1231

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3510C

Analytical Method: SW-846 8270

Instrument ID: MSSV3

Prep Batch: 287820 Analytical Batch: 287858

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
85-01-8	Phenanthrene	439		0.955	50.0
108-95-2	Phenol	181		0.659	50.0
129-00-0	Pyrene	486		1.17	50.0
1319-77-3M	m,p-Cresol	332		1.42	50.0
621-64-7	N-Nitroso-di-n-propylamine	436		0.618	20.0
62-75-9	N-Nitrosodimethylamine	209		4.20	50.0
86-30-6	N-Nitrosodiphenylamine	426		1.23	35.0
95-48-7	o-Cresol	356		1.18	50.0
106-46-7	1,4-Dichlorobenzene	347		1.05	50.0

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Method: SW-846 8270 Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1.	05283WC2W050217	0	D	0	D	0	D	0	D	0	D	0	D	0
2.	LCS224689	82		78		94		23		24		80		0
3.	LCSD224690	77		72		93		27		26		76		0
4.	MB224688	73		72		104		26		24		72		0

CONTROL LIMITS

SMC 1	Nitrobenzene-d5	43	110
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	47	121
SMC 4	Phenol-d5	10	76
SMC 5	2-Fluorophenol	24	96
SMC 6	2,4,6-Tribromophenol	19	133

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Method: 1311/8270C Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1.	LCS224689	82		78		94		23		24		80		0
2.	LCSD224690	77		72		93		27		26		76		0
3.	MB224688	73		72		104		26		24		72		0

CONTROL LIMITS

SMC 1	Nitrobenzene-d5	43	110
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	47	121
SMC 4	Phenol-d5	10	76
SMC 5	2-Fluorophenol	24	96
SMC 6	2,4,6-Tribromophenol	19	133

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Method: 1311/8270C Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	SMC5	#	SMC6	#	TOT OUT
1.	05283WC1W050217 (TCLP)	81		74		105		27		34		76		0
2.	05283WC4W050217 (TCLP)	84		74		104		27		35		74		0
3.	05283WC4W050217 (...MS	85		84		92		28		35		82		0
4.	05283WC4W050217 ...MSD	82		80		101		33		38		81		0

		CONTROL LIMITS	
SMC 1	Nitrobenzene-d5	43	110
SMC 2	2-Fluorobiphenyl	16	128
SMC 3	Terphenyl-d14	47	121
SMC 4	Phenol-d5	10	76
SMC 5	2-Fluorophenol	24	96
SMC 6	2,4,6-Tribromophenol	19	133

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3C
WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8270

Prep Batch: 287820 Analytical Batch.: 287858

Spike HSN : 224689

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC FLAG	QC. LIMITS
1,2,4-Trichlorobenzene	ug/L	100	0	70.8	71		30 - 107
1,4-Dichlorobenzene	ug/L	100	0	68	68		22 - 104
2,4,5-Trichlorophenol	ug/L	100	0	86.5	87		60 - 116
2,4,6-Trichlorophenol	ug/L	100	0	86.5	87		59 - 115
2,4-Dichlorophenol	ug/L	100	0	83.3	83		55 - 114
2,4-Dimethylphenol	ug/L	100	0	63.7	64		14 - 122
2,4-Dinitrophenol	ug/L	100	0	86.4	86		18 - 137
2,4-Dinitrotoluene	ug/L	100	0	92	92		37 - 138
2,6-Dinitrotoluene	ug/L	100	0	94.2	94		56 - 128
2-Chloronaphthalene	ug/L	100	0	80.2	80		48 - 110
2-Chlorophenol	ug/L	100	0	75.2	75		42 - 111
2-Methyl-4,6-dinitrophenol	ug/L	100	0	92.5	93		49 - 119
2-Methylnaphthalene	ug/L	100	0	76.9	77		40 - 110
2-Nitroaniline	ug/L	100	0	93.4	93		48 - 107
2-Nitrophenol	ug/L	100	0	85	85		59 - 110
3,3'-Dichlorobenzidine	ug/L	100	0	77.4	77		51 - 154
3-Nitroaniline	ug/L	100	0	81.7	82		34 - 118
4-Chloro-3-methylphenol	ug/L	100	0	77.8	78		44 - 118
4-Chloroaniline	ug/L	100	0	78.5	79		30 - 114
4-Chlorophenyl-phenylether	ug/L	100	0	83.5	84		52 - 115
4-Nitroaniline	ug/L	101	0	90	89		38 - 114
4-Nitrophenol	ug/L	100	0	19.5	20		3 - 83
Acenaphthene	ug/L	100	0	83.7	84		52 - 108
Acenaphthylene	ug/L	100	0	81.5	82		55 - 104
Acetophenone	ug/L	100	0	78.2	78		60 - 124
Anthracene	ug/L	100	0	85.9	86		58 - 113
Atrazine (Aatrex)	ug/L	100	0	92	92		39 - 148
Benzaldehyde	ug/L	100	0	347	347	*	40 - 118
Benzo(a)anthracene	ug/L	100	0	83.1	83		56 - 113
Benzo(a)pyrene	ug/L	100	0	83.6	84		56 - 118
Benzo(b)fluoranthene	ug/L	100	0	85.5	86		55 - 116
Benzo(g,h,i)perylene	ug/L	100	0	85.3	85		44 - 132
Benzo(k)fluoranthene	ug/L	100	0	93.8	94		49 - 121
Biphenyl	ug/L	100	0	57.3	57		39 - 122
Bis(2-Chloroethoxy)methane	ug/L	100	0	84.6	85		56 - 112

RPD : 0 out of 67 outside limits

Spike Recovery: 2 out of 134 outside limits

3C
WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8270

Prep Batch: 287820 Analytical Batch.: 287858

Bis(2-Chloroethyl)ether	ug/L	100	0	70.2	70		37 - 117
Butylbenzylphthalate	ug/L	100	0	93.7	94		62 - 122
Caprolactam	ug/L	100	0	19	19		4 - 41
Carbazole	ug/L	100	0	82.8	83		47 - 107
Chrysene	ug/L	98	0	86.6	88		58 - 117
Di-n-butylphthalate	ug/L	100	0	89.4	89		62 - 122
Di-n-octylphthalate	ug/L	100	0	87.6	88		56 - 133
Dibenz(a,h)anthracene	ug/L	100	0	82.8	83		50 - 138
Dibenzofuran	ug/L	100	0	86.7	87		54 - 112
Diethylphthalate	ug/L	100	0	89.6	90		56 - 120
Dimethyl-phthalate	ug/L	100	0	90.5	91		59 - 116
Fluoranthene	ug/L	100	0	88.8	89		55 - 118
Fluorene	ug/L	100	0	86.1	86		54 - 111
Hexachlorobenzene	ug/L	100	0	78.3	78		61 - 112
Hexachlorobutadiene	ug/L	100	0	61.8	62		17 - 105
Hexachlorocyclopentadiene	ug/L	100	0	29	29		16 - 98
Hexachloroethane	ug/L	100	0	60.6	61		21 - 95
Indeno(1,2,3-cd)pyrene	ug/L	100	0	85.3	85		43 - 133
Isophorone	ug/L	100	0	83.6	84		53 - 117
N-Nitroso-di-n-propylamine	ug/L	100	0	76.2	76		47 - 118
N-Nitrosodimethylamine	ug/L	100	0	29.9	30		12 - 82
N-Nitrosodiphenylamine	ug/L	98	0	83.1	85		58 - 121
Naphthalene	ug/L	100	0	75.2	75		44 - 102
Nitrobenzene	ug/L	100	0	78.3	78		53 - 113
Pentachlorophenol	ug/L	100	0	83.1	83		25 - 158
Phenanthrene	ug/L	100	0	86.7	87		58 - 111
Phenol	ug/L	100	0	25.8	26		16 - 65
Pyrene	ug/L	100	0	90.5	91		54 - 117
bis(2-Chloroisopropyl)ether	ug/L	100	0	80.5	81		47 - 116
bis(2-ethylhexyl)phthalate	ug/L	100	0	87.8	88		56 - 132
m,p-Cresol	ug/L	100	0	52.1	52		24 - 104
o-Cresol	ug/L	100	0	58.8	59		31 - 110

RPD : 0 out of 67 outside limits

Spike Recovery: 2 out of 134 outside limits

3C
WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8270

Prep Batch: 287820 Analytical Batch.: 287858

Spike Dupe HSN : 224690

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,2,4-Trichlorobenzene	ug/L	100	67	67		6		30 - 107	0 - 31
1,4-Dichlorobenzene	ug/L	100	65.6	66		4		22 - 104	0 - 30
2,4,5-Trichlorophenol	ug/L	100	81.2	81		6		60 - 116	0 - 50
2,4,6-Trichlorophenol	ug/L	100	83.5	84		4		59 - 115	0 - 50
2,4-Dichlorophenol	ug/L	100	82	82		2		55 - 114	0 - 50
2,4-Dimethylphenol	ug/L	100	52.4	52		19		14 - 122	0 - 50
2,4-Dinitrophenol	ug/L	100	79.6	80		8		18 - 137	0 - 50
2,4-Dinitrotoluene	ug/L	100	92.1	92		.1		37 - 138	0 - 33
2,6-Dinitrotoluene	ug/L	100	93.7	94		.5		56 - 128	0 - 50
2-Chloronaphthalene	ug/L	100	75.7	76		6		48 - 110	0 - 50
2-Chlorophenol	ug/L	100	74	74		2		42 - 111	0 - 24
2-Methyl-4,6-dinitrophenol	ug/L	100	87.4	87		6		49 - 119	0 - 50
2-Methylnaphthalene	ug/L	100	74.8	75		3		40 - 110	0 - 50
2-Nitroaniline	ug/L	100	88	88		6		48 - 107	0 - 50
2-Nitrophenol	ug/L	100	82.3	82		3		59 - 110	0 - 50
3,3'-Dichlorobenzidine	ug/L	100	77.2	77		.3		51 - 154	0 - 50
3-Nitroaniline	ug/L	100	76.7	77		6		34 - 118	0 - 50
4-Chloro-3-methylphenol	ug/L	100	77.5	78		.4		44 - 118	0 - 26
4-Chloroaniline	ug/L	100	73.1	73		7		30 - 114	0 - 50
4-Chlorophenyl-phenylether	ug/L	100	81.1	81		3		52 - 115	0 - 50
4-Nitroaniline	ug/L	101	81	80		11		38 - 114	0 - 50
4-Nitrophenol	ug/L	100	23.5	24		19		3 - 83	0 - 31
Acenaphthene	ug/L	100	79.5	80		5		52 - 108	0 - 32
Acenaphthylene	ug/L	100	78.1	78		4		55 - 104	0 - 50
Acetophenone	ug/L	100	82	82		5		60 - 124	0 - 50
Anthracene	ug/L	100	83.3	83		3		58 - 113	0 - 50
Atrazine (Aatrex)	ug/L	100	88.8	89		4		39 - 148	0 - 50
Benzaldehyde	ug/L	100	326	326	*	6		40 - 118	0 - 50
Benzo(a)anthracene	ug/L	100	80.6	81		3		56 - 113	0 - 50
Benzo(a)pyrene	ug/L	100	79	79		6		56 - 118	0 - 50
Benzo(b)fluoranthene	ug/L	100	87.2	87		2		55 - 116	0 - 50
Benzo(g,h,i)perylene	ug/L	100	89.9	90		5		44 - 132	0 - 50
Benzo(k)fluoranthene	ug/L	100	90.5	91		4		49 - 121	0 - 50
Biphenyl	ug/L	100	57.3	57		0		39 - 122	0 - 50
Bis(2-Chloroethoxy)methane	ug/L	100	81.6	82		4		56 - 112	0 - 50

RPD : 0 out of 67 outside limits

Spike Recovery: 2 out of 134 outside limits

3C
WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8270

Prep Batch: 287820 Analytical Batch.: 287858

Bis(2-Chloroethyl)ether	ug/L	100	69.8	70		.6		37 - 117	0 - 50
Butylbenzylphthalate	ug/L	100	95.2	95		2		62 - 122	0 - 50
Caprolactam	ug/L	100	19.9	20		5		4 - 41	0 - 50
Carbazole	ug/L	100	80.2	80		3		47 - 107	0 - 50
Chrysene	ug/L	98	91.5	93		6		58 - 117	0 - 50
Di-n-butylphthalate	ug/L	100	86.7	87		3		62 - 122	0 - 50
Di-n-octylphthalate	ug/L	100	87.7	88		.1		56 - 133	0 - 50
Dibenz(a,h)anthracene	ug/L	100	88.1	88		6		50 - 138	0 - 50
Dibenzofuran	ug/L	100	83.9	84		3		54 - 112	0 - 50
Diethylphthalate	ug/L	100	86.2	86		4		56 - 120	0 - 50
Dimethyl-phthalate	ug/L	100	88.2	88		3		59 - 116	0 - 50
Fluoranthene	ug/L	100	87	87		2		55 - 118	0 - 50
Fluorene	ug/L	100	82	82		5		54 - 111	0 - 50
Hexachlorobenzene	ug/L	100	81.6	82		4		61 - 112	0 - 50
Hexachlorobutadiene	ug/L	100	58.8	59		5		17 - 105	0 - 50
Hexachlorocyclopentadiene	ug/L	100	23.4	23		21		16 - 98	0 - 50
Hexachloroethane	ug/L	100	59.4	59		2		21 - 95	0 - 50
Indeno(1,2,3-cd)pyrene	ug/L	100	89.7	90		5		43 - 133	0 - 50
Isophorone	ug/L	100	81.5	82		3		53 - 117	0 - 50
N-Nitroso-di-n-propylamine	ug/L	100	79.8	80		5		47 - 118	0 - 32
N-Nitrosodimethylamine	ug/L	100	31.7	32		6		12 - 82	0 - 50
N-Nitrosodiphenylamine	ug/L	98	86.8	89		4		58 - 121	0 - 50
Naphthalene	ug/L	100	72.4	72		4		44 - 102	0 - 50
Nitrobenzene	ug/L	100	74.2	74		5		53 - 113	0 - 50
Pentachlorophenol	ug/L	100	80.8	81		3		25 - 158	0 - 32
Phenanthrene	ug/L	100	85.1	85		2		58 - 111	0 - 50
Phenol	ug/L	100	30.3	30		16		16 - 65	0 - 25
Pyrene	ug/L	100	92.3	92		2		54 - 117	0 - 30
bis(2-Chloroisopropyl)ether	ug/L	100	82.6	83		3		47 - 116	0 - 50
bis(2-ethylhexyl)phthalate	ug/L	100	87.3	87		.6		56 - 132	0 - 50
m,p-Cresol	ug/L	100	56.8	57		9		24 - 104	0 - 50
o-Cresol	ug/L	100	63.5	64		8		31 - 110	0 - 50

RPD : 0 out of 67 outside limits

Spike Recovery: 2 out of 134 outside limits

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC4W050217 (TCLP)

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Analytical Method: SW-846 8270

Prep Batch: 287820 Analytical Batch.: 287858

Spike HSN : 224691

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1,4-Dichlorobenzene	ug/L	500	0	370	74		40 - 114
2,4,5-Trichlorophenol	ug/L	500	0	440	88		58 - 111
2,4,6-Trichlorophenol	ug/L	500	0	451	90		60 - 110
2,4-Dinitrotoluene	ug/L	500	0	444	89		44 - 121
Hexachlorobenzene	ug/L	500	0	455	91		50 - 121
Hexachlorobutadiene	ug/L	500	0	353	71		22 - 134
Hexachloroethane	ug/L	500	0	352	70		43 - 111
Nitrobenzene	ug/L	500	0	414	83		53 - 112
Pentachlorophenol	ug/L	500	0	453	91		23 - 142
m,p-Cresol	ug/L	500	0	304	61		50 - 110
o-Cresol	ug/L	500	0	355	71		50 - 108

Spike Dupe HSN : 224692

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,4-Dichlorobenzene	ug/L	500	347	69		6		40 - 114	0 - 28
2,4,5-Trichlorophenol	ug/L	500	425	85		3		58 - 111	0 - 40
2,4,6-Trichlorophenol	ug/L	500	429	86		5		60 - 110	0 - 40
2,4-Dinitrotoluene	ug/L	500	453	91		2		44 - 121	0 - 38
Hexachlorobenzene	ug/L	500	423	85		7		50 - 121	0 - 40
Hexachlorobutadiene	ug/L	500	332	66		6		22 - 134	0 - 40
Hexachloroethane	ug/L	500	331	66		6		43 - 111	0 - 40
Nitrobenzene	ug/L	500	403	81		3		53 - 112	0 - 40
Pentachlorophenol	ug/L	500	417	83		8		23 - 142	0 - 41
m,p-Cresol	ug/L	500	332	66		9		50 - 110	0 - 40
o-Cresol	ug/L	500	356	71		.3		50 - 108	0 - 40

RPD : 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

3C
WATER SEMIVOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: 1311/8270C

Prep Batch: 287820 Analytical Batch.: 287858

Spike HSN : 224689

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	REC FLAG	QC. LIMITS
1,4-Dichlorobenzene	mg/L	.1	0	.068	68		22 - 104
2,4,5-Trichlorophenol	mg/L	.1	0	.087	87		60 - 116
2,4,6-Trichlorophenol	mg/L	.1	0	.087	87		59 - 115
2,4-Dinitrotoluene	mg/L	.1	0	.092	92		37 - 138
Hexachlorobenzene	mg/L	.1	0	.078	78		61 - 112
Hexachlorobutadiene	mg/L	.1	0	.062	62		17 - 105
Hexachloroethane	mg/L	.1	0	.061	61		21 - 130
Nitrobenzene	mg/L	.1	0	.078	78		53 - 113
Pentachlorophenol	mg/L	.1	0	.083	83		25 - 158
Pyridine	mg/L	.1	0	.017	17		2 - 130
m,p-Cresol	mg/L	.1	0	.052	52		24 - 104
o-Cresol	mg/L	.1	0	.059	59		31 - 110

Spike Dupe HSN : 224690

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,4-Dichlorobenzene	mg/L	.1	.066	66		3		22 - 104	0 - 30
2,4,5-Trichlorophenol	mg/L	.1	.081	81		7		60 - 116	0 - 50
2,4,6-Trichlorophenol	mg/L	.1	.084	84		4		59 - 115	0 - 50
2,4-Dinitrotoluene	mg/L	.1	.092	92		0		37 - 138	0 - 33
Hexachlorobenzene	mg/L	.1	.082	82		5		61 - 112	0 - 50
Hexachlorobutadiene	mg/L	.1	.059	59		5		17 - 105	0 - 50
Hexachloroethane	mg/L	.1	.059	59		3		21 - 130	0 - 50
Nitrobenzene	mg/L	.1	.074	74		5		53 - 113	0 - 50
Pentachlorophenol	mg/L	.1	.081	81		2		25 - 158	0 - 32
Pyridine	mg/L	.1	.023	23		30		2 - 130	0 - 50
m,p-Cresol	mg/L	.1	.057	57		9		24 - 104	0 - 50
o-Cresol	mg/L	.1	.064	64		8		31 - 110	0 - 50

RPD : 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

3D
SOIL SEMIVOLATILE MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC4W050217 (TCLP)

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Analytical Method: 1311/8270C

Prep Batch: 287820 Analytical Batch.: 287858

Spike HSN : 224691

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
1,4-Dichlorobenzene	mg/L	.5	0	.37	74		22 - 104
2,4,5-Trichlorophenol	mg/L	.5	0	.44	88		60 - 116
2,4,6-Trichlorophenol	mg/L	.5	0	.451	90		59 - 115
2,4-Dinitrotoluene	mg/L	.5	0	.444	89		37 - 138
Hexachlorobenzene	mg/L	.5	0	.455	91		61 - 112
Hexachlorobutadiene	mg/L	.5	0	.353	71		17 - 105
Hexachloroethane	mg/L	.5	0	.352	70		21 - 130
Nitrobenzene	mg/L	.5	0	.414	83		53 - 113
Pentachlorophenol	mg/L	.5	0	.453	91		25 - 158
Pyridine	mg/L	.5	0	.065	13		2 - 75
m,p-Cresol	mg/L	.5	0	.304	61		24 - 104
o-Cresol	mg/L	.5	0	.355	71		31 - 110

Spike Dupe HSN : 224692

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1,4-Dichlorobenzene	mg/L	.5	.347	69		6		22 - 104	0 - 30
2,4,5-Trichlorophenol	mg/L	.5	.425	85		3		60 - 116	0 - 50
2,4,6-Trichlorophenol	mg/L	.5	.429	86		5		59 - 115	0 - 50
2,4-Dinitrotoluene	mg/L	.5	.453	91		2		37 - 138	0 - 33
Hexachlorobenzene	mg/L	.5	.423	85		7		61 - 112	0 - 50
Hexachlorobutadiene	mg/L	.5	.332	66		6		17 - 105	0 - 50
Hexachloroethane	mg/L	.5	.331	66		6		21 - 130	0 - 50
Nitrobenzene	mg/L	.5	.403	81		3		53 - 113	0 - 50
Pentachlorophenol	mg/L	.5	.417	83		8		25 - 158	0 - 32
Pyridine	mg/L	.5	.04	8		48		2 - 75	0 - 50
m,p-Cresol	mg/L	.5	.332	66		9		24 - 104	0 - 50
o-Cresol	mg/L	.5	.356	71		.3		31 - 110	0 - 50

RPD : 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab File ID: 2050223/B6226

GC Column: RTX-5MS-30 ID: .25 (mm)

Instrument ID: MSSV3 Matrix: Water

Level: LOW

Sample ID: MB224688

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224688 Date Extracted: 02/22/05

Date Analyzed: 02/23/05 Time: 1047

Method: SW-846 8270

Prep Batch: 287820 Analytical Batch: 287858

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS224689	224689	2050223/B6227	02/23/05	1102
2.	LCSD224690	224690	2050223/B6228	02/23/05	1117
3.	05283WC1W050217 (TCLP)	20502180602	2050223/B6230	02/23/05	1147
4.	05283WC4W050217 (TCLP)	20502180604	2050223/B6231	02/23/05	1202
5.	05283WC4W050217 (...MS	224691	2050223/B6232	02/23/05	1216
6.	05283WC4W050217 ...MSD	224692	2050223/B6233	02/23/05	1231
7.	05283WC2W050217	20502180605	2050223/B6239	02/23/05	1401

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050131/B5754

DFTPP Injection Date: 01/31/05 Time: 1151

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 287005

Instrument ID: MSSV3

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	40.35 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	66.85 ( ) ( )
70	Less than 2.0% of mass 69	0 (0) (1)
127	40.0-60.0% of mass 198	46.91 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	6.83 ( ) ( )
275	10.0-30.0% of mass 198	28.04 ( ) ( )
365	Greater than 1.0% of mass 198	3.7 ( ) ( )
441	Present, but less than mass 443	12.49 ( ) ( )
442	40.0-100.0% of mass 198	83.64 ( ) ( )
443	17.0-23.0% of mass 442	16.29 (19.48) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

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.	STD050	1202	2050131/B5755	01/31/05	1321
2.	STD010	1201	2050131/B5756	01/31/05	1335
3.	STD080	1203	2050131/B5757	01/31/05	1350
4.	STD120	1204	2050131/B5758	01/31/05	1405
5.	STD160	1205	2050131/B5759	01/31/05	1420
6.	STD200	1206	2050131/B5760	01/31/05	1435
7.	STD001	1207	2050131/B5761	01/31/05	1450
8.	STD0.2	1208	2050131/B5762	01/31/05	1506
9.	APQ040	1202	2050131/B5766	01/31/05	1636
10.	APQ020	1201	2050131/B5767	01/31/05	1651
11.	APQ060	1203	2050131/B5768	01/31/05	1706

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Lab File ID: 2050131/B5754 DFTPP Injection Date: 01/31/05 Time: 1151

GC Column: RTX-5MS-30 ID: .25 (mm) Analytical Batch: 287005

Instrument ID: MSSV3

12.	APQ080	1204	2050131/B5769	01/31/05	1721
13.	APQ100	1205	2050131/B5770	01/31/05	1736

5B

SEMIVOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECI

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab File ID: 2050223/B6219

DFTPP Injection Date: 02/23/05 Time: 0905

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 287858

Instrument ID: MSSV3

m / e	*ION ABUNDANCE CRITERIA*	*% Relative Abundance*
51	30.0-60.0% of mass 198	45.82 ( ) ( )
68	Less thab 2% of mass 69	0 (0) (1)
69	Mass 69 relative abundance	74.97 ( ) ( )
70	Less than 2.0% of mass 69	.18 (.25) (1)
127	40.0-60.0% of mass 198	46.25 ( ) ( )
197	Less than 1.0% of mass 198	0 ( ) ( )
198	Base Peak, 100% relative abundance	100 ( ) ( )
199	5.0-9.0% of mass 198	7.41 ( ) ( )
275	10.0-30.0% of mass 198	27.63 ( ) ( )
365	Greater than 1.0% of mass 198	4.81 ( ) ( )
441	Present, but less than mass 443	11.83 ( ) ( )
442	40.0-100.0% of mass 198	77.6 ( ) ( )
443	17.0-23.0% of mass 442	14.12 (18.2) (2)

(1)-Value is % mass 69 (2)-Value is % mass 442

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.	STD050	1400	2050223/B6220	02/23/05	0917
2.	APP9050	1400	2050223/B6221	02/23/05	0932
3.	MB224688	224688	2050223/B6226	02/23/05	1047
4.	LCS224689	224689	2050223/B6227	02/23/05	1102
5.	LCSD224690	224690	2050223/B6228	02/23/05	1117
6.	05283WC1W050217 (TCLP)	20502180602	2050223/B6230	02/23/05	1147
7.	05283WC4W050217 (TCLP)	20502180604	2050223/B6231	02/23/05	1202
8.	05283WC4W050217 (...MS	224691	2050223/B6232	02/23/05	1216
9.	05283WC4W050217 ...MSD	224692	2050223/B6233	02/23/05	1231
10.	05283WC2W050217	20502180605	2050223/B6239	02/23/05	1401

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/MSSV3.i/2050131.s.b/b5767.d
Level 2: /var/chem/MSSV3.i/2050131.s.b/b5766.d
Level 3: /var/chem/MSSV3.i/2050131.s.b/b5768.d
Level 4: /var/chem/MSSV3.i/2050131.s.b/b5769.d
Level 5: /var/chem/MSSV3.i/2050131.s.b/b5770.d
Level 6: /var/chem/MSSV3.i/2050120p.s.b/b5502.d
Level 7: /var/chem/MSSV3.i/2050131.s.b/b5761.d
Level 8: /var/chem/MSSV3.i/2050131.s.b/b5762.d

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
1 n-Nitrosodimethylamine	0.28786	0.23606	0.21894	0.21640	0.20713	+++++	0.23328	13.826
	+++++	+++++						
2 Pyridine	0.65028	0.81065	0.74275	0.67293	0.71139	+++++	0.71760	8.774
	+++++	+++++						
5 Aniline	4.20369	4.13159	4.13364	3.99139	+++++	+++++	4.02544	5.335
	3.66687	+++++						
6 Phenol +	3.71241	3.31720	3.19002	3.09182	2.97823	2.85694	3.19110	9.448
	+++++	+++++						
7 bis(-2-Chloroethyl)Ether	2.32221	1.99229	2.00473	1.96323	1.92555	1.82542	2.02583	8.018
	2.14737	+++++						
8 2-Chlorophenol	1.42142	1.19913	1.20321	1.15565	1.11317	1.09512	1.19795	9.843
	+++++	+++++						
9 1,3-Dichlorobenzene	1.73542	1.47810	1.57273	1.51704	1.57323	1.52403	1.56676	5.757
	+++++	+++++						

GCAL, Inc.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
11 1,4-Dichlorobenzene +	1.64925	1.50438	1.55414	1.57468	1.60562	1.54165		
	+++++	+++++					1.57162	3.234
12 Benzyl alcohol	1.49531	1.37746	1.29726	1.30024	1.22775	1.18177		
	+++++	+++++					1.31330	8.499
13 1,2-Dichlorobenzene	1.58269	1.44924	1.47938	1.49438	1.48618	1.44100		
	+++++	+++++					1.48881	3.397
14 Bis(2-chloroisopropyl)ether	2.19068	1.95097	1.95865	1.96562	1.94632	1.85562		
	1.94799	+++++					1.97369	5.202
15 2-Methylphenol	2.17081	1.93165	1.79870	1.77159	1.69851	1.59396		
	+++++	+++++					1.82753	11.048
16 N-Nitroso-di-n-propylamine++	2.44319	2.29761	2.15286	2.10791	2.03407	1.92225		
	2.52260	+++++					2.21150	9.893
17 3- & 4-Methylphenol	2.13759	1.95684	1.87751	1.83952	1.78403	1.70644		
	+++++	+++++					1.88366	7.986
18 Hexachloroethane	1.03925	0.93192	0.94787	0.94814	0.95087	0.89112		
	0.98080	+++++					0.95571	4.774
20 Nitrobenzene	1.08052	1.00437	1.00703	0.98339	0.97935	0.95267		
	1.14128	+++++					1.02123	6.483
21 Isophorone	1.71524	1.68688	1.61027	1.57689	1.57157	1.51881		
	+++++	+++++					1.61328	4.623

GCAL, Inc.

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Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
22 2-Nitrophenol +	0.20199	0.18800	0.19844	0.18892	0.19678	0.19024		
	+++++	+++++					0.19406	2.980
23 2,4-Dimethyphenol	0.79070	0.74113	0.71281	0.69611	0.69529	0.67106		
	+++++	+++++					0.71785	5.925
24 bis(-2-Chloroethoxy)methane	0.91710	0.93748	0.90936	0.90379	0.91030	0.87702		
	+++++	+++++					0.90917	2.160
25 Benzoic Acid	+++++	0.21046	0.19535	0.22591	0.21311	0.20798		
	+++++	+++++					0.21056	5.203
26 2,4-Dichlorophenol +	0.34447	0.35770	0.33710	0.32832	0.33892	0.32715		
	+++++	+++++					0.33894	3.332
27 1,2,4-Trichlorobenzene	0.47619	0.45325	0.46012	0.46672	0.48091	0.47485		
	+++++	+++++					0.46867	2.257
29 Naphthalene	1.18192	1.13568	1.15142	1.16204	1.21125	1.19941		
	1.11394	+++++					1.16510	2.987
30 4-Chloroaniline	0.49665	0.50021	0.49341	0.48039	0.46941	0.44848		
	+++++	+++++					0.48143	4.111
31 Hexachlorobutadiene +	0.42421	0.38545	0.39056	0.38913	0.39598	0.39608		
	0.34906	+++++					0.39007	5.675
32 4-Chloro-3-Methylphenol +	0.58045	0.58038	0.52316	0.51597	0.50245	0.49320		
	0.63811	+++++					0.54767	9.703

GCAL, Inc.

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Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
33 2-Methylnaphthalene	0.82295	0.79551	0.77653	0.79009	0.80408	0.78007			
	0.84478	0.72220					0.79203	4.567	
34 Hexachlorocyclopentadiene ++	+++++	0.38425	0.46043	0.52965	0.58312	0.56298			
	+++++	+++++					0.50408	16.187	
35 2,4,6-Trichlorophenol +	0.42935	0.43641	0.42912	0.45281	0.44168	0.43454			
	0.41941	+++++					0.43476	2.437	
36 2,4,5-Trichlorphenol	0.45593	0.43945	0.46532	0.46933	0.45822	0.45844			
	0.49065	+++++					0.46248	3.368	
38 2-Chloronaphthalene	1.26822	1.18320	1.19681	1.28650	1.30609	1.27817			
	+++++	+++++					1.25317	4.043	
39 2-Nitroaniline	0.36163	0.36562	0.38555	0.35923	0.35527	0.37465			
	0.32138	0.07143					0.32435	32.023	<-
40 Dimethylphthalate	1.28861	1.21692	1.27293	1.22419	1.20345	1.26274			
	+++++	+++++					1.24481	2.770	
41 2,6-Dinitrotoluene	0.28255	0.28855	0.30257	0.28195	0.27409	0.29346			
	+++++	+++++					0.28720	3.476	
42 Acenaphthylene	1.90257	1.76674	1.85945	1.90592	1.84138	1.86767			
	1.78957	+++++					1.84762	2.873	
43 3-Nitroaniline	0.32406	0.27767	0.30895	0.28962	0.27889	0.29178			
	+++++	+++++					0.29516	6.133	

GCAL, Inc.

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Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
45 Acenaphthene +	1.12676	1.07059	1.12042	1.15068	1.13602	1.14897		
	1.22180	+++++					1.13932	3.970
46 2,4-Dinitrophenol ++	+++++	0.16444	0.19104	0.17594	0.18125	0.19386		
	+++++	+++++					0.18131	6.560
47 Dibenzofuran	1.61407	1.50895	1.61726	1.58506	1.57940	1.58946		
	+++++	+++++					1.58237	2.477
48 2,4-Dinitrotoluene	0.38827	0.34937	0.39555	0.34681	0.35413	0.38233		
	+++++	+++++					0.36941	5.871
49 4-Nitrophenol ++	0.24912	0.26732	0.28985	0.27436	0.25950	0.28709		
	+++++	+++++					0.27121	5.830
50 Diethylphthalate	1.12275	1.07413	1.16107	1.06376	1.03810	1.13451		
	+++++	+++++					1.09905	4.315
51 Fluorene	1.32642	1.30131	1.35968	1.34304	1.34555	1.43270		
	1.32678	+++++					1.34793	3.094
52 4-Chlorophenyl-phenylether	0.77011	0.76010	0.76664	0.76699	0.75563	0.79821		
	+++++	+++++					0.76961	1.945
53 4-Nitroaniline	0.29390	0.26491	0.29770	0.26723	0.26745	0.28015		
	+++++	+++++					0.27856	5.183
54 4,6-Dinitro-o-cresol	+++++	0.16966	0.17305	0.17732	0.17651	0.18622		
	+++++	+++++					0.17655	3.512

GCAL, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
55 N-nitrosodiphenylamine (1)+	0.52990	0.53313	0.51843	0.55145	0.53620	0.57285		
	0.68548	+++++					0.56106	10.264
56 Azobenzene	2.09783	2.03219	1.88831	2.03326	1.93645	1.94301		
	+++++	+++++					1.98851	3.939
58 4-Bromophenyl-phenylether	0.27754	0.27844	0.25546	0.27091	0.27036	0.27484		
	+++++	+++++					0.27126	3.104
59 Hexachlorobenzene	0.35369	0.33245	0.32495	0.33474	0.33059	0.33549		
	0.39340	+++++					0.34361	6.895
60 Pentachlorophenol +	+++++	0.17629	0.17649	0.19008	0.18878	0.19278		
	+++++	+++++					0.18488	4.265
62 Phenanthrene	1.23568	1.16788	1.16598	1.18184	1.17606	1.19560		
	1.26138	+++++					1.19777	3.071
63 Anthracene	1.24728	1.18011	1.17549	1.19559	1.18243	1.20297		
	1.21109	+++++					1.19928	2.067
64 Carbazole	1.18765	1.10917	1.11908	1.14346	1.15735	1.17490		
	1.06379	+++++					1.13649	3.752
65 Di-n-butylphthalate	1.16117	1.06135	1.11410	1.12274	1.15061	1.12439		
	+++++	+++++					1.12240	3.112
M 66 Total Methylphenol	4.30840	3.88849	3.67620	3.61111	3.48254	3.30040		
	+++++	+++++					3.71119	9.491

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
67 Fluoranthene +	1.42590	1.35220	1.40107	1.45236	1.44979	1.45996			
	1.47299	+++++					1.43061	2.930	
68 Benzidine	+++++	0.04754	0.11449	0.11514	0.11691	0.10097			
	+++++	+++++					0.09901	29.762	<-
69 Pyrene	1.48040	1.19824	1.15249	1.18211	1.16543	1.13139			
	1.34817	+++++					1.23689	10.413	
71 Butylbenzylphthalate	0.45424	0.42990	0.40824	0.42745	0.42241	0.41157			
	+++++	+++++					0.42564	3.861	
72 Benzo(a)anthracene	1.34742	1.25866	1.27421	1.31961	1.29340	1.29130			
	1.36895	1.95524					1.38860	16.700	
73 3,3'-Dichlorobenzidine	0.46686	0.39720	0.41605	0.41599	0.41778	0.40330			
	+++++	+++++					0.41953	5.868	
75 Chrysene	1.28670	1.20427	1.21519	1.21723	1.24560	1.23997			
	1.38564	+++++					1.25637	5.030	
76 bis(2-Ethylhexyl)phthalate	0.57055	0.53914	0.51718	0.53738	0.54012	0.52516			
	0.62061	+++++					0.55002	6.418	
77 Di-n-octylphthalate +	0.91586	0.90904	0.93523	0.96569	0.96835	0.95746			
	+++++	+++++					0.94194	2.732	
78 Benzo(b)fluoranthene	1.21003	1.22535	1.20399	1.25088	1.27262	1.40328			
	1.23208	1.26388					1.25776	5.061	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
79 Benzo(k)fluoranthene	1.37087	1.19061	1.30183	1.33967	1.35437	1.37853		
	1.14042	1.52490					1.32515	8.960
80 Benzo(a)pyrene +	1.20428	1.18535	1.22263	1.24611	1.28591	1.32840		
	1.14347	1.64396					1.28251	12.243
82 Indeno(1,2,3-cd)pyrene	1.42325	1.41616	1.49014	1.61054	1.71433	1.84580		
	1.26680	1.74013					1.56339	12.577
83 Dibenzo(a,h)anthracene	1.07387	1.15206	1.23460	1.33324	1.47899	1.57146		
	+++++	1.14940					1.28480	14.394
84 Benzo(g,h,i)perylene	1.29667	1.18221	1.22666	1.28983	1.40607	1.48336		
	1.25187	+++++					1.30524	8.057
85 2-Picoline	0.92384	0.76361	0.67237	0.75062	0.73254	0.78576		
	+++++	+++++					0.77146	10.884
86 N-Nitrosomethylethylamine	0.36960	0.29445	0.31905	0.34838	0.26116	0.35926		
	+++++	+++++					0.32532	12.861
87 Methyl methanesulfonate	0.62638	0.52014	0.47322	0.52747	0.50763	0.49734		
	+++++	+++++					0.52536	10.091
88 N-Nitrosodiethylamine	0.92828	0.81447	0.73343	0.81088	0.82489	0.79299		
	+++++	+++++					0.81749	7.746
89 Ethyl methanesulfonate	2.37097	1.98350	1.87527	2.05275	2.08531	1.88494		
	+++++	+++++					2.04212	8.925

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
90 Pentachloroethane	0.76366	0.62456	0.55905	0.62045	0.58678	0.62209		
	+++++	+++++					0.62943	11.222
91 Acetophenone	3.28342	2.95946	2.81388	2.81276	2.71891	2.58611		
	+++++	+++++					2.86242	8.391
92 O-Toluidine	3.42935	2.99394	2.75470	2.91712	2.79455	2.24996		
	+++++	+++++					2.85660	13.402
93 N-Nitrosomorpholine	1.56304	1.27668	1.20999	1.32773	1.37833	1.18213		
	+++++	+++++					1.32298	10.444
94 N-Nitrosopiperidine	0.41866	0.36599	0.33367	0.37055	0.37065	0.36461		
	+++++	+++++					0.37069	7.368
95 0,0,0-Triethylphosphorothioat	0.28101	0.23805	0.22988	0.24985	0.25385	0.25241		
	+++++	+++++					0.25084	6.963
96 Alpha,Alpha-Dimethylphenethyl	0.72103	1.13525	0.69847	1.00867	0.68918	0.66810		
	+++++	+++++					0.82012	24.370
97 Hexachloropropene	0.45110	0.41442	0.39111	0.41327	0.40436	0.42884		
	+++++	+++++					0.41718	4.974
98 2,6-Dichlorophenol	0.38329	0.34070	0.31575	0.34863	0.34597	0.33360		
	+++++	+++++					0.34466	6.467
99 N-Nitrosodi-n-butylamine	0.65333	0.54926	0.54333	0.59420	0.57209	0.56129		
	+++++	+++++					0.57892	7.027

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
100 p-Phenylenediamine	0.32275	0.50427	0.46422	0.40497	0.37758	0.29941	0.39553	20.064	
	+++++	+++++							
101 Isosafrole	0.39797	0.34134	0.33500	0.37537	0.36484	0.36168	0.36270	6.328	
	+++++	+++++							
102 1,2,4,5-Tetrachlorobenzene	0.58103	0.48959	0.46231	0.51141	0.49346	0.50164	0.50657	7.901	
	+++++	+++++							
103 Safrole	0.65463	0.56018	0.51313	0.61487	0.58028	1.24763	0.69512	39.548	<-
	+++++	+++++							
104 1,4-Naphthoquinone	0.34050	0.40131	0.37419	0.36000	0.36271	0.32822	0.36116	7.110	
	+++++	+++++							
105 m-Dinitrobenzene	0.19654	0.24770	0.22860	0.23856	0.25613	0.23829	0.23431	8.847	
	+++++	+++++							
106 Pentachlorobenzene	0.79420	0.70486	0.69018	0.72133	0.70664	0.74161	0.72647	5.158	
	+++++	+++++							
107 2-Napthylamine	0.91914	1.04426	0.93800	0.84698	0.81424	0.69084	0.87558	13.796	
	+++++	+++++							
108 2,3,4,6-Tetrachlorophenol	0.35149	0.40605	0.40349	0.40792	0.42640	0.38858	0.39732	6.416	
	+++++	+++++							
109 1-Naphthylamine	1.06048	1.07026	0.95951	0.87034	0.79639	0.65788	0.90248	17.763	
	+++++	+++++							

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
110 Thionazin	0.33400	0.36196	0.35318	0.35083	0.36764	0.34006		
	+++++	+++++					0.35128	3.624
111 5-Nitro-o-toluidine	0.38759	0.40338	0.36730	0.35426	0.33515	0.30267		
	+++++	+++++					0.35839	10.151
112 Tetraethyldithiopyrophosphate	0.25952	0.28949	0.29877	0.28923	0.29617	0.27284		
	+++++	+++++					0.28434	5.326
113 Diallate	0.25272	0.52670	0.51786	0.53278	0.50752	0.52695		
	+++++	+++++					0.47742	23.131
114 Phorate	0.99303	0.89559	0.84285	0.90262	0.86430	0.84769		
	+++++	+++++					0.89101	6.243
115 sym-Trinitrobenzene	0.08224	0.08625	0.10302	0.11092	0.11535	0.12214		
	+++++	+++++					0.10332	15.560
116 Phenacetin	0.75763	0.60167	0.62419	0.65929	0.64041	0.68623		
	+++++	+++++					0.66157	8.355
117 Dimethoate	0.73690	0.55666	0.58328	0.57260	0.55586	0.57977		
	+++++	+++++					0.59751	11.588
118 Pentachloronitrobenzene	0.14851	0.14338	0.13182	0.13991	0.13410	0.13788		
	+++++	+++++					0.13927	4.390
119 4-Aminobiphenyl	0.87006	0.66072	0.58746	0.59985	0.54741	0.54585		
	+++++	+++++					0.63522	19.284

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
120 Pronamide	0.42307	0.33258	0.34313	0.37300	0.35527	0.36914			
	+++++	+++++					0.36603	8.700	
121 Dinoseb	0.16652	0.19104	0.21655	0.26009	0.25252	0.26530			
	+++++	+++++					0.22534	18.034	
122 Disulfoton	0.74938	0.65197	0.60587	0.69742	0.66757	0.65504			
	+++++	+++++					0.67121	7.210	
123 Methyl parathion	0.43592	0.32306	0.35183	0.37056	0.34805	0.36190			
	+++++	+++++					0.36522	10.454	
124 4-Nitroquinoline-1-oxide	0.04569	0.07220	0.08881	0.10528	0.11414	0.12784			
	+++++	+++++					0.09233	32.483	<-
125 Parathion	0.27258	0.20515	0.22469	0.24386	0.23300	0.25853			
	+++++	+++++					0.23963	10.079	
126 Metapyrilene	0.92614	0.75588	0.64940	0.76282	0.73725	0.85039			
	+++++	+++++					0.78031	12.302	
127 Isodrin	0.18282	0.14495	0.14059	0.16054	0.14543	0.15618			
	+++++	+++++					0.15509	10.013	
128 Aramite	0.05835	0.04402	0.04430	0.05021	0.04453	0.04027			
	+++++	+++++					0.04695	13.702	<-
129 p-(Dimethylamino)azobenzene	0.42429	0.35190	0.35159	0.37982	0.36494	0.35128			
	+++++	+++++					0.37063	7.711	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
130 Chlorobenzilate	0.39774	0.30841	0.32141	0.33939	0.32030	0.31711			
	++++++	++++++					0.33406	9.818	
131 Famphur	0.44682	0.29571	0.18269	0.10870	0.06886	0.05059			
	++++++	++++++					0.19223	79.874	<-
132 3,3'-Dimethyl benzidine	0.60048	0.63387	0.58223	0.54019	0.45659	0.41564			
	++++++	++++++					0.53817	15.910	
133 2-Acetylaminofluorene	0.53196	0.53133	0.55374	0.54933	0.53238	0.54971			
	++++++	++++++					0.54141	1.948	
134 7,12-Dimethylbenz(a)anthracen	0.65577	0.58464	0.62275	0.67075	0.67949	0.68374			
	++++++	++++++					0.64952	5.957	
135 Hexachlorophene	++++++	++++++	0.01057	0.02730	0.05228	0.07673			
	++++++	++++++					0.04172	69.410	<-
136 3-Methyl cholanthrene	0.64614	0.59876	0.60817	0.66323	0.66548	0.68449			
	++++++	++++++					0.64438	5.288	
137 Acrylamide	0.23334	0.27256	0.26988	0.25684	0.25591	++++++			
	++++++	++++++					0.25771	6.032	
138 N-Nitrosopyrrolidine	0.74611	0.74129	0.75141	0.68286	0.67048	++++++			
	++++++	++++++					0.71843	5.364	
139 Pthalic Acid & Anhydride	0.18656	0.15211	0.18409	0.18535	0.22690	++++++			
	++++++	++++++					0.18700	14.200	

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
140 1,4-Dinitrobenzene	0.41350	0.45086	0.44386	0.44723	0.48068	++++++			
	++++++	++++++					0.44723	5.339	
141 Kepone	0.02307	0.04358	0.06758	0.06431	0.09630	++++++			
	++++++	++++++					0.05897	46.610	<-
142 4,4Methylenebis2chloroanaline	0.23183	0.22277	0.22071	0.23781	0.25759	++++++			
	++++++	++++++					0.23414	6.330	
143 Tris2,3Dibromopropylphosphate	0.04942	0.06520	0.07992	0.07462	0.06707	++++++			
	++++++	++++++					0.06725	17.232	<-
144 Maleic Anhydride	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	
145 1-Methylnapthalene	0.74240	0.74268	0.72803	0.74022	0.73899	0.72605			
	0.76453	1.17053					0.79418	19.204	
M 146 Total Methylnapthalene	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-
147 N-methyldiethanolamine	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-
148 A-Terpineol	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-
149 3-Chlorophenol	++++++	++++++	++++++	++++++	++++++	++++++			
	++++++	++++++					++++++	++++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
150 4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
151 2,3-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
152 2,5-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
153 3,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
154 Dimethyl Benzyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
155 Benzaldehyde	0.53663	0.42507	0.61970	0.55399	0.45500	+++++			
	+++++	+++++					0.51808	15.134	
156 Caprolactam	0.16005	0.16966	0.16476	0.14729	0.13796	0.14414			
	+++++	+++++					0.15398	8.201	
157 Biphenyl	0.92326	0.96484	0.92662	0.95438	0.98124	0.96334			
	+++++	+++++					0.95228	2.406	
158 Atrazine	0.23427	0.23434	0.23825	0.23289	0.23901	0.24029			
	+++++	+++++					0.23651	1.288	
159 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD	
	1.000 Level 7	0.20000 Level 8							
169 Benzenethiol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
170 Indene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
171 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
172 Methyl Chrysene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
173 Dibenz(a,h)acridine	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
174 2,4and/or2,6 Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
175 2,3and/or3,4 Diaminotoluene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
176 Tolylene 2,6-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
177 Tolylene 2,4-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-
178 Tolylene 2,5-diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++					+++++	+++++	<-

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 20-JAN-2005 17:16
End Cal Date : 01-FEB-2005 13:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/MSSV3.i/2050223.s.b/8270CE_03.m
Cal Date : 23-Feb-2005 09:56 jar3
Curve Type : Average

Compound	10.000 Level 1	50.000 Level 2	80.000 Level 3	120.000 Level 4	160.000 Level 5	200.000 Level 6	___ RRF	% RSD
	1.000 Level 7	0.20000 Level 8						
M 179 Tolylene diisocyanate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++ <-
$ 3 2-Fluorophenol	1.19545	1.01782	0.97170	0.96520	0.95110	0.90381		
	+++++	+++++					1.00085	10.206
$ 4 Phenol-d5	3.25088	2.78667	2.70765	2.62881	2.56780	2.44845		
	+++++	+++++					2.73171	10.235
$ 19 Nitrobenzene-d5	1.06222	0.94415	0.96230	0.93515	0.95409	0.92636		
	+++++	+++++					0.96405	5.164
$ 37 2-Fluorobiphenyl	1.43286	1.34659	1.43278	1.49738	1.52070	1.50109		
	+++++	+++++					1.45523	4.450
$ 57 2,4,6-Tribromophenol	0.26186	0.23567	0.24812	0.23925	0.22671	0.25042		
	+++++	+++++					0.24367	5.085
$ 70 Terphenyl-d14	0.99301	0.82929	0.79237	0.81626	0.81740	0.80680		
	+++++	+++++					0.84252	8.872

Data file : /var/chem/MSSV3.i/2050131.s.b/b5764.d
Report Date: 01/31/2005 16:16

GCAL, Inc.

RECOVERY REPORT

Client Name: 4-16-12
Client SDG: 2050131.s
Sample Matrix: LIQUID
Fraction: SV
Lab Smp Id: ICV050
Client Smp ID: ICV050
Level: LOW
Operator: jar3
Data Type: MS DATA
Sample Type: LCS
SpikeList File: ICV70.spk
Quant Type: ISTD
Sublist File: ICV.sub
Method File: /var/chem/MSSV3.i/2050131.s.b/8270CE_03.m
Misc Info: ICV050*MSSV~2507~

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 n-Nitrosodimethylamine	50.0	48.6	97.16	70-130
2 Pyridine	50.0	44.7	89.44	70-130
5 Aniline	50.0	38.9	77.86	70-130
6 Phenol +	50.0	53.6	107.11	70-130
7 bis(-2-Chloroethyl)Ether	50.0	50.6	101.14	70-130
8 2-Chlorophenol	50.0	52.2	104.40	70-130
9 1,3-Dichlorobenzene	50.0	49.3	98.55	70-130
11 1,4-Dichlorobenzene +	50.0	49.4	98.71	70-130
12 Benzyl alcohol	50.0	51.9	103.85	70-130
13 1,2-Dichlorobenzene	50.0	50.7	101.44	70-130
14 Bis(2-chloroisopropyl)ether	50.0	53.4	106.81	70-130
15 2-Methylphenol	50.0	53.6	107.13	70-130
16 N-Nitroso-di-n-propylamine++	50.0	53.2	106.33	70-130
17 3- & 4-Methylphenol	50.0	53.8	107.53	70-130
18 Hexachloroethane	50.0	48.9	97.85	70-130
20 Nitrobenzene	50.0	48.8	97.55	70-130
21 Isophorone	50.0	50.5	101.07	70-130
22 2-Nitrophenol +	50.0	51.0	101.94	70-130
23 2,4-Dimethyphenol	50.0	52.3	104.53	70-130
24 bis(-2-Chloroethoxy)methane	50.0	51.7	103.33	70-130
25 Benzoic Acid	50.0	62.1	124.10	70-130
26 2,4-Dichlorophenol +	50.0	52.9	105.71	70-130
27 1,2,4-Trichlorobenzene	50.0	49.8	99.63	70-130
29 Naphthalene	50.0	48.7	97.35	70-130
30 4-Chloroaniline	50.0	48.1	96.25	70-130
31 Hexachlorobutadiene +	50.0	48.5	97.07	70-130
32 4-Chloro-3-Methylphenol +	50.0	51.7	103.40	70-130
33 2-Methylnaphthalene	50.0	51.4	102.87	70-130
34 Hexachlorocyclopentadiene ++	50.0	38.9	77.74	70-130
35 2,4,6-Trichlorophenol +	50.0	50.1	100.20	70-130

Data file : /var/chem/MSSV3.i/2050131.s.b/b5764.d
Report Date: 01/31/2005 16:16

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
36	2,4,5-Trichlorphenol	50.0	50.7	101.41	70-130
38	2-Chloronaphthalene	50.0	48.9	97.84	70-130
39	2-Nitroaniline	50.0	56.8	113.69	70-130
40	Dimethylphthalate	50.0	49.6	99.28	70-130
41	2,6-Dinitrotoluene	50.0	49.4	98.81	70-130
42	Acenaphthylene	50.0	49.4	98.71	70-130
43	3-Nitroaniline	50.0	49.4	98.83	70-130
45	Acenaphthene +	50.0	48.4	96.86	70-130
46	2,4-Dinitrophenol ++	50.0	44.4	88.73	70-130
47	Dibenzofuran	50.0	49.1	98.29	70-130
48	2,4-Dinitrotoluene	50.0	47.5	95.10	70-130
49	4-Nitrophenol ++	50.0	48.8	97.59	70-130
50	Diethylphthalate	50.0	50.3	100.53	70-130
51	Fluorene	50.0	48.7	97.30	70-130
52	4-Chlorophenyl-phenylether	50.0	49.7	99.48	70-130
53	4-Nitroaniline	50.0	48.0	95.92	70-130
54	4,6-Dinitro-o-cresol	50.0	49.1	98.25	70-130
55	N-nitrosodiphenylamine (1)+	50.0	52.5	104.90	70-130
56	Azobenzene	50.0	52.2	104.36	70-130
58	4-Bromophenyl-phenylether	50.0	50.8	101.53	70-130
59	Hexachlorobenzene	50.0	49.9	99.73	70-130
60	Pentachlorophenol +	50.0	50.5	101.02	70-130
62	Phenanthrene	50.0	50.0	100.04	70-130
63	Anthracene	50.0	49.0	98.00	70-130
65	Di-n-butylphthalate	50.0	50.2	100.42	70-130
67	Fluoranthene +	50.0	50.9	101.76	70-130
69	Pyrene	50.0	48.2	96.44	70-130
71	Butylbenzylphthalate	50.0	50.4	100.85	70-130
72	Benzo(a)anthracene	50.0	46.9	93.88	70-130
73	3,3'-Dichlorobenzidine	50.0	55.4	110.72	70-130
75	Chrysene	50.0	48.9	97.74	70-130
76	bis(2-Ethylhexyl)phthalate	50.0	51.5	102.91	70-130
77	Di-n-octylphthalate +	50.0	52.4	104.78	70-130
78	Benzo(b)fluoranthene	50.0	49.8	99.51	70-130
79	Benzo(k)fluoranthene	50.0	47.5	95.06	70-130
80	Benzo(a)pyrene +	50.0	45.1	90.16	70-130
82	Indeno(1,2,3-cd)pyrene	50.0	49.3	98.58	70-130
83	Dibenzo(a,h)anthracene	50.0	48.9	97.86	70-130
84	Benzo(g,h,i)perylene	50.0	49.0	98.03	70-130

Data file : /var/chem/MSSV3.i/2050131.s.b/b5764.d
Report Date: 01/31/2005 16:16

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 3 2-Fluorophenol	50.0	50.8	101.57	80-120
$ 4 Phenol-d5	50.0	53.0	106.09	80-120
$ 19 Nitrobenzene-d5	50.0	50.2	100.33	80-120
$ 37 2-Fluorobiphenyl	50.0	49.3	98.51	80-120
$ 57 2,4,6-Tribromophenol	50.0	49.7	99.32	80-120
$ 70 Terphenyl-d14	50.0	49.9	99.79	80-120

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSSV3

Calibration Date: 02/23/05 Time: 0917

Lab File ID: 2050223/B6220

Init. Calib. Date 1: 01/20/05 Time 1: 1931

Heated Purge: (Y/N) N

Init. Calib. Date 2: 01/31/05 Time 2: 1736

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 287858

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
Acenaphthylene	1.848	1.538	.01	-16.7	50	A
Anthracene	1.199	1.132	.01	-5.57	50	A
Benzo(a)anthracene	1.389	1.215	.01	-12.5	50	A
Benzo(b)fluoranthene	1.258	1.173	.01	-6.76	50	A
Benzo(k)fluoranthene	1.325	1.425	.01	7.52	50	A
Benzo(g,h,i)perylene	1.305	1.192	.01	-8.65	50	A
Benzo(a)pyrene	1.283	1.140	.01	-11.1	20	A
Butylbenzylphthalate	0.426	0.433	.01	1.69	50	A
Bis(2-Chloroethoxy)methane	0.909	0.898	.01	-1.24	50	A
Bis(2-Chloroethyl)ether	2.026	1.858	.01	-8.29	50	A
bis(2-Chloroisopropyl)ether	1.974	1.950	.01	-1.22	50	A
bis(2-ethylhexyl)phthalate	0.550	0.504	.01	-8.31	50	A
4-Bromophenyl-phenylether	0.271	0.247	.01	-8.83	50	A
Carbazole	1.136	1.149	.01	1.1	50	A
4-Chlorophenyl-phenylether	0.770	0.696	.01	-9.62	50	A
Chrysene	1.256	1.195	.01	-4.9	50	A
Dibenz(a,h)anthracene	1.285	1.131	.01	-11.9	50	A
Dibenzofuran	1.582	1.516	.01	-4.18	50	A
1,2-Dichlorobenzene	1.489	1.435	.01	-3.6	50	A
1,3-Dichlorobenzene	1.567	1.514	.01	-3.4	50	A
3,3'-Dichlorobenzidine	0.420	0.425	.01	1.34	50	A
2,4-Dichlorophenol	0.339	0.341	.01	.53	20	A
Diethylphthalate	1.099	1.028	.01	-6.48	50	A
2,4-Dimethylphenol	0.718	0.685	.01	-4.6	50	A
Dimethyl-phthalate	1.245	1.197	.01	-3.84	50	A
Di-n-octylphthalate	0.942	0.850	.01	-9.75	20	A
2,6-Dinitrotoluene	0.287	0.294	.01	2.5	50	A
Fluoranthene	1.431	1.360	.01	-4.92	20	A
Fluorene	1.348	1.268	.01	-5.93	50	A
Hexachlorobenzene	0.344	0.304	.01	-11.6	50	A
Hexachlorobutadiene	0.390	0.337	.01	-13.7	20	A
Hexachloroethane	0.956	0.807	.01	-15.5	50	A
Isophorone	1.613	1.538	.01	-4.66	50	A
Indeno(1,2,3-cd)pyrene	1.563	1.432	.01	-8.41	50	A
2-Methylnaphthalene	0.792	0.764	.01	-3.58	50	A
o-Cresol	1.828	1.795	.01	-1.78	50	A
Naphthalene	1.165	1.117	.01	-4.16	50	A
Nitrobenzene	1.021	0.942	.01	-7.76	50	A

FORM V II VOA

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSSV3

Calibration Date: 02/23/05 Time: 0917

Lab File ID: 2050223/B6220

Init. Calib. Date 1: 01/20/05 Time 1: 1931

Heated Purge: (Y/N) N

Init. Calib. Date 2: 01/31/05 Time 2: 1736

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 287858

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	TYPE
2-Nitrophenol	0.194	0.198	.01	1.8	20	A
N-Nitrosodimethylamine	0.233	0.151	.01	-35.4	50	A
N-Nitrosodiphenylamine	0.561	0.543	.01	-3.27	20	A
Phenanthrene	1.198	1.147	.01	-4.22	50	A
2,4,5-Trichlorophenol	0.462	0.434	.01	-6.06	50	A
2,4,6-Trichlorophenol	0.435	0.419	.01	-3.61	20	A
Benzyl alcohol	1.313	1.235	.01	-5.94	50	A
Aniline	4.025	2.878	.01	-28.5	50	A
Pyridine	0.718	0.443	.01	-38.2	50	A
Caprolactam	0.154	0.177	.01	14.8	50	A
Acetophenone	2.862	2.663	.01	-6.98	50	A
3-Nitroaniline	0.295	0.304	.01	2.94	50	A
4-Nitroaniline	0.279	0.312	.01	11.9	50	A
Di-n-butylphthalate	1.122	1.026	.01	-8.61	50	A
1,2 Diphenylhydrazine	1.989	1.835	.01	-7.71	50	A
2-Nitroaniline	0.324	0.402	.01	24	50	A
2-Chloronaphthalene	1.253	1.197	.01	-4.5	50	A
4-Chloroaniline	0.481	0.467	.01	-2.94	50	A
Atrazine (Aatrex)	0.237	0.123	.01	-48.0	50	A
Benzaldehyde	0.518	1.334	.01	157.5	50	A
Biphenyl	0.952	0.657	.01	-30.9	50	A
Cresols	3.711	3.657	.01	-1.45	50	A
m,p-Cresol	1.884	1.862	.01	-1.13	50	A
1-Methylnaphthalene	0.794	0.712	.01	-10.3	50	A
Phenol	3.191	3.264	.01	2.27	20	A
2-Chlorophenol	1.198	1.269	.01	5.92	50	A
1,4-Dichlorobenzene	1.572	1.475	.01	-6.15	20	A
N-Nitroso-di-n-propylamine	2.212	1.973	.05	-10.7	50	A
1,2,4-Trichlorobenzene	0.469	0.434	.01	-7.37	50	A
4-Chloro-3-methylphenol	0.548	0.509	.01	-6.99	20	A
Acenaphthene	1.139	1.076	.01	-5.52	20	A
4-Nitrophenol	0.271	0.238	.05	-12.2	50	A
2,4-Dinitrotoluene	0.369	0.382	.01	3.42	50	A
Pyrene	1.237	1.286	.01	4.01	50	A
Nitrobenzene-d5	0.964	0.882	.01	-8.52	50	A
2-Fluorobiphenyl	1.455	1.344	.01	-7.67	50	A
Terphenyl-d14	0.843	0.840	.01	-.27	50	A
Phenol-d5	2.732	2.801	.01	2.54	50	A

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: MSSV3

Calibration Date: 02/23/05 Time: 0917

Lab File ID: 2050223/B6220

Init. Calib. Date 1: 01/20/05 Time 1: 1931

Heated Purge: (Y/N) N

Init. Calib. Date 2: 01/31/05 Time 2: 1736

GC Column: RTX-5MS-30 ID: .25 (mm)

Analytical Batch: 287858

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D	*TYPE*
2-Fluorophenol	1.001	0.634	.01	-36.6	50	A
2,4,6-Tribromophenol	0.244	0.221	.01	-9.33	50	A

FORM V II VOA

BASE NEUTRAL/ACID SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-22-05 13:00	BATCH NO:	287820
MATRIX:	WATER ☑ SOIL ☐ OTHER ☐	LEVEL:	LOW ☑ MEDIUM ☐

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	BN pH	Acid pH	COMMENTS	METHOD
1	QC ACCOUNT	MB for HBN 287820 [EXTO/7103]	224688	1000	1.0	7/2	<2		LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287820 [EXTO/7103]	224689	1000	1.0	7/2	<2		
3	QC ACCOUNT	LCSD for HBN 287820 [EXTO/7103	224690	1000	1.0	7/2	<2		SEPARATORY FUNNEL/3510 ✓
4	4380	05283WC2W050217	20502180605	1000	1.0	7/2	<2	*	
5	4380	05283WC1W050217 (TCLP)	20502180602	200	1.0	7/2	<2		SONICATOR/3550
6	4380	05283WC4W050217 (TCLP)	20502180604	200	1.0	7/2	<2		
7	QC ACCOUNT	05283WC4W050217 (... (224288MS)	224691	200	1.0	7/2	<2		SOXHLET/3540
8	QC ACCOUNT	05283WC4W050217 ... (224288MSD)	224692	200	1.0	7/2	<2		
9	0011	POND SILT(TCLP)	20502164301	200	1.0	7/2	<2		GPC CLEANUP/3640
10	1996	NORTH PLANT SLUDGE (TCLP)	20502172209	200	1.0	7/2	<2		
11	4995	STICKS FROM CROSS TIES	20502180301	200	1.0	7/2	<2	*	WASTE DILUTION/3580
12	0082	Carbon from Well #5 (TCLP)	20502211902	200	1.0	7/2	<2		
13									TCLP EXTRACTION FLUID 1
14									
15									TCLP EXTRACTION FLUID 2
16									
17									MECL2/Acetone No:
18									
19									ACETONE LOT NO:
20									
21									MeCL2 Lot No:
22									044236
23									Sodium Sulfate Lot No:
24									044031
25									
26									
27									
28									

SKB 02/23/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME * Heavy emulsion

SURROGATE ID	9-14-8	8270 SPIKE ID		625 SPIKE ID	9-14-9	TECHNICIAN	DATE
VOLUME	0.5mL	VOLUME		VOLUME	1.0mL	[illegible]	2-22-05
CONCENTRATION	100/accuglass	CONCENTRATION		CONCENTRATION	100ug/mL		
NaOH	4-5141	ACID	307-11-2			SUPERVISOR	DATE
SPIKE WITNESS	KH					John Bailey	02/23/05

TCLP EXTRACTIONS

DATE: 2/16/5

BATCH # 287681

ANALYST: GCJ

Sample Number:	216+81K	20502164301	20502163501				
Sample Description		Mud	ROCK				
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		√	√				
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		√	√				
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0				
Actual volume of water (96.5± 1mL)		97	97				
Initial pH (After 5 min. mixing) "pH-1"		855	244				
√ If pH >5, if 3.5 mL 1N HCl added		√					
√ If heated and held at 50°C for 10 minutes		√					
Second pH "pH-2"		147					
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		√	√				
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		√	√				
Weight of Solids to be Extracted (X)		100	100				
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000	2000				
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700	1700				
Stop Time	900	900	900				
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	5.45	3.11				

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-1A-2

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

000139

TCLP EXTRACTIONS

DATE: 2-17-5 BATCH # 287703 ANALYST: JPA

Sample Number:	20502172009	0217tblk					
Sample Description	sludge	Ext.1					
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)	√						
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)	√						
Actual Weight of subsample (5.0± 0.1g)	5.0						
Actual volume of water (96.5± 1mL)	97						
Initial pH (After 5 min. mixing) "pH-1"	6.72						
√ If pH >5, if 3.5 mL 1N HCl added	√						
√ If heated and held at 50°C for 10 minutes	√						
Second pH "pH-2"	1.18						
If pH-1 or pH-2 <5.0 use Fluid 1 (√)	√						
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)	√						
Weight of Solids to be Extracted (X)	100						
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000					
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700					
Stop Time	900	900					
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	4.89					

* If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.
%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 Maximum °C: 23.0

EXTRACTION FLUID #1 pH and ID: 131-64-2 (4.90)

EXTRACTION FLUID #2 pH and ID: _____

Secondary Review: SKB

000140

000040

TCLP EXTRACTIONS

DATE: 2-21-5 BATCH # 287815 ANALYST: GCJ

Sample Number:	221TB1K	20502180602	20502180604	20502151401	20502180301	20502211902	
Sample Description	MB	Soil/Sand	Soil/Sand	RESIN	Sticks	CARBON	
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓	✓	✓	✓	
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)				VOID			
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)				0.55			
Weight of Liquid Phase (V+liquid)-V (L)				0.15			
Weight of Solid Phase (S-L) (SP)				0.4			
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓	✓	✓	✓	
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0	5.0	5.0	5.0	
Actual volume of water (96.5± 1mL)		97	97	97	97	97	
Initial pH (After 5 min. mixing) "pH-1"		867	931	929	458	653	
√ If pH >5, if 3.5 mL 1N HCl added		✓	✓	✓		✓	
√ If heated and held at 50°C for 10 minutes		✓	✓	✓		✓	
Second pH "pH-2"		155	157	179		138	
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓	✓	✓	✓	
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓		✓	✓	
Weight of Solids to be Extracted (X)							
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X							
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1600	1600	1600	1600	1600	1600	
Stop Time	800	800	800	800	800	800	
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	500	630	634		490	511	

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 20.5 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-64-3 497

EXTRACTION FLUID #2 pH and ID:

Secondary Review:

000141

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 31-JAN-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	4-16-3	b5754.d	0.00 ml	31-JAN-2005 11:51	1.000	1	
1100	4-16-3	b5754c.d	0.00 ml	31-JAN-2005 11:51	1.000	1	
1202	4-16-5	b5755.d	1000.00 ml	31-JAN-2005 13:21	1.000	2	
1201	4-16-4	b5756.d	30.00 g	31-JAN-2005 13:35	1.000	3	
1203	4-16-6	b5757.d	30.00 g	31-JAN-2005 13:50	1.000	4	
1204	4-16-7	b5758.d	30.00 g	31-JAN-2005 14:05	1.000	5	
1205	4-16-8	b5759.d	30.00 g	31-JAN-2005 14:20	1.000	6	
1206	4-16-9	b5760.d	30.00 g	31-JAN-2005 14:35	1.000	7	
1207	4-16-10	b5761.d	30.00 g	31-JAN-2005 14:50	1.000	8	
1208	4-16-11	b5762.d	30.00 g	31-JAN-2005 15:06	1.000	9	
ICV050	4-16-12	b5764.d	1000.00 ml	31-JAN-2005 16:06	1.000	11	
1400	4-19-6	b5765.d	1000.00 ml	31-JAN-2005 16:21	1.000	12	
1400	4-17-5	b5766.d	1000.00 ml	31-JAN-2005 16:36	1.000	13	
1201	4-17-4	b5767.d	1000.00 ml	31-JAN-2005 16:51	1.000	14	
1203	4-17-6	b5768.d	1000.00 ml	31-JAN-2005 17:06	1.000	15	
1204	4-17-7	b5769.d	1000.00 ml	31-JAN-2005 17:21	1.000	16	
1205	4-17-8	b5770.d	1000.00 ml	31-JAN-2005 17:36	1.000	17	
220502	BLK	b5771.d	30.00 g	31-JAN-2005 17:51	1.000	13	
20501262707	4372	b5772.d	1000.00 ml	31-JAN-2005 18:06	4.000	18	
20501272201	2554	b5773.d	30.00 g	31-JAN-2005 18:21	1.000	19	
20501272601	2554	b5774.d	30.00 g	31-JAN-2005 18:36	1.000	20	
20501272301	0357	b5775.d	30.00 g	31-JAN-2005 18:51	1.000	21	
20501272302	0357	b5776.d	30.00 g	31-JAN-2005 19:06	1.000	22	
20501272102	4382	b5777.d	30.00 g	31-JAN-2005 19:21	5.000	23	
20501272103	4382	b5778.d	30.00 g	31-JAN-2005 19:36	5.000	24	
220505	MS	b5779.d	30.00 g	31-JAN-2005 19:51	5.000	25	
220506	MSD	b5780.d	30.00 g	31-JAN-2005 20:06	5.000	26	
20501272104	4382	b5781.d	30.00 g	31-JAN-2005 20:21	5.000	27	
20501272105	4382	b5782.d	30.00 g	31-JAN-2005 20:36	5.000	28	
20501272108	4382	b5783.d	30.00 g	31-JAN-2005 20:51	5.000	29	
220873	BLK	b5784.d	1000.00 ml	31-JAN-2005 21:06	1.000	30	
220874	LCS	b5785.d	1000.00 ml	31-JAN-2005 21:21	1.000	31	
220875	LCSD	b5786.d	1000.00 ml	31-JAN-2005 21:36	1.000	32	
20501280307	4358	b5787.d	1000.00 ml	31-JAN-2005 21:51	1.000	33	
20501280314	4358	b5788.d	1000.00 ml	31-JAN-2005 22:06	1.000	34	
20501280322	4358	b5789.d	750.00 ml	31-JAN-2005 22:21	1.000	35	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 31-JAN-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
220831	BLK	b5790.d	1.00 g	31-JAN-2005 22:36	1.000	36	
220832	LCS	b5791.d	1.00 g	31-JAN-2005 22:51	1.000	37	
220833	LCSD	b5792.d	1.00 g	31-JAN-2005 23:05	1.000	38	
20501260402	2554	b5793.d	1.00 g	31-JAN-2005 23:20	10.000	39	
220834	MS	b5794.d	1.00 g	31-JAN-2005 23:35	10.000	40	
220835	MSD	b5795.d	1.00 g	31-JAN-2005 23:50	10.000	41	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 23-FEB-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	4-16-3	b6219.d	0.00 ml	23-FEB-2005 09:05	1.000	1	
1100	4-16-3	b6219c.d	0.00 ml	23-FEB-2005 09:05	1.000	1	
1400	4-16-5	b6220.d	1000.00 ml	23-FEB-2005 09:17	1.000	2	
1400	4-19-6	b6221.d	1000.00 ml	23-FEB-2005 09:32	1.000	3	
20502211901	0082	b6222.d	30.00 g	23-FEB-2005 09:47	1.000	4	
224702	MSD	b6223.d	30.00 g	23-FEB-2005 10:02	1.000	5	
224701	MS	b6224.d	30.00 g	23-FEB-2005 10:17	10.000	19	
224702	MSD	b6225.d	30.00 g	23-FEB-2005 10:32	10.000	20	
224688	BLK	b6226.d	1000.00 ml	23-FEB-2005 10:47	1.000	6	
224689	LCS	b6227.d	1000.00 ml	23-FEB-2005 11:02	1.000	7	
224690	LCSD	b6228.d	1000.00 ml	23-FEB-2005 11:17	1.000	8	
20502180605	4380	b6229.d	1000.00 ml	23-FEB-2005 11:32	100.000	9	
20502180602	4380	b6230.d	200.00 ml	23-FEB-2005 11:47	1.000	10	
20502180604	4380	b6231.d	200.00 ml	23-FEB-2005 12:02	1.000	11	
224691	MS	b6232.d	200.00 ml	23-FEB-2005 12:16	1.000	12	
224692	MSD	b6233.d	200.00 ml	23-FEB-2005 12:31	1.000	13	
20502164301	0011	b6234.d	200.00 ml	23-FEB-2005 12:46	1.000	14	
20502172209	1996	b6235.d	200.00 ml	23-FEB-2005 13:01	1.000	15	
20502180301	4995	b6236.d	200.00 ml	23-FEB-2005 13:16	1.000	16	
20502211902	0082	b6237.d	200.00 ml	23-FEB-2005 13:31	1.000	17	
0221TBLK	TBLK	b6238.d	200.00 ml	23-FEB-2005 13:46	1.000	18	
20502180605	4380	b6239.d	1000.00 ml	23-FEB-2005 14:01	10.000	21	

REVISED 6-1-95 Supervisor Review: QA Review:

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 8. decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC1W050217
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180601
Date Collected: 02/17/05 Time: 1150
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0336
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15037

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	43.5	U	3.28	43.5
11104-28-2	Aroclor-1221	43.5	U	9.97	43.5
11141-16-5	Aroclor-1232	43.5	U	10.9	43.5
53469-21-9	Aroclor-1242	43.5	U	12.8	43.5
12672-29-6	Aroclor-1248	43.5	U	8.49	43.5
11097-69-1	Aroclor-1254	43.5	U	7.06	43.5
11096-82-5	Aroclor-1260	43.5	U	3.28	43.5

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: 6. decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC4W050217
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180603
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0355
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15038

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	43.0	U	3.25	43.0
11104-28-2	Aroclor-1221	43.0	U	9.86	43.0
11141-16-5	Aroclor-1232	43.0	U	10.8	43.0
53469-21-9	Aroclor-1242	43.0	U	12.6	43.0
12672-29-6	Aroclor-1248	43.0	U	8.40	43.0
11097-69-1	Aroclor-1254	43.0	U	6.98	43.0
11096-82-5	Aroclor-1260	43.0	U	3.25	43.0

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288153

Sample ID: 05283WC2W050217
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180605
Date Collected: 02/17/05 Time: 1215
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 03/01/05 Time: 1046
Dilution Factor: 10 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15057

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	10.0	U	1.20	10.0
11104-28-2	Aroclor-1221	10.0	U	2.30	10.0
11141-16-5	Aroclor-1232	10.0	U	2.00	10.0
53469-21-9	Aroclor-1242	10.0	U	2.50	10.0
12672-29-6	Aroclor-1248	10.0	U	1.30	10.0
11097-69-1	Aroclor-1254	10.0	U	2.10	10.0
11096-82-5	Aroclor-1260	10.0	U	1.90	10.0

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: MB224684
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224684
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1705
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B004

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: MB224435
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224435
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 1954
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B012

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	40.0	U	3.02	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	40.0	U	3.02	40.0

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: LCS224685
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224685
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1821
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B007

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4.14		0.120	1.00
11096-82-5	Aroclor-1260	4.24		0.190	1.00

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: LCSD224686
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224686
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1840
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B008

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4.18		0.120	1.00
11096-82-5	Aroclor-1260	4.16		0.190	1.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: LCS224436
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224436
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 2013
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B013

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	128		3.02	40.0
11096-82-5	Aroclor-1260	134		3.02	40.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: LCSD224437
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224437
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 2127
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B017

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	136		3.02	40.0
11096-82-5	Aroclor-1260	141		3.02	40.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC4W050217MS
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224438
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0413
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15039

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	129		3.25	43.0
11104-28-2	Aroclor-1221	43.0	U	9.86	43.0
11141-16-5	Aroclor-1232	43.0	U	10.8	43.0
53469-21-9	Aroclor-1242	43.0	U	12.6	43.0
12672-29-6	Aroclor-1248	43.0	U	8.40	43.0
11097-69-1	Aroclor-1254	43.0	U	6.98	43.0
11096-82-5	Aroclor-1260	129		3.25	43.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC4W050217MSD
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224439
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0432
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15040

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	128		3.25	43.0
11104-28-2	Aroclor-1221	43.0	U	9.86	43.0
11141-16-5	Aroclor-1232	43.0	U	10.8	43.0
53469-21-9	Aroclor-1242	43.0	U	12.6	43.0
12672-29-6	Aroclor-1248	43.0	U	8.40	43.0
11097-69-1	Aroclor-1254	43.0	U	6.98	43.0
11096-82-5	Aroclor-1260	133		3.25	43.0

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8082

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. 05283WC2W050217	0	34	135	D													0
2. MB224684	85	34	135														0
3. LCS224685	94	34	135														0
4. LCSD224686	93	34	135														0

SMC 1 : Decachlorobiphenyl SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8082

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283WC1W050217	75								0
2. 05283WC4W050217	67								0
3. MB224435	106								0
4. LCS224436	98								0
5. LCSD224437	103								0
6. 05283WC4W050217MS	84								0
7. 05283WC4W050217MSD	85								0

CONTROL LIMITS

SMC 1 : Decachlorobiphenyl 56 159

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8082

Prep Batch: 287818 Analytical Batch: 288159

SAMPLE NO : 224685

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/L	4	0	4.14	104		55 - 131
Aroclor-1260	ug/L	4	0	4.24	106		51 - 138

SAMPLE NO : 224686

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/L	4	4.18	105		1		55 - 131	0 - 35
Aroclor-1260	ug/L	4	4.16	104		2		51 - 138	0 - 34

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC4W050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288153

Spike HSN : 224438

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	143	0	129	90		40 - 154
Aroclor-1260	ug/kg	143	0	129	90		40 - 168

Spike Dupe HSN : 224439

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	143	128	89		.8		40 - 154	0 - 43
Aroclor-1260	ug/kg	143	133	93		3		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288159

Spike HSN : 224436

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	133	0	128	96		62 - 124
Aroclor-1260	ug/kg	133	0	134	101		62 - 129

Spike Dupe HSN : 224437

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	133	136	102		6		62 - 124	0 - 31
Aroclor-1260	ug/kg	133	141	106		5		62 - 129	0 - 36

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224684

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224684

SAS No.: SDG No.: 205021806

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/28/05 Time (1): 1705

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Prep Batch: 287818 Analytical Batch: 288159

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224685	224685	02/28/05	1821		
2.	LCSD224686	224686	02/28/05	1840		
3.	05283WC2W050217	20502180605	03/01/05	1046		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224435

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224435

SAS No.: SDG No.: 205021806

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 02/21/05

Date Analyzed (1): 02/28/05 Time (1): 1954

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288159

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224436	224436	02/28/05	2013		
2.	LCSD224437	224437	02/28/05	2127		
3.	05283WC1W050217	20502180601	03/01/05	0336		
4.	05283WC4W050217	20502180603	03/01/05	0355		
5.	05283WC4W050217MS	224438	03/01/05	0413		
6.	05283WC4W050217MSD	224439	03/01/05	0432		

Report Date : 04-Mar-2005 15:22

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Cal Date : 01-Mar-2005 15:08 dlb
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15.i/2050226.b/sv15015.d
Level 2: /var/chem/gcsv15.i/2050226.b/sv15016.d
Level 3: /var/chem/gcsv15.i/2050226.b/sv15017.d
Level 4: /var/chem/gcsv15.i/2050226.b/sv15018.d
Level 5: /var/chem/gcsv15.i/2050226.b/sv15019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	5802750	5871322	6239122	4605727	6271058	5757996	11.770
	3 gamma-BHC (Lindane)	5404696	5249965	5534554	4797525	5562808	5309910	5.877
	4 Heptachlor	5666752	5735025	6235057	5732132	5844931	5842780	3.910
	5 Aldrin	5155331	4774825	5007626	4540801	4991157	4893948	4.895
	6 beta-BHC	2774555	2471670	2589879	2623242	2582699	2608409	4.179
	7 delta-BHC	3964169	3828655	3773808	3185480	4295974	3809617	10.595
	8 Heptachlor epoxide	4547818	4410898	4455664	3972812	4430949	4363628	5.149
	9 Endosulfan I	3840572	4154514	4224247	3866976	4198292	4056920	4.618
	10 gamma-Chlordane	4575698	4688534	4610682	4073454	4619873	4513648	5.527
	11 alpha-Chlordane	4350575	4342060	4367285	3690925	4410230	4232215	7.177
	12 4,4'-DDE	4464808	4488272	4539022	3893551	4536355	4384402	6.300
	13 Dieldrin	4570829	4533114	4628729	4020759	4626206	4475927	5.755
	14 Endrin	3567297	3509706	3523031	2994213	3608372	3440524	7.339
	15 4,4'-DDD	3774601	3870738	3888849	3255059	3868792	3731608	7.239
	16 Endosulfan II	3784764	3813586	3835173	3324613	3849339	3721495	5.997
	17 4,4'-DDT	3097663	3160207	3201611	2655680	3322684	3087569	8.260
	18 Endrin aldehyde	2910471	2920386	2869436	2422833	2860322	2796690	7.529
	19 Methoxychlor	1615778	1569794	1544233	1233379	1578317	1508300	10.330
	20 Endosulfan sulfate	3199384	3252535	3234710	2655262	3293024	3126983	8.502
	21 Endrin ketone	3614249	3641770	3724348	3034988	3764365	3555944	8.366
M	23 AR 1016-AVG	919936	888675	823360	799592	761575	838628	7.730
	24 AR 1016-PEAK1	90013	85247	74285	90000	78498	83609	8.406
	25 AR 1016-PEAK2	236792	226822	208395	192418	183532	209592	10.701
	26 AR 1016-PEAK3	442021	434422	407148	389615	377020	410045	6.825
	27 AR 1016-PEAK4	151111	142185	133532	127559	122524	135382	8.451
M	28 AR 1260-AVG	1118071	1075783	1046151	1048428	1035070	1064701	3.136

Report Date : 04-Mar-2005 15:22

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Cal Date : 01-Mar-2005 15:08 dlb
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	150819	138101	137412	133017	127159	137302	6.356
	30 AR 1260-PEAK2	230317	219555	209237	204625	202710	213289	5.410
	31 AR 1260-PEAK3	269488	259130	249622	248733	244939	254382	3.904
	32 AR 1260-PEAK4	467448	458996	449880	462052	460262	459728	1.388
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	208008	+++++	+++++	208008	0.000
	38 AR 1221-PEAK1	+++++	+++++	13645	+++++	+++++	13645	0.000
	39 AR 1221-PEAK2	+++++	+++++	57875	+++++	+++++	57875	0.000
	40 AR 1221-PEAK3	+++++	+++++	34874	+++++	+++++	34874	0.000
	41 AR 1221-PEAK4	+++++	+++++	101614	+++++	+++++	101614	0.000
M	42 AR 1232-AVG	+++++	+++++	443847	+++++	+++++	443847	0.000
	43 AR 1232-PEAK1	+++++	+++++	101958	+++++	+++++	101958	0.000
	44 AR 1232-PEAK2	+++++	+++++	102998	+++++	+++++	102998	0.000
	45 AR 1232-PEAK3	+++++	+++++	173802	+++++	+++++	173802	0.000
	46 AR 1232-PEAK4	+++++	+++++	65088	+++++	+++++	65088	0.000
M	47 AR 1242-AVG	+++++	+++++	687204	+++++	+++++	687204	0.000
	48 AR 1242-PEAK1	+++++	+++++	65267	+++++	+++++	65267	0.000
	49 AR 1242-PEAK2	+++++	+++++	169829	+++++	+++++	169829	0.000
	50 AR 1242-PEAK3	+++++	+++++	329133	+++++	+++++	329133	0.000
	51 AR 1242-PEAK4	+++++	+++++	122975	+++++	+++++	122975	0.000
M	52 AR 1248-AVG	+++++	+++++	554539	+++++	+++++	554539	0.000
	53 AR 1248-PEAK1	+++++	+++++	78876	+++++	+++++	78876	0.000
	54 AR 1248-PEAK2	+++++	+++++	115836	+++++	+++++	115836	0.000
	55 AR 1248-PEAK3	+++++	+++++	156564	+++++	+++++	156564	0.000
	56 AR 1248-PEAK4	+++++	+++++	203263	+++++	+++++	203263	0.000
M	57 AR 1254-AVG	+++++	+++++	731294	+++++	+++++	731294	0.000
	58 AR 1254-PEAK1	+++++	+++++	78204	+++++	+++++	78204	0.000
	59 AR 1254-PEAK2	+++++	+++++	141400	+++++	+++++	141400	0.000
	60 AR 1254-PEAK3	+++++	+++++	290981	+++++	+++++	290981	0.000
	61 AR 1254-PEAK4	+++++	+++++	220709	+++++	+++++	220709	0.000

Report Date : 04-Mar-2005 15:22

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Cal Date : 01-Mar-2005 15:08 dlb
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	574543	574543	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	104230	104230	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	139641	139641	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	152774	152774	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	177898	177898	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	1434205	1434205	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	199504	199504	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	221659	221659	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	510430	510430	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	448048	448048	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	54564	54564	0.000
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	6163952	4909541	4768677	4214094	5835291	5178311	15.488
$	22 Decachlorobiphenyl	3588431	3237012	3157804	2482357	3274882	3148097	12.915

Report Date : 04-Mar-2005 15:22

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:26
End Cal Date	: 26-FEB-2005 17:42
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Cal Date	: 01-Mar-2005 15:08 dlb
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.18817186                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15.i/2050226.b/sv15024.d
Report Date: 26-Feb-2005 20:19

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: pcbicv.spk
Sublist File: pcbicv.sub
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
M 23 AR 1016-AVG	400	350	88.32	85-115
M 28 AR 1260-AVG	400	370	91.36	85-115

Data File: /var/chem/gcsv15.i/2050228p.b/sv15036.d
Report Date: 01-Mar-2005 15:07

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15036.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 03:17
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	838628	824613	0.010	1.67109	15.00000	Averaged
24 AR 1016-PEAK1	83609	87370	0.010	-4.49859	15.00000	Averaged
25 AR 1016-PEAK2	209592	204993	0.010	2.19411	15.00000	Averaged
26 AR 1016-PEAK3	410045	401795	0.010	2.01192	15.00000	Averaged
27 AR 1016-PEAK4	135382	130455	0.010	3.63928	15.00000	Averaged
M 28 AR 1260-AVG	1064701	1049646	0.010	1.41401	15.00000	Averaged
29 AR 1260-PEAK1	137302	134126	0.010	2.31296	15.00000	Averaged
30 AR 1260-PEAK2	213289	206033	0.010	3.40203	15.00000	Averaged
31 AR 1260-PEAK3	254382	249278	0.010	2.00660	15.00000	Averaged
32 AR 1260-PEAK4	459728	460209	0.010	-0.10471	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.32553
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15045.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15045.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 06:05
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	838628	800916	0.010	4.49682	15.00000	Averaged	
24 AR 1016-PEAK1	83609	97253	0.010	-16.31957	15.00000	Averaged	<-
25 AR 1016-PEAK2	209592	198186	0.010	5.44205	15.00000	Averaged	
26 AR 1016-PEAK3	410045	382205	0.010	6.78956	15.00000	Averaged	
27 AR 1016-PEAK4	135382	123272	0.010	8.94489	15.00000	Averaged	
M 28 AR 1260-AVG	1064701	975330	0.010	8.39397	15.00000	Averaged	
29 AR 1260-PEAK1	137302	123828	0.010	9.81323	15.00000	Averaged	
30 AR 1260-PEAK2	213289	191143	0.010	10.38307	15.00000	Averaged	
31 AR 1260-PEAK3	254382	231750	0.010	8.89708	15.00000	Averaged	
32 AR 1260-PEAK4	459728	428609	0.010	6.76888	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 8.62491
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15056.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15056.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 09:29
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	838628	762095	0.010	9.12598	15.00000	Averaged	
24 AR 1016-PEAK1	83609	93263	0.010	-11.54783	15.00000	Averaged	
25 AR 1016-PEAK2	209592	185273	0.010	11.60284	15.00000	Averaged	
26 AR 1016-PEAK3	410045	356486	0.010	13.06171	15.00000	Averaged	
27 AR 1016-PEAK4	135382	127072	0.010	6.13853	15.00000	Averaged	
M 28 AR 1260-AVG	1064701	863196	0.010	18.92594	15.00000	Averaged	<-
29 AR 1260-PEAK1	137302	110841	0.010	19.27208	15.00000	Averaged	<-
30 AR 1260-PEAK2	213289	173846	0.010	18.49281	15.00000	Averaged	<-
31 AR 1260-PEAK3	254382	207247	0.010	18.52945	15.00000	Averaged	<-
32 AR 1260-PEAK4	459728	371263	0.010	19.24290	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 14.59401
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15060.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15060.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 11:42
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	838628	813616	0.010	2.98246	15.00000	Averaged	
24 AR 1016-PEAK1	83609	87744	0.010	-4.94674	15.00000	Averaged	
25 AR 1016-PEAK2	209592	198449	0.010	5.31638	15.00000	Averaged	
26 AR 1016-PEAK3	410045	399353	0.010	2.60762	15.00000	Averaged	
27 AR 1016-PEAK4	135382	128070	0.010	5.40141	15.00000	Averaged	
M 28 AR 1260-AVG	1064701	914266	0.010	14.12929	15.00000	Averaged	
29 AR 1260-PEAK1	137302	119416	0.010	13.02656	15.00000	Averaged	
30 AR 1260-PEAK2	213289	189826	0.010	11.00059	15.00000	Averaged	
31 AR 1260-PEAK3	254382	220293	0.010	13.40079	15.00000	Averaged	
32 AR 1260-PEAK4	459728	384731	0.010	16.31328	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 8.91251
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 04-Mar-2005 15:27

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Cal Date : 01-Mar-2005 15:21 sjt
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15b.i/2050226.b/sv15b015.d
Level 2: /var/chem/gcsv15b.i/2050226.b/sv15b016.d
Level 3: /var/chem/gcsv15b.i/2050226.b/sv15b017.d
Level 4: /var/chem/gcsv15b.i/2050226.b/sv15b018.d
Level 5: /var/chem/gcsv15b.i/2050226.b/sv15b019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	12144604	12710175	12680362	12533618	12386289	12491010	1.863
	3 gamma-BHC (Lindane)	11057675	11400469	11241527	11065569	10941651	11141378	1.617
	4 Heptachlor	7883439	8571668	8494849	8359996	8400248	8342040	3.228
	5 Aldrin	10045457	10160034	9734624	9559232	9369377	9773745	3.371
	6 beta-BHC	5372555	5195359	5186473	4962726	4904981	5124419	3.712
	7 delta-BHC	10763796	11187742	11126167	10979606	10839720	10979406	1.648
	8 Heptachlor epoxide	10460643	9089150	8555353	8345266	8202336	8930550	10.293
	9 Endosulfan I	10489870	8868454	8110673	7930935	7812554	8642497	12.861
	10 gamma-Chlordane	9313725	9311513	9023671	8857525	8770767	9055440	2.780
	11 alpha-Chlordane	9241864	9051515	8785471	8607979	8495467	8836459	3.496
	12 4,4'-DDE	9355584	9026156	8512565	8309587	8263272	8693433	5.499
	13 Dieldrin	9389390	9231903	8721419	8532012	8453158	8865576	4.755
	14 Endrin	7089224	6950149	6615502	6363260	6459144	6695456	4.679
	15 4,4'-DDD	6019792	7672318	7426177	7278403	7186459	7116630	8.994
	16 Endosulfan II	7696972	7493142	7109214	6923354	6922797	7229096	4.843
	17 4,4'-DDT	5396069	5943688	6032168	5828923	6075455	5855261	4.671
	18 Endrin aldehyde	6030436	5954979	5645092	5494688	5508176	5726674	4.388
	19 Methoxychlor	2800314	2896692	2337625	2739946	2898251	2734565	8.478
	20 Endosulfan sulfate	6628193	6604678	6357094	6182901	6214827	6397538	3.290
	21 Endrin ketone	7322552	7378886	7243522	7139042	7182989	7253398	1.355
M	23 AR 1016-AVG	1133234	1109112	1014342	906064	820442	996639	13.356
	24 AR 1016-PEAK1	205922	219801	198035	184091	161031	193776	11.565
	25 AR 1016-PEAK2	274177	255840	240636	202397	191798	232970	15.038
	26 AR 1016-PEAK3	391525	373862	333550	305047	263808	333558	15.478
	27 AR 1016-PEAK4	261610	259609	242121	214529	203805	236335	11.090
M	28 AR 1260-AVG	2487280	2413448	2284583	2089372	2111422	2277221	7.779

Report Date : 04-Mar-2005 15:27

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Cal Date : 01-Mar-2005 15:21 sjt
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	480265	461384	426641	386211	380030	426906	10.403
	30 AR 1260-PEAK2	552355	536442	502033	456855	455500	500637	8.884
	31 AR 1260-PEAK3	600885	574998	542732	496292	499133	542808	8.483
	32 AR 1260-PEAK4	853775	840624	813177	750014	776759	806870	5.373
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	511429	+++++	+++++	511429	0.000
	38 AR 1221-PEAK1	+++++	+++++	78512	+++++	+++++	78512	0.000
	39 AR 1221-PEAK2	+++++	+++++	109288	+++++	+++++	109288	0.000
	40 AR 1221-PEAK3	+++++	+++++	71563	+++++	+++++	71563	0.000
	41 AR 1221-PEAK4	+++++	+++++	252066	+++++	+++++	252066	0.000
M	42 AR 1232-AVG	+++++	+++++	534969	+++++	+++++	534969	0.000
	43 AR 1232-PEAK1	+++++	+++++	227048	+++++	+++++	227048	0.000
	44 AR 1232-PEAK2	+++++	+++++	70641	+++++	+++++	70641	0.000
	45 AR 1232-PEAK3	+++++	+++++	146973	+++++	+++++	146973	0.000
	46 AR 1232-PEAK4	+++++	+++++	90308	+++++	+++++	90308	0.000
M	47 AR 1242-AVG	+++++	+++++	814185	+++++	+++++	814185	0.000
	48 AR 1242-PEAK1	+++++	+++++	146859	+++++	+++++	146859	0.000
	49 AR 1242-PEAK2	+++++	+++++	191545	+++++	+++++	191545	0.000
	50 AR 1242-PEAK3	+++++	+++++	269231	+++++	+++++	269231	0.000
	51 AR 1242-PEAK4	+++++	+++++	206550	+++++	+++++	206550	0.000
M	52 AR 1248-AVG	+++++	+++++	1169121	+++++	+++++	1169121	0.000
	53 AR 1248-PEAK1	+++++	+++++	210052	+++++	+++++	210052	0.000
	54 AR 1248-PEAK2	+++++	+++++	275405	+++++	+++++	275405	0.000
	55 AR 1248-PEAK3	+++++	+++++	298651	+++++	+++++	298651	0.000
	56 AR 1248-PEAK4	+++++	+++++	385014	+++++	+++++	385014	0.000
M	57 AR 1254-AVG	+++++	+++++	1463965	+++++	+++++	1463965	0.000
	58 AR 1254-PEAK1	+++++	+++++	178390	+++++	+++++	178390	0.000
	59 AR 1254-PEAK2	+++++	+++++	281362	+++++	+++++	281362	0.000
	60 AR 1254-PEAK3	+++++	+++++	526821	+++++	+++++	526821	0.000
	61 AR 1254-PEAK4	+++++	+++++	477393	+++++	+++++	477393	0.000

Report Date : 04-Mar-2005 15:27

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Cal Date : 01-Mar-2005 15:21 sjt
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	845561	845561	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	172884	172884	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	186350	186350	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	255915	255915	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	230412	230412	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	2867373	2867373	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	401568	401568	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	421259	421259	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	1177484	1177484	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	867063	867063	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	11657127	11604669	11175543	11023841	10730723	11238381	3.495
$	22 Decachlorobiphenyl	6139163	5750432	5646283	5515756	5694429	5749213	4.081

Report Date : 04-Mar-2005 15:27

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:44
End Cal Date	: 26-FEB-2005 18:00
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Cal Date	: 01-Mar-2005 15:21 sjt
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.01042461                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15b.i/2050226.b/sv15b024.d
Report Date: 26-Feb-2005 20:20

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: pcbicv.spk
Sublist File: pcbicv.sub
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
M 23 AR 1016-AVG	400	360	91.20	85-115
M 28 AR 1260-AVG	400	370	92.25	85-115

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b003.d
Report Date: 01-Mar-2005 15:16

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b003.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 15:09
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	996639	963661	0.010	3.30889	15.00000	Averaged
	24 AR 1016-PEAK1	193776	184088	0.010	4.99951	15.00000	Averaged
	25 AR 1016-PEAK2	232970	230028	0.010	1.26259	15.00000	Averaged
	26 AR 1016-PEAK3	333558	322853	0.010	3.20949	15.00000	Averaged
	27 AR 1016-PEAK4	236335	226692	0.010	4.08015	15.00000	Averaged
M	28 AR 1260-AVG	2277221	2212811	0.010	2.82845	15.00000	Averaged
	29 AR 1260-PEAK1	426906	405873	0.010	4.92684	15.00000	Averaged
	30 AR 1260-PEAK2	500637	476060	0.010	4.90918	15.00000	Averaged
	31 AR 1260-PEAK3	542808	518135	0.010	4.54548	15.00000	Averaged
	32 AR 1260-PEAK4	806870	812743	0.010	-0.72791	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.47985
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b016.d
Report Date: 01-Mar-2005 15:18

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b016.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 21:09
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	996639	907098	0.010	8.98431	15.00000	Averaged
24 AR 1016-PEAK1	193776	168514	0.010	13.03648	15.00000	Averaged
25 AR 1016-PEAK2	232970	221887	0.010	4.75702	15.00000	Averaged
26 AR 1016-PEAK3	333558	303380	0.010	9.04742	15.00000	Averaged
27 AR 1016-PEAK4	236335	213316	0.010	9.73985	15.00000	Averaged
M 28 AR 1260-AVG	2277221	2117724	0.010	7.00404	15.00000	Averaged
29 AR 1260-PEAK1	426906	386342	0.010	9.50189	15.00000	Averaged
30 AR 1260-PEAK2	500637	456513	0.010	8.81366	15.00000	Averaged
31 AR 1260-PEAK3	542808	497333	0.010	8.37774	15.00000	Averaged
32 AR 1260-PEAK4	806870	777536	0.010	3.63552	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.28979
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b021.d
Report Date: 01-Mar-2005 15:18

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b021.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 23:16
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	996639	962445	0.010	3.43095	15.00000	Averaged
24 AR 1016-PEAK1	193776	179229	0.010	7.50688	15.00000	Averaged
25 AR 1016-PEAK2	232970	231753	0.010	0.52228	15.00000	Averaged
26 AR 1016-PEAK3	333558	324262	0.010	2.78707	15.00000	Averaged
27 AR 1016-PEAK4	236335	227201	0.010	3.86501	15.00000	Averaged
M 28 AR 1260-AVG	2277221	2237594	0.010	1.74015	15.00000	Averaged
29 AR 1260-PEAK1	426906	413412	0.010	3.16085	15.00000	Averaged
30 AR 1260-PEAK2	500637	476812	0.010	4.75901	15.00000	Averaged
31 AR 1260-PEAK3	542808	526193	0.010	3.06082	15.00000	Averaged
32 AR 1260-PEAK4	806870	821177	0.010	-1.77309	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.26061
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-21-05 1230	BATCH NO:	287769
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 287769 [EXTO/7093]	224435	30.0	10.0		PCB	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287769 [EXTO/7093]	224436	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 287769 [EXTO/7093	224437	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	05283GCP050217	20502180504	1.0	10.0		Due to Matrix	
5	4380	05283WC1W050217	20502180601	30.0	10.0			GPC CLEANUP/3640
6	4380	05283WC4W050217	20502180603	30.0	10.0			
7	QC ACCOUNT	05283WC4W050217 (224287MS)	224438	30.0	10.0			SONICATOR/3550 ✓
8	QC ACCOUNT	05283WC4W050217 (224287MSD)	224439	30.0	10.0			
9	4484	TO1090101	20502182401	30.0	10.0			FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No: 1-76-8
20								
21								ACETONE LOT NO: 046140
22								
23								MECL2 Lot No: 045514
24								
25								HEXANE Lot No: 044711
26								
27								Sodium Sulfate Lot No: 044031
28								

SHB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

Due to Matrix of sample only one gram was used

ABP 2-21-05

SURROGATE ID	9-9-9	8081 SPIKE ID		PCB 608 SPIKE ID	9-12-5	TECHNICIAN	DATE
VOLUME 1.0ml	0.5ml	VOLUME		VOLUME	1.0ml		
CONCENTRATION	0.5 ng/ml	CONCENTRATION		CONCENTRATION	4.0 ng/ml	Alex Polyzogopoulos	2-21-05
ACID						SUPERVISOR	DATE
SPIKE WITNESS	K.H					John Bailey	02/22/05

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2/22/05 1100	BATCH NO:	287818
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 287818 [EXTO/7101]	224684	1000	10.0	7	PCB	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287818 [EXTO/7101]	224685	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287818 [EXTO/7101	224686	1000	10.0	7		SEPARATORY FUNNEL/3510
4	4380	05283WC2W050217	20502180605	1000	10.0	7		
5	4380	05283LOP050217	20502180505	1000	10.0	7		GPC CLEANUP/3640
6								
7								SONICATOR/3550
8								
9								FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No:
20								
21								ACETONE LOT NO:
22								
23								MECL2 Lot No:
24								045514
25								HEXANE Lot No:
26								
27								Sodium Sulfate Lot No:
28								044031

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

				PCB			
SURROGATE ID	9-9-9	8081 SPIKE ID		~~608~~ SPIKE ID	9-12-5	TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME		VOLUME	1.0mL	Duane Pate	2-22-05
CONCENTRATION	0.5ug/mL	CONCENTRATION		CONCENTRATION	4.0ug/mL		
ACID						SUPERVISOR	DATE
SPIKE WITNESS	KH					John Bailey	02/22/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/04/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050226.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15001.d	26-FEB-2005 11:59	1.000	tls	
1201		sv15002.d	26-FEB-2005 12:26	1.000	tls	
1202		sv15003.d	26-FEB-2005 12:44	1.000	tls	
1203		sv15004.d	26-FEB-2005 13:03	1.000	tls	
1204		sv15005.d	26-FEB-2005 13:21	1.000	tls	
1205		sv15006.d	26-FEB-2005 13:40	1.000	tls	
1600		sv15007.d	26-FEB-2005 13:59	1.000	tls	
1205		sv15008.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15009.d	26-FEB-2005 14:36	1.000	tls	
1203		sv15010.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15011.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15012.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15013.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15014.d	26-FEB-2005 16:09	1.000	tls	
1201		sv15015.d	26-FEB-2005 16:27	1.000	tls	
1202		sv15016.d	26-FEB-2005 16:46	1.000	tls	
1203		sv15017.d	26-FEB-2005 17:05	1.000	tls	
1204		sv15018.d	26-FEB-2005 17:23	1.000	tls	
1205		sv15019.d	26-FEB-2005 17:42	1.000	tls	
1600		sv15020.d	26-FEB-2005 18:00	1.000	tls	
DEG		sv15021.d	26-FEB-2005 18:19	1.000	tls	
1600		sv15022.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15001.d	28-FEB-2005 14:13	1.000	tls	
1400		sv15002.d	28-FEB-2005 14:32	1.000	tls	
1400		sv15003.d	28-FEB-2005 14:50	1.000	tls	
224679/84		sv15004.d	28-FEB-2005 16:28	1.000	sjt	
224680		sv15005.d	28-FEB-2005 16:47	1.000	sjt	
224681		sv15006.d	28-FEB-2005 17:05	1.000	sjt	
224685		sv15007.d	28-FEB-2005 17:24	1.000	sjt	
224686		sv15008.d	28-FEB-2005 17:53	1.000	sjt	
224430		sv15009.d	28-FEB-2005 18:21	1.000	sjt	
224431		sv15010.d	28-FEB-2005 18:40	1.000	sjt	
224432		sv15011.d	28-FEB-2005 18:59	1.000	sjt	
224435		sv15012.d	28-FEB-2005 19:17	1.000	sjt	
224436		sv15013.d	28-FEB-2005 19:36	1.000	sjt	
1400		sv15015.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15016.d	28-FEB-2005 20:31	1.000	sjt	
224437		sv15017.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15019.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15020.d	28-FEB-2005 21:46	1.000	sjt	
1400		sv15021.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15022.d	28-FEB-2005 22:57	1.000	sjt	
20502180505		sv15023.d	28-FEB-2005 23:16	1.000	sjt	
20502180602		sv15024.d	28-FEB-2005 23:34	1.000	sjt	
224682		sv15025.d	28-FEB-2005 23:53	1.000	sjt	
224683		sv15026.d	01-MAR-2005 00:12	1.000	sjt	
20502180604		sv15027.d	01-MAR-2005 00:30	1.000	sjt	
0221tblk		sv15028.d	01-MAR-2005 00:49	1.000	sjt	
20502172209		sv15029.d	01-MAR-2005 01:08	1.000	sjt	
20502182401		sv15030.d	01-MAR-2005 01:26	1.000	sjt	
deg		sv15032.d	01-MAR-2005 02:03	1.000	sjt	
1400		sv15033.d	01-MAR-2005 02:22	1.000	sjt	
1400		sv15034.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15035.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15036.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15043.d	01-MAR-2005 05:27	1.000	sjt	
1400		sv15044.d	01-MAR-2005 05:46	1.000	sjt	
1400		sv15045.d	01-MAR-2005 06:05	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		sv15046.d	01-MAR-2005 06:23	1.000	sjt	
20502180504		sv15047.d	01-MAR-2005 06:41	10.000	sjt	
20502180504		sv15048.d	01-MAR-2005 07:00	1.000	sjt	
224433		sv15049.d	01-MAR-2005 07:19	1.000	sjt	
224434		sv15050.d	01-MAR-2005 07:37	1.000	sjt	
20502180504		sv15051.d	01-MAR-2005 07:56	1.000	sjt	
1400		sv15053.d	01-MAR-2005 08:33	1.000	sjt	
1400		sv15054.d	01-MAR-2005 08:51	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/28/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050226.b
Column-Detector: RTX-XLB

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15b001.d	26-FEB-2005 12:26	1.000	tls	
1201		sv15b002.d	26-FEB-2005 12:44	1.000	tls	
1202		sv15b003.d	26-FEB-2005 13:03	1.000	tls	
1203		sv15b004.d	26-FEB-2005 13:21	1.000	tls	
1204		sv15b005.d	26-FEB-2005 13:40	1.000	tls	
1205		sv15b006.d	26-FEB-2005 13:59	1.000	tls	
1600		sv15b007.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15b008.d	26-FEB-2005 14:36	1.000	tls	
1205		sv15b009.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15b010.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15b011.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15b012.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15b013.d	26-FEB-2005 16:09	1.000	tls	
1203		sv15b014.d	26-FEB-2005 16:27	1.000	tls	
1201		sv15b015.d	26-FEB-2005 16:46	1.000	tls	
1202		sv15b016.d	26-FEB-2005 17:05	1.000	tls	
1203		sv15b017.d	26-FEB-2005 17:23	1.000	tls	
1204		sv15b018.d	26-FEB-2005 17:42	1.000	tls	
1205		sv15b019.d	26-FEB-2005 18:00	1.000	tls	
1600		sv15b020.d	26-FEB-2005 18:19	1.000	tls	
DEG		sv15b021.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15b022.d	26-FEB-2005 18:56	1.000	tls	
1600		sv15b024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15b001.d	28-FEB-2005 14:32	1.000	sjt	
1400		sv15b002.d	28-FEB-2005 14:50	1.000	sjt	
1400		sv15b003.d	28-FEB-2005 15:09	1.000	sjt	
224684		sv15b004.d	28-FEB-2005 17:05	1.000	sjt	
224680		sv15b005.d	28-FEB-2005 17:24	1.000	sjt	
224681		sv15b006.d	28-FEB-2005 17:53	1.000	sjt	
224685		sv15b007.d	28-FEB-2005 18:21	1.000	sjt	
224686		sv15b008.d	28-FEB-2005 18:40	1.000	sjt	
224430		sv15b009.d	28-FEB-2005 18:59	1.000	sjt	
224431		sv15b010.d	28-FEB-2005 19:17	1.000	sjt	
224432		sv15b011.d	28-FEB-2005 19:36	1.000	sjt	
224435		sv15b012.d	28-FEB-2005 19:54	1.000	sjt	
224436		sv15b013.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15b015.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15b016.d	28-FEB-2005 21:09	1.000	sjt	
224437		sv15b017.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15b019.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15b020.d	28-FEB-2005 22:57	1.000	sjt	
1400		sv15b021.d	28-FEB-2005 23:16	1.000	sjt	
1400		sv15b022.d	28-FEB-2005 23:34	1.000	sjt	
20502180505		sv15b023.d	28-FEB-2005 23:53	1.000	sjt	
20502180602		sv15b024.d	01-MAR-2005 00:12	1.000	sjt	
224682		sv15b025.d	01-MAR-2005 00:30	1.000	sjt	
224683		sv15b026.d	01-MAR-2005 00:49	1.000	sjt	
20502180604		sv15b027.d	01-MAR-2005 01:08	1.000	sjt	
0221tblk		sv15b028.d	01-MAR-2005 01:26	1.000	sjt	
20502172209		sv15b029.d	01-MAR-2005 01:45	1.000	sjt	
20502182401		sv15b030.d	01-MAR-2005 02:03	1.000	sjt	
deg		sv15b032.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15b033.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15b034.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15b035.d	01-MAR-2005 03:36	1.000	sjt	
1400		sv15b036.d	01-MAR-2005 03:55	1.000	sjt	
20502180601		sv15b037.d	01-MAR-2005 04:13	1.000	sjt	
20502180603		sv15b038.d	01-MAR-2005 04:32	1.000	sjt	
224438		sv15b039.d	01-MAR-2005 04:50	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
224439		sv15b040.d	01-MAR-2005 05:09	1.000	sjt	
1400		sv15b043.d	01-MAR-2005 06:05	1.000	sjt	
1400		sv15b044.d	01-MAR-2005 06:23	1.000	sjt	
1400		sv15b045.d	01-MAR-2005 06:41	1.000	sjt	
1400		sv15b046.d	01-MAR-2005 07:00	1.000	sjt	
20502180504		sv15b047.d	01-MAR-2005 07:19	10.000	sjt	
20502180504		sv15b048.d	01-MAR-2005 07:37	1.000	sjt	
224433		sv15b049.d	01-MAR-2005 07:56	1.000	sjt	
224434		sv15b050.d	01-MAR-2005 08:14	1.000	sjt	
1400		sv15b053.d	01-MAR-2005 09:10	1.000	sjt	
1400		sv15b054.d	01-MAR-2005 09:29	1.000	sjt	
1400		sv15b055.d	01-MAR-2005 09:47	1.000	sjt	
1400		sv15b056.d	01-MAR-2005 10:06	1.000	sjt	
20502180605		sv15b057.d	01-MAR-2005 11:23	10.000	sjt	
hexane		sv15b058.d	01-MAR-2005 11:42	1.000	sjt	
1400		sv15b059.d	01-MAR-2005 12:01	1.000	sjt	
1400		sv15b060.d	01-MAR-2005 12:19	1.000	sjt	
1400		sv15b061.d	01-MAR-2005 12:38	1.000	sjt	
1400		sv15b062.d	01-MAR-2005 12:56	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: 05283WC1W050217 (TCLP)
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180602
Date Collected: 02/17/05 Time: 1150
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 03/01/05 Time: 0012
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 3510
Analytical Method: 1311/8081A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B024

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
57-74-9	Chlordane	0.02500	U	0.00016	0.02500
72-20-8	Endrin	0.00100	U	0.00013	0.00100
76-44-8	Heptachlor	0.00050	U	0.00008	0.00050
1024-57-3	Heptachlor epoxide	0.00050	U	0.00010	0.00050
72-43-5	Methoxychlor	0.02500	U	0.00065	0.02500
8001-35-2	Toxaphene	0.25000	U	0.00050	0.25000
58-89-9	gamma-BHC (Lindane)	0.00050	U	0.00006	0.00050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: 05283WC4W050217 (TCLP)
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180604
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 03/01/05 Time: 0108
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 3510
Analytical Method: 1311/8081A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B027

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
57-74-9	Chlordane	0.02500	U	0.00016	0.02500
72-20-8	Endrin	0.00100	U	0.00013	0.00100
76-44-8	Heptachlor	0.00050	U	0.00008	0.00050
1024-57-3	Heptachlor epoxide	0.00050	U	0.00010	0.00050
72-43-5	Methoxychlor	0.02500	U	0.00065	0.02500
8001-35-2	Toxaphene	0.25000	U	0.00050	0.25000
58-89-9	gamma-BHC (Lindane)	0.00050	U	0.00006	0.00050

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: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288152

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC2W050217

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 20502180605

Date Collected: 02/17/05 Time: 1215

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 03/01/05 Time: 1046

Dilution Factor: 10 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A

Lab File ID: 2050228P/SV15057

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1.00	U	0.039	1.00
72-55-9	4,4'-DDE	1.00	U	0.111	1.00
50-29-3	4,4'-DDT	1.00	U	0.117	1.00
309-00-2	Aldrin	0.500	U	0.052	0.500
60-57-1	Dieldrin	1.00	U	0.094	1.00
959-98-8	Endosulfan I	0.500	U	0.055	0.500
33213-65-9	Endosulfan II	1.00	U	0.156	1.00
1031-07-8	Endosulfan sulfate	1.00	U	0.051	1.00
72-20-8	Endrin	1.00	U	0.166	1.00
7421-93-4	Endrin aldehyde	1.00	U	0.097	1.00
53494-70-5	Endrin ketone	1.00	U	0.085	1.00
76-44-8	Heptachlor	0.500	U	0.088	0.500
1024-57-3	Heptachlor epoxide	0.500	U	0.146	0.500
72-43-5	Methoxychlor	5.00	U	0.043	5.00
8001-35-2	Toxaphene	50.0	U	5.50	50.0
319-84-6	alpha-BHC	0.500	U	0.042	0.500
5103-71-9	alpha-Chlordane	0.500	U	0.055	0.500
319-85-7	beta-BHC	1.43		0.085	0.500
319-86-8	delta-BHC	0.500	U	0.046	0.500
58-89-9	gamma-BHC (Lindane)	0.500	U	0.051	0.500
5103-74-2	gamma-Chlordane	0.500	U	0.108	0.500

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: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288158

CONCENTRATION UNITS: ug/L

Sample ID: MB224679

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224679

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/28/05 Time: 1705

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2050228P/SV15B004

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00422	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

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: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288158

CONCENTRATION UNITS: ug/L

Sample ID: LCS224680

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224680

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/28/05 Time: 1724

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2050228P/SV15B005

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.463		0.00392	0.100
72-55-9	4,4'-DDE	0.596		0.011	0.100
50-29-3	4,4'-DDT	0.606		0.012	0.100
309-00-2	Aldrin	0.494		0.00522	0.050
60-57-1	Dieldrin	0.596		0.00942	0.100
959-98-8	Endosulfan I	0.472		0.00553	0.050
33213-65-9	Endosulfan II	0.599		0.016	0.100
1031-07-8	Endosulfan sulfate	0.665		0.00507	0.100
72-20-8	Endrin	0.630		0.017	0.100
7421-93-4	Endrin aldehyde	0.581		0.00967	0.100
53494-70-5	Endrin ketone	0.658		0.00852	0.100
76-44-8	Heptachlor	0.548		0.00877	0.050
1024-57-3	Heptachlor epoxide	0.661		0.015	0.050
72-43-5	Methoxychlor	0.795		0.00427	0.500
319-84-6	alpha-BHC	0.581		0.00422	0.050
5103-71-9	alpha-Chlordane	0.563		0.00547	0.050
319-85-7	beta-BHC	0.542		0.00847	0.050
319-86-8	delta-BHC	0.552		0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.571		0.00510	0.050
5103-74-2	gamma-Chlordane	0.562		0.011	0.050

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: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288158

CONCENTRATION UNITS: ug/L

Sample ID: LCSD224681

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224681

Date Collected: Time:

Date Received:

Date Extracted: 02/22/05

Date Analyzed: 02/28/05 Time: 1753

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2050228P/SV15B006

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.507		0.00392	0.100
72-55-9	4,4'-DDE	0.620		0.011	0.100
50-29-3	4,4'-DDT	0.653		0.012	0.100
309-00-2	Aldrin	0.518		0.00522	0.050
60-57-1	Dieldrin	0.610		0.00942	0.100
959-98-8	Endosulfan I	0.486		0.00553	0.050
33213-65-9	Endosulfan II	0.603		0.016	0.100
1031-07-8	Endosulfan sulfate	0.685		0.00507	0.100
72-20-8	Endrin	0.661		0.017	0.100
7421-93-4	Endrin aldehyde	0.661		0.00967	0.100
53494-70-5	Endrin ketone	0.683		0.00852	0.100
76-44-8	Heptachlor	0.602		0.00877	0.050
1024-57-3	Heptachlor epoxide	0.614		0.015	0.050
72-43-5	Methoxychlor	0.842		0.00427	0.500
319-84-6	alpha-BHC	0.604		0.00422	0.050
5103-71-9	alpha-Chlordane	0.576		0.00547	0.050
319-85-7	beta-BHC	0.573		0.00847	0.050
319-86-8	delta-BHC	0.575		0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.602		0.00510	0.050
5103-74-2	gamma-Chlordane	0.575		0.011	0.050

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 100 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288158

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC1W050217 (...MS

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224682

Date Collected: 02/17/05 Time: 1150

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 03/01/05 Time: 0030

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2050228P/SV15B025

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.59		0.039	1.00
72-55-9	4,4'-DDE	4.97		0.111	1.00
50-29-3	4,4'-DDT	5.18		0.117	1.00
309-00-2	Aldrin	4.17		0.052	0.500
60-57-1	Dieldrin	4.96		0.094	1.00
959-98-8	Endosulfan I	3.91		0.055	0.500
33213-65-9	Endosulfan II	5.00		0.156	1.00
1031-07-8	Endosulfan sulfate	5.44		0.051	1.00
72-20-8	Endrin	5.53		0.166	1.00
7421-93-4	Endrin aldehyde	4.80		0.097	1.00
53494-70-5	Endrin ketone	5.39		0.085	1.00
76-44-8	Heptachlor	5.05		0.088	0.500
1024-57-3	Heptachlor epoxide	5.07		0.146	0.500
72-43-5	Methoxychlor	6.59		0.043	5.00
8001-35-2	Toxaphene	50.0	U	5.50	50.0
319-84-6	alpha-BHC	5.41		0.042	0.500
5103-71-9	alpha-Chlordane	4.63		0.055	0.500
319-85-7	beta-BHC	4.80		0.085	0.500
319-86-8	delta-BHC	4.87		0.046	0.500
58-89-9	gamma-BHC (Lindane)	5.30		0.051	0.500
5103-74-2	gamma-Chlordane	4.73		0.108	0.500

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 100 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: ID: (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287817 Analytical Batch: 288158

CONCENTRATION UNITS: ug/L

Sample ID: 05283WC1W050217 ...MSD

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224683

Date Collected: 02/17/05 Time: 1150

Date Received: 02/18/05

Date Extracted: 02/22/05

Date Analyzed: 03/01/05 Time: 0049

Dilution Factor: 1 Analyst: SJT

Prep Method: 3510C

Analytical Method: SW-846 8081

Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

Lab File ID: 2050228P/SV15B026

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.83		0.039	1.00
72-55-9	4,4'-DDE	5.29		0.111	1.00
50-29-3	4,4'-DDT	5.64		0.117	1.00
309-00-2	Aldrin	5.20		0.052	0.500
60-57-1	Dieldrin	5.31		0.094	1.00
959-98-8	Endosulfan I	4.31		0.055	0.500
33213-65-9	Endosulfan II	5.14		0.156	1.00
1031-07-8	Endosulfan sulfate	5.91		0.051	1.00
72-20-8	Endrin	5.88		0.166	1.00
7421-93-4	Endrin aldehyde	5.21		0.097	1.00
53494-70-5	Endrin ketone	5.76		0.085	1.00
76-44-8	Heptachlor	5.95		0.088	0.500
1024-57-3	Heptachlor epoxide	5.33		0.146	0.500
72-43-5	Methoxychlor	6.69		0.043	5.00
8001-35-2	Toxaphene	50.0	U	5.50	50.0
319-84-6	alpha-BHC	5.58		0.042	0.500
5103-71-9	alpha-Chlordane	5.16		0.055	0.500
319-85-7	beta-BHC	5.17		0.085	0.500
319-86-8	delta-BHC	5.27		0.046	0.500
58-89-9	gamma-BHC (Lindane)	5.48		0.051	0.500
5103-74-2	gamma-Chlordane	5.20		0.108	0.500

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8081

	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 .	05283WC2W050217	0	45	148	D					0	34	135	D					0
2 .	MB224679	94	45	148						85	34	135						0
3 .	LCS224680	88	45	148						93	34	135						0
4 .	LCSD224681	88	45	148						88	34	135						0

SMC 1 : Tetrachloro-m-xylene SMC 2 : Decachlorobiphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: 1311/8081A

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. MB224679	94	45	148						85	34	135						0
2. LCS224680	88	45	148						93	34	135						0
3. LCSD224681	88	45	148						88	34	135						0

SMC 1 : Tetrachloro-m-xylene SMC 2 : Decachlorobiphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8081

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283WC1W050217 (...MS	83				85				0
2. 05283WC1W050217 ...MSD	88				93				0

	CONTROL LIMITS	
SMC 1 : Tetrachloro-m-xylene	52	151
SMC 2 : Decachlorobiphenyl	56	159

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: 1311/8081A

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283WC1W050217 (TCLP)	69				77				0
2. 05283WC4W050217 (TCLP)	94				98				0
3. 05283WC1W050217 (...MS	83				85				0
4. 05283WC1W050217 ...MSD	88				93				0

	CONTROL LIMITS	
SMC 1 : Tetrachloro-m-xylene	45	148
SMC 2 : Decachlorobiphenyl	34	135

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

SAMPLE NO : 224680

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/L	.5	0	.463	93		35 - 165
4,4'-DDE	ug/L	.5	0	.596	119		57 - 139
4,4'-DDT	ug/L	.5	0	.606	121		32 - 148
Aldrin	ug/L	.5	0	.494	99		51 - 144
Dieldrin	ug/L	.5	0	.596	119		59 - 169
Endosulfan I	ug/L	.5	0	.472	94		45 - 159
Endosulfan II	ug/L	.5	0	.599	120		49 - 165
Endosulfan sulfate	ug/L	.5	0	.665	133		26 - 164
Endrin	ug/L	.5	0	.63	126		53 - 168
Endrin aldehyde	ug/L	.5	0	.581	116		53 - 186
Endrin ketone	ug/L	.5	0	.658	132		31 - 169
Heptachlor	ug/L	.5	0	.548	110		51 - 152
Heptachlor epoxide	ug/L	.5	0	.661	132		56 - 147
Methoxychlor	ug/L	.5	0	.795	159		29 - 179
alpha-BHC	ug/L	.5	0	.581	116		45 - 162
alpha-Chlordane	ug/L	.5	0	.563	113		55 - 143
beta-BHC	ug/L	.5	0	.542	108		53 - 153
delta-BHC	ug/L	.5	0	.552	110		61 - 141
gamma-BHC (Lindane)	ug/L	.5	0	.571	114		37 - 143
gamma-Chlordane	ug/L	.5	0	.562	112		63 - 140

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

SAMPLE NO : ***224681***

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/L	.5	.507	101		9		35 - 165	0 - 40
4,4'-DDE	ug/L	.5	.62	124		4		57 - 139	0 - 40
4,4'-DDT	ug/L	.5	.653	131		7		32 - 148	0 - 40
Aldrin	ug/L	.5	.518	104		5		51 - 144	0 - 40
Dieldrin	ug/L	.5	.61	122		2		59 - 169	0 - 40
Endosulfan I	ug/L	.5	.486	97		3		45 - 159	0 - 40
Endosulfan II	ug/L	.5	.603	121		.7		49 - 165	0 - 40
Endosulfan sulfate	ug/L	.5	.685	137		3		26 - 164	0 - 40
Endrin	ug/L	.5	.661	132		5		53 - 168	0 - 40
Endrin aldehyde	ug/L	.5	.661	132		13		53 - 186	0 - 40
Endrin ketone	ug/L	.5	.683	137		4		31 - 169	0 - 40
Heptachlor	ug/L	.5	.602	120		9		51 - 152	0 - 40
Heptachlor epoxide	ug/L	.5	.614	123		7		56 - 147	0 - 40
Methoxychlor	ug/L	.5	.842	168		6		29 - 179	0 - 40
alpha-BHC	ug/L	.5	.604	121		4		45 - 162	0 - 40
alpha-Chlordane	ug/L	.5	.576	115		2		55 - 143	0 - 40
beta-BHC	ug/L	.5	.573	115		6		53 - 153	0 - 40
delta-BHC	ug/L	.5	.575	115		4		61 - 141	0 - 40
gamma-BHC (Lindane)	ug/L	.5	.602	120		5		37 - 143	0 - 40
gamma-Chlordane	ug/L	.5	.575	115		2		63 - 140	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC1W050217 (TCLP)

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

Spike HSN : 224682

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Endrin	ug/L	5	0	5.53	111		42 - 139
Heptachlor	ug/L	5	0	5.05	101		35 - 130
Heptachlor epoxide	ug/L	5	0	5.07	101		37 - 142
Methoxychlor	ug/L	5	0	6.59	132		26 - 144
gamma-BHC (Lindane)	ug/L	5	0	5.3	106		46 - 127

Spike Dupe HSN : 224683

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Endrin	ug/L	5	5.88	118		6		42 - 139	0 - 40
Heptachlor	ug/L	5	5.95	119		16		35 - 130	0 - 40
Heptachlor epoxide	ug/L	5	5.33	107		5		37 - 142	0 - 40
Methoxychlor	ug/L	5	6.69	134		2		26 - 144	0 - 40
gamma-BHC (Lindane)	ug/L	5	5.48	110		3		46 - 127	0 - 40

RPD : 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224679

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224679

SAS No.: SDG No.: 205021806

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/28/05 Time (1): 1705

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224680	224680	02/28/05	1724		
2.	LCSD224681	224681	02/28/05	1753		
3.	05283WC1W050217 (TCLP)	20502180602	03/01/05	0012		
4.	05283WC1W050217 (...MS	224682	03/01/05	0030		
5.	05283WC1W050217 ...MSD	224683	03/01/05	0049		
6.	05283WC4W050217 (TCLP)	20502180604	03/01/05	0108		
7.	05283WC2W050217	20502180605	03/01/05	1046		

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15.i/2050226.b/sv15015.d
Level 2: /var/chem/gcsv15.i/2050226.b/sv15016.d
Level 3: /var/chem/gcsv15.i/2050226.b/sv15017.d
Level 4: /var/chem/gcsv15.i/2050226.b/sv15018.d
Level 5: /var/chem/gcsv15.i/2050226.b/sv15019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	5802750	5871322	6239122	4605727	6271058	5757996	11.770
	3 gamma-BHC (Lindane)	5404696	5249965	5534554	4797525	5562808	5309910	5.877
	4 Heptachlor	5666752	5735025	6235057	5732132	5844931	5842780	3.910
	5 Aldrin	5155331	4774825	5007626	4540801	4991157	4893948	4.895
	6 beta-BHC	2774555	2471670	2589879	2623242	2582699	2608409	4.179
	7 delta-BHC	3964169	3828655	3773808	3185480	4295974	3809617	10.595
	8 Heptachlor epoxide	4547818	4410898	4455664	3972812	4430949	4363628	5.149
	9 Endosulfan I	3840572	4154514	4224247	3866976	4198292	4056920	4.618
	10 gamma-Chlordane	4575698	4688534	4610682	4073454	4619873	4513648	5.527
	11 alpha-Chlordane	4350575	4342060	4367285	3690925	4410230	4232215	7.177
	12 4,4'-DDE	4464808	4488272	4539022	3893551	4536355	4384402	6.300
	13 Dieldrin	4570829	4533114	4628729	4020759	4626206	4475927	5.755
	14 Endrin	3567297	3509706	3523031	2994213	3608372	3440524	7.339
	15 4,4'-DDD	3774601	3870738	3888849	3255059	3868792	3731608	7.239
	16 Endosulfan II	3784764	3813586	3835173	3324613	3849339	3721495	5.997
	17 4,4'-DDT	3097663	3160207	3201611	2655680	3322684	3087569	8.260
	18 Endrin aldehyde	2910471	2920386	2869436	2422833	2860322	2796690	7.529
	19 Methoxychlor	1615778	1569794	1544233	1233379	1578317	1508300	10.330
	20 Endosulfan sulfate	3199384	3252535	3234710	2655262	3293024	3126983	8.502
	21 Endrin ketone	3614249	3641770	3724348	3034988	3764365	3555944	8.366
M	23 AR 1016-AVG	919936	888675	823360	799592	761575	838628	7.730
	24 AR 1016-PEAK1	90013	85247	74285	90000	78498	83609	8.406
	25 AR 1016-PEAK2	236792	226822	208395	192418	183532	209592	10.701
	26 AR 1016-PEAK3	442021	434422	407148	389615	377020	410045	6.825
	27 AR 1016-PEAK4	151111	142185	133532	127559	122524	135382	8.451
M	28 AR 1260-AVG	1118071	1075783	1046151	1048428	1035070	1064701	3.136

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	150819	138101	137412	133017	127159	137302	6.356
	30 AR 1260-PEAK2	230317	219555	209237	204625	202710	213289	5.410
	31 AR 1260-PEAK3	269488	259130	249622	248733	244939	254382	3.904
	32 AR 1260-PEAK4	467448	458996	449880	462052	460262	459728	1.388
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	208008	+++++	+++++	208008	0.000
	38 AR 1221-PEAK1	+++++	+++++	13645	+++++	+++++	13645	0.000
	39 AR 1221-PEAK2	+++++	+++++	57875	+++++	+++++	57875	0.000
	40 AR 1221-PEAK3	+++++	+++++	34874	+++++	+++++	34874	0.000
	41 AR 1221-PEAK4	+++++	+++++	101614	+++++	+++++	101614	0.000
M	42 AR 1232-AVG	+++++	+++++	443847	+++++	+++++	443847	0.000
	43 AR 1232-PEAK1	+++++	+++++	101958	+++++	+++++	101958	0.000
	44 AR 1232-PEAK2	+++++	+++++	102998	+++++	+++++	102998	0.000
	45 AR 1232-PEAK3	+++++	+++++	173802	+++++	+++++	173802	0.000
	46 AR 1232-PEAK4	+++++	+++++	65088	+++++	+++++	65088	0.000
M	47 AR 1242-AVG	+++++	+++++	687204	+++++	+++++	687204	0.000
	48 AR 1242-PEAK1	+++++	+++++	65267	+++++	+++++	65267	0.000
	49 AR 1242-PEAK2	+++++	+++++	169829	+++++	+++++	169829	0.000
	50 AR 1242-PEAK3	+++++	+++++	329133	+++++	+++++	329133	0.000
	51 AR 1242-PEAK4	+++++	+++++	122975	+++++	+++++	122975	0.000
M	52 AR 1248-AVG	+++++	+++++	554539	+++++	+++++	554539	0.000
	53 AR 1248-PEAK1	+++++	+++++	78876	+++++	+++++	78876	0.000
	54 AR 1248-PEAK2	+++++	+++++	115836	+++++	+++++	115836	0.000
	55 AR 1248-PEAK3	+++++	+++++	156564	+++++	+++++	156564	0.000
	56 AR 1248-PEAK4	+++++	+++++	203263	+++++	+++++	203263	0.000
M	57 AR 1254-AVG	+++++	+++++	731294	+++++	+++++	731294	0.000
	58 AR 1254-PEAK1	+++++	+++++	78204	+++++	+++++	78204	0.000
	59 AR 1254-PEAK2	+++++	+++++	141400	+++++	+++++	141400	0.000
	60 AR 1254-PEAK3	+++++	+++++	290981	+++++	+++++	290981	0.000
	61 AR 1254-PEAK4	+++++	+++++	220709	+++++	+++++	220709	0.000

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	574543	574543	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	104230	104230	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	139641	139641	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	152774	152774	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	177898	177898	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	1514276	1514276	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	199504	199504	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	221659	221659	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	510430	510430	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	448048	448048	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	134635	134635	0.000
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	6163952	4909541	4768677	4214094	5835291	5178311	15.488
$	22 Decachlorobiphenyl	3588431	3237012	3157804	2482357	3274882	3148097	12.915

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:26
End Cal Date	: 26-FEB-2005 17:42
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date	: 04-Mar-2005 10:46 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.18817186                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15.i/2050226.b/sv15022.d
Report Date: 26-Feb-2005 19:16

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: 8081icv.spk
Sublist File: 8081.sub
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	69	114.86	85-115
3 gamma-BHC (Lindane	60	64	107.49	85-115
6 beta-BHC	60	62	103.83	85-115
4 Heptachlor	60	63	104.63	85-115
7 delta-BHC	60	64	106.83	85-115
5 Aldrin	60	65	107.91	85-115
8 Heptachlor epoxide	60	65	107.77	85-115
10 gamma-Chlordane	60	61	102.28	85-115
11 alpha-Chlordane	60	61	102.08	85-115
9 Endosulfan I	60	64	107.26	85-115
12 4,4'-DDE	60	64	105.84	85-115
13 Dieldrin	60	65	107.92	85-115
14 Endrin	60	64	106.76	85-115
15 4,4'-DDD	60	65	108.87	85-115
16 Endosulfan II	60	63	105.61	85-115
17 4,4'-DDT	60	63	105.58	85-115
18 Endrin aldehyde	60	59	98.43	85-115
20 Endosulfan sulfate	60	64	107.19	85-115
19 Methoxychlor	60	65	108.14	85-115
21 Endrin ketone	60	65	108.38	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xyl	500	0.0	*	45-148
$ 22 Decachlorobiphenyl	500	0.0	*	34-135

Data File: /var/chem/gcsv15.i/2050228p.b/sv15053.d
Report Date: 01-Mar-2005 12:51

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15053.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 08:33
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	5178311	5614165	0.010	-8.41692	15.00000	Averaged	
2 alpha-BHC	5757996	5715896	0.010	0.73115	15.00000	Averaged	
3 gamma-BHC (Lindane)	5309910	5034355	0.010	5.18944	15.00000	Averaged	
6 beta-BHC	2608409	2294290	0.010	12.04256	15.00000	Averaged	
7 delta-BHC	3809617	4010007	0.010	-5.26010	15.00000	Averaged	
4 Heptachlor	5842780	5480631	0.010	6.19823	15.00000	Averaged	
5 Aldrin	4893948	4381608	0.010	10.46884	15.00000	Averaged	
8 Heptachlor epoxide	4363628	3914241	0.010	10.29848	15.00000	Averaged	
10 gamma-Chlordane	4513648	3969737	0.010	12.05037	15.00000	Averaged	
11 alpha-Chlordane	4232215	3761869	0.010	11.11347	15.00000	Averaged	
9 Endosulfan I	4056920	3729580	0.010	8.06869	15.00000	Averaged	
12 4,4'-DDE	4384402	4054922	0.010	7.51482	15.00000	Averaged	
13 Dieldrin	4475927	4192380	0.010	6.33494	15.00000	Averaged	
14 Endrin	3440524	3341532	0.010	2.87724	15.00000	Averaged	
15 4,4'-DDD	3731608	3626029	0.010	2.82930	15.00000	Averaged	
16 Endosulfan II	3721495	3471885	0.010	6.70726	15.00000	Averaged	
18 Endrin aldehyde	2796690	2624843	0.010	6.14466	15.00000	Averaged	
17 4,4'-DDT	3087569	2908120	0.010	5.81198	15.00000	Averaged	
20 Endosulfan sulfate	3126983	3153821	0.010	-0.85826	15.00000	Averaged	
19 Methoxychlor	1508300	1585825	0.010	-5.13986	15.00000	Averaged	
21 Endrin ketone	3555944	3649101	0.010	-2.61975	15.00000	Averaged	
$ 22 Decachlorobiphenyl	3148097	2485608	0.010	21.04412	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 7.16911
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15059.d
Report Date: 01-Mar-2005 15:03

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15059.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 11:23
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	5178311	6056664	0.010	-16.96215	15.00000	Averaged	<-
2 alpha-BHC	5757996	6425897	0.010	-11.59955	15.00000	Averaged	
3 gamma-BHC (Lindane)	5309910	5666838	0.010	-6.72193	15.00000	Averaged	
6 beta-BHC	2608409	2691426	0.010	-3.18265	15.00000	Averaged	
7 delta-BHC	3809617	3310994	0.010	13.08853	15.00000	Averaged	
4 Heptachlor	5842780	6240090	0.010	-6.80003	15.00000	Averaged	
5 Aldrin	4893948	4924756	0.010	-0.62952	15.00000	Averaged	
8 Heptachlor epoxide	4363628	4299728	0.010	1.46439	15.00000	Averaged	
10 gamma-Chlordane	4513648	4328460	0.010	4.10285	15.00000	Averaged	
11 alpha-Chlordane	4232215	4012153	0.010	5.19969	15.00000	Averaged	
9 Endosulfan I	4056920	3951058	0.010	2.60943	15.00000	Averaged	
12 4,4'-DDE	4384402	4298886	0.010	1.95046	15.00000	Averaged	
13 Dieldrin	4475927	4449961	0.010	0.58013	15.00000	Averaged	
14 Endrin	3440524	3394703	0.010	1.33179	15.00000	Averaged	
15 4,4'-DDD	3731608	3906922	0.010	-4.69808	15.00000	Averaged	
16 Endosulfan II	3721495	3732408	0.010	-0.29324	15.00000	Averaged	
18 Endrin aldehyde	2796690	2662517	0.010	4.79757	15.00000	Averaged	
17 4,4'-DDT	3087569	2846557	0.010	7.80590	15.00000	Averaged	
20 Endosulfan sulfate	3126983	3236236	0.010	-3.49389	15.00000	Averaged	
19 Methoxychlor	1508300	1455068	0.010	3.52933	15.00000	Averaged	
21 Endrin ketone	3555944	3622882	0.010	-1.88244	15.00000	Averaged	
$ 22 Decachlorobiphenyl	3148097	2504588	0.010	20.44120	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 5.59840
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 04-Mar-2005 11:08 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15b.i/2050226.b/sv15b015.d
Level 2: /var/chem/gcsv15b.i/2050226.b/sv15b016.d
Level 3: /var/chem/gcsv15b.i/2050226.b/sv15b017.d
Level 4: /var/chem/gcsv15b.i/2050226.b/sv15b018.d
Level 5: /var/chem/gcsv15b.i/2050226.b/sv15b019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	2 alpha-BHC	12144604	12710175	12680362	12533618	12386289	12491010	1.863
	3 gamma-BHC (Lindane)	11057675	11400469	11241527	11065569	10941651	11141378	1.617
	4 Heptachlor	7883439	8571668	8494849	8359996	8400248	8342040	3.228
	5 Aldrin	10045457	10160034	9734624	9559232	9369377	9773745	3.371
	6 beta-BHC	5372555	5195359	5186473	4962726	4904981	5124419	3.712
	7 delta-BHC	10763796	11187742	11126167	10979606	10839720	10979406	1.648
	8 Heptachlor epoxide	10460643	9089150	8555353	8345266	8202336	8930550	10.293
	9 Endosulfan I	10489870	8868454	8110673	7930935	7812554	8642497	12.861
	10 gamma-Chlordane	9313725	9311513	9023671	8857525	8770767	9055440	2.780
	11 alpha-Chlordane	9241864	9051515	8785471	8607979	8495467	8836459	3.496
	12 4,4'-DDE	9355584	9026156	8512565	8309587	8263272	8693433	5.499
	13 Dieldrin	9389390	9231903	8721419	8532012	8453158	8865576	4.755
	14 Endrin	7089224	6950149	6615502	6363260	6459144	6695456	4.679
	15 4,4'-DDD	6019792	7672318	7426177	7278403	7186459	7116630	8.994
	16 Endosulfan II	7696972	7493142	7109214	6923354	6922797	7229096	4.843
	17 4,4'-DDT	5396069	5943688	6032168	5828923	6075455	5855261	4.671
	18 Endrin aldehyde	6030436	5954979	5645092	5494688	5508176	5726674	4.388
	19 Methoxychlor	2800314	2896692	2865059	2739946	2898251	2840052	2.415
	20 Endosulfan sulfate	6628193	6604678	6357094	6182901	6214827	6397538	3.290
	21 Endrin ketone	7322552	7378886	7243522	7139042	7182989	7253398	1.355
M	23 AR 1016-AVG	1133234	1096678	1001206	906064	820442	991525	13.131
	24 AR 1016-PEAK1	205922	207366	184899	184091	161031	188662	10.079
	25 AR 1016-PEAK2	274177	255840	240636	202397	191798	232970	15.038
	26 AR 1016-PEAK3	391525	373862	333550	305047	263808	333558	15.478
	27 AR 1016-PEAK4	261610	259609	242121	214529	203805	236335	11.090
M	28 AR 1260-AVG	2487280	2413448	2284583	2089372	2111422	2277221	7.779

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 04-Mar-2005 11:08 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	480265	461384	426641	386211	380030	426906	10.403
	30 AR 1260-PEAK2	552355	536442	502033	456855	455500	500637	8.884
	31 AR 1260-PEAK3	600885	574998	542732	496292	499133	542808	8.483
	32 AR 1260-PEAK4	853775	840624	813177	750014	776759	806870	5.373
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	511429	+++++	+++++	511429	0.000
	38 AR 1221-PEAK1	+++++	+++++	78512	+++++	+++++	78512	0.000
	39 AR 1221-PEAK2	+++++	+++++	109288	+++++	+++++	109288	0.000
	40 AR 1221-PEAK3	+++++	+++++	71563	+++++	+++++	71563	0.000
	41 AR 1221-PEAK4	+++++	+++++	252066	+++++	+++++	252066	0.000
M	42 AR 1232-AVG	+++++	+++++	534969	+++++	+++++	534969	0.000
	43 AR 1232-PEAK1	+++++	+++++	227048	+++++	+++++	227048	0.000
	44 AR 1232-PEAK2	+++++	+++++	70641	+++++	+++++	70641	0.000
	45 AR 1232-PEAK3	+++++	+++++	146973	+++++	+++++	146973	0.000
	46 AR 1232-PEAK4	+++++	+++++	90308	+++++	+++++	90308	0.000
M	47 AR 1242-AVG	+++++	+++++	814185	+++++	+++++	814185	0.000
	48 AR 1242-PEAK1	+++++	+++++	146859	+++++	+++++	146859	0.000
	49 AR 1242-PEAK2	+++++	+++++	191545	+++++	+++++	191545	0.000
	50 AR 1242-PEAK3	+++++	+++++	269231	+++++	+++++	269231	0.000
	51 AR 1242-PEAK4	+++++	+++++	206550	+++++	+++++	206550	0.000
M	52 AR 1248-AVG	+++++	+++++	1169121	+++++	+++++	1169121	0.000
	53 AR 1248-PEAK1	+++++	+++++	210052	+++++	+++++	210052	0.000
	54 AR 1248-PEAK2	+++++	+++++	275405	+++++	+++++	275405	0.000
	55 AR 1248-PEAK3	+++++	+++++	298651	+++++	+++++	298651	0.000
	56 AR 1248-PEAK4	+++++	+++++	385014	+++++	+++++	385014	0.000
M	57 AR 1254-AVG	+++++	+++++	1463965	+++++	+++++	1463965	0.000
	58 AR 1254-PEAK1	+++++	+++++	178390	+++++	+++++	178390	0.000
	59 AR 1254-PEAK2	+++++	+++++	281362	+++++	+++++	281362	0.000
	60 AR 1254-PEAK3	+++++	+++++	526821	+++++	+++++	526821	0.000
	61 AR 1254-PEAK4	+++++	+++++	477393	+++++	+++++	477393	0.000

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 04-Mar-2005 11:08 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	845561	845561	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	172884	172884	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	186350	186350	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	255915	255915	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	230412	230412	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	2867373	2867373	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	401568	401568	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	421259	421259	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	1177484	1177484	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	867063	867063	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	11657127	11604669	11175543	11023841	10730723	11238381	3.495
$	22 Decachlorobiphenyl	6139163	5750432	5646283	5515756	5694429	5749213	4.081

Report Date : 04-Mar-2005 13:47

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:44
End Cal Date	: 26-FEB-2005 18:00
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date	: 04-Mar-2005 11:08 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.34600448                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15b.i/2050226.b/sv15b022.d
Report Date: 26-Feb-2005 19:20

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: 8081icv.spk
Sublist File: 8081.sub
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	65	108.61	85-115
3 gamma-BHC (Lindane	60	63	105.02	85-115
6 beta-BHC	60	62	102.51	85-115
4 Heptachlor	60	64	106.30	85-115
7 delta-BHC	60	60	100.77	85-115
5 Aldrin	60	63	104.72	85-115
8 Heptachlor epoxide	60	60	99.87	85-115
10 gamma-Chlordane	60	60	99.34	85-115
11 alpha-Chlordane	60	59	98.01	85-115
9 Endosulfan I	60	57	94.84	85-115
12 4,4'-DDE	60	62	102.73	85-115
13 Dieldrin	60	63	104.99	85-115
14 Endrin	60	64	107.24	85-115
15 4,4'-DDD	60	67	111.17	85-115
16 Endosulfan II	60	63	104.48	85-115
17 4,4'-DDT	60	67	111.11	85-115
18 Endrin aldehyde	60	61	101.37	85-115
20 Endosulfan sulfate	60	65	107.90	85-115
19 Methoxychlor	60	68	113.72	85-115
21 Endrin ketone	60	65	108.18	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xyl	500	0.0	*	45-148
$ 22 Decachlorobiphenyl	500	0.0	*	34-135

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b002.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b002.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 14:50
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10943375	0.010	2.62498	15.00000	Averaged
2 alpha-BHC	12491010	12313609	0.010	1.42022	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10901736	0.010	2.15092	15.00000	Averaged
6 beta-BHC	5124419	4845088	0.010	5.45098	15.00000	Averaged
7 delta-BHC	10979406	10638569	0.010	3.10433	15.00000	Averaged
4 Heptachlor	8342040	9125885	0.010	-9.39632	15.00000	Averaged
5 Aldrin	9773745	9492948	0.010	2.87297	15.00000	Averaged
8 Heptachlor epoxide	8930550	8416123	0.010	5.76030	15.00000	Averaged
10 gamma-Chlordane	9055440	8850911	0.010	2.25863	15.00000	Averaged
11 alpha-Chlordane	8836459	8540396	0.010	3.35047	15.00000	Averaged
9 Endosulfan I	8642497	8091196	0.010	6.37896	15.00000	Averaged
12 4,4'-DDE	8693433	8386429	0.010	3.53145	15.00000	Averaged
13 Dieldrin	8865576	8632669	0.010	2.62710	15.00000	Averaged
14 Endrin	6695456	6755928	0.010	-0.90318	15.00000	Averaged
15 4,4'-DDD	7116630	6992959	0.010	1.73777	15.00000	Averaged
16 Endosulfan II	7229096	7107210	0.010	1.68604	15.00000	Averaged
18 Endrin aldehyde	5726674	5612945	0.010	1.98595	15.00000	Averaged
17 4,4'-DDT	5855261	6635672	0.010	-13.32838	15.00000	Averaged
20 Endosulfan sulfate	6397538	6552174	0.010	-2.41712	15.00000	Averaged
19 Methoxychlor	2734565	3128539	0.010	-14.40717	15.00000	Averaged
21 Endrin ketone	7253398	7636508	0.010	-5.28179	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	5993406	0.010	-4.24743	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.40557
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b015.d
Report Date: 01-Mar-2005 15:09

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b015.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 20:50
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10960137	0.010	2.47583	15.00000	Averaged
2 alpha-BHC	12491010	12380769	0.010	0.88256	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10981223	0.010	1.43748	15.00000	Averaged
6 beta-BHC	5124419	4874039	0.010	4.88602	15.00000	Averaged
7 delta-BHC	10979406	10811395	0.010	1.53024	15.00000	Averaged
4 Heptachlor	8342040	9025763	0.010	-8.19611	15.00000	Averaged
5 Aldrin	9773745	9493495	0.010	2.86737	15.00000	Averaged
8 Heptachlor epoxide	8930550	8387078	0.010	6.08553	15.00000	Averaged
10 gamma-Chlordane	9055440	8778287	0.010	3.06063	15.00000	Averaged
11 alpha-Chlordane	8836459	8530104	0.010	3.46695	15.00000	Averaged
9 Endosulfan I	8642497	7935121	0.010	8.18486	15.00000	Averaged
12 4,4'-DDE	8693433	8331000	0.010	4.16904	15.00000	Averaged
13 Dieldrin	8865576	8598030	0.010	3.01781	15.00000	Averaged
14 Endrin	6695456	6731603	0.010	-0.53989	15.00000	Averaged
15 4,4'-DDD	7116630	7120632	0.010	-0.05624	15.00000	Averaged
16 Endosulfan II	7229096	7089287	0.010	1.93398	15.00000	Averaged
18 Endrin aldehyde	5726674	5667485	0.010	1.03357	15.00000	Averaged
17 4,4'-DDT	5855261	6604096	0.010	-12.78910	15.00000	Averaged
20 Endosulfan sulfate	6397538	6559753	0.010	-2.53558	15.00000	Averaged
19 Methoxychlor	2734565	3140376	0.010	-14.84004	15.00000	Averaged
21 Endrin ketone	7253398	7627080	0.010	-5.15181	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	6090176	0.010	-5.93061	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.32142
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b019.d
Report Date: 01-Mar-2005 15:09

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b019.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 22:39
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	11238381	10996639	0.010	2.15104	15.00000	Averaged	
2 alpha-BHC	12491010	12440950	0.010	0.40076	15.00000	Averaged	
3 gamma-BHC (Lindane)	11141378	11095690	0.010	0.41008	15.00000	Averaged	
6 beta-BHC	5124419	4918671	0.010	4.01505	15.00000	Averaged	
7 delta-BHC	10979406	10562950	0.010	3.79307	15.00000	Averaged	
4 Heptachlor	8342040	9022531	0.010	-8.15737	15.00000	Averaged	
5 Aldrin	9773745	9543691	0.010	2.35379	15.00000	Averaged	
8 Heptachlor epoxide	8930550	8416855	0.010	5.75211	15.00000	Averaged	
10 gamma-Chlordane	9055440	8815404	0.010	2.65075	15.00000	Averaged	
11 alpha-Chlordane	8836459	8566926	0.010	3.05024	15.00000	Averaged	
9 Endosulfan I	8642497	7989865	0.010	7.55143	15.00000	Averaged	
12 4,4'-DDE	8693433	8444992	0.010	2.85780	15.00000	Averaged	
13 Dieldrin	8865576	8692376	0.010	1.95363	15.00000	Averaged	
14 Endrin	6695456	6823974	0.010	-1.91948	15.00000	Averaged	
15 4,4'-DDD	7116630	7134808	0.010	-0.25543	15.00000	Averaged	
16 Endosulfan II	7229096	7157408	0.010	0.99166	15.00000	Averaged	
18 Endrin aldehyde	5726674	5740254	0.010	-0.23712	15.00000	Averaged	
17 4,4'-DDT	5855261	6715655	0.010	-14.69437	15.00000	Averaged	
20 Endosulfan sulfate	6397538	6601804	0.010	-3.19288	15.00000	Averaged	
19 Methoxychlor	2734565	3158004	0.010	-15.48469	15.00000	Averaged	<-
21 Endrin ketone	7253398	7700362	0.010	-6.16213	15.00000	Averaged	
$ 22 Decachlorobiphenyl	5749213	6126188	0.010	-6.55700	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 4.29963
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b033.d
Report Date: 01-Mar-2005 15:10

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b033.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 01-MAR-2005 02:59
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10913819	0.010	2.88798	15.00000	Averaged
2 alpha-BHC	12491010	12393866	0.010	0.77771	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10955076	0.010	1.67217	15.00000	Averaged
6 beta-BHC	5124419	4876063	0.010	4.84653	15.00000	Averaged
7 delta-BHC	10979406	10767631	0.010	1.92884	15.00000	Averaged
4 Heptachlor	8342040	9090875	0.010	-8.97664	15.00000	Averaged
5 Aldrin	9773745	9484242	0.010	2.96204	15.00000	Averaged
8 Heptachlor epoxide	8930550	8362477	0.010	6.36100	15.00000	Averaged
10 gamma-Chlordane	9055440	8749315	0.010	3.38056	15.00000	Averaged
11 alpha-Chlordane	8836459	8525642	0.010	3.51744	15.00000	Averaged
9 Endosulfan I	8642497	7898209	0.010	8.61196	15.00000	Averaged
12 4,4'-DDE	8693433	8268863	0.010	4.88381	15.00000	Averaged
13 Dieldrin	8865576	8565728	0.010	3.38217	15.00000	Averaged
14 Endrin	6695456	6652278	0.010	0.64488	15.00000	Averaged
15 4,4'-DDD	7116630	7218918	0.010	-1.43732	15.00000	Averaged
16 Endosulfan II	7229096	7019235	0.010	2.90300	15.00000	Averaged
18 Endrin aldehyde	5726674	5587863	0.010	2.42394	15.00000	Averaged
17 4,4'-DDT	5855261	6202007	0.010	-5.92197	15.00000	Averaged
20 Endosulfan sulfate	6397538	6437453	0.010	-0.62390	15.00000	Averaged
19 Methoxychlor	2734565	3004764	0.010	-9.88085	15.00000	Averaged
21 Endrin ketone	7253398	7565156	0.010	-4.29809	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	5979731	0.010	-4.00956	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.92420
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2/22/05 1100	BATCH NO:	287817
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 287817 [EXTO/7100]	224679	1000	10.0	7	8081	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287817 [EXTO/7100]	224680	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287817 [EXTO/7100	224681	1000	10.0	7		SEPARATORY FUNNEL/3510 ✓
4	4380	05283WC2W050217	20502180605	1000	10.0	7		
5	4380	05283LOP050217	20502180505	1000	10.0	7		GPC CLEANUP/3640
6	4380	05283WC1W050217 (TCLP)	20502180602	100	10.0	7		
7	QC ACCOUNT	05283WC1W050217 (... (224286MS)	224682	100	10.0	7		SONICATOR/3550
8	QC ACCOUNT	05283WC1W050217 ... (224286MSD)	224683	100	10.0	7		
9	4380	05283WC4W050217 (TCLP)	20502180604	100	10.0	7		FLORISIL CLEANUP/3620
10	1996	NORTH PLANT SLUDGE (TCLP)	20502172209	100	10.0	7		
11			321+BIK	100	10.0	7		PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No:
20								
21								ACETONE LOT NO:
22								
23								MECL2 Lot No:
24								045514
25								HEXANE Lot No.
26								
27								Sodium Sulfate Lot No:
28								044031

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	4-9-9	8081 SPIKE ID		608 SPIKE ID	4-4-3	TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME		VOLUME	0.5mL	Dianne Bates	2/22/05
CONCENTRATION	0.5ug/ml	CONCENTRATION		CONCENTRATION	1.0ug/ml		
ACID						SUPERVISOR	DATE
SPIKE WITNESS						John Bailey	02/22/05

TCLP EXTRACTIONS

DATE: 2/16/5

BATCH # 287681

ANALYST: GLJ

Sample Number:	216+BLK	20502164301	20502163501				
Sample Description		Mud	ROCK				
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓				
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓				
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0				
Actual volume of water (96.5± 1mL)		97	97				
Initial pH (After 5 min. mixing) "pH-1"		855	244				
√ If pH >5, if 3.5 mL 1N HCl added		✓					
√ If heated and held at 50°C for 10 minutes		✓					
Second pH "pH-2"		147					
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓				
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓				
Weight of Solids to be Extracted (X)		100	100				
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000	2000				
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700	1700				
Stop Time	900	900	900				
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	5.45	3.11				

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-1A-2

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

000221

000039

DATE: 2-17-5

TCLP EXTRACTIONS

BATCH # 287703

ANALYST: JPA

Sample Number:		20502170009	0217tblk					
Sample Description		sludge	Ext.1					
1.VISUAL SAMPLE EVALUATION								
100% solid (Skip to 3)*	(√)	√						
Sample is <100%	(√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)								
Filter Weight	(F)							
Filtrate Vessel Weight	(V)							
Subsample Weight (100 g minimum)	(S)							
Weight of Liquid Phase (V+liquid)-V	(L)							
Weight of Solid Phase (S-L)	(SP)							
% Solids (SP/S) x 100 *	(%S)							
%Dry Solids = [(Dried SP-F)/S] x 100*	(%DS)							
3.EXTRACTION FLUID DETERMINATION								
Particle Size Reduced (app. 1mm)	(√)	√						
Actual Weight of subsample (5.0± 0.1g)		5.0						
Actual volume of water (96.5± 1mL)		97						
Initial pH (After 5 min. mixing)	"pH-1"	6.72						
√ If pH >5, if 3.5 mL 1N HCl added		√						
√ If heated and held at 50°C for 10 minutes		√						
Second pH	"pH-2"	1.18						
If pH-1 or pH-2 <5.0 use Fluid 1	(√)	√						
If pH-2 >5.0 use Fluid 11	(√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*								
Particle Size Reduced (95. mm max)	(√)	√						
Weight of Solids to be Extracted	(X)	100						
Filtrate Vessel Weight (multiphasic)	(EV)							
Weight of Filtrate + Vessel (multiphasic)	(EF)							
Amount of Fluid Needed = 20 x X		2000	2000					
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)								
Start Time		1700	1700					
Stop Time		900	900					
6. FINAL TCLP EXTRACT								
If the phases will be analyzed separately, determine the volume of each phase:								
Volume Extract obtained in Step 5 (EF-EV)								
Volume filtrate from Step 4 (L)								
pH of TCLP Extract (If two phase,record pH for each phase)		4.97	4.89					

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 23.0

EXTRACTION FLUID #1 pH and ID: 131-64-2 (4.90)

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

0002222

TCLP EXTRACTIONS

DATE: 2-21-5 BATCH # 287815 ANALYST: GCJ

Sample Number:	221TB1K	20502180602	20502180604	20502151401	20502180301	20502211902	
Sample Description	MB	Soil/Sand	Soil/Sand	RESIN	Sticks	CARBON	
1. VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓	✓	✓	✓	
Sample is <100% (√)							
2. FILTRATION (Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)				VOID			
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3. EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓	✓	✓	✓	
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0	5.0	5.0	5.0	
Actual volume of water (96.5± 1mL)		97	97	97	97	97	
Initial pH (After 5 min. mixing) "pH-1"		867	931	929	458	653	
√ If pH >5, if 3.5 mL 1N HCl added		✓	✓	✓		✓	
√ If heated and held at 50°C for 10 minutes		✓	✓	✓		✓	
Second pH "pH-2"		155	157	179		138	
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓	✓	✓	✓	
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓		✓	✓	
Weight of Solids to be Extracted (X)							
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X							
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1600	1600	1600	1600	1600	1600	
Stop Time	800	800	800	800	800	800	
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase, record pH for each phase)	500	630	634		490	511	

*** If sample is <0.5 %S or <0.5 %DS; Filter sample, collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 20.5 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-64-3 497

EXTRACTION FLUID #2 pH and ID:

Secondary Review:

000223

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/04/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050226.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15001.d	26-FEB-2005 11:59	1.000	tls	
1201		sv15002.d	26-FEB-2005 12:26	1.000	tls	
1202		sv15003.d	26-FEB-2005 12:44	1.000	tls	
1203		sv15004.d	26-FEB-2005 13:03	1.000	tls	
1204		sv15005.d	26-FEB-2005 13:21	1.000	tls	
1205		sv15006.d	26-FEB-2005 13:40	1.000	tls	
1600		sv15007.d	26-FEB-2005 13:59	1.000	tls	
1205		sv15008.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15009.d	26-FEB-2005 14:36	1.000	tls	
1203		sv15010.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15011.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15012.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15013.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15014.d	26-FEB-2005 16:09	1.000	tls	
1201		sv15015.d	26-FEB-2005 16:27	1.000	tls	
1202		sv15016.d	26-FEB-2005 16:46	1.000	tls	
1203		sv15017.d	26-FEB-2005 17:05	1.000	tls	
1204		sv15018.d	26-FEB-2005 17:23	1.000	tls	
1205		sv15019.d	26-FEB-2005 17:42	1.000	tls	
1600		sv15020.d	26-FEB-2005 18:00	1.000	tls	
DEG		sv15021.d	26-FEB-2005 18:19	1.000	tls	
1600		sv15022.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15001.d	28-FEB-2005 14:13	1.000	tls	
1400		sv15002.d	28-FEB-2005 14:32	1.000	tls	
1400		sv15003.d	28-FEB-2005 14:50	1.000	tls	
224679/84		sv15004.d	28-FEB-2005 16:28	1.000	sjt	
224680		sv15005.d	28-FEB-2005 16:47	1.000	sjt	
224681		sv15006.d	28-FEB-2005 17:05	1.000	sjt	
224685		sv15007.d	28-FEB-2005 17:24	1.000	sjt	
224686		sv15008.d	28-FEB-2005 17:53	1.000	sjt	
224430		sv15009.d	28-FEB-2005 18:21	1.000	sjt	
224431		sv15010.d	28-FEB-2005 18:40	1.000	sjt	
224432		sv15011.d	28-FEB-2005 18:59	1.000	sjt	
224435		sv15012.d	28-FEB-2005 19:17	1.000	sjt	
224436		sv15013.d	28-FEB-2005 19:36	1.000	sjt	
1400		sv15015.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15016.d	28-FEB-2005 20:31	1.000	sjt	
224437		sv15017.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15019.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15020.d	28-FEB-2005 21:46	1.000	sjt	
1400		sv15021.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15022.d	28-FEB-2005 22:57	1.000	sjt	
20502180505		sv15023.d	28-FEB-2005 23:16	1.000	sjt	
20502180602		sv15024.d	28-FEB-2005 23:34	1.000	sjt	
224682		sv15025.d	28-FEB-2005 23:53	1.000	sjt	
224683		sv15026.d	01-MAR-2005 00:12	1.000	sjt	
20502180604		sv15027.d	01-MAR-2005 00:30	1.000	sjt	
0221tblk		sv15028.d	01-MAR-2005 00:49	1.000	sjt	
20502172209		sv15029.d	01-MAR-2005 01:08	1.000	sjt	
20502182401		sv15030.d	01-MAR-2005 01:26	1.000	sjt	
deg		sv15032.d	01-MAR-2005 02:03	1.000	sjt	
1400		sv15033.d	01-MAR-2005 02:22	1.000	sjt	
1400		sv15034.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15035.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15036.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15043.d	01-MAR-2005 05:27	1.000	sjt	
1400		sv15044.d	01-MAR-2005 05:46	1.000	sjt	
1400		sv15045.d	01-MAR-2005 06:05	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		sv15046.d	01-MAR-2005 06:23	1.000	sjt	
20502180504		sv15047.d	01-MAR-2005 06:41	10.000	sjt	
20502180504		sv15048.d	01-MAR-2005 07:00	1.000	sjt	
224433		sv15049.d	01-MAR-2005 07:19	1.000	sjt	
224434		sv15050.d	01-MAR-2005 07:37	1.000	sjt	
20502180504		sv15051.d	01-MAR-2005 07:56	1.000	sjt	
1400		sv15053.d	01-MAR-2005 08:33	1.000	sjt	
1400		sv15054.d	01-MAR-2005 08:51	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/28/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050226.b
Column-Detector: RTX-XLB

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15b001.d	26-FEB-2005 12:26	1.000	tls	
1201		sv15b002.d	26-FEB-2005 12:44	1.000	tls	
1202		sv15b003.d	26-FEB-2005 13:03	1.000	tls	
1203		sv15b004.d	26-FEB-2005 13:21	1.000	tls	
1204		sv15b005.d	26-FEB-2005 13:40	1.000	tls	
1205		sv15b006.d	26-FEB-2005 13:59	1.000	tls	
1600		sv15b007.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15b008.d	26-FEB-2005 14:36	1.000	tls	
1205		sv15b009.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15b010.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15b011.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15b012.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15b013.d	26-FEB-2005 16:09	1.000	tls	
1203		sv15b014.d	26-FEB-2005 16:27	1.000	tls	
1201		sv15b015.d	26-FEB-2005 16:46	1.000	tls	
1202		sv15b016.d	26-FEB-2005 17:05	1.000	tls	
1203		sv15b017.d	26-FEB-2005 17:23	1.000	tls	
1204		sv15b018.d	26-FEB-2005 17:42	1.000	tls	
1205		sv15b019.d	26-FEB-2005 18:00	1.000	tls	
1600		sv15b020.d	26-FEB-2005 18:19	1.000	tls	
DEG		sv15b021.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15b022.d	26-FEB-2005 18:56	1.000	tls	
1600		sv15b024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15b001.d	28-FEB-2005 14:32	1.000	sjt	
1400		sv15b002.d	28-FEB-2005 14:50	1.000	sjt	
1400		sv15b003.d	28-FEB-2005 15:09	1.000	sjt	
224684		sv15b004.d	28-FEB-2005 17:05	1.000	sjt	
224680		sv15b005.d	28-FEB-2005 17:24	1.000	sjt	
224681		sv15b006.d	28-FEB-2005 17:53	1.000	sjt	
224685		sv15b007.d	28-FEB-2005 18:21	1.000	sjt	
224686		sv15b008.d	28-FEB-2005 18:40	1.000	sjt	
224430		sv15b009.d	28-FEB-2005 18:59	1.000	sjt	
224431		sv15b010.d	28-FEB-2005 19:17	1.000	sjt	
224432		sv15b011.d	28-FEB-2005 19:36	1.000	sjt	
224435		sv15b012.d	28-FEB-2005 19:54	1.000	sjt	
224436		sv15b013.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15b015.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15b016.d	28-FEB-2005 21:09	1.000	sjt	
224437		sv15b017.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15b019.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15b020.d	28-FEB-2005 22:57	1.000	sjt	
1400		sv15b021.d	28-FEB-2005 23:16	1.000	sjt	
1400		sv15b022.d	28-FEB-2005 23:34	1.000	sjt	
20502180505		sv15b023.d	28-FEB-2005 23:53	1.000	sjt	
20502180602		sv15b024.d	01-MAR-2005 00:12	1.000	sjt	
224682		sv15b025.d	01-MAR-2005 00:30	1.000	sjt	
224683		sv15b026.d	01-MAR-2005 00:49	1.000	sjt	
20502180604		sv15b027.d	01-MAR-2005 01:08	1.000	sjt	
0221tblk		sv15b028.d	01-MAR-2005 01:26	1.000	sjt	
20502172209		sv15b029.d	01-MAR-2005 01:45	1.000	sjt	
20502182401		sv15b030.d	01-MAR-2005 02:03	1.000	sjt	
deg		sv15b032.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15b033.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15b034.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15b035.d	01-MAR-2005 03:36	1.000	sjt	
1400		sv15b036.d	01-MAR-2005 03:55	1.000	sjt	
20502180601		sv15b037.d	01-MAR-2005 04:13	1.000	sjt	
20502180603		sv15b038.d	01-MAR-2005 04:32	1.000	sjt	
224438		sv15b039.d	01-MAR-2005 04:50	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
224439		sv15b040.d	01-MAR-2005 05:09	1.000	sjt	
1400		sv15b043.d	01-MAR-2005 06:05	1.000	sjt	
1400		sv15b044.d	01-MAR-2005 06:23	1.000	sjt	
1400		sv15b045.d	01-MAR-2005 06:41	1.000	sjt	
1400		sv15b046.d	01-MAR-2005 07:00	1.000	sjt	
20502180504		sv15b047.d	01-MAR-2005 07:19	10.000	sjt	
20502180504		sv15b048.d	01-MAR-2005 07:37	1.000	sjt	
224433		sv15b049.d	01-MAR-2005 07:56	1.000	sjt	
224434		sv15b050.d	01-MAR-2005 08:14	1.000	sjt	
1400		sv15b053.d	01-MAR-2005 09:10	1.000	sjt	
1400		sv15b054.d	01-MAR-2005 09:29	1.000	sjt	
1400		sv15b055.d	01-MAR-2005 09:47	1.000	sjt	
1400		sv15b056.d	01-MAR-2005 10:06	1.000	sjt	
20502180605		sv15b057.d	01-MAR-2005 11:23	10.000	sjt	
hexane		sv15b058.d	01-MAR-2005 11:42	1.000	sjt	
1400		sv15b059.d	01-MAR-2005 12:01	1.000	sjt	
1400		sv15b060.d	01-MAR-2005 12:19	1.000	sjt	
1400		sv15b061.d	01-MAR-2005 12:38	1.000	sjt	
1400		sv15b062.d	01-MAR-2005 12:56	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Soil

Sample wt/vol: 100 Units: mL

Level: (low/med) LOW

% Moisture: decanted: (Y/N)

GC Column: DB-35MS-30 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287981 Analytical Batch: 288097

CONCENTRATION UNITS: mg/L

Sample ID: 05283WC1W050217 (TCLP)

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 20502180602

Date Collected: 02/17/05 Time: 1150

Date Received: 02/18/05

Date Extracted: 02/25/05

Date Analyzed: 02/28/05 Time: 1246

Dilution Factor: 1 Analyst: SJT

Prep Method: SW-846 3510

Analytical Method: 1311/8151

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID: 2050228/SV8015

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00500	U	0.00027	0.00500
93-72-1	2,4,5-TP (SILVEX)	0.00500	U	0.00320	0.00500

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287981 Analytical Batch: 288097

Sample ID: 05283WC4W050217 (TCLP)
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180604
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/25/05
Date Analyzed: 02/28/05 Time: 1303
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 3510
Analytical Method: 1311/8151
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

CONCENTRATION UNITS: mg/L

Lab File ID: 2050228/SV8016

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00500	U	0.00027	0.00500
93-72-1	2,4,5-TP (SILVEX)	0.00500	U	0.00320	0.00500

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287821 Analytical Batch: 287940

Sample ID: 05283WC2W050217
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 20502180605
Date Collected: 02/17/05 Time: 1215
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 02/23/05 Time: 1754
Dilution Factor: 100 Analyst: DLB
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050223P/SV8008

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	1000	U	27.0	1000
93-76-5	2,4,5-T	200	U	34.0	200
93-72-1	2,4,5-TP (SILVEX)	200	U	39.0	200

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287821 Analytical Batch: 287930

Sample ID: MB224693
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224693
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/23/05 Time: 0831
Dilution Factor: 1 Analyst: DLB
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050223/SV8002

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	10.0	U	0.270	10.0
93-76-5	2,4,5-T	2.00	U	0.340	2.00
93-72-1	2,4,5-TP (SILVEX)	2.00	U	0.390	2.00

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287981 Analytical Batch: 288097

Sample ID: MB225364
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 225364
Date Collected: Time:
Date Received:
Date Extracted: 02/25/05
Date Analyzed: 02/28/05 Time: 1103
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: 1311/8151
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050228/SV8009

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00500	U	0.00027	0.00500
93-72-1	2,4,5-TP (SILVEX)	0.00500	U	0.00320	0.00500

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287821 Analytical Batch: 287930

Sample ID: LCS224694
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224694
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/23/05 Time: 0848
Dilution Factor: 1 Analyst: DLB
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050223/SV8003

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	1.23	J	0.270	10.0
93-76-5	2,4,5-T	1.51	J	0.340	2.00
93-72-1	2,4,5-TP (SILVEX)	1.49	J	0.390	2.00

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287821 Analytical Batch: 287930

Sample ID: LCSD224695
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 224695
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/23/05 Time: 0905
Dilution Factor: 1 Analyst: DLB
Prep Method: SW-846 8151A
Analytical Method: SW-846 8151A
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

CONCENTRATION UNITS: ug/L
Lab File ID: 2050223/SV8004

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.995	J	0.270	10.0
93-76-5	2,4,5-T	1.34	J	0.340	2.00
93-72-1	2,4,5-TP (SILVEX)	1.41	J	0.390	2.00

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: DB-35MS-30 ID: .53 (mm)

Concentrated Extract Volume: 10000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 287981 Analytical Batch: 288097

CONCENTRATION UNITS: mg/L

Sample ID: LCS225365

Contract:

SAS No.: SDG No.: 205021806

Lab Sample ID: 225365

Date Collected: Time:

Date Received:

Date Extracted: 02/25/05

Date Analyzed: 02/28/05 Time: 1120

Dilution Factor: 1 Analyst: SJT

Prep Method: SW-846 8151A

Analytical Method: 1311/8151

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID: 2050228/SV8010

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00110	J	0.00027	0.00500
93-72-1	2,4,5-TP (SILVEX)	0.00500	U	0.00320	0.00500

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: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287981 Analytical Batch: 288097

Sample ID: LCSD225366
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 225366
Date Collected: Time:
Date Received:
Date Extracted: 02/25/05
Date Analyzed: 02/28/05 Time: 1137
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: 1311/8151
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050228/SV8011

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00105	J	0.00027	0.00500
93-72-1	2,4,5-TP (SILVEX)	0.00500	U	0.00320	0.00500

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287981 Analytical Batch: 288097

Sample ID: RUST OFF ROOF OF TKMS
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 225367
Date Collected: 02/19/05 Time: 1500
Date Received: 02/22/05
Date Extracted: 02/25/05
Date Analyzed: 02/28/05 Time: 1212
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: 1311/8151
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050228/SV8013

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00871	J	0.00270	0.05000
93-72-1	2,4,5-TP (SILVEX)	0.05000	U	0.03200	0.05000

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: DB-35MS-30 ID: .53 (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287981 Analytical Batch: 288097

Sample ID: RUST OFF ROOF OF TKMSD
Contract:
SAS No.: SDG No.: 205021806
Lab Sample ID: 225368
Date Collected: 02/19/05 Time: 1500
Date Received: 02/22/05
Date Extracted: 02/25/05
Date Analyzed: 02/28/05 Time: 1229
Dilution Factor: 1 Analyst: SJT
Prep Method: SW-846 8151A
Analytical Method: 1311/8151
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2050228/SV8014

CONCENTRATION UNITS: mg/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
94-75-7	2,4'-D	0.00784	J	0.00270	0.05000
93-72-1	2,4,5-TP (SILVEX)	0.05000	U	0.03200	0.05000

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1): DB-35MS-30 ID: .53 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8151A

	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 .	05283WC2W050217	0	37	140	D													0
2 .	MB224693	91	37	140														0
3 .	LCS224694	83	37	140														0
4 .	LCSD224695	80	37	140														0

SMC 1 : DCAA SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1): DB-35MS-30 ID: .53 (mm) GC Cloumn (2): ID: (mm)

Method: 1311/8151

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. MB225364	85	37	140														0
2. LCS225365	70	37	140														0
3. LCSD225366	67	37	140														0

SMC 1 : DCAA SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

GC Column (1) : DB-35MS-30 ID: .53 (mm) GC Cloumn (2) : ID: (mm)

Method: 1311/8151

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283WC1W050217 (TCLP)	67								0
2. 05283WC4W050217 (TCLP)	52								0

CONTROL LIMITS

SMC 1 : DCAA 37 140

SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: SW-846 8151A

Prep Batch: 287821 Analytical Batch: 287930

SAMPLE NO : 224694

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4'-D	ug/L	2.02	0	1.23	61		10 - 126
2,4,5-T	ug/L	2	0	1.51	76		32 - 130
2,4,5-TP (SILVEX)	ug/L	2.02	0	1.49	74		34 - 124

SAMPLE NO : 224695

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	ug/L	2.02	.995	49		21		10 - 126	0 - 40
2,4,5-T	ug/L	2	1.34	67		12		32 - 130	0 - 40
2,4,5-TP (SILVEX)	ug/L	2.02	1.41	70		6		34 - 124	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: 1311/8151

Prep Batch: 287981 Analytical Batch: 288097

SAMPLE NO : 225365

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
2,4'-D	mg/L	.00202	0	.0011	54		10 - 126
2,4,5-TP (SILVEX)	mg/L	.00202	0	.00119	59		34 - 124

SAMPLE NO : 225366

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	mg/L	.00202	.00105	52		5		10 - 126	0 - 40
2,4,5-TP (SILVEX)	mg/L	.00202	.0012	59		.8		34 - 124	0 - 40

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: RUST OFF ROOF OF TK

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

Contract: Method: 1311/8151

Prep Batch: 287981 Analytical Batch: 288097

Spike HSN : 225367

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
2,4'-D	mg/L	.0202	0	.00871	43		10 - 126
2,4,5-TP (SILVEX)	mg/L	.0202	0	.0103	51		34 - 124

Spike Dupe HSN : 225368

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
2,4'-D	mg/L	.0202	.00784	39		11		10 - 126	0 - 40
2,4,5-TP (SILVEX)	mg/L	.0202	.00913	45		12		34 - 124	0 - 40

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224693

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224693

SAS No.: SDG No.: 205021806

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/23/05 Time (1): 0831

Date Analyzed (2): Time (2):

Instrument ID (1): GCS8A

Instrument ID (2):

GC Column (1): DB-35MS-30 ID: .53 (mm)

GC Column (2): ID: (mm)

Method: SW-846 8151A

Prep Batch: 287821 Analytical Batch: 287930

Lab File ID: 2050223/SV8002

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224694	224694	02/23/05	0848		
2.	LCSD224695	224695	02/23/05	0905		
3.	05283WC2W050217	20502180605	02/23/05	1754		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab Sample ID: 225364

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Analyzed (1): 02/28/05 Time (1): 1103

Instrument ID (1): GCS8A

GC Column (1): DB-35MS-30 ID: .53 (mm)

Method: 1311/8151

Lab File ID: 2050228/SV8009

Sample ID: MB225364

Contract:

SAS No.: SDG No.: 205021806

Date Extracted: 02/25/05

Date Analyzed (2): Time (2):

Instrument ID (2):

GC Column (2): ID: (mm)

Prep Batch: 287981 Analytical Batch: 288097

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS225365	225365	02/28/05	1120		
2.	LCSD225366	225366	02/28/05	1137		
3.	05283WC1W050217 (TCLP)	20502180602	02/28/05	1246		
4.	05283WC4W050217 (TCLP)	20502180604	02/28/05	1303		

6E

ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: GCS8A

Calibration Date 1: 02/23/05 Time 1: 1552

GC Column: DB-35MS-30 ID: .53 (mm)

Calibration Date 2: 02/23/05 Time 2: 1719

Analytical Batch: 287940

Method: SW-846 8151A

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

Level 4: 1204 Level 5: 1205 Level 6: 1206

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	$\overline{RF}$	RSD
DCAA	144940	124007	122763	117000	110300	82804			116969	17.4
2,4,5-TP (SILVEX)	706351	638179	679056	686026	669967	513236			648803	10.8
2,4,5-T	622503	526713	582717	602967	600430	463309			566440	10.6
2,4'-D	238780	206002	201753	210356	202013	151209			201686	14.1

Data File: /var/chem/gcsv8.i/2050223p.b/SV8007.d
Report Date: 24-Feb-2005 07:26

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: H8151ICV.spk
Sublist File: ICV.sub
Method File: /var/chem/gcsv8.i/2050223p.b/M8151.m
Misc Info: GCSV~47XX~*

Client SDG: 2050223p
Fraction: SV

Operator: dlb
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
7 2,4-D	100	95.1	95.09	85-115
8 2,4,5-TP	100	98.6	98.64	85-115
9 2,4,5-T	100	94.8	94.76	85-115

7E

ORGANICS CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: GCS8A

Calibration Date: 02/23/05 Time: 2031

Lab File ID: 2050223P/SV801

Init. Calib. Date 1: 02/23/05 Time: 1552

GC Column: DB-35MS-30 ID: .53 (mm)

Init. Calib. Date 2: 02/23/05 Time: 1719

Analytical Batch: 287940

COMPOUND	$\overline{RRF}$	RRF50	% D
2,4'-D	201685.581	186421.940	7.57
2,4,5-T	566439.825	553784.082	2.23
2,4,5-TP (SILVEX)	648802.567	600521.357	7.44
DCAA	116969.159	100247.550	14.3

6E

ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: GCS8A

Calibration Date 1: 02/28/05 Time 1: 0841

GC Column: DB-35MS-30 ID: .53 (mm)

Calibration Date 2: 02/28/05 Time 2: 0951

Analytical Batch: 288097

Method: 1311/8151

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

Level 4: 1204 Level 5: 1205 Level 6:

Level 7: Level 8: Level 9:

COMPOUND	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	$\overline{RF}$	RSD
DCAA	154157	158651	127448	108751	112957				132392	17.4
2,4,5-TP (SILVEX)	682291	760029	638738	553035	601083				647035	12.2
2,4,5-T	680299	751539	624064	535590	578916				634082	13.4
2,4'-D	275023	281897	225275	187828	195364				233077	18.8

Data File: /var/chem/gcsv8.i/2050228.b/SV8008.d
Report Date: 28-Feb-2005 16:28

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: H8151ICV.spk
Sublist File: all.sub
Method File: /var/chem/gcsv8.i/2050228.b/M8151.m
Misc Info: GCSV~47XX~*

Client SDG: 2050228
Fraction: SV

Operator: sjt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
7 2,4-D	100	88.8	88.84	85-115
8 2,4,5-TP	100	86.5	86.47	85-115
9 2,4,5-T	100	88.5	88.55	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 2 DCAA	4000	0.00	*	37-140

7E

ORGANICS CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Instrument ID: GCS8A

Calibration Date: 02/28/05 Time: 1355

Lab File ID: 2050228/SV8019

Init. Calib. Date 1: 02/28/05 Time: 0841

GC Column: DB-35MS-30 ID: .53 (mm)

Init. Calib. Date 2: 02/28/05 Time: 0951

Analytical Batch: 288097

COMPOUND	$\overline{RRF}$	RRF50	% D
2,4'-D	233077.464	201848.016	13.4
2,4,5-T	634081.657	601375.641	5.16
2,4,5-TP (SILVEX)	647035.054	615664.644	4.85
Dinoseb	485091.115	428081.558	11.75
DCAA	132392.463	113643.796	14.16

HERBICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-21-5 8:00	BATCH NO:	287771
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 287771 [EXTO/7095]	224445	1000	10.0	7		LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287771 [EXTO/7095]	224446	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287771 [EXTO/7095	224447	1000	10.0	7		SEPARATORY FUNNEL/3510
4	4380	05283WC2W050217	20502180605	1000	10.0	7	–	
5	1996	NORTH PLANT SLUDGE (TCLP)	20502172209	100	10.0	<2	TCLP	
6	QC ACCOUNT	05283WC2W050217 (224293MS)	224448	100	10.0	<2		
7	QC ACCOUNT	05283WC2W050217 (224293MSD)	224449	100	10.0	<2		SONICATOR/3550
8			20502151201	100	10.0	<2	–	
9			0217tblk	100	10.0	<2		SHAKER
10			0216tblk	100	10.0	<2		
11								
12								
13								WASTE DILUTION/3580
14								
15								
16								
17								
18								
19								
20								
21								Diazomethane Log No:
22								1-87-3
23								Sodium Sulfate Lot No:
24								040858
25								ETHER
26								044773-12
27								METHYLENE CHLORIDE
28								040858

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME – Heavy emoltion

HERB SURR ID	9-15-7	MATRIX SPIKE ID	9-14-2			TECHNICIAN	DATE
VOLUME	200ul	VOLUME	200ul			Jody Aucoin	2-21-5
CONCENTRATION	20ug/ml	CONCENTRATION	10.0ug/ml				
						SUPERVISOR	DATE
SPIKE WITNESS	DWB					John Bailey	02/22/05

TCLP EXTRACTIONS

DATE: 2/16/15 BATCH # 287681 ANALYST: GLJ

Sample Number:	216+BLK	20502164301	20502163501				
Sample Description		Mud	Rock				
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓				
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓				
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0				
Actual volume of water (96.5± 1mL)		97	97				
Initial pH (After 5 min. mixing) "pH-1"		855	244				
√ If pH >5, if 3.5 mL 1N HCl added		✓					
√ If heated and held at 50°C for 10 minutes		✓					
Second pH "pH-2"		147					
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓				
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓				
Weight of Solids to be Extracted (X)		100	100				
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000	2000				
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700	1700				
Stop Time	900	900	900				
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	5.45	3.11				

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-1A-2

EXTRACTION FLUID #2 pH and ID: _____

Secondary Review: SKB

000256

TCLP EXTRACTIONS

DATE: 2-17-5 BATCH # 287703 ANALYST: JPA

Sample Number:	20502172009	0217+blk					
Sample Description	sludge	Ext.1					
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)	√						
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)	√						
Actual Weight of subsample (5.0± 0.1g)	5.0						
Actual volume of water (96.5± 1mL)	97						
Initial pH (After 5 min. mixing) "pH-1"	6.72						
√ If pH >5, if 3.5 mL 1N HCl added	√						
√ If heated and held at 50°C for 10 minutes	√						
Second pH "pH-2"	1.18						
If pH-1 or pH-2 <5.0 use Fluid 1 (√)	√						
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)	√						
Weight of Solids to be Extracted (X)	100						
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000					
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700					
Stop Time	900	900					
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	4.89					

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 23.0

EXTRACTION FLUID #1 pH and ID: 131-64-2 (4.90)

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

000257

TCLP EXTRACTIONS

DATE: 2-21-5 BATCH # 287815 ANALYST: GCJ

Sample Number:	221TB1K	20502180602	20502180604	20502151401	20502180301	20502211982	
Sample Description	MB	soil/sand	soil/sand	RGSIN	Sticks	CARBON	
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓	✓	✓	✓	
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)				VOID GCJ 2-21-5			
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓	✓	✓	✓	
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0	5.0	5.0	5.0	
Actual volume of water (96.5± 1mL)		97	97	97	97	97	
Initial pH (After 5 min. mixing) "pH-1"		867	931	929	458	653	
√ If pH >5, if 3.5 mL 1N HCl added		✓	✓	✓		✓	
√ If heated and held at 50°C for 10 minutes		✓	✓	✓		✓	
Second pH "pH-2"		155	157	179		138	
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓	✓	✓	✓	
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓		✓	✓	
Weight of Solids to be Extracted (X)							
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X							
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1600	1600	1600	1600	1600	1600	
Stop Time	800	800	800	800	800	800	
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	500	630	634		490	511	

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 20.5 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-64-3 497

EXTRACTION FLUID #2 pH and ID:

Secondary Review:

000258

HERBICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	02/25/05 08:00	BATCH NO:	287981
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 287981 [EXTO/7126]	225364	1000	10.0	7		LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287981 [EXTO/7126]	225365	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287981 [EXTO/7126	225366	1000	10.0	7		SEPARATORY FUNNEL/3510
4	4490	RUST OFF ROOF OF TK	20502221401	100	10.0	<2		
5	QC ACCOUNT	RUST OFF ROOF OF TK (224858MS)	225367	100	10.0	<2		
6	QC ACCOUNT	RUST OFF ROOF OF TK (224858MSD)	225368	100	10.0	<2		
7	1996	NORTH PLANT SLUDGE (TCLP)	20502172209	100	10.0	<2		SONICATOR/3550
8	4380	05283WC1W050217 (TCLP)	20502180602	100	10.0	<2		
9	4380	05283WC4W050217 (TCLP)	20502180604	100	10.0	<2		SHAKER
10								
11								
12								
13								WASTE DILUTION/3580
14								
15								
16								
17								
18								
19								
20								
21								Diazomethane Log No:
22								1-89-3
23								Sodium Sulfate Lot No:
24								040858
25								ETHER
26								044773-12
27								METHYLENE CHLORIDE
28								045514

SKB 02/28/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

HERB SURR ID	9-15-7	MATRIX SPIKE ID	9-17-5			TECHNICIAN	DATE
VOLUME	200ul	VOLUME	200ul			Lody Avcoin	2-25-5
CONCENTRATION	20ug/ml	CONCENTRATION	10ug/ml				
						SUPERVISOR	DATE
SPIKE WITNESS	-					John Bailey	02/28/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/24/2005
Instrument: gcsv8.i
Method File: /var/chem/gcsv8.i/2050223p.b/M8151.m
Batch: /var/chem/gcsv8.i/2050223p.b
Column-Detector: DB-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1201		SV8001.d	23-FEB-2005 15:52	1.000	dlb	
1202		SV8002.d	23-FEB-2005 16:10	1.000	dlb	
1203		SV8003.d	23-FEB-2005 16:27	1.000	dlb	
1204		SV8004.d	23-FEB-2005 16:45	1.000	dlb	
1205		SV8005.d	23-FEB-2005 17:02	1.000	dlb	
1206		SV8006.d	23-FEB-2005 17:19	1.000	dlb	
ICV		SV8007.d	23-FEB-2005 17:37	1.000	dlb	
20502180605		SV8008.d	23-FEB-2005 17:54	100.000	dlb	
20502180605		SV8009.d	23-FEB-2005 18:11	50.000	dlb	
diaz test		SV8010.d	23-FEB-2005 18:29	1.000	dlb	
224455		SV8011.d	23-FEB-2005 18:46	1.000	dlb	
224456		SV8012.d	23-FEB-2005 19:04	1.000	dlb	
224457		SV8013.d	23-FEB-2005 19:21	1.000	dlb	
20502182401		SV8014.d	23-FEB-2005 19:38	1.000	dlb	
224458		SV8015.d	23-FEB-2005 19:56	1.000	dlb	
224459		SV8016.d	23-FEB-2005 20:13	1.000	dlb	
1400		SV8017.d	23-FEB-2005 20:31	1.000	dlb	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/28/2005
Instrument: gcsv8.i
Method File: /var/chem/gcsv8.i/2050228.b/M8151.m
Batch: /var/chem/gcsv8.i/2050228.b
Column-Detector: DB-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
		SV8001.d	28-FEB-2005 08:24	1.000	sjt	
1201		SV8002.d	28-FEB-2005 08:41	1.000	sjt	
1202		SV8003.d	28-FEB-2005 08:59	1.000	sjt	
1203		SV8004.d	28-FEB-2005 09:16	1.000	sjt	
1204		SV8005.d	28-FEB-2005 09:33	1.000	sjt	
1205		SV8006.d	28-FEB-2005 09:51	1.000	sjt	
1206		SV8007.d	28-FEB-2005 10:08	1.000	sjt	
1600		SV8008.d	28-FEB-2005 10:26	1.000	sjt	
224364		SV8009.d	28-FEB-2005 11:03	1.000	sjt	
224365		SV8010.d	28-FEB-2005 11:20	1.000	sjt	
224366		SV8011.d	28-FEB-2005 11:37	1.000	sjt	
20502221401		SV8012.d	28-FEB-2005 11:54	1.000	sjt	
225367		SV8013.d	28-FEB-2005 12:12	1.000	sjt	
225368		SV8014.d	28-FEB-2005 12:29	1.000	sjt	
20502180602		SV8015.d	28-FEB-2005 12:46	1.000	sjt	
20502180604		SV8016.d	28-FEB-2005 13:03	1.000	sjt	
20502172209		SV8017.d	28-FEB-2005 13:21	1.000	sjt	
0222tblk		SV8018.d	28-FEB-2005 13:38	1.000	sjt	
1400		SV8019.d	28-FEB-2005 13:55	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

SOW No.:

EPA Sample No	*Lab Sample ID*
05283WC1W050217 (TCLP)	20502180602
05283WC4W050217 (TCLP)	20502180604
05283WC2W050217	20502180605

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: 05283WC1W050217 (TCLP)
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 205021806
Level: (low / med)
% Solids:
Lab Sample ID: 20502180602
Date Received: 02/18/05
Time: 0920
Date Collected: 02/17/05
Time: 1150

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.057	mg/L	B	0.0025	0.20	SW-846 1311/6010B	P
Barium	0.10	mg/L	B	0.00030	1.00	SW-846 1311/6010B	P
Cadmium	0.0037	mg/L	B	0.00010	0.010	SW-846 1311/6010B	P
Chromium	0.0054	mg/L	B	0.00050	0.050	SW-846 1311/6010B	P
Lead	0.10	mg/L	U	0.0015	0.10	SW-846 1311/6010B	P
Mercury	0.00020	mg/L	U	0.00008	0.00020	SW-846 1311/7470A	AV
Selenium	0.10	mg/L	U	0.0031	0.10	SW-846 1311/6010B	P
Silver	0.0024	mg/L	B	0.00060	0.050	SW-846 1311/6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 05283WC4W050217 (TCLP)
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 205021806
Level: (low / med)
% Solids:
Lab Sample ID: 20502180604
Date Received: 02/18/05
Time: 0920
Date Collected: 02/17/05
Time: 1545

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.021	mg/L	B	0.0025	0.20	SW-846 1311/6010B	P
Barium	0.29	mg/L	B	0.00030	1.00	SW-846 1311/6010B	P
Cadmium	0.010	mg/L	U	0.00010	0.010	SW-846 1311/6010B	P
Chromium	0.0057	mg/L	B	0.00050	0.050	SW-846 1311/6010B	P
Lead	0.10	mg/L	U	0.0015	0.10	SW-846 1311/6010B	P
Mercury	0.00020	mg/L	U	0.00008	0.00020	SW-846 1311/7470A	AV
Selenium	0.10	mg/L	U	0.0031	0.10	SW-846 1311/6010B	P
Silver	0.0020	mg/L	B	0.00060	0.050	SW-846 1311/6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 05283WC2W050217
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205021806
Level: (low / med)
% Solids:
Lab Sample ID: 20502180605
Date Received: 02/18/05
Time: 0920
Date Collected: 02/17/05
Time: 1215

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Aluminum	0.095	mg/L	B	0.023	0.20	SW-846 6010B	P
Antimony	0.015	mg/L		0.0037	0.0060	SW-846 6010B	P
Arsenic	0.019	mg/L		0.0025	0.010	SW-846 6010B	P
Barium	0.048	mg/L	B	0.00030	0.20	SW-846 6010B	P
Beryllium	0.00019	mg/L	B	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Calcium	192	mg/L		0.036	5.00	SW-846 6010B	P
Chromium	0.0035	mg/L	B	0.00050	0.0050	SW-846 6010B	P
Cobalt	0.050	mg/L	U	0.00050	0.050	SW-846 6010B	P
Copper	0.079	mg/L		0.0012	0.025	SW-846 6010B	P
Iron	75.1	mg/L		0.0075	0.10	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Magnesium	26.4	mg/L		0.015	5.00	SW-846 6010B	P
Manganese	0.83	mg/L		0.00020	0.015	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.00008	0.00020	SW-846 7470A	AV
Nickel	0.0010	mg/L	B	0.00050	0.040	SW-846 6010B	P
Potassium	8.03	mg/L		0.021	5.00	SW-846 6010B	P
Selenium	0.0050	mg/L	U	0.0031	0.0050	SW-846 6010B	P
Silver	0.00099	mg/L	B	0.00060	0.0050	SW-846 6010B	P
Sodium	11.1	mg/L		0.032	5.00	SW-846 6010B	P
Thallium	0.0020	mg/L	U	0.0019	0.0020	SW-846 6010B	P
Vanadium	0.050	mg/L	U	0.00070	0.050	SW-846 6010B	P
Zinc	6.65	mg/L		0.0011	0.020	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Calibration Source: 125-47-2 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 0926

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.92	99	mg/L	SW-846 6010B	P
Antimony	1.00	0.990	99	mg/L	SW-846 6010B	P
Arsenic	1.00	1.02	102	mg/L	SW-846 6010B	P
Barium	1.00	1.01	101	mg/L	SW-846 6010B	P
Beryllium	1.00	0.980	98	mg/L	SW-846 6010B	P
Boron	5.00	5.14	103	mg/L	SW-846 6010B	P
Cadmium	1.00	0.990	99	mg/L	SW-846 6010B	P
Calcium	10.0	9.54	95	mg/L	SW-846 6010B	P
Chromium	1.00	0.990	99	mg/L	SW-846 6010B	P
Cobalt	1.00	0.990	99	mg/L	SW-846 6010B	P
Copper	1.00	1.00	100	mg/L	SW-846 6010B	P
Iron	10.0	9.59	96	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 6010B	P
Lithium	1.00	0.990	99	mg/L	SW-846 6010B	P
Magnesium	10.0	9.49	95	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.980	98	mg/L	SW-846 6010B	P
Nickel	1.00	1.00	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	1.00	0.990	99	mg/L	SW-846 6010B	P
Silver	1.00	0.940	94	mg/L	SW-846 6010B	P
Sodium	10.0	9.88	99	mg/L	SW-846 6010B	P
Strontium	1.00	1.00	100	mg/L	SW-846 6010B	P
Thallium	1.00	1.03	103	mg/L	SW-846 6010B	P
Tin	1.00	1.04	104	mg/L	SW-846 6010B	P
Titanium	1.00	0.990	99	mg/L	SW-846 6010B	P
Vanadium	1.00	0.990	99	mg/L	SW-846 6010B	P
Zinc	1.00	0.970	97	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.: 205021806
Calibration Source: 136-4-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 0945

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	0.200	0.170	83	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0610	101	mg/L	SW-846 6010B	P
Arsenic	0.0400	0.0400	99	mg/L	SW-846 6010B	P
Barium	0.0100	0.0100	104	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00490	98	mg/L	SW-846 6010B	P
Boron	0.500	0.550	111	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00490	97	mg/L	SW-846 6010B	P
Calcium	0.100	0.130	125	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0100	103	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0100	102	mg/L	SW-846 6010B	P
Copper	0.0100	0.00960	96	mg/L	SW-846 6010B	P
Iron	0.100	0.110	112	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	110	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0480	96	mg/L	SW-846 6010B	P
Magnesium	0.100	0.140	144	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0110	76	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0500	101	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0410	102	mg/L	SW-846 6010B	P
Potassium	0.500	0.520	104	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0300	75	mg/L	SW-846 6010B	P
Silver	0.0100	0.00990	99	mg/L	SW-846 6010B	P
Sodium	1.00	0.600	60	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0530	106	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00740	74	mg/L	SW-846 6010B	P
Tin	0.100	0.110	113	mg/L	SW-846 6010B	P
Titanium	0.100	0.100	102	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	104	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0200	101	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1016

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.25	105	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.08	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	99	mg/L	SW-846 6010B	P
Copper	0.500	0.510	101	mg/L	SW-846 6010B	P
Iron	5.00	5.13	103	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.18	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.87	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	99	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.9	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	102	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1139

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.97	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	94	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	99	mg/L	SW-846 6010B	P
Barium	0.500	0.490	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.63	105	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	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.500	101	mg/L	SW-846 6010B	P
Iron	5.00	4.97	99	mg/L	SW-846 6010B	P
Lead	0.500	0.490	97	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	4.97	99	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	97	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	99	mg/L	SW-846 6010B	P
Potassium	10.0	9.92	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1206

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.07	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.480	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	101	mg/L	SW-846 6010B	P
Barium	0.500	0.500	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.65	106	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	98	mg/L	SW-846 6010B	P
Calcium	5.00	4.96	99	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	99	mg/L	SW-846 6010B	P
Copper	0.500	0.500	101	mg/L	SW-846 6010B	P
Iron	5.00	5.02	100	mg/L	SW-846 6010B	P
Lead	0.500	0.490	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.06	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.82	98	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	103	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	101	mg/L	SW-846 6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5
ICAL ID: 2
Date Analyzed: 02/22/05
Time: 1345

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	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	100	mg/L	SW-846 6010B	P
Calcium	5.00	4.67	93	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 6010B	P
Copper	0.500	0.510	103	mg/L	SW-846 6010B	P
Iron	5.00	4.83	97	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.61	92	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	97	mg/L	SW-846 6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 6010B	P
Sodium	20.0	20.1	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	97	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1511

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.87	97	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	95	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	97	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.54	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	95	mg/L	SW-846 6010B	P
Calcium	5.00	4.79	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	99	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	4.90	98	mg/L	SW-846 6010B	P
Lead	0.500	0.480	96	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.75	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	95	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	95	mg/L	SW-846 6010B	P
Silver	0.500	0.500	101	mg/L	SW-846 6010B	P
Sodium	20.0	21.1	106	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	99	mg/L	SW-846 6010B	P
Tin	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	99	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1642

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	0.450	91	mg/L	SW-846 6010B	P
Arsenic	0.500	0.470	95	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 6010B	P
Cadmium	0.500	0.460	91	mg/L	SW-846 6010B	P
Calcium	5.00	4.68	94	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	95	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	4.86	97	mg/L	SW-846 6010B	P
Lead	0.500	0.460	93	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.56	91	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.460	91	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.450	90	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	20.5	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	93	mg/L	SW-846 6010B	P
Thallium	0.500	0.480	96	mg/L	SW-846 6010B	P
Tin	0.500	0.450	90	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.460	92	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1807

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	0.440	87	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	90	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.61	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	89	mg/L	SW-846 6010B	P
Calcium	5.00	4.84	97	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 6010B	P
Lead	0.500	0.450	90	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.70	94	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.440	87	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	96	mg/L	SW-846 6010B	P
Potassium	10.0	10.8	108	mg/L	SW-846 6010B	P
Selenium	0.500	0.420	85	mg/L	SW-846 6010B	P
Silver	0.500	0.500	99	mg/L	SW-846 6010B	P
Sodium	20.0	22.0	110	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	92	mg/L	SW-846 6010B	P
Thallium	0.500	0.460	91	mg/L	SW-846 6010B	P
Tin	0.500	0.440	87	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.440	88	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	99	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 02/22/05 Time: 1933

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.410	82	mg/L	SW-846 6010B	P
Arsenic	0.500	0.430	85	mg/L	SW-846 6010B	P
Barium	0.500	0.480	95	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.420	84	mg/L	SW-846 6010B	P
Calcium	5.00	4.97	99	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.460	92	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.20	104	mg/L	SW-846 6010B	P
Lead	0.500	0.430	86	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.74	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.410	83	mg/L	SW-846 6010B	P
Nickel	0.500	0.470	94	mg/L	SW-846 6010B	P
Potassium	10.0	10.8	108	mg/L	SW-846 6010B	P
Selenium	0.500	0.400	80	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	21.6	108	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	91	mg/L	SW-846 6010B	P
Thallium	0.500	0.440	87	mg/L	SW-846 6010B	P
Tin	0.500	0.410	82	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.420	84	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5
ICAL ID: 2
Date Analyzed: 02/22/05
Time: 2059

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.10	102	mg/L	SW-846 6010B	P
Antimony	0.500	0.380	75	mg/L	SW-846 6010B	P
Arsenic	0.500	0.390	78	mg/L	SW-846 6010B	P
Barium	0.500	0.440	89	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.44	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.390	77	mg/L	SW-846 6010B	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.460	93	mg/L	SW-846 6010B	P
Cobalt	0.500	0.430	85	mg/L	SW-846 6010B	P
Copper	0.500	0.480	95	mg/L	SW-846 6010B	P
Iron	5.00	5.23	105	mg/L	SW-846 6010B	P
Lead	0.500	0.400	80	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.08	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.460	91	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.380	76	mg/L	SW-846 6010B	P
Nickel	0.500	0.440	88	mg/L	SW-846 6010B	P
Potassium	10.0	10.3	103	mg/L	SW-846 6010B	P
Selenium	0.500	0.360	72	mg/L	SW-846 6010B	P
Silver	0.500	0.480	95	mg/L	SW-846 6010B	P
Sodium	20.0	19.9	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	91	mg/L	SW-846 6010B	P
Thallium	0.500	0.400	80	mg/L	SW-846 6010B	P
Tin	0.500	0.370	75	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	93	mg/L	SW-846 6010B	P
Zinc	0.500	0.390	77	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5
ICAL ID: 2
Date Analyzed: 02/22/05
Time: 2119

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.99	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.400	80	mg/L	SW-846 6010B	P
Arsenic	0.500	0.410	82	mg/L	SW-846 6010B	P
Barium	0.500	0.460	92	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.48	99	mg/L	SW-846 6010B	P
Cadmium	0.500	0.400	81	mg/L	SW-846 6010B	P
Calcium	5.00	4.81	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	97	mg/L	SW-846 6010B	P
Cobalt	0.500	0.440	89	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.08	102	mg/L	SW-846 6010B	P
Lead	0.500	0.420	83	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.69	94	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	95	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.400	79	mg/L	SW-846 6010B	P
Nickel	0.500	0.460	92	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.380	76	mg/L	SW-846 6010B	P
Silver	0.500	0.500	99	mg/L	SW-846 6010B	P
Sodium	20.0	20.7	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	92	mg/L	SW-846 6010B	P
Thallium	0.500	0.420	84	mg/L	SW-846 6010B	P
Tin	0.500	0.390	78	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.410	81	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	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.: 205021806
Calibration Source: 125-47-2 CPI/EXAXOL
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 0904

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	10.2	102	mg/L	SW-846 1311/6010B	P
Antimony	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Arsenic	1.00	0.960	96	mg/L	SW-846 1311/6010B	P
Barium	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Beryllium	1.00	0.990	99	mg/L	SW-846 1311/6010B	P
Boron	5.00	5.08	102	mg/L	SW-846 1311/6010B	P
Cadmium	1.00	0.990	99	mg/L	SW-846 1311/6010B	P
Calcium	10.0	9.99	100	mg/L	SW-846 1311/6010B	P
Chromium	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Cobalt	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Copper	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Iron	10.0	9.96	100	mg/L	SW-846 1311/6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Magnesium	10.0	10.1	101	mg/L	SW-846 1311/6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 1311/6010B	P
Molybdenum	1.00	0.990	99	mg/L	SW-846 1311/6010B	P
Nickel	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Selenium	1.00	1.01	101	mg/L	SW-846 1311/6010B	P
Silver	1.00	0.940	94	mg/L	SW-846 1311/6010B	P
Strontium	1.00	0.950	95	mg/L	SW-846 1311/6010B	P
Thallium	1.00	1.01	101	mg/L	SW-846 1311/6010B	P
Tin	1.00	1.01	101	mg/L	SW-846 1311/6010B	P
Titanium	1.00	1.00	100	mg/L	SW-846 1311/6010B	P
Vanadium	1.00	0.990	99	mg/L	SW-846 1311/6010B	P
Zinc	1.00	0.970	97	mg/L	SW-846 1311/6010B	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.: 205021806
Calibration Source: 136-6-2 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 0919

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.180	88	mg/L	SW-846 1311/6010B	P
Antimony	0.0600	0.0550	92	mg/L	SW-846 1311/6010B	P
Arsenic	0.0400	0.0390	98	mg/L	SW-846 1311/6010B	P
Barium	0.0100	0.00980	98	mg/L	SW-846 1311/6010B	P
Beryllium	0.00500	0.00470	93	mg/L	SW-846 1311/6010B	P
Boron	0.500	0.540	109	mg/L	SW-846 1311/6010B	P
Cadmium	0.00500	0.00720	143	mg/L	SW-846 1311/6010B	P
Calcium	0.100	0.110	106	mg/L	SW-846 1311/6010B	P
Chromium	0.0100	0.00920	92	mg/L	SW-846 1311/6010B	P
Cobalt	0.0100	0.00910	91	mg/L	SW-846 1311/6010B	P
Copper	0.0100	0.00980	98	mg/L	SW-846 1311/6010B	P
Iron	0.100	0.0970	97	mg/L	SW-846 1311/6010B	P
Lead	0.0150	0.0150	102	mg/L	SW-846 1311/6010B	P
Magnesium	0.100	0.100	100	mg/L	SW-846 1311/6010B	P
Manganese	0.0150	0.0150	101	mg/L	SW-846 1311/6010B	P
Molybdenum	0.0500	0.0490	97	mg/L	SW-846 1311/6010B	P
Nickel	0.0400	0.0420	105	mg/L	SW-846 1311/6010B	P
Selenium	0.0400	0.0260	66	mg/L	SW-846 1311/6010B	P
Silver	0.0100	0.00970	97	mg/L	SW-846 1311/6010B	P
Strontium	0.0500	0.0410	82	mg/L	SW-846 1311/6010B	P
Thallium	0.0100	0.0200	202	mg/L	SW-846 1311/6010B	P
Tin	0.100	0.100	101	mg/L	SW-846 1311/6010B	P
Titanium	0.100	0.100	100	mg/L	SW-846 1311/6010B	P
Vanadium	0.0200	0.0200	100	mg/L	SW-846 1311/6010B	P
Zinc	0.0200	0.0190	96	mg/L	SW-846 1311/6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 0934

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.05	101	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.06	101	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.12	102	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.480	96	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.490	97	mg/L	SW-846 1311/6010B	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 1036

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.09	102	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.530	107	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.16	103	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.15	103	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.520	105	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.18	104	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.530	106	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.480	97	mg/L	SW-846 1311/6010B	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.: 205021806

Calibration Source: 136-6-1 INORGANIC VENTURES Instrument ID: ICP2 ICAL ID: 3

Date Analyzed: 02/24/05 Time: 1115

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.02	100	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.540	109	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.12	102	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.08	102	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.10	102	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.530	105	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.560	111	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.480	97	mg/L	SW-846 1311/6010B	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.: 205021806

Calibration Source: 136-6-1 INORGANIC VENTURES Instrument ID: ICP2 ICAL ID: 3

Date Analyzed: 02/24/05 Time: 1229

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	5.00	100	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.480	97	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.530	106	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.54	101	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.05	101	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.06	101	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.530	105	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.500	101	mg/L	SW-846 1311/6010B	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 1332

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.95	99	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.540	107	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.54	102	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.18	104	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Iron	5.00	4.99	100	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.01	100	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.540	108	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.560	112	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.480	97	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.480	95	mg/L	SW-846 1311/6010B	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.: 205021806

Calibration Source: 136-6-1 INORGANIC VENTURES Instrument ID: ICP2 ICAL ID: 3

Date Analyzed: 02/24/05 Time: 1431

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	5.00	4.98	100	mg/L	SW-846 1311/6010B	P
Antimony	0.500	0.490	97	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.550	110	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.56	102	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.21	104	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.06	101	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.520	103	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.540	108	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.500	99	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.550	109	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.480	96	mg/L	SW-846 1311/6010B	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.: 205021806
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP2 ICAL ID: 3
Date Analyzed: 02/24/05 Time: 1512

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Antimony	0.500	0.480	96	mg/L	SW-846 1311/6010B	P
Arsenic	0.500	0.550	110	mg/L	SW-846 1311/6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Beryllium	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 1311/6010B	P
Cadmium	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Calcium	5.00	5.22	104	mg/L	SW-846 1311/6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 1311/6010B	P
Cobalt	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Copper	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 1311/6010B	P
Lead	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Magnesium	5.00	5.09	102	mg/L	SW-846 1311/6010B	P
Manganese	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Molybdenum	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Nickel	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Selenium	0.500	0.520	104	mg/L	SW-846 1311/6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 1311/6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 1311/6010B	P
Thallium	0.500	0.530	105	mg/L	SW-846 1311/6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 1311/6010B	P
Vanadium	0.500	0.500	101	mg/L	SW-846 1311/6010B	P
Zinc	0.500	0.510	103	mg/L	SW-846 1311/6010B	P
Zirconium	0.500	0.490	99	mg/L	SW-846 1311/6010B	P
Aluminum	5.00	4.96	99	mg/L	SW-846 1311/6010B	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.: 205021806
Calibration Source: 136-1-4 CPI
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/23/05 Time: 1446

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00495	99	mg/L	SW-846 7470A	AV

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.: 205021806
Calibration Source: 136-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/23/05 Time: 1449

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00491	98	mg/L	SW-846 7470A	AV

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.: 205021806
Calibration Source: 136-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/23/05 Time: 1510

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00485	97	mg/L	SW-846 7470A	AV

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.: 205021806
Calibration Source: 136-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/23/05 Time: 1524

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00482	96	mg/L	SW-846 7470A	AV

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.: 205021806
Lab Sample ID: ICB
ICAL ID: 2
Lab Sample DESC: ICB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 0933

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.055	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.0030	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.00011	B	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.0028	B	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.029	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.030	B	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.042	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1023

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.094	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00058	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.010	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.050	B	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224587

ICAL ID: 2

Lab Sample DESC: MB224587

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1029

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.0060	U	mg/L	0.0037	0.0060	SW-846 6010B	P
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010B	P
Barium	0.0023	B	mg/L	0.00030	0.20	SW-846 6010B	P
Beryllium	0.0040	U	mg/L	0.00010	0.0040	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	5.00	U	mg/L	0.036	5.00	SW-846 6010B	P
Chromium	0.0050	U	mg/L	0.00050	0.0050	SW-846 6010B	P
Cobalt	0.050	U	mg/L	0.00050	0.050	SW-846 6010B	P
Copper	0.025	U	mg/L	0.0012	0.025	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.0030	U	mg/L	0.0015	0.0030	SW-846 6010B	P
Magnesium	0.017	B	mg/L	0.015	5.00	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.036	B	mg/L	0.021	5.00	SW-846 6010B	P
Selenium	0.0050	U	mg/L	0.0031	0.0050	SW-846 6010B	P
Silver	0.0050	U	mg/L	0.00060	0.0050	SW-846 6010B	P
Sodium	5.00	U	mg/L	0.032	5.00	SW-846 6010B	P
Thallium	0.0020	U	mg/L	0.0019	0.0020	SW-846 6010B	P
Vanadium	0.0011	B	mg/L	0.00070	0.050	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1146

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.0026	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0016	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.022	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.028	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1213

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.026	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0018	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.014	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.056	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1352

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.045	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0017	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.0088	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0030	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.00099	B	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.0011	B	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1518

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00073	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	0.15	B	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1649

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.0041	B	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00077	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.50	U	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.00	U	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.00070	B	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1814

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00045	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.10	U	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.033	B	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.19	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	1.02		mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1940

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Aluminum	0.068	B	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.0040	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00079	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.013	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.10	U	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.13	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	0.75	B	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.020	U	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 2106

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.0048	B	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00081	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.010	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.037	B	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.071	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	0.39	B	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0019	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.00074	B	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 2
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 2126

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Aluminum	0.20	U	mg/L	0.023	0.20	SW-846 6010B	P
Antimony	0.060	U	mg/L	0.0037	0.060	SW-846 6010B	P
Arsenic	0.0025	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00067	B	mg/L	0.00030	0.010	SW-846 6010B	P
Beryllium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Calcium	0.10	U	mg/L	0.036	0.10	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Cobalt	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Copper	0.010	U	mg/L	0.0012	0.010	SW-846 6010B	P
Iron	0.018	B	mg/L	0.0075	0.10	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Magnesium	0.076	B	mg/L	0.015	0.10	SW-846 6010B	P
Manganese	0.015	U	mg/L	0.00020	0.015	SW-846 6010B	P
Nickel	0.040	U	mg/L	0.00050	0.040	SW-846 6010B	P
Potassium	0.077	B	mg/L	0.021	0.50	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P
Sodium	0.11	B	mg/L	0.032	1.00	SW-846 6010B	P
Thallium	0.0060	B	mg/L	0.0019	0.020	SW-846 6010B	P
Vanadium	0.020	U	mg/L	0.00070	0.020	SW-846 6010B	P
Zinc	0.020	U	mg/L	0.0011	0.020	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: ICB
ICAL ID: 3
Lab Sample DESC: ICB FOR HBN 287941 [ICP/2791]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP2
Date Analyzed: 02/24/05 Time: 0909

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.026	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.0010	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 3
Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP2
Date Analyzed: 02/24/05 Time: 0939

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.025	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.00089	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205021806
Lab Sample ID: CCB
ICAL ID: 3
Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP2
Date Analyzed: 02/24/05 Time: 1041

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.025	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.0014	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.0011	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1120

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.044		mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.0026	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.0016	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1234

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.027	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.00099	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.00085	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224704

ICAL ID: 3

Lab Sample DESC: MB224704

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1239

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.20	U	mg/L	0.0025	0.20	SW-846 1311/6010B	P
Barium	1.00	U	mg/L	0.00030	1.00	SW-846 1311/6010B	P
Cadmium	0.010	U	mg/L	0.00010	0.010	SW-846 1311/6010B	P
Chromium	0.050	U	mg/L	0.00050	0.050	SW-846 1311/6010B	P
Lead	0.10	U	mg/L	0.0015	0.10	SW-846 1311/6010B	P
Selenium	0.10	U	mg/L	0.0031	0.10	SW-846 1311/6010B	P
Silver	0.050	U	mg/L	0.00060	0.050	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1337

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.018	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.0023	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.0012	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1436

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.027	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.00094	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.0013	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287941 [ICP/2791]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP2

Date Analyzed: 02/24/05 Time: 1517

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.023	B	mg/L	0.0025	0.040	SW-846 1311/6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 1311/6010B	P
Cadmium	0.00078	B	mg/L	0.00010	0.0050	SW-846 1311/6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 1311/6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 1311/6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 1311/6010B	P
Silver	0.0014	B	mg/L	0.00060	0.010	SW-846 1311/6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1447

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1451

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224592

ICAL ID: 1

Lab Sample DESC: MB224592

Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1452

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: 224709

ICAL ID: 1

Lab Sample DESC: MB224709

Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1505

PREPARATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 1311/7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1511

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1526

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

ICP ID Number: ICP5 ICS Source: 136-1-2 SPEX~1

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	208	215	108			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.08	108			
Barium	0	0.50		0.51	102			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		1.10	110			
Cadmium	0	1.00		0.97	97			
Calcium	200	200	197	198	99			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.48	96			
Copper	0	0.50		0.52	104			
Iron	80.0	80.0	79.0	80.5	101			
Lead	0	1.00		0.99	99			
Magnesium	200	200	199	194	97			
Manganese	0	0.50		0.51	102			
Molybdenum	0	1.00		1.02	102			
Nickel	0	1.00		0.97	97			
Selenium	0	1.00		1.05	105			
Silver	0	1.00		1.07	107			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.50		0.50	100			
Zinc	0	1.00		1.04	104			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806

ICP ID Number: ICP2 ICS Source: 136-1-2 SPEX~1

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	211	213	106			
Antimony	0	1.00		1.01	101			
Arsenic	0	1.00		1.02	102			
Barium	0	0.50		0.52	104			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		1.08	108			
Cadmium	0	1.00		1.06	106			
Calcium	200	200	201	202	101			
Chromium	0	0.50		0.51	102			
Cobalt	0	0.50		0.51	102			
Copper	0	0.50		0.53	106			
Iron	80.0	80.0	81.8	82.5	103			
Lead	0	1.00		1.05	105			
Magnesium	200	200	214	215	108			
Manganese	0	0.50		0.52	104			
Molybdenum	0	1.00		1.06	106			
Nickel	0	1.00		1.01	101			
Selenium	0	1.00		1.04	104			
Silver	0	1.00		1.06	106			
Thallium	0	1.00		1.08	108			
Vanadium	0	0.50		0.52	104			
Zinc	0	1.00		0.96	96			

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224590

Orig Lab Sample ID 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5.51		0.095	B	5.00	108		mg/L	SW-846 6010B	P
Antimony	75	125	0.52		0.015		0.50	102		mg/L	SW-846 6010B	P
Arsenic	75	125	0.57		0.019		0.50	110		mg/L	SW-846 6010B	P
Barium	75	125	0.56		0.048	B	0.50	103		mg/L	SW-846 6010B	P
Beryllium	75	125	0.53		0.00019	B	0.50	106		mg/L	SW-846 6010B	P
Cadmium	75	125	0.49		0	U	0.50	98		mg/L	SW-846 6010B	P
Calcium	75	125	186		192		5.00	-136	N	mg/L	SW-846 6010B	P
Chromium	75	125	0.52		0.0035	B	0.50	104		mg/L	SW-846 6010B	P
Cobalt	75	125	0.52		0	U	0.50	103		mg/L	SW-846 6010B	P
Copper	75	125	0.64		0.079		0.50	112		mg/L	SW-846 6010B	P
Iron	75	125	76.2		75.1		5.00	22	N	mg/L	SW-846 6010B	P
Lead	75	125	0.49		0	U	0.50	98		mg/L	SW-846 6010B	P
Magnesium	75	125	30.3		26.4		5.00	78		mg/L	SW-846 6010B	P
Manganese	75	125	1.30		0.83		0.50	94		mg/L	SW-846 6010B	P
Nickel	75	125	0.52		0.0010	B	0.50	103		mg/L	SW-846 6010B	P
Potassium	75	125	18.6		8.03		10.0	106		mg/L	SW-846 6010B	P
Selenium	75	125	0.30		0	U	0.50	60	N	mg/L	SW-846 6010B	P
Silver	75	125	0.51		0.00099	B	0.50	101		mg/L	SW-846 6010B	P
Sodium	75	125	32.4		11.1		20.0	107		mg/L	SW-846 6010B	P
Thallium	75	125	0.52		0	U	0.50	104		mg/L	SW-846 6010B	P
Vanadium	75	125	0.52		0	U	0.50	103		mg/L	SW-846 6010B	P
Zinc	75	125	6.82		6.65		0.50	35	N	mg/L	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224591

Orig Lab Sample ID 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5.52		0.095	B	5.00	108		mg/L	SW-846 6010B	P
Antimony	75	125	0.53		0.015		0.50	103		mg/L	SW-846 6010B	P
Arsenic	75	125	0.57		0.019		0.50	111		mg/L	SW-846 6010B	P
Barium	75	125	0.58		0.048	B	0.50	106		mg/L	SW-846 6010B	P
Beryllium	75	125	0.55		0.00019	B	0.50	109		mg/L	SW-846 6010B	P
Cadmium	75	125	0.50		0	U	0.50	99		mg/L	SW-846 6010B	P
Calcium	75	125	181		192		5.00	-228	N	mg/L	SW-846 6010B	P
Chromium	75	125	0.54		0.0035	B	0.50	107		mg/L	SW-846 6010B	P
Cobalt	75	125	0.53		0	U	0.50	106		mg/L	SW-846 6010B	P
Copper	75	125	0.63		0.079		0.50	109		mg/L	SW-846 6010B	P
Iron	75	125	75.3		75.1		5.00	6	N	mg/L	SW-846 6010B	P
Lead	75	125	0.44		0	U	0.50	89		mg/L	SW-846 6010B	P
Magnesium	75	125	28.4		26.4		5.00	40	N	mg/L	SW-846 6010B	P
Manganese	75	125	1.35		0.83		0.50	105		mg/L	SW-846 6010B	P
Nickel	75	125	0.53		0.0010	B	0.50	106		mg/L	SW-846 6010B	P
Potassium	75	125	19.9		8.03		10.0	119		mg/L	SW-846 6010B	P
Selenium	75	125	0.32		0	U	0.50	65	N	mg/L	SW-846 6010B	P
Silver	75	125	0.50		0.00099	B	0.50	100		mg/L	SW-846 6010B	P
Sodium	75	125	34.9		11.1		20.0	119		mg/L	SW-846 6010B	P
Thallium	75	125	0.55		0	U	0.50	109		mg/L	SW-846 6010B	P
Vanadium	75	125	0.53		0	U	0.50	106		mg/L	SW-846 6010B	P
Zinc	75	125	7.05		6.65		0.50	81		mg/L	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC4W050217 (...MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224707

Orig Lab Sample ID 20502180604

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.57		0.021	B	0.50	111		mg/L	SW-846 1311/6010	P
Barium	75	125	0.85	B	0.29	B	0.50	113		mg/L	SW-846 1311/6010	P
Cadmium	75	125	0.57		0	U	0.50	114		mg/L	SW-846 1311/6010	P
Chromium	75	125	0.53		0.0057	B	0.50	106		mg/L	SW-846 1311/6010	P
Lead	75	125	0.54		0	U	0.50	108		mg/L	SW-846 1311/6010	P
Selenium	75	125	0.60		0	U	0.50	119		mg/L	SW-846 1311/6010	P
Silver	75	125	0.57		0.0020	B	0.50	113		mg/L	SW-846 1311/6010	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC4W050217 ...MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224708

Orig Lab Sample ID 20502180604

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.59		0.021	B	0.50	114		mg/L	SW-846 1311/6010	P
Barium	75	125	0.86	B	0.29	B	0.50	113		mg/L	SW-846 1311/6010	P
Cadmium	75	125	0.58		0	U	0.50	115		mg/L	SW-846 1311/6010	P
Chromium	75	125	0.54		0.0057	B	0.50	106		mg/L	SW-846 1311/6010	P
Lead	75	125	0.55		0	U	0.50	110		mg/L	SW-846 1311/6010	P
Selenium	75	125	0.60		0	U	0.50	119		mg/L	SW-846 1311/6010	P
Silver	75	125	0.57		0.0020	B	0.50	114		mg/L	SW-846 1311/6010	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224595

Orig Lab Sample ID 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00422		0	U	0.00500	84		mg/L	SW-846 7470A	AV

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224596

Orig Lab Sample ID 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00435		0	U	0.00500	87		mg/L	SW-846 7470A	AV

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC4W050217 (...MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224712

Orig Lab Sample ID 20502180604

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00475		0	U	0.00500	95		mg/L	SW-846 1311/7470	AV

FORM V (PART 1) - IN

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC4W050217 ...MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224722

Orig Lab Sample ID 20502180604

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00473		0	U	0.00500	95		mg/L	SW-846 1311/7470	AV

FORM V (PART 1) - IN

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 224721

Orig Lab Sample ID 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Aluminum	75	125	5.09		0.095	B	5.00	100		mg/L	SW-846 6010B	P
Antimony	75	125	0.51		0.015	B	0.50	98		mg/L	SW-846 6010B	P
Arsenic	75	125	0.55		0.019	B	0.50	106		mg/L	SW-846 6010B	P
Barium	75	125	0.55		0.048		0.50	100		mg/L	SW-846 6010B	P
Beryllium	75	125	0.51		0.00019	B	0.50	102		mg/L	SW-846 6010B	P
Cadmium	75	125	0.48		0	U	0.50	97		mg/L	SW-846 6010B	P
Calcium	75	125	179		192		5.00	-270	N	mg/L	SW-846 6010B	P
Chromium	75	125	0.51		0.0035	B	0.50	101		mg/L	SW-846 6010B	P
Cobalt	75	125	0.50		0	U	0.50	99		mg/L	SW-846 6010B	P
Copper	75	125	0.56		0.079		0.50	96		mg/L	SW-846 6010B	P
Iron	75	125	74.7		75.1		5.00	-8	N	mg/L	SW-846 6010B	P
Lead	75	125	0.48		0	U	0.50	97		mg/L	SW-846 6010B	P
Magnesium	75	125	28.0		26.4		5.00	31	N	mg/L	SW-846 6010B	P
Manganese	75	125	1.31		0.83		0.50	95		mg/L	SW-846 6010B	P
Nickel	75	125	0.50		0.0010	B	0.50	100		mg/L	SW-846 6010B	P
Potassium	75	125	19.1		8.03		10.0	111		mg/L	SW-846 6010B	P
Selenium	75	125	0.52		0	U	0.50	104		mg/L	SW-846 6010B	P
Silver	75	125	0.51		0.00099	B	0.50	102		mg/L	SW-846 6010B	P
Sodium	75	125	32.5		11.1		20.0	107		mg/L	SW-846 6010B	P
Thallium	75	125	0.52		0	U	0.50	103		mg/L	SW-846 6010B	P
Vanadium	75	125	0.50		0	U	0.50	100		mg/L	SW-846 6010B	P
Zinc	75	125	6.94		6.65		0.50	58	N	mg/L	SW-846 6010B	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC4W050217 ...PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Lab Sample ID: 225267

Orig Lab Sample ID 20502180604

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.55	B	0	U	0.50	106		mg/L	SW-846 6010B	P
Barium	75	125	0.79		0.29	B	0.50	101		mg/L	SW-846 6010B	P
Cadmium	75	125	0.52		0	U	0.50	105		mg/L	SW-846 6010B	P
Chromium	75	125	0.49		0	U	0.50	97		mg/L	SW-846 6010B	P
Lead	75	125	0.50	B	0	U	0.50	99		mg/L	SW-846 6010B	P
Selenium	75	125	0.54	B	0	U	0.50	109		mg/L	SW-846 6010B	P
Silver	75	125	0.52		0	U	0.50	105		mg/L	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC2W050217DUP

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205021806

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224589

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Aluminum	0	20	0.095	B	0.13	B	31	*	mg/L	SW-846 6010B	P
Antimony	0	20	0.015		0	U	200	*	mg/L	SW-846 6010B	P
Arsenic	0	20	0.019		0.0069	B	93	*	mg/L	SW-846 6010B	P
Barium	0	20	0.048	B	0.046	B	4		mg/L	SW-846 6010B	P
Beryllium	0	20	0.00019	B	0	U	200	*	mg/L	SW-846 6010B	P
Cadmium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Calcium	0	20	192		173		10		mg/L	SW-846 6010B	P
Chromium	0	20	0.0035	B	0.0028	B	22	*	mg/L	SW-846 6010B	P
Cobalt	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Copper	0	20	0.079		0.080		1		mg/L	SW-846 6010B	P
Iron	0	20	75.1		69.2		8		mg/L	SW-846 6010B	P
Lead	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Magnesium	0	20	26.4		22.6		16		mg/L	SW-846 6010B	P
Manganese	0	20	0.83		0.81		2		mg/L	SW-846 6010B	P
Nickel	0	20	0.0010	B	0.00063	B	45	*	mg/L	SW-846 6010B	P
Potassium	0	20	8.03		8.10		.9		mg/L	SW-846 6010B	P
Selenium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Silver	0	20	0.00099	B	0	U	200	*	mg/L	SW-846 6010B	P
Sodium	0	20	11.1		11.0		.9		mg/L	SW-846 6010B	P
Thallium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Vanadium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Zinc	0	20	6.65		6.47		3		mg/L	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC4W050217...DUP

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205021806

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224706

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	0.021	B	0	U	200	*	mg/L	SW-846 6010B	P
Barium	0	20	0.29	B	0.30	B	3		mg/L	SW-846 6010B	P
Cadmium	0	20	0	U	0.0013	B	200	*	mg/L	SW-846 6010B	P
Chromium	0	20	0.0057	B	0.0062	B	8		mg/L	SW-846 6010B	P
Lead	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Selenium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Silver	0	20	0.0020	B	0.0015	U	29	*	mg/L	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC2W050217DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224594

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0	U	0	U	0		mg/L	SW-846 7470A	AV

FORM VI - IN

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC4W050217 ...DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224711

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0	U	0	U	0		mg/L	W-846 1311/7470A	AV

FORM VI - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224588

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Lab Sample ID: 224588

LCS Source: 334-21-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Aluminum	5.00	5.22	104	80	120	mg/L	SW-846 6010B	P
Antimony	0.50	0.52	104	80	120	mg/L	SW-846 6010B	P
Arsenic	0.50	0.55	110	80	120	mg/L	SW-846 6010B	P
Barium	0.50	0.53	105	80	120	mg/L	SW-846 6010B	P
Beryllium	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Cadmium	0.50	0.52	105	80	120	mg/L	SW-846 6010B	P
Calcium	5.00	5.03	101	80	120	mg/L	SW-846 6010B	P
Chromium	0.50	0.52	105	80	120	mg/L	SW-846 6010B	P
Cobalt	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Copper	0.50	0.53	107	80	120	mg/L	SW-846 6010B	P
Iron	5.00	5.25	105	80	120	mg/L	SW-846 6010B	P
Lead	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Magnesium	5.00	5.00	100	80	120	mg/L	SW-846 6010B	P
Manganese	0.50	0.52	104	80	120	mg/L	SW-846 6010B	P
Nickel	0.50	0.53	107	80	120	mg/L	SW-846 6010B	P
Potassium	10.0	11.1	111	80	120	mg/L	SW-846 6010B	P
Selenium	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Silver	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Sodium	20.0	22.0	110	80	120	mg/L	SW-846 6010B	P
Thallium	0.50	0.55	110	80	120	mg/L	SW-846 6010B	P
Vanadium	0.50	0.53	105	80	120	mg/L	SW-846 6010B	P
Zinc	0.50	0.52	104	80	120	mg/L	SW-846 6010B	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224705

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Lab Sample ID: 224705

LCS Source: 334-21-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Antimony	0.50	0.54	107	80	120	mg/L	W-846 1311/6010	P
Arsenic	0.50	0.58	117	80	120	mg/L	W-846 1311/6010	P
Barium	0.50	0.54	108	80	120	mg/L	W-846 1311/6010	P
Beryllium	0.50	0.53	106	80	120	mg/L	W-846 1311/6010	P
Cadmium	0.50	0.55	110	80	120	mg/L	W-846 1311/6010	P
Chromium	0.50	0.51	103	80	120	mg/L	W-846 1311/6010	P
Lead	0.50	0.53	106	80	120	mg/L	W-846 1311/6010	P
Nickel	0.50	0.52	105	80	120	mg/L	W-846 1311/6010	P
Selenium	0.50	0.59	117	80	120	mg/L	W-846 1311/6010	P
Silver	0.50	0.53	107	80	120	mg/L	W-846 1311/6010	P
Thallium	0.50	0.52	104	80	120	mg/L	W-846 1311/6010	P
Vanadium	0.50	0.52	104	80	120	mg/L	W-846 1311/6010	P
Zinc	0.50	0.56	112	80	120	mg/L	W-846 1311/6010	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224593

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205021806

Lab Sample ID: 224593

LCS Source: 136-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.00500	0.00475	95	80	120	mg/L	SW-846 7470A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224710

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205021806

Lab Sample ID: 224710

LCS Source: 136-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.00500	0.00489	98	80	120	mg/L	W-846 1311/7470	AV

FORM VII - IN

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Lab Code: LA024

Matrix: (soil/water) Water

Orig Lab Sample ID: 20502180605

Sample ID: 0583WC2W050217

SDG No.: 205021806

Lab Sample ID: 224590 / 224591

Analyte	LL - UL	Spiked Sample	C	Spiked Duplicate	C	RPD	Q	Units	Method	Type
Aluminum	0 - 20	5.51		5.52		0.2		mg/L	SW-846 6010B	P
Antimony	0 - 20	0.52		0.53		1.9		mg/L	SW-846 6010B	P
Arsenic	0 - 20	0.57		0.57		0.0		mg/L	SW-846 6010B	P
Barium	0 - 20	0.56		0.58		3.5		mg/L	SW-846 6010B	P
Beryllium	0 - 20	0.53		0.55		3.7		mg/L	SW-846 6010B	P
Cadmium	0 - 20	0.49		0.5		2.0		mg/L	SW-846 6010B	P
Calcium	0 - 20	186		181		2.7		mg/L	SW-846 6010B	P
Chromium	0 - 20	0.52		0.54		3.8		mg/L	SW-846 6010B	P
Cobalt	0 - 20	0.52		0.53		1.9		mg/L	SW-846 6010B	P
Copper	0 - 20	0.64		0.63		1.6		mg/L	SW-846 6010B	P
Iron	0 - 20	76.2		75.3		1.2		mg/L	SW-846 6010B	P
Lead	0 - 20	0.49		0.44		10.8		mg/L	SW-846 6010B	P
Magnesium	0 - 20	30.3		28.4		6.5		mg/L	SW-846 6010B	P
Manganese	0 - 20	1.3		1.35		3.8		mg/L	SW-846 6010B	P
Nickel	0 - 20	0.52		0.53		1.9		mg/L	SW-846 6010B	P
Potassium	0 - 20	18.6		19.9		6.8		mg/L	SW-846 6010B	P
Selenium	0 - 20	0.3		0.32		6.5		mg/L	SW-846 6010B	P
Silver	0 - 20	0.51		0.5		2.0		mg/L	SW-846 6010B	P
Sodium	0 - 20	32.4		34.9		7.4		mg/L	SW-846 6010B	P
Thallium	0 - 20	0.52		0.55		5.6		mg/L	SW-846 6010B	P
Vanadium	0 - 20	0.52		0.53		1.9		mg/L	SW-846 6010B	P
Zinc	0 - 20	6.82		7.05		3.3		mg/L	SW-846 6010B	P

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Sample ID: 05283WC4W050217

Lab Code: LA024

SDG No.: 205021806

Matrix: (soil/water) Soil

Lab Sample ID: 224707 / 224708

Orig Lab Sample ID: 20502180604

Analyte	LL - UL	Spiked Sample	C	Spiked Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0 - 20	0.57		0.59		3.4		mg/L	SW-846 1311/6010B	P
Barium	0 - 20	0.85		0.86		1.2		mg/L	SW-846 1311/6010B	P
Cadmium	0 - 20	0.57		0.58		1.7		mg/L	SW-846 1311/6010B	P
Chromium	0 - 20	0.53		0.54		1.9		mg/L	SW-846 1311/6010B	P
Lead	0 - 20	0.54		0.55		1.8		mg/L	SW-846 1311/6010B	P
Selenium	0 - 20	0.6		0.6		0.0		mg/L	SW-846 1311/6010B	P
Silver	0 - 20	0.57		0.57		0.0		mg/L	SW-846 1311/6010B	P

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Lab Code: LA024

Matrix: (soil/water) Water

Orig Lab Sample ID: 205020180605

Sample ID: 05283WC2W050217

SDG No.: 205021806

Lab Sample ID: 224595 / 224596

Analyte	LL - UL	Spiked Sample	C	Spiked Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0 - 15	0.00422		0.00435		3.0		mg/L	SW-846 7470A	AV

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Lab Code: LA024

Matrix: (soil/water) Soil

Orig Lab Sample ID: 205020180604

Sample ID: 05283WC4W050217

SDG No.: 205021806

Lab Sample ID: 224712 / 224722

Analyte	LL - UL	Spiked Sample	C	Spiked Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0 - 15	0.00475		0.00473		0.4		mg/L	SW-846 1311/ 7470A	AV

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 05283WC2W050217SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205021806

Level: (low / med)

Org Lab Sample ID: 20502180605

Lab Sample ID: 224720

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Aluminum			0.095	B	0	U	100.0		mg/L	SW-846 6010B	P
Antimony			0.015	B	0	U	100.0		mg/L	SW-846 6010B	P
Arsenic			0.019	B	0.079	B	315.8		mg/L	SW-846 6010B	P
Barium	0	10	0.048		0.053		10.4	E	mg/L	SW-846 6010B	P
Beryllium			0.00019	B	0	U	100.0		mg/L	SW-846 6010B	P
Cadmium			0	U	0	U			mg/L	SW-846 6010B	P
Calcium	0	10	192		176		8.3		mg/L	SW-846 6010B	P
Chromium			0.0035	B	0	U	100.0		mg/L	SW-846 6010B	P
Cobalt			0	U	0	U			mg/L	SW-846 6010B	P
Copper	0	10	0.079		0.021	B	73.4	E	mg/L	SW-846 6010B	P
Iron	0	10	75.1		70.9		5.6		mg/L	SW-846 6010B	P
Lead			0	U	0	U			mg/L	SW-846 6010B	P
Magnesium	0	10	26.4		22.0		16.7	E	mg/L	SW-846 6010B	P
Manganese	0	10	0.83		0.81		2.4		mg/L	SW-846 6010B	P
Nickel			0.0010	B	0	U	100.0		mg/L	SW-846 6010B	P
Potassium	0	10	8.03		8.42		4.9		mg/L	SW-846 6010B	P
Selenium			0	U	0	U			mg/L	SW-846 6010B	P
Silver			0.00099	B	0	U	100.0		mg/L	SW-846 6010B	P
Sodium	0	10	11.1		9.09		18.1	E	mg/L	SW-846 6010B	P
Thallium			0	U	0	U			mg/L	SW-846 6010B	P
Vanadium			0	U	0	U			mg/L	SW-846 6010B	P
Zinc	0	10	6.65		6.57		1.2		mg/L	SW-846 6010B	P

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 05283WC4W050217 (...SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205021806

Level: (low / med)

Org Lab Sample ID: 20502180604

Lab Sample ID: 225266

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			0.021	B	0	U	100.0		mg/L	SW-846 6010B	P
Barium	0	10	0.29	B	0.29	B	0.0		mg/L	SW-846 6010B	P
Cadmium			0	U	0.012	B			mg/L	SW-846 6010B	P
Chromium			0.0057	B	0	U	100.0		mg/L	SW-846 6010B	P
Lead			0	U	0	U			mg/L	SW-846 6010B	P
Selenium			0	U	0	U			mg/L	SW-846 6010B	P
Silver			0.002	B	0	U	100.0		mg/L	SW-846 6010B	P

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 205021806

Method: 3010A

Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283WC2W050217	02/20/05			50	mL
05283WC2W050217DUP	02/20/05			50	mL
05283WC2W050217MS	02/20/05			50	mL
05283WC2W050217MSD	02/20/05			50	mL
LCS224588	02/20/05			50	mL
MB224587	02/20/05			50	mL

FORM XIII - IN

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 205021806

Method: 3010A

Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283WC1W050217 (TCLP)	02/24/05			50	mL
05283WC4W050217 (...MS	02/24/05			50	mL
05283WC4W050217 (TCLP)	02/24/05			50	mL
05283WC4W050217 ...DUP	02/24/05			50	mL
05283WC4W050217 ...MSD	02/24/05			50	mL
LCS224705	02/24/05			50	mL
MB224704	02/24/05			50	mL

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024

Case No.:

SAS No.:

SDG No.: 205021806

Method: SW-846 7470A

Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283WC2W050217	02/20/05			20	mL
05283WC2W050217DUP	02/20/05			20	mL
05283WC2W050217MS	02/20/05			20	mL
05283WC2W050217MSD	02/20/05			20	mL
LCS224593	02/20/05			20	mL
MB224592	02/20/05			20	mL

PREPARATION LOG

Lab Name: GCAL

Sample ID:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205021806

Method: SW-846 7470A

Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283WC1W050217 (TCLP)	02/22/05			20	mL
05283WC4W050217 (...MS	02/22/05			20	mL
05283WC4W050217 (TCLP)	02/22/05			20	mL
05283WC4W050217 ...DUP	02/22/05			20	mL
05283WC4W050217 ...MSD	02/22/05			20	mL
LCS224710	02/22/05			20	mL
MB224709	02/22/05			20	mL

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/22/05

Instrument ID Number: ICP5 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	Zr
				Analyte Symbols																														
ICV	*	1	0926	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICB	*	1	0933	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CRDL	*	1	0945	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICSA	*	1	1003	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ICSAB	*	1	1009	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCV	*	1	1016	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1023	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
MB224587	*	1	1029	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
LCS224588	*	1	1036	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
05283WC2W050217	*	1	1043	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
05283WC2W050217MS	*	1	1057	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
05283WC2W050217MSD	*	1	1104	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
05283WC2W050217PDS	*	1	1112	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
05283WC2W050217SD	*	5	1119	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1132																															
CCV	*	1	1139	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1146	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
05283WC2W050217DUP	*	1	1153	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1200																															
CCV	*	1	1206	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1213	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCV	*	1	1345	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1352	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCV	*	1	1511	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1518	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1536																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1543																															

000348

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/22/05

Instrument ID Number: ICP5 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	Zr
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1550																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1558																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1605																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1612																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1619																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1627																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1634																															
CCV	*	1	1642	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1649	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1655																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1702																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1709																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1717																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1724																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1731																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1738																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1745																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1753																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1800																															
CCV	*	1	1807	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1814	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1821																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1828																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1835																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1842																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1850																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1857																															

0003349

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/22/05

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
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	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1904																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1911																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1918																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1926																															
CCV	*	1	1933	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	1940	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1947																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1954																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2001																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2008																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2015																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2023																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2030																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2037																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2044																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2052																															
CCV	*	1	2059	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	2106	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		25	2113																															
CCV	*	1	2119	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	
CCB	*	1	2126	X	X	X	X	X		X	X	X	X	X	X	X		X	X			X	X	X		X	X		X			X	X	

000350

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/24/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/24/05

Instrument ID Number: ICP2 Method: SW-846 1311/60 Method Type: P

				Analyte Symbols																														
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	Zr
ICV	*	1	0904			X	X			X		X				X								X		X								
ICB	*	1	0909			X	X			X		X				X								X		X								
CRDL	*	1	0919			X	X			X		X				X								X		X								
ICSA	*	1	0924			X	X			X		X				X								X		X								
ICSAB	*	1	0929			X	X			X		X				X								X		X								
CCV	*	1	0934			X	X			X		X				X								X		X								
CCB	*	1	0939			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0944																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0949																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0954																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0959																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1005																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1010																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1016																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1021																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1026																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1031																															
CCV	*	1	1036			X	X			X		X				X								X		X								
CCB	*	1	1041			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1045																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1050																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1055																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1100																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1105																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1110																															
CCV	*	1	1115			X	X			X		X				X								X		X								
CCB	*	1	1120			X	X			X		X				X								X		X								

000351

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/24/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/24/05

Instrument ID Number: ICP2 Method: SW-846 1311/60 Method Type: P

				Analyte Symbols																															
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	Zr
CCV	*	1	1229			X	X			X		X				X								X		X								
CCB	*	1	1234			X	X			X		X				X								X		X								
MB224704	*	1	1239		X	X	X	X		X		X				X						X		X		X			X			X	X	
LCS224705	*	1	1244		X	X	X	X		X		X				X						X		X		X			X			X	X	
05283WC4W050217 (TCLP)	*	1	1249			X	X			X		X				X								X		X								
05283WC4W050217 ...DUP	*	1	1254		X	X	X	X		X		X				X						X		X		X			X			X	X	
05283WC4W050217 (...MS	*	1	1300		X	X	X	X		X		X				X						X		X		X			X			X	X	
05283WC4W050217 ...MSD	*	1	1305		X	X	X	X		X		X				X						X		X		X			X			X	X	
05283WC4W050217 ...PDS	*	1	1311	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X		X		X	X	X	X	X	X	X
05283WC4W050217 (...SD	*	5	1316	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X		X	X		X		X		X	X	X	X	X	X	X
05283WC1W050217 (TCLP)	*	1	1321			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1327																															
CCV	*	1	1332			X	X			X		X				X								X		X								
CCB	*	1	1337			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1341																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1346																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1351																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1356																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1401																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1406																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1411																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1416																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1421																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1426																															
CCV	*	1	1431			X	X			X		X				X								X		X								
CCB	*	1	1436			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1441																															

000352

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/24/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/24/05

Instrument ID Number: ICP2 Method: SW-846 1311/60 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	Zr
				Analyte Symbols																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1446																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1452																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1457																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1502																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1507																															
CCV	*	1	1512			X	X			X		X				X								X		X								
CCB	*	1	1517			X	X			X		X				X								X		X								

000353

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/23/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205021806 End Date: 02/23/05

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

				Analyte Symbols																													
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	Zr
ICV	*	1	1446																	X														
ICB	*	1	1447																	X														
CCV	*	1	1449																	X														
CCB	*	1	1451																	X														
MB224592	*	1	1452																	X														
LCS224593	*	1	1454																	X														
05283WC2W050217	*	1	1456																	X														
05283WC2W050217DUP	*	1	1458																	X														
05283WC2W050217MS	*	1	1459																	X														
05283WC2W050217MSD	*	1	1501																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1503																															
MB224709	*	1	1504																															
LCS224710	*	1	1506																	X														
05283WC4W050217 (TCLP)	*	1	1508																	X														
CCV	*	1	1510																	X														
CCB	*	1	1511																	X														
05283WC4W050217 ...DUP	*	1	1513																	X														
05283WC4W050217 (...MS	*	1	1515																	X														
05283WC4W050217 ...MSD	*	1	1517																	X														
05283WC1W050217 (TCLP)	*	1	1519																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1520																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1522																															
CCV	*	1	1524																	X														
CCB	*	1	1526																	X														

0000354

TCLP EXTRACTIONS

DATE: 2/16/5

BATCH # 287681

ANALYST: GCJ

Sample Number:	216+B1K	20502164301	20502163501				
Sample Description		Mud	ROCK				
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓				
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓				
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0				
Actual volume of water (96.5± 1mL)		97	97				
Initial pH (After 5 min. mixing) "pH-1"		855	244				
√ If pH >5, if 3.5 mL 1N HCl added		✓					
√ If heated and held at 50°C for 10 minutes		✓					
Second pH "pH-2"		147					
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓				
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓				
Weight of Solids to be Extracted (X)		100	100				
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000	2000				
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700	1700				
Stop Time	900	900	900				
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	5.45	3.11				

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-1A-2

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

000355

000039

TCLP EXTRACTIONS

DATE: 2-17-5 BATCH # 287703 ANALYST: JPA

Sample Number:	20502172009	0217tblk					
Sample Description	sludge	Ext.1					
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)	√						
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)							
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)	√						
Actual Weight of subsample (5.0± 0.1g)	5.0						
Actual volume of water (96.5± 1mL)	97						
Initial pH (After 5 min. mixing) "pH-1"	6.72						
√ If pH >5, if 3.5 mL 1N HCl added	√						
√ If heated and held at 50°C for 10 minutes	√						
Second pH "pH-2"	1.18						
If pH-1 or pH-2 <5.0 use Fluid 1 (√)	√						
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)	√						
Weight of Solids to be Extracted (X)	100						
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X	2000	2000					
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1700	1700					
Stop Time	900	900					
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	4.97	4.89					

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 21.0 **Maximum °C:** 23.0

EXTRACTION FLUID #1 pH and ID: 131-64-2 (4.90)

EXTRACTION FLUID #2 pH and ID:

Secondary Review: SKB

000356

TCLP EXTRACTIONS

DATE: 2-21-5 BATCH # 287815 ANALYST: GCJ

Sample Number:	221TB1K	20502180602	20502180604	20502151401	20502180301	20502211902	
Sample Description	MB	Soil/Sand	Soil/Sand	RESIN	Sticks	CARBON	
1.VISUAL SAMPLE EVALUATION							
100% solid (Skip to 3)* (√)		✓	✓	✓	✓	✓	
Sample is <100% (√)							
2. FILTRATION(Pressure Filtration is Required if Solids are ≥ 10%)							
Filter Weight (F)				VOID			
Filtrate Vessel Weight (V)							
Subsample Weight (100 g minimum) (S)							
Weight of Liquid Phase (V+liquid)-V (L)							
Weight of Solid Phase (S-L) (SP)							
% Solids (SP/S) x 100 * (%S)							
%Dry Solids = [(Dried SP-F)/S] x 100* (%DS)							
3.EXTRACTION FLUID DETERMINATION							
Particle Size Reduced (app. 1mm) (√)		✓	✓	✓	✓	✓	
Actual Weight of subsample (5.0± 0.1g)		5.0	5.0	5.0	5.0	5.0	
Actual volume of water (96.5± 1mL)		97	97	97	97	97	
Initial pH (After 5 min. mixing) "pH-1"		867	931	929	458	653	
√ If pH >5, if 3.5 mL 1N HCl added		✓	✓	✓		✓	
√ If heated and held at 50°C for 10 minutes		✓	✓	✓		✓	
Second pH "pH-2"		155	157	179		138	
If pH-1 or pH-2 <5.0 use Fluid 1 (√)		✓	✓	✓	✓	✓	
If pH-2 >5.0 use Fluid 11 (√)							
4. PREPARATION FOR EXTRACTION PROCEDURE*							
Particle Size Reduced (95. mm max) (√)		✓	✓		✓	✓	
Weight of Solids to be Extracted (X)							
Filtrate Vessel Weight (multiphasic) (EV)							
Weight of Filtrate + Vessel (multiphasic) (EF)							
Amount of Fluid Needed = 20 x X							
5. TCLP ROTATION (Rotate for 18 ± 2 hours at 23 ± 2°C and 30 ± 2 rpm)							
Start Time	1600	1600	1600	1600	1600	1600	
Stop Time	800	800	800	800	800	800	
6. FINAL TCLP EXTRACT							
If the phases will be analyzed separately, determine the volume of each phase:							
Volume Extract obtained in Step 5 (EF-EV)							
Volume filtrate from Step 4 (L)							
pH of TCLP Extract (If two phase,record pH for each phase)	500	630	634		490	511	

*** If sample is <0.5 %S or <0.5 %DS; Filter sample , collect filtrate and skip to 6. If sample is 100% solid, use 100 grams sample and 2000mLs fluid.**

%DS is only performed if it is suspected that after drying, the %S will be <0.5%.

Temperature: Minimum °C: 20.5 **Maximum °C:** 24.5

EXTRACTION FLUID #1 pH and ID: 131-64-3 497

EXTRACTION FLUID #2 pH and ID:

Secondary Review:

000357

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180601	05283WC1W050217	Solid	02/17/2005 11:50	02/18/2005 09:20

2540 G Total Moisture - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 14:32	LMC2	287740

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	Total Moisture	8.02	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180602	05283WC1W050217 (TCLP)	Solid	02/17/2005 11:50	02/18/2005 09:20

9045C Solid - pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 13:30	OLT	287716

CAS#	Parameter	Result	RDL	MDL	Units
pH	pH	7.53	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180602	05283WC1W050217 (TCLP)	Solid	02/17/2005 11:50	02/18/2005 09:20

1030 Flashpoint

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/23/2005 10:55	LMC2	287897

CAS#	Parameter	Result	RDL	MDL	Units
000000-01-7	Ignitable	NO			

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180603	05283WC4W050217	Solid	02/17/2005 15:45	02/18/2005 09:20

2540 G Total Moisture - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 14:32	LMC2	287740

CAS#	Parameter	Result	RDL	MDL	Units
WET-037	Total Moisture	6.98	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180604	05283WC4W050217 (TCLP)	Solid	02/17/2005 15:45	02/18/2005 09:20

9045C Solid - pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 13:30	OLT	287716

CAS#	Parameter	Result	RDL	MDL	Units
pH	pH	8.09	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180604	05283WC4W050217 (TCLP)	Solid	02/17/2005 15:45	02/18/2005 09:20

1030 Flashpoint

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/23/2005 10:55	LMC2	287897

CAS#	Parameter	Result	RDL	MDL	Units
000000-01-7	Ignitable	NO			

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180605	05283WC2W050217	Water	02/17/2005 12:15	02/18/2005 09:20

1010 Flashpoint

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/24/2005 13:45	LMC2	287973

CAS#	Parameter	Result	RDL	MDL	Units
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180605	05283WC2W050217	Water	02/17/2005 12:15	02/18/2005 09:20

4500 H+B Water - pH

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/18/2005 13:40	OLT	287733

CAS#	Parameter	Result	RDL	MDL	Units
pH	pH	6.63	1.00	1.00	pH unit

RESULTS REPORTED ON A WET WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 287740	**Client ID**	INITIAL VERIFICATION WEEKLY	223621DUP
Prep Batch N/A	**GCAL ID**	20502151601	224330
	Sample Type	SAMPLE	DUP
	Analytical Date	02/18/2005 14:32	02/18/2005 14:32
	Matrix	Solid	Solid

2540 G Total Moisture - Solid		**Units**	**%**	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
WET-037	Total Moisture	1.31	0.010	1.35	3	25

000366

General Chemistry Quality Control Summary

Analytical Batch 287716	**Client ID**	POND SILT(TCLP)		223835DUP		
Prep Batch N/A	**GCAL ID**	20502164301		224202		
	Sample Type	SAMPLE		DUP		
	Analytical Date	02/18/2005 08:00		02/18/2005 08:00		
	Matrix	Solid		Solid		
9045C Solid - pH		**Units**	pH unit	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
pH	pH	7.51	1.00	7.53	0.3	6

Analytical Batch 287716	**Client ID**	05283WC1W050217 (TCLP)		224286DUP		
Prep Batch N/A	**GCAL ID**	20502180602		224332		
	Sample Type	SAMPLE		DUP		
	Analytical Date	02/18/2005 13:30		02/18/2005 13:30		
	Matrix	Solid		Solid		
9045C Solid - pH		**Units**	pH unit	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
pH	pH	7.53	1.00	7.55	0.3	6

000367

General Chemistry Quality Control Summary

Analytical Batch 287733	**Client ID**	05283WC2W050217	224293DUP
Prep Batch N/A	**GCAL ID**	20502180605	224318
	Sample Type	SAMPLE	DUP
	Analytical Date	02/18/2005 13:40	02/18/2005 13:40
	Matrix	Water	Water

4500 H+B Water - pH		**Units**	pH unit	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
pH	pH	6.63	1.00	6.64	0.2	6

000368

TOTAL SOLIDS AND MOISTURE ANALYSIS (SOLID MATRIX)

HBN	TM 287740	TS 287741	DW 287792	ANALYST:	LMC2						DATE:	2/18/2005
SOLI	4732	4733	4736	* REVIEW:	CAE	2/23/05					TIME:	14:32:00
Sample ID	Pan ID	Pan Mass (g)	Initial Mass (g) (Sample & Pan)	Final Wt. 1 (g) (Sample & Pan)	Final Wt. 2 (g) (Sample & Pan)	Diff (g)	Final Wt. 3 (g) (Sample & Pan)	Diff (g)	Initial Mass Less Pan (g)	Final Mass Less Pan (g)	Total Solid %	Total Moisture %
20502151601	1	0.9690	10.9824	10.8578	10.8508	0.0070	NA	0.0000	10.0134	9.8818	98.69	1.31
224330 Dup	2	0.9688	11.1781	11.0556	11.0405	0.0151	NA	0.0000	10.2093	10.0717	98.65	1.35
20502180501	3	0.9683	10.3900	10.1876	10.1848	0.0028	NA	0.0000	9.4217	9.2165	97.82	2.18
20502180601	5	0.9678	11.2058	10.3936	10.3849	0.0087	NA	0.0000	10.2380	9.4171	91.98	8.02
20502180603	6	0.9715	11.2007	10.4929	10.4864	0.0065	NA	0.0000	10.2292	9.5149	93.02	6.98

TS − OG = Tsm

98.69 − 0.063 = 98.627 20502151601

98.65 − 0.063 = 98.587 20502151601 Dup

TS % = ((Final Sample Mass - Initial Sample Mass) x 100) / Initial Sample Mass

TM % = 100-TS%

Method 2540G

000369

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

pH LOGBOOK

Date: 2-18-5

Slope Limits: 92-108

	Calibration Time	Analyst	Calibration Levels 1	2	3	Slope	QC Check Actual	Found
1	6:35	OUT	4.00	7.00	10.00	96.0	5.00	5.05
2								
3								
4								
5								
6								

pH RESULTS

HBN #: 287733 ✓

	Client	Sample ID	Time	Analyst	Result 1	Result 2	Result 3
1		205021806 05	13:40	OUT	6.63	6.62	
2		205021806 05 OUT			6.64	6.64	
3		205021820 01	16:00		7.89	7.87	
4		205021820 02			9.19	9.21	
5		205021820 03			7.24	7.26	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

2-18-5

Result 1 - Aliquot 1 (Repeat with successive aliquots of each sample until results agree within 0.1 pH units)
Result 2 - Aliquot 2
Result 3 - Aliquot 3

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

pH LOGBOOK

Date: 02-18-05

Slope Limits: 92-108

	Calibration Time	Analyst	Calibration Levels 1	2	3	Slope	QC Check Actual	Found
1	6:45	OY	4.00	7.00	10.00	96.5	5.00	5.04
2								
3								
4								
5								
6								

pH RESULTS

HBN #: 287716

	Client	Sample ID	Time	Analyst	Sample wt (g)	ml DI	Result
1		205021634 01	08:00	OY	20	20	7.51
2		205021634 01 DUP			20	20	7.53
3		205021803 01	13:30		20	20	5.35
4		205021806 02			20	20	7.53
5		205021806 02 DUP			20	20	7.55
6		205021806 04			20	20	8.09
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Ignitability of Solids

SW-846 1030

Analyst: Lme2
Date: 2/23/05
Time: 1055

HBN: 287897

Hood Velocity: 200 ft/min
Ambient Temp: 67.5/68.5

Sample #: 20502180608

Material Description:
Paste — Metallic
Powder — Non-metallic

Powder Size (pick one):
Fine — Sand
Granular — Soil

Preliminary Burn Time

NO

Time Elapsed From Application of Flame and Ignition	Burn Time	Burn Rate = 100 mm/Burn Time

Ignitability (circle one): Ignitable Non-ignitable

0003772

Pg 1 of 2

CAE 2/23/05

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

Ignitability of Solids

SW-846 1030

Analyst: LMR
Date: 2/23/05
Time: 1055

HBN: 287897

Hood Velocity:
Ambient Temp:

Sample #: 20502180604

Material Description:
Paste — Metallic
Powder — Non-metallic

Powder Size (pick one):
Fine
Granular
~~Sand~~
Soil

NC **Preliminary Burn Time**

Time Elapsed From Application of Flame and Ignition	Burn Time	Burn Rate = 100 mm/Burn Time

Ignitability (circle one): Ignitable Non-ignitable

Pg 2 of 2

CAE 2/23/05

0003773

FLASHPOINT
METHOD SW-846 1010

Analyst: LMC2
Date: 2/24/05
Time: 1345

HBN: 287971/287973

Room Temp: 68.2
Thermometer ID: E 8

Sample ID	Preliminary (Duplicate) Flashpoint Temp °F	Flashpoint Temp °F	Log-In Matrix	True Matrix	Stir(Y/N)
QC o-Xylene Lot # 042288	N/A	90°	N/A	N/A	N/A
20502180504	>212	>212	Solid	Solid	N
20502180605	>212	>212	Water	Water	Y
20502180301	>212		Solid	Solid	N
20502181201	>212		Water	Water	Y

QC Control Limits= 98-102%
(90 ± 2°F)

Analyst Review: LMC 2/24/05
Secondary Review: CAE 2/24/05

0003374

CH2MH:11/4380/205021806/2-25-05

CH2M Hill 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
248799-062 (3 of 3)

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.S. Cecil Field	248799	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
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.):
Building 238 Drum and Stained Soil Removal	CTO 0005	802231	Russell Henderson CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT 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, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		

ANALYSES REQUIRED (Include Method)

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)	TCLP Volatiles by 1311/8260B	TCLP Semi-volatiles by 1311/8270C; TCLP Herbicides by 1311/8151ATCLP Herbicides by 1311/8151A; TCLP Pesticides by 1311/8081A: PCBs by 8082; TCLP Metals by 1311/6010B/7470 A; Corrosivity by 9045a; Ignitability by 1010/1020	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	05283WC1W050217	Soil Characterization from Excavation at Building 238	S	02/17/05	11:50	B	7 Day	1	1	Comp		TCLP 1, 2
2	05283WC4W050217	Soil Characterization from Drum	S	02/17/05	15:45	B	7 Day	1	1	Comp		3, 4
3												
4												
5												
6												
7												
8												
9												
10												

g

COURIER AND SHIPPING NUMBER:

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

Randy Dumaop / Greg Ramey / Jeff Marks
CH2M HILL Constructors, Inc.

FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	02/17/2005	18:00	Printed Name and Signature: FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754	02/17/2005	18:00
Printed Name and Signature: FedEx 790922916743 790922916754 790922916802 790922916721	2-18-05	0920	Printed Name and Signature: Lan Navaille	2-18-05	0920

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

Form CCI001, Rev 02/00

000375

CH2MH.11/4380/205021006/2-25-05

CH2M Hill 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
248799-062 (1 of 3)

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.S. Cecil Field	248799	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
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.):
Building 238 Drum and Stained Soil Removal	CTO 0005	802231	Russell Henderson CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT 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, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		3

ANALYSES REQUIRED (Include Method)

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)	TCL Volatiles by 8260B	TCL Semi-volatiles by 8270C	TCL Herbicides by 8151A	Pesticides by 8081A: PCBs by 8082	TAL Metals by 6010B/7470A	Corrosivity by 9045a; Ignitability by 1010/1020		SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	05283WC2W050217	Liquid Characterization of Drum with Water and PPE	W	02/17/05	12:15	B	7 Day	3	2	2	2	1	1		Grab		-5
2	05283TB1W050217	Trip Blank	W	NA	NA	B	7 Day	3								Prepared by Lab	-6
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

g	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Greg Ramey / Jeff Marks CH2M HILL Constructors, Inc.	FedEx Tracking Numbers:790922916721, 790922916743, 790922916802, 790922916754	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Jeff Marks, CH2M HILL Constructors, Inc.	02/17/2005	18:00	Printed Name and Signature: FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754	02/17/2005	18:00
Printed Name and Signature: Fedex 790922916743 790922916754 790922916802 790922916721	2-18-05	0920	Printed Name and Signature: Lani Naville	2-18-05	0920

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

Form CCI001, Rev 02/00

000376

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	205021806	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	Former N.S. CECIL FIELD	**Status:**	WP
Project Seq:	27668	**Created:**	2/18/2005 12:11
Client:	4380 - CH2M Hill Constructors	**QA:**	
Profile:	67690 - CTO 5/R3 - Former N.S. CECIL FIELD	**PO:**	802231

WORKORDER SAMPLES

			pH PRESERVATIVE			VOA HEADSPACE			
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180601-1	16	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180602-1	4	NONE			X			X	OK
20502180602-2	16	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180603-1	16	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180604-1	4	NONE			X			X	OK
20502180604-2	16	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180605-1	40	HCL+STS			✓	✓			OK
20502180605-10	16	NONE			X			X	OK
20502180605-2	40	HCL+STS			✓	✓			OK
20502180605-3	LA	NONE			X			X	OK
20502180605-4	LA	NONE			X			X	OK
20502180605-5	OC	HNO3	✓					X	OK
20502180605-6	LA	NONE			X			X	OK
20502180605-7	LA	NONE			X			X	OK
20502180605-8	LA	NONE			X			X	OK
20502180605-9	LA	NONE			X			X	OK
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180606-1	40	HCL+STS			✓	✓			OK
20502180606-2	40	HCL+STS			✓	✓			OK

pH PRESERVATIVE VOA HEADSPACE

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_____ CUSTODIAN_____

NELAP CERTIFICATE NUMBER 01955

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 03/01/2005

GCAL Report 205022104

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 Former N.S. CECIL FIELD

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: CH2M Hill Constructors **Report:** 205022104

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.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the SW-846 8081A analysis for prep batch 287768, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS and/or LCSD. This is attributed to a matrix interference.

In the SW-846 8081A analysis for HBN 288152, the surrogate recovery for Decachlorobiphenyl was below QC limits in both the MS and MSD indicating a matrix interference with this surrogate recovery.

METALS

In the SW-846 6010B analysis the sample/duplicate RPD for Cadmium for prep batch 287790 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. The MS/MSD recoveries and RPD are not applicable for Barium and Silver because the sample concentration is greater than four times the spike concentration.

In the SW-846 7471A analysis the sample/duplicate RPD for Mercury for prep batch 287791 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

In the SW-846 6010B analysis for prep batch 287795, the MS and MSD recoveries were outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 104%. The sample/duplicate RPD for Silver, Chromium, and Arsenic is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

Barium is flagged as estimated for samples associated with prep batch 287795 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than 10. A chemical or physical interference is suspected.

CONVENTIONALS

The SW-846 Flashpoint analysis for sample 20502180504 (05283GCP050217) was performed by Method 1010; although, solid samples do not fall within the scope of this

method.

In the 9020B analysis, a chemical or physical interference necessitated a dilution for sample 20502180505 (05283LOP050217). This is reflected in the elevated reporting limits.

MISCELLANEOUS

Sample 20502180505 (05283LOP050217), Container ID (20502180505-1 (8 OZ (250 ML) (CLEAR GLASS)) had to be preserved at the laboratory with Sodium Sulfite, and Container ID (20502180505-3 (8 OZ (250 ML) (CLEAR GLASS)) had to be preserved at the laboratory with HNO3 at Lab. The containers were used to analyze 9020B Total Organic Halides, SW-846 6010B ICP, and SW-846 7470A Mercury.

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 205022104

THIS REPORT CONTAINS 231 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180504	05283GCP050217	Solid	02/17/2005 10:00	02/18/2005 09:20
20502180505	05283LOP050217	Water	02/17/2005 10:15	02/18/2005 09:20

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 1 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283GCP050217
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 20502180504
Date Collected: 02/17/05 Time: 1000
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0756
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15051

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1200	U	90.6	1200
11104-28-2	Aroclor-1221	1200	U	275	1200
11141-16-5	Aroclor-1232	1200	U	302	1200
53469-21-9	Aroclor-1242	1200	U	352	1200
12672-29-6	Aroclor-1248	1200	U	234	1200
11097-69-1	Aroclor-1254	1200	U	195	1200
11096-82-5	Aroclor-1260	1200	U	90.6	1200

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: 05283LOP050217
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 20502180505
Date Collected: 02/17/05 Time: 1015
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 2353
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B023

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: MB224684
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224684
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1705
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050228P/SV15B004

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	1.00	U	0.120	1.00
11104-28-2	Aroclor-1221	1.00	U	0.230	1.00
11141-16-5	Aroclor-1232	1.00	U	0.200	1.00
53469-21-9	Aroclor-1242	1.00	U	0.250	1.00
12672-29-6	Aroclor-1248	1.00	U	0.130	1.00
11097-69-1	Aroclor-1254	1.00	U	0.210	1.00
11096-82-5	Aroclor-1260	1.00	U	0.190	1.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: MB224435
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224435
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 1954
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B012

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	40.0	U	3.02	40.0
11104-28-2	Aroclor-1221	40.0	U	9.17	40.0
11141-16-5	Aroclor-1232	40.0	U	10.1	40.0
53469-21-9	Aroclor-1242	40.0	U	11.7	40.0
12672-29-6	Aroclor-1248	40.0	U	7.81	40.0
11097-69-1	Aroclor-1254	40.0	U	6.49	40.0
11096-82-5	Aroclor-1260	40.0	U	3.02	40.0

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: LCS224685
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224685
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1821
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B007

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4.14		0.120	1.00
11096-82-5	Aroclor-1260	4.24		0.190	1.00

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287818 Analytical Batch: 288159

Sample ID: LCSD224686
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224686
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1840
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B008

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	4.18		0.120	1.00
11096-82-5	Aroclor-1260	4.16		0.190	1.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: LCS224436
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224436
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 2013
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B013

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	128		3.02	40.0
11096-82-5	Aroclor-1260	134		3.02	40.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288159

Sample ID: LCSD224437
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224437
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 2127
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B017

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	136		3.02	40.0
11096-82-5	Aroclor-1260	141		3.02	40.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC4W050217MS
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224438
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0413
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15039

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	129		3.25	43.0
11104-28-2	Aroclor-1221	43.0	U	9.86	43.0
11141-16-5	Aroclor-1232	43.0	U	10.8	43.0
53469-21-9	Aroclor-1242	43.0	U	12.6	43.0
12672-29-6	Aroclor-1248	43.0	U	8.40	43.0
11097-69-1	Aroclor-1254	43.0	U	6.98	43.0
11096-82-5	Aroclor-1260	129		3.25	43.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287769 Analytical Batch: 288153

Sample ID: 05283WC4W050217MSD
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224439
Date Collected: 02/17/05 Time: 1545
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0432
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8082
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2050228P/SV15040

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
12674-11-2	Aroclor-1016	128		3.25	43.0
11104-28-2	Aroclor-1221	43.0	U	9.86	43.0
11141-16-5	Aroclor-1232	43.0	U	10.8	43.0
53469-21-9	Aroclor-1242	43.0	U	12.6	43.0
12672-29-6	Aroclor-1248	43.0	U	8.40	43.0
11097-69-1	Aroclor-1254	43.0	U	6.98	43.0
11096-82-5	Aroclor-1260	133		3.25	43.0

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8082

	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 .	05283LOP050217	43	34	135														0
2 .	MB224684	85	34	135														0
3 .	LCS224685	94	34	135														0
4 .	LCSD224686	93	34	135														0

SMC 1 : Decachlorobiphenyl SMC 2 :

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8082

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283GCP050217	56								0
2. MB224435	106								0
3. LCS224436	98								0
4. LCSD224437	103								0

	CONTROL LIMITS	
SMC 1 : Decachlorobiphenyl	56	159
SMC 2 :		

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8082

Prep Batch: 287818 Analytical Batch: 288159

SAMPLE NO : 224685

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/L	4	0	4.14	104		55 - 131
Aroclor-1260	ug/L	4	0	4.24	106		51 - 138

SAMPLE NO : 224686

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/L	4	4.18	105		1		55 - 131	0 - 35
Aroclor-1260	ug/L	4	4.16	104		2		51 - 138	0 - 34

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC4W050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288153

Spike HSN : 224438

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	143	0	129	90		40 - 154
Aroclor-1260	ug/kg	143	0	129	90		40 - 168

Spike Dupe HSN : 224439

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	143	128	89		.8		40 - 154	0 - 43
Aroclor-1260	ug/kg	143	133	93		3		40 - 168	0 - 50

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288159

Spike HSN : 224436

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Aroclor-1016	ug/kg	133	0	128	96		62 - 124
Aroclor-1260	ug/kg	133	0	134	101		62 - 129

Spike Dupe HSN : 224437

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Aroclor-1016	ug/kg	133	136	102		6		62 - 124	0 - 31
Aroclor-1260	ug/kg	133	141	106		5		62 - 129	0 - 36

RPD : 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224684

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224684

SAS No.: SDG No.: 205022104

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/28/05 Time (1): 1705

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Prep Batch: 287818 Analytical Batch: 288159

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224685	224685	02/28/05	1821		
2.	LCSD224686	224686	02/28/05	1840		
3.	05283LOP050217	20502180505	02/28/05	2353		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224435

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224435

SAS No.: SDG No.: 205022104

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 02/21/05

Date Analyzed (1): 02/28/05 Time (1): 1954

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8082

Prep Batch: 287769 Analytical Batch: 288159

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224436	224436	02/28/05	2013		
2.	LCSD224437	224437	02/28/05	2127		
3.	05283GCP050217	20502180504	03/01/05	0756		

Report Date : 04-Mar-2005 16:08

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15.i/2050226.b/sv15015.d
Level 2: /var/chem/gcsv15.i/2050226.b/sv15016.d
Level 3: /var/chem/gcsv15.i/2050226.b/sv15017.d
Level 4: /var/chem/gcsv15.i/2050226.b/sv15018.d
Level 5: /var/chem/gcsv15.i/2050226.b/sv15019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
	2 alpha-BHC	5802750	5871322	6239122	4605727	6271058	5757996	11.770
	3 gamma-BHC (Lindane)	5404696	5249965	5534554	4797525	5562808	5309910	5.877
	4 Heptachlor	5666752	5735025	6235057	5732132	5844931	5842780	3.910
	5 Aldrin	5155331	4774825	5007626	4540801	4991157	4893948	4.895
	6 beta-BHC	2774555	2471670	2589879	2623242	2582699	2608409	4.179
	7 delta-BHC	3964169	3828655	3773808	3185480	4295974	3809617	10.595
	8 Heptachlor epoxide	4547818	4410898	4455664	3972812	4430949	4363628	5.149
	9 Endosulfan I	3840572	4154514	4224247	3866976	4198292	4056920	4.618
	10 gamma-Chlordane	4575698	4688534	4610682	4073454	4619873	4513648	5.527
	11 alpha-Chlordane	4350575	4342060	4367285	3690925	4410230	4232215	7.177
	12 4,4'-DDE	4464808	4488272	4539022	3893551	4536355	4384402	6.300
	13 Dieldrin	4570829	4533114	4628729	4020759	4626206	4475927	5.755
	14 Endrin	3567297	3509706	3523031	2994213	3608372	3440524	7.339
	15 4,4'-DDD	3774601	3870738	3888849	3255059	3868792	3731608	7.239
	16 Endosulfan II	3784764	3813586	3835173	3324613	3849339	3721495	5.997
	17 4,4'-DDT	3097663	3160207	3201611	2655680	3322684	3087569	8.260
	18 Endrin aldehyde	2910471	2920386	2869436	2422833	2860322	2796690	7.529
	19 Methoxychlor	1615778	1569794	1544233	1233379	1578317	1508300	10.330
	20 Endosulfan sulfate	3199384	3252535	3234710	2655262	3293024	3126983	8.502
	21 Endrin ketone	3614249	3641770	3724348	3034988	3764365	3555944	8.366
M	23 AR 1016-AVG	919936	888675	823360	799592	761575	838628	7.730
	24 AR 1016-PEAK1	90013	85247	74285	90000	78498	83609	8.406
	25 AR 1016-PEAK2	236792	226822	208395	192418	183532	209592	10.701
	26 AR 1016-PEAK3	442021	434422	407148	389615	377020	410045	6.825
	27 AR 1016-PEAK4	151111	142185	133532	127559	122524	135382	8.451
M	28 AR 1260-AVG	1118071	1075783	1046151	1048428	1035070	1064701	3.136

Report Date : 04-Mar-2005 16:08

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	150819	138101	137412	133017	127159	137302	6.356
	30 AR 1260-PEAK2	230317	219555	209237	204625	202710	213289	5.410
	31 AR 1260-PEAK3	269488	259130	249622	248733	244939	254382	3.904
	32 AR 1260-PEAK4	467448	458996	449880	462052	460262	459728	1.388
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	208008	+++++	+++++	208008	0.000
	38 AR 1221-PEAK1	+++++	+++++	13645	+++++	+++++	13645	0.000
	39 AR 1221-PEAK2	+++++	+++++	57875	+++++	+++++	57875	0.000
	40 AR 1221-PEAK3	+++++	+++++	34874	+++++	+++++	34874	0.000
	41 AR 1221-PEAK4	+++++	+++++	101614	+++++	+++++	101614	0.000
M	42 AR 1232-AVG	+++++	+++++	443847	+++++	+++++	443847	0.000
	43 AR 1232-PEAK1	+++++	+++++	101958	+++++	+++++	101958	0.000
	44 AR 1232-PEAK2	+++++	+++++	102998	+++++	+++++	102998	0.000
	45 AR 1232-PEAK3	+++++	+++++	173802	+++++	+++++	173802	0.000
	46 AR 1232-PEAK4	+++++	+++++	65088	+++++	+++++	65088	0.000
M	47 AR 1242-AVG	+++++	+++++	687204	+++++	+++++	687204	0.000
	48 AR 1242-PEAK1	+++++	+++++	65267	+++++	+++++	65267	0.000
	49 AR 1242-PEAK2	+++++	+++++	169829	+++++	+++++	169829	0.000
	50 AR 1242-PEAK3	+++++	+++++	329133	+++++	+++++	329133	0.000
	51 AR 1242-PEAK4	+++++	+++++	122975	+++++	+++++	122975	0.000
M	52 AR 1248-AVG	+++++	+++++	554539	+++++	+++++	554539	0.000
	53 AR 1248-PEAK1	+++++	+++++	78876	+++++	+++++	78876	0.000
	54 AR 1248-PEAK2	+++++	+++++	115836	+++++	+++++	115836	0.000
	55 AR 1248-PEAK3	+++++	+++++	156564	+++++	+++++	156564	0.000
	56 AR 1248-PEAK4	+++++	+++++	203263	+++++	+++++	203263	0.000
M	57 AR 1254-AVG	+++++	+++++	731294	+++++	+++++	731294	0.000
	58 AR 1254-PEAK1	+++++	+++++	78204	+++++	+++++	78204	0.000
	59 AR 1254-PEAK2	+++++	+++++	141400	+++++	+++++	141400	0.000
	60 AR 1254-PEAK3	+++++	+++++	290981	+++++	+++++	290981	0.000
	61 AR 1254-PEAK4	+++++	+++++	220709	+++++	+++++	220709	0.000

Report Date : 04-Mar-2005 16:08

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
M	62 TOXAPHENE-AVG	++++++	++++++	++++++	++++++	574543	574543	0.000
	63 TOXAPHENE-PEAK1	++++++	++++++	++++++	++++++	104230	104230	0.000
	64 TOXAPHENE-PEAK2	++++++	++++++	++++++	++++++	139641	139641	0.000
	65 TOXAPHENE-PEAK3	++++++	++++++	++++++	++++++	152774	152774	0.000
	66 TOXAPHENE-PEAK4	++++++	++++++	++++++	++++++	177898	177898	0.000
	67 TOXAPHENE-PEAK5	++++++	++++++	++++++	++++++	++++++	++++++	++++++
M	68 CHLORDANE-AVG	++++++	++++++	++++++	++++++	1514276	1514276	0.000
	69 CHLORDANE-PEAK1	++++++	++++++	++++++	++++++	199504	199504	0.000
	70 CHLORDANE-PEAK2	++++++	++++++	++++++	++++++	221659	221659	0.000
	71 CHLORDANE-PEAK3	++++++	++++++	++++++	++++++	510430	510430	0.000
	72 CHLORDANE-PEAK4	++++++	++++++	++++++	++++++	448048	448048	0.000
	73 CHLORDANE-PEAK5	++++++	++++++	++++++	++++++	134635	134635	0.000
M	74 AR 1268-AVG	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	75 AR 1268-PEAK1	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	76 AR 1268-PEAK2	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	77 AR 1268-PEAK3	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	78 AR 1268 PEAK4	++++++	++++++	++++++	++++++	++++++	++++++	++++++
M	79 AR 1262-AVG	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	80 AR 1262-PEAK1	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	81 AR 1262-PEAK2	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	82 AR 1262-PEAK3	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	83 AR 1262-PEAK4	++++++	++++++	++++++	++++++	++++++	++++++	++++++
$	1 Tetrachloro-m-xylene	6163952	4909541	4768677	4214094	5835291	5178311	15.488
$	22 Decachlorobiphenyl	3588431	3237012	3157804	2482357	3274882	3148097	12.915

Report Date : 04-Mar-2005 16:08

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:26
End Cal Date	: 26-FEB-2005 17:42
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date	: 04-Mar-2005 10:46 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.18817186                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15.i/2050226.b/sv15024.d
Report Date: 26-Feb-2005 20:19

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: pcbicv.spk
Sublist File: pcbicv.sub
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
M 23 AR 1016-AVG	400	350	88.32	85-115
M 28 AR 1260-AVG	400	370	91.36	85-115

Data File: /var/chem/gcsv15.i/2050228p.b/sv15036.d
Report Date: 01-Mar-2005 15:07

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15036.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 03:17
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	838628	824613	0.010	1.67109	15.00000	Averaged
	24 AR 1016-PEAK1	83609	87370	0.010	-4.49859	15.00000	Averaged
	25 AR 1016-PEAK2	209592	204993	0.010	2.19411	15.00000	Averaged
	26 AR 1016-PEAK3	410045	401795	0.010	2.01192	15.00000	Averaged
	27 AR 1016-PEAK4	135382	130455	0.010	3.63928	15.00000	Averaged
M	28 AR 1260-AVG	1064701	1049646	0.010	1.41401	15.00000	Averaged
	29 AR 1260-PEAK1	137302	134126	0.010	2.31296	15.00000	Averaged
	30 AR 1260-PEAK2	213289	206033	0.010	3.40203	15.00000	Averaged
	31 AR 1260-PEAK3	254382	249278	0.010	2.00660	15.00000	Averaged
	32 AR 1260-PEAK4	459728	460209	0.010	-0.10471	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.32553
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15045.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15045.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 06:05
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M	23 AR 1016-AVG	838628	800916	0.010	4.49682	15.00000	Averaged	
	24 AR 1016-PEAK1	83609	97253	0.010	-16.31957	15.00000	Averaged	<-
	25 AR 1016-PEAK2	209592	198186	0.010	5.44205	15.00000	Averaged	
	26 AR 1016-PEAK3	410045	382205	0.010	6.78956	15.00000	Averaged	
	27 AR 1016-PEAK4	135382	123272	0.010	8.94489	15.00000	Averaged	
M	28 AR 1260-AVG	1064701	975330	0.010	8.39397	15.00000	Averaged	
	29 AR 1260-PEAK1	137302	123828	0.010	9.81323	15.00000	Averaged	
	30 AR 1260-PEAK2	213289	191143	0.010	10.38307	15.00000	Averaged	
	31 AR 1260-PEAK3	254382	231750	0.010	8.89708	15.00000	Averaged	
	32 AR 1260-PEAK4	459728	428609	0.010	6.76888	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 8.62491
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15056.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15056.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 09:29
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
M 23 AR 1016-AVG	838628	762095	0.010	9.12598	15.00000	Averaged	
24 AR 1016-PEAK1	83609	93263	0.010	-11.54783	15.00000	Averaged	
25 AR 1016-PEAK2	209592	185273	0.010	11.60284	15.00000	Averaged	
26 AR 1016-PEAK3	410045	356486	0.010	13.06171	15.00000	Averaged	
27 AR 1016-PEAK4	135382	127072	0.010	6.13853	15.00000	Averaged	
M 28 AR 1260-AVG	1064701	863196	0.010	18.92594	15.00000	Averaged	<-
29 AR 1260-PEAK1	137302	110841	0.010	19.27208	15.00000	Averaged	<-
30 AR 1260-PEAK2	213289	173846	0.010	18.49281	15.00000	Averaged	<-
31 AR 1260-PEAK3	254382	207247	0.010	18.52945	15.00000	Averaged	<-
32 AR 1260-PEAK4	459728	371263	0.010	19.24290	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 14.59401
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 07-Mar-2005 10:20

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15b.i/2050226.b/sv15b015.d
Level 2: /var/chem/gcsv15b.i/2050226.b/sv15b016.d
Level 3: /var/chem/gcsv15b.i/2050226.b/sv15b017.d
Level 4: /var/chem/gcsv15b.i/2050226.b/sv15b018.d
Level 5: /var/chem/gcsv15b.i/2050226.b/sv15b019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
	2 alpha-BHC	12144604	12710175	12680362	12533618	12386289	12491010	1.863
	3 gamma-BHC (Lindane)	11057675	11400469	11241527	11065569	10941651	11141378	1.617
	4 Heptachlor	7883439	8571668	8494849	8359996	8400248	8342040	3.228
	5 Aldrin	10045457	10160034	9734624	9559232	9369377	9773745	3.371
	6 beta-BHC	5372555	5195359	5186473	4962726	4904981	5124419	3.712
	7 delta-BHC	10763796	11187742	11126167	10979606	10839720	10979406	1.648
	8 Heptachlor epoxide	10460643	9089150	8555353	8345266	8202336	8930550	10.293
	9 Endosulfan I	10489870	8868454	8110673	7930935	7812554	8642497	12.861
	10 gamma-Chlordane	9313725	9311513	9023671	8857525	8770767	9055440	2.780
	11 alpha-Chlordane	9241864	9051515	8785471	8607979	8495467	8836459	3.496
	12 4,4'-DDE	9355584	9026156	8512565	8309587	8263272	8693433	5.499
	13 Dieldrin	9389390	9231903	8721419	8532012	8453158	8865576	4.755
	14 Endrin	7089224	6950149	6615502	6363260	6459144	6695456	4.679
	15 4,4'-DDD	6019792	7672318	7426177	7278403	7186459	7116630	8.994
	16 Endosulfan II	7696972	7493142	7109214	6923354	6922797	7229096	4.843
	17 4,4'-DDT	5396069	5943688	6032168	5828923	6075455	5855261	4.671
	18 Endrin aldehyde	6030436	5954979	5645092	5494688	5508176	5726674	4.388
	19 Methoxychlor	2800314	2896692	2865059	2739946	2898251	2840052	2.415
	20 Endosulfan sulfate	6628193	6604678	6357094	6182901	6214827	6397538	3.290
	21 Endrin ketone	7322552	7378886	7243522	7139042	7182989	7253398	1.355
M	23 AR 1016-AVG	1133234	1109112	1014342	906064	820442	996639	13.356
	24 AR 1016-PEAK1	205922	219801	198035	184091	161031	193776	11.565
	25 AR 1016-PEAK2	274177	255840	240636	202397	191798	232970	15.038
	26 AR 1016-PEAK3	391525	373862	333550	305047	263808	333558	15.478
	27 AR 1016-PEAK4	261610	259609	242121	214529	203805	236335	11.090
M	28 AR 1260-AVG	2487280	2413448	2284583	2089372	2111422	2277221	7.779

Report Date : 07-Mar-2005 10:20

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	480265	461384	426641	386211	380030	426906	10.403
	30 AR 1260-PEAK2	552355	536442	502033	456855	455500	500637	8.884
	31 AR 1260-PEAK3	600885	574998	542732	496292	499133	542808	8.483
	32 AR 1260-PEAK4	853775	840624	813177	750014	776759	806870	5.373
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	511429	+++++	+++++	511429	0.000
	38 AR 1221-PEAK1	+++++	+++++	78512	+++++	+++++	78512	0.000
	39 AR 1221-PEAK2	+++++	+++++	109288	+++++	+++++	109288	0.000
	40 AR 1221-PEAK3	+++++	+++++	71563	+++++	+++++	71563	0.000
	41 AR 1221-PEAK4	+++++	+++++	252066	+++++	+++++	252066	0.000
M	42 AR 1232-AVG	+++++	+++++	534969	+++++	+++++	534969	0.000
	43 AR 1232-PEAK1	+++++	+++++	227048	+++++	+++++	227048	0.000
	44 AR 1232-PEAK2	+++++	+++++	70641	+++++	+++++	70641	0.000
	45 AR 1232-PEAK3	+++++	+++++	146973	+++++	+++++	146973	0.000
	46 AR 1232-PEAK4	+++++	+++++	90308	+++++	+++++	90308	0.000
M	47 AR 1242-AVG	+++++	+++++	814185	+++++	+++++	814185	0.000
	48 AR 1242-PEAK1	+++++	+++++	146859	+++++	+++++	146859	0.000
	49 AR 1242-PEAK2	+++++	+++++	191545	+++++	+++++	191545	0.000
	50 AR 1242-PEAK3	+++++	+++++	269231	+++++	+++++	269231	0.000
	51 AR 1242-PEAK4	+++++	+++++	206550	+++++	+++++	206550	0.000
M	52 AR 1248-AVG	+++++	+++++	1169121	+++++	+++++	1169121	0.000
	53 AR 1248-PEAK1	+++++	+++++	210052	+++++	+++++	210052	0.000
	54 AR 1248-PEAK2	+++++	+++++	275405	+++++	+++++	275405	0.000
	55 AR 1248-PEAK3	+++++	+++++	298651	+++++	+++++	298651	0.000
	56 AR 1248-PEAK4	+++++	+++++	385014	+++++	+++++	385014	0.000
M	57 AR 1254-AVG	+++++	+++++	1463965	+++++	+++++	1463965	0.000
	58 AR 1254-PEAK1	+++++	+++++	178390	+++++	+++++	178390	0.000
	59 AR 1254-PEAK2	+++++	+++++	281362	+++++	+++++	281362	0.000
	60 AR 1254-PEAK3	+++++	+++++	526821	+++++	+++++	526821	0.000
	61 AR 1254-PEAK4	+++++	+++++	477393	+++++	+++++	477393	0.000

Report Date : 07-Mar-2005 10:20

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	845561	845561	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	172884	172884	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	186350	186350	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	255915	255915	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	230412	230412	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	2867373	2867373	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	401568	401568	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	421259	421259	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	1177484	1177484	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	867063	867063	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	11657127	11604669	11175543	11023841	10730723	11238381	3.495
$	22 Decachlorobiphenyl	6139163	5750432	5646283	5515756	5694429	5749213	4.081

Report Date : 07-Mar-2005 10:20

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:44
End Cal Date	: 26-FEB-2005 18:00
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date	: 07-Mar-2005 10:20 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.39947748                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15b.i/2050226.b/sv15b024.d
Report Date: 26-Feb-2005 20:20

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: pcbicv.spk
Sublist File: pcbicv.sub
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
M 23 AR 1016-AVG	400	360	91.20	85-115
M 28 AR 1260-AVG	400	370	92.25	85-115

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b003.d
Report Date: 01-Mar-2005 15:16

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 28-FEB-2005 15:09
Lab File ID: sv15b003.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	996639	963661	0.010	3.30889	15.00000	Averaged
24 AR 1016-PEAK1	193776	184088	0.010	4.99951	15.00000	Averaged
25 AR 1016-PEAK2	232970	230028	0.010	1.26259	15.00000	Averaged
26 AR 1016-PEAK3	333558	322853	0.010	3.20949	15.00000	Averaged
27 AR 1016-PEAK4	236335	226692	0.010	4.08015	15.00000	Averaged
M 28 AR 1260-AVG	2277221	2212811	0.010	2.82845	15.00000	Averaged
29 AR 1260-PEAK1	426906	405873	0.010	4.92684	15.00000	Averaged
30 AR 1260-PEAK2	500637	476060	0.010	4.90918	15.00000	Averaged
31 AR 1260-PEAK3	542808	518135	0.010	4.54548	15.00000	Averaged
32 AR 1260-PEAK4	806870	812743	0.010	-0.72791	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.47985
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b016.d
Report Date: 01-Mar-2005 15:18

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 28-FEB-2005 21:09
Lab File ID: sv15b016.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	996639	907098	0.010	8.98431	15.00000	Averaged
24 AR 1016-PEAK1	193776	168514	0.010	13.03648	15.00000	Averaged
25 AR 1016-PEAK2	232970	221887	0.010	4.75702	15.00000	Averaged
26 AR 1016-PEAK3	333558	303380	0.010	9.04742	15.00000	Averaged
27 AR 1016-PEAK4	236335	213316	0.010	9.73985	15.00000	Averaged
M 28 AR 1260-AVG	2277221	2117724	0.010	7.00404	15.00000	Averaged
29 AR 1260-PEAK1	426906	386342	0.010	9.50189	15.00000	Averaged
30 AR 1260-PEAK2	500637	456513	0.010	8.81366	15.00000	Averaged
31 AR 1260-PEAK3	542808	497333	0.010	8.37774	15.00000	Averaged
32 AR 1260-PEAK4	806870	777536	0.010	3.63552	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.28979
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b021.d
Report Date: 01-Mar-2005 15:18

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b021.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 28-FEB-2005 23:16
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 23 AR 1016-AVG	996639	962445	0.010	3.43095	15.00000	Averaged
24 AR 1016-PEAK1	193776	179229	0.010	7.50688	15.00000	Averaged
25 AR 1016-PEAK2	232970	231753	0.010	0.52228	15.00000	Averaged
26 AR 1016-PEAK3	333558	324262	0.010	2.78707	15.00000	Averaged
27 AR 1016-PEAK4	236335	227201	0.010	3.86501	15.00000	Averaged
M 28 AR 1260-AVG	2277221	2237594	0.010	1.74015	15.00000	Averaged
29 AR 1260-PEAK1	426906	413412	0.010	3.16085	15.00000	Averaged
30 AR 1260-PEAK2	500637	476812	0.010	4.75901	15.00000	Averaged
31 AR 1260-PEAK3	542808	526193	0.010	3.06082	15.00000	Averaged
32 AR 1260-PEAK4	806870	821177	0.010	-1.77309	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.26061
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b035.d
Report Date: 01-Mar-2005 15:18

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i
Lab File ID: sv15b035.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

Injection Date: 01-MAR-2005 03:36
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:44 18:00
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M	23 AR 1016-AVG	996639	930450	0.010	6.64117	15.00000	Averaged
	24 AR 1016-PEAK1	193776	172426	0.010	11.01790	15.00000	Averaged
	25 AR 1016-PEAK2	232970	226376	0.010	2.83039	15.00000	Averaged
	26 AR 1016-PEAK3	333558	312961	0.010	6.17510	15.00000	Averaged
	27 AR 1016-PEAK4	236335	218688	0.010	7.46692	15.00000	Averaged
M	28 AR 1260-AVG	2277221	2128918	0.010	6.51244	15.00000	Averaged
	29 AR 1260-PEAK1	426906	390889	0.010	8.43684	15.00000	Averaged
	30 AR 1260-PEAK2	500637	459400	0.010	8.23685	15.00000	Averaged
	31 AR 1260-PEAK3	542808	499696	0.010	7.94234	15.00000	Averaged
	32 AR 1260-PEAK4	806870	778933	0.010	3.46239	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 6.87223
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2/22/05 1100	BATCH NO:	287818
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 287818 [EXTO/7101]	224684	1000	10.0	7	PCB	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287818 [EXTO/7101]	224685	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287818 [EXTO/7101	224686	1000	10.0	7		SEPARATORY FUNNEL/3510
4	4380	05283WC2W050217	20502180605	1000	10.0	7		
5	4380	05283LOP050217	20502180505	1000	10.0	7		GPC CLEANUP/3640
6								
7								SONICATOR/3550
8								
9								FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No:
20								
21								ACETONE LOT NO:
22								
23								MECL2 Lot No:
24								045514
25								HEXANE Lot No:
26								
27								Sodium Sulfate Lot No:
28								044031

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

				PCB			
SURROGATE ID	9-9-9	8081 SPIKE ID		~~608~~ SPIKE ID	9-12-5	TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME		VOLUME	1.0mL	Denise Patte	2-22-05
CONCENTRATION	0.5ug/mL	CONCENTRATION		CONCENTRATION	4.0ug/mL		
ACID						SUPERVISOR	DATE
SPIKE WITNESS	KH					John Bailey	02/22/05

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-21-05 1230	BATCH NO:	287769
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 287769 [EXTO/7093]	224435	30.0	10.0		PCB	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287769 [EXTO/7093]	224436	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 287769 [EXTO/7093	224437	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	05283GCP050217	20502180504	1.0	10.0		Due to Matrix	
5	4380	05283WC1W050217	20502180601	30.0	10.0			GPC CLEANUP/3640
6	4380	05283WC4W050217	20502180603	30.0	10.0			
7	QC ACCOUNT	05283WC4W050217 (224287MS)	224438	30.0	10.0			SONICATOR/3550 ✓
8	QC ACCOUNT	05283WC4W050217 (224287MSD)	224439	30.0	10.0			
9	4484	TO1090101	20502182401	30.0	10.0			FLORISIL CLEANUP/3620
10								
11								PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No: 1-76-8
20								
21								ACETONE LOT NO: 046140
22								
23								MECL2 Lot No: 045514
24								
25								HEXANE Lot No: 044711
26								
27								Sodium Sulfate Lot No: 044031
28								

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

Due to Matrix of sample only one gram was used

ABP 2-21-05

SURROGATE ID	9-9-9	8081 SPIKE ID		~~608~~ PCB SPIKE ID	9-12-5	TECHNICIAN	DATE
VOLUME 1.0ml	~~0.5ml~~	VOLUME		VOLUME	1.0ml		
CONCENTRATION	0.5 ug/ml	CONCENTRATION		CONCENTRATION	4.0 ug/ml	Alex Polyzopoulos	2-21-05
ACID						SUPERVISOR	DATE
SPIKE WITNESS	KH					John Bailey	02/22/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/04/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050226.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15001.d	26-FEB-2005 11:59	1.000	tls	
1201		sv15002.d	26-FEB-2005 12:26	1.000	tls	
1202		sv15003.d	26-FEB-2005 12:44	1.000	tls	
1203		sv15004.d	26-FEB-2005 13:03	1.000	tls	
1204		sv15005.d	26-FEB-2005 13:21	1.000	tls	
1205		sv15006.d	26-FEB-2005 13:40	1.000	tls	
1600		sv15007.d	26-FEB-2005 13:59	1.000	tls	
1205		sv15008.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15009.d	26-FEB-2005 14:36	1.000	tls	
1203		sv15010.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15011.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15012.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15013.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15014.d	26-FEB-2005 16:09	1.000	tls	
1201		sv15015.d	26-FEB-2005 16:27	1.000	tls	
1202		sv15016.d	26-FEB-2005 16:46	1.000	tls	
1203		sv15017.d	26-FEB-2005 17:05	1.000	tls	
1204		sv15018.d	26-FEB-2005 17:23	1.000	tls	
1205		sv15019.d	26-FEB-2005 17:42	1.000	tls	
1600		sv15020.d	26-FEB-2005 18:00	1.000	tls	
DEG		sv15021.d	26-FEB-2005 18:19	1.000	tls	
1600		sv15022.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15001.d	28-FEB-2005 14:13	1.000	tls	
1400		sv15002.d	28-FEB-2005 14:32	1.000	tls	
1400		sv15003.d	28-FEB-2005 14:50	1.000	tls	
224679/84		sv15004.d	28-FEB-2005 16:28	1.000	sjt	
224680		sv15005.d	28-FEB-2005 16:47	1.000	sjt	
224681		sv15006.d	28-FEB-2005 17:05	1.000	sjt	
224685		sv15007.d	28-FEB-2005 17:24	1.000	sjt	
224686		sv15008.d	28-FEB-2005 17:53	1.000	sjt	
224430		sv15009.d	28-FEB-2005 18:21	1.000	sjt	
224431		sv15010.d	28-FEB-2005 18:40	1.000	sjt	
224432		sv15011.d	28-FEB-2005 18:59	1.000	sjt	
224435		sv15012.d	28-FEB-2005 19:17	1.000	sjt	
224436		sv15013.d	28-FEB-2005 19:36	1.000	sjt	
1400		sv15015.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15016.d	28-FEB-2005 20:31	1.000	sjt	
224437		sv15017.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15019.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15020.d	28-FEB-2005 21:46	1.000	sjt	
1400		sv15021.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15022.d	28-FEB-2005 22:57	1.000	sjt	
20502180505		sv15023.d	28-FEB-2005 23:16	1.000	sjt	
20502180602		sv15024.d	28-FEB-2005 23:34	1.000	sjt	
224682		sv15025.d	28-FEB-2005 23:53	1.000	sjt	
224683		sv15026.d	01-MAR-2005 00:12	1.000	sjt	
20502180604		sv15027.d	01-MAR-2005 00:30	1.000	sjt	
0221tblk		sv15028.d	01-MAR-2005 00:49	1.000	sjt	
20502172209		sv15029.d	01-MAR-2005 01:08	1.000	sjt	
20502182401		sv15030.d	01-MAR-2005 01:26	1.000	sjt	
deg		sv15032.d	01-MAR-2005 02:03	1.000	sjt	
1400		sv15033.d	01-MAR-2005 02:22	1.000	sjt	
1400		sv15034.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15035.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15036.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15043.d	01-MAR-2005 05:27	1.000	sjt	
1400		sv15044.d	01-MAR-2005 05:46	1.000	sjt	
1400		sv15045.d	01-MAR-2005 06:05	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		sv15046.d	01-MAR-2005 06:23	1.000	sjt	
20502180504		sv15047.d	01-MAR-2005 06:41	10.000	sjt	
20502180504		sv15048.d	01-MAR-2005 07:00	1.000	sjt	
224433		sv15049.d	01-MAR-2005 07:19	1.000	sjt	
224434		sv15050.d	01-MAR-2005 07:37	1.000	sjt	
20502180504		sv15051.d	01-MAR-2005 07:56	1.000	sjt	
1400		sv15053.d	01-MAR-2005 08:33	1.000	sjt	
1400		sv15054.d	01-MAR-2005 08:51	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/28/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050226.b
Column-Detector: RTX-XLB

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15b001.d	26-FEB-2005 12:26	1.000	tls	
1201		sv15b002.d	26-FEB-2005 12:44	1.000	tls	
1202		sv15b003.d	26-FEB-2005 13:03	1.000	tls	
1203		sv15b004.d	26-FEB-2005 13:21	1.000	tls	
1204		sv15b005.d	26-FEB-2005 13:40	1.000	tls	
1205		sv15b006.d	26-FEB-2005 13:59	1.000	tls	
1600		sv15b007.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15b008.d	26-FEB-2005 14:36	1.000	tls	
1205		sv15b009.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15b010.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15b011.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15b012.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15b013.d	26-FEB-2005 16:09	1.000	tls	
1203		sv15b014.d	26-FEB-2005 16:27	1.000	tls	
1201		sv15b015.d	26-FEB-2005 16:46	1.000	tls	
1202		sv15b016.d	26-FEB-2005 17:05	1.000	tls	
1203		sv15b017.d	26-FEB-2005 17:23	1.000	tls	
1204		sv15b018.d	26-FEB-2005 17:42	1.000	tls	
1205		sv15b019.d	26-FEB-2005 18:00	1.000	tls	
1600		sv15b020.d	26-FEB-2005 18:19	1.000	tls	
DEG		sv15b021.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15b022.d	26-FEB-2005 18:56	1.000	tls	
1600		sv15b024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15b001.d	28-FEB-2005 14:32	1.000	sjt	
1400		sv15b002.d	28-FEB-2005 14:50	1.000	sjt	
1400		sv15b003.d	28-FEB-2005 15:09	1.000	sjt	
224684		sv15b004.d	28-FEB-2005 17:05	1.000	sjt	
224680		sv15b005.d	28-FEB-2005 17:24	1.000	sjt	
224681		sv15b006.d	28-FEB-2005 17:53	1.000	sjt	
224685		sv15b007.d	28-FEB-2005 18:21	1.000	sjt	
224686		sv15b008.d	28-FEB-2005 18:40	1.000	sjt	
224430		sv15b009.d	28-FEB-2005 18:59	1.000	sjt	
224431		sv15b010.d	28-FEB-2005 19:17	1.000	sjt	
224432		sv15b011.d	28-FEB-2005 19:36	1.000	sjt	
224435		sv15b012.d	28-FEB-2005 19:54	1.000	sjt	
224436		sv15b013.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15b015.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15b016.d	28-FEB-2005 21:09	1.000	sjt	
224437		sv15b017.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15b019.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15b020.d	28-FEB-2005 22:57	1.000	sjt	
1400		sv15b021.d	28-FEB-2005 23:16	1.000	sjt	
1400		sv15b022.d	28-FEB-2005 23:34	1.000	sjt	
20502180505		sv15b023.d	28-FEB-2005 23:53	1.000	sjt	
20502180602		sv15b024.d	01-MAR-2005 00:12	1.000	sjt	
224682		sv15b025.d	01-MAR-2005 00:30	1.000	sjt	
224683		sv15b026.d	01-MAR-2005 00:49	1.000	sjt	
20502180604		sv15b027.d	01-MAR-2005 01:08	1.000	sjt	
0221tblk		sv15b028.d	01-MAR-2005 01:26	1.000	sjt	
20502172209		sv15b029.d	01-MAR-2005 01:45	1.000	sjt	
20502182401		sv15b030.d	01-MAR-2005 02:03	1.000	sjt	
deg		sv15b032.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15b033.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15b034.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15b035.d	01-MAR-2005 03:36	1.000	sjt	
1400		sv15b036.d	01-MAR-2005 03:55	1.000	sjt	
20502180601		sv15b037.d	01-MAR-2005 04:13	1.000	sjt	
20502180603		sv15b038.d	01-MAR-2005 04:32	1.000	sjt	
224438		sv15b039.d	01-MAR-2005 04:50	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
224439		sv15b040.d	01-MAR-2005 05:09	1.000	sjt	
1400		sv15b043.d	01-MAR-2005 06:05	1.000	sjt	
1400		sv15b044.d	01-MAR-2005 06:23	1.000	sjt	
1400		sv15b045.d	01-MAR-2005 06:41	1.000	sjt	
1400		sv15b046.d	01-MAR-2005 07:00	1.000	sjt	
20502180504		sv15b047.d	01-MAR-2005 07:19	10.000	sjt	
20502180504		sv15b048.d	01-MAR-2005 07:37	1.000	sjt	
224433		sv15b049.d	01-MAR-2005 07:56	1.000	sjt	
224434		sv15b050.d	01-MAR-2005 08:14	1.000	sjt	
1400		sv15b053.d	01-MAR-2005 09:10	1.000	sjt	
1400		sv15b054.d	01-MAR-2005 09:29	1.000	sjt	
1400		sv15b055.d	01-MAR-2005 09:47	1.000	sjt	
1400		sv15b056.d	01-MAR-2005 10:06	1.000	sjt	
20502180605		sv15b057.d	01-MAR-2005 11:23	10.000	sjt	
hexane		sv15b058.d	01-MAR-2005 11:42	1.000	sjt	
1400		sv15b059.d	01-MAR-2005 12:01	1.000	sjt	
1400		sv15b060.d	01-MAR-2005 12:19	1.000	sjt	
1400		sv15b061.d	01-MAR-2005 12:38	1.000	sjt	
1400		sv15b062.d	01-MAR-2005 12:56	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 1 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288152

Sample ID: 05283GCP050217
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 20502180504
Date Collected: 02/17/05 Time: 1000
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0700
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15048

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	120	U	14.1	120
72-55-9	4,4'-DDE	120	U	19.5	120
50-29-3	4,4'-DDT	18.1	J	7.50	120
309-00-2	Aldrin	73.6		9.60	60.0
60-57-1	Dieldrin	120	U	8.40	120
959-98-8	Endosulfan I	60.0	U	10.2	60.0
33213-65-9	Endosulfan II	192		16.8	120
1031-07-8	Endosulfan sulfate	120	U	15.9	120
72-20-8	Endrin	120	U	10.2	120
7421-93-4	Endrin aldehyde	223		20.1	120
53494-70-5	Endrin ketone	168		25.2	120
76-44-8	Heptachlor	60.0	U	6.30	60.0
1024-57-3	Heptachlor epoxide	438		21.3	60.0
72-43-5	Methoxychlor	260	J	37.5	600
8001-35-2	Toxaphene	6000	U	281	6000
319-84-6	alpha-BHC	60.0	U	9.60	60.0
5103-71-9	alpha-Chlordane	60.0	U	10.8	60.0
319-85-7	beta-BHC	120	U	16.2	120
319-86-8	delta-BHC	60.0	U	9.60	60.0
58-89-9	gamma-BHC (Lindane)	38.0	J	18.9	60.0
5103-74-2	gamma-Chlordane	60.0	U	13.2	60.0

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: 05283LOP050217
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 20502180505
Date Collected: 02/17/05 Time: 1015
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 2353
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050228P/SV15B023

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.054	J	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00422	0.050
5103-71-9	alpha-Chlordane	0.088		0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: MB224679
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224679
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1705
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B004

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.100	U	0.00392	0.100
72-55-9	4,4'-DDE	0.100	U	0.011	0.100
50-29-3	4,4'-DDT	0.100	U	0.012	0.100
309-00-2	Aldrin	0.050	U	0.00522	0.050
60-57-1	Dieldrin	0.100	U	0.00942	0.100
959-98-8	Endosulfan I	0.050	U	0.00553	0.050
33213-65-9	Endosulfan II	0.100	U	0.016	0.100
1031-07-8	Endosulfan sulfate	0.100	U	0.00507	0.100
72-20-8	Endrin	0.100	U	0.017	0.100
7421-93-4	Endrin aldehyde	0.100	U	0.00967	0.100
53494-70-5	Endrin ketone	0.100	U	0.00852	0.100
76-44-8	Heptachlor	0.050	U	0.00877	0.050
1024-57-3	Heptachlor epoxide	0.050	U	0.015	0.050
72-43-5	Methoxychlor	0.500	U	0.00427	0.500
8001-35-2	Toxaphene	5.00	U	0.550	5.00
319-84-6	alpha-BHC	0.050	U	0.00422	0.050
5103-71-9	alpha-Chlordane	0.050	U	0.00547	0.050
319-85-7	beta-BHC	0.050	U	0.00847	0.050
319-86-8	delta-BHC	0.050	U	0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.050	U	0.00510	0.050
5103-74-2	gamma-Chlordane	0.050	U	0.011	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288158

Sample ID: MB224430
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224430
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 1859
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B009

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.00	U	0.470	4.00
72-55-9	4,4'-DDE	4.00	U	0.650	4.00
50-29-3	4,4'-DDT	4.00	U	0.250	4.00
309-00-2	Aldrin	2.00	U	0.320	2.00
60-57-1	Dieldrin	4.00	U	0.280	4.00
959-98-8	Endosulfan I	2.00	U	0.340	2.00
33213-65-9	Endosulfan II	4.00	U	0.560	4.00
1031-07-8	Endosulfan sulfate	4.00	U	0.530	4.00
72-20-8	Endrin	4.00	U	0.340	4.00
7421-93-4	Endrin aldehyde	4.00	U	0.670	4.00
53494-70-5	Endrin ketone	4.00	U	0.840	4.00
76-44-8	Heptachlor	2.00	U	0.210	2.00
1024-57-3	Heptachlor epoxide	2.00	U	0.710	2.00
72-43-5	Methoxychlor	20.0	U	1.25	20.0
8001-35-2	Toxaphene	200	U	9.37	200
319-84-6	alpha-BHC	2.00	U	0.320	2.00
5103-71-9	alpha-Chlordane	2.00	U	0.360	2.00
319-85-7	beta-BHC	4.00	U	0.540	4.00
319-86-8	delta-BHC	2.00	U	0.320	2.00
58-89-9	gamma-BHC (Lindane)	2.00	U	0.630	2.00
5103-74-2	gamma-Chlordane	2.00	U	0.440	2.00

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: LCS224680
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224680
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1724
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B005

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.463		0.00392	0.100
72-55-9	4,4'-DDE	0.596		0.011	0.100
50-29-3	4,4'-DDT	0.606		0.012	0.100
309-00-2	Aldrin	0.494		0.00522	0.050
60-57-1	Dieldrin	0.596		0.00942	0.100
959-98-8	Endosulfan I	0.472		0.00553	0.050
33213-65-9	Endosulfan II	0.599		0.016	0.100
1031-07-8	Endosulfan sulfate	0.665		0.00507	0.100
72-20-8	Endrin	0.630		0.017	0.100
7421-93-4	Endrin aldehyde	0.581		0.00967	0.100
53494-70-5	Endrin ketone	0.658		0.00852	0.100
76-44-8	Heptachlor	0.548		0.00877	0.050
1024-57-3	Heptachlor epoxide	0.661		0.015	0.050
72-43-5	Methoxychlor	0.795		0.00427	0.500
319-84-6	alpha-BHC	0.581		0.00422	0.050
5103-71-9	alpha-Chlordane	0.563		0.00547	0.050
319-85-7	beta-BHC	0.542		0.00847	0.050
319-86-8	delta-BHC	0.552		0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.571		0.00510	0.050
5103-74-2	gamma-Chlordane	0.562		0.011	0.050

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: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: LCSD224681
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224681
Date Collected: Time:
Date Received:
Date Extracted: 02/22/05
Date Analyzed: 02/28/05 Time: 1753
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B006

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	0.507		0.00392	0.100
72-55-9	4,4'-DDE	0.620		0.011	0.100
50-29-3	4,4'-DDT	0.653		0.012	0.100
309-00-2	Aldrin	0.518		0.00522	0.050
60-57-1	Dieldrin	0.610		0.00942	0.100
959-98-8	Endosulfan I	0.486		0.00553	0.050
33213-65-9	Endosulfan II	0.603		0.016	0.100
1031-07-8	Endosulfan sulfate	0.685		0.00507	0.100
72-20-8	Endrin	0.661		0.017	0.100
7421-93-4	Endrin aldehyde	0.661		0.00967	0.100
53494-70-5	Endrin ketone	0.683		0.00852	0.100
76-44-8	Heptachlor	0.602		0.00877	0.050
1024-57-3	Heptachlor epoxide	0.614		0.015	0.050
72-43-5	Methoxychlor	0.842		0.00427	0.500
319-84-6	alpha-BHC	0.604		0.00422	0.050
5103-71-9	alpha-Chlordane	0.576		0.00547	0.050
319-85-7	beta-BHC	0.573		0.00847	0.050
319-86-8	delta-BHC	0.575		0.00464	0.050
58-89-9	gamma-BHC (Lindane)	0.602		0.00510	0.050
5103-74-2	gamma-Chlordane	0.575		0.011	0.050

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288158

Sample ID: LCS224431
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224431
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 1917
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B010

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	16.2		0.470	4.00
72-55-9	4,4'-DDE	20.3		0.650	4.00
50-29-3	4,4'-DDT	21.6		0.250	4.00
309-00-2	Aldrin	18.4		0.320	2.00
60-57-1	Dieldrin	19.4		0.280	4.00
959-98-8	Endosulfan I	15.5		0.340	2.00
33213-65-9	Endosulfan II	19.4		0.560	4.00
1031-07-8	Endosulfan sulfate	22.2		0.530	4.00
72-20-8	Endrin	21.1		0.340	4.00
7421-93-4	Endrin aldehyde	19.5		0.670	4.00
53494-70-5	Endrin ketone	21.9		0.840	4.00
76-44-8	Heptachlor	20.4		0.210	2.00
1024-57-3	Heptachlor epoxide	18.9		0.710	2.00
72-43-5	Methoxychlor	22.0		1.25	20.0
319-84-6	alpha-BHC	18.8		0.320	2.00
5103-71-9	alpha-Chlordane	18.6		0.360	2.00
319-85-7	beta-BHC	17.9		0.540	4.00
319-86-8	delta-BHC	17.3		0.320	2.00
58-89-9	gamma-BHC (Lindane)	18.2		0.630	2.00
5103-74-2	gamma-Chlordane	18.4		0.440	2.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 30 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288158

Sample ID: LCSD224432
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224432
Date Collected: Time:
Date Received:
Date Extracted: 02/21/05
Date Analyzed: 02/28/05 Time: 1936
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B011

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	14.0		0.470	4.00
72-55-9	4,4'-DDE	19.3		0.650	4.00
50-29-3	4,4'-DDT	18.8		0.250	4.00
309-00-2	Aldrin	17.4		0.320	2.00
60-57-1	Dieldrin	18.2		0.280	4.00
959-98-8	Endosulfan I	14.6		0.340	2.00
33213-65-9	Endosulfan II	18.1		0.560	4.00
1031-07-8	Endosulfan sulfate	20.1		0.530	4.00
72-20-8	Endrin	20.0		0.340	4.00
7421-93-4	Endrin aldehyde	17.0		0.670	4.00
53494-70-5	Endrin ketone	19.9		0.840	4.00
76-44-8	Heptachlor	19.0		0.210	2.00
1024-57-3	Heptachlor epoxide	19.8		0.710	2.00
72-43-5	Methoxychlor	20.2		1.25	20.0
319-84-6	alpha-BHC	17.1		0.320	2.00
5103-71-9	alpha-Chlordane	17.4		0.360	2.00
319-85-7	beta-BHC	16.5		0.540	4.00
319-86-8	delta-BHC	16.2		0.320	2.00
58-89-9	gamma-BHC (Lindane)	17.1		0.630	2.00
5103-74-2	gamma-Chlordane	17.0		0.440	2.00

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 1 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288152

Sample ID: 05283GCP050217MS
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224433
Date Collected: 02/17/05 Time: 1000
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0719
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2050228P/SV15049

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1710		14.1	120
72-55-9	4,4'-DDE	371		19.5	120
50-29-3	4,4'-DDT	501		7.50	120
309-00-2	Aldrin	395		9.60	60.0
60-57-1	Dieldrin	379		8.40	120
959-98-8	Endosulfan I	441		10.2	60.0
33213-65-9	Endosulfan II	392		16.8	120
1031-07-8	Endosulfan sulfate	422		15.9	120
72-20-8	Endrin	432		10.2	120
7421-93-4	Endrin aldehyde	491		20.1	120
53494-70-5	Endrin ketone	631		25.2	120
76-44-8	Heptachlor	435		6.30	60.0
1024-57-3	Heptachlor epoxide	787		21.3	60.0
72-43-5	Methoxychlor	580	J	37.5	600
8001-35-2	Toxaphene	6000	U	281	6000
319-84-6	alpha-BHC	399		9.60	60.0
5103-71-9	alpha-Chlordane	387		10.8	60.0
319-85-7	beta-BHC	507		16.2	120
319-86-8	delta-BHC	182		9.60	60.0
58-89-9	gamma-BHC (Lindane)	415		18.9	60.0
5103-74-2	gamma-Chlordane	466		13.2	60.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 1 Units: g
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287768 Analytical Batch: 288152

Sample ID: 05283GCP050217MSD
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224434
Date Collected: 02/17/05 Time: 1000
Date Received: 02/18/05
Date Extracted: 02/21/05
Date Analyzed: 03/01/05 Time: 0737
Dilution Factor: 1 Analyst: SJT
Prep Method: 3550B
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15A
Lab File ID: 2050228P/SV15050

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	1370		14.1	120
72-55-9	4,4'-DDE	296		19.5	120
50-29-3	4,4'-DDT	396		7.50	120
309-00-2	Aldrin	302		9.60	60.0
60-57-1	Dieldrin	298		8.40	120
959-98-8	Endosulfan I	342		10.2	60.0
33213-65-9	Endosulfan II	297		16.8	120
1031-07-8	Endosulfan sulfate	323		15.9	120
72-20-8	Endrin	344		10.2	120
7421-93-4	Endrin aldehyde	381		20.1	120
53494-70-5	Endrin ketone	464		25.2	120
76-44-8	Heptachlor	328		6.30	60.0
1024-57-3	Heptachlor epoxide	652		21.3	60.0
72-43-5	Methoxychlor	578	J	37.5	600
8001-35-2	Toxaphene	6000	U	281	6000
319-84-6	alpha-BHC	299		9.60	60.0
5103-71-9	alpha-Chlordane	310		10.8	60.0
319-85-7	beta-BHC	389		16.2	120
319-86-8	delta-BHC	133		9.60	60.0
58-89-9	gamma-BHC (Lindane)	317		18.9	60.0
5103-74-2	gamma-Chlordane	385		13.2	60.0

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: 05283WC1W050217 (...MS
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224682
Date Collected: 02/17/05 Time: 1150
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 03/01/05 Time: 0030
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B
Lab File ID: 2050228P/SV15B025

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.59		0.039	1.00
72-55-9	4,4'-DDE	4.97		0.111	1.00
50-29-3	4,4'-DDT	5.18		0.117	1.00
309-00-2	Aldrin	4.17		0.052	0.500
60-57-1	Dieldrin	4.96		0.094	1.00
959-98-8	Endosulfan I	3.91		0.055	0.500
33213-65-9	Endosulfan II	5.00		0.156	1.00
1031-07-8	Endosulfan sulfate	5.44		0.051	1.00
72-20-8	Endrin	5.53		0.166	1.00
7421-93-4	Endrin aldehyde	4.80		0.097	1.00
53494-70-5	Endrin ketone	5.39		0.085	1.00
76-44-8	Heptachlor	5.05		0.088	0.500
1024-57-3	Heptachlor epoxide	5.07		0.146	0.500
72-43-5	Methoxychlor	6.59		0.043	5.00
8001-35-2	Toxaphene	50.0	U	5.50	50.0
319-84-6	alpha-BHC	5.41		0.042	0.500
5103-71-9	alpha-Chlordane	4.63		0.055	0.500
319-85-7	beta-BHC	4.80		0.085	0.500
319-86-8	delta-BHC	4.87		0.046	0.500
58-89-9	gamma-BHC (Lindane)	5.30		0.051	0.500
5103-74-2	gamma-Chlordane	4.73		0.108	0.500

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Soil
Sample wt/vol: 100 Units: mL
Level: (low/med) LOW
% Moisture: decanted: (Y/N)
GC Column: ID: (mm)
Concentrated Extract Volume: 10000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:
Prep Batch: 287817 Analytical Batch: 288158

Sample ID: 05283WC1W050217 ...MSD
Contract:
SAS No.: SDG No.: 205022104
Lab Sample ID: 224683
Date Collected: 02/17/05 Time: 1150
Date Received: 02/18/05
Date Extracted: 02/22/05
Date Analyzed: 03/01/05 Time: 0049
Dilution Factor: 1 Analyst: SJT
Prep Method: 3510C
Analytical Method: SW-846 8081
Sulfur Cleanup: (Y/N) N Instrument ID: GCS15B

CONCENTRATION UNITS: ug/L

Lab File ID: 2050228P/SV15B026

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
72-54-8	4,4'-DDD	4.83		0.039	1.00
72-55-9	4,4'-DDE	5.29		0.111	1.00
50-29-3	4,4'-DDT	5.64		0.117	1.00
309-00-2	Aldrin	5.20		0.052	0.500
60-57-1	Dieldrin	5.31		0.094	1.00
959-98-8	Endosulfan I	4.31		0.055	0.500
33213-65-9	Endosulfan II	5.14		0.156	1.00
1031-07-8	Endosulfan sulfate	5.91		0.051	1.00
72-20-8	Endrin	5.88		0.166	1.00
7421-93-4	Endrin aldehyde	5.21		0.097	1.00
53494-70-5	Endrin ketone	5.76		0.085	1.00
76-44-8	Heptachlor	5.95		0.088	0.500
1024-57-3	Heptachlor epoxide	5.33		0.146	0.500
72-43-5	Methoxychlor	6.69		0.043	5.00
8001-35-2	Toxaphene	50.0	U	5.50	50.0
319-84-6	alpha-BHC	5.58		0.042	0.500
5103-71-9	alpha-Chlordane	5.16		0.055	0.500
319-85-7	beta-BHC	5.17		0.085	0.500
319-86-8	delta-BHC	5.27		0.046	0.500
58-89-9	gamma-BHC (Lindane)	5.48		0.051	0.500
5103-74-2	gamma-Chlordane	5.20		0.108	0.500

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8081

	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.	05283LOP050217	106	45	148						43	34	135						0
2.	MB224679	94	45	148						85	34	135						0
3.	LCS224680	88	45	148						93	34	135						0
4.	LCSD224681	88	45	148						88	34	135						0

SMC 1 : Tetrachloro-m-xylene SMC 2 : Decachlorobiphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II ORG-II

2F

ORGANICS SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

GC Column (1) : ID: (mm) GC Cloumn (2) : ID: (mm)

Method: SW-846 8081

EPA SAMPLE NO.	SMC1 1-(1)	#	1-(2)	#	SMC2 2-(1)	#	2-(2)	#	TOT OUT
1. 05283GCP050217	101				72				0
2. MB224430	76				104				0
3. LCS224431	86				103				0
4. LCSD224432	80				94				0
5. 05283GCP050217MS	68				50	*			1
6. 05283GCP050217MSD	53				43	*			1

	CONTROL LIMITS	
SMC 1 : Tetrachloro-m-xylene	52	151
SMC 2 : Decachlorobiphenyl	56	159

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

SAMPLE NO : 224680

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/L	.5	0	.463	93		35 - 165
4,4'-DDE	ug/L	.5	0	.596	119		57 - 139
4,4'-DDT	ug/L	.5	0	.606	121		32 - 148
Aldrin	ug/L	.5	0	.494	99		51 - 144
Dieldrin	ug/L	.5	0	.596	119		59 - 169
Endosulfan I	ug/L	.5	0	.472	94		45 - 159
Endosulfan II	ug/L	.5	0	.599	120		49 - 165
Endosulfan sulfate	ug/L	.5	0	.665	133		26 - 164
Endrin	ug/L	.5	0	.63	126		53 - 168
Endrin aldehyde	ug/L	.5	0	.581	116		53 - 186
Endrin ketone	ug/L	.5	0	.658	132		31 - 169
Heptachlor	ug/L	.5	0	.548	110		51 - 152
Heptachlor epoxide	ug/L	.5	0	.661	132		56 - 147
Methoxychlor	ug/L	.5	0	.795	159		29 - 179
alpha-BHC	ug/L	.5	0	.581	116		45 - 162
alpha-Chlordane	ug/L	.5	0	.563	113		55 - 143
beta-BHC	ug/L	.5	0	.542	108		53 - 153
delta-BHC	ug/L	.5	0	.552	110		61 - 141
gamma-BHC (Lindane)	ug/L	.5	0	.571	114		37 - 143
gamma-Chlordane	ug/L	.5	0	.562	112		63 - 140

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

SAMPLE NO : 224681

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/L	.5	.507	101		9		35 - 165	0 - 40
4,4'-DDE	ug/L	.5	.62	124		4		57 - 139	0 - 40
4,4'-DDT	ug/L	.5	.653	131		7		32 - 148	0 - 40
Aldrin	ug/L	.5	.518	104		5		51 - 144	0 - 40
Dieldrin	ug/L	.5	.61	122		2		59 - 169	0 - 40
Endosulfan I	ug/L	.5	.486	97		3		45 - 159	0 - 40
Endosulfan II	ug/L	.5	.603	121		.7		49 - 165	0 - 40
Endosulfan sulfate	ug/L	.5	.685	137		3		26 - 164	0 - 40
Endrin	ug/L	.5	.661	132		5		53 - 168	0 - 40
Endrin aldehyde	ug/L	.5	.661	132		13		53 - 186	0 - 40
Endrin ketone	ug/L	.5	.683	137		4		31 - 169	0 - 40
Heptachlor	ug/L	.5	.602	120		9		51 - 152	0 - 40
Heptachlor epoxide	ug/L	.5	.614	123		7		56 - 147	0 - 40
Methoxychlor	ug/L	.5	.842	168		6		29 - 179	0 - 40
alpha-BHC	ug/L	.5	.604	121		4		45 - 162	0 - 40
alpha-Chlordane	ug/L	.5	.576	115		2		55 - 143	0 - 40
beta-BHC	ug/L	.5	.573	115		6		53 - 153	0 - 40
delta-BHC	ug/L	.5	.575	115		4		61 - 141	0 - 40
gamma-BHC (Lindane)	ug/L	.5	.602	120		5		37 - 143	0 - 40
gamma-Chlordane	ug/L	.5	.575	115		2		63 - 140	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283WC1W050217 (TCLP)

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

Spike HSN : 224682

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Endrin	ug/L	5	0	5.53	111		42 - 139
Heptachlor	ug/L	5	0	5.05	101		35 - 130
Heptachlor epoxide	ug/L	5	0	5.07	101		37 - 142
Methoxychlor	ug/L	5	0	6.59	132		26 - 144
gamma-BHC (Lindane)	ug/L	5	0	5.3	106		46 - 127

Spike Dupe HSN : 224683

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Endrin	ug/L	5	5.88	118		6		42 - 139	0 - 40
Heptachlor	ug/L	5	5.95	119		16		35 - 130	0 - 40
Heptachlor epoxide	ug/L	5	5.33	107		5		37 - 142	0 - 40
Methoxychlor	ug/L	5	6.69	134		2		26 - 144	0 - 40
gamma-BHC (Lindane)	ug/L	5	5.48	110		3		46 - 127	0 - 40

RPD : 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287768 Analytical Batch: 288158

Spike HSN : 224431

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/kg	16.7	0	16.2	97		31 - 141
4,4'-DDE	ug/kg	16.7	0	20.3	122		30 - 145
4,4'-DDT	ug/kg	16.7	0	21.6	130		23 - 134
Aldrin	ug/kg	16.7	0	18.4	110		35 - 132
Dieldrin	ug/kg	16.7	0	19.4	116		31 - 134
Endosulfan I	ug/kg	16.7	0	15.5	93		45 - 153
Endosulfan II	ug/kg	16.7	0	19.4	116		0 - 202
Endosulfan sulfate	ug/kg	16.7	0	22.2	133		26 - 144
Endrin	ug/kg	16.7	0	21.1	127		42 - 139
Endrin aldehyde	ug/kg	16.7	0	19.5	117		0 - 202
Endrin ketone	ug/kg	16.7	0	21.9	131		26 - 144
Heptachlor	ug/kg	16.7	0	20.4	122		35 - 130
Heptachlor epoxide	ug/kg	16.7	0	18.9	113		37 - 142
Methoxychlor	ug/kg	16.7	0	22	132		26 - 144
alpha-BHC	ug/kg	16.7	0	18.8	113		37 - 134
alpha-Chlordane	ug/kg	16.7	0	18.6	112		45 - 119
beta-BHC	ug/kg	16.7	0	17.9	107		17 - 147
delta-BHC	ug/kg	16.7	0	17.3	104		19 - 140
gamma-BHC (Lindane)	ug/kg	16.7	0	18.2	109		46 - 127
gamma-Chlordane	ug/kg	16.7	0	18.4	110		45 - 119

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287768 Analytical Batch: 288158

Spike Dupe HSN : 224432

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/kg	16.7	14	84		15		31 - 141	0 - 40
4,4'-DDE	ug/kg	16.7	19.3	116		5		30 - 145	0 - 40
4,4'-DDT	ug/kg	16.7	18.8	113		14		23 - 134	0 - 40
Aldrin	ug/kg	16.7	17.4	104		6		35 - 132	0 - 40
Dieldrin	ug/kg	16.7	18.2	109		6		31 - 134	0 - 40
Endosulfan I	ug/kg	16.7	14.6	88		6		45 - 153	0 - 40
Endosulfan II	ug/kg	16.7	18.1	109		7		0 - 202	0 - 40
Endosulfan sulfate	ug/kg	16.7	20.1	121		10		26 - 144	0 - 40
Endrin	ug/kg	16.7	20	120		5		42 - 139	0 - 40
Endrin aldehyde	ug/kg	16.7	17	102		14		0 - 202	0 - 40
Endrin ketone	ug/kg	16.7	19.9	119		10		26 - 144	0 - 40
Heptachlor	ug/kg	16.7	19	114		7		35 - 130	0 - 40
Heptachlor epoxide	ug/kg	16.7	19.8	119		5		37 - 142	0 - 40
Methoxychlor	ug/kg	16.7	20.2	121		9		26 - 144	0 - 40
alpha-BHC	ug/kg	16.7	17.1	103		9		37 - 134	0 - 40
alpha-Chlordane	ug/kg	16.7	17.4	104		7		45 - 119	0 - 40
beta-BHC	ug/kg	16.7	16.5	99		8		17 - 147	0 - 40
delta-BHC	ug/kg	16.7	16.2	97		7		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/kg	16.7	17.1	103		6		46 - 127	0 - 40
gamma-Chlordane	ug/kg	16.7	17	102		8		45 - 119	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 0 out of 40 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283GCP050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287768 Analytical Batch: 288152

Spike HSN : 224433

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
4,4'-DDD	ug/kg	500	0	1710	342	*	31 - 141
4,4'-DDE	ug/kg	500	0	371	74		30 - 145
4,4'-DDT	ug/kg	500	18.1	501	97		23 - 134
Aldrin	ug/kg	500	73.6	395	64		35 - 132
Dieldrin	ug/kg	500	0	379	76		31 - 134
Endosulfan I	ug/kg	500	0	441	88		45 - 153
Endosulfan II	ug/kg	500	192	392	40		0 - 202
Endosulfan sulfate	ug/kg	500	0	422	84		26 - 144
Endrin	ug/kg	500	0	432	86		42 - 139
Endrin aldehyde	ug/kg	500	223	491	54		0 - 202
Endrin ketone	ug/kg	500	168	631	93		26 - 144
Heptachlor	ug/kg	500	0	435	87		35 - 130
Heptachlor epoxide	ug/kg	500	438	787	70		37 - 142
Methoxychlor	ug/kg	500	260	580	64		26 - 144
alpha-BHC	ug/kg	500	0	399	80		37 - 134
alpha-Chlordane	ug/kg	500	0	387	77		45 - 119
beta-BHC	ug/kg	500	0	507	101		17 - 147
delta-BHC	ug/kg	500	0	182	36		19 - 140
gamma-BHC (Lindane)	ug/kg	500	38	415	75		46 - 127
gamma-Chlordane	ug/kg	500	0	466	93		45 - 119

RPD : 0 out of 20 outside limits

Spike Recovery: 2 out of 40 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 05283GCP050217

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Contract: Method: SW-846 8081

Prep Batch: 287768 Analytical Batch: 288152

Spike Dupe HSN : 224434

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
4,4'-DDD	ug/kg	500	1370	274	*	22		31 - 141	0 - 40
4,4'-DDE	ug/kg	500	296	59		22		30 - 145	0 - 40
4,4'-DDT	ug/kg	500	396	76		23		23 - 134	0 - 40
Aldrin	ug/kg	500	302	46		27		35 - 132	0 - 40
Dieldrin	ug/kg	500	298	60		24		31 - 134	0 - 40
Endosulfan I	ug/kg	500	342	68		25		45 - 153	0 - 40
Endosulfan II	ug/kg	500	297	21		28		0 - 202	0 - 40
Endosulfan sulfate	ug/kg	500	323	65		27		26 - 144	0 - 40
Endrin	ug/kg	500	344	69		23		42 - 139	0 - 40
Endrin aldehyde	ug/kg	500	381	32		25		0 - 202	0 - 40
Endrin ketone	ug/kg	500	464	59		31		26 - 144	0 - 40
Heptachlor	ug/kg	500	328	66		28		35 - 130	0 - 40
Heptachlor epoxide	ug/kg	500	652	43		19		37 - 142	0 - 40
Methoxychlor	ug/kg	500	578	64		.3		26 - 144	0 - 40
alpha-BHC	ug/kg	500	299	60		29		37 - 134	0 - 40
alpha-Chlordane	ug/kg	500	310	62		22		45 - 119	0 - 40
beta-BHC	ug/kg	500	389	78		26		17 - 147	0 - 40
delta-BHC	ug/kg	500	133	27		31		19 - 140	0 - 40
gamma-BHC (Lindane)	ug/kg	500	317	56		27		46 - 127	0 - 40
gamma-Chlordane	ug/kg	500	385	77		19		45 - 119	0 - 40

RPD : 0 out of 20 outside limits

Spike Recovery: 2 out of 40 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224679

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224679

SAS No.: SDG No.: 205022104

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 02/22/05

Date Analyzed (1): 02/28/05 Time (1): 1705

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8081

Prep Batch: 287817 Analytical Batch: 288158

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224680	224680	02/28/05	1724		
2.	LCSD224681	224681	02/28/05	1753		
3.	05283LOP050217	20502180505	02/28/05	2353		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB224430

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 224430

SAS No.: SDG No.: 205022104

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 02/21/05

Date Analyzed (1): 02/28/05 Time (1): 1859

Date Analyzed (2): Time (2):

Instrument ID (1): GCS15B

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: SW-846 8081

Prep Batch: 287768 Analytical Batch: 288158

Lab File ID: 2050228P/SV15B

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS224431	224431	02/28/05	1917		
2.	LCSD224432	224432	02/28/05	1936		
3.	05283GCP050217	20502180504	03/01/05	0700		
4.	05283GCP050217MS	224433	03/01/05	0719		
5.	05283GCP050217MSD	224434	03/01/05	0737		

Report Date : 04-Mar-2005 15:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15.i/2050226.b/sv15015.d
Level 2: /var/chem/gcsv15.i/2050226.b/sv15016.d
Level 3: /var/chem/gcsv15.i/2050226.b/sv15017.d
Level 4: /var/chem/gcsv15.i/2050226.b/sv15018.d
Level 5: /var/chem/gcsv15.i/2050226.b/sv15019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
	2 alpha-BHC	5802750	5871322	6239122	4605727	6271058	5757996	11.770
	3 gamma-BHC (Lindane)	5404696	5249965	5534554	4797525	5562808	5309910	5.877
	4 Heptachlor	5666752	5735025	6235057	5732132	5844931	5842780	3.910
	5 Aldrin	5155331	4774825	5007626	4540801	4991157	4893948	4.895
	6 beta-BHC	2774555	2471670	2589879	2623242	2582699	2608409	4.179
	7 delta-BHC	3964169	3828655	3773808	3185480	4295974	3809617	10.595
	8 Heptachlor epoxide	4547818	4410898	4455664	3972812	4430949	4363628	5.149
	9 Endosulfan I	3840572	4154514	4224247	3866976	4198292	4056920	4.618
	10 gamma-Chlordane	4575698	4688534	4610682	4073454	4619873	4513648	5.527
	11 alpha-Chlordane	4350575	4342060	4367285	3690925	4410230	4232215	7.177
	12 4,4'-DDE	4464808	4488272	4539022	3893551	4536355	4384402	6.300
	13 Dieldrin	4570829	4533114	4628729	4020759	4626206	4475927	5.755
	14 Endrin	3567297	3509706	3523031	2994213	3608372	3440524	7.339
	15 4,4'-DDD	3774601	3870738	3888849	3255059	3868792	3731608	7.239
	16 Endosulfan II	3784764	3813586	3835173	3324613	3849339	3721495	5.997
	17 4,4'-DDT	3097663	3160207	3201611	2655680	3322684	3087569	8.260
	18 Endrin aldehyde	2910471	2920386	2869436	2422833	2860322	2796690	7.529
	19 Methoxychlor	1615778	1569794	1544233	1233379	1578317	1508300	10.330
	20 Endosulfan sulfate	3199384	3252535	3234710	2655262	3293024	3126983	8.502
	21 Endrin ketone	3614249	3641770	3724348	3034988	3764365	3555944	8.366
M	23 AR 1016-AVG	919936	888675	823360	799592	761575	838628	7.730
	24 AR 1016-PEAK1	90013	85247	74285	90000	78498	83609	8.406
	25 AR 1016-PEAK2	236792	226822	208395	192418	183532	209592	10.701
	26 AR 1016-PEAK3	442021	434422	407148	389615	377020	410045	6.825
	27 AR 1016-PEAK4	151111	142185	133532	127559	122524	135382	8.451
M	28 AR 1260-AVG	1118071	1075783	1046151	1048428	1035070	1064701	3.136

Report Date : 04-Mar-2005 15:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	150819	138101	137412	133017	127159	137302	6.356
	30 AR 1260-PEAK2	230317	219555	209237	204625	202710	213289	5.410
	31 AR 1260-PEAK3	269488	259130	249622	248733	244939	254382	3.904
	32 AR 1260-PEAK4	467448	458996	449880	462052	460262	459728	1.388
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	208008	+++++	+++++	208008	0.000
	38 AR 1221-PEAK1	+++++	+++++	13645	+++++	+++++	13645	0.000
	39 AR 1221-PEAK2	+++++	+++++	57875	+++++	+++++	57875	0.000
	40 AR 1221-PEAK3	+++++	+++++	34874	+++++	+++++	34874	0.000
	41 AR 1221-PEAK4	+++++	+++++	101614	+++++	+++++	101614	0.000
M	42 AR 1232-AVG	+++++	+++++	443847	+++++	+++++	443847	0.000
	43 AR 1232-PEAK1	+++++	+++++	101958	+++++	+++++	101958	0.000
	44 AR 1232-PEAK2	+++++	+++++	102998	+++++	+++++	102998	0.000
	45 AR 1232-PEAK3	+++++	+++++	173802	+++++	+++++	173802	0.000
	46 AR 1232-PEAK4	+++++	+++++	65088	+++++	+++++	65088	0.000
M	47 AR 1242-AVG	+++++	+++++	687204	+++++	+++++	687204	0.000
	48 AR 1242-PEAK1	+++++	+++++	65267	+++++	+++++	65267	0.000
	49 AR 1242-PEAK2	+++++	+++++	169829	+++++	+++++	169829	0.000
	50 AR 1242-PEAK3	+++++	+++++	329133	+++++	+++++	329133	0.000
	51 AR 1242-PEAK4	+++++	+++++	122975	+++++	+++++	122975	0.000
M	52 AR 1248-AVG	+++++	+++++	554539	+++++	+++++	554539	0.000
	53 AR 1248-PEAK1	+++++	+++++	78876	+++++	+++++	78876	0.000
	54 AR 1248-PEAK2	+++++	+++++	115836	+++++	+++++	115836	0.000
	55 AR 1248-PEAK3	+++++	+++++	156564	+++++	+++++	156564	0.000
	56 AR 1248-PEAK4	+++++	+++++	203263	+++++	+++++	203263	0.000
M	57 AR 1254-AVG	+++++	+++++	731294	+++++	+++++	731294	0.000
	58 AR 1254-PEAK1	+++++	+++++	78204	+++++	+++++	78204	0.000
	59 AR 1254-PEAK2	+++++	+++++	141400	+++++	+++++	141400	0.000
	60 AR 1254-PEAK3	+++++	+++++	290981	+++++	+++++	290981	0.000
	61 AR 1254-PEAK4	+++++	+++++	220709	+++++	+++++	220709	0.000

Report Date : 04-Mar-2005 15:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:26
End Cal Date : 26-FEB-2005 17:42
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date : 04-Mar-2005 10:46 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
M	62 TOXAPHENE-AVG	+++++	+++++	+++++	+++++	574543	574543	0.000
	63 TOXAPHENE-PEAK1	+++++	+++++	+++++	+++++	104230	104230	0.000
	64 TOXAPHENE-PEAK2	+++++	+++++	+++++	+++++	139641	139641	0.000
	65 TOXAPHENE-PEAK3	+++++	+++++	+++++	+++++	152774	152774	0.000
	66 TOXAPHENE-PEAK4	+++++	+++++	+++++	+++++	177898	177898	0.000
	67 TOXAPHENE-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	68 CHLORDANE-AVG	+++++	+++++	+++++	+++++	1514276	1514276	0.000
	69 CHLORDANE-PEAK1	+++++	+++++	+++++	+++++	199504	199504	0.000
	70 CHLORDANE-PEAK2	+++++	+++++	+++++	+++++	221659	221659	0.000
	71 CHLORDANE-PEAK3	+++++	+++++	+++++	+++++	510430	510430	0.000
	72 CHLORDANE-PEAK4	+++++	+++++	+++++	+++++	448048	448048	0.000
	73 CHLORDANE-PEAK5	+++++	+++++	+++++	+++++	134635	134635	0.000
M	74 AR 1268-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	75 AR 1268-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	76 AR 1268-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	77 AR 1268-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	78 AR 1268 PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	79 AR 1262-AVG	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	80 AR 1262-PEAK1	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	81 AR 1262-PEAK2	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	82 AR 1262-PEAK3	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	83 AR 1262-PEAK4	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$	1 Tetrachloro-m-xylene	6163952	4909541	4768677	4214094	5835291	5178311	15.488
$	22 Decachlorobiphenyl	3588431	3237012	3157804	2482357	3274882	3148097	12.915

Report Date : 04-Mar-2005 15:57

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:26
End Cal Date	: 26-FEB-2005 17:42
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Cal Date	: 04-Mar-2005 10:46 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 7.18817186                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15.i/2050226.b/sv15022.d
Report Date: 26-Feb-2005 19:16

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: 8081icv.spk
Sublist File: 8081.sub
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	69	114.86	85-115
3 gamma-BHC (Lindane	60	64	107.49	85-115
6 beta-BHC	60	62	103.83	85-115
4 Heptachlor	60	63	104.63	85-115
7 delta-BHC	60	64	106.83	85-115
5 Aldrin	60	65	107.91	85-115
8 Heptachlor epoxide	60	65	107.77	85-115
10 gamma-Chlordane	60	61	102.28	85-115
11 alpha-Chlordane	60	61	102.08	85-115
9 Endosulfan I	60	64	107.26	85-115
12 4,4'-DDE	60	64	105.84	85-115
13 Dieldrin	60	65	107.92	85-115
14 Endrin	60	64	106.76	85-115
15 4,4'-DDD	60	65	108.87	85-115
16 Endosulfan II	60	63	105.61	85-115
17 4,4'-DDT	60	63	105.58	85-115
18 Endrin aldehyde	60	59	98.43	85-115
20 Endosulfan sulfate	60	64	107.19	85-115
19 Methoxychlor	60	65	108.14	85-115
21 Endrin ketone	60	65	108.38	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xyl	500	0.0	*	45-148
$ 22 Decachlorobiphenyl	500	0.0	*	34-135

Data File: /var/chem/gcsv15.i/2050228p.b/sv15019.d
Report Date: 01-Mar-2005 12:47

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 28-FEB-2005 21:27
Lab File ID: sv15019.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:26 17:42
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	5178311	5431076	0.010	-4.88122	15.00000	Averaged
2 alpha-BHC	5757996	6298756	0.010	-9.39146	15.00000	Averaged
3 gamma-BHC (Lindane)	5309910	5403291	0.010	-1.75862	15.00000	Averaged
6 beta-BHC	2608409	2737784	0.010	-4.95991	15.00000	Averaged
7 delta-BHC	3809617	4312042	0.010	-13.18834	15.00000	Averaged
4 Heptachlor	5842780	5940048	0.010	-1.66476	15.00000	Averaged
5 Aldrin	4893948	5009818	0.010	-2.36761	15.00000	Averaged
8 Heptachlor epoxide	4363628	4406658	0.010	-0.98609	15.00000	Averaged
10 gamma-Chlordane	4513648	4551439	0.010	-0.83726	15.00000	Averaged
11 alpha-Chlordane	4232215	4233961	0.010	-0.04124	15.00000	Averaged
9 Endosulfan I	4056920	4231265	0.010	-4.29747	15.00000	Averaged
12 4,4'-DDE	4384402	4406445	0.010	-0.50278	15.00000	Averaged
13 Dieldrin	4475927	4545807	0.010	-1.56122	15.00000	Averaged
14 Endrin	3440524	3416155	0.010	0.70829	15.00000	Averaged
15 4,4'-DDD	3731608	3776770	0.010	-1.21026	15.00000	Averaged
16 Endosulfan II	3721495	3740031	0.010	-0.49809	15.00000	Averaged
18 Endrin aldehyde	2796690	2864124	0.010	-2.41121	15.00000	Averaged
17 4,4'-DDT	3087569	3234689	0.010	-4.76490	15.00000	Averaged
20 Endosulfan sulfate	3126983	3273254	0.010	-4.67770	15.00000	Averaged
19 Methoxychlor	1508300	1543029	0.010	-2.30248	15.00000	Averaged
21 Endrin ketone	3555944	3711272	0.010	-4.36812	15.00000	Averaged
$ 22 Decachlorobiphenyl	3148097	3088515	0.010	1.89265	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.14871
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15034.d
Report Date: 01-Mar-2005 15:02

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15034.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 02:40
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	5178311	4990064	0.010	3.63529	15.00000	Averaged	
2 alpha-BHC	5757996	6562520	0.010	-13.97230	15.00000	Averaged	
3 gamma-BHC (Lindane)	5309910	5780987	0.010	-8.87167	15.00000	Averaged	
6 beta-BHC	2608409	2790057	0.010	-6.96393	15.00000	Averaged	
7 delta-BHC	3809617	4390729	0.010	-15.25382	15.00000	Averaged	<-
4 Heptachlor	5842780	6666710	0.010	-14.10168	15.00000	Averaged	
5 Aldrin	4893948	5228470	0.010	-6.83541	15.00000	Averaged	
8 Heptachlor epoxide	4363628	4646426	0.010	-6.48079	15.00000	Averaged	
10 gamma-Chlordane	4513648	4792603	0.010	-6.18024	15.00000	Averaged	
11 alpha-Chlordane	4232215	4491148	0.010	-6.11815	15.00000	Averaged	
9 Endosulfan I	4056920	4398997	0.010	-8.43194	15.00000	Averaged	
12 4,4'-DDE	4384402	4701586	0.010	-7.23438	15.00000	Averaged	
13 Dieldrin	4475927	4818504	0.010	-7.65377	15.00000	Averaged	
14 Endrin	3440524	3786767	0.010	-10.06368	15.00000	Averaged	
15 4,4'-DDD	3731608	4080042	0.010	-9.33739	15.00000	Averaged	
16 Endosulfan II	3721495	4009385	0.010	-7.73588	15.00000	Averaged	
18 Endrin aldehyde	2796690	3060297	0.010	-9.42571	15.00000	Averaged	
17 4,4'-DDT	3087569	3563915	0.010	-15.42788	15.00000	Averaged	<-
20 Endosulfan sulfate	3126983	3577009	0.010	-14.39171	15.00000	Averaged	
19 Methoxychlor	1508300	1714586	0.010	-13.67666	15.00000	Averaged	
21 Endrin ketone	3555944	4010987	0.010	-12.79670	15.00000	Averaged	
$ 22 Decachlorobiphenyl	3148097	3385689	0.010	-7.54716	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 9.64255
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15043.d
Report Date: 01-Mar-2005 15:02

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i
Lab File ID: sv15043.d
Analysis Type: WATER
Lab Sample ID: 1400
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

Injection Date: 01-MAR-2005 05:27
Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Init. Cal. Times: 12:26 17:42
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	5178311	5858895	0.010	-13.14296	15.00000	Averaged
2 alpha-BHC	5757996	5992320	0.010	-4.06954	15.00000	Averaged
3 gamma-BHC (Lindane)	5309910	5209294	0.010	1.89486	15.00000	Averaged
6 beta-BHC	2608409	2472944	0.010	5.19341	15.00000	Averaged
7 delta-BHC	3809617	4176942	0.010	-9.64205	15.00000	Averaged
4 Heptachlor	5842780	5840568	0.010	0.03785	15.00000	Averaged
5 Aldrin	4893948	4669383	0.010	4.58862	15.00000	Averaged
8 Heptachlor epoxide	4363628	4162504	0.010	4.60910	15.00000	Averaged
10 gamma-Chlordane	4513648	4235846	0.010	6.15472	15.00000	Averaged
11 alpha-Chlordane	4232215	4035682	0.010	4.64373	15.00000	Averaged
9 Endosulfan I	4056920	3954572	0.010	2.52280	15.00000	Averaged
12 4,4'-DDE	4384402	4226666	0.010	3.59765	15.00000	Averaged
13 Dieldrin	4475927	4345842	0.010	2.90634	15.00000	Averaged
14 Endrin	3440524	3428005	0.010	0.36387	15.00000	Averaged
15 4,4'-DDD	3731608	3649751	0.010	2.19360	15.00000	Averaged
16 Endosulfan II	3721495	3593915	0.010	3.42819	15.00000	Averaged
18 Endrin aldehyde	2796690	2732400	0.010	2.29877	15.00000	Averaged
17 4,4'-DDT	3087569	3203062	0.010	-3.74059	15.00000	Averaged
20 Endosulfan sulfate	3126983	3193128	0.010	-2.11528	15.00000	Averaged
19 Methoxychlor	1508300	1622121	0.010	-7.54630	15.00000	Averaged
21 Endrin ketone	3555944	3639614	0.010	-2.35297	15.00000	Averaged
$ 22 Decachlorobiphenyl	3148097	3000078	0.010	4.70186	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.17023
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15.i/2050228p.b/sv15053.d
Report Date: 01-Mar-2005 12:51

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15.i Injection Date: 01-MAR-2005 08:33
Lab File ID: sv15053.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:26 17:42
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15.i/2050228p.b/pest35MS.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	5178311	5614165	0.010	-8.41692	15.00000	Averaged	
2 alpha-BHC	5757996	5715896	0.010	0.73115	15.00000	Averaged	
3 gamma-BHC (Lindane)	5309910	5034355	0.010	5.18944	15.00000	Averaged	
6 beta-BHC	2608409	2294290	0.010	12.04256	15.00000	Averaged	
7 delta-BHC	3809617	4010007	0.010	-5.26010	15.00000	Averaged	
4 Heptachlor	5842780	5480631	0.010	6.19823	15.00000	Averaged	
5 Aldrin	4893948	4381608	0.010	10.46884	15.00000	Averaged	
8 Heptachlor epoxide	4363628	3914241	0.010	10.29848	15.00000	Averaged	
10 gamma-Chlordane	4513648	3969737	0.010	12.05037	15.00000	Averaged	
11 alpha-Chlordane	4232215	3761869	0.010	11.11347	15.00000	Averaged	
9 Endosulfan I	4056920	3729580	0.010	8.06869	15.00000	Averaged	
12 4,4'-DDE	4384402	4054922	0.010	7.51482	15.00000	Averaged	
13 Dieldrin	4475927	4192380	0.010	6.33494	15.00000	Averaged	
14 Endrin	3440524	3341532	0.010	2.87724	15.00000	Averaged	
15 4,4'-DDD	3731608	3626029	0.010	2.82930	15.00000	Averaged	
16 Endosulfan II	3721495	3471885	0.010	6.70726	15.00000	Averaged	
18 Endrin aldehyde	2796690	2624843	0.010	6.14466	15.00000	Averaged	
17 4,4'-DDT	3087569	2908120	0.010	5.81198	15.00000	Averaged	
20 Endosulfan sulfate	3126983	3153821	0.010	-0.85826	15.00000	Averaged	
19 Methoxychlor	1508300	1585825	0.010	-5.13986	15.00000	Averaged	
21 Endrin ketone	3555944	3649101	0.010	-2.61975	15.00000	Averaged	
$ 22 Decachlorobiphenyl	3148097	2485608	0.010	21.04412	15.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 7.16911
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Report Date : 07-Mar-2005 10:43

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcsv15b.i/2050226.b/sv15b015.d
Level 2: /var/chem/gcsv15b.i/2050226.b/sv15b016.d
Level 3: /var/chem/gcsv15b.i/2050226.b/sv15b017.d
Level 4: /var/chem/gcsv15b.i/2050226.b/sv15b018.d
Level 5: /var/chem/gcsv15b.i/2050226.b/sv15b019.d

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	RRF	% RSD
	2 alpha-BHC	12144604	12710175	12680362	12533618	12386289	12491010	1.863
	3 gamma-BHC (Lindane)	11057675	11400469	11241527	11065569	10941651	11141378	1.617
	4 Heptachlor	7883439	8571668	8494849	8359996	8400248	8342040	3.228
	5 Aldrin	10045457	10160034	9734624	9559232	9369377	9773745	3.371
	6 beta-BHC	5372555	5195359	5186473	4962726	4904981	5124419	3.712
	7 delta-BHC	10763796	11187742	11126167	10979606	10839720	10979406	1.648
	8 Heptachlor epoxide	10460643	9089150	8555353	8345266	8202336	8930550	10.293
	9 Endosulfan I	10489870	8868454	8110673	7930935	7812554	8642497	12.861
	10 gamma-Chlordane	9313725	9311513	9023671	8857525	8770767	9055440	2.780
	11 alpha-Chlordane	9241864	9051515	8785471	8607979	8495467	8836459	3.496
	12 4,4'-DDE	9355584	9026156	8512565	8309587	8263272	8693433	5.499
	13 Dieldrin	9389390	9231903	8721419	8532012	8453158	8865576	4.755
	14 Endrin	7089224	6950149	6615502	6363260	6459144	6695456	4.679
	15 4,4'-DDD	6019792	7672318	7426177	7278403	7186459	7116630	8.994
	16 Endosulfan II	7696972	7493142	7109214	6923354	6922797	7229096	4.843
	17 4,4'-DDT	5396069	5943688	6032168	5828923	6075455	5855261	4.671
	18 Endrin aldehyde	6030436	5954979	5645092	5494688	5508176	5726674	4.388
	19 Methoxychlor	2800314	2896692	2865059	2739946	2898251	2840052	2.415
	20 Endosulfan sulfate	6628193	6604678	6357094	6182901	6214827	6397538	3.290
	21 Endrin ketone	7322552	7378886	7243522	7139042	7182989	7253398	1.355
M	23 AR 1016-AVG	1133234	1109112	1014342	906064	820442	996639	13.356
	24 AR 1016-PEAK1	205922	219801	198035	184091	161031	193776	11.565
	25 AR 1016-PEAK2	274177	255840	240636	202397	191798	232970	15.038
	26 AR 1016-PEAK3	391525	373862	333550	305047	263808	333558	15.478
	27 AR 1016-PEAK4	261610	259609	242121	214529	203805	236335	11.090
M	28 AR 1260-AVG	2487280	2413448	2284583	2089372	2111422	2277221	7.779

Report Date : 07-Mar-2005 10:43

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
	29 AR 1260-PEAK1	480265	461384	426641	386211	380030	426906	10.403
	30 AR 1260-PEAK2	552355	536442	502033	456855	455500	500637	8.884
	31 AR 1260-PEAK3	600885	574998	542732	496292	499133	542808	8.483
	32 AR 1260-PEAK4	853775	840624	813177	750014	776759	806870	5.373
M	33 AR 1260-AVGII	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	34 AR 1260-PEAK5	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	35 AR 1260-PEAK6	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	36 AR 1260-PEAK7	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	37 AR 1221-AVG	+++++	+++++	511429	+++++	+++++	511429	0.000
	38 AR 1221-PEAK1	+++++	+++++	78512	+++++	+++++	78512	0.000
	39 AR 1221-PEAK2	+++++	+++++	109288	+++++	+++++	109288	0.000
	40 AR 1221-PEAK3	+++++	+++++	71563	+++++	+++++	71563	0.000
	41 AR 1221-PEAK4	+++++	+++++	252066	+++++	+++++	252066	0.000
M	42 AR 1232-AVG	+++++	+++++	534969	+++++	+++++	534969	0.000
	43 AR 1232-PEAK1	+++++	+++++	227048	+++++	+++++	227048	0.000
	44 AR 1232-PEAK2	+++++	+++++	70641	+++++	+++++	70641	0.000
	45 AR 1232-PEAK3	+++++	+++++	146973	+++++	+++++	146973	0.000
	46 AR 1232-PEAK4	+++++	+++++	90308	+++++	+++++	90308	0.000
M	47 AR 1242-AVG	+++++	+++++	814185	+++++	+++++	814185	0.000
	48 AR 1242-PEAK1	+++++	+++++	146859	+++++	+++++	146859	0.000
	49 AR 1242-PEAK2	+++++	+++++	191545	+++++	+++++	191545	0.000
	50 AR 1242-PEAK3	+++++	+++++	269231	+++++	+++++	269231	0.000
	51 AR 1242-PEAK4	+++++	+++++	206550	+++++	+++++	206550	0.000
M	52 AR 1248-AVG	+++++	+++++	1169121	+++++	+++++	1169121	0.000
	53 AR 1248-PEAK1	+++++	+++++	210052	+++++	+++++	210052	0.000
	54 AR 1248-PEAK2	+++++	+++++	275405	+++++	+++++	275405	0.000
	55 AR 1248-PEAK3	+++++	+++++	298651	+++++	+++++	298651	0.000
	56 AR 1248-PEAK4	+++++	+++++	385014	+++++	+++++	385014	0.000
M	57 AR 1254-AVG	+++++	+++++	1463965	+++++	+++++	1463965	0.000
	58 AR 1254-PEAK1	+++++	+++++	178390	+++++	+++++	178390	0.000
	59 AR 1254-PEAK2	+++++	+++++	281362	+++++	+++++	281362	0.000
	60 AR 1254-PEAK3	+++++	+++++	526821	+++++	+++++	526821	0.000
	61 AR 1254-PEAK4	+++++	+++++	477393	+++++	+++++	477393	0.000

Report Date : 07-Mar-2005 10:43

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2005 12:44
End Cal Date : 26-FEB-2005 18:00
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date : 07-Mar-2005 10:20 hjl
Curve Type : Average

	Compound	5.000 Level 1	20.000 Level 2	60.000 Level 3	80.000 Level 4	100.000 Level 5	___ RRF	% RSD
M	62 TOXAPHENE-AVG	++++++	++++++	++++++	++++++	845561	845561	0.000
	63 TOXAPHENE-PEAK1	++++++	++++++	++++++	++++++	172884	172884	0.000
	64 TOXAPHENE-PEAK2	++++++	++++++	++++++	++++++	186350	186350	0.000
	65 TOXAPHENE-PEAK3	++++++	++++++	++++++	++++++	255915	255915	0.000
	66 TOXAPHENE-PEAK4	++++++	++++++	++++++	++++++	230412	230412	0.000
	67 TOXAPHENE-PEAK5	++++++	++++++	++++++	++++++	++++++	++++++	++++++
M	68 CHLORDANE-AVG	++++++	++++++	++++++	++++++	2867373	2867373	0.000
	69 CHLORDANE-PEAK1	++++++	++++++	++++++	++++++	401568	401568	0.000
	70 CHLORDANE-PEAK2	++++++	++++++	++++++	++++++	421259	421259	0.000
	71 CHLORDANE-PEAK3	++++++	++++++	++++++	++++++	1177484	1177484	0.000
	72 CHLORDANE-PEAK4	++++++	++++++	++++++	++++++	867063	867063	0.000
	73 CHLORDANE-PEAK5	++++++	++++++	++++++	++++++	++++++	++++++	++++++
M	74 AR 1268-AVG	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	75 AR 1268-PEAK1	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	76 AR 1268-PEAK2	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	77 AR 1268-PEAK3	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	78 AR 1268 PEAK4	++++++	++++++	++++++	++++++	++++++	++++++	++++++
M	79 AR 1262-AVG	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	80 AR 1262-PEAK1	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	81 AR 1262-PEAK2	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	82 AR 1262-PEAK3	++++++	++++++	++++++	++++++	++++++	++++++	++++++
	83 AR 1262-PEAK4	++++++	++++++	++++++	++++++	++++++	++++++	++++++
$	1 Tetrachloro-m-xylene	11657127	11604669	11175543	11023841	10730723	11238381	3.495
$	22 Decachlorobiphenyl	6139163	5750432	5646283	5515756	5694429	5749213	4.081

Report Date : 07-Mar-2005 10:43

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date	: 26-FEB-2005 12:44
End Cal Date	: 26-FEB-2005 18:00
Quant Method	: ESTD
Origin	: Disabled
Target Version	: 3.50
Integrator	: Falcon
Method file	: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Cal Date	: 07-Mar-2005 10:20 hjl
Curve Type	: Average

```
|Average %RSD Results.                                |
|=====================================================|
|Calculated Average %RSD = 6.39947748                 |
|Maximun Average %RSD    =         20                 |
|* Passed Average %RSD Test.                          |
|_____________________________________________________|
```

Data File: /var/chem/gcsv15b.i/2050226.b/sv15b022.d
Report Date: 26-Feb-2005 19:20

GCAL, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1600
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: 8081icv.spk
Sublist File: 8081.sub
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Misc Info: GCSV~47 ~*

Client SDG: 2050226
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
2 alpha-BHC	60	65	108.61	85-115
3 gamma-BHC (Lindane	60	63	105.02	85-115
6 beta-BHC	60	62	102.51	85-115
4 Heptachlor	60	64	106.30	85-115
7 delta-BHC	60	60	100.77	85-115
5 Aldrin	60	63	104.72	85-115
8 Heptachlor epoxide	60	60	99.87	85-115
10 gamma-Chlordane	60	60	99.34	85-115
11 alpha-Chlordane	60	59	98.01	85-115
9 Endosulfan I	60	57	94.84	85-115
12 4,4'-DDE	60	62	102.73	85-115
13 Dieldrin	60	63	104.99	85-115
14 Endrin	60	64	107.24	85-115
15 4,4'-DDD	60	67	111.17	85-115
16 Endosulfan II	60	63	104.48	85-115
17 4,4'-DDT	60	67	111.11	85-115
18 Endrin aldehyde	60	61	101.37	85-115
20 Endosulfan sulfate	60	65	107.90	85-115
19 Methoxychlor	60	68	113.72	85-115
21 Endrin ketone	60	65	108.18	85-115

SURROGATE COMPOUND	CONC ADDED UG/L	CONC RECOVERED UG/L	% RECOVERED	LIMITS
$ 1 Tetrachloro-m-xyl	500	0.0	*	45-148
$ 22 Decachlorobiphenyl	500	0.0	*	34-135

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b002.d
Report Date: 01-Mar-2005 15:08

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 28-FEB-2005 14:50
Lab File ID: sv15b002.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10943375	0.010	2.62498	15.00000	Averaged
2 alpha-BHC	12491010	12313609	0.010	1.42022	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10901736	0.010	2.15092	15.00000	Averaged
6 beta-BHC	5124419	4845088	0.010	5.45098	15.00000	Averaged
7 delta-BHC	10979406	10638569	0.010	3.10433	15.00000	Averaged
4 Heptachlor	8342040	9125885	0.010	-9.39632	15.00000	Averaged
5 Aldrin	9773745	9492948	0.010	2.87297	15.00000	Averaged
8 Heptachlor epoxide	8930550	8416123	0.010	5.76030	15.00000	Averaged
10 gamma-Chlordane	9055440	8850911	0.010	2.25863	15.00000	Averaged
11 alpha-Chlordane	8836459	8540396	0.010	3.35047	15.00000	Averaged
9 Endosulfan I	8642497	8091196	0.010	6.37896	15.00000	Averaged
12 4,4'-DDE	8693433	8386429	0.010	3.53145	15.00000	Averaged
13 Dieldrin	8865576	8632669	0.010	2.62710	15.00000	Averaged
14 Endrin	6695456	6755928	0.010	-0.90318	15.00000	Averaged
15 4,4'-DDD	7116630	6992959	0.010	1.73777	15.00000	Averaged
16 Endosulfan II	7229096	7107210	0.010	1.68604	15.00000	Averaged
18 Endrin aldehyde	5726674	5612945	0.010	1.98595	15.00000	Averaged
17 4,4'-DDT	5855261	6635672	0.010	-13.32838	15.00000	Averaged
20 Endosulfan sulfate	6397538	6552174	0.010	-2.41712	15.00000	Averaged
19 Methoxychlor	2734565	3128539	0.010	-14.40717	15.00000	Averaged
21 Endrin ketone	7253398	7636508	0.010	-5.28179	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	5993406	0.010	-4.24743	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.40557
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b015.d
Report Date: 01-Mar-2005 15:09

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 28-FEB-2005 20:50
Lab File ID: sv15b015.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10960137	0.010	2.47583	15.00000	Averaged
2 alpha-BHC	12491010	12380769	0.010	0.88256	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10981223	0.010	1.43748	15.00000	Averaged
6 beta-BHC	5124419	4874039	0.010	4.88602	15.00000	Averaged
7 delta-BHC	10979406	10811395	0.010	1.53024	15.00000	Averaged
4 Heptachlor	8342040	9025763	0.010	-8.19611	15.00000	Averaged
5 Aldrin	9773745	9493495	0.010	2.86737	15.00000	Averaged
8 Heptachlor epoxide	8930550	8387078	0.010	6.08553	15.00000	Averaged
10 gamma-Chlordane	9055440	8778287	0.010	3.06063	15.00000	Averaged
11 alpha-Chlordane	8836459	8530104	0.010	3.46695	15.00000	Averaged
9 Endosulfan I	8642497	7935121	0.010	8.18486	15.00000	Averaged
12 4,4'-DDE	8693433	8331000	0.010	4.16904	15.00000	Averaged
13 Dieldrin	8865576	8598030	0.010	3.01781	15.00000	Averaged
14 Endrin	6695456	6731603	0.010	-0.53989	15.00000	Averaged
15 4,4'-DDD	7116630	7120632	0.010	-0.05624	15.00000	Averaged
16 Endosulfan II	7229096	7089287	0.010	1.93398	15.00000	Averaged
18 Endrin aldehyde	5726674	5667485	0.010	1.03357	15.00000	Averaged
17 4,4'-DDT	5855261	6604096	0.010	-12.78910	15.00000	Averaged
20 Endosulfan sulfate	6397538	6559753	0.010	-2.53558	15.00000	Averaged
19 Methoxychlor	2734565	3140376	0.010	-14.84004	15.00000	Averaged
21 Endrin ketone	7253398	7627080	0.010	-5.15181	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	6090176	0.010	-5.93061	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.32142
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b019.d
Report Date: 01-Mar-2005 15:09

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 28-FEB-2005 22:39
Lab File ID: sv15b019.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 1 Tetrachloro-m-xylene	11238381	10996639	0.010	2.15104	15.00000	Averaged	
2 alpha-BHC	12491010	12440950	0.010	0.40076	15.00000	Averaged	
3 gamma-BHC (Lindane)	11141378	11095690	0.010	0.41008	15.00000	Averaged	
6 beta-BHC	5124419	4918671	0.010	4.01505	15.00000	Averaged	
7 delta-BHC	10979406	10562950	0.010	3.79307	15.00000	Averaged	
4 Heptachlor	8342040	9022531	0.010	-8.15737	15.00000	Averaged	
5 Aldrin	9773745	9543691	0.010	2.35379	15.00000	Averaged	
8 Heptachlor epoxide	8930550	8416855	0.010	5.75211	15.00000	Averaged	
10 gamma-Chlordane	9055440	8815404	0.010	2.65075	15.00000	Averaged	
11 alpha-Chlordane	8836459	8566926	0.010	3.05024	15.00000	Averaged	
9 Endosulfan I	8642497	7989865	0.010	7.55143	15.00000	Averaged	
12 4,4'-DDE	8693433	8444992	0.010	2.85780	15.00000	Averaged	
13 Dieldrin	8865576	8692376	0.010	1.95363	15.00000	Averaged	
14 Endrin	6695456	6823974	0.010	-1.91948	15.00000	Averaged	
15 4,4'-DDD	7116630	7134808	0.010	-0.25543	15.00000	Averaged	
16 Endosulfan II	7229096	7157408	0.010	0.99166	15.00000	Averaged	
18 Endrin aldehyde	5726674	5740254	0.010	-0.23712	15.00000	Averaged	
17 4,4'-DDT	5855261	6715655	0.010	-14.69437	15.00000	Averaged	
20 Endosulfan sulfate	6397538	6601804	0.010	-3.19288	15.00000	Averaged	
19 Methoxychlor	2734565	3158004	0.010	-15.48469	15.00000	Averaged	<-
21 Endrin ketone	7253398	7700362	0.010	-6.16213	15.00000	Averaged	
$ 22 Decachlorobiphenyl	5749213	6126188	0.010	-6.55700	15.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 4.29963
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/gcsv15b.i/2050228p.b/sv15b033.d
Report Date: 01-Mar-2005 15:10

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv15b.i Injection Date: 01-MAR-2005 02:59
Lab File ID: sv15b033.d Init. Cal. Date(s): 26-FEB-2005 26-FEB-2005
Analysis Type: WATER Init. Cal. Times: 12:44 18:00
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m

COMPOUND	RRF / AMOUNT	RF60	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 1 Tetrachloro-m-xylene	11238381	10913819	0.010	2.88798	15.00000	Averaged
2 alpha-BHC	12491010	12393866	0.010	0.77771	15.00000	Averaged
3 gamma-BHC (Lindane)	11141378	10955076	0.010	1.67217	15.00000	Averaged
6 beta-BHC	5124419	4876063	0.010	4.84653	15.00000	Averaged
7 delta-BHC	10979406	10767631	0.010	1.92884	15.00000	Averaged
4 Heptachlor	8342040	9090875	0.010	-8.97664	15.00000	Averaged
5 Aldrin	9773745	9484242	0.010	2.96204	15.00000	Averaged
8 Heptachlor epoxide	8930550	8362477	0.010	6.36100	15.00000	Averaged
10 gamma-Chlordane	9055440	8749315	0.010	3.38056	15.00000	Averaged
11 alpha-Chlordane	8836459	8525642	0.010	3.51744	15.00000	Averaged
9 Endosulfan I	8642497	7898209	0.010	8.61196	15.00000	Averaged
12 4,4'-DDE	8693433	8268863	0.010	4.88381	15.00000	Averaged
13 Dieldrin	8865576	8565728	0.010	3.38217	15.00000	Averaged
14 Endrin	6695456	6652278	0.010	0.64488	15.00000	Averaged
15 4,4'-DDD	7116630	7218918	0.010	-1.43732	15.00000	Averaged
16 Endosulfan II	7229096	7019235	0.010	2.90300	15.00000	Averaged
18 Endrin aldehyde	5726674	5587863	0.010	2.42394	15.00000	Averaged
17 4,4'-DDT	5855261	6202007	0.010	-5.92197	15.00000	Averaged
20 Endosulfan sulfate	6397538	6437453	0.010	-0.62390	15.00000	Averaged
19 Methoxychlor	2734565	3004764	0.010	-9.88085	15.00000	Averaged
21 Endrin ketone	7253398	7565156	0.010	-4.29809	15.00000	Averaged
$ 22 Decachlorobiphenyl	5749213	5979731	0.010	-4.00956	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.92420
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2/22/05 1100	BATCH NO:	287817
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 287817 [EXTO/7100]	224679	1000	10.0	7	8081	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287817 [EXTO/7100]	224680	1000	10.0	7		
3	QC ACCOUNT	LCSD for HBN 287817 [EXTO/7100	224681	1000	10.0	7		SEPARATORY FUNNEL/3510 ✓
4	4380	05283WC2W050217	20502180605	1000	10.0	7		
5	4380	05283LOP050217	20502180505	1000	10.0	7		GPC CLEANUP/3640
6	4380	05283WC1W050217 (TCLP)	20502180602	100	10.0	7		
7	QC ACCOUNT	05283WC1W050217 (... (224286MS)	224682	100	10.0	7		SONICATOR/3550
8	QC ACCOUNT	05283WC1W050217 ... (224286MSD)	224683	100	10.0	7		
9	4380	05283WC4W050217 (TCLP)	20502180604	100	10.0	7		FLORISIL CLEANUP/3620
10	1996	NORTH PLANT SLUDGE (TCLP)	20502172209	100	10.0	7		
11			221+BLK	100	10.0	7		PCB H2So4/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No:
20								
21								ACETONE LOT NO:
22								
23								MECL2 Lot No: 045514
24								
25								HEXANE Lot No:
26								
27								Sodium Sulfate Lot No: 044031
28								

SKB 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	9-9-9	8081 SPIKE ID		608 SPIKE ID	9-4-3	TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME		VOLUME	0.5mL	[illegible]	2/22/05
CONCENTRATION	0.5ug/mL	CONCENTRATION		CONCENTRATION	1.0ug/mL		
ACID						SUPERVISOR	DATE
SPIKE WITNESS						John Bailey	02/22/05

PESTICIDE SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	2-21-05 1230	BATCH NO:	287768
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 287768 [EXTO/7092]	224430	30.0	10.0		Pest	LIQUID LIQUID/3520
2	QC ACCOUNT	LCS for HBN 287768 [EXTO/7092]	224431	30.0	10.0			
3	QC ACCOUNT	LCSD for HBN 287768 [EXTO/7092	224432	30.0	10.0			SEPARATORY FUNNEL/3510
4	4380	05283GCP050217	20502180504	1.0	10.0		Due to Matrix *	
5	QC ACCOUNT	05283GCP050217(224284MS)	224433	1.0	10.0		Due to Matrix *	GPC CLEANUP/3640
6	QC ACCOUNT	05283GCP050217 (224284MSD)	224434	1.0	10.0		Due to Matrix *	
7	4484	TO1090101	20502182401	30.0	10.0			SONICATOR/3550 ✓
8								
9								FLORISIL CLEANUP/3620
10								
11								PCB H2S04/3665A CLEANUP
12								
13								WASTE DILUTION/3580
14								
15								TCLP EXTRACTION FLUID 1
16								
17								TCLP EXTRACTION FLUID 2
18								
19								MECL2/Acetone No: 1-76-8
20								
21								ACETONE LOT NO: 046140
22								
23								MECL2 Lot No: 045514
24								
25								HEXANE Lot No: 044711
26								
27								Sodium Sulfate Lot No: 044031
28								

Sub 02/22/05

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

Due to Matrix of sample only one gram was used

ABP 2-21-05

SURROGATE ID	9-9-9	8081 SPIKE ID		608 SPIKE ID	9-4-3	TECHNICIAN	DATE
VOLUME 1.0ml	~~0.5ml~~	VOLUME		VOLUME	0.5ml		
CONCENTRATION	0.5ug/ml	CONCENTRATION		CONCENTRATION	1.0ug/ml	Alex Polyzopoulos	2-21-05
ACID						SUPERVISOR	DATE
SPIKE WITNESS	KH					John Bailey	02/22/05

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/04/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050226.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050226.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15001.d	26-FEB-2005 11:59	1.000	tls	
1201		sv15002.d	26-FEB-2005 12:26	1.000	tls	
1202		sv15003.d	26-FEB-2005 12:44	1.000	tls	
1203		sv15004.d	26-FEB-2005 13:03	1.000	tls	
1204		sv15005.d	26-FEB-2005 13:21	1.000	tls	
1205		sv15006.d	26-FEB-2005 13:40	1.000	tls	
1600		sv15007.d	26-FEB-2005 13:59	1.000	tls	
1205		sv15008.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15009.d	26-FEB-2005 14:36	1.000	tls	
1203		sv15010.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15011.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15012.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15013.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15014.d	26-FEB-2005 16:09	1.000	tls	
1201		sv15015.d	26-FEB-2005 16:27	1.000	tls	
1202		sv15016.d	26-FEB-2005 16:46	1.000	tls	
1203		sv15017.d	26-FEB-2005 17:05	1.000	tls	
1204		sv15018.d	26-FEB-2005 17:23	1.000	tls	
1205		sv15019.d	26-FEB-2005 17:42	1.000	tls	
1600		sv15020.d	26-FEB-2005 18:00	1.000	tls	
DEG		sv15021.d	26-FEB-2005 18:19	1.000	tls	
1600		sv15022.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15001.d	28-FEB-2005 14:13	1.000	tls	
1400		sv15002.d	28-FEB-2005 14:32	1.000	tls	
1400		sv15003.d	28-FEB-2005 14:50	1.000	tls	
224679/84		sv15004.d	28-FEB-2005 16:28	1.000	sjt	
224680		sv15005.d	28-FEB-2005 16:47	1.000	sjt	
224681		sv15006.d	28-FEB-2005 17:05	1.000	sjt	
224685		sv15007.d	28-FEB-2005 17:24	1.000	sjt	
224686		sv15008.d	28-FEB-2005 17:53	1.000	sjt	
224430		sv15009.d	28-FEB-2005 18:21	1.000	sjt	
224431		sv15010.d	28-FEB-2005 18:40	1.000	sjt	
224432		sv15011.d	28-FEB-2005 18:59	1.000	sjt	
224435		sv15012.d	28-FEB-2005 19:17	1.000	sjt	
224436		sv15013.d	28-FEB-2005 19:36	1.000	sjt	
1400		sv15015.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15016.d	28-FEB-2005 20:31	1.000	sjt	
224437		sv15017.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15019.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15020.d	28-FEB-2005 21:46	1.000	sjt	
1400		sv15021.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15022.d	28-FEB-2005 22:57	1.000	sjt	
20502180505		sv15023.d	28-FEB-2005 23:16	1.000	sjt	
20502180602		sv15024.d	28-FEB-2005 23:34	1.000	sjt	
224682		sv15025.d	28-FEB-2005 23:53	1.000	sjt	
224683		sv15026.d	01-MAR-2005 00:12	1.000	sjt	
20502180604		sv15027.d	01-MAR-2005 00:30	1.000	sjt	
0221tblk		sv15028.d	01-MAR-2005 00:49	1.000	sjt	
20502172209		sv15029.d	01-MAR-2005 01:08	1.000	sjt	
20502182401		sv15030.d	01-MAR-2005 01:26	1.000	sjt	
deg		sv15032.d	01-MAR-2005 02:03	1.000	sjt	
1400		sv15033.d	01-MAR-2005 02:22	1.000	sjt	
1400		sv15034.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15035.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15036.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15043.d	01-MAR-2005 05:27	1.000	sjt	
1400		sv15044.d	01-MAR-2005 05:46	1.000	sjt	
1400		sv15045.d	01-MAR-2005 06:05	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15.i
Method File: /var/chem/gcsv15.i/2050228p.b/pest35MS.m
Batch: /var/chem/gcsv15.i/2050228p.b
Column-Detector: RTX-35MS-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
1400		sv15046.d	01-MAR-2005 06:23	1.000	sjt	
20502180504		sv15047.d	01-MAR-2005 06:41	10.000	sjt	
20502180504		sv15048.d	01-MAR-2005 07:00	1.000	sjt	
224433		sv15049.d	01-MAR-2005 07:19	1.000	sjt	
224434		sv15050.d	01-MAR-2005 07:37	1.000	sjt	
20502180504		sv15051.d	01-MAR-2005 07:56	1.000	sjt	
1400		sv15053.d	01-MAR-2005 08:33	1.000	sjt	
1400		sv15054.d	01-MAR-2005 08:51	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 02/28/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050226.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050226.b
Column-Detector: RTX-XLB

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DEG		sv15b001.d	26-FEB-2005 12:26	1.000	tls	
1201		sv15b002.d	26-FEB-2005 12:44	1.000	tls	
1202		sv15b003.d	26-FEB-2005 13:03	1.000	tls	
1203		sv15b004.d	26-FEB-2005 13:21	1.000	tls	
1204		sv15b005.d	26-FEB-2005 13:40	1.000	tls	
1205		sv15b006.d	26-FEB-2005 13:59	1.000	tls	
1600		sv15b007.d	26-FEB-2005 14:17	1.000	tls	
1205		sv15b008.d	26-FEB-2005 14:36	1.000	tls	
1205		sv15b009.d	26-FEB-2005 14:54	1.000	tls	
1203		sv15b010.d	26-FEB-2005 15:13	1.000	tls	
1203		sv15b011.d	26-FEB-2005 15:32	1.000	tls	
1203		sv15b012.d	26-FEB-2005 15:50	1.000	tls	
1203		sv15b013.d	26-FEB-2005 16:09	1.000	tls	
1203		sv15b014.d	26-FEB-2005 16:27	1.000	tls	
1201		sv15b015.d	26-FEB-2005 16:46	1.000	tls	
1202		sv15b016.d	26-FEB-2005 17:05	1.000	tls	
1203		sv15b017.d	26-FEB-2005 17:23	1.000	tls	
1204		sv15b018.d	26-FEB-2005 17:42	1.000	tls	
1205		sv15b019.d	26-FEB-2005 18:00	1.000	tls	
1600		sv15b020.d	26-FEB-2005 18:19	1.000	tls	
DEG		sv15b021.d	26-FEB-2005 18:38	1.000	tls	
1600		sv15b022.d	26-FEB-2005 18:56	1.000	tls	
1600		sv15b024.d	26-FEB-2005 19:48	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
deg		sv15b001.d	28-FEB-2005 14:32	1.000	sjt	
1400		sv15b002.d	28-FEB-2005 14:50	1.000	sjt	
1400		sv15b003.d	28-FEB-2005 15:09	1.000	sjt	
224684		sv15b004.d	28-FEB-2005 17:05	1.000	sjt	
224680		sv15b005.d	28-FEB-2005 17:24	1.000	sjt	
224681		sv15b006.d	28-FEB-2005 17:53	1.000	sjt	
224685		sv15b007.d	28-FEB-2005 18:21	1.000	sjt	
224686		sv15b008.d	28-FEB-2005 18:40	1.000	sjt	
224430		sv15b009.d	28-FEB-2005 18:59	1.000	sjt	
224431		sv15b010.d	28-FEB-2005 19:17	1.000	sjt	
224432		sv15b011.d	28-FEB-2005 19:36	1.000	sjt	
224435		sv15b012.d	28-FEB-2005 19:54	1.000	sjt	
224436		sv15b013.d	28-FEB-2005 20:13	1.000	sjt	
1400		sv15b015.d	28-FEB-2005 20:50	1.000	sjt	
1400		sv15b016.d	28-FEB-2005 21:09	1.000	sjt	
224437		sv15b017.d	28-FEB-2005 21:27	1.000	sjt	
1400		sv15b019.d	28-FEB-2005 22:39	1.000	sjt	
1400		sv15b020.d	28-FEB-2005 22:57	1.000	sjt	
1400		sv15b021.d	28-FEB-2005 23:16	1.000	sjt	
1400		sv15b022.d	28-FEB-2005 23:34	1.000	sjt	
20502180505		sv15b023.d	28-FEB-2005 23:53	1.000	sjt	
20502180602		sv15b024.d	01-MAR-2005 00:12	1.000	sjt	
224682		sv15b025.d	01-MAR-2005 00:30	1.000	sjt	
224683		sv15b026.d	01-MAR-2005 00:49	1.000	sjt	
20502180604		sv15b027.d	01-MAR-2005 01:08	1.000	sjt	
0221tblk		sv15b028.d	01-MAR-2005 01:26	1.000	sjt	
20502172209		sv15b029.d	01-MAR-2005 01:45	1.000	sjt	
20502182401		sv15b030.d	01-MAR-2005 02:03	1.000	sjt	
deg		sv15b032.d	01-MAR-2005 02:40	1.000	sjt	
1400		sv15b033.d	01-MAR-2005 02:59	1.000	sjt	
1400		sv15b034.d	01-MAR-2005 03:17	1.000	sjt	
1400		sv15b035.d	01-MAR-2005 03:36	1.000	sjt	
1400		sv15b036.d	01-MAR-2005 03:55	1.000	sjt	
20502180601		sv15b037.d	01-MAR-2005 04:13	1.000	sjt	
20502180603		sv15b038.d	01-MAR-2005 04:32	1.000	sjt	
224438		sv15b039.d	01-MAR-2005 04:50	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 03/01/2005
Instrument: gcsv15b.i
Method File: /var/chem/gcsv15b.i/2050228p.b/pestXLB.m
Batch: /var/chem/gcsv15b.i/2050228p.b
Column-Detector: RTX-XLB-30M

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
224439		sv15b040.d	01-MAR-2005 05:09	1.000	sjt	
1400		sv15b043.d	01-MAR-2005 06:05	1.000	sjt	
1400		sv15b044.d	01-MAR-2005 06:23	1.000	sjt	
1400		sv15b045.d	01-MAR-2005 06:41	1.000	sjt	
1400		sv15b046.d	01-MAR-2005 07:00	1.000	sjt	
20502180504		sv15b047.d	01-MAR-2005 07:19	10.000	sjt	
20502180504		sv15b048.d	01-MAR-2005 07:37	1.000	sjt	
224433		sv15b049.d	01-MAR-2005 07:56	1.000	sjt	
224434		sv15b050.d	01-MAR-2005 08:14	1.000	sjt	
1400		sv15b053.d	01-MAR-2005 09:10	1.000	sjt	
1400		sv15b054.d	01-MAR-2005 09:29	1.000	sjt	
1400		sv15b055.d	01-MAR-2005 09:47	1.000	sjt	
1400		sv15b056.d	01-MAR-2005 10:06	1.000	sjt	
20502180605		sv15b057.d	01-MAR-2005 11:23	10.000	sjt	
hexane		sv15b058.d	01-MAR-2005 11:42	1.000	sjt	
1400		sv15b059.d	01-MAR-2005 12:01	1.000	sjt	
1400		sv15b060.d	01-MAR-2005 12:19	1.000	sjt	
1400		sv15b061.d	01-MAR-2005 12:38	1.000	sjt	
1400		sv15b062.d	01-MAR-2005 12:56	1.000	sjt	

REVISED 6-1-95 Supervisor Review: QA Review:

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

SOW No.:

EPA Sample No.	***Lab Sample ID.***
05283GCP050217	20502180504
05283LOP050217	20502180505

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: 05283GCP050217
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Soil
SAS No.:
SDG No.: 205022104
Level: (low / med)
% Solids:
Lab Sample ID: 20502180504
Date Received: 02/18/05
Time: 0920
Date Collected: 02/17/05
Time: 1000

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	1.60	mg/kg	U	0.26	1.60	SW-846 6010B	P
Barium	200	mg/kg		0.018	0.40	SW-846 6010B	P
Cadmium	0.23	mg/kg		0.0040	0.20	SW-846 6010B	P
Chromium	0.40	mg/kg	U	0.018	0.40	SW-846 6010B	P
Lead	23.4	mg/kg		0.074	0.60	SW-846 6010B	P
Mercury	0.0028	mg/kg	B	0.0020	0.010	SW-846 7471A	AV
Selenium	1.38	mg/kg	B	0.099	1.60	SW-846 6010B	P
Silver	0.40	mg/kg	U	0.021	0.40	SW-846 6010B	P

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: 05283LOP050217
Lab Code: LA024
Case No.:
Contract:
Matrix: (soil / water) Water
SAS No.:
SDG No.: 205022104
Level: (low / med)
% Solids:
Lab Sample ID: 20502180505
Date Received: 02/18/05
Time: 0920
Date Collected: 02/17/05
Time: 1015

Analyte	Concentration	Units	C	MDL	PQL	Method	Type
Arsenic	0.010	mg/L	U	0.0025	0.010	SW-846 6010B	P
Barium	0.0046	mg/L	B	0.00030	0.20	SW-846 6010B	P
Cadmium	0.0050	mg/L	U	0.00010	0.0050	SW-846 6010B	P
Chromium	0.0024	mg/L	B	0.00050	0.0050	SW-846 6010B	P
Lead	0.0030	mg/L	U	0.0015	0.0030	SW-846 6010B	P
Mercury	0.00020	mg/L	U	0.00008	0.00020	SW-846 7470A	AV
Selenium	0.0050	mg/L	U	0.0031	0.0050	SW-846 6010B	P
Silver	0.0050	mg/L	U	0.00060	0.0050	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205022104
Calibration Source: 125-47-2 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 0926

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.92	99	mg/L	SW-846 6010B	P
Antimony	1.00	0.990	99	mg/L	SW-846 6010B	P
Arsenic	1.00	1.02	102	mg/L	SW-846 6010B	P
Barium	1.00	1.01	101	mg/L	SW-846 6010B	P
Beryllium	1.00	0.980	98	mg/L	SW-846 6010B	P
Boron	5.00	5.14	103	mg/L	SW-846 6010B	P
Cadmium	1.00	0.990	99	mg/L	SW-846 6010B	P
Calcium	10.0	9.54	95	mg/L	SW-846 6010B	P
Chromium	1.00	0.990	99	mg/L	SW-846 6010B	P
Cobalt	1.00	0.990	99	mg/L	SW-846 6010B	P
Copper	1.00	1.00	100	mg/L	SW-846 6010B	P
Iron	10.0	9.59	96	mg/L	SW-846 6010B	P
Lead	1.00	1.00	100	mg/L	SW-846 6010B	P
Lithium	1.00	0.990	99	mg/L	SW-846 6010B	P
Magnesium	10.0	9.49	95	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.980	98	mg/L	SW-846 6010B	P
Nickel	1.00	1.00	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.1	101	mg/L	SW-846 6010B	P
Selenium	1.00	0.990	99	mg/L	SW-846 6010B	P
Silver	1.00	0.940	94	mg/L	SW-846 6010B	P
Sodium	10.0	9.88	99	mg/L	SW-846 6010B	P
Strontium	1.00	1.00	100	mg/L	SW-846 6010B	P
Thallium	1.00	1.03	103	mg/L	SW-846 6010B	P
Tin	1.00	1.04	104	mg/L	SW-846 6010B	P
Titanium	1.00	0.990	99	mg/L	SW-846 6010B	P
Vanadium	1.00	0.990	99	mg/L	SW-846 6010B	P
Zinc	1.00	0.970	97	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.: 205022104
Calibration Source: 136-4-1 INORGANIC VENTURES
Instrument ID: ICP5
ICAL ID: 3
Date Analyzed: 02/22/05
Time: 0945

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.170	83	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0610	101	mg/L	SW-846 6010B	P
Arsenic	0.0400	0.0400	99	mg/L	SW-846 6010B	P
Barium	0.0100	0.0100	104	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00490	98	mg/L	SW-846 6010B	P
Boron	0.500	0.550	111	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00490	97	mg/L	SW-846 6010B	P
Calcium	0.100	0.130	125	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0100	103	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0100	102	mg/L	SW-846 6010B	P
Copper	0.0100	0.00960	96	mg/L	SW-846 6010B	P
Iron	0.100	0.110	112	mg/L	SW-846 6010B	P
Lead	0.0150	0.0160	110	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0480	96	mg/L	SW-846 6010B	P
Magnesium	0.100	0.140	144	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0110	76	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0500	101	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0410	102	mg/L	SW-846 6010B	P
Potassium	0.500	0.520	104	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0300	75	mg/L	SW-846 6010B	P
Silver	0.0100	0.00990	99	mg/L	SW-846 6010B	P
Sodium	1.00	0.600	60	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0530	106	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00740	74	mg/L	SW-846 6010B	P
Tin	0.100	0.110	113	mg/L	SW-846 6010B	P
Titanium	0.100	0.100	102	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	104	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0200	101	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1016

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.25	105	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.50	100	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	5.08	102	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	99	mg/L	SW-846 6010B	P
Copper	0.500	0.510	101	mg/L	SW-846 6010B	P
Iron	5.00	5.13	103	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.18	104	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.87	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	99	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.9	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	102	mg/L	SW-846 6010B	P
Thallium	0.500	0.520	104	mg/L	SW-846 6010B	P
Tin	0.500	0.510	101	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	99	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1139

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.97	99	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	94	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	99	mg/L	SW-846 6010B	P
Barium	0.500	0.490	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.63	105	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	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	98	mg/L	SW-846 6010B	P
Copper	0.500	0.500	101	mg/L	SW-846 6010B	P
Iron	5.00	4.97	99	mg/L	SW-846 6010B	P
Lead	0.500	0.490	97	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	4.97	99	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	97	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	99	mg/L	SW-846 6010B	P
Potassium	10.0	9.92	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	97	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	98	mg/L	SW-846 6010B	P
Strontium	0.500	0.500	101	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	100	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1206

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.07	101	mg/L	SW-846 6010B	P
Antimony	0.500	0.480	97	mg/L	SW-846 6010B	P
Arsenic	0.500	0.500	101	mg/L	SW-846 6010B	P
Barium	0.500	0.500	99	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.65	106	mg/L	SW-846 6010B	P
Cadmium	0.500	0.490	98	mg/L	SW-846 6010B	P
Calcium	5.00	4.96	99	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	99	mg/L	SW-846 6010B	P
Copper	0.500	0.500	101	mg/L	SW-846 6010B	P
Iron	5.00	5.02	100	mg/L	SW-846 6010B	P
Lead	0.500	0.490	99	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	100	mg/L	SW-846 6010B	P
Magnesium	5.00	5.06	101	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	9.82	98	mg/L	SW-846 6010B	P
Selenium	0.500	0.490	99	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	19.5	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.510	103	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	101	mg/L	SW-846 6010B	P
Tin	0.500	0.510	102	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.490	98	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1345

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	0.490	98	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.510	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	100	mg/L	SW-846 6010B	P
Calcium	5.00	4.67	93	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 6010B	P
Copper	0.500	0.510	103	mg/L	SW-846 6010B	P
Iron	5.00	4.83	97	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.61	92	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	101	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	101	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	97	mg/L	SW-846 6010B	P
Silver	0.500	0.510	102	mg/L	SW-846 6010B	P
Sodium	20.0	20.1	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	97	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	102	mg/L	SW-846 6010B	P
Tin	0.500	0.500	99	mg/L	SW-846 6010B	P
Vanadium	0.500	0.510	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.500	100	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	100	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1511

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.87	97	mg/L	SW-846 6010B	P
Antimony	0.500	0.470	95	mg/L	SW-846 6010B	P
Arsenic	0.500	0.490	97	mg/L	SW-846 6010B	P
Barium	0.500	0.500	100	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.54	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.480	95	mg/L	SW-846 6010B	P
Calcium	5.00	4.79	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	100	mg/L	SW-846 6010B	P
Cobalt	0.500	0.490	99	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	4.90	98	mg/L	SW-846 6010B	P
Lead	0.500	0.480	96	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.75	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.480	95	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	100	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.480	95	mg/L	SW-846 6010B	P
Silver	0.500	0.500	101	mg/L	SW-846 6010B	P
Sodium	20.0	21.1	106	mg/L	SW-846 6010B	P
Strontium	0.500	0.490	98	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	99	mg/L	SW-846 6010B	P
Tin	0.500	0.490	98	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.480	95	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	99	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 1642

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	0.450	91	mg/L	SW-846 6010B	P
Arsenic	0.500	0.470	95	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.52	101	mg/L	SW-846 6010B	P
Cadmium	0.500	0.460	91	mg/L	SW-846 6010B	P
Calcium	5.00	4.68	94	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.480	95	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	4.86	97	mg/L	SW-846 6010B	P
Lead	0.500	0.460	93	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.56	91	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.460	91	mg/L	SW-846 6010B	P
Nickel	0.500	0.490	97	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.450	90	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	20.5	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.470	93	mg/L	SW-846 6010B	P
Thallium	0.500	0.480	96	mg/L	SW-846 6010B	P
Tin	0.500	0.450	90	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.460	92	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205022104

Calibration Source: 136-6-1 INORGANIC VENTURES

Instrument ID: ICP5 ICAL ID: 3

Date Analyzed: 02/22/05 Time: 1807

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	0.440	87	mg/L	SW-846 6010B	P
Arsenic	0.500	0.450	90	mg/L	SW-846 6010B	P
Barium	0.500	0.490	97	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	100	mg/L	SW-846 6010B	P
Boron	2.50	2.61	104	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	89	mg/L	SW-846 6010B	P
Calcium	5.00	4.84	97	mg/L	SW-846 6010B	P
Chromium	0.500	0.500	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.470	95	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.03	101	mg/L	SW-846 6010B	P
Lead	0.500	0.450	90	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.70	94	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	99	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.440	87	mg/L	SW-846 6010B	P
Nickel	0.500	0.480	96	mg/L	SW-846 6010B	P
Potassium	10.0	10.8	108	mg/L	SW-846 6010B	P
Selenium	0.500	0.420	85	mg/L	SW-846 6010B	P
Silver	0.500	0.500	99	mg/L	SW-846 6010B	P
Sodium	20.0	22.0	110	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	92	mg/L	SW-846 6010B	P
Thallium	0.500	0.460	91	mg/L	SW-846 6010B	P
Tin	0.500	0.440	87	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	100	mg/L	SW-846 6010B	P
Zinc	0.500	0.440	88	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	99	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.: 205022104

Calibration Source: 136-6-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 3

Date Analyzed: 02/22/05 Time: 1933

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.99	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.410	82	mg/L	SW-846 6010B	P
Arsenic	0.500	0.430	85	mg/L	SW-846 6010B	P
Barium	0.500	0.480	95	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.55	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.420	84	mg/L	SW-846 6010B	P
Calcium	5.00	4.97	99	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	98	mg/L	SW-846 6010B	P
Cobalt	0.500	0.460	92	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.20	104	mg/L	SW-846 6010B	P
Lead	0.500	0.430	86	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	104	mg/L	SW-846 6010B	P
Magnesium	5.00	4.74	95	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	97	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.410	83	mg/L	SW-846 6010B	P
Nickel	0.500	0.470	94	mg/L	SW-846 6010B	P
Potassium	10.0	10.8	108	mg/L	SW-846 6010B	P
Selenium	0.500	0.400	80	mg/L	SW-846 6010B	P
Silver	0.500	0.500	100	mg/L	SW-846 6010B	P
Sodium	20.0	21.6	108	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	91	mg/L	SW-846 6010B	P
Thallium	0.500	0.440	87	mg/L	SW-846 6010B	P
Tin	0.500	0.410	82	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	99	mg/L	SW-846 6010B	P
Zinc	0.500	0.420	84	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	98	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.: 205022104

Calibration Source: 136-6-1 INORGANIC VENTURES Instrument ID: ICP5 ICAL ID: 3

Date Analyzed: 02/22/05 Time: 2059

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	5.10	102	mg/L	SW-846 6010B	P
Antimony	0.500	0.380	75	mg/L	SW-846 6010B	P
Arsenic	0.500	0.390	78	mg/L	SW-846 6010B	P
Barium	0.500	0.440	89	mg/L	SW-846 6010B	P
Beryllium	0.500	0.480	97	mg/L	SW-846 6010B	P
Boron	2.50	2.44	98	mg/L	SW-846 6010B	P
Cadmium	0.500	0.390	77	mg/L	SW-846 6010B	P
Calcium	5.00	5.04	101	mg/L	SW-846 6010B	P
Chromium	0.500	0.460	93	mg/L	SW-846 6010B	P
Cobalt	0.500	0.430	85	mg/L	SW-846 6010B	P
Copper	0.500	0.480	95	mg/L	SW-846 6010B	P
Iron	5.00	5.23	105	mg/L	SW-846 6010B	P
Lead	0.500	0.400	80	mg/L	SW-846 6010B	P
Lithium	0.500	0.500	101	mg/L	SW-846 6010B	P
Magnesium	5.00	5.08	102	mg/L	SW-846 6010B	P
Manganese	0.500	0.460	91	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.380	76	mg/L	SW-846 6010B	P
Nickel	0.500	0.440	88	mg/L	SW-846 6010B	P
Potassium	10.0	10.3	103	mg/L	SW-846 6010B	P
Selenium	0.500	0.360	72	mg/L	SW-846 6010B	P
Silver	0.500	0.480	95	mg/L	SW-846 6010B	P
Sodium	20.0	19.9	100	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	91	mg/L	SW-846 6010B	P
Thallium	0.500	0.400	80	mg/L	SW-846 6010B	P
Tin	0.500	0.370	75	mg/L	SW-846 6010B	P
Vanadium	0.500	0.470	93	mg/L	SW-846 6010B	P
Zinc	0.500	0.390	77	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 02/22/05 Time: 2119

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.99	100	mg/L	SW-846 6010B	P
Antimony	0.500	0.400	80	mg/L	SW-846 6010B	P
Arsenic	0.500	0.410	82	mg/L	SW-846 6010B	P
Barium	0.500	0.460	92	mg/L	SW-846 6010B	P
Beryllium	0.500	0.490	98	mg/L	SW-846 6010B	P
Boron	2.50	2.48	99	mg/L	SW-846 6010B	P
Cadmium	0.500	0.400	81	mg/L	SW-846 6010B	P
Calcium	5.00	4.81	96	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	97	mg/L	SW-846 6010B	P
Cobalt	0.500	0.440	89	mg/L	SW-846 6010B	P
Copper	0.500	0.500	100	mg/L	SW-846 6010B	P
Iron	5.00	5.08	102	mg/L	SW-846 6010B	P
Lead	0.500	0.420	83	mg/L	SW-846 6010B	P
Lithium	0.500	0.520	103	mg/L	SW-846 6010B	P
Magnesium	5.00	4.69	94	mg/L	SW-846 6010B	P
Manganese	0.500	0.480	95	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.400	79	mg/L	SW-846 6010B	P
Nickel	0.500	0.460	92	mg/L	SW-846 6010B	P
Potassium	10.0	10.4	104	mg/L	SW-846 6010B	P
Selenium	0.500	0.380	76	mg/L	SW-846 6010B	P
Silver	0.500	0.500	99	mg/L	SW-846 6010B	P
Sodium	20.0	20.7	103	mg/L	SW-846 6010B	P
Strontium	0.500	0.460	92	mg/L	SW-846 6010B	P
Thallium	0.500	0.420	84	mg/L	SW-846 6010B	P
Tin	0.500	0.390	78	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	97	mg/L	SW-846 6010B	P
Zinc	0.500	0.410	81	mg/L	SW-846 6010B	P
Zirconium	0.500	0.490	97	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.: 205022104
Calibration Source: 125-47-2 CPI/EXAXOL
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 02/23/05 Time: 0857

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Aluminum	10.0	9.92	99	mg/L	SW-846 6010B	P
Antimony	1.00	1.01	101	mg/L	SW-846 6010B	P
Arsenic	1.00	1.02	102	mg/L	SW-846 6010B	P
Barium	1.00	1.00	100	mg/L	SW-846 6010B	P
Beryllium	1.00	0.980	98	mg/L	SW-846 6010B	P
Boron	5.00	5.11	102	mg/L	SW-846 6010B	P
Cadmium	1.00	0.980	98	mg/L	SW-846 6010B	P
Calcium	10.0	9.60	96	mg/L	SW-846 6010B	P
Chromium	1.00	0.980	98	mg/L	SW-846 6010B	P
Cobalt	1.00	0.980	98	mg/L	SW-846 6010B	P
Copper	1.00	0.990	99	mg/L	SW-846 6010B	P
Iron	10.0	9.64	96	mg/L	SW-846 6010B	P
Lead	1.00	1.01	101	mg/L	SW-846 6010B	P
Lithium	1.00	1.00	100	mg/L	SW-846 6010B	P
Magnesium	10.0	9.31	93	mg/L	SW-846 6010B	P
Manganese	1.00	0.990	99	mg/L	SW-846 6010B	P
Molybdenum	1.00	0.990	99	mg/L	SW-846 6010B	P
Nickel	1.00	0.990	99	mg/L	SW-846 6010B	P
Potassium	10.0	10.2	102	mg/L	SW-846 6010B	P
Selenium	1.00	1.00	100	mg/L	SW-846 6010B	P
Silver	1.00	0.930	93	mg/L	SW-846 6010B	P
Sodium	10.0	9.71	97	mg/L	SW-846 6010B	P
Strontium	1.00	0.960	96	mg/L	SW-846 6010B	P
Thallium	1.00	1.03	103	mg/L	SW-846 6010B	P
Tin	1.00	1.05	105	mg/L	SW-846 6010B	P
Titanium	1.00	1.00	100	mg/L	SW-846 6010B	P
Vanadium	1.00	0.980	98	mg/L	SW-846 6010B	P
Zinc	1.00	0.970	97	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.: 205022104
Calibration Source: 136-4-1 INORGANIC VENTURES
Instrument ID: ICP5
ICAL ID: 4
Date Analyzed: 02/23/05
Time: 0916

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	0.200	0.290	143	mg/L	SW-846 6010B	P
Antimony	0.0600	0.0630	105	mg/L	SW-846 6010B	P
Arsenic	0.0400	0.0400	101	mg/L	SW-846 6010B	P
Barium	0.0100	0.0100	105	mg/L	SW-846 6010B	P
Beryllium	0.00500	0.00500	100	mg/L	SW-846 6010B	P
Boron	0.500	0.570	114	mg/L	SW-846 6010B	P
Cadmium	0.00500	0.00480	96	mg/L	SW-846 6010B	P
Calcium	0.100	0.0870	87	mg/L	SW-846 6010B	P
Chromium	0.0100	0.0100	101	mg/L	SW-846 6010B	P
Cobalt	0.0100	0.0100	103	mg/L	SW-846 6010B	P
Copper	0.0100	0.0100	105	mg/L	SW-846 6010B	P
Iron	0.100	0.120	116	mg/L	SW-846 6010B	P
Lead	0.0150	0.0140	95	mg/L	SW-846 6010B	P
Lithium	0.0500	0.0480	97	mg/L	SW-846 6010B	P
Magnesium	0.100	0.140	139	mg/L	SW-846 6010B	P
Manganese	0.0150	0.0150	99	mg/L	SW-846 6010B	P
Molybdenum	0.0500	0.0510	101	mg/L	SW-846 6010B	P
Nickel	0.0400	0.0420	106	mg/L	SW-846 6010B	P
Potassium	0.500	0.480	96	mg/L	SW-846 6010B	P
Selenium	0.0400	0.0300	76	mg/L	SW-846 6010B	P
Silver	0.0100	0.00950	95	mg/L	SW-846 6010B	P
Sodium	1.00	0.310	31	mg/L	SW-846 6010B	P
Strontium	0.0500	0.0510	102	mg/L	SW-846 6010B	P
Thallium	0.0100	0.00470	47	mg/L	SW-846 6010B	P
Tin	0.100	0.110	114	mg/L	SW-846 6010B	P
Titanium	0.100	0.100	103	mg/L	SW-846 6010B	P
Vanadium	0.0200	0.0210	104	mg/L	SW-846 6010B	P
Zinc	0.0200	0.0200	102	mg/L	SW-846 6010B	P

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 02/23/05 Time: 0943

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.80	96	mg/L	SW-846 6010B	P
Antimony	0.500	0.490	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	102	mg/L	SW-846 6010B	P
Barium	0.500	0.500	101	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	101	mg/L	SW-846 6010B	P
Boron	2.50	2.54	102	mg/L	SW-846 6010B	P
Cadmium	0.500	0.510	101	mg/L	SW-846 6010B	P
Calcium	5.00	4.67	93	mg/L	SW-846 6010B	P
Chromium	0.500	0.510	101	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	101	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	4.81	96	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.510	101	mg/L	SW-846 6010B	P
Magnesium	5.00	4.62	92	mg/L	SW-846 6010B	P
Manganese	0.500	0.500	100	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.500	100	mg/L	SW-846 6010B	P
Nickel	0.500	0.510	102	mg/L	SW-846 6010B	P
Potassium	10.0	10.3	103	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	99	mg/L	SW-846 6010B	P
Silver	0.500	0.510	101	mg/L	SW-846 6010B	P
Sodium	20.0	20.2	101	mg/L	SW-846 6010B	P
Strontium	0.500	0.480	95	mg/L	SW-846 6010B	P
Thallium	0.500	0.510	101	mg/L	SW-846 6010B	P
Tin	0.500	0.500	100	mg/L	SW-846 6010B	P
Vanadium	0.500	0.500	101	mg/L	SW-846 6010B	P
Zinc	0.500	0.510	101	mg/L	SW-846 6010B	P
Zirconium	0.500	0.500	99	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 02/23/05 Time: 1054

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	0.490	99	mg/L	SW-846 6010B	P
Arsenic	0.500	0.510	101	mg/L	SW-846 6010B	P
Barium	0.500	0.490	98	mg/L	SW-846 6010B	P
Beryllium	0.500	0.500	99	mg/L	SW-846 6010B	P
Boron	2.50	2.56	103	mg/L	SW-846 6010B	P
Cadmium	0.500	0.500	99	mg/L	SW-846 6010B	P
Calcium	5.00	4.70	94	mg/L	SW-846 6010B	P
Chromium	0.500	0.490	99	mg/L	SW-846 6010B	P
Cobalt	0.500	0.500	100	mg/L	SW-846 6010B	P
Copper	0.500	0.510	102	mg/L	SW-846 6010B	P
Iron	5.00	4.72	94	mg/L	SW-846 6010B	P
Lead	0.500	0.500	100	mg/L	SW-846 6010B	P
Lithium	0.500	0.720	143	mg/L	SW-846 6010B	P
Magnesium	5.00	4.79	96	mg/L	SW-846 6010B	P
Manganese	0.500	0.490	98	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.490	99	mg/L	SW-846 6010B	P
Nickel	0.500	0.500	101	mg/L	SW-846 6010B	P
Potassium	10.0	9.95	99	mg/L	SW-846 6010B	P
Selenium	0.500	0.500	99	mg/L	SW-846 6010B	P
Silver	0.500	0.500	99	mg/L	SW-846 6010B	P
Sodium	20.0	19.3	97	mg/L	SW-846 6010B	P
Strontium	0.500	0.480	97	mg/L	SW-846 6010B	P
Thallium	0.500	0.500	101	mg/L	SW-846 6010B	P
Tin	0.500	0.530	106	mg/L	SW-846 6010B	P
Vanadium	0.500	0.490	98	mg/L	SW-846 6010B	P
Zinc	0.500	0.530	105	mg/L	SW-846 6010B	P
Zirconium	0.500	0.480	96	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 02/24/05 Time: 0836

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.28	86	mg/L	SW-846 6010B	P
Antimony	0.500	0.430	85	mg/L	SW-846 6010B	P
Arsenic	0.500	0.440	88	mg/L	SW-846 6010B	P
Barium	0.500	0.450	90	mg/L	SW-846 6010B	P
Beryllium	0.500	0.460	91	mg/L	SW-846 6010B	P
Boron	2.50	2.22	89	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	87	mg/L	SW-846 6010B	P
Calcium	5.00	4.28	86	mg/L	SW-846 6010B	P
Chromium	0.500	0.450	91	mg/L	SW-846 6010B	P
Cobalt	0.500	0.450	89	mg/L	SW-846 6010B	P
Copper	0.500	0.460	91	mg/L	SW-846 6010B	P
Iron	5.00	4.32	86	mg/L	SW-846 6010B	P
Lead	0.500	0.440	87	mg/L	SW-846 6010B	P
Lithium	0.500	0.470	94	mg/L	SW-846 6010B	P
Magnesium	5.00	4.31	86	mg/L	SW-846 6010B	P
Manganese	0.500	0.450	90	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.430	86	mg/L	SW-846 6010B	P
Nickel	0.500	0.450	90	mg/L	SW-846 6010B	P
Potassium	10.0	9.20	92	mg/L	SW-846 6010B	P
Selenium	0.500	0.410	83	mg/L	SW-846 6010B	P
Silver	0.500	0.450	90	mg/L	SW-846 6010B	P
Sodium	20.0	17.6	88	mg/L	SW-846 6010B	P
Strontium	0.500	0.430	87	mg/L	SW-846 6010B	P
Thallium	0.500	0.450	90	mg/L	SW-846 6010B	P
Tin	0.500	0.440	88	mg/L	SW-846 6010B	P
Vanadium	0.500	0.450	90	mg/L	SW-846 6010B	P
Zinc	0.500	0.430	87	mg/L	SW-846 6010B	P
Zirconium	0.500	0.440	89	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.: 205022104
Calibration Source: 136-6-1 INORGANIC VENTURES
Instrument ID: ICP5 ICAL ID: 4
Date Analyzed: 02/24/05 Time: 0857

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Aluminum	5.00	4.35	87	mg/L	SW-846 6010B	P
Antimony	0.500	0.430	86	mg/L	SW-846 6010B	P
Arsenic	0.500	0.430	87	mg/L	SW-846 6010B	P
Barium	0.500	0.450	89	mg/L	SW-846 6010B	P
Beryllium	0.500	0.450	91	mg/L	SW-846 6010B	P
Boron	2.50	2.24	90	mg/L	SW-846 6010B	P
Cadmium	0.500	0.440	87	mg/L	SW-846 6010B	P
Calcium	5.00	4.29	86	mg/L	SW-846 6010B	P
Chromium	0.500	0.450	90	mg/L	SW-846 6010B	P
Cobalt	0.500	0.440	89	mg/L	SW-846 6010B	P
Copper	0.500	0.450	90	mg/L	SW-846 6010B	P
Iron	5.00	4.27	85	mg/L	SW-846 6010B	P
Lead	0.500	0.430	87	mg/L	SW-846 6010B	P
Lithium	0.500	0.450	91	mg/L	SW-846 6010B	P
Magnesium	5.00	4.36	87	mg/L	SW-846 6010B	P
Manganese	0.500	0.450	89	mg/L	SW-846 6010B	P
Molybdenum	0.500	0.430	86	mg/L	SW-846 6010B	P
Nickel	0.500	0.450	90	mg/L	SW-846 6010B	P
Potassium	10.0	8.92	89	mg/L	SW-846 6010B	P
Selenium	0.500	0.420	83	mg/L	SW-846 6010B	P
Silver	0.500	0.450	89	mg/L	SW-846 6010B	P
Sodium	20.0	17.1	85	mg/L	SW-846 6010B	P
Strontium	0.500	0.450	89	mg/L	SW-846 6010B	P
Thallium	0.500	0.440	88	mg/L	SW-846 6010B	P
Tin	0.500	0.440	88	mg/L	SW-846 6010B	P
Vanadium	0.500	0.450	90	mg/L	SW-846 6010B	P
Zinc	0.500	0.430	86	mg/L	SW-846 6010B	P
Zirconium	0.500	0.440	89	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.: 205022104

Calibration Source: 136-1-4 CPI

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 02/22/05 Time: 1435

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00480	96	mg/L	SW-846 7471A	AV

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.: 205022104

Calibration Source: 136-1-3 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 02/22/05 Time: 1438

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00513	103	mg/L	SW-846 7471A	AV

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.: 205022104
Calibration Source: 136-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 02/22/05 Time: 1459

CONTINUING CALIBRATION VERIFICATION

Analyte	True	Found	CAL %R	Units	Method	Type
Mercury	0.00500	0.00512	102	mg/L	SW-846 7471A	AV

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.: 205022104

Calibration Source: 136-1-3 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 02/22/05 Time: 1506

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00508	102	mg/L	SW-846 7471A	AV

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.: 205022104
Calibration Source: 136-1-4 CPI
Instrument ID: FIMS1 ICAL ID: 2
Date Analyzed: 02/23/05 Time: 1446

INITIAL CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00495	99	mg/L	SW-846 7470A	AV

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.: 205022104

Calibration Source: 136-1-3 EXAXOL

Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 02/23/05 Time: 1449

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00491	98	mg/L	SW-846 7470A	AV

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.: 205022104

Calibration Source: 136-1-3 EXAXOL

Instrument ID: FIMS1 ICAL ID: 2

Date Analyzed: 02/23/05 Time: 1510

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00485	97	mg/L	SW-846 7470A	AV

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.: 205022104
Calibration Source: 136-1-3 EXAXOL
Instrument ID: FIMS1 ICAL ID: 2
Date Analyzed: 02/23/05 Time: 1524

CONTINUING CALIBRATION VERIFICATION

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.00500	0.00482	96	mg/L	SW-846 7470A	AV

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.: 205022104
Lab Sample ID: ICB
ICAL ID: 3
Lab Sample DESC: ICB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 0933

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0030	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1023

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00058	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: 224587

ICAL ID: 3

Lab Sample DESC: MB224587

Preparation Blank Matrix: (soil / water) Water

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1029

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.010	U	mg/L	0.0025	0.010	SW-846 6010B	P
Barium	0.0023	B	mg/L	0.00030	0.20	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.0050	U	mg/L	0.00050	0.0050	SW-846 6010B	P
Lead	0.0030	U	mg/L	0.0015	0.0030	SW-846 6010B	P
Selenium	0.0050	U	mg/L	0.0031	0.0050	SW-846 6010B	P
Silver	0.0050	U	mg/L	0.00060	0.0050	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1146

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.0026	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0016	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205022104
Lab Sample ID: CCB
ICAL ID: 3
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 1213

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0018	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1352

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.0017	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1518

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00073	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1649

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00077	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1814

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00045	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 1940

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0040	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00079	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 205022104
Lab Sample ID: CCB
ICAL ID: 3
Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]
Preparation Blank Matrix: (soil / water)
Instrument ID: ICP5
Date Analyzed: 02/22/05 Time: 2106

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00081	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 3

Lab Sample DESC: CCB FOR HBN 287826 [ICP/2789]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/22/05 Time: 2126

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.0025	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00067	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: ICB

ICAL ID: 4

Lab Sample DESC: ICB FOR HBN 287883 [ICP/2790]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/23/05 Time: 0904

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00045	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 287883 [ICP/2790]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/23/05 Time: 0950

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.0038	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: 224557

ICAL ID: 4

Lab Sample DESC: MB224557

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: ICP5

Date Analyzed: 02/23/05 Time: 0957

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	1.60	U	mg/kg	0.26	1.60	SW-846 6010B	P
Barium	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Cadmium	0.20	U	mg/kg	0.0040	0.20	SW-846 6010B	P
Chromium	0.40	U	mg/kg	0.018	0.40	SW-846 6010B	P
Lead	0.60	U	mg/kg	0.074	0.60	SW-846 6010B	P
Selenium	1.60	U	mg/kg	0.099	1.60	SW-846 6010B	P
Silver	0.40	U	mg/kg	0.021	0.40	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 287883 [ICP/2790]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/23/05 Time: 1101

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.0046	B	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.00064	B	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 287883 [ICP/2790]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/24/05 Time: 0843

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 4

Lab Sample DESC: CCB FOR HBN 287883 [ICP/2790]

Preparation Blank Matrix: (soil / water)

Instrument ID: ICP5

Date Analyzed: 02/24/05 Time: 0904

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Arsenic	0.040	U	mg/L	0.0025	0.040	SW-846 6010B	P
Barium	0.010	U	mg/L	0.00030	0.010	SW-846 6010B	P
Cadmium	0.0050	U	mg/L	0.00010	0.0050	SW-846 6010B	P
Chromium	0.010	U	mg/L	0.00050	0.010	SW-846 6010B	P
Lead	0.015	U	mg/L	0.0015	0.015	SW-846 6010B	P
Selenium	0.040	U	mg/L	0.0031	0.040	SW-846 6010B	P
Silver	0.010	U	mg/L	0.00060	0.010	SW-846 6010B	P

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: ICB

ICAL ID: 1

Lab Sample DESC: ICB FOR HBN 287854 [HG/2251]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/22/05 Time: 1436

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287854 [HG/2251]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/22/05 Time: 1440

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: 224562

ICAL ID: 1

Lab Sample DESC: MB224562

Preparation Blank Matrix: (soil / water) Soil

Instrument ID: FIMS1

Date Analyzed: 02/22/05 Time: 1452

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.010	U	mg/kg	0.0020	0.010	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287854 [HG/2251]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/22/05 Time: 1501

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 1

Lab Sample DESC: CCB FOR HBN 287854 [HG/2251]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/22/05 Time: 1508

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.000080	0.00020	SW-846 7471A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: ICB

ICAL ID: 2

Lab Sample DESC: ICB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1447

INITIAL CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1451

CONTINUING CALIBRATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: 224592

ICAL ID: 2

Lab Sample DESC: MB224592

Preparation Blank Matrix: (soil / water) Water

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1452

PREPARATION BLANK

Analyte	Conc.	C	Units	MDL	PQL	Method	Type
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1511

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

BLANKS

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 205022104

Lab Sample ID: CCB

ICAL ID: 2

Lab Sample DESC: CCB FOR HBN 287908 [HG/2253]

Preparation Blank Matrix: (soil / water)

Instrument ID: FIMS1

Date Analyzed: 02/23/05 Time: 1526

CONTINUING CALIBRATION BLANK

Analyte	*Conc.*	*C*	*Units*	*MDL*	*PQL*	*Method*	*Type*
Mercury	0.00020	U	mg/L	0.00008	0.00020	SW-846 7470A	AV

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

ICP ID Number: ICP5 ICS Source: 136-1-2 SPEX~1

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	208	215	108			
Antimony	0	1.00		1.03	103			
Arsenic	0	1.00		1.08	108			
Barium	0	0.50		0.51	102			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		1.10	110			
Cadmium	0	1.00		0.97	97			
Calcium	200	200	197	198	99			
Chromium	0	0.50		0.49	98			
Cobalt	0	0.50		0.48	96			
Copper	0	0.50		0.52	104			
Iron	80.0	80.0	79.0	80.5	101			
Lead	0	1.00		0.99	99			
Magnesium	200	200	199	194	97			
Manganese	0	0.50		0.51	102			
Molybdenum	0	1.00		1.02	102			
Nickel	0	1.00		0.97	97			
Selenium	0	1.00		1.05	105			
Silver	0	1.00		1.07	107			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.50		0.50	100			
Zinc	0	1.00		1.04	104			

ICP INTERFERENCE CHECK SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

ICP ID Number: ICP5 ICS Source: 136-1-2 SPEX~1

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	203	208	104			
Antimony	0	1.00		1.06	106			
Arsenic	0	1.00		1.09	109			
Barium	0	0.50		0.52	104			
Beryllium	0	0.50		0.52	104			
Boron	0	1.00		1.13	113			
Cadmium	0	1.00		1.01	101			
Calcium	200	200	197	200	100			
Chromium	0	0.50		0.50	100			
Cobalt	0	0.50		0.49	98			
Copper	0	0.50		0.54	108			
Iron	80.0	80.0	78.3	79.6	100			
Lead	0	1.00		1.01	101			
Magnesium	200	200	204	203	102			
Manganese	0	0.50		0.52	104			
Molybdenum	0	1.00		1.03	103			
Nickel	0	1.00		0.99	99			
Selenium	0	1.00		1.01	101			
Silver	0	1.00		1.10	110			
Thallium	0	1.00		1.06	106			
Vanadium	0	0.50		0.51	102			
Zinc	0	1.00		1.07	107			

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283GCP050217MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224560

Orig Lab Sample ID: 20502180504

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	20.6		0	U	20.0	103		mg/kg	SW-846 6010B	P
Barium	75	125	226		200		20.0	130	N	mg/kg	SW-846 6010B	P
Cadmium	75	125	21.4		0.23		20.0	106		mg/kg	SW-846 6010B	P
Chromium	75	125	21.1		0	U	20.0	105		mg/kg	SW-846 6010B	P
Lead	75	125	45.5		23.4		20.0	110		mg/kg	SW-846 6010B	P
Selenium	75	125	26.1		1.38	B	20.0	123		mg/kg	SW-846 6010B	P
Silver	75	125	19.5		0	U	20.0	98		mg/kg	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283GCP050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224561

Orig Lab Sample ID: 20502180504

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	19.7		0	U	20.0	99		mg/kg	SW-846 6010B	P
Barium	75	125	226		200		20.0	134	N	mg/kg	SW-846 6010B	P
Cadmium	75	125	21.5		0.23		20.0	106		mg/kg	SW-846 6010B	P
Chromium	75	125	21.2		0	U	20.0	106		mg/kg	SW-846 6010B	P
Lead	75	125	44.4		23.4		20.0	105		mg/kg	SW-846 6010B	P
Selenium	75	125	25.6		1.38	B	20.0	121		mg/kg	SW-846 6010B	P
Silver	75	125	15.2		0	U	20.0	76		mg/kg	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224590

Orig Lab Sample ID: 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.57		0.019		0.50	110		mg/L	SW-846 6010B	P
Barium	75	125	0.56		0.048	B	0.50	103		mg/L	SW-846 6010B	P
Cadmium	75	125	0.49		0	U	0.50	98		mg/L	SW-846 6010B	P
Chromium	75	125	0.52		0.0035	B	0.50	104		mg/L	SW-846 6010B	P
Lead	75	125	0.49		0	U	0.50	98		mg/L	SW-846 6010B	P
Selenium	75	125	0.30		0	U	0.50	60	N	mg/L	SW-846 6010B	P
Silver	75	125	0.51		0.00099	B	0.50	101		mg/L	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224591

Orig Lab Sample ID: 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.57		0.019		0.50	111		mg/L	SW-846 6010B	P
Barium	75	125	0.58		0.048	B	0.50	106		mg/L	SW-846 6010B	P
Cadmium	75	125	0.50		0	U	0.50	99		mg/L	SW-846 6010B	P
Chromium	75	125	0.54		0.0035	B	0.50	107		mg/L	SW-846 6010B	P
Lead	75	125	0.44		0	U	0.50	89		mg/L	SW-846 6010B	P
Selenium	75	125	0.32		0	U	0.50	65	N	mg/L	SW-846 6010B	P
Silver	75	125	0.50		0.00099	B	0.50	100		mg/L	SW-846 6010B	P

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283GCP050217MS

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224565

Orig Lab Sample ID: 20502180504

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.22		0.0028	B	0.25	87		mg/kg	SW-846 7471A	AV

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283GCP050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224566

Orig Lab Sample ID: 20502180504

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.21		0.0028	B	0.25	82		mg/kg	SW-846 7471A	AV

FORM V (PART 1) - IN

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224595

Orig Lab Sample ID: 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00422		0	U	0.00500	84		mg/L	SW-846 7470A	AV

SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217MSD

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224596

Orig Lab Sample ID: 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Mercury	75	125	0.00435		0	U	0.00500	87		mg/L	SW-846 7470A	AV

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283WC2W050217PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224721

Orig Lab Sample ID: 20502180605

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	0.55		0.019		0.50	106		mg/L	SW-846 6010B	P
Barium	75	125	0.55		0.048	B	0.50	100		mg/L	SW-846 6010B	P
Cadmium	75	125	0.48		0	U	0.50	97		mg/L	SW-846 6010B	P
Chromium	75	125	0.51		0.0035	B	0.50	101		mg/L	SW-846 6010B	P
Lead	75	125	0.48		0	U	0.50	97		mg/L	SW-846 6010B	P
Selenium	75	125	0.52		0	U	0.50	104		mg/L	SW-846 6010B	P
Silver	75	125	0.51		0.00099	B	0.50	102		mg/L	SW-846 6010B	P

POST DIGEST SPIKE SAMPLE RECOVERY

Lab Name: GCAL

Sample ID: 05283GCP050217PDS

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205022104

Level: (low / med)

Lab Sample ID: 224906

Orig Lab Sample ID: 20502180504

Analyte	LL	UL	Spiked Sample Result	C	Sample Result	C	Spike Added	% R	Q	Units	Method	Type
Arsenic	75	125	18.6		0	U	20.0	93		mg/kg	SW-846 6010B	P
Barium	75	125	216		200		20.0	81		mg/kg	SW-846 6010B	P
Cadmium	75	125	20.6		0.23		20.0	102		mg/kg	SW-846 6010B	P
Chromium	75	125	20.1		0	U	20.0	100		mg/kg	SW-846 6010B	P
Lead	75	125	42.7		23.4		20.0	96		mg/kg	SW-846 6010B	P
Selenium	75	125	24.2		1.38	B	20.0	114		mg/kg	SW-846 6010B	P
Silver	75	125	16.8		0	U	20.0	84		mg/kg	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283GCP050217DUP

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205022104

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224559

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Barium	0	20	200		208		4		mg/kg	SW-846 6010B	P
Cadmium	0	20	0.23		0.11	B	71	*	mg/kg	SW-846 6010B	P
Chromium	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P
Lead	0	20	23.4		24.2		3		mg/kg	SW-846 6010B	P
Selenium	0	20	1.38	B	1.43	B	4		mg/kg	SW-846 6010B	P
Silver	0	20	0	U	0	U	0		mg/kg	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC2W050217DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224589

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Arsenic	0	20	0.019		0.0069	B	93	*	mg/L	SW-846 6010B	P
Barium	0	20	0.048	B	0.046	B	4		mg/L	SW-846 6010B	P
Cadmium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Chromium	0	20	0.0035	B	0.0028	B	22	*	mg/L	SW-846 6010B	P
Lead	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Selenium	0	20	0	U	0	U	0		mg/L	SW-846 6010B	P
Silver	0	20	0.00099	B	0	U	200	*	mg/L	SW-846 6010B	P

DUPLICATES

Lab Name: GCAL

Sample ID: 05283GCP050217DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.: SDG No.: 205022104

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224564

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0.0028	B	0	U	200	*	mg/kg	SW-846 7471A	AV

DUPLICATES

Lab Name: GCAL

Sample ID: 05283WC2W050217DUP

Lab Code: LA024 Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

% Solids for Sample:

Level: (low / med)

% Solids for Duplicate:

Lab Sample ID: 224594

Analyte	LL	UL	Sample	C	Duplicate	C	RPD	Q	Units	Method	Type
Mercury	0	20	0	U	0	U	0		mg/L	SW-846 7470A	AV

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Sample ID: 05283GCP050217

Lab Code: LA024

SDG No.: 205022104

Matrix: (soil/water) Soil

Lab Sample ID: 224560 / 224561

Orig Lab Sample ID: 20502180504

Analyte	*LL - UL*	*Spiked Sample*	*C*	*Spiked Duplicate*	*C*	*RPD*	*Q*	*Units*	*Method*	*Type*
Arsenic	0 - 30	20.6		19.7		4.5		mg/L	SW-846 6010B	P
Barium	0 - 30	226		226		0.0		mg/L	SW-846 6010B	P
Cadmium	0 - 30	21.4		21.5		0.5		mg/L	SW-846 6010B	P
Chromium	0 - 30	21.1		21.2		0.5		mg/L	SW-846 6010B	P
Lead	0 - 30	45.5		44.4		2.4		mg/L	SW-846 6010B	P
Selenium	0 - 30	26.1		25.6		1.9		mg/L	SW-846 6010B	P
Silver	0 - 30	19.5		15.2		24.8		mg/L	SW-846 6010B	P

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Sample ID: 05283WC2W050217

Lab Code: LA024

SDG No.: 205022104

Matrix: (soil/water) Water

Lab Sample ID: 224590 / 224591

Orig Lab Sample ID: 20502180605

Analyte	*LL - UL*	*Spiked Sample*	*C*	*Spiked Duplicate*	*C*	*RPD*	*Q*	*Units*	*Method*	*Type*
Arsenic	0 - 20	0.57		0.57		0.0		mg/L	SW-846 6010B	P
Barium	0 - 20	0.56		0.58		3.5		mg/L	SW-846 6010B	P
Cadmium	0 - 20	0.49		0.5		2.0		mg/L	SW-846 6010B	P
Chromium	0 - 20	0.52		0.54		3.8		mg/L	SW-846 6010B	P
Lead	0 - 20	0.49		0.44		10.8		mg/L	SW-846 6010B	P
Selenium	0 - 20	0.3		0.32		6.5		mg/L	SW-846 6010B	P
Silver	0 - 20	0.51		0.5		2.0		mg/L	SW-846 6010B	P

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Sample ID: 05283GCP050217

Lab Code: LA024

SDG No.: 205022104

Matrix: (soil/water) Soil

Lab Sample ID: 224565 / 224566

Orig Lab Sample ID: 20502180504

Analyte	*LL - UL*	*Spiked Sample*	*C*	*Spiked Duplicate*	*C*	*RPD*	*Q*	*Units*	*Method*	*Type*
Mercury	0 - 30	0.22		0.21		4.7		mg/kg	SW-846 7471A	AV

MS/MSD DUPLICATE SUMMARY

Lab Name: GCAL

Sample ID: 05283WC2W050217

Lab Code: LA024

SDG No.: 205022104

Matrix: (soil/water) Water

Lab Sample ID: 224595 / 224596

Orig Lab Sample ID: 20502180605

Analyte	*LL - UL*	*Spiked Sample*	*C*	*Spiked Duplicate*	*C*	*RPD*	*Q*	*Units*	*Method*	*Type*
Mercury	0 - 15	0.00435		0.005		13.9		mg/L	SW-846 7470A	AV

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224558

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205022104

Lab Sample ID: 224558

LCS Source: 334-21-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	20.0	21.0	105	80	120	mg/kg	SW-846 6010B	P
Barium	20.0	20.7	104	80	120	mg/kg	SW-846 6010B	P
Cadmium	20.0	20.7	103	80	120	mg/kg	SW-846 6010B	P
Chromium	20.0	20.9	105	80	120	mg/kg	SW-846 6010B	P
Lead	20.0	20.7	103	80	120	mg/kg	SW-846 6010B	P
Selenium	20.0	20.0	100	80	120	mg/kg	SW-846 6010B	P
Silver	20.0	20.6	103	80	125	mg/kg	SW-846 6010B	P

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224588

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205022104

Lab Sample ID: 224588

LCS Source: 334-21-6 INORGANIC VENTURES

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Arsenic	0.50	0.55	110	80	120	mg/L	SW-846 6010B	P
Barium	0.50	0.53	105	80	120	mg/L	SW-846 6010B	P
Cadmium	0.50	0.52	105	80	120	mg/L	SW-846 6010B	P
Chromium	0.50	0.52	105	80	120	mg/L	SW-846 6010B	P
Lead	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Selenium	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P
Silver	0.50	0.53	106	80	120	mg/L	SW-846 6010B	P

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224563

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205022104

Lab Sample ID: 224563

LCS Source: 136-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.25	0.22	90	80	120	mg/kg	SW-846 7471A	AV

FORM VII - IN

LABORATORY CONTROL SAMPLE

Lab Name: GCAL

Sample ID: LCS224593

Lab Code: LA024

Case No.:

Contract:

Matrix: (soil / water) Water

SAS No.:

SDG No.: 205022104

Lab Sample ID: 224593

LCS Source: 136-1-3 EXAXOL

Analyte	True	Found	% R	LL	UL	Units	Method	Type
Mercury	0.00500	0.00475	95	80	120	mg/L	SW-846 7470A	AV

FORM VII - IN

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 05283WC2W050217SD

Lab Code: LA024 Case No.

Contract:

Matrix: (soil / water) Water

SAS No.: SDG No.: 205022104

Level: (low / med)

Org Lab Sample ID: 20502180605

Lab Sample ID: 224720

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			0.019	B	0.079	B	315.8		mg/L	SW-846 6010B	P
Barium	0	10	0.048		0.053		10.4	E	mg/L	SW-846 6010B	P
Cadmium			0	U	0	U			mg/L	SW-846 6010B	P
Chromium			0.0035	B	0	U	100.0		mg/L	SW-846 6010B	P
Lead			0	U	0	U			mg/L	SW-846 6010B	P
Selenium			0	U	0	U			mg/L	SW-846 6010B	P
Silver			0.00099	B	0	U	100.0		mg/L	SW-846 6010B	P

SERIAL DILUTIONS

Lab Name: GCAL

Sample ID: 05283GCP050217SD

Lab Code: LA024

Case No.

Contract:

Matrix: (soil / water) Soil

SAS No.:

SDG No.: 205022104

Level: (low / med)

Org Lab Sample ID: 20502180504

Lab Sample ID: 224907

Analyte	LL	UL	Initial Sample Result	C	Serial Dilution Result	C	% Diff.	Q	Units	Method	Type
Arsenic			0	U	0	U			mg/kg	SW-846 6010B	P
Barium	0	10	200		195		2.5		mg/kg	SW-846 6010B	P
Cadmium			0.23		0.21	B	8.7		mg/kg	SW-846 6010B	P
Chromium			0	U	0	U			mg/kg	SW-846 6010B	P
Lead	0	10	23.4		23.6		0.9		mg/kg	SW-846 6010B	P
Selenium			1.38	B	1.14	B	17.4		mg/kg	SW-846 6010B	P
Silver			0	U	0	U			mg/kg	SW-846 6010B	P

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Method: 3050B Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283GCP050217	02/21/05	1.25	g	50	mL
05283GCP050217DUP	02/21/05	1.25	g	50	mL
05283GCP050217MS	02/21/05	1.25	g	50	mL
05283GCP050217MSD	02/21/05	1.25	g	50	mL
LCS224558	02/21/05	1.25	g	50	mL
MB224557	02/21/05	1.25	g	50	mL

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Method: 3010A Method Type: P

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283LOP050217	02/20/05			50	mL
05283WC2W050217DUP	02/20/05			50	mL
05283WC2W050217MS	02/20/05			50	mL
05283WC2W050217MSD	02/20/05			50	mL
LCS224588	02/20/05			50	mL
MB224587	02/20/05			50	mL

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Method: SW-846 7471A Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283GCP050217	02/20/05	0.6	g	30	mL
05283GCP050217DUP	02/20/05	0.6	g	30	mL
05283GCP050217MS	02/20/05	0.6	g	30	mL
05283GCP050217MSD	02/20/05	0.6	g	30	mL
LCS224563	02/20/05	0.6	g	30	mL
MB224562	02/20/05	0.6	g	30	mL

PREPARATION LOG

Lab Name: GCAL Sample ID:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104

Method: SW-846 7470A Method Type: AV

EPA Sample No.	Preparation Date	Weight	Units	Volume	Units
05283LOP050217	02/20/05			20	mL
05283WC2W050217DUP	02/20/05			20	mL
05283WC2W050217MS	02/20/05			20	mL
05283WC2W050217MSD	02/20/05			20	mL
LCS224593	02/20/05			20	mL
MB224592	02/20/05			20	mL

FORM XIII - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/22/05

Instrument ID Number: ICP5 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	Zr
				Analyte Symbols																														
ICV	*	1	0926			X	X			X		X				X								X		X								
ICB	*	1	0933			X	X			X		X				X								X		X								
CRDL	*	1	0945			X	X			X		X				X								X		X								
ICSA	*	1	1003			X	X			X		X				X								X		X								
ICSAB	*	1	1009			X	X			X		X				X								X		X								
CCV	*	1	1016			X	X			X		X				X								X		X								
CCB	*	1	1023			X	X			X		X				X								X		X								
MB224587	*	1	1029			X	X			X		X				X								X		X								
LCS224588	*	1	1036			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1043																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1057			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1104			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1112			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	5	1119			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1132																															
CCV	*	1	1139			X	X			X		X				X								X		X								
CCB	*	1	1146			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1153			X	X			X		X				X								X		X								
05283LOP050217	*	1	1200			X	X			X		X				X								X		X								
CCV	*	1	1206			X	X			X		X				X								X		X								
CCB	*	1	1213			X	X			X		X				X								X		X								
CCV	*	1	1345			X	X			X		X				X								X		X								
CCB	*	1	1352			X	X			X		X				X								X		X								
CCV	*	1	1511			X	X			X		X				X								X		X								
CCB	*	1	1518			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1536																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1543																															

000184

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/22/05

Instrument ID Number: ICP5 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	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1550																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1558																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1605																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1612																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1619																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1627																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1634																														
CCV	*	1	1642			X	X			X		X				X								X		X							
CCB	*	1	1649			X	X			X		X				X								X		X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1655																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1702																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1709																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1717																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1724																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1731																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1738																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1745																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1753																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1800																														
CCV	*	1	1807			X	X			X		X				X								X		X							
CCB	*	1	1814			X	X			X		X				X								X		X							
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1821																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1828																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1835																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1842																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1850																														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1857																														

000185

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/22/05

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																														
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	Zr
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	1904																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1911																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1918																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1926																															
CCV	*	1	1933			X	X			X		X				X								X		X								
CCB	*	1	1940			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1947																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1954																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2001																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2008																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2015																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	2023																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2030																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2037																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2044																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		5	2052																															
CCV	*	1	2059			X	X			X		X				X								X		X								
CCB	*	1	2106			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		25	2113																															
CCV	*	1	2119			X	X			X		X				X								X		X								
CCB	*	1	2126			X	X			X		X				X								X		X								

000186

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/23/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/24/05

Instrument ID Number: ICP5 Method: SW-846 6010B Method Type: P

				Analyte Symbols																															
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	Zr
ICV	*	1	0857			X	X			X		X				X								X		X								
ICB	*	1	0904			X	X			X		X				X								X		X								
CRDL	*	1	0916			X	X			X		X				X								X		X								
ICSA	*	1	0931			X	X			X		X				X								X		X								
ICSAB	*	1	0937			X	X			X		X				X								X		X								
CCV	*	1	0943			X	X			X		X				X								X		X								
CCB	*	1	0950			X	X			X		X				X								X		X								
MB224557	*	1	0957			X	X			X		X				X								X		X								
LCS224558	*	1	1004			X	X			X		X				X								X		X								
05283GCP050217	*	1	1011			X	X			X		X				X								X		X								
05283GCP050217DUP	*	1	1018			X	X			X		X				X								X		X								
05283GCP050217MS	*	1	1025			X	X			X		X				X								X		X								
05283GCP050217MSD	*	1	1033			X	X			X		X				X								X		X								
05283GCP050217PDS	*	1	1040			X	X			X		X				X								X		X								
05283GCP050217SD	*	5	1047			X	X			X		X				X								X		X								
CCV	*	1	1054			X	X			X		X				X								X		X								
CCB	*	1	1101			X	X			X		X				X								X		X								
CCV	*	1	0836			X	X			X		X				X								X		X								
CCB	*	1	0843			X	X			X		X				X								X		X								
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	0850																															
CCV	*	1	0857			X	X			X		X				X								X		X								
CCB	*	1	0904			X	X			X		X				X								X		X								

0001187

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/22/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/22/05

Instrument ID Number: FIMS1 Method: SW-846 7471A Method Type: AV

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	Zr
				Analyte Symbols																														
ICV	*	1	1435																	X														
ICB	*	1	1436																	X														
CCV	*	1	1438																	X														
CCB	*	1	1440																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1441																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1443																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1445																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1447																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1448																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1450																															
MB224562	*	1	1452																	X														
LCS224563	*	1	1454																	X														
05283GCP050217	*	1	1455																	X														
05283GCP050217DUP	*	1	1457																	X														
CCV	*	1	1459																	X														
CCB	*	1	1501																	X														
05283GCP050217MS	*	1	1502																	X														
05283GCP050217MSD	*	1	1504																	X														
CCV	*	1	1506																	X														
CCB	*	1	1508																	X														

000188

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: GCAL Contract: Start Date: 02/23/05

Lab Code: LA024 Case No.: SAS No.: SDG No.: 205022104 End Date: 02/23/05

Instrument ID Number: FIMS1 Method: SW-846 7470A Method Type: AV

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	Zr
ICV	*	1	1446																	X														
ICB	*	1	1447																	X														
CCV	*	1	1449																	X														
CCB	*	1	1451																	X														
MB224592	*	1	1452																	X														
LCS224593	*	1	1454																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1456																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1458																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1459																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ	*	1	1501																	X														
05283LOP050217	*	1	1503																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1504																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1506																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1508																															
CCV	*	1	1510																	X														
CCB	*	1	1511																	X														
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1513																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1515																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1517																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1519																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1520																															
ZZZZZZZZZZZZZZZZZZZZZZZZZZ		1	1522																															
CCV	*	1	1524																	X														
CCB	*	1	1526																	X														

000189

FORM XIV - IN

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180504	05283GCP050217	Solid	02/17/2005 10:00	02/18/2005 09:20

1010 Flashpoint

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/24/2005 13:45	LMC2	287971

CAS#	Parameter	Result	RDL	MDL	Units
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180504	05283GCP050217	Solid	02/17/2005 10:00	02/18/2005 09:20

9056 Total Organic Halides

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/18/2005 13:48	287736	5050	1	02/22/2005 00:18	AEL	287737

CAS#	Parameter	Result	RDL	MDL	Units
59473-04-0	Total Organic Halides	480	40.0	0.40	mg/kg

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180505	05283LOP050217	Water	02/17/2005 10:15	02/18/2005 09:20

1010 Flashpoint

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/23/2005 10:30	LMC2	287929

CAS#	Parameter	Result	RDL	MDL	Units
000000-01-3	FlashPoint	>212	50	50	Deg F

RESULTS REPORTED ON A WET WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20502180505	05283LOP050217	Water	02/17/2005 10:15	02/18/2005 09:20

9020B Total Organic Halides

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			4	02/22/2005 08:25	HLO	287607

CAS#	Parameter	Result	RDL	MDL	Units
59473-04-0	Total Organic Halides	40.0U	40.0	9.4	ug/L

RESULTS REPORTED ON A WET WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 287929	**Client ID**	V-621J WATER (INLET)		224045DUP		
Prep Batch N/A	**GCAL ID**	20502171401		225151		
	Sample Type	SAMPLE		DUP		
	Analytical Date	02/23/2005 10:30		02/23/2005 10:30		
	Matrix	Water		Water		
1010 Flashpoint		**Units**	Deg F	**Result**	**RPD**	**RPD Limit**
		Result	**RDL**			
000000-01-3 FlashPoint		158	50	150	5.2	25

0001194

General Chemistry Quality Control Summary

Analytical Batch 287735	**Client ID**	MB287734		LCS287734
Prep Batch 287734	**GCAL ID**	224319		224320
Prep Method 5050	**Sample Type**	Method Blank		LCS
	Prep Date	02/18/2005 13:43		02/18/2005 13:43
	Analytical Date	02/21/2005 18:07		02/21/2005 18:28
	Matrix	Solid		Solid

9056 Total Halides - Solid		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	3.00B	10.0	500	511	102	80 - 120
16984-48-8	Fluoride	10.0U	10.0	500	514	103	80 - 120
24959-67-9	Bromide	20.0U	20.0	1000	1040	104	80 - 120
WET-036	Total Halides	40.0U	40	2000	2070	103	80 - 120

Analytical Batch 287735	**Client ID**	NC48-SL-NOM-WP01-A-NA		224008MS
Prep Batch 287734	**GCAL ID**	20502170601		224322
Prep Method 5050	**Sample Type**	SAMPLE		MS
	Prep Date	02/18/2005 13:43		02/18/2005 13:43
	Analytical Date	02/21/2005 18:48		02/21/2005 19:29
	Matrix	Solid		Solid

9056 Total Halides - Solid		**Units**	mg/kg	**Spike**	**Result**		**Control**
		Result	**RDL**	**Added**		**% R**	**Limits % R**
16887-00-6	Chloride	306	10.0	500	864	112	75 - 125
16984-48-8	Fluoride	15.0	10.0	500	549	107	75 - 125
24959-67-9	Bromide	0.00	20.0	1000	1060	106	75 - 125
WET-036	Total Halides	321	40	2000	2480	108	75 - 125

Analytical Batch 287735	**Client ID**	NC48-SL-NOM-WP01-A-NA	224008DUP
Prep Batch 287734	**GCAL ID**	20502170601	224321
Prep Method 5050	**Sample Type**	SAMPLE	DUP
	Prep Date	02/18/2005 13:43	02/18/2005 13:43
	Analytical Date	02/21/2005 18:48	02/21/2005 19:09
	Matrix	Solid	Solid

9056 Total Halides - Solid		**Units**	mg/kg	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
16887-00-6	Chloride	306	10.0	304	0.66	25
16984-48-8	Fluoride	15.0	10.0	15.0	0	25
24959-67-9	Bromide	0.00	20.0	0.00	0	25
WET-036	Total Halides	321	40	319	0.63	25

000195

General Chemistry Quality Control Summary

Analytical Batch 287737	**Client ID**	NC48-SL-NOM-WP01-A-NA		224008DUP		
Prep Batch 287736	**GCAL ID**	20502170601		224326		
Prep Method 5050	**Sample Type**	SAMPLE		DUP		
	Prep Date	02/18/2005 13:48		02/18/2005 13:48		
	Analytical Date	02/21/2005 23:16		02/21/2005 23:37		
	Matrix	Solid		Solid		
9056 Total Organic Halides		**Units**	mg/kg	**Result**		**RPD**
		Result	**RDL**		**RPD**	**Limit**
59473-04-0 Total Organic Halides		242	40.0	240	0.83	25

000196

General Chemistry Quality Control Summary

Analytical Batch 287607	Client ID	MB287607			LCS287607		
Prep Batch N/A	GCAL ID	223663			223664		
	Sample Type	Method Blank			LCS		
	Analytical Date	02/15/2005 09:51			02/15/2005 09:51		
	Matrix	Water			Water		
9020B Total Organic Halides		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
59473-04-0 Total Organic Halides		10.0U	10.0	53.9	54.3	101	89.5 -110.5

Analytical Batch 287607	Client ID	LAG S-3			222534MS		
Prep Batch N/A	GCAL ID	20502090203			223666		
	Sample Type	SAMPLE			MS		
	Analytical Date	02/15/2005 09:51			02/15/2005 09:51		
	Matrix	Water			Water		
9020B Total Organic Halides		Units Result	ug/L RDL	Spike Added	Result	% R	Control Limits % R
59473-04-0 Total Organic Halides		257	100	500	760	101	75 - 125

Analytical Batch 287607	Client ID	LAG S-3		222534DUP		
Prep Batch N/A	GCAL ID	20502090203		223665		
	Sample Type	SAMPLE		DUP		
	Analytical Date	02/15/2005 09:51		02/15/2005 09:51		
	Matrix	Water		Water		
9020B Total Organic Halides		Units Result	ug/L RDL	Result	RPD	RPD Limit
59473-04-0 Total Organic Halides		257	100	233	9.8	25

000197

FLASHPOINT
METHOD SW-846 1010

Analyst: LMC2
Date: 2/24/05
Time: 1345

HBN: 287971/287973

Room Temp: 68.3
Thermometer ID: E 8

Sample ID	Preliminary (Duplicate) Flashpoint Temp °F	Flashpoint Temp °F	Log-In Matrix	True Matrix	Stir(Y/N)
QC o-Xylene Lot # 042288	N/A	90°	N/A	N/A	N/A
20502180504	>212	>212	Solid	Solid	N
20502180605	>212	>212	Water	Water	Y
20502180301	>212		Solid	Solid	N
20502181201	>212		Water	Water	Y

QC Control Limits= 98-102%
(90 ± 2°F)

Analyst Review: LMC 2/24/05
Secondary Review: CAE 2/24/05

000198

FLASHPOINT
METHOD SW-846 1010

Analyst: LMC2
Date: 2/23/05
Time: 16:30

HBN: 287929

Room Temp: 67.5 / 68.5
Thermometer ID: E8

Sample ID	Preliminary (Duplicate) Flashpoint Temp °F	Flashpoint Temp °F	Log-In Matrix	True Matrix	Stir(Y/N)
QC o-Xylene Lot # 042288	N/A	92	N/A	N/A	N/A
20502171401	~~2/23/05 LMC2 ~~ 150	158	water	water	Y
20502171501	>212		water	water	Y
20502180505	>212		water	water	Y

QC Control Limits= 98-102%
(90 ± 2°F)

Analyst Review: LMC2 2/23/05
Secondary Review: AG 2/23/05

000199

ANALYST: AEL
DATE: 02/21/05
HBN # 287735
287737

IC STANDARDS IDS

IC	300.0/9056/5050
Fluoride CCV Lot#	1411501
F CCV Expiration Date	5-06
Chloride CCV Lot #	1408364
Cl CCV Expiration Date	02-06
Bromide CCV Lot #	1412497
Br CCV Expiration Date	01-06
Sulfate CCV Lot #	1409466
SO4 CCV Expiration Date	03-06
Nitrite CCV Lot #	601-56-9
NO2 CCV Expiration Date	04-06-05
Nitrate CCV Lot #	568-100-3
NO3 CCV Expiration Date	11-24-05
Fluoride ICV/LCS Lot	4EM 133
F ICV/LCS Expiration Date	11-24-05
Chloride ICV/LCS Lot	4EM 133
Cl ICV/LCS Expiration Date	11-24-05
Bromide ICV/LCS Lot	4EM 133
Br ICV/LCS Expiration Date	11-24-05
Sulfate ICV/LCS Lot #	4EM 133
SO4 ICV/LCS Expiration Date	11-24-05
Nitrite ICV/LCS Lot #	601-42-6
NO2 ICV/LCS Expiration Date	03-25-05
Nitrate ICV/LCS Lot #	568-100-2
NO3 ICV/LCS Expiration Date	07-02-05
Eluent Lot #	601-60-7
IC Calibration Date	02-11-05
IC Calibration Expiration Date	04-06-05

REVIEWED BY: CAE 2/22/05

Sample Analysis Report

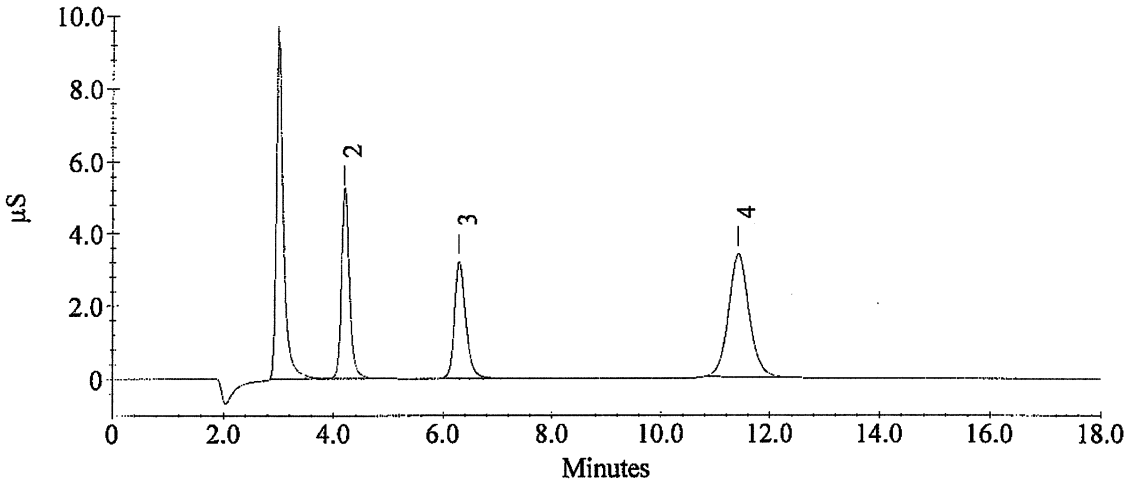
Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\022005\0221_A002.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 17:26:11
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 2

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.98	5.14 103	837263	89309
2	CHLORIDE,16887-00-6	4.18	5.09 102	518488	50924
3	BROMIDE,24959-67-9	6.28	10.36 104	458986	31927
4	SULFATE,14808-79-8	11.40	10.86 109	880481	33540

CCV



Sample Analysis Report

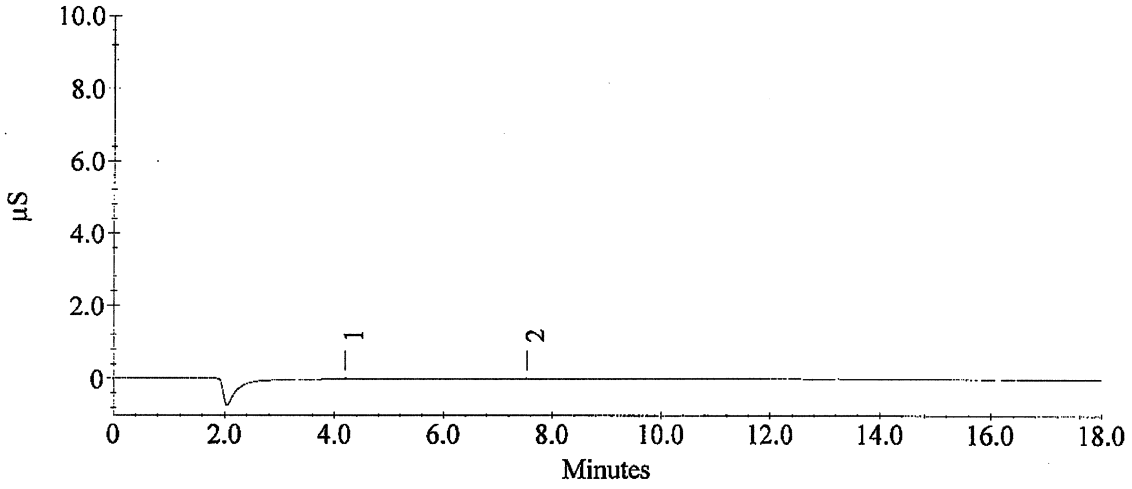
Sample Name : CCB
Data File Name : D:\PEAKNET\DATA\022005\0221_A003.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 17:46:49
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 3

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.20	0.03 ✓	896	71
2	NITRATE,14797-55-8	7.53	0.12 ✓✓	1515	119

CCB



Sample Analysis Report

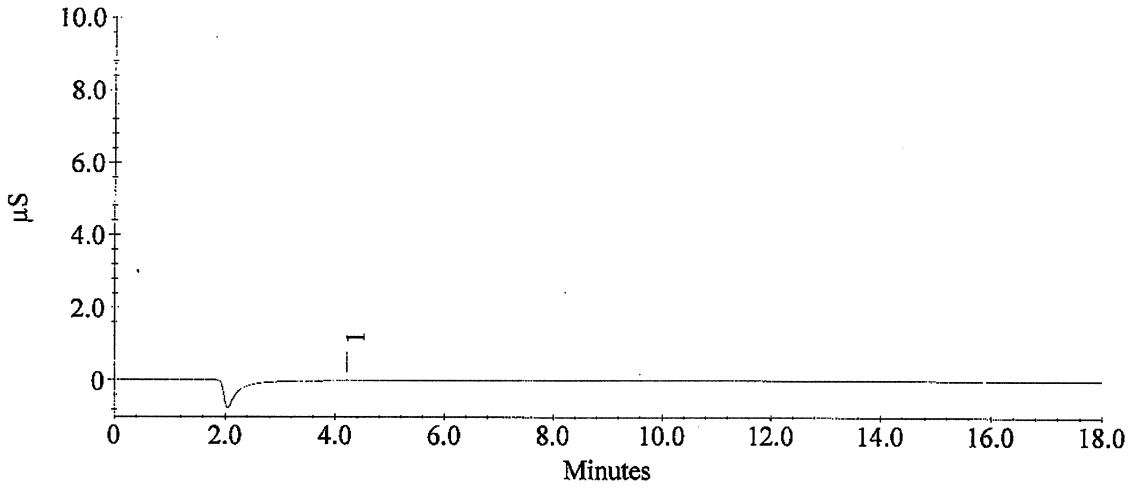
Sample Name : 224319
Data File Name : D:\PEAKNET\DATA\022005\0221_A004.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 18:07:27
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 4

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.22	0.03 ✓ ✓ ✓	1272	70

224319



Sample Analysis Report

Sample Name : 224320
Data File Name : D:\PEAKNET\DATA\022005\0221_A005.DXD

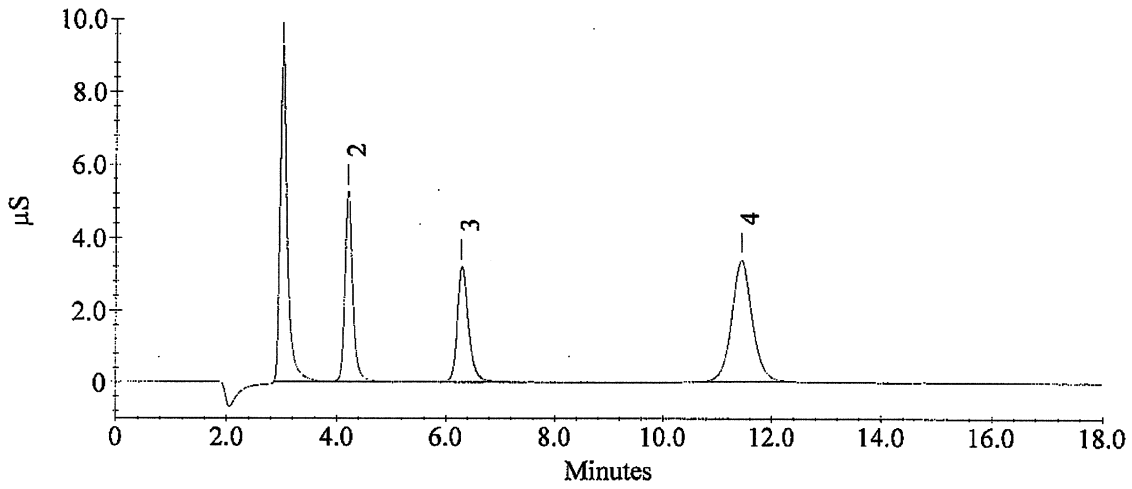
Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 18:28:03
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 5

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	5.14 103	836970	91019
2	CHLORIDE,16887-00-6	4.20	5.11 102	520298	51994
3	BROMIDE,24959-67-9	6.28	10.42 104	461967	31761
4	SULFATE,14808-79-8	11.43	10.91 109	884852	33458

224320

TX- 20.67



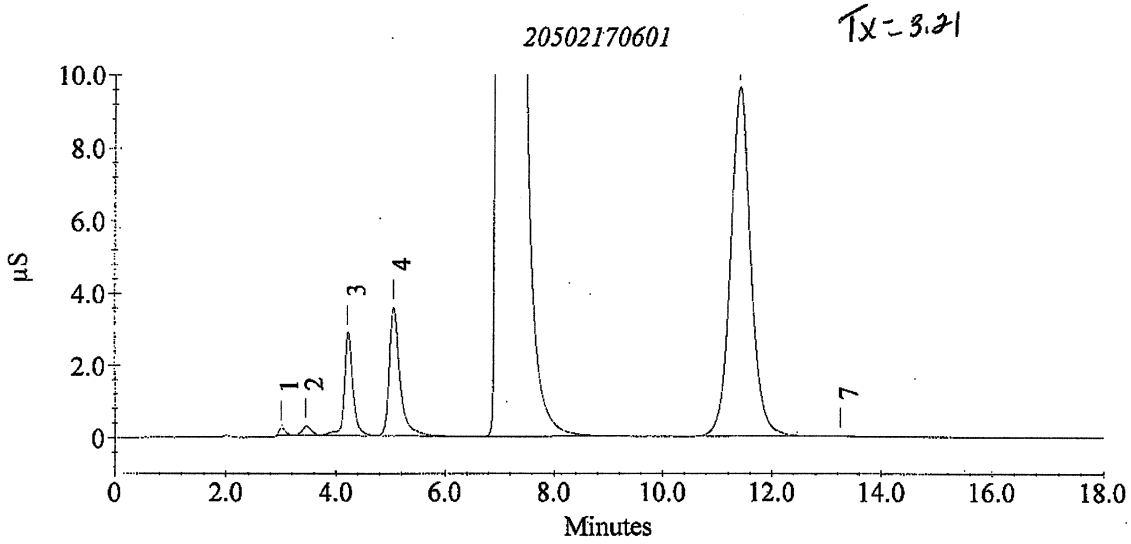
Sample Analysis Report

Sample Name : 20502170601
Data File Name : D:\PEAKNET\DATA\022005\0221_A006.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 18:48:40
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 6

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	0.15 ✓	16637	1936
2	Unknown 1	3.45	0.00	31351	2585
3	CHLORIDE,16887-00-6	4.22	3.06 ✓	310474	28532
4	NITRITE,14797-65-0	5.05	2.36 ✓	488817	35683
5	Unknown 2	7.03	0.00	23859017	1280570
6	SULFATE,14808-79-8	11.40	30.85	2475549	95956
7	Unknown 3	13.25	0.00	4050	176



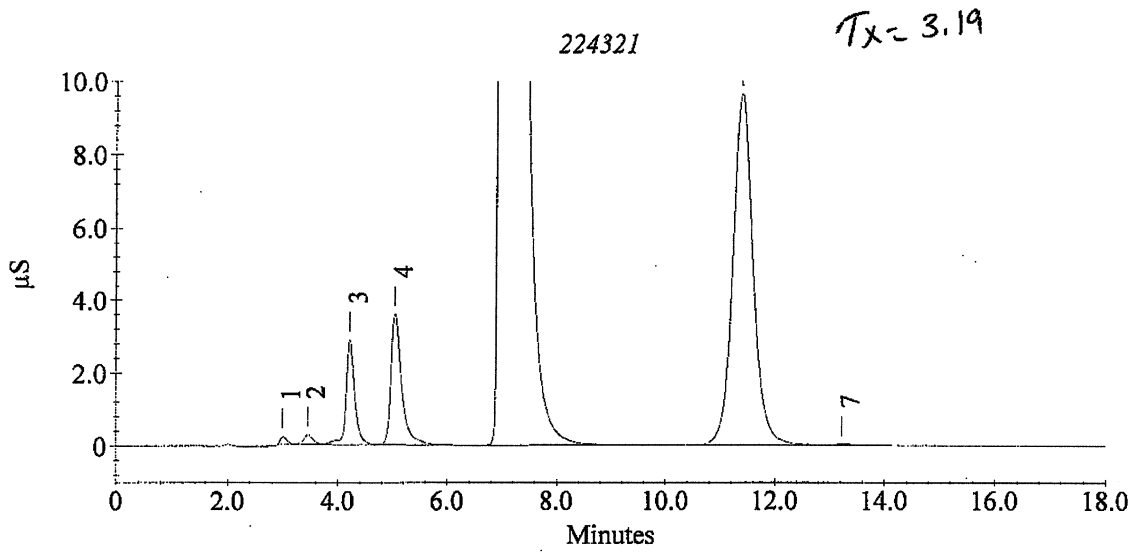
Sample Analysis Report

Sample Name : 224321
Data File Name : D:\PEAKNET\DATA\022005\0221_A007.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 19:09:18
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 7

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	0.15 ✓	16868	2024
2	Unknown 1	3.45	0.00	31891	2623
3	CHLORIDE,16887-00-6	4.22	3.04 ✓	308841	28668
4	NITRITE,14797-65-0	5.05	2.35 ✓	485084	35854
5	Unknown 2	7.03	0.00	23850137	1277489
6	SULFATE,14808-79-8	11.40	31.05	2490926	96300
7	Unknown 3	13.23	0.00	8165	276



Sample Analysis Report

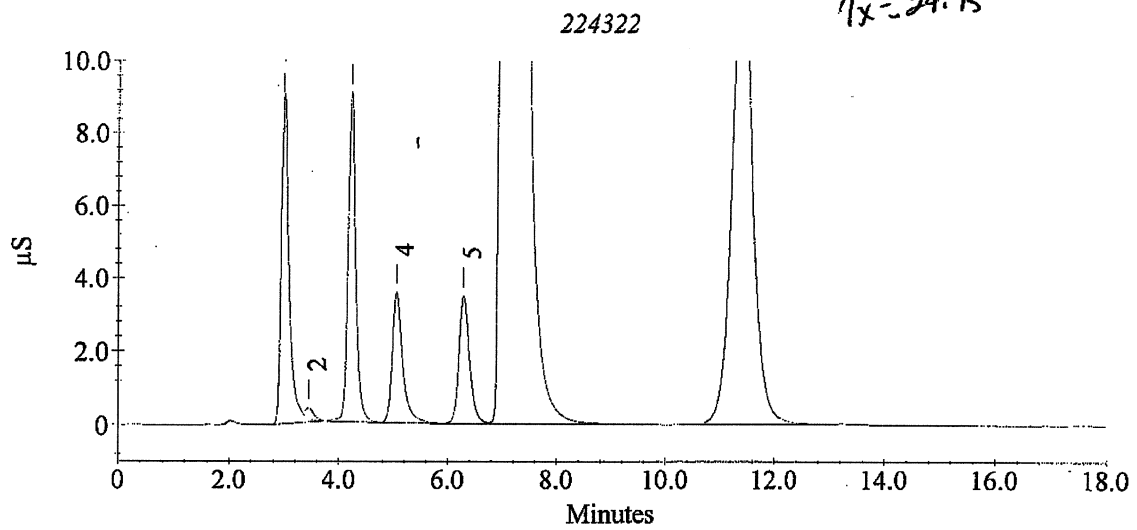
Sample Name : 224322
Data File Name : D:\PEAKNET\DATA\022005\0221_A008.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 19:29:57
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 8

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.98	5.49 107	894803	88692
2	Unknown 1	3.45	0.00	30516	2887
3	CHLORIDE,16887-00-6	4.22	8.64 112	880738	90426
4	NITRITE,14797-65-0	5.05	2.30	474855	35570
5	BROMIDE,24959-67-9	6.28	10.62 104	470885	34789
6	Unknown 2	7.03	0.00	23744756	1264781
7	SULFATE,14808-79-8	11.38	43.02	3445886	134952

Tx-24.75



Sample Analysis Report

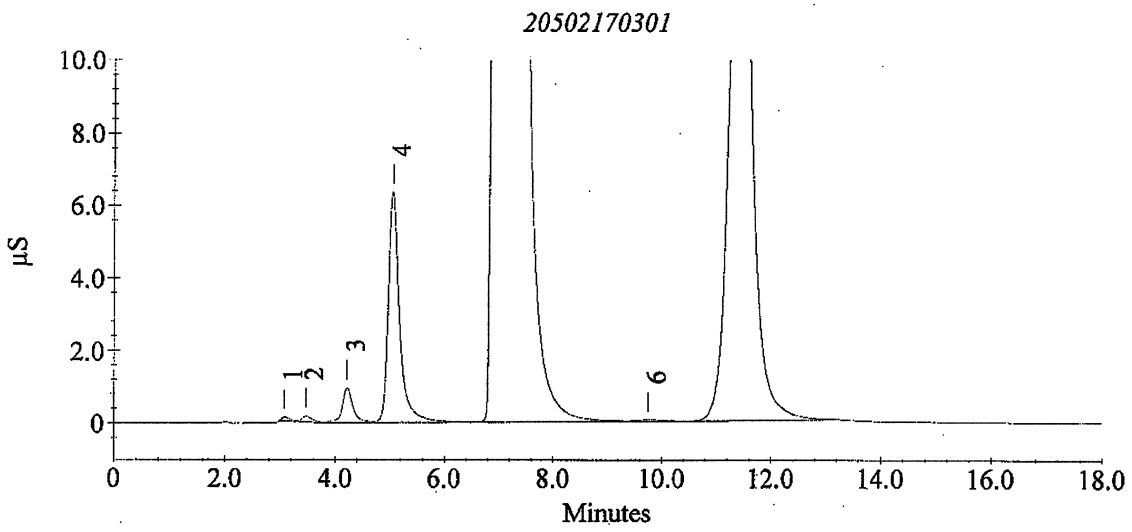
Sample Name : 20502170301
Data File Name : D:\PEAKNET\DATA\022005\0221_A009.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 19:50:34
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 9

Cl, Br only

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.08	0.12	11438	1124
2	Unknown 1	3.47	0.00	20636	1615
3	CHLORIDE,16887-00-6	4.22	1.28	128792	9655
4	NITRITE,14797-65-0	5.05	4.45	913668	63323
5	Unknown 2	6.95	0.00	50203244	2644245
6	Unknown 3	9.75	0.00	14918	454
7	SULFATE,14808-79-8	11.40	64.63	5169432	195416



Sample Analysis Report

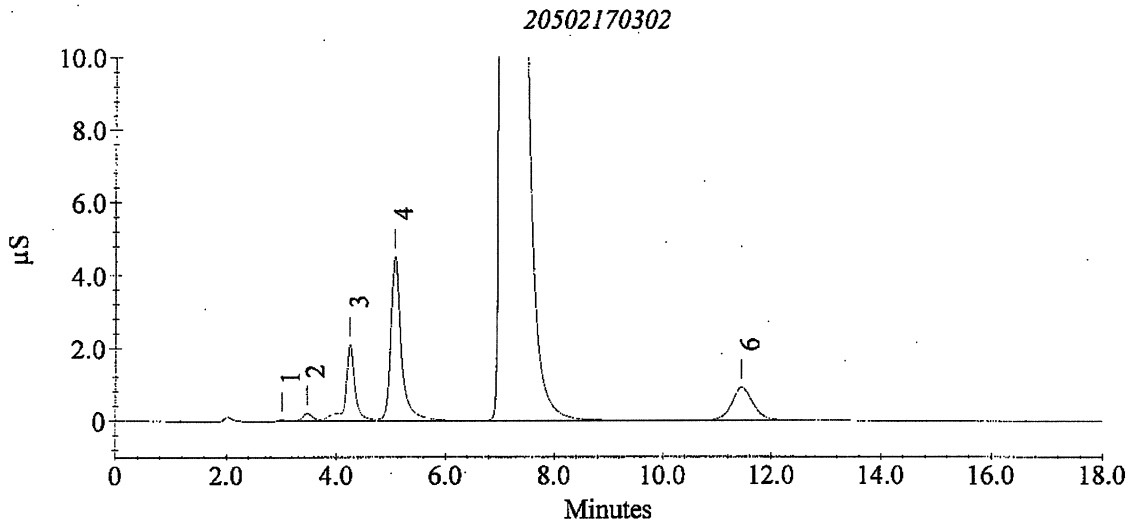
Sample Name : 20502170302
Data File Name : D:\PEAKNET\DATA\022005\0221_A010.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 20:11:12
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 10

Cl, Br only

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.02	0.06	2248	286
2	Unknown 1	3.47	0.00	25128	2038
3	CHLORIDE,16887-00-6	4.25	2.48 ✓	251755	21152
4	NITRITE,14797-65-0	5.07	2.99 ✓	616656	45217
5	Unknown 2	7.08	0.00	18835320	1018895
6	SULFATE,14808-79-8	11.45	2.90	246026	9134



Sample Analysis Report

Sample Name : 20502170303
Data File Name : D:\PEAKNET\DATA\022005\0221_A011.DXD

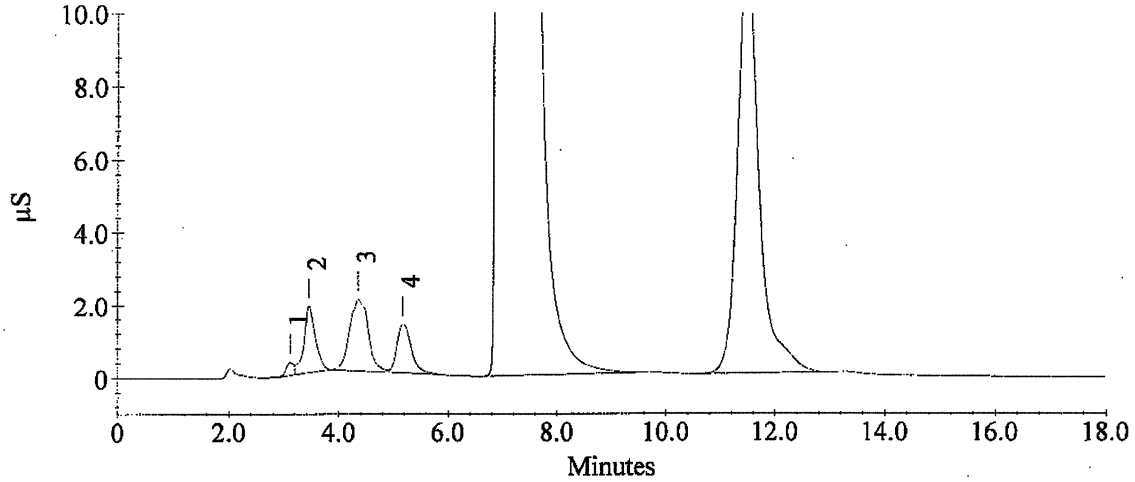
Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 20:31:49
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 11

Cl, Br only

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.12	0.25	33692	3514
2	Unknown 1	3.45	0.00	264987	18251
3	CHLORIDE,16887-00-6	4.35	4.52	460095	19663
4	NITRITE,14797-65-0	5.17	1.15	241699	13321
5	Unknown 2	7.07	0.00	117362979	6121584
6	SULFATE,14808-79-8	11.47	39.53	3167430	116446

20502170303



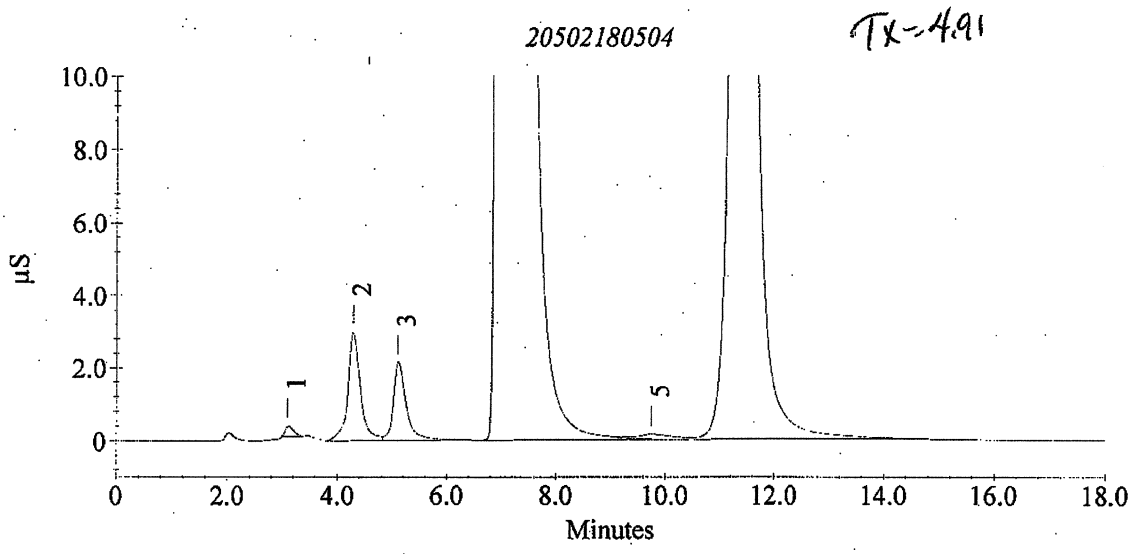
Sample Analysis Report

Sample Name : 20502180504
Data File Name : D:\PEAKNET\DATA\022005\0221_A012.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 20:52:27
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 12

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.10	0.22	28582	2690
2	CHLORIDE,16887-00-6	4.28	4.69	476960	29785
3	NITRITE,14797-65-0	5.10	1.71	355078	21206
4	Unknown 1	6.98	0.00	84503124	4581129
5	Unknown 2	9.75	0.00	55604	1346
6	SULFATE,14808-79-8	11.35	132.04	10547150	400436



Sample Analysis Report

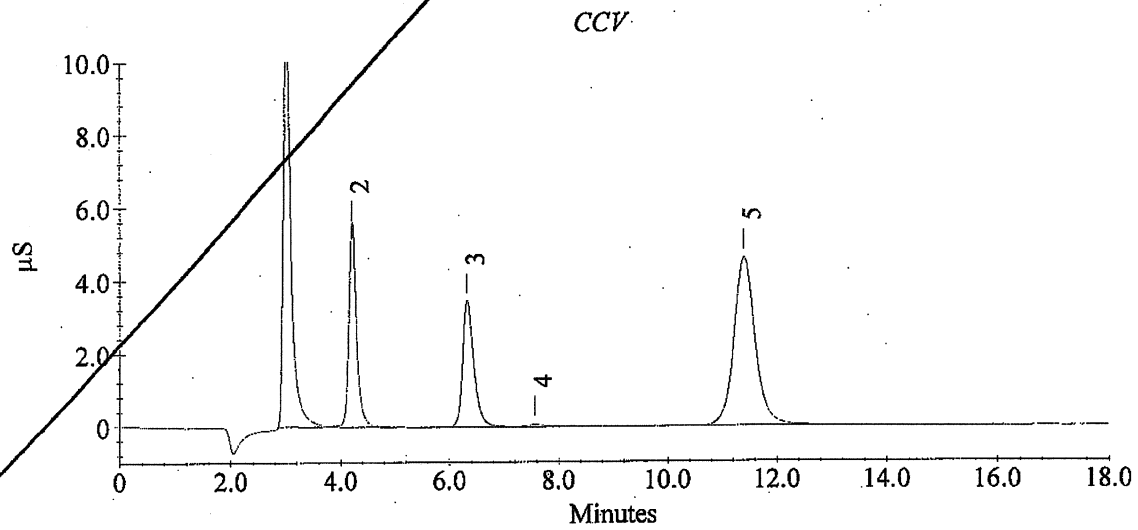
Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\022005\0221_A013.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 21:13:06
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 13

RR

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	6.72	1096874	114617
2	CHLORIDE,16887-00-6	4.20	5.49	559368	54269
3	BROMIDE,24959-67-9	6.32	11.34	502763	34458
4	NITRATE,14797-55-8	7.57	0.16	12064	715
5	SULFATE,14808-79-8	11.38	15.44	1245762	46054



Sample Analysis Report

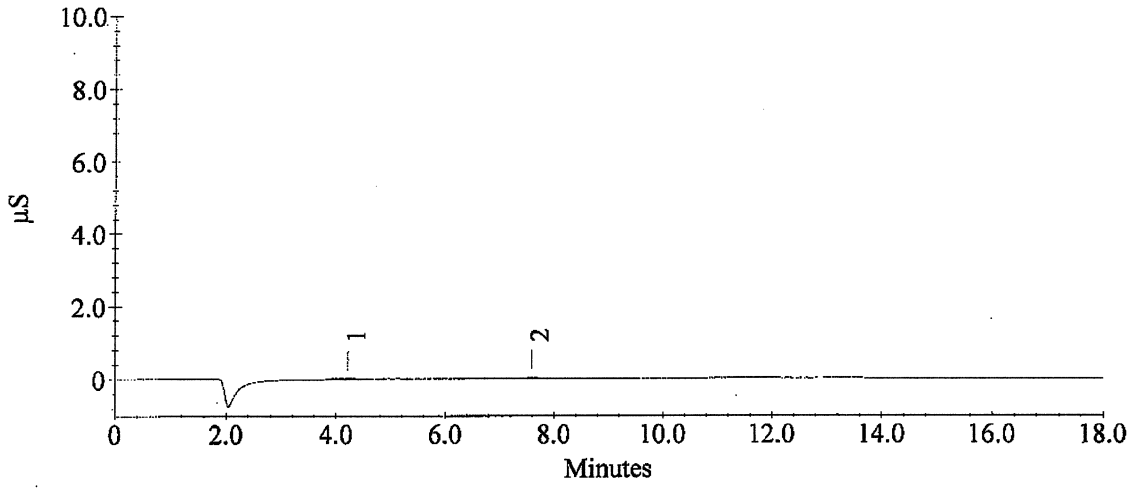
Sample Name : CCB
Data File Name : D:\PEAKNET\DATA\022005\0221_A014.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 21:33:43
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 14

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.22	0.03	1513	65
2	NITRATE,14797-55-8	7.58	0.14	4487	272

CCB



Sample Analysis Report

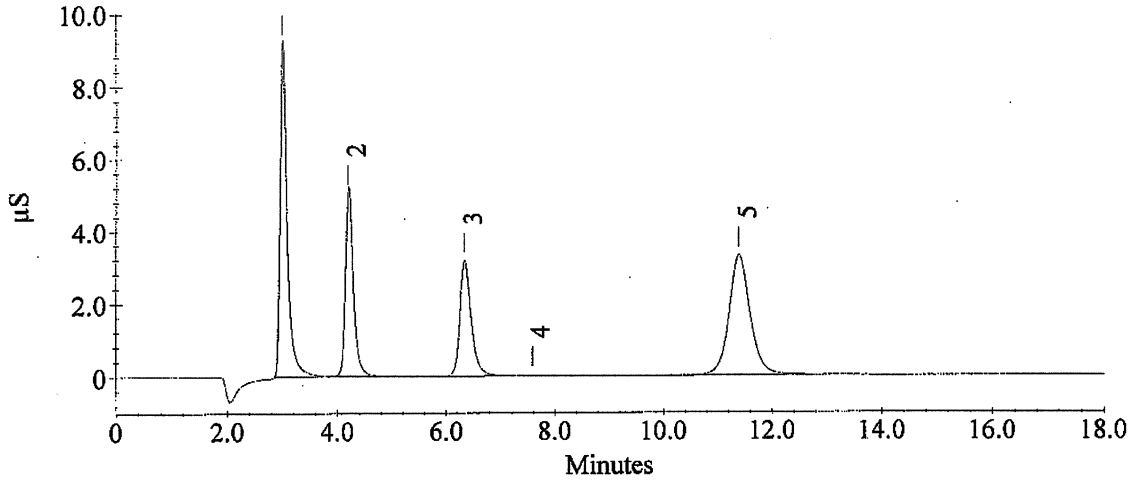
Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\022005\0221_A015.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 21:54:20
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 15

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	5.15 10^{3}	837713	91883
2	CHLORIDE,16887-00-6	4.20	5.12 10^{3}	521326	50409
3	BROMIDE,24959-67-9	6.33	10.43 10^{4}	462167	31555
4	NITRATE,14797-55-8	7.58	0.13	3145	208
5	SULFATE,14808-79-8	11.38	10.87 10^{4}	881653	32741

CCV



Sample Analysis Report

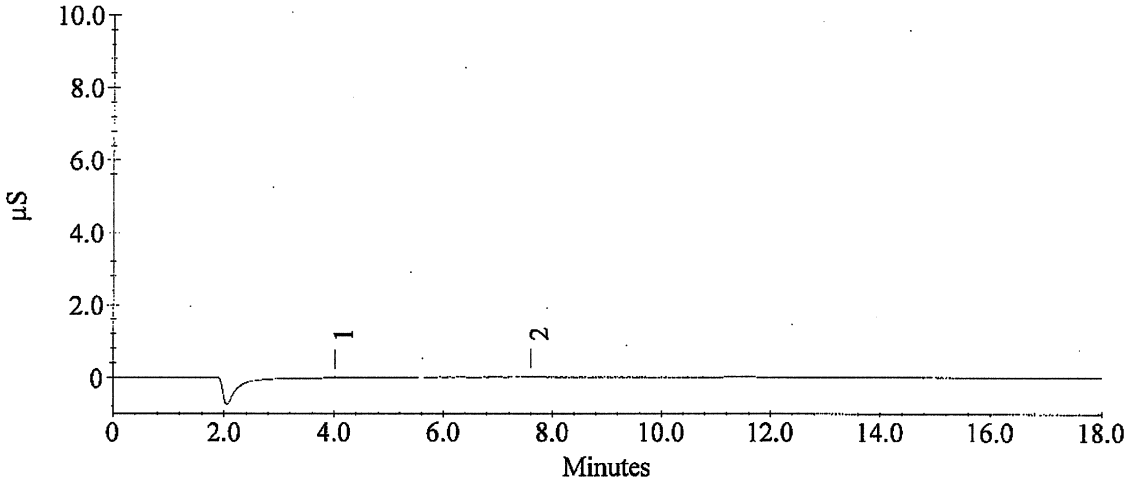
Sample Name : CCB
Data File Name : D:\PEAKNET\DATA\022005\0221_A016.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 22:14:58
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 16

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	Unknown 1	4.02	0.00	1363	65
2	NITRATE,14797-55-8	7.60	0.13	3746	214

CCB



Sample Analysis Report

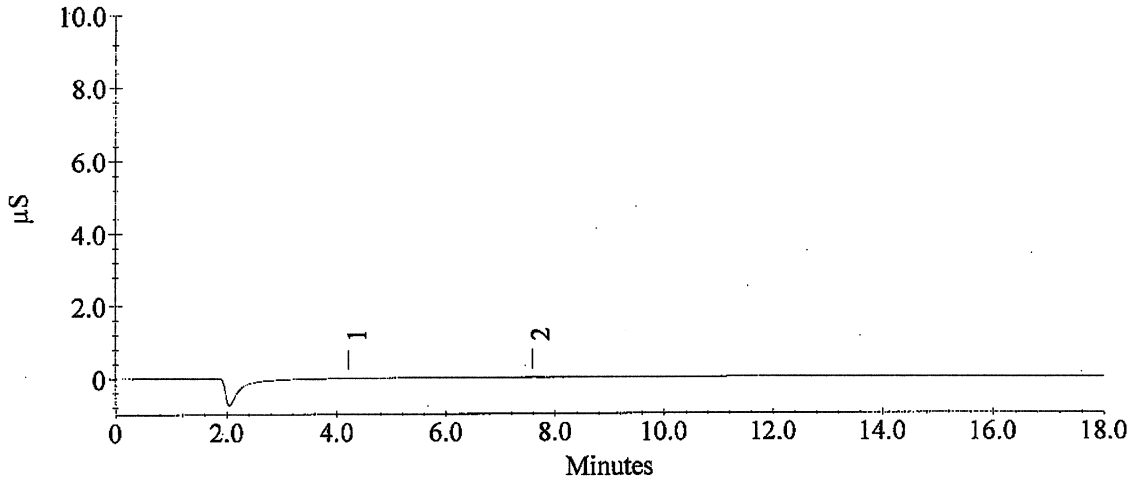
Sample Name : 224324
Data File Name : D:\PEAKNET\DATA\022005\0221_A017.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 22:35:39
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 17

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.22	0.03	1106	59
2	NITRATE,14797-55-8	7.58	0.13	1913	127

224324



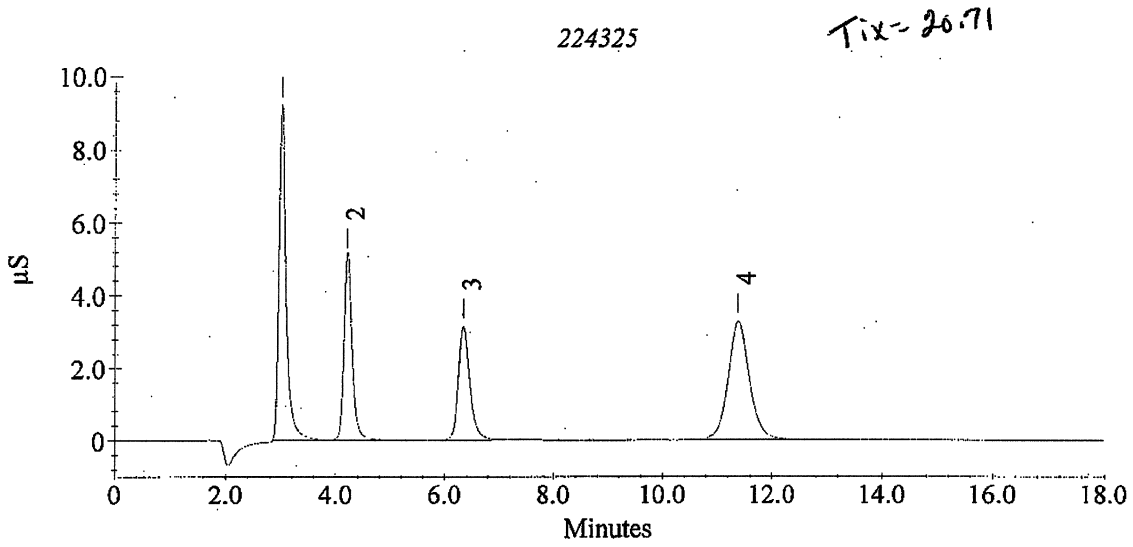
Sample Analysis Report

Sample Name : 224325
Data File Name : D:\PEAKNET\DATA\022005\0221_A018.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 22:56:19
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 18

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	5.15 103	837750	92049
2	CHLORIDE,16887-00-6	4.20	5.12 103	521212	50690
3	BROMIDE,24959-67-9	6.33	10.44 104	462873	31296
4	SULFATE,14808-79-8	11.37	10.87	881755	32751



Sample Analysis Report

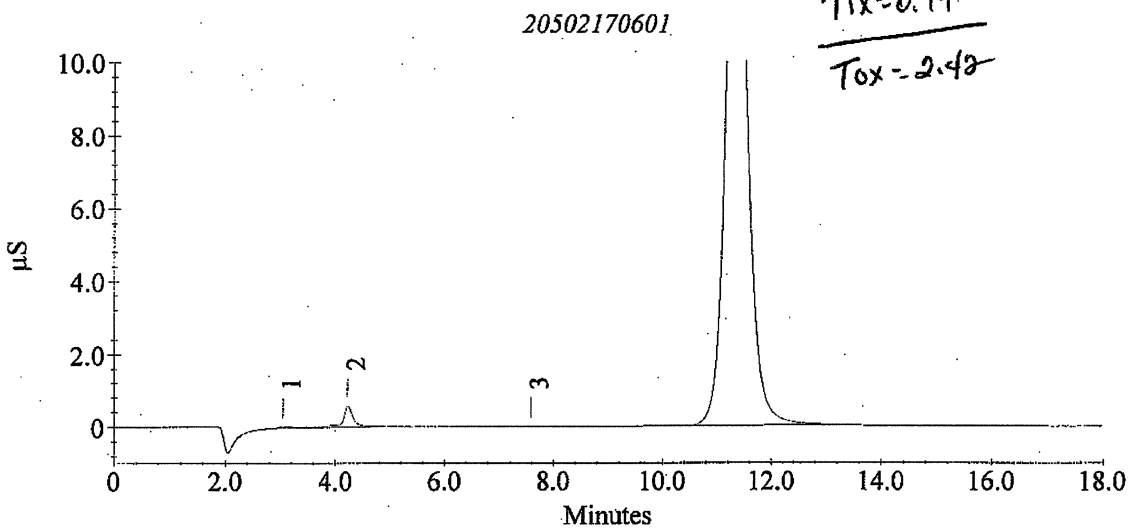
Sample Name : 20502170601
Data File Name : D:\PEAKNET\DATA\022005\0221_A019.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 23:16:59
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 19

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.05	0.06 ✓	2392	295
2	CHLORIDE,16887-00-6	4.22	0.73 ✓	72413	5734
3	NITRATE,14797-55-8	7.58	0.13	2256	158
4	SULFATE,14808-79-8	11.32	60.75	4860210	184862

Tx BOA 2/22/05
~~Tox~~ = 3.21
Tix = 0.79
Tox = 2.42



Sample Analysis Report

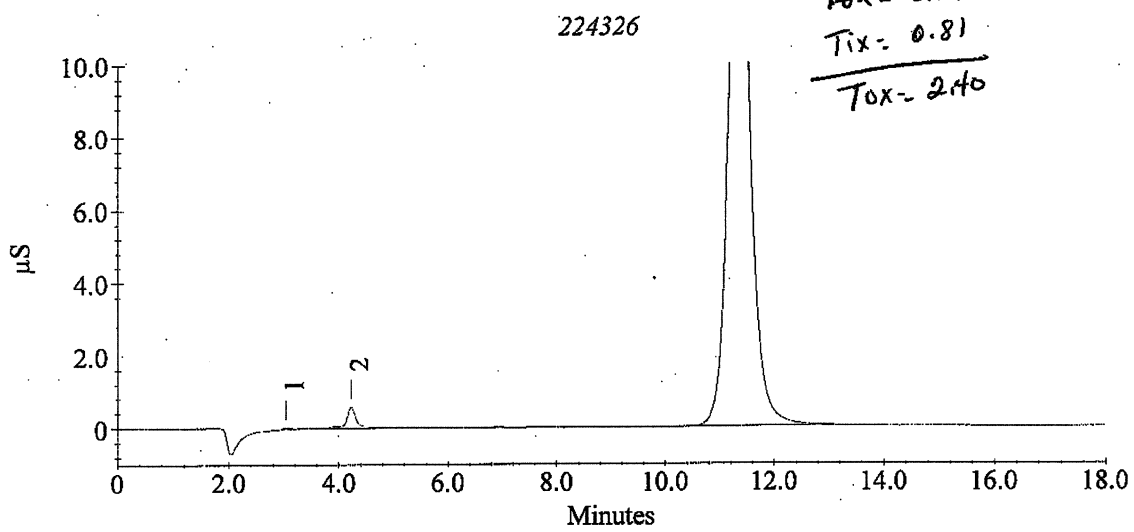
Sample Name : 224326
Data File Name : D:\PEAKNET\DATA\022005\0221_A020.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 23:37:35
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 20

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.03	0.06 ✓	1673	229
2	CHLORIDE,16887-00-6	4.22	0.75 ✓	75136	5873
3	SULFATE,14808-79-8	11.32	58.41	4673784	177025

2/22/05
~~Tox~~ Tix BCA = 3.21
Tix = 0.81
Tox = 2.40



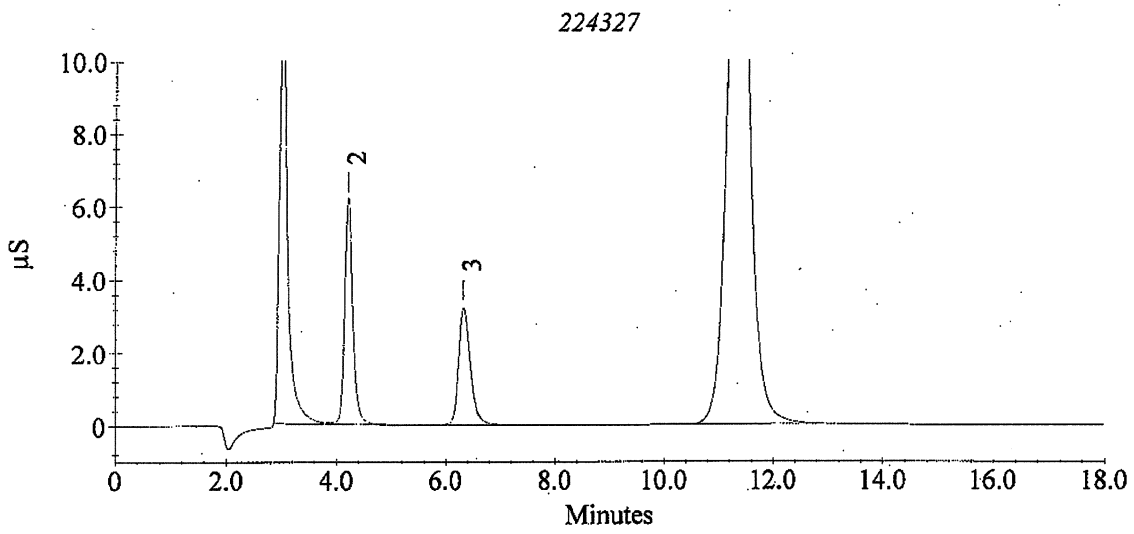
Sample Analysis Report

Sample Name : 224327
Data File Name : D:\PEAKNET\DATA\022005\0221_A021.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/21/2005 23:58:10
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 21

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	3.00	* 7.58 150%	1238097	121517
2	CHLORIDE,16887-00-6	4.20	6.19 109	630516	61141
3	BROMIDE,24959-67-9	6.32	10.79 108	478204	31971
4	SULFATE,14808-79-8	11.32	62.61	5008918	191827



* Matrix interference

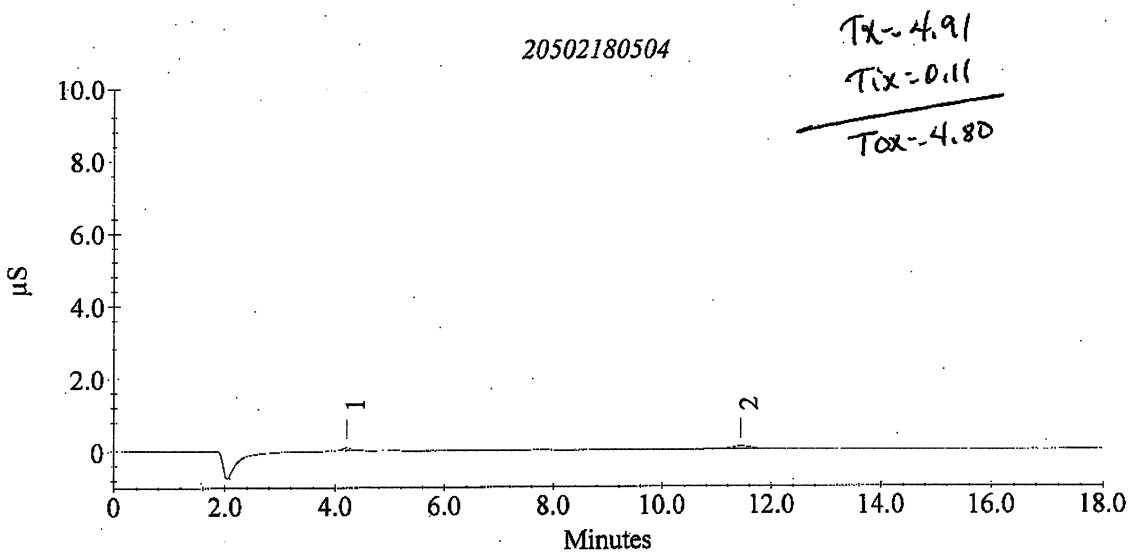
Sample Analysis Report

Sample Name : 20502180504
Data File Name : D:\PEAKNET\DATA\022005\0221_A022.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/22/2005 00:18:45
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 22

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.22	0.11 ✓	8873	865
2	SULFATE,14808-79-8	11.43	0.09	21873	792



Tx-4.91
Tix-0.11
Tox-4.80

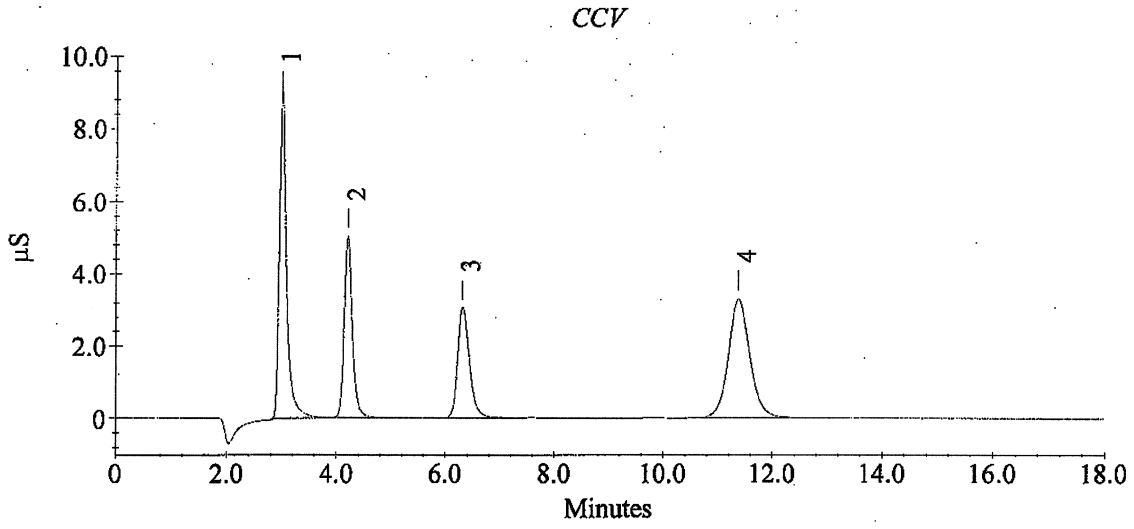
Sample Analysis Report

Sample Name : CCV
Data File Name : D:\PEAKNET\DATA\022005\0221_A023.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/22/2005 00:39:20
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 23

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	FLUORIDE,16984-48-8	2.98	5.16 103	840577	87858
2	CHLORIDE,16887-00-6	4.20	5.13 102	522078	50222
3	BROMIDE,24959-67-9	6.30	10.45 104	463192	30308
4	SULFATE,14808-79-8	11.37	11.02 110	893152	32816



Sample Analysis Report

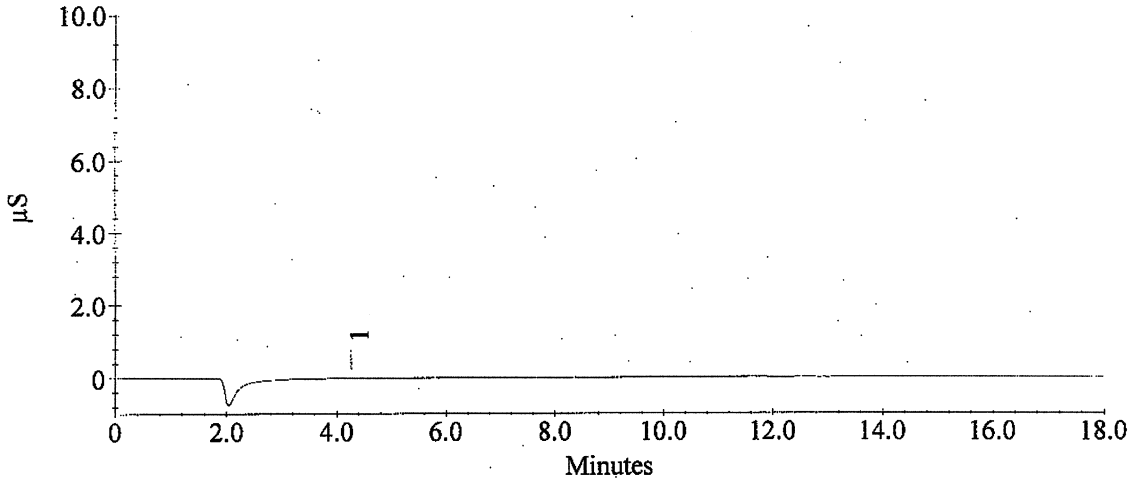
Sample Name : CCB
Data File Name : D:\PEAKNET\DATA\022005\0221_A024.DXD

Method File Name : d:\peaknet\method\dx500no3met.met
Date Time Collected : 02/22/2005 00:59:54
System Operator : AEL
Dilution Factor : 1.00
Injection Number : 24

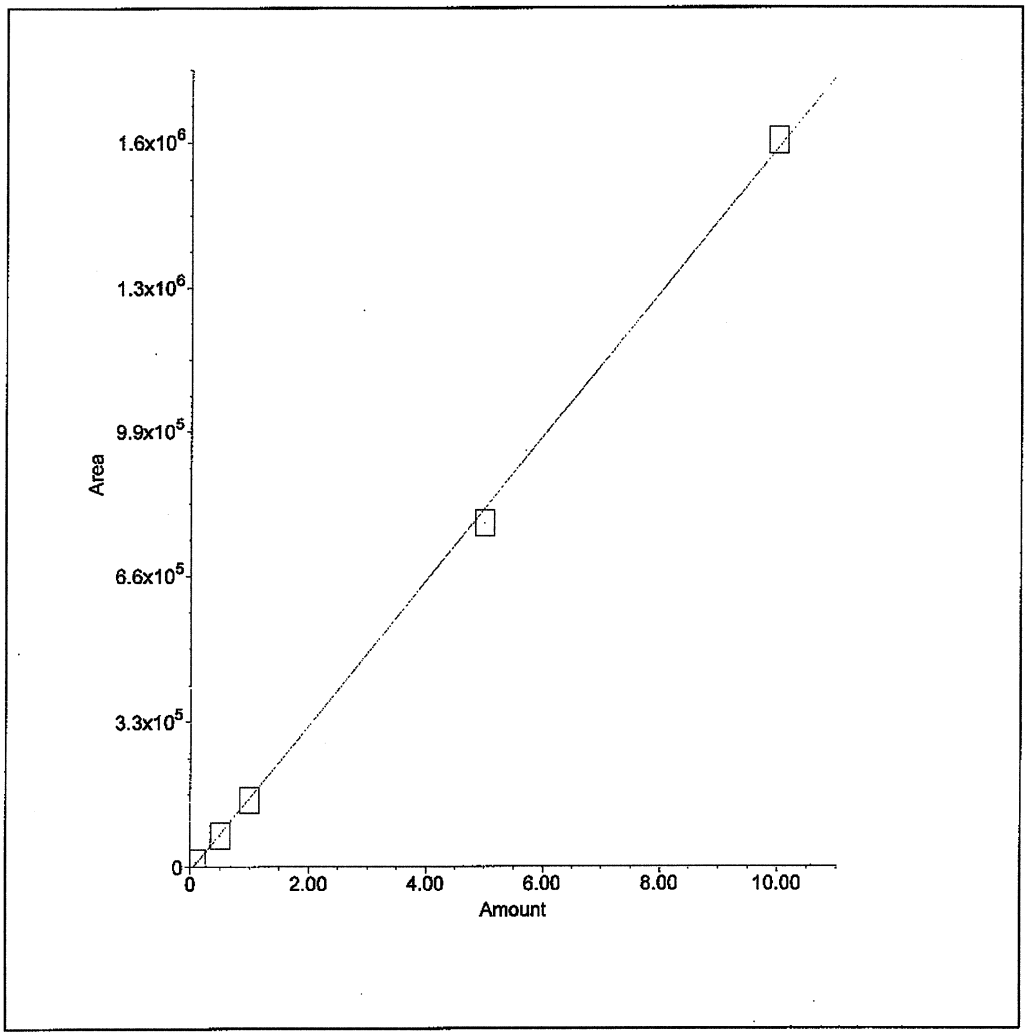
Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount	Peak Area	Peak Height
1	CHLORIDE,16887-00-6	4.27	0.03	1221	35

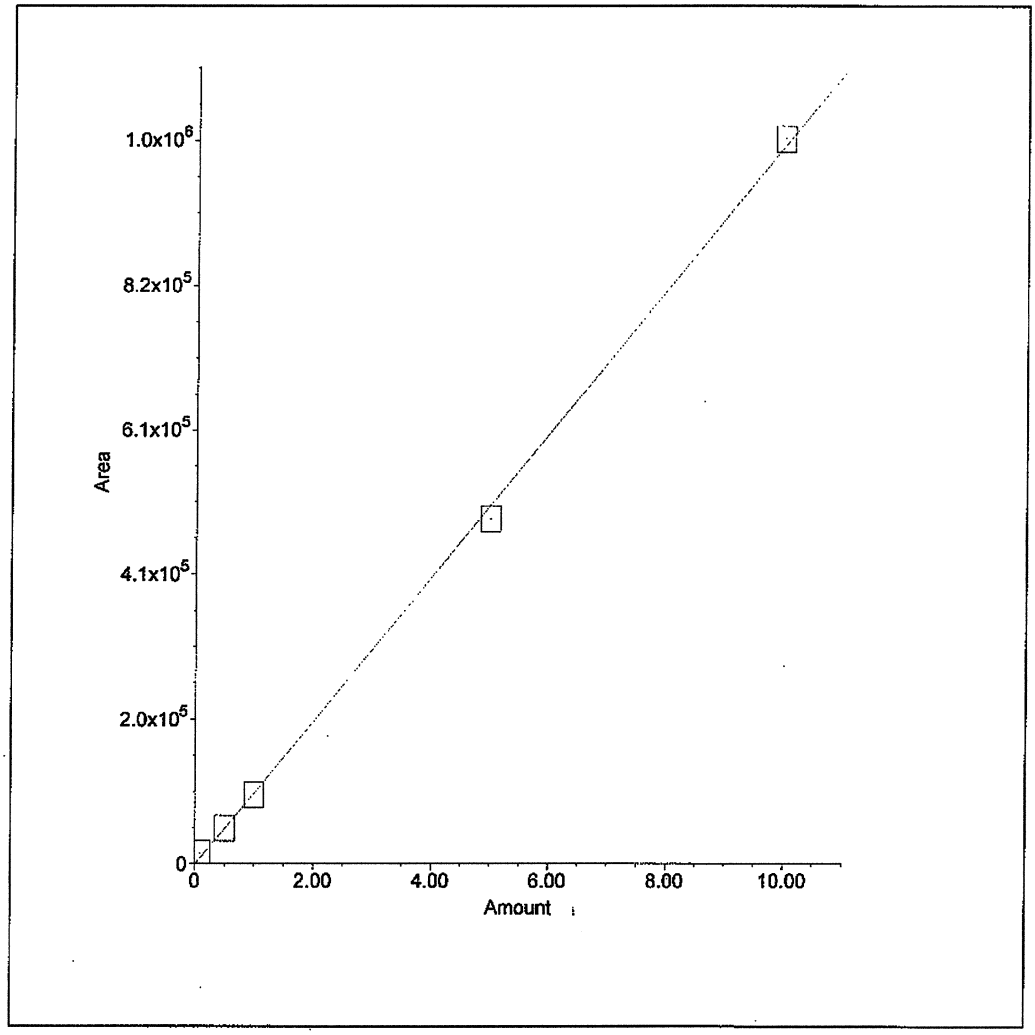
CCB



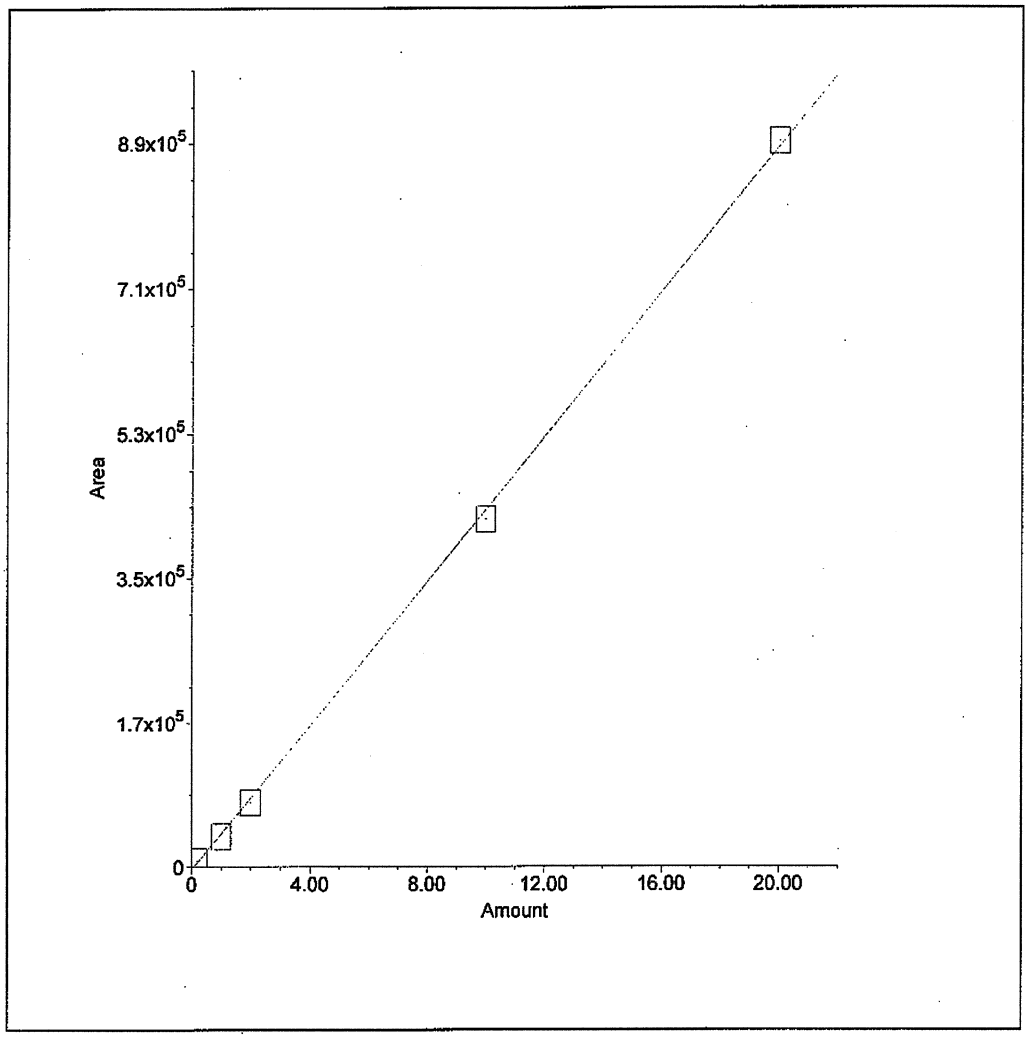
1. Component:FLUORIDE,16984-48-8
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999272
Amt=6.085e-006*Resp+0.04986



2. Component:CHLORIDE,16887-00-6
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999404
Amt=9.786e-006*Resp+0.01852



4. Component:BROMIDE,24959-67-9
Standard:External Fit Type:Linear
Origin:Include Calibration:Area
r^2=0.999464
Amt=2.239e-005*Resp+0.08076



GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

TOTAL ORGANIC HALIDES
TOX-10E

Analyst: HW
Date: 2-7-05
Time: 1040

Cal./MS/Ads. Eff Std. Lot #:
ICV Lot #:
HBN: 285727 / 2871607

285727

Sample ID	Sample Vol (ml)	Column 1 ug	Column 2 ug	Average Total ug	Final Conc ug/L*	Std./MS % Rec
Method Blank-KNO3						
Calibration Std. - 5 ug						
ICV Std.						
Adsorption Eff. Std - 5 ug						
CCB	100	0.1629	0.0000			
				0.0814	<10.0	
20502031201	50ul	2.7928	2.8129			
		0.0000	0.0000	2.8028	56100.	
20502031202	50ul	2.8473	2.5777			
		0.0000	0.0000	2.7125	54200	
20502031203	200ul	2.7620	2.2205			
		0.0000	0.0128	2.4976	12500.	
CCV 10ul	100	5.0402	5.4199			
				5.2300	52.3/50.0	105
CCB	100	0.0000	0.0000			
				0.0000	<10.0	
2/14/05 1038 CCV 10ul	100ml	4.5627	4.6216			
~~CCB~~ HW 2/14/05				4.5922	45.9/50.0	92
CCB	100ml	0.0517	0.0000			
				0.0258	<10.0	
20502090201	50ul	2.7946	2.9163			
		0.0000	0.0000	2.8554	57100	
20502090202	50ul	1.4643	1.6655			
		0.0000	0.0000	1.5649	31300	
2/15/05 0951 CCV 10ul	100ml	4.8703				
				4.8703	48.7/50.0	97
CCB/MB	100	0.0000				
				0.0000	<10.0	
LCS 100ul 53.9	100	5.4717	5.3901			
				5.4309	54.3/53.9	101
20502090203	10ml	2.7237	2.4174			
		0.0000	0.0000	2.5706	257.	
20502090203 Dup	10ml	2.2775	2.3797			
		0.0000	0.0000	2.3286	233.	

CAE 2/9

CAE 2/15 new batch

*Final Conc. = Average of duplicate results
Calibration Std. Response Factor: 0.9360
NA-The second column result is less than or equal to the method blank

TOX ug/L = ug results** / mls sample x 1000

**The method blank is subtracted from the recorded total ug results.

Secondary Review: CAE 2/15/05

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

TOTAL ORGANIC HALIDES
TOX-10E

Analyst: HLO
Date: 2-15-05
Time: 0951

Cal./MS/Ads. Eff Std. Lot #:
ICV Lot #:
HBN: 287607

Sample ID	Sample Vol (ml)	Column 1 ug	Column 2 ug	Average Total ug	Final Conc ug/L*	Std./MS % Rec
Method Blank-KNO3						
Calibration Std. - 5 ug						
ICV Std.						
Adsorption Eff. Std - 5 ug						
205020 90203	10ml	7.4837	7.7179			
SPK		0.0000	0.0000	7.6008	760.	503/500 101%
CCV 10ul	100	5.0604	5.1465			
				5.1034	51.0/50.0	102
CCB	100	0.0000	0.0000			
				0.0000	<10.0	CAE 2/15
2/22/05 825 CCV 10ul	100	4.8754	5.2050			
				5.0402	50.4/50.0	101
CCB	100	0.0000	0.0000			
				0.0000	<10.0	
205021 64501	50ul	3.0502	3.2829			
		0.1904	0.0000	3.2618	65200	
205021 64502	50ul	2.3595	2.5295			
		0.0000	0.0000	2.4445	48900	
205021 64503	10ml	1.7891	1.4974			
		0.0000	0.0000	1.6432	164.	
205021 80505	25ml	0.3179	0.4714			
* Due to ~~salt~~ high	particulates	0.0000	0.0000	0.3946	(15.8) <40	
CCV 10ul	100	5.2366	5.1873			
				5.2120	52.1/50.0	104
CCB	100	0.0971	0.2677			
				0.1824	<10.0	CAE 2/23/05
2/28/05 0910 CCV 10ul	100	4.8913	4.7616			
				4.8264	48.3/50.0	97
CCB	100	0.0000	0.0186			
				0.0093	<10.0	
205022 40601	50ul	3.1302	2.6231			
		0.0000	0.0000	2.8766	57500.	
205022 40602	50ul	3.5764	3.2486			
		0.2231	0.0000	3.5240	70500.	

*Final Conc. = Average of duplicate results
Calibration Std. Response Factor: 0.9360
NA-The second column result is less than or equal to the method blank

TOX ug/L = $\frac{\text{ug results**}}{\text{mls sample}}$ x 1000

**The method blank is subtracted from the recorded total ug results.

Secondary Review: CAE 3/1/05

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

TOTAL ORGANIC HALIDES
TOX-10E

Analyst: _____
Date: _____
Time: _____

Cal./MS/Ads. Eff Std. Lot #: _____
ICV Lot #: _____
HBN: _____

Sample ID	Sample Vol (ml)	Column 1 ug	Column 2 ug	Average Total ug	Final Conc ug/L*	Std./MS % Rec
Method Blank-KNO3						
Calibration Std. - 5 ug						
ICV Std.						
Adsorption Eff. Std - 5 ug						
20502240603	25ml	2.3198	2.0826			
		0.4510	0.1485	2.5010	100.0	
CCV 10ul	100	5.0941	4.9689			
				5.0315	50.3/50.0	101
CCB	100	0.0000	0.0000			
				0.0000	210.0	

CAE 3/11

*Final Conc. = Average of duplicate results
Calibration Std. Response Factor: 0.9360
NA-The second column result is less than or equal to the method blank

TOX ug/L = $\frac{\text{ug results}^{**}}{\text{mls sample}}$ x 1000

**The method blank is subtracted from the recorded total ug results.

Secondary Review: _____

205022/04 4MK

CH2MH: 11/4340/~~2060210-05~~/2-25-05

CH2M Hill 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: **248799-062 (2 of 3)**

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.S. Cecil Field	248799	Gulf Coast Labs. Dana Merril	Jeff Marks, CH2M HILL Constructors, Inc.	6219 Authority Avenue, Jacksonville, FL 32215 PH: 904-777-4812 FAX: 904-777-4262
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.):
Building 238 Drum and Stained Soil Removal	CTO 0005	802231	Russell Henderson CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT:	PROJECT 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, CH2M HILL Constructors, Inc.	PH (904) 777-4812 FAX (904) 777-4262	Ph:(225) 769-4900		3°

ANALYSES REQUIRED (Include Method)

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)	BTEX + MTBE by 5035/8260B	16 listed PAHs (including 1- and 2-Methylnaphthalene) by 8310	TRPH by FL-PRO	TOX by 9020; PCBs by 8082; TCL Pesticides by 8081A; 8 RCRA metals by 6010B/7470A ignitability by 1010	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	05283SCS050217	Soil Confirmation	S	02/17/05	15:00	C	14 Day	4	1	1		Grab		-1
2	05283EB1W050217	Pre-Equipment Rinsate Blank	W	02/17/05	14:40	C	14 Day	3	2	2		Grab		-2
3	05283EB2W050217	Post-Equipment Rinsate Blank	W	02/17/05	15:10	C	14 Day	3	2	2		Grab		-3
4	05283LOP050217	Drum with Lube Oil label	W	02/17/05	10:15	B	7 Day				2	Grab		-5 *
5	05283GCP050217	Grease Canister	S	02/17/05	10:00	B	7 Day				2	Grab		-4 *
6														
7														
8														
9														
10														

g

COURIER AND SHIPPING NUMBER: FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature: Randy Dumaop / Greg Ramey / Jeff Marks CH2M HILL Constructors, Inc.			Printed Name and Signature:		
Jeff Marks, CH2M HILL Constructors, Inc.	02/17/2005	18:00	FedEx Tracking Numbers: 790922916721, 790922916743, 790922916802, 790922916754	02/17/2005	18:00
Printed Name and Signature:			Printed Name and Signature:		
Fed Ex 790922916721	2-18-05	0920		2-18-05	0920

790922916802
790922916754
790922916743

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

Form CCI001, Rev 02/00

* 5's are in this WO only!

000230

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	205022104	**Type:**	D
Desc:		**Report:**	REVIEW_RPT
Work ID:	Former N.S. CECIL FIELD	**Status:**	WP
Project Seq:	27690	**Created:**	2/21/2005 10:57
Client:	4380 - CH2M Hill Constructors	**QA:**	
Profile:	67690 - CTO 5/R3 - Former N.S. CECIL FIELD	**PO:**	802231

WORKORDER SAMPLES

			pH PRESERVATIVE			VOA HEADSPACE			
Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180504-1	LA	NONE			X			X	OK
20502180504-2	LA	NONE			X			X	OK

Container ID	**Type**	**Preservative**	A	U	N\A	A	U	N\A	**CONTAINER CONDITION**
20502180505-1	8	L-Na2SO3			✓			X	OK
20502180505-2	LA	NONE			X			X	OK
20502180505-3	8	L-HNO3			✓			X	OK
20502180505-4	LA	NONE			X			X	OK

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_____ CUSTODIAN LSN