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FOURTH QUARTER 2003 OPERATIONS AND MAINTENANCE STATUS REPORT FOR BIOVENTING AND BIOSPARGING SYSTEMS AT SOUTH FUEL FARM NAS CECIL FIELD FL

4/1/2004

CH2MHILL CONSTRUCTORS INC

Fourth Quarter 2003
Operations and Maintenance Status Report

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

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

Submitted to:

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Southern Division

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A Historical Data
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Acronyms

ABB-ES	ABB Environmental Services, Inc.
acfm	actual cubic feet per minute
AST	aboveground storage tank
BCT	BRAC Cleanup Team
BEI	Bechtel Environmental, Inc.
bls	below land surface
BRAC	Base Realignment and Closure
BTEX	benzene, toluene, ethylbene , and xylene
CH2M HILL	CH2M HILL Constructors, Inc.
CLEAN	Comprehensive Long-term Environmental Action Navy
CTO	Contract Task Order
EMT	earth-mounded tank
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FID	flame ionization detector
FL PRO	Florida Petroleum Residual Organic
GCTLs	Groundwater Cleanup Target Levels
in Hg	inches of mercury
µg/L	micrograms per liter
mg/L	milligrams per liter
mS/cm	milliSeimens per centimeter
MTBE	methyl tert butyl ether
mV	millivolts
NAS	Naval Air Station
NAVFAC EFD SOUTH	Naval Facilities Engineering Command, Southern Division
NGVD	National Geodetic Vertical Datum
NM	not measured
NTU	nephelometric turbidity units
O&M	operations and maintenance
^{o}C	degrees Celsius
^{o}F	degrees Fahrenheit
ORP	oxygen reduction potential
OVA	organic vapor analyzer
PAHs	polycyclic aromatic hydrocarbons
ppm	parts per million
psig	pounds per square inch gauge
PVC	polyvinyl chloride
RAP	Remedial Action Plan
scfm	standard cubic feet per minute
SCTLs	Soil Cleanup Target Levels
SFF	South Fuel Farm

Acronyms continued

TRPH	total recoverable petroleum hydrocarbon
UST	underground storage tank
VOC	volatile organic compound

1.0 Introduction

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

Bioventing and biosparging systems were installed at SFF to reduce petroleum hydrocarbon contaminant concentrations in site groundwater and unsaturated soils. The purpose of this 4th Quarter 2003 Operation and Maintenance Status Report is to provide a summary of activities performed at the site during the period of October 1, 2003, to December 31, 2003.

1.1 Objective

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

1.2 Site History

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

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

excavated 28,953 tons of petroleum-impacted soil from October 1998 to February 1999 (CH2M HILL, 2001).

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

1.3 Remediation System/Technology Description

1.3.1 Bioventing System

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

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

1.3.2 Biosparging System

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

The SFF biosparging system consists of 23 two-inch diameter PVC vertical biosparging wells (BS-1 through BS-23), a rotary screw air compressor, receiver tank, air dryer, in-line moisture separator, in-line coalescing oil filter, pressure regulator/gauge, header piping, valves, flow gauge, and system controls. The aboveground portion of the biosparging system is located in the same fenced canopy covered equipment area as the bioventing system. The biosparging wells are screened from approximately 27 to 30 feet bls. The biosparging system is designed for each well to operate at a flow rate of 1 acfm at an injection pressure of 15 pounds per square inch gauge (psig) (ABB-ES, 1996). The locations of the biosparging wells are shown on Figure 1-1.

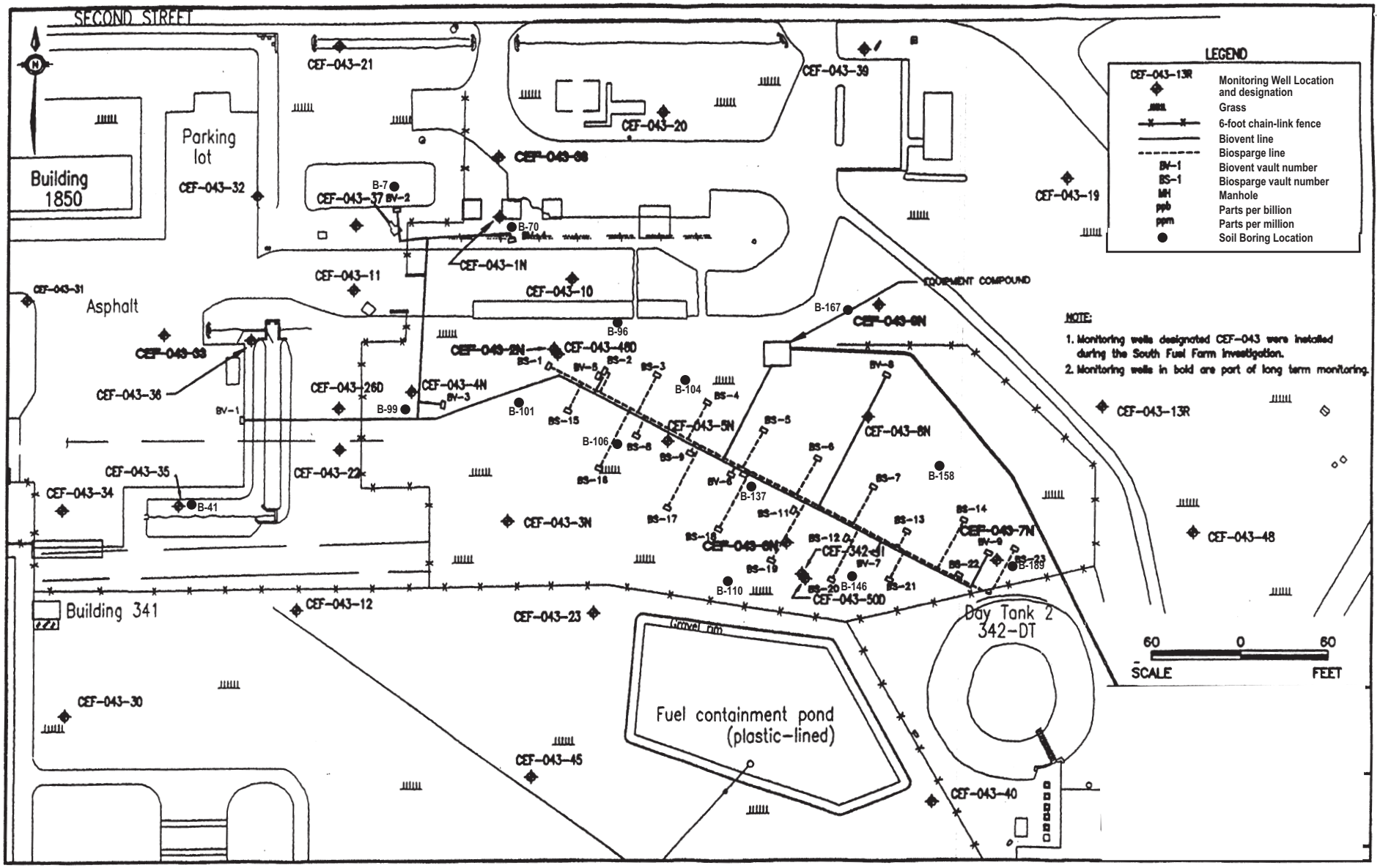

Figure 1-1
Site Plan
South Fuel Farm
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

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2.0 System Performance Monitoring

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

During the O&M activities, the injection pressures and individual well air flow rates were adjusted and rebalanced in attempt to achieve the design specifications. These adjustments will be evaluated during the 1st quarter of 2004.

2.1 Operational Efficiencies

2.1.1 Bioventing System

	Operational Period	To Date
Hours of Possible Operation	2,208	50,304
Hours of Actual Operation	2,208	34,141.4
Percent hours of Operation	100%	67.8%

2.1.2 Biosparging System

	Operational Period	To Date
Hours of Possible Operation	2,208	50,304
Hours of Actual Operation	2,208	47,251
Percent hours of Operation	100%	93.9%

2.2 Summary of Maintenance and System Downtime

2.2.1 Bioventing System

During the 4th quarter 2003, the bioventing system ran the entire 92 days, resulting in no downtime.

2.2.2 Biosparging System

During the 4th quarter 2003, the biosparging system ran the entire 92 days, resulting in no downtime.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Bioventing System

During the 4th quarter 2003, the blower discharge pressure averaged 28.4 inches of water compared to the design blower discharge pressure of 40 inches of water. The total air injection flow rate at the blower averaged 106 standard cubic feet per minute (scfm), compared to the design blower flow rate of 80 scfm. Bioventing system data for the 4th quarter 2003 are summarized in Table 2-1.

TABLE 2-1
Bioventing System Data

Date	Blower Discharge Pressure (inches of water)	Blower Discharge Temperature (^{o}F)	Blower Air Flow Rate (scfm)
10/1/2003	28	104	107
10/9/2003	30	110	106
10/16/2003	30	110	106
10/20/2003	30	95	107
10/30/2003	28	108	108
11/6/2003	28	118	107
11/14/2003	28	98	100
11/21/2003	28	108	105
11/24/2003	28	110	105
12/10/2003	28	110	96
12/18/2003	28	93	110
12/23/2003	28	104	108
12/30/2003	27	100	108

^{o}F - degrees Fahrenheit
scfm - standard cubic feet per minute

2.3.2 Biosparging System

During the 4th quarter 2003, the injection header discharge pressure averaged 16 psig, compared to the design injection pressure of 15 psig. The 4th quarter 2003 biosparging system data are tabulated in Table 2-2.

TABLE 2-2
Biosparging System Data

Date	Air Compressor Supply Pressure (psig)	Air Compressor Discharge Temperature (^oF)	Receiver Tank Supply Pressure (psig)	Header Discharge Pressure (psig)
10/1/2003	75	190	68	16
10/9/2003	80	200	75	16
10/16/2003	70	195	65	16
10/20/2003	82	180	75	16.5
10/30/2003	70	195	65	16
11/6/2003	76	210	70	16
11/14/2003	78	185	70	16
11/21/2003	68	195	58	16
11/24/2003	75	200	68	16
12/10/2003	63	180	55	16
12/18/2003	42	180	30	16
12/23/2003	42	190	30	16
12/30/2003	50	180	35	16

psig - pounds per square inch gauge
^oF - degrees Fahrenheit

2.4 Water Level Measurements

Groundwater elevation measurements were recorded on a monthly basis from 20 monitoring wells during the 4th quarter 2003. The results from the 4th quarter 2003 groundwater level measurement surveys are provided in Table 2-3. Light non-aqueous phase liquid (LNAPL) was not detected in monitoring wells during the 4th quarter 2003.

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

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAGD)	Depth to Water (feet bls)	Water Level Elevation (feet NAGD)
CEF-043-1N	10/21/2003	78.15	6.98	71.17
	11/24/2003		7.95	70.20
	12/30/2003		8.96	69.19
CEF-043-2N	10/21/2003	78.00	7.10	70.90
	11/24/2003		8.04	69.96
	12/30/2003		9.00	69.00
CEF-043-3N	10/21/2003	78.26	8.02	70.24
	11/24/2003		8.75	69.51
	12/30/2003		9.45	68.81
CEF-043-4N	10/21/2003	78.07	7.31	70.76
	11/24/2003		8.15	69.92
	12/30/2003		8.93	69.14
CEF-043-5N	10/21/2003	78.46	8.13	70.33
	11/24/2003		8.70	69.76
	12/30/2003		9.81	68.65
CEF-043-6N	10/21/2003	77.79	7.35	71.11
	11/24/2003		8.20	70.26
	12/30/2003		9.16	69.30
CEF-043-7N	10/21/2003	77.61	6.32	71.29
	11/24/2003		7.46	70.15
	12/30/2003		8.90	68.71
CEF-043-8N	10/21/2003	78.41	7.01	71.40
	11/24/2003		8.15	70.26
	12/30/2003		9.39	69.02
CEF-043-9N	10/21/2003	77.50	5.50	72.00
	11/24/2003		6.91	70.59
	12/30/2003		8.16	69.34
CEF-043-10	10/21/2003	78.55	7.44	71.11
	11/24/2003		8.43	70.12
	12/30/2003		8.91	69.64
CEF-043-19	10/21/2003	78.47	6.02	72.45
	11/24/2003		7.44	71.03
	12/30/2003		8.84	69.63
CEF-043-20	10/21/2003	78.59	6.56	72.03
	11/24/2003		7.17	71.42
	12/30/2003		8.99	69.60
CEF-043-21	10/21/2003	76.71	5.20	71.51
	11/24/2003		6.08	70.63
	12/30/2003		6.97	69.74
CEF-043-22	10/21/2003	77.24	6.51	70.73
	11/24/2003		7.34	69.90
	12/30/2003		7.78	69.46

TABLE 2-3
Water Level Measurements

Well Identification	Date	Top of Casing Elevation (feet NAGD)	Depth to Water (feet bls)	Water Level Elevation (feet NAGD)
CEF-043-32	10/21/2003	76.53	5.31	71.22
	11/24/2003		6.14	70.39
	12/30/2003		6.82	69.71
CEF-043-33	10/21/2003	76.97	5.94	71.03
	11/24/2003		6.78	70.19
	12/30/2003		6.91	70.06
CEF-043-34	10/21/2003	76.84	NM	NM
	11/24/2003		NM	NM
	12/30/2003		NM	NM
CEF-043-38	10/21/2003	77.62	6.35	71.27
	11/24/2003		7.30	70.32
	12/30/2003		8.30	69.32
CEF-043-48	10/21/2003	77.10	6.15	70.95
	11/24/2003		7.45	69.65
	12/30/2003		8.61	68.49
CEF-043-50D	10/21/2003	77.23	7.78	69.45
	11/24/2003		9.05	68.18
	12/30/2003		9.98	67.25

bls - below land surface
NGVD - National Geodetic Vertical Datum 1929 (NGVD 1929)
NM – not measured

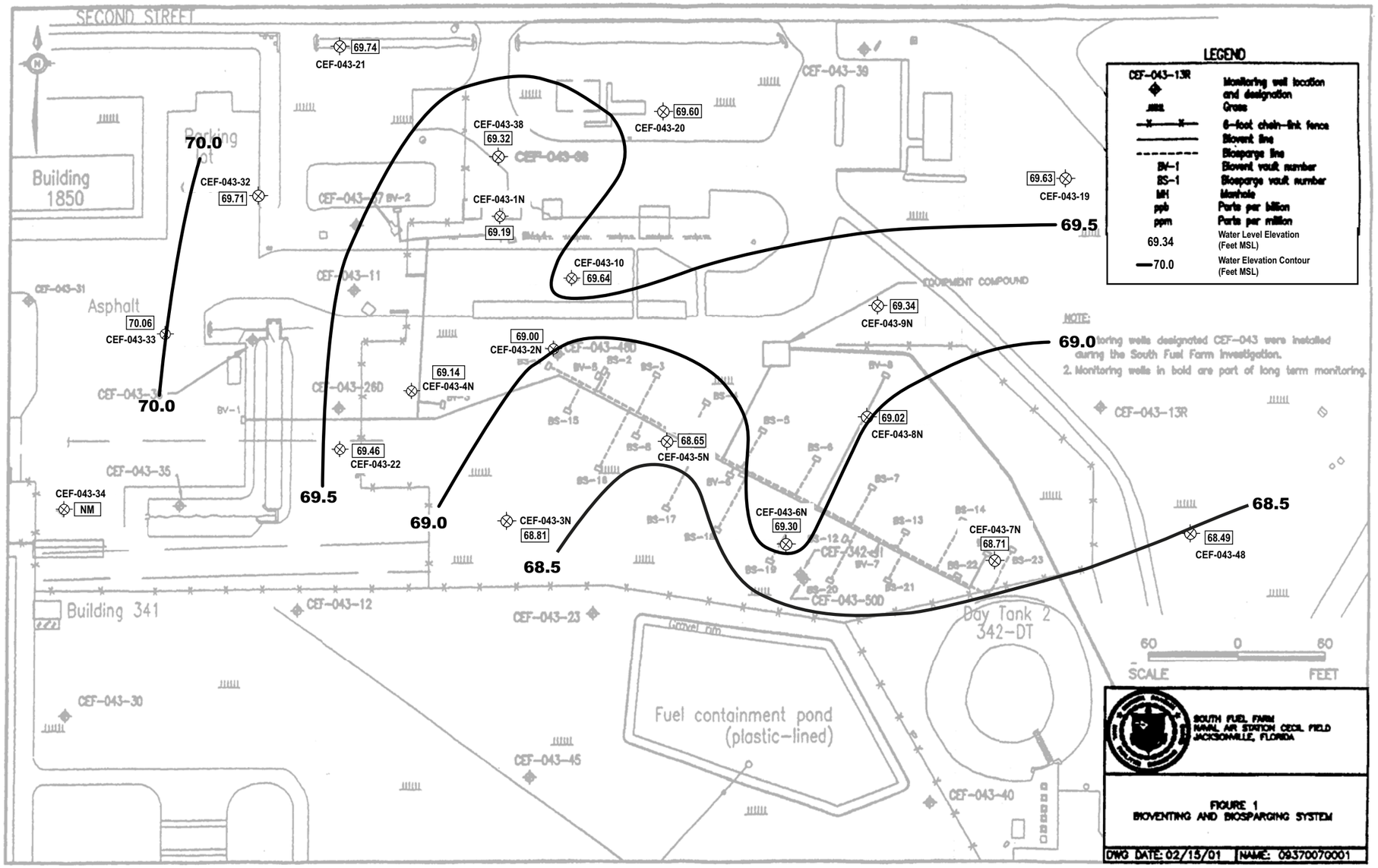

Figure 2-1
Potentiometric Surface Map - December 30, 2003
South Fuel Farm
NAS Cecil Field
Jacksonville, Florida

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3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Soil Monitoring

Soil screening and sampling is conducted on an annual basis in the 4th quarter of each year. The 2003 annual soil screening and sampling event was performed on November 5, 2003. Fifteen soil borings were installed at the locations shown on Figure 1-1. The soil was screened using an organic vapor analyzer (OVA) equipped with a flame ionization detector (FID) at depths from 2 to 4 feet bls. The water table was encountered at 4 to 5 feet bls. The OVA/FID readings are tabulated in Table 3-1. Soil borings B-41, B-96, B-99, and, B-106 exhibited net OVA/FID readings in excess of 50 parts per million (ppm).

TABLE 3-1
Soil Screening OVA Readings

Soil Boring Number	Date	Depth (feet bls)	Unfiltered OVA Reading (ppm)	Filtered OVA Reading (ppm)	Net OVA Reading (ppm)
B-7	11/04/03	2	46	5	41
	11/04/03	4	25	5	20
B-31	11/04/03	2	5	0	5
	11/04/03	4	4	0	4
B-41	11/04/03	2	2.5	0	2.5
	11/04/03	4	674	4	670
B-70	11/04/03	2	0.4	0	0.4
	11/04/03	4	0.35	0	0.35
B-96	11/04/03	2	491	10	481
	11/04/03	4	20,700	8	20,692
B-99	11/04/03	2	0.1	0	0.1
	11/04/03	4	1011	125	886
B-101	11/04/03	2	0.6	0	0.6
	11/04/03	4	13	0	13
B-104	11/04/03	2	4.9	0	4.9
	11/04/03	4	5	0	5
B-106	11/04/03	2	0.4	0	0.4
	11/04/03	4	60	9	51
B-110	11/04/03	2	1.6	0	1.6
	11/04/03	4	0.2	0	0.2
B-137	11/04/03	2	0	0	0
	11/04/03	4	0	0	0
B-146	11/04/03	2	1.41	0	1.41
	11/04/03	4	1.74	0	1.74
B-158	11/04/03	2	10	0	10
	11/04/03	4	2	0	2
B-167	11/04/03	2	0.2	0	0.2
	11/04/03	4	0.15	0	0.15

TABLE 3-1
Soil Screening OVA Readings

Soil Boring Number	Date	Depth (feet bls)	Unfiltered OVA Reading (ppm)	Filtered OVA Reading (ppm)	Net OVA Reading (ppm)
B-189	11/04/03	2	0.8	0	0.8
	11/04/03	4	2.2	0	2.2

OVA = organic vapor analyzer
bls = below land surface
ppm = parts per million
Filtered readings obtained using an activated charcoal filter
Net Reading = unfiltered reading - filtered reading
OVA readings taken using an OVA meter equipped with a flame ionization detector (FID).
Shaded values indicate the Net OVA readings that exceed 50 ppm.

One laboratory soil sample was collected from each of the 15 soil borings at the depth interval with the highest net OVA/FID reading. These soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and methyl tert butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260B, naphthalene and polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8310, and total recoverable petroleum hydrocarbon (TRPH) by the Florida Petroleum Residual Organic (FL PRO) Method. The analytical results are summarized in Table 3-2. Historical soil analytical results are presented in Table A-1 of Appendix A. The analytical laboratory report from the soil sampling event is provided in Appendix B.

The results indicated that TRPH was detected at concentrations that exceeded the Leachability based on Groundwater Criteria and the Direct Exposure Residential SCTLs in soil samples from five boring locations (B-41, B-99, B-101, B-106, and, B-146). In addition, benzo(a)pyrene and dibenz(a,h)anthracene in boring B-96 exceeded the Direct Exposure Residential SCTL; and xylenes (total) in boring B-41 and naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene in boring B-70 exceeded the Leachability based on Groundwater Criteria SCTLs. In general, the concentrations of these parameters have decreased from baseline soil sampling event (March 1999) concentrations. However, the TRPH values at soil borings B-41 and B-99 have increased one to two orders of magnitude since the baseline soil sampling event.

3.2 Groundwater Monitoring

Groundwater sampling is conducted on an annual basis. The annual groundwater sampling event is scheduled to be performed in the 2nd quarter of 2004.

Field tests were performed on the well headspace and groundwater samples collected from selected monitoring wells on a monthly basis during the 4th quarter 2003 to evaluate indications of biological activity and influence of the bioventing and biosparging systems. The headspace in each monitoring well was tested for percent methane, percent carbon dioxide, percent oxygen, pressure, and total VOCs using an OVA/FID. The groundwater in each monitoring well was tested for pH, conductivity, turbidity, dissolved oxygen, temperature, and oxygen reduction potential (ORP). The results of the field tests are summarized in Table 3-3.

TABLE 3-2
Soil Analytical Results

Station ID	Sample ID	Sample Depth (ft bgs)	Sample Date	Benzene	Ethylbenzene	Toluene	Xylene (total)	tert-Butyl methyl ether (MTBE)	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Fluorene	Fluoranthene	Phenanthrene	Pyrene	TRPH
			Leachability from GW Criteria[1]	0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	2.1	27	2500	3.2	8	10	25	32000	77	28	30	160	1200	250	880	340
			Direct Exposure Residential[1]	1.1	1100	380	5900	3200	40	68	80	1900	1100	18000	1.4	0.1	1.4	15	2300	140	1.5	0.1	2200	2900	2000	2200	340
				Units in mg/kg																							
B7	86-B7-S-1105-03	2	11/05/2003	0.00486 U	0.00486 U	0.00486 U	0.00971 U	0.00486 U	0.00966 U	0.0387 U	0.0387 U	0.0387 U	0.0387 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00384 U	0.00966 U	0.00384 U	0.0194 U	0.00384 U	0.00384 U	0.00384 U	127 =
B31	86-B31-S-1105-03	2	11/05/2003	0.00518 U	0.00518 U	0.00518 U	0.0104 U	0.00518 U	0.00935 U	0.0375 U	0.0375 U	0.0375 U	0.0375 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00372 U	0.00935 U	0.00372 U	0.0188 U	0.00372 U	0.00372 U	0.00372 U	9.01 U
B41	86-B41-S-1105-03	4	11/05/2003	0.212 U	0.212 U	0.212 U	**1.56 =**	0.212 U	0.00984 U	0.066 =	0.0395 U	0.0395 U	0.0395 U	0.00391 U	0.00391 U	0.00146 J	0.00147 J	0.00391 U	0.00391 U	0.00391 U	0.00984 U	0.00391 U	0.0198 U	0.00391 U	0.00391 U	0.00391 U	**10400 =**
B70	86-B70-S-1105-03	4	11/05/2003	0.00547 =	0.00136 J	0.0175 B	0.0164 =	0.00496 U	**1.97 =**	**7.77 =**	**9.7 =**	0.738 U	0.738 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.0731 U	0.184 U	0.0731 U	0.37 U	0.0731 U	0.0731 U	0.134 =	93.5 =
B96	86-B96-S-1105-03	4	11/05/2003	0.278 U	0.0574 J	0.278 U	0.556 U	0.278 U	0.175 U	0.703 U	0.703 U	0.703 U	0.703 U	0.0697 U	0.172 J	0.287 J	0.292 J	0.125 J	0.582 J	0.0697 U	0.307 J	0.114 J	0.353 U	0.0697 U	0.073 J	0.318 J	32.5 J
B99	86-B99-S-1105-03	4	11/05/2003	0.00517 U	0.00188 J	0.0013 B	0.00894 J	0.00517 U	0.135 =	0.0382 U	0.0382 U	0.0382 U	0.0382 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00378 U	0.00952 U	0.00378 U	0.0191 U	0.00378 U	0.0259 =	0.00378 U	**4860 =**
B101	86-B101-S-1105-03	4	11/05/2003	0.00586 U	0.00586 U	0.00586 U	0.0117 U	0.00586 U	0.0509 U	0.204 U	0.204 U	0.204 U	0.204 U	0.0202 U	0.0304 =	0.0202 U	0.0202 U	0.0202 U	0.0202 U	0.0202 U	0.0509 U	0.0202 U	0.102 U	0.0202 U	0.0241 =	0.0202 U	**965 J**
B104	86-B104-S-1105-03	4	11/05/2003	0.00548 U	0.00548 U	0.00548 U	0.00165 J	0.00548 U	0.00939 U	0.0377 U	0.0377 U	0.0377 U	0.0377 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00373 U	0.00939 U	0.00373 U	0.0189 U	0.00373 U	0.00373 U	0.00373 U	37.7 =
B106	86-B106-S-1105-03	4	11/05/2003	0.00522 U	0.00522 U	0.00349 B	0.00151 J	0.00522 U	0.00917 U	0.0368 U	0.0368 U	0.0368 U	0.0368 U	0.00365 U	0.00365 U	0.00497 =	0.0134 =	0.0107 =	0.00365 U	0.0282 =	0.00917 U	0.00365 U	0.0185 U	0.00565 =	0.00365 U	0.00365 U	**401 =**
B110	86-B110-S-1105-03	2	11/05/2003	0.00523 U	0.00523 U	0.00523 U	0.0105 U	0.00523 U	0.00888 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00888 U	0.00353 U	0.0179 U	0.00353 U	0.00353 U	0.00353 U	95.1 =
B137	86-B137-S-1105-03	4	11/05/2003	0.0012 J	0.00533 U	0.00226 B	0.00337 J	0.00533 U	0.00917 U	0.0368 U	0.0368 U	0.0368 U	0.0368 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00364 U	0.00917 U	0.00364 U	0.0184 U	0.00364 U	0.0155 =	0.00364 U	22.9 =
B146	86-B146-S-1105-03	4	11/05/2003	0.00514 U	0.00514 U	0.00514 U	0.0103 U	0.00514 U	0.00886 U	0.0356 U	0.0356 U	0.0356 U	0.0356 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00352 U	0.00886 U	0.00352 U	0.0178 U	0.00352 U	0.00352 U	0.00352 U	**365 =**
B158	86-B158-S-1105-03	2	11/05/2003	0.00537 U	0.00108 J	0.00537 U	0.00233 J	0.00537 U	0.00908 U	0.0364 U	0.0364 U	0.0364 U	0.0364 U	0.00361 U	0.0552 =	0.084 =	0.00361 U	0.0558 =	0.0802 =	0.0976 =	0.062 =	0.0669 =	0.0183 U	0.00361 U	0.00361 U	0.108 =	19.6 =
B167	86-B167-S-1105-03	2	11/05/2003	0.00501 U	0.00501 U	0.00501 U	0.01 U	0.00501 U	0.00869 U	0.0349 U	0.0349 U	0.0349 U	0.0349 U	0.00346 U	0.00346 U	0.0015 J	0.00194 J	0.00232 J	0.00346 U	0.00346 U	0.00869 U	0.00346 U	0.0175 U	0.00346 U	0.00346 U	0.00346 U	8.38 U
B189	86-B189-S-1105-03	4	11/05/2003	0.00583 U	0.00583 U	0.00583 U	0.0117 U	0.00583 U	0.00967 U	0.0388 U	0.0388 U	0.0388 U	0.0388 U	0.00385 U	0.00385 U	0.00385 U	0.00387 =	0.00385 U	0.00385 U	0.00385 U	0.00967 U	0.00385 U	0.0195 U	0.00385 U	0.00385 U	0.00385 U	11 =

Notes:
1 - Ch 62-777 F.A.C Soil Cleanup Target Levels (SCTLs)
U - result not detected
= - value equal to
J - result is estimated
B - contamination found in blank
Shaded values indicates concentration exceeds Residential Direct Exposure Limit
Bold values indicates the compound exceeds Leachability based on Groundwater Criteria value

Methane, carbon dioxide, and oxygen levels are measured as an indication of biological activity. Pressure is measured as an indication of the influence of the bioventing and biosparging systems. FID readings are measured as an indication of the presence of total VOCs, namely petroleum hydrocarbons. As compared to upgradient wells (CEF-043-19, -20, -21, and –48), in general, elevated carbon dioxide levels and less than ambient oxygen levels were observed in most wells in the vicinity of the bioventing/biosparging systems. This suggests that biological activity is occurring. Elevated VOC levels (OVA) readings greater than 50 ppm) were noted in monitoring wells CEF-043-2N and CEF-043-4N.

The dissolved oxygen levels were greater than 1 milligram per liter (mg/L), which indicates favorable conditions for aerobic biological activity.

TABLE 3-3
Field Test Results

		Air					Groundwater					
Well Identificaltion	Sample Date	Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (^{oC})	ORP (mV)
CEF-043-1N	10/21/2003	0	5	15.4	29.7	2.56	6.23	0.317	30.8	2.87	25.7	14
	11/24/2003	0	4	17	29.7	6.01	5.81	0.225	60	4.14	24.9	-21
	12/30/2003	0	2	15.3	30	3.8	6.12	0.272	54	4.32	23.2	-82
CEF-043-2N	10/21/2003	0	5.9	14.7	29.8	1.68	6.24	0.271	999	3.1	26.1	-2
	11/24/2003	0.1	5.2	15.7	29.7	1183	5.9	0.212	999	2.84	25.6	-21
	12/30/2003	0.4	4.1	12.5	30	1080	5.72	0.162	22.9	4.95	23.5	151
CEF-043-3N	10/21/2003	0	4.2	16.7	29.8	0	4.79	0.029	198	1.5	25.2	225
	11/24/2003	0	0.2	20.8	29.8	1.24	5.13	0.026	57	4.99	24.4	213
	12/30/2003	0	0.9	16.8	29.9	1	4.99	0.036	0	6.35	22.9	270
CEF-043-4N	10/21/2003	8.9	15.3	1	29.8	1682	5.89	0.435	6	2	25.2	65
	11/24/2003	0.3	17	0.9	29.7	8100	5.81	0.415	193	1.55	24.5	8
	12/30/2003	2.4	9.8	2	30	6000+	5.84	0.48	59	4.86	22.6	-9
CEF-043-5N	10/21/2003	0	0	21.4	29.9	0.87	5.65	0.06	41	8.99	24.4	228
	11/24/2003	0	0	21.1	29.8	3.35	5.64	0.067	340	9.05	23.5	122
	12/30/2003	0	0	17.5	29.9	2.5	5.17	0.087	123	7.03	21.9	254
CEF-043-6N	10/21/2003	0.1	0.7	20.3	29.9	3.73	5.67	0.186	55.2	8.03	25.8	214
	11/24/2003	0	0.6	20.1	29.8	11.46	5.85	0.19	999	6.13	24.9	17
	12/30/2003	0	0.7	16.2	29.9	10	5.3	0.182	5.5	6.78	23	244
CEF-043-7N	10/21/2003	0	1	20.6	30	0.7	5.82	0.077	68.5	7.76	24.9	174
	11/24/2003	0	0.3	20.7	29.8	3.36	5.42	0.059	305	8.07	24.5	226
	12/30/2003	0	0.4	16.9	30	1	5.75	0.084	62	5.8	22.8	193
CEF-043-8N	10/21/2003	0	0.2	21	29.9	0	5.32	0.068	17.6	6.29	25.3	191
	11/24/2003	0	1.1	20.1	29.8	5.53	5.26	0.068	86.8	7.11	24.5	190
	12/30/2003	0	1.3	16.3	29.9	0	5.72	0.085	27	8.47	22.6	225
CEF-043-9N	10/21/2003	0.1	0.2	21.2	29.9	0.85	5.61	0.116	11	1.99	25.6	71
	11/24/2003	0	1.1	19.5	29.8	3.81	5.57	0.122	134	2.38	24.9	81
	12/30/2003	0	2.2	14.6	29.9	2	5.7	0.17	22	5.5	22.8	172
CEF-043-10	10/21/2003	0	10	6.7	29.7	0.8	5.53	0.313	0	2.33	28.1	199
	11/24/2003	0.1	7.4	12.8	29.7	16.23	5.44	0.314	999	2.92	27.5	147
	12/30/2003	0	0.8	16.4	30	36	5.4	0.325	670	4.77	25.2	209

TABLE 3-3
Field Test Results

Well Identificaltion	Sample Date	Air					Groundwater					
		Methane (%)	Carbon Dioxide (%)	Oxygen (%)	Pressure (in Hg)	OVA (ppm)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (^{o}C)	ORP (mV)
CEF-043-19	10/21/2003	0	2.1	19.4	29.9	0	4.6	0.027	29	1.35	25.3	298
	11/24/2003	0	0.9	20.5	29.8	5.42	4.87	0.027	95.8	3.32	24.6	254
	12/30/2003	0	0.7	17.1	29.9	2	4.7	0.037	1	6	22.8	277
CEF-043-20	10/21/2003	0	0.3	21.2	29.8	8.38	5.17	0.027	25.2	3.42	25.4	172
	11/24/2003	0	0.2	20.9	29.7	14.63	4.95	0.023	275	2.43	24.9	195
	12/30/2003	0	0.4	17.3	30	17	5.41	0.031	11.1	5.71	23.3	226
CEF-043-21	10/21/2003	0	0	21.4	29.8	5.31	5.78	0.097	31.9	2.3	25.2	149
	11/24/2003	0	0.1	21.1	29.7	10.41	5.54	0.092	89	1.83	24.3	167
	12/30/2003	0	0	17.5	30	7.6	5.72	0.108	15.4	5.48	22.2	209
CEF-043-22	10/21/2003	0	5	16.4	29.8	0	5.01	0.041	16.2	2.26	25.2	257
	11/24/2003	0	3.5	18.5	29.8	2.52	4.78	0.04	137	4.38	24.6	231
	12/30/2003	0	1.9	16	30	0	4.89	0.051	23	6.53	22.7	274
CEF-043-32	10/21/2003	0	0.3	21.3	29.2	1.51	6.01	0.308	44.2	2.83	27.8	152
	11/24/2003	0	0.2	21	29.7	5.78	5.79	0.144	47	2.44	26.7	106
	12/30/2003	0	1.2	16.6	30	2.1	5.94	0.097	12.7	4.85	23.9	128
CEF-043-33	10/21/2003	0	3	17.7	29.7	1.08	5.7	0.181	568	1.91	28.2	139
	11/24/2003	0	0.2	20.9	29.7	5.66	5.17	0.134	56	1.63	27.2	173
	12/30/2003	0	3.6	14.1	30	3.6	5.28	0.156	8.1	3.68	24.7	210
CEF-043-34	10/21/2003	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	11/24/2003	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/30/2003	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
CEF-043-38	10/21/2003	0	2.6	18.1	29.7	1.8	6.04	0.187	19.1	5.68	26.2	150
	11/24/2003	0	1.8	19.8	29.7	8.91	5.74	0.116	92.1	2.66	25.4	163
	12/30/2003	0	1.4	16.7	30	12.45	5.35	0.068	521	4.06	22.8	225
CEF-043-48	10/21/2003	0	0.9	21	30	0	5.58	0.042	9.5	5.45	24.9	215
	11/24/2003	0	0.2	21	29.8	1.95	5.35	0.044	104	4.13	24.1	202
	12/30/2003	0	0.4	17.2	30	0	5.7	0.068	6.3	4.49	22.4	230
CEF-043-50D	10/21/2003	0.1	0	21.3	29.9	3.1	5.44	0.11	0	5.19	25.3	209
	11/24/2003	0	0	21.1	29.8	2.83	5.43	0.111	33.4	3.48	24.7	204
	12/30/2003	0	0	17.5	29.9	0	5.5	0.142	0.2	7.5	23.8	247

Note: All measurements taken using direct reading instruments in the field.
% = percent
in Hg = inches of mercury
OVA = organic vapor analyzer
ppm = parts per million
mS/cm = millisiemans per centimeter
NTU = nephelmetric turbidity units
mg/L = milligrams per liter
^{o}C = degrees Celcius
ORP = oxygen reducing potential
mV = millivolts

4.0 Conclusions and Recommendations

The bioventing and biosparging systems operated the entire 4th quarter without incident. The bioventing system actual blower discharge pressure averaged 28.3 inches of water, compared to the design blower discharge pressure of 40 inches of water. The total air injection flow rate averaged 106 scfm, compared to the design blower flow rate of 80 scfm. The biosparging system actual injection discharge pressure averaged 16 psig, compared to the design injection pressure of 15 psig.

The annual soil screening and sampling event indicated that seven of the fifteen soil boring locations continue to exhibit soil contamination concentrations in excess of either one or both Leachability based on Groundwater Criteria and the Direct Exposure Residential SCTLs. In general, the concentrations of these parameters have decreased from baseline soil sampling event (March 1999) concentrations. However, the TRPH values at soil borings B-41 and B-99 have increased one to two orders of magnitude since the baseline soil sampling event.

Based on the field geochemical testing, biological activity appears to be occurring at the site. The biosparging injection continues to provide sufficient oxygen as indicated by the dissolved oxygen readings being greater than 1 mg/L.

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

5.0 References

ABB Environmental Services, Inc. October 1996. Remedial Action Plan; South Fuel Farm; Naval Air Station Cecil Field, Jacksonville, Florida. October.

Bechtel Environmental, Inc. 1998a. Operation and Maintenance Plan Bioventing and Biosparging System; South Fuel Farm; Naval Air Station Cecil Field, Jacksonville, Florida. July.

Bechtel Environmental, Inc. 1998b. Completion Report for the South Fuel Farm Bioventing and Biosparging Systems; Naval Air Station Cecil Field, Jacksonville, Florida. September.

CH2M HILL Constructors, Inc. 2001. Work Plan Addendum No. 12 Operation and Maintenance of the Remediation Systems at Day Tank 1, South Fuel Farm, and 103rd Street and A Avenue; Naval Air Station Cecil Field, Jacksonville, Florida. April.

Appendix A

Historical Data

TABLE A-1
Historical Soil Analytical Results

Soil Boring Number	Sample Date	Sample Depth (feet bls)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
Direct Exposure Residential [1]			1.1	1100	380	5900	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
B-7	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	84
	09/13/00	N/A	<0.001	<0.001	<0.001	<0.003	<0.002	<0.018	<0.037	<0.037	<0.037	<0.019	<0.003	<0.037	<0.0018	<0.0037	<0.0018	<0.0018	<0.0018	<0.0037	<0.0018	<0.002	<0.0018	<0.0036	<0.003	8
	10/18/01	2	<0.001	<0.001	<0.001	<0.0031	<0.001	<0.597	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
	10/10/02	2	0.00102 J	0.00141 J	0.00325 J	0.0119 =	0.00589 U	0.00884 U	0.0177 U	0.0177 U	0.0353 U	0.00353 U	0.0177 U	0.00353 U	0.0177 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	0.00353 U	9.42 U
B-31	03/22/99	N/A	<0.012	<0.012	<0.012	<0.036	<0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	170
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	0.002	0.0028	0.01	0.01	180
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.604	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.010 J	<0.060	<0.060	<0.060	<18
	10/10/02	3	0.225 U	0.225 U	0.0506 J	0.45 U	0.225 U	0.00863 U	0.0173 U	0.0173 U	0.0345 U	0.00345 U	0.0173 U	0.00345 U	0.0173 U	0.0116 =	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	0.00345 U	8.38 J
B-41	03/22/99	N/A	<0.013	<0.013	<0.013	<0.038	<0.076	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	30
	09/13/00	N/A	<0.55	<0.55	<0.55	24.9	<1.1	3.3	22	14	<2	<1	0.21	<0.2	<0.098	0.88	<0.098	<0.098	<0.098	<0.2	<0.098	<0.099	<0.098	<0.19	<0.2	460
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.579	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<0.058	<17
	10/10/02	4	0.219 U	0.219 U	0.219 U	0.437 U	0.219 U	0.00859 U	0.0172 U	0.0172 U	0.0344 U	0.00344 U	0.0172 U	0.00344 U	0.0172 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	0.00344 U	**1640 =**
B-70	03/22/99	N/A	<0.13	<0.13	<0.13	<0.4	<0.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	830
	09/13/00	N/A	0.0014	<0.001	0.002	0.019	<0.002	<0.021	<0.041	<0.041	0.109	0.094	<0.004	<0.041	<0.0021	0.091	0.148	0.016	0.043	0.014	0.012	0.005	0.0025	<0.004	<0.004	100
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0036	<0.0012	<0.565	<0.056	0.035 J	>0.056	<0.056	<0.056	0.0049 J	<0.056	<0.056	0.0057J	0.0053J	0.008J	0.015J	<0.056	0.007J	0.010J	<0.056	0.016J	64
	10/10/02	4	0.00141 J	0.00104 J	0.00337 J	0.0102 =	0.00495 U	0.151 J	0.0161 U	0.0161 U	0.0322 U	0.00614 J	0.0161 U	0.0222 J	0.0161 U	0.168 J	0.0621 J	0.0554 J	0.0952 J	0.0795 J	0.0747 J	0.0847 J	0.0588 J	0.0616 J	0.0746 J	114 J
B-96	03/22/99	N/A	<0.1	0.25	<0.1	5.8	<.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7600
	09/13/00	N/A	<0.22	<0.22	<0.22	<0.65	<0.43	0.074	0.48	0.58	0.058	0.032	0.11	0.26	0.039	<0.004	<0.002	0.015	0.021	0.02	0.011	0.012	0.0063	0.0087	0.005	1800
	10/18/01	4	0.024	0.017	0.0017	0.0141	<0.0014	0.562	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	0.128	0.016	0.018	0.033	0.015	<0.056	0.014	<0.056	0.016	969
	10/10/02	4	0.269 U	0.269 U	0.269 U	0.538 U	0.269 U	0.0404 U	0.0807 U	0.0807 U	0.161 U	0.0161 U	0.0807 U	0.0161 U	0.0807 U	0.0274 J	0.142 J	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	0.0161 U	2710 J
B-99	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	570
	09/13/00	N/A	0.001	<0.001	0.0018	0.0017	<0.002	<0.02	<0.04	0.073	<0.04	0.14	<0.004	<0.04	0.004	0.052	0.028	0.0076	0.02	0.025	0.0057	0.016	0.013	0.019	0.024	<8.1
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0012	<0.593	<0.059	<0.059	<0.059	<0.059	<0.059	0.024J	<0.059	0.046J	0.015J	0.027J	0.040J	0.040J	0.017J	0.032J	0.024J	<0.059	0.029J	36
	10/10/02	4	0.00157 J	0.00156 J	0.00516 =	0.0154 =	0.00482 U	0.0235 J	0.0171 U	0.0171 U	0.0342 U	0.009 J	0.0171 U	0.0396 J	0.0171 U	0.223 J	0.147 J	0.165 J	0.117 J	0.0805 J	0.0357 J	0.0713 J	0.0351 J	0.00342 U	0.0418 J	33.7 J
B-101	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	320
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.021	<0.042	<0.042	<0.042	<0.021	<0.004	<0.042	<0.0021	<0.0042	<0.0021	<0.0021	0.0046	0.0066	0.0029	0.006	0.009	0.0084	0.018	<8.4
	10/18/01	4	0.00088	<0.001	0.0012	<0.003	<0.001	<0.572	0.206	1.09	1.25	0.17	0.321	0.912	<0.057	1.84	0.201	<0.057	1.14	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	7510
	10/10/02	4	0.268 U	0.268 U	0.268 U	0.537 U	0.268 U	0.805 U	1.61 U	1.61 U	3.22 U	0.322 U	1.61 U	1.03 =	1.61 U	2.49 =	6.77 =	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	0.322 U	**13100 =**
B-104	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	28
	09/13/00	N/A	<0.001	<0.001	0.0018	0.0084	<0.002	<0.021	<0.041	<0.041	<0.041	<0.021	<0.004	<0.041	<0.0021	<0.0041	<0.0021	<0.0021	<0.0021	<0.0041	<0.0021	<0.002	<0.0021	<0.0041	<0.004	<8.3
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0035	<0.0012	<0.569	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	0.0049J	0.014J	<0.057	<0.057	0.011J	<0.057	<0.057	<0.057	<0.057	0.0041J	80
	10/10/02	4	0.00169 J	0.00268 J	0.0107 =	0.029 =	0.00584 U	0.00864 U	0.0173 U	0.0173 U	0.0346 U	0.00346 U	0.0173 U	0.00346 U	0.0173 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	0.00346 U	10.3 =
B-106	03/22/99	N/A	<0.12	<0.12	<0.12	<0.37	<0.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3200
	09/13/00	N/A	<0.001	0.001	0.002	0.0145	<0.002	<0.19	2.4	<0.38	<0.38	0.47	<0.038	<0.38	<0.019	0.93	2.8	0.62	0.89	0.97	0.62	0.68	0.31	0.34	0.5	1000
	10/18/01	4	<0.0011	<0.0011	<0.0011	<0.0033	<0.0011	<0.550	<0.055	<0.055	<0.055	<0.055	<0.055	0.023J	<0.055	<0.055	0.019J	0.023J	0.034J	0.037J	<0.055	0.040J	0.038J	<0.055	0.040J	37
	10/10/02	4	0.00479 U	0.00132 J	0.00494 =	0.0122 =	0.00479 U	0.125 =	0.0167 U	0.0167 U	0.0334 U	0.00334 U	0.0167 U	0.00334 U	0.0167 U	0.0781 =	0.0409 =	0.00334 U	0.0303 =	0.0309 =	0.00334 U	0.0197 =	0.00334 U	0.00334 U	0.0395 =	483 =
B-110	03/22/99	N/A	<0.13	<0.13	<0.13	<0.39	<0.78	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000
	09/13/00	N/A	<0.097	<0.097	<0.097	<0.286	<0.2	<0.97	<1.9	<1.9	4.3	3.7	0.23	<1.9	<0.097	<0.19	<0.097	<0.097	1.6	<0.19	<0.097	<0.098	<0.097	<0.19	<0.19	530
	10/18/01	4	<0.001	<0.001	<0.001	<0.003	<0.001	<0.575	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<17
	10/10/02	4	0.248 U	0.248 U	0.248 U	0.495 U	0.248 U	0.00857 U	0.0171 U	0.0171 U	0.0343 U	0.00343 U	0.0171 U	0.00343 U	0.0171 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	0.00343 U	9.14 U
B-137	03/22/99	N/A	<0.1	<0.1	<0.1	0.52	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1200
	09/13/00	N/A	<0.0013	<0.0013	<0.0013	0.008	<0.002	<0.02	<0.04	<0.04	<0.04	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.0039	<0.004	8
	10/18/01	2	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.563	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<0.056	<17
	10/10/02	4	0.00161 J	0.00108 J	0.00414 J	0.0111 =	0.00497 U	0.00811 U	0.0162 U	0.0162 U	0.0325 U	0.00325 U	0.0162 U	0.00325 U	0.0162 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	0.00325 U	127 =

TABLE A-1
Historical Soil Analytical Results

Soil Boring Number	Sample Date	Sample Depth (feet bls)	Benzene	Ethyl Benzene	Toluene	Xylene	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH (mg/kg)
Direct Exposure Residential [1]			1.1	1100	380	5900	3200	40	68	80	1100	1900	2200	2000	18000	2900	2200	1.4	140	1.4	15	0.1	1.5	0.1	2300	340
Leachability from GW Criteria [1]			0.007	0.6	0.5	0.2	0.2	1.7	2.2	6.1	27	2.1	160	250	2500	1200	880	3.2	77	10	25	8	28	30	32000	340
B-146	03/22/99	N/A	<0.1	<0.1	<0.1	<0.31	<0.63	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1000
	09/13/00	N/A	<0.0013	<0.0013	0.002	0.006	<0.002	0.028	<0.041	<0.041	<0.041	<0.021	0.005	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	<0.002	0.008	<0.002	<0.004	<0.004	13
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.541	<0.054	<0.054	<0.054	<0.054	0.012	<0.054	<0.054	0.185	0.029	<0.054	0.184	0.0099	0.017	0.0059	0.0092	<0.054	<0.054	1640
	10/10/02	4	0.239 U	0.616 =	0.239 U	3.22 =	0.239 U	0.392 U	0.783 U	0.783 U	1.57 U	0.157 U	0.783 U	0.157 U	0.783 U	1.04 =	3.18 =	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	0.157 U	4180 =
B-158	03/22/99	N/A	<0.12	<0.12	<0.12	<0.36	<0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9.5
	09/13/00	N/A	0.0016	0.003	0.002	0.0342	<0.002	0.13	<0.041	<0.041	<0.041	<0.021	0.01	<0.041	<0.002	<0.0041	<0.002	<0.002	<0.002	<0.0041	0.0028	0.004	<0.002	0.005	0.01	<8.2
	10/18/01	4	<0.0012	<0.0012	<0.0012	<0.0037	<0.0012	<0.596	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	<18
	10/10/02	2	0.00341 J	0.00268 J	0.00622 =	0.0252 =	0.00189 J	0.00825 U	0.0165 U	0.0165 U	0.033 U	0.0033 U	0.0165 U	0.0033 U	0.0165 U	0.0129 =	0.0033 U	0.0033 U	0.0033 U	0.00766 =	0.00396 =	0.00678 =	0.0033 U	0.0033 U	0.0202 =	5.9 J
B-167	03/22/99	N/A	<0.12	0.45	0.29	2.8	<0.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4200
	09/13/00	N/A	<0.0011	<0.0011	<0.0011	<0.0031	<0.002	<0.02	<0.04	<0.04	<0.040	<0.02	<0.004	<0.04	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.004	<0.004	<8.1
	10/18/01	4	0.029	3.84	0.019	5.334	0.0034	10.3	22.3	26.3	<0.573	0.188	1.71	2.37	<0.573	2.07	<0.573	<0.573	0.351	<0.573	<0.573	<0.573	<0.573	<0.573	<0.573	11400
	10/10/02	4	0.219 U	0.219 U	0.219 U	0.439 U	0.219 U	9.05 =	21 =	34.9 =	3.34 U	0.334 U	1.67 U	0.334 U	1.67 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	0.334 U	13800 =
B-189	03/22/99	N/A	<0.11	<0.11	<0.11	<0.33	<0.67	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<7.4
	09/13/00	N/A	0.0018	<0.0011	0.0038	0.0061	<0.002	<0.02	<0.041	<0.041	<0.041	<0.021	0.006	<0.041	<0.002	<0.0041	0.004	<0.002	<0.002	<0.0041	0.0021	0.004	0.002	<0.004	0.005	<8.2
	10/18/01	4	<0.0012	0.00062J	<0.0012	0.0042	<0.0012	<0.570	<0.057	0.013J	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	18
	10/10/02	2	0.285 U	0.285 U	0.285 U	0.57 U	0.285 U	0.00953 U	0.0191 U	0.0191 U	0.0381 U	0.00381 U	0.0191 U	0.00381 U	0.0191 U	0.014 =	0.00932 =	0.00381 U	0.00381 U	0.00593 =	0.00606 =	0.00686 =	0.00381 U	0.00381 U	0.00381 U	10.2 U

All values reported in milligram per kilogram (mg/kg)
1 - Ch 62-777 F.A.C Soil cleanup Target Level (SCTLs) reported in mg/kg
bgs - below ground surface
U - result was not detected
N/A - not available
< - less than
NS - not sampled for compound
J = concentration is less than the reporting limit but greater than the method detection limit
Shaded values indicate the compounds that exceed the SCTLs
Sampling events dated prior to 10/18/01 were performed by previous CONTRACTOR.

Appendix B

Laboratory Analytical Report
(provided on CD)

Former NAS Cecil Field

PREPARED FOR: Former NAS Cecil Field / South Fuel Farm-Annual Soil Sampling

FINAL REVEIWER: Camden Robinson/ Associate Project Chemist/CCI

COPIES: Mike Halil /Project Manager/CCI

DATE: December 4, 2003

SUBJECT: Quality Assessment for Samples Collected November 5, 2003

This quality assurance memorandum is based upon a review of analytical data generated for soil samples and associated field quality control samples collected November 5, 2003 at the Former Naval Air Station in Jacksonville, Florida. The samples were collected as a part of the South Fuel Farm Annual Soil sampling event conducted at the site. Table 1-1 presents a summary of the CCI sample identification numbers, dates of collection, sample matrices, and the analyses performed.

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

- Benzene, Etylbenzene, Toluene, Total Xylenes, and MTBE (BTEX + MTBE) by SW-846 method 8021B
- Polyaromatic nuclear hydrocarbons (PAH) by HPLC method 8310,
- Total petroleum hydrocarbons (TPH) by method FL-PRO

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

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86-B7-S-1105-03	20311062401	11/05/2003	[1], [2], [3]
86-B31-S-1105-03	20311062402	11/05/2003	[1], [2], [3]
86-B41-S-1105-03	20311062403	11/05/2003	[1], [2], [3]
86-B70-S-1105-03	20311062404	11/05/2003	[1], [2], [3]
86-B96-S-1105-03	20311062405	11/05/2003	[1], [2], [3]
86-B99-S-1105-03	20311062406	11/05/2003	[1], [2], [3]
86-B101-S-1105-03	20311062407	11/05/2003	[1], [2], [3]

Sample Number	Lab Sample ID	Date Sampled	Analysis Required
86-B104-S-1105-03	20311062408	11/05/2003	[1], [2], [3]
86-B106-S-1105-03	20311062409	11/05/2003	[1], [2], [3]
86-B110-S-1105-03	20311062410	11/05/2003	[1], [2], [3]
86-B137-S-1105-03	20311062411	11/05/2003	[1], [2], [3]
86-B146-S-1105-03	20311062412	11/05/2003	[1], [2], [3]
86-B158-S-1105-03	20311062413	11/05/2003	[1], [2], [3]
86-B167-S-1105-03	20311062414	11/05/2003	[1], [2], [3]
86-B189-S-1105-03	20311062415	11/05/2003	[1], [2], [3]
*86-DUP1-S-1010-02	20311062418	11/05/2003	[1], [2], [3]
**86-DUP2-S-1010-02	20311062419	11/05/2003	[1], [2], [3]
86-EB1-W-1105-03	20311062420	11/05/2003	[1], [2], [3]
86-EB2-W-1105-03	20311062421	11/05/2003	[1], [2], [3]
86-TB1-W-1010-02	20311062422	11/05/2003	[1]
86-TB2-W-1010-02	20311062423	11/05/2003	[1]

ANALYSES PERFORMED CODES:

[1] –Benzene, Ethylbenzene, Toluene, Total Xylenes, and MTBE (BTEX + MTBE) by method SW846 8021B,
[2] –Polyaromatic nuclear hydrocarbons (PAH) by HPLC method 8310,
[3] – Total Petroleum Hydrocarbons (TPH) by method FL-PRO
* *86-DUP1-S-1010-02 blind field duplicate of 86-B96-S-1105-03*
** *86-DUP2-S-1010-02 blind field duplicate of 86-B167-S-1105-03,*

Data for the analyses were reviewed for adherence to the specified analytical protocols in accordance with CCI Sampling Analysis Plan. All analysis results have been validated or qualified according to general guidance provided in the " National Functional Guidelines for Organic and Inorganic Data Review," EPA 540/OR-99/008, October 1999 and EPA 540/R-94/013, February 1994. Additionally, the data were evaluated for adherence to the Department of Defense (DOD) Quality Systems Manual-Version 2 June 2002.

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

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

General Data Qualifiers

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

Organic Data Qualifiers

Positive results for volatile organic compounds toluene reported in samples listed are considered estimated due to the levels at which this compounds were present in the associated method blank. This has been indicated by placing a "B" qualifier next to the quantitative results for toluene in the samples listed below on the data summary tables.

Compound	Affected Samples
Toluene	86-B70-S-1105-03, 86-B99-S-1105-03, 86-B106-S-1105-03, 86-B137-S-1105-03

The positive result reported for FL-PRO analysis in sample 86-B101-S-1105-03 should be considered a bias high quantitative estimate and may be lower than reported. The associated recoveries for the client specific matrix spike (MS) and matrix spike duplicate (MSD) samples were above the established quality control (QC) limit for this analyte. The bias high recoveries for this compound indicate the possible presence of matrix interferences in samples of similar matrix. This has been indicated by placing a "J" qualifier next to the FL-PRO result for sample 86-B101-S-1105-03 on the data summary tables.

The samples presented below were analyzed or re-analyzed at dilutions for the volatile organic analysis. These dilutions were required to prevent saturation of the instrument and to allow quantitation of the compounds within the linear range of the calibration curve. Positive results for these compounds in the samples below have been reported from the diluted analyses. All other results and quantitation limits have been reported on the sample report summary from the initial analysis. However, higher quantitation limits have resulted for specific volatile organic compounds, which were not detected, in these samples. This should be noted when assessing these samples for the qualitative absence of specific volatile organic compounds.

Sample ID	Analysis	Dilution Factor
86-B41-S-1105-03	BTEX + MTBE	50x
86-B96-S-1105-03	BTEX + MTBE	50x
86-DUP1-S-1010-02	BTEX + MTBE	50x
86-B70-S-1105-03	PAH	20x
86-B96-S-1105-03	PAH	20x
86-B101-S-1105-03	PAH	5x
86-DUP1-S-1010-02	PAH	20x
86-B41-S-1105-03	FL-PRO	10x
86-B99-S-1105-03	FL-PRO	5x
86-DUP1-S-1010-02	FL-PRO	5x

Samples 86-B96-S-1105-03 and 86-B167-S-1105-03 and their blind field duplicate samples 86-DUP1-S-1010-02 and 86-DUP2-S-1010-02 were submitted to the laboratory to evaluate sampling and analytical precision for those compounds determined to be confidently detected. All compounds met CCI's blind duplicate precision criteria of 30% for soil samples relative percent difference (RPD) for volatile organic analyses and 40% soil samples relative percent difference (RPD) for semivolatile organics analyses with the exception of ethylbenzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, phenanthrene, pyrene, naphthalene, 1-methylnaphthalene, 2-methlynaphthalene, and fl-pro. A "J" qualifier was appended to these compounds for the native samples listed below to indicate that the reported value should be considered quantitative estimates due to the field duplicate RPD exceedances. The RPD was not calculated for the compounds that were not detected in both samples.

Compound	Affected Samples
Ethylbenzene	86-B96-S-1105-03
Benzo(a)anthracene	86-B96-S-1105-03
Benzo(a)pyrene	86-B96-S-1105-03 and 86-B167-S-1105-03
Benzo(b)fluoranthene	86-B96-S-1105-03 and 86-B167-S-1105-03
Benzo(g,h,i)perylene	86-B96-S-1105-03
Benzo(k)fluoranthene	86-B96-S-1105-03 and 86-B167-S-1105-03

Compound	Affected Samples
Dibenzo(a,h)anthracene	86-B96-S-1105-03
Indeno(1,2,3-cd)pyrene	86-B96-S-1105-03
Phenanthrene	86-B96-S-1105-03
Pyrene	86-B96-S-1105-03
Naphthalene	86-B96-S-1105-03
1-methylnaphthalene	86-B96-S-1105-03
2-methlynaphthalene	86-B96-S-1105-03
FL-PRO	86-B96-S-1105-03

Summary

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

Attachment I

VALID QUALIFIERS

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

QUALIFICATION CODE REFERENCE

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
MB	Presumed contamination from preparation (method) blank.	Presumed contamination from preparation (method) blank or calibration blank.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
G	Result is over the calibration range. Not other acceptable result was provided.	Result is over the calibration range. Not other acceptable result was provided.
E	Not applicable	Duplicate showed poor agreement.
Z	Duplicates RPD showed poor agreement.	Duplicates RPD showed poor agreement
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D was not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination from trip blank.	Not applicable.
+	False positive—reported compound was not present.	Not applicable.
-	False negative—compound was present but not reported.	Not applicable.
F	Presumed contamination from FB or ER.	Presumed contamination from FB or ER
$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Poor Digestion Spike recovery was not within control limits.
*#	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the subsection where a description of the	Unusual problems found with the data that have been described in Section 2, "Data Validation Findings." The number following the asterisk (*) will indicate the subsection where a description of the problem can be

	problem can be found.	found.
T/D	Not applicable	Total metals results reported were less than the dissolved metals result.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B7-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.99 (g/ml) g

Lab Sample ID: 20311062401

Level: (low/med) LOW

Lab File ID: 2031107P/S6828

% Moisture: not dec. 14

Date Collected: 11/05/03 Time: 1525

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2017

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	4.86	U	0.101	4.86
100-41-4	Ethylbenzene	4.86	U	0.201	4.86
108-88-3	Toluene	4.86	U	0.534	4.86
1330-20-7	Xylene (total)	9.71	U	0.556	9.71
1634-04-4	tert-Butyl methyl ether (MTBE)	4.86	U	0.072	4.86

C.12

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B31-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.44 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 11

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062402

Lab File ID: 2031107P/S6829

Date Collected: 11/05/03 Time: 1600

Date Received: 11/06/03

Date Analyzed: 11/07/03 Time: 2039

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.18	U	0.108	5.18
100-41-4	Ethylbenzene	5.18	U	0.214	5.18
108-88-3	Toluene	5.18	U	0.569	5.18
1330-20-7	Xylene (total)	10.4	U	0.592	10.4
1634-04-4	tert-Butyl methyl ether (MTBE)	5.18	U	0.077	5.18

C.R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B41-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 6.98 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 15

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

Instrument ID: MSV2

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062403

Lab File ID: 2031110/T0404

Date Collected: 11/05/03 Time: 1540

Date Received: 11/06/03

Date Analyzed: 11/10/03 Time: 1059

Dilution Factor: 50 Analyst: RJO

Prep Batch: Analytical Batch: 265163

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	212	U	4.41	212
100-41-4	Ethylbenzene	212	U	8.79	212
108-88-3	Toluene	212	U	23.3	212
1330-20-7	Xylene (total)	1560		24.3	424
1634-04-4	tert-Butyl methyl ether (MTBE)	212	U	3.14	212

C.L

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B70-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.58 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 9.

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062404

Lab File ID: 2031107P/S6831

Date Collected: 11/05/03 Time: 1510

Date Received: 11/06/03

Date Analyzed: 11/07/03 Time: 2123

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.47		0.103	4.96
100-41-4	Ethylbenzene	1.36	J	0.205	4.96
108-88-3	Toluene	17.5	B	0.546	4.96
1330-20-7	Xylene (total)	16.4		0.568	9.93
1634-04-4	tert-Butyl methyl ether (MTBE)	4.96	U	0.073	4.96

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B96-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 4.75 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 5.

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

Instrument ID: MSV2

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062405

Lab File ID: 2031110/T0405

Date Collected: 11/05/03 Time: 1400

Date Received: 11/06/03

Date Analyzed: 11/10/03 Time: 1124

Dilution Factor: 50 Analyst: RJO

Prep Batch: Analytical Batch: 265163

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	278	U	5.78	278
100-41-4	Ethylbenzene	57.4	J	11.5	278
108-88-3	Toluene	278	U	30.6	278
1330-20-7	Xylene (total)	556	U	31.8	556
1634-04-4	tert-Butyl methyl ether (MTBE)	278	U	4.11	278

C.L

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B99-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.55 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 12

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062406

Lab File ID: 2031107P/S6833

Date Collected: 11/05/03 Time: 1455

Date Received: 11/06/03

Date Analyzed: 11/07/03 Time: 2208

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.17	U	0.107	5.17
100-41-4	Ethylbenzene	1.88	J	0.214	5.17
108-88-3	Toluene	1.30	~~J~~ B	0.568	5.17
1330-20-7	Xylene (total)	8.94	J	0.591	10.3
1634-04-4	tert-Butyl methyl ether (MTBE)	5.17	U	0.076	5.17

MB

C. R

FORM I VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B101-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.23 (g/ml) g

Lab Sample ID: 20311062407

Level: (low/med) LOW

Lab File ID: 2031108/S6857

% Moisture: not dec. 18

Date Collected: 11/05/03 Time: 1435

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1149

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.86	U	0.122	5.86
100-41-4	Ethylbenzene	5.86	U	0.243	5.86
108-88-3	Toluene	5.86	U	0.645	5.86
1330-20-7	Xylene (total)	11.7	U	0.670	11.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.86	U	0.087	5.86

C.L

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B104-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 20311062408

Level: (low/med) LOW

Lab File ID: 2031107P/S6835

% Moisture: not dec. 11

Date Collected: 11/05/03 Time: 1350

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2252

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.48	U	0.114	5.48
100-41-4	Ethylbenzene	5.48	U	0.227	5.48
108-88-3	Toluene	5.48	U	0.603	5.48
1330-20-7	Xylene (total)	1.65	J	0.627	11.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.48	U	0.081	5.48

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B106-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.29 (g/ml) g

Lab Sample ID: 20311062409

Level: (low/med) LOW

Lab File ID: 2031107P/S6836

% Moisture: not dec. 9.

Date Collected: 11/05/03 Time: 1415

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2314

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.22	U	0.109	5.22
100-41-4	Ethylbenzene	5.22	U	0.216	5.22
108-88-3	Toluene	3.49	~~J~~ B	0.574	5.22
1330-20-7	Xylene (total)	1.51	J	0.597	10.4
1634-04-4	tert-Butyl methyl ether (MTBE)	5.22	U	0.077	5.22

MB

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B110-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.11 (g/ml) g

Lab Sample ID: 20311062410

Level: (low/med) LOW

Lab File ID: 2031107P/S6837

% Moisture: not dec. 6.

Date Collected: 11/05/03 Time: 1325

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2336

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.23	U	0.109	5.23
100-41-4	Ethylbenzene	5.23	U	0.217	5.23
108-88-3	Toluene	5.23	U	0.576	5.23
1330-20-7	Xylene (total)	10.5	U	0.599	10.5
1634-04-4	tert-Butyl methyl ether (MTBE)	5.23	U	0.077	5.23

C.R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B137-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.18 (g/ml) g

Lab Sample ID: 20311062411

Level: (low/med) LOW

Lab File ID: 2031107P/S6838

% Moisture: not dec. 9.

Date Collected: 11/05/03 Time: 1335

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2358

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	1.20	J	0.111	5.33
100-41-4	Ethylbenzene	5.33	U	0.221	5.33
108-88-3	Toluene	2.26	J. B	0.586	5.33
1330-20-7	Xylene (total)	3.37	J	0.610	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.33	U	0.079	5.33

mB

C. R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B146-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.19 (g/ml) g

Lab Sample ID: 20311062412

Level: (low/med) LOW

Lab File ID: 2031108/S6862

% Moisture: not dec. 6.

Date Collected: 11/05/03 Time: 1305

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1340

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.14	U	0.107	5.14
100-41-4	Ethylbenzene	5.14	U	0.213	5.14
108-88-3	Toluene	5.14	U	0.566	5.14
1330-20-7	Xylene (total)	10.3	U	0.588	10.3
1634-04-4	tert-Butyl methyl ether (MTBE)	5.14	U	0.076	5.14

C R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B158-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.09 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 8.

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062413

Lab File ID: 2031107P/S6840

Date Collected: 11/05/03 Time: 1255

Date Received: 11/06/03

Date Analyzed: 11/08/03 Time: 0043

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.37	U	0.112	5.37
100-41-4	Ethylbenzene	1.08	J	0.222	5.37
108-88-3	Toluene	5.37	U	0.591	5.37
1330-20-7	Xylene (total)	2.33	J	0.615	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.37	U	0.080	5.37

0.R

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B167-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.23 (g/ml) g

Lab Sample ID: 20311062414

Level: (low/med) LOW

Lab File ID: 2031107P/S6841

% Moisture: not dec. 4.

Date Collected: 11/05/03 Time: 1315

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 0105

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.01	U	0.104	5.01
100-41-4	Ethylbenzene	5.01	U	0.207	5.01
108-88-3	Toluene	5.01	U	0.551	5.01
1330-20-7	Xylene (total)	10.0	U	0.573	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.01	U	0.074	5.01

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B189-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Level: (low/med) LOW

% Moisture: not dec. 14

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062415

Lab File ID: 2031107P/S6824

Date Collected: 11/05/03 Time: 1245

Date Received: 11/06/03

Date Analyzed: 11/07/03 Time: 1849

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.83	U	0.121	5.83
100-41-4	Ethylbenzene	5.83	U	0.241	5.83
108-88-3	Toluene	5.83	U	0.641	5.83
1330-20-7	Xylene (total)	11.7	U	0.667	11.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.83	U	0.086	5.83

C.R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP1-S-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 4.67 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 5.

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

Instrument ID: MSV2

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062418

Lab File ID: 2031110/T0407

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Analyzed: 11/10/03 Time: 1212

Dilution Factor: 50 Analyst: RJO

Prep Batch: Analytical Batch: 265163

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	282	U	5.86	282
100-41-4	Ethylbenzene	100	J	11.7	282
108-88-3	Toluene	282	U	31.0	282
1330-20-7	Xylene (total)	564	U	32.2	564
1634-04-4	tert-Butyl methyl ether (MTBE)	282	U	4.17	282

Z

C. R

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP2-S-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.18 (g/ml) g

Level: (low/med) LOW

% Moisture: not dec. 4.

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

Instrument ID: MSV0

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062419

Lab File ID: 2031107P/S6843

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Analyzed: 11/08/03 Time: 0149

Dilution Factor: 1 Analyst: KRV

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.06	U	0.105	5.06
100-41-4	Ethylbenzene	5.06	U	0.210	5.06
108-88-3	Toluene	5.06	U	0.557	5.06
1330-20-7	Xylene (total)	10.1	U	0.579	10.1
1634-04-4	tert-Butyl methyl ether (MTBE)	5.06	U	0.075	5.06

C.R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB1-W-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Level: (low/med) LOW

% Moisture: not dec.

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

Instrument ID: MSV1

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062420

Lab File ID: 2031109/S4913

Date Collected: 11/05/03 Time: 1230

Date Received: 11/06/03

Date Analyzed: 11/09/03 Time: 1140

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 265120

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB2-W-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Level: (low/med) LOW

% Moisture: not dec.

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

Instrument ID: MSV1

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062421

Lab File ID: 2031109/S4914

Date Collected: 11/05/03 Time: 1615

Date Received: 11/06/03

Date Analyzed: 11/09/03 Time: 1204

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 265120

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

C.R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

086-TB1-W-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Level: (low/med) LOW

% Moisture: not dec.

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

Instrument ID: MSV1

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062422

Lab File ID: 2031109/S4918

Date Collected: Time:

Date Received: 11/06/03

Date Analyzed: 11/09/03 Time: 1337

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 265120

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

C.R

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

086-TB2-W-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Level: (low/med) LOW

% Moisture: not dec.

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

Instrument ID: MSV1

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Lab Sample ID: 20311062423

Lab File ID: 2031109/S4919

Date Collected: Time:

Date Received: 11/06/03

Date Analyzed: 11/09/03 Time: 1401

Dilution Factor: 1 Analyst: RSP

Prep Batch: Analytical Batch: 265120

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

C. R

FORM I VOA

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: 14 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: 265228 Analytical Batch: 265256

Sample ID 86-B7-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062401

Date Collected 11/05/03 Time: 1525

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1229

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.7	U	10.5	38.7
91-57-6	2-Methylnaphthalene	38.7	U	11.8	38.7
83-32-9	Acenaphthene	38.7	U	11.3	38.7
208-96-8	Acenaphthylene	38.7	U	4.33	38.7
120-12-7	Anthracene	3.84	U	0.548	3.84
56-55-3	Benzo(a)anthracene	3.84	U	1.38	3.84
50-32-8	Benzo(a)pyrene	3.84	U	1.29	3.84
205-99-2	Benzo(b)fluoranthene	3.84	U	0.838	3.84
191-24-2	Benzo(g,h,i)perylene	3.84	U	0.431	3.84
207-08-9	Benzo(k)fluoranthene	3.84	U	0.983	3.84
218-01-9	Chrysene	3.84	U	1.10	3.84
53-70-3	Dibenz(a,h)anthracene	3.84	U	1.03	3.84
206-44-0	Fluoranthene	3.84	U	1.07	3.84
86-73-7	Fluorene	19.4	U	4.08	19.4
193-39-5	Indeno(1,2,3-cd)pyrene	9.66	U	1.06	9.66
91-20-3	Naphthalene	9.66	U	3.58	9.66
85-01-8	Phenanthrene	3.84	U	1.05	3.84
129-00-0	Pyrene	3.84	U	0.554	3.84

C. R

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B31-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062402

Date Collected 11/05/03 Time: 1600

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1236

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	37.5	U	10.2	37.5
91-57-6	2-Methylnaphthalene	37.5	U	11.4	37.5
83-32-9	Acenaphthene	37.5	U	10.9	37.5
208-96-8	Acenaphthylene	37.5	U	4.19	37.5
120-12-7	Anthracene	3.72	U	0.531	3.72
56-55-3	Benzo(a)anthracene	3.72	U	1.34	3.72
50-32-8	Benzo(a)pyrene	3.72	U	1.25	3.72
205-99-2	Benzo(b)fluoranthene	3.72	U	0.811	3.72
191-24-2	Benzo(g,h,i)perylene	3.72	U	0.417	3.72
207-08-9	Benzo(k)fluoranthene	3.72	U	0.952	3.72
218-01-9	Chrysene	3.72	U	1.06	3.72
53-70-3	Dibenz(a,h)anthracene	3.72	U	0.993	3.72
206-44-0	Fluoranthene	3.72	U	1.03	3.72
86-73-7	Fluorene	18.8	U	3.95	18.8
193-39-5	Indeno(1,2,3-cd)pyrene	9.35	U	1.03	9.35
91-20-3	Naphthalene	9.35	U	3.47	9.35
85-01-8	Phenanthrene	3.72	U	1.01	3.72
129-00-0	Pyrene	3.72	U	0.536	3.72

C.R

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: 15 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: 265228 Analytical Batch: 265256

Sample ID 86-B41-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062403

Date Collected 11/05/03 Time: 1540

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1242

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	66.0		10.7	39.5
91-57-6	2-Methylnaphthalene	39.5	U	12.0	39.5
83-32-9	Acenaphthene	39.5	U	11.5	39.5
208-96-8	Acenaphthylene	39.5	U	4.41	39.5
120-12-7	Anthracene	3.91	U	0.558	3.91
56-55-3	Benzo(a)anthracene	3.91	U	1.41	3.91
50-32-8	Benzo(a)pyrene	1.46	J	1.32	3.91
205-99-2	Benzo(b)fluoranthene	1.47	J	0.853	3.91
191-24-2	Benzo(g,h,i)perylene	3.91	U	0.438	3.91
207-08-9	Benzo(k)fluoranthene	3.91	U	1.00	3.91
218-01-9	Chrysene	3.91	U	1.12	3.91
53-70-3	Dibenz(a,h)anthracene	3.91	U	1.05	3.91
206-44-0	Fluoranthene	3.91	U	1.09	3.91
86-73-7	Fluorene	19.8	U	4.16	19.8
193-39-5	Indeno(1,2,3-cd)pyrene	9.84	U	1.08	9.84
91-20-3	Naphthalene	9.84	U	3.65	9.84
85-01-8	Phenanthrene	3.91	U	1.07	3.91
129-00-0	Pyrene	3.91	U	0.564	3.91

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: 9. 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: 265228 Analytical Batch: 265256

Sample ID 86-B70-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062404

Date Collected 11/05/03 Time: 1510

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1632

Dilution Factor: 20 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	7770		201	738
91-57-6	2-Methylnaphthalene	9700		224	738
83-32-9	Acenaphthene	738	U	215	738
208-96-8	Acenaphthylene	738	U	82.4	738
120-12-7	Anthracene	73.1	U	10.4	73.1
56-55-3	Benzo(a)anthracene	73.1	U	26.4	73.1
50-32-8	Benzo(a)pyrene	73.1	U	24.6	73.1
205-99-2	Benzo(b)fluoranthene	73.1	U	16.0	73.1
191-24-2	Benzo(g,h,i)perylene	73.1	U	8.20	73.1
207-08-9	Benzo(k)fluoranthene	73.1	U	18.7	73.1
218-01-9	Chrysene	73.1	U	20.9	73.1
53-70-3	Dibenz(a,h)anthracene	73.1	U	19.5	73.1
206-44-0	Fluoranthene	73.1	U	20.3	73.1
86-73-7	Fluorene	370	U	77.8	370
193-39-5	Indeno(1,2,3-cd)pyrene	184	U	20.2	184
91-20-3	Naphthalene	1970		68.2	184
85-01-8	Phenanthrene	73.1	U	19.9	73.1
129-00-0	Pyrene	134		10.5	73.1

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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: 5. 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: 265228 Analytical Batch: 265256

Sample ID 86-B96-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062405

Date Collected 11/05/03 Time: 1400

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1639

Dilution Factor: 20 Analyst: JDT

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: 031112/H000571

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	703	U	191	703	
91-57-6	2-Methylnaphthalene	703	U	213	703	
83-32-9	Acenaphthene	703	U	205	703	
208-96-8	Acenaphthylene	703	U	78.6	703	
120-12-7	Anthracene	69.7	U	9.95	69.7	
56-55-3	Benzo(a)anthracene	172	J	25.1	69.7	Z
50-32-8	Benzo(a)pyrene	287	J	23.4	69.7	Z
205-99-2	Benzo(b)fluoranthene	292	J	15.2	69.7	Z
191-24-2	Benzo(g,h,i)perylene	582	J	7.82	69.7	Z
207-08-9	Benzo(k)fluoranthene	125	J	17.9	69.7	Z
218-01-9	Chrysene	69.7	U	19.9	69.7	
53-70-3	Dibenz(a,h)anthracene	114	J	18.6	69.7	Z
206-44-0	Fluoranthene	69.7	U	19.4	69.7	
86-73-7	Fluorene	353	U	74.1	353	
193-39-5	Indeno(1,2,3-cd)pyrene	307	J	19.2	175	Z
91-20-3	Naphthalene	175	U	65.1	175	
85-01-8	Phenanthrene	73.0	J	19.0	69.7	Z
129-00-0	Pyrene	318	J	10.1	69.7	Z

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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: 12 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: 265228 Analytical Batch: 265256

Sample ID 86-B99-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062406

Date Collected 11/05/03 Time: 1455

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1303

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.2	U	10.4	38.2
91-57-6	2-Methylnaphthalene	38.2	U	11.6	38.2
83-32-9	Acenaphthene	38.2	U	11.1	38.2
208-96-8	Acenaphthylene	38.2	U	4.27	38.2
120-12-7	Anthracene	3.78	U	0.540	3.78
56-55-3	Benzo(a)anthracene	3.78	U	1.36	3.78
50-32-8	Benzo(a)pyrene	3.78	U	1.27	3.78
205-99-2	Benzo(b)fluoranthene	3.78	U	0.826	3.78
191-24-2	Benzo(g,h,i)perylene	3.78	U	0.424	3.78
207-08-9	Benzo(k)fluoranthene	3.78	U	0.969	3.78
218-01-9	Chrysene	3.78	U	1.08	3.78
53-70-3	Dibenz(a,h)anthracene	3.78	U	1.01	3.78
206-44-0	Fluoranthene	3.78	U	1.05	3.78
86-73-7	Fluorene	19.1	U	4.02	19.1
193-39-5	Indeno(1,2,3-cd)pyrene	9.52	U	1.04	9.52
91-20-3	Naphthalene	135		3.53	9.52
85-01-8	Phenanthrene	25.9		1.03	3.78
129-00-0	Pyrene	3.78	U	0.546	3.78

C.R

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: 18 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: 265228 Analytical Batch: 265256

Sample ID 86-B101-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062407

Date Collected 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1702

Dilution Factor: 5 Analyst: JDT

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: 031112/H000572

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	204	U	55.5	204
91-57-6	2-Methylnaphthalene	204	U	61.9	204
83-32-9	Acenaphthene	204	U	59.6	204
208-96-8	Acenaphthylene	204	U	22.8	204
120-12-7	Anthracene	20.2	U	2.89	20.2
56-55-3	Benzo(a)anthracene	30.4		7.29	20.2
50-32-8	Benzo(a)pyrene	20.2	U	6.80	20.2
205-99-2	Benzo(b)fluoranthene	20.2	U	4.41	20.2
191-24-2	Benzo(g,h,i)perylene	20.2	U	2.27	20.2
207-08-9	Benzo(k)fluoranthene	20.2	U	5.18	20.2
218-01-9	Chrysene	20.2	U	5.78	20.2
53-70-3	Dibenz(a,h)anthracene	20.2	U	5.41	20.2
206-44-0	Fluoranthene	20.2	U	5.61	20.2
86-73-7	Fluorene	102	U	21.5	102
193-39-5	Indeno(1,2,3-cd)pyrene	50.9	U	5.58	50.9
91-20-3	Naphthalene	50.9	U	18.9	50.9
85-01-8	Phenanthrene	24.1		5.52	20.2
129-00-0	Pyrene	20.2	U	2.92	20.2

C. R

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B104-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062408

Date Collected 11/05/03 Time: 1350

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1412

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	37.7	U	10.2	37.7
91-57-6	2-Methylnaphthalene	37.7	U	11.4	37.7
83-32-9	Acenaphthene	37.7	U	11.0	37.7
208-96-8	Acenaphthylene	37.7	U	4.21	37.7
120-12-7	Anthracene	3.73	U	0.533	3.73
56-55-3	Benzo(a)anthracene	3.73	U	1.35	3.73
50-32-8	Benzo(a)pyrene	3.73	U	1.26	3.73
205-99-2	Benzo(b)fluoranthene	3.73	U	0.814	3.73
191-24-2	Benzo(g,h,i)perylene	3.73	U	0.419	3.73
207-08-9	Benzo(k)fluoranthene	3.73	U	0.956	3.73
218-01-9	Chrysene	3.73	U	1.07	3.73
53-70-3	Dibenz(a,h)anthracene	3.73	U	0.998	3.73
206-44-0	Fluoranthene	3.73	U	1.04	3.73
86-73-7	Fluorene	18.9	U	3.97	18.9
193-39-5	Indeno(1,2,3-cd)pyrene	9.39	U	1.03	9.39
91-20-3	Naphthalene	9.39	U	3.48	9.39
85-01-8	Phenanthrene	3.73	U	1.02	3.73
129-00-0	Pyrene	3.73	U	0.538	3.73

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: 9. 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: 265228 Analytical Batch: 265256

Sample ID 86-B106-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062409

Date Collected 11/05/03 Time: 1415

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1436

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.8	U	10.0	36.8
91-57-6	2-Methylnaphthalene	36.8	U	11.2	36.8
83-32-9	Acenaphthene	36.8	U	10.7	36.8
208-96-8	Acenaphthylene	36.8	U	4.11	36.8
120-12-7	Anthracene	3.65	U	0.520	3.65
56-55-3	Benzo(a)anthracene	3.65	U	1.31	3.65
50-32-8	Benzo(a)pyrene	4.97		1.23	3.65
205-99-2	Benzo(b)fluoranthene	13.4		0.796	3.65
191-24-2	Benzo(g,h,i)perylene	3.65	U	0.409	3.65
207-08-9	Benzo(k)fluoranthene	10.7		0.934	3.65
218-01-9	Chrysene	28.2		1.04	3.65
53-70-3	Dibenz(a,h)anthracene	3.65	U	0.975	3.65
206-44-0	Fluoranthene	5.65		1.01	3.65
86-73-7	Fluorene	18.5	U	3.88	18.5
193-39-5	Indeno(1,2,3-cd)pyrene	9.17	U	1.01	9.17
91-20-3	Naphthalene	9.17	U	3.40	9.17
85-01-8	Phenanthrene	3.65	U	0.995	3.65
129-00-0	Pyrene	3.65	U	0.526	3.65

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B110-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062410

Date Collected 11/05/03 Time: 1325

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1443

Dilution Factor: 1 Analyst: JDT

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: 031112/H000570

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	35.6	U	9.69	35.6
91-57-6	2-Methylnaphthalene	35.6	U	10.8	35.6
83-32-9	Acenaphthene	35.6	U	10.4	35.6
208-96-8	Acenaphthylene	35.6	U	3.98	35.6
120-12-7	Anthracene	3.53	U	0.504	3.53
56-55-3	Benzo(a)anthracene	3.53	U	1.27	3.53
50-32-8	Benzo(a)pyrene	3.53	U	1.19	3.53
205-99-2	Benzo(b)fluoranthene	3.53	U	0.770	3.53
191-24-2	Benzo(g,h,i)perylene	3.53	U	0.396	3.53
207-08-9	Benzo(k)fluoranthene	3.53	U	0.904	3.53
218-01-9	Chrysene	3.53	U	1.01	3.53
53-70-3	Dibenz(a,h)anthracene	3.53	U	0.944	3.53
206-44-0	Fluoranthene	3.53	U	0.980	3.53
86-73-7	Fluorene	17.9	U	3.76	17.9
193-39-5	Indeno(1,2,3-cd)pyrene	8.88	U	0.975	8.88
91-20-3	Naphthalene	8.88	U	3.30	8.88
85-01-8	Phenanthrene	3.53	U	0.963	3.53
129-00-0	Pyrene	3.53	U	0.509	3.53

C

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: 9. 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-B137-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062411

Date Collected 11/05/03 Time: 1335

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1450

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.8	U	10.0	36.8
91-57-6	2-Methylnaphthalene	36.8	U	11.2	36.8
83-32-9	Acenaphthene	36.8	U	10.7	36.8
208-96-8	Acenaphthylene	36.8	U	4.11	36.8
120-12-7	Anthracene	3.64	U	0.520	3.64
56-55-3	Benzo(a)anthracene	3.64	U	1.31	3.64
50-32-8	Benzo(a)pyrene	3.64	U	1.23	3.64
205-99-2	Benzo(b)fluoranthene	3.64	U	0.795	3.64
191-24-2	Benzo(g,h,i)perylene	3.64	U	0.409	3.64
207-08-9	Benzo(k)fluoranthene	3.64	U	0.933	3.64
218-01-9	Chrysene	3.64	U	1.04	3.64
53-70-3	Dibenz(a,h)anthracene	3.64	U	0.974	3.64
206-44-0	Fluoranthene	3.64	U	1.01	3.64
86-73-7	Fluorene	18.4	U	3.88	18.4
193-39-5	Indeno(1,2,3-cd)pyrene	9.17	U	1.01	9.17
91-20-3	Naphthalene	9.17	U	3.40	9.17
85-01-8	Phenanthrene	15.5		0.994	3.64
129-00-0	Pyrene	3.64	U	0.526	3.64

c. f

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B146-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062412

Date Collected 11/05/03 Time: 1305

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1457

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	35.6	U	9.67	35.6
91-57-6	2-Methylnaphthalene	35.6	U	10.8	35.6
83-32-9	Acenaphthene	35.6	U	10.4	35.6
208-96-8	Acenaphthylene	35.6	U	3.97	35.6
120-12-7	Anthracene	3.52	U	0.503	3.52
56-55-3	Benzo(a)anthracene	3.52	U	1.27	3.52
50-32-8	Benzo(a)pyrene	3.52	U	1.19	3.52
205-99-2	Benzo(b)fluoranthene	3.52	U	0.769	3.52
191-24-2	Benzo(g,h,i)perylene	3.52	U	0.395	3.52
207-08-9	Benzo(k)fluoranthene	3.52	U	0.902	3.52
218-01-9	Chrysene	3.52	U	1.01	3.52
53-70-3	Dibenz(a,h)anthracene	3.52	U	0.942	3.52
206-44-0	Fluoranthene	3.52	U	0.978	3.52
86-73-7	Fluorene	17.8	U	3.75	17.8
193-39-5	Indeno(1,2,3-cd)pyrene	8.86	U	0.973	8.86
91-20-3	Naphthalene	8.86	U	3.29	8.86
85-01-8	Phenanthrene	3.52	U	0.961	3.52
129-00-0	Pyrene	3.52	U	0.508	3.52

c.f

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B158-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062413

Date Collected 11/05/03 Time: 1255

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1504

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.4	U	9.91	36.4
91-57-6	2-Methylnaphthalene	36.4	U	11.0	36.4
83-32-9	Acenaphthene	36.4	U	10.6	36.4
208-96-8	Acenaphthylene	36.4	U	4.07	36.4
120-12-7	Anthracene	3.61	U	0.515	3.61
56-55-3	Benzo(a)anthracene	55.2		1.30	3.61
50-32-8	Benzo(a)pyrene	84.0		1.21	3.61
205-99-2	Benzo(b)fluoranthene	3.61	U	0.788	3.61
191-24-2	Benzo(g,h,i)perylene	80.2		0.405	3.61
207-08-9	Benzo(k)fluoranthene	55.8		0.924	3.61
218-01-9	Chrysene	97.6		1.03	3.61
53-70-3	Dibenz(a,h)anthracene	66.9		0.965	3.61
206-44-0	Fluoranthene	3.61	U	1.00	3.61
86-73-7	Fluorene	18.3	U	3.84	18.3
193-39-5	Indeno(1,2,3-cd)pyrene	62.0		0.996	9.08
91-20-3	Naphthalene	9.08	U	3.37	9.08
85-01-8	Phenanthrene	3.61	U	0.984	3.61
129-00-0	Pyrene	108		0.521	3.61

C. F

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: 4. 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: 265228 Analytical Batch: 265256

Sample ID 86-B167-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062414

Date Collected 11/05/03 Time: 1315

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1511

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	34.9	U	9.49	34.9	
91-57-6	2-Methylnaphthalene	34.9	U	10.6	34.9	
83-32-9	Acenaphthene	34.9	U	10.2	34.9	
208-96-8	Acenaphthylene	34.9	U	3.90	34.9	
120-12-7	Anthracene	3.46	U	0.493	3.46	
56-55-3	Benzo(a)anthracene	3.46	U	1.25	3.46	
50-32-8	Benzo(a)pyrene	1.50	J	1.16	3.46	Z
205-99-2	Benzo(b)fluoranthene	1.94	J	0.754	3.46	Z
191-24-2	Benzo(g,h,i)perylene	3.46	U	0.387	3.46	
207-08-9	Benzo(k)fluoranthene	2.32	J	0.885	3.46	Z
218-01-9	Chrysene	3.46	U	0.988	3.46	
53-70-3	Dibenz(a,h)anthracene	3.46	U	0.924	3.46	
206-44-0	Fluoranthene	3.46	U	0.959	3.46	
86-73-7	Fluorene	17.5	U	3.68	17.5	
193-39-5	Indeno(1,2,3-cd)pyrene	8.69	U	0.954	8.69	
91-20-3	Naphthalene	8.69	U	3.23	8.69	
85-01-8	Phenanthrene	3.46	U	0.943	3.46	
129-00-0	Pyrene	3.46	U	0.499	3.46	

C.R

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: 14 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: 265228 Analytical Batch: 265256

Sample ID 86-B189-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062415

Date Collected 11/05/03 Time: 1245

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1532

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.8	U	10.6	38.8
91-57-6	2-Methylnaphthalene	38.8	U	11.8	38.8
83-32-9	Acenaphthene	38.8	U	11.3	38.8
208-96-8	Acenaphthylene	38.8	U	4.33	38.8
120-12-7	Anthracene	3.85	U	0.549	3.85
56-55-3	Benzo(a)anthracene	3.85	U	1.39	3.85
50-32-8	Benzo(a)pyrene	3.85	U	1.29	3.85
205-99-2	Benzo(b)fluoranthene	3.87		0.839	3.85
191-24-2	Benzo(g,h,i)perylene	3.85	U	0.431	3.85
207-08-9	Benzo(k)fluoranthene	3.85	U	0.985	3.85
218-01-9	Chrysene	3.85	U	1.10	3.85
53-70-3	Dibenz(a,h)anthracene	3.85	U	1.03	3.85
206-44-0	Fluoranthene	3.85	U	1.07	3.85
86-73-7	Fluorene	19.5	U	4.09	19.5
193-39-5	Indeno(1,2,3-cd)pyrene	9.67	U	1.06	9.67
91-20-3	Naphthalene	9.67	U	3.59	9.67
85-01-8	Phenanthrene	3.85	U	1.05	3.85
129-00-0	Pyrene	3.85	U	0.555	3.85

C P

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: 5. 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: 265228 Analytical Batch: 265256

Sample ID 86-DUP1-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062418

Date Collected 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1723

Dilution Factor: 20 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000572

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL	
90-12-0	1-Methylnaphthalene	9420	J	191	701	Z
91-57-6	2-Methylnaphthalene	11700	J	213	701	Z
83-32-9	Acenaphthene	701	U	205	701	
208-96-8	Acenaphthylene	701	U	78.3	701	
120-12-7	Anthracene	69.5	U	9.92	69.5	
56-55-3	Benzo(a)anthracene	69.5	U	25.1	69.5	
50-32-8	Benzo(a)pyrene	69.5	U	23.4	69.5	
205-99-2	Benzo(b)fluoranthene	69.5	U	15.2	69.5	
191-24-2	Benzo(g,h,i)perylene	69.5	U	7.79	69.5	
207-08-9	Benzo(k)fluoranthene	69.5	U	17.8	69.5	
218-01-9	Chrysene	69.5	U	19.9	69.5	
53-70-3	Dibenz(a,h)anthracene	69.5	U	18.6	69.5	
206-44-0	Fluoranthene	69.5	U	19.3	69.5	
86-73-7	Fluorene	352	U	73.9	352	
193-39-5	Indeno(1,2,3-cd)pyrene	175	U	19.2	175	
91-20-3	Naphthalene	3050	J	64.9	175	Z
85-01-8	Phenanthrene	69.5	U	19.0	69.5	
129-00-0	Pyrene	184	J	10.0	69.5	Z

C.R

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: 4. 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: 265228 Analytical Batch: 265256

Sample ID 86-DUP2-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062419

Date Collected 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1525

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	34.9	U	9.50	34.9
91-57-6	2-Methylnaphthalene	34.9	U	10.6	34.9
83-32-9	Acenaphthene	34.9	U	10.2	34.9
208-96-8	Acenaphthylene	34.9	U	3.90	34.9
120-12-7	Anthracene	3.46	U	0.494	3.46
56-55-3	Benzo(a)anthracene	3.46	U	1.25	3.46
50-32-8	Benzo(a)pyrene	3.46	U	1.16	3.46
205-99-2	Benzo(b)fluoranthene	3.46	U	0.755	3.46
191-24-2	Benzo(g,h,i)perylene	3.46	U	0.388	3.46
207-08-9	Benzo(k)fluoranthene	3.46	U	0.886	3.46
218-01-9	Chrysene	3.46	U	0.989	3.46
53-70-3	Dibenz(a,h)anthracene	3.46	U	0.925	3.46
206-44-0	Fluoranthene	3.46	U	0.961	3.46
86-73-7	Fluorene	17.5	U	3.68	17.5
193-39-5	Indeno(1,2,3-cd)pyrene	8.71	U	0.956	8.71
91-20-3	Naphthalene	8.71	U	3.23	8.71
85-01-8	Phenanthrene	3.46	U	0.944	3.46
129-00-0	Pyrene	3.46	U	0.499	3.46

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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: 265029 Analytical Batch: 265125

Sample ID 86-EB1-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062420

Date Collected 11/05/03 Time: 1230

Date Received: 11/06/03

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1545

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		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

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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: 265029 Analytical Batch: 265125

Sample ID 86-EB2-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062421

Date Collected 11/05/03 Time: 1615

Date Received: 11/06/03

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1551

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		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

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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: 14 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: 265229 Analytical Batch: 265529

Sample ID: 86-B7-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062401

Date Collected: 11/05/03 Time: 1525

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1519

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	127000		5820	9310

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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: 265229 Analytical Batch: 265529

Sample ID: 86-B31-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062402

Date Collected: 11/05/03 Time: 1600

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1221

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	9010	U	5630	9010

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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: 15 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B41-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062403

Date Collected: 11/05/03 Time: 1540

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1319

Dilution Factor: 10 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	10400000		59300	94800

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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: 9. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B70-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062404

Date Collected: 11/05/03 Time: 1510

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1814

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	93500		5540	8860

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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: 5. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B96-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062405

Date Collected: 11/05/03 Time: 1400

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1911

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	32500	J	5280	8450	Z

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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: 12 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B99-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062406

Date Collected: 11/05/03 Time: 1455

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1514

Dilution Factor: 5 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	4860000		28700	45900

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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: 18 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: 265229 Analytical Batch: 265529

Sample ID: 86-B101-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062407

Date Collected: 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 2259

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	965000	J	6130	9810

Q

Q.R

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: 265229 Analytical Batch: 265529

Sample ID: 86-B104-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062408

Date Collected: 11/05/03 Time: 1350

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 2355

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	37700		5660	9050

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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: 9. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B106-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062409

Date Collected: 11/05/03 Time: 1415

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0052

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	401000		5530	8840

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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: 6. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B110-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062410

Date Collected: 11/05/03 Time: 1325

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0148

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	95100		5350	8560

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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: 9. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B137-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062411

Date Collected: 11/05/03 Time: 1335

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0245

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	22900		5520	8830

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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: 6. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B146-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062412

Date Collected: 11/05/03 Time: 1305

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0341

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	365000		5340	8540

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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: 8. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B158-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062413

Date Collected: 11/05/03 Time: 1255

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0437

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	19600		5470	8750

C.R

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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: 4. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B167-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062414

Date Collected: 11/05/03 Time: 1315

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0533

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8380	U	5240	8380

C.R

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: 14 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-B189-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062415

Date Collected: 11/05/03 Time: 1245

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0629

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	11000		5830	9320

C.R

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: 5. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-DUP1-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062418

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1611

Dilution Factor: 5 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
FLPRO-01	Petroleum Hydrocarbons	287000	J	26300	42100	Z

C.R

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: 4. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-DUP2-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062419

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1124

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8390	U	5240	8390

CA

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: 265030 Analytical Batch: 265362

CONCENTRATION UNITS: ug/L

Sample ID: 86-EB1-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062420

Date Collected: 11/05/03 Time: 1230

Date Received: 11/06/03

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 1952

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

C.R

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: 265030 Analytical Batch: 265362

CONCENTRATION UNITS: ug/L

Sample ID: 86-EB2-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062421

Date Collected: 11/05/03 Time: 1615

Date Received: 11/06/03

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 2049

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

C.F

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062401	86-B7-S-1105-03	Solid	11/05/2003 15:25	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.9	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062402	86-B31-S-1105-03	Solid	11/05/2003 16:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-006	Total Solids	88.8	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062403	86-B41-S-1105-03	Solid	11/05/2003 15:40	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	84.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062404	86-B70-S-1105-03	Solid	11/05/2003 15:10	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

0.12

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062405	86-B96-S-1105-03	Solid	11/05/2003 14:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	94.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062406	86-B99-S-1105-03	Solid	11/05/2003 14:55	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	87.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C. R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062407	86-B101-S-1105-03	Solid	11/05/2003 14:35	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	81.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

c R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062408	86-B104-S-1105-03	Solid	11/05/2003 13:50	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	88.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C. L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062409	86-B106-S-1105-03	Solid	11/05/2003 14:15	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

O. L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062410	86-B110-S-1105-03	Solid	11/05/2003 13:25	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	93.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C. R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062411	86-B137-S-1105-03	Solid	11/05/2003 13:35	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062412	86-B146-S-1105-03	Solid	11/05/2003 13:05	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	93.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062413	86-B158-S-1105-03	Solid	11/05/2003 12:55	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	91.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C. R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062414	86-B167-S-1105-03	Solid	11/05/2003 13:15	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062415	86-B189-S-1105-03	Solid	11/05/2003 12:45	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.8	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C-R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062418	86-DUP1-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.0	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062419	86-DUP2-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

C.R

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
171591-011 page 1 of 2

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 NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	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.):
South Fuel Farm - Annual Soil Sampling	CTO 086	6442	Bonnie Hogue / 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:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	904-777-4182	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)	BETX by 8021B	PAHs + 1- and 2-Methylnapthalene by 8310. TRPH by FLO-PRO.								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86-B7-S-1105-03	boring B-7 @ 2 ft	soil	11/05/03	15:25	III/C	14	4	1								Grab	OVA = 41 ppm	1116-01
2	86-B31-S-1105-03	boring B-31 @ 2 ft	soil	11/05/03	16:00	III/C	14	4	1								Grab	OVA = 5 ppm	-02
3	86-B41-S-1105-03	boring B-41 @ 4 ft	soil	11/05/03	15:40	III/C	14	4	1								Grab	OVA = 670 ppm	-03
4	86-B70-S-1105-03	boring B-70 @ 2 ft	soil	11/05/03	15:10	III/C	14	4	1								Grab	OVA = 0.4 ppm	-04
5	86-B96-S-1105-03	boring B-96 @ 4 ft	soil	11/05/03	14:00	III/C	14	4	1								Grab	OVA = 20,692 ppm	-05
6	86-B99-S-1105-03	boring B-99 @ 4 ft	soil	11/05/03	14:55	III/C	14	4	1								Grab	OVA = 886 ppm	-06
7	86-B101-S-1105-03	boring B-101 @ 4 ft	soil	11/05/03	14:35	III/C	14	4	1								Grab	OVA = 13 ppm MS/MSD	-07
8	86-B104-S-1105-03	boring B-104 @ 4 ft	soil	11/05/03	13:50	III/C	14	4	1								Grab	OVA = 5 ppm	-08
9	86-B106-S-1105-03	boring B-106 @ 4 ft	soil	11/05/03	14:15	III/C	14	4	1								Grab	OVA = 51 ppm	-09
10	86-B110-S-1105-03	boring B-110 @ 2 ft	soil	11/05/03	13:25	III/C	14	4	1								Grab	OVA = 1.6 ppm	-10
11	86-B137-S-1105-03	boring B-137 @ 2 ft	soil	11/05/03	13:35	III/C	14	4	1								Grab	OVA = 0 ppm	-11

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	2°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	11/5/2003	18:00	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	11/5/2003	18:00
Printed Name and Signature:			Printed Name and Signature:		
Fed Ex	11-6-03	0925	Daria Hayden	11-6-03	0925

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Form CCI001, Rev 02/00

006000

Chain Hill / 171591 / Site [illegible]

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
171591-011 page 2 of 2

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 NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	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.):
South Fuel Farm - Annual Soil Sampling	CTO 086	6442	Bonnie Hogue / 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:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	904-777-4182	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)	BETX by 8021B	PAHs + 1- and 2-Methylnapthalene by 8310. TRPH by FLO-PRO.								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
12	86-B146-S-1105-03	boring B-146 @ 4 ft	soil	11/05/03	13:05	III/C	14	4	1								Grab	OVA = 1.7 ppm	1116-12
13	86-B158-S-1105-03	boring B-158 @ 2 ft	soil	11/05/03	12:55	III/C	14	4	1								Grab	OVA = 10 ppm	-13
14	86-B167-S-1105-03	boring B-158 @ 2 ft	soil	11/05/03	13:15	III/C	14	4	1								Grab	OVA = 0.2 ppm	-14
15	86-B189-S-1105-03	boring B-189 @ 4 ft	soil	11/05/03	12:45	III/C	14	4	1								Grab	OVA = 2 ppm	-15
16	86-MS-S-1105-03	Matrix Spike	soil	11/05/03	14:35	III/C	14	4	1								Grab	OVA = 13 ppm	-16
17	86-MSD-S-1105-03	Matrix Spike Dup	soil	11/05/03	14:35	III/C	14	4	1								Grab	OVA = 13 ppm	-17
18	086-DUP1-S-1010-02	Duplicate #1	soil	11/05/03	--	III/C	14	4	1								Grab	--	-18
19	086-DUP2-S-1010-02	Duplicate #2	soil	11/05/03	--	III/C	14	4	1								Grab	--	-19
20	86-EB1-W-1105-03	Pre-Equipment Blank	Wtr	11/05/03	12:30	III/C	14	3	4								Grab	--	-20
21	86-EB2-W-1105-03	Post Equipment Blank	Wtr	11/05/03	16:15	III/C	14	3	4								Grab	--	-21
22	086-TB1-W-1010-02	Trip Blank #1	Wtr	NA	NA	III/C	14	3									Grab	Prepared by Lab	-22
23	086-TB2-W-1010-02	Trip Blank #2	Wtr	NA	NA	III/C	14	3									Grab	Prepared by Lab	-23

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	2°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop R. Dumaop	11/5/2003	18:00	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	11/5/2003	18:00
Printed Name and Signature:					
Fed Ex	11-6-03	0925	Daria Hayden Daria Hayden	11-6-03	0925

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Form CC1001, Rev 02/00

606009

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 11/17/2003

GCAL Report 203110624

Deliver To	CH2M HILL Constructors Inc. 115 Perimeter Center Place Suite 700 Atlanta, GA 30346 770-604-9182 Ext. 614
Attn	Melissa Aycock

Customer CH2M HILL Constructors Inc.

Project CTO 86 Cecil Field - South Fue

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

CASE NARRATIVE

Client: CH2M HILL Constructors Inc. **Report:** 203110624

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 8260 analysis for sample 20311062409 (86-B106-S-1105-03), the internal standard 1,4-dichlorobenzene-d4 was outside of method control limits. However, none of the target analytes for this sample are quantitated off of this internal standard.

In analytical batches 265084 and 265163, no MS/MSD was performed due to insufficient sample volume. The LCS/LCSD is included for review.

Samples 20311062403 (86-B41-S-1105-03), 20311062405 (86-B96-S-1105-03) and 20311062418 (86-DUP1-S-1010-02), had to be diluted due to the presence of non-target background. This dilution is reflected in the elevated reporting limits.

In the SW-846 8260B analysis of sample 129380 (MW-19 (129118MSD)), the recovery for the surrogate 4-Bromofluorobenzene was above the upper control limit. The remaining surrogates were all within control limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the Florida PRO analysis, samples 20311062403 (86-B41-S-1105-03), 20311062406 (86-B99-S-1105-03) and 20311062418 (86-DUP1-S-1010-02) had to be diluted due to compounds that were detected above the calibration range of the instrument.

In prep batch 265229, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

In the analysis of sample 20311062417 (86-MSD-S-1105-03), the surrogate recovery for Nonatriacontane was below QC limits. This surrogate was also low in the MS and the native sample but not out of limits. This can be attributed to the sample matrix.

In the MS/MSD associated with sample 20311062407 (86-B101-S-1105-03), the spike recoveries were above QC limits. This is attributed to the hit in the native sample.

In the analysis of prep batch 265030, the spike recovery for 128903 (LCS) and 128904 (LCSD) was above QC limits. The surrogate recovery for 128903 (LCS) for o-Terphenyl was also above QC limits.

In the analysis of sample 20311062420 (86-EB1-W-1105-03), the surrogate recovery for Nonatriacontane was above QC limits, however there were no hits in this sample.

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

In analytical batch 265125 no MS/MSD was performed due to insufficient sample volume. The LCS/LCSD is included for review.

Samples 20311062404 (86-B70-S-1105-03), 20311062405 (86-B96-S-1105-03) and 20311062418 (86-DUP1-S-1010-02) had to be diluted due to compounds that were detected above the linear range of the calibration. The surrogate recoveries for p-Terphenyl are reported as DO (diluted out), due to the dilution performed on these samples.

In the SW-846 8310 analysis of samples 20311062407 (86-B101-S-1105-03), 20311062416 (86-MS-S-1105-03) and 20311062417 (86-MSD-S-1105-03), due to the presence of non-target background, the samples required dilutions prior to analysis. This dilution is reflected in elevated detection limits.

In prep batch 265228, the MS/MSD exhibited RPD failures, however all compounds were recovered within quality control limits in the LCS/LCSD pair and MS/MSD pair.

In the PNAs analysis for sample 20311062403 (86-B41-S-1105-03), 1-methylnaphthalene was reported from the lower of the two values due to the suspected co-elution of an unknown non-target analyte.

In the PNAs analysis for sample 20311062406 (86-B99-S-1105-03), naphthalene and phenanthrene were reported from the lower of the two values due to the suspected co-elution of unknown non-target analytes.

In the PNAs analysis for sample 20311062409 (86-B106-S-1105-03), fluoranthene, Chrysene, Benzo(k)fluoranthene, and Benzo(a)pyrene were reported from the lower of the two values due to the suspected co-elution of unknown non-target analytes.

In the PNAs analysis for samples 20311062407 (86-B101-S-1105-03) and 20311062411 (86-B137-S-1105-03), phenanthrene was reported from the lower of the two values due to the suspected co-elution of an unknown non-target analyte.

In the PNAs analysis for sample 20311062413 (86-B158-S-1105-03), Benzo(a)anthracene and Indeno(1,2,3-c,d)pyrene were reported from the lower of the two values due to the suspected co-elution of unknown non-target analytes.

In the PNAs analysis for sample 20311062415 (86-B189-S-1105-03), Benzo(b)fluoranthene was reported from the lower of the two values due to the suspected co-elution of an unknown non-target analyte.

In the PNAs analysis for sample 20311062405 (86-B96-S-1105-03), Phenanthrene, Pyrene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-c,d)pyrene were reported from the lower of the two values due to the suspected co-elution of unknown non-target analytes.

In the PNAs analysis for samples 20311062407 (86-B101-S-1105-03), 20311062416 (86-MS-S-1105-03) and 20311062417 (86-MSD-S-1105-03), Fluoranthene and Pyrene were reported from the confirmation analysis due to the suspected co-elution of unknown non-target analytes.

In the PNAs analysis for samples 2031102407 (86-B101-S-1105-03), 20311062409 (86-B106-S-1105-03), 20311062412 (86-B146-S-1105-03), 20311062413 (86-B158-S-1105-03), 20311062416 (86-MS-S-1105-03), and 20311062417 (86-MSD-S-1105-03), the surrogate for p-Terphenyl was reported from the confirmation analysis due to the suspected co-elution of an unknown non-target analyte.

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.

Scott Bailey

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT 203110624

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062401	86-B7-S-1105-03	Solid	11/05/2003 15:25	11/06/2003 09:25
20311062402	86-B31-S-1105-03	Solid	11/05/2003 16:00	11/06/2003 09:25
20311062403	86-B41-S-1105-03	Solid	11/05/2003 15:40	11/06/2003 09:25
20311062404	86-B70-S-1105-03	Solid	11/05/2003 15:10	11/06/2003 09:25
20311062405	86-B96-S-1105-03	Solid	11/05/2003 14:00	11/06/2003 09:25
20311062406	86-B99-S-1105-03	Solid	11/05/2003 14:55	11/06/2003 09:25
20311062407	86-B101-S-1105-03	Solid	11/05/2003 14:35	11/06/2003 09:25
20311062408	86-B104-S-1105-03	Solid	11/05/2003 13:50	11/06/2003 09:25
20311062409	86-B106-S-1105-03	Solid	11/05/2003 14:15	11/06/2003 09:25
20311062410	86-B110-S-1105-03	Solid	11/05/2003 13:25	11/06/2003 09:25
20311062411	86-B137-S-1105-03	Solid	11/05/2003 13:35	11/06/2003 09:25
20311062412	86-B146-S-1105-03	Solid	11/05/2003 13:05	11/06/2003 09:25
20311062413	86-B158-S-1105-03	Solid	11/05/2003 12:55	11/06/2003 09:25
20311062414	86-B167-S-1105-03	Solid	11/05/2003 13:15	11/06/2003 09:25
20311062415	86-B189-S-1105-03	Solid	11/05/2003 12:45	11/06/2003 09:25
20311062416	86-MS-S-1105-03	Solid	11/05/2003 14:35	11/06/2003 09:25
20311062417	86-MSD-S-1105-03	Solid	11/05/2003 14:35	11/06/2003 09:25
20311062418	86-DUP1-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25
20311062419	86-DUP2-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25
20311062420	86-EB1-W-1105-03	Water	11/05/2003 12:30	11/06/2003 09:25
20311062421	86-EB2-W-1105-03	Water	11/05/2003 16:15	11/06/2003 09:25
20311062422	086-TB1-W-1010-02	Water		11/06/2003 09:25
20311062423	086-TB2-W-1010-02	Water		11/06/2003 09:25

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
86-B7-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.99 (g/ml) g

Lab Sample ID: 20311062401

Level: (low/med) LOW

Lab File ID: 2031107P/S6828

% Moisture: not dec. 14

Date Collected: 11/05/03 Time: 1525

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2017

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	4.86	U	0.101	4.86
100-41-4	Ethylbenzene	4.86	U	0.201	4.86
108-88-3	Toluene	4.86	U	0.534	4.86
1330-20-7	Xylene (total)	9.71	U	0.556	9.71
1634-04-4	tert-Butyl methyl ether (MTBE)	4.86	U	0.072	4.86

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B31-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.44 (g/ml) g

Lab Sample ID: 20311062402

Level: (low/med) LOW

Lab File ID: 2031107P/S6829

% Moisture: not dec. 11

Date Collected: 11/05/03 Time: 1600

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2039

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.18	U	0.108	5.18
100-41-4	Ethylbenzene	5.18	U	0.214	5.18
108-88-3	Toluene	5.18	U	0.569	5.18
1330-20-7	Xylene (total)	10.4	U	0.592	10.4
1634-04-4	tert-Butyl methyl ether (MTBE)	5.18	U	0.077	5.18

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B41-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 6.98 (g/ml) g

Lab Sample ID: 20311062403

Level: (low/med) LOW

Lab File ID: 2031110/T0404

% Moisture: not dec. 15

Date Collected: 11/05/03 Time: 1540

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

Date Received: 11/06/03

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 1059

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	212	U	4.41	212
100-41-4	Ethylbenzene	212	U	8.79	212
108-88-3	Toluene	212	U	23.3	212
1330-20-7	Xylene (total)	1560		24.3	424
1634-04-4	tert-Butyl methyl ether (MTBE)	212	U	3.14	212

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B70-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.58 (g/ml) g

Lab Sample ID: 20311062404

Level: (low/med) LOW

Lab File ID: 2031107P/S6831

% Moisture: not dec. 9.

Date Collected: 11/05/03 Time: 1510

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2123

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.47		0.103	4.96
100-41-4	Ethylbenzene	1.36	J	0.205	4.96
108-88-3	Toluene	17.5		0.546	4.96
1330-20-7	Xylene (total)	16.4		0.568	9.93
1634-04-4	tert-Butyl methyl ether (MTBE)	4.96	U	0.073	4.96

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B96-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 4.75 (g/ml) g

Lab Sample ID: 20311062405

Level: (low/med) LOW

Lab File ID: 2031110/T0405

% Moisture: not dec. 5.

Date Collected: 11/05/03 Time: 1400

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

Date Received: 11/06/03

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 1124

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	278	U	5.78	278
100-41-4	Ethylbenzene	57.4	J	11.5	278
108-88-3	Toluene	278	U	30.6	278
1330-20-7	Xylene (total)	556	U	31.8	556
1634-04-4	tert-Butyl methyl ether (MTBE)	278	U	4.11	278

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B99-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.55 (g/ml) g

Lab Sample ID: 20311062406

Level: (low/med) LOW

Lab File ID: 2031107P/S6833

% Moisture: not dec. 12

Date Collected: 11/05/03 Time: 1455

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2208

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.17	U	0.107	5.17
100-41-4	Ethylbenzene	1.88	J	0.214	5.17
108-88-3	Toluene	1.30	J	0.568	5.17
1330-20-7	Xylene (total)	8.94	J	0.591	10.3
1634-04-4	tert-Butyl methyl ether (MTBE)	5.17	U	0.076	5.17

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B101-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.23 (g/ml) g

Lab Sample ID: 20311062407

Level: (low/med) LOW

Lab File ID: 2031108/S6857

% Moisture: not dec. 18

Date Collected: 11/05/03 Time: 1435

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1149

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.86	U	0.122	5.86
100-41-4	Ethylbenzene	5.86	U	0.243	5.86
108-88-3	Toluene	5.86	U	0.645	5.86
1330-20-7	Xylene (total)	11.7	U	0.670	11.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.86	U	0.087	5.86

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B104-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 20311062408

Level: (low/med) LOW

Lab File ID: 2031107P/S6835

% Moisture: not dec. 11

Date Collected: 11/05/03 Time: 1350

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2252

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.48	U	0.114	5.48
100-41-4	Ethylbenzene	5.48	U	0.227	5.48
108-88-3	Toluene	5.48	U	0.603	5.48
1330-20-7	Xylene (total)	1.65	J	0.627	11.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.48	U	0.081	5.48

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B106-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.29 (g/ml) g

Lab Sample ID: 20311062409

Level: (low/med) LOW

Lab File ID: 2031107P/S6836

% Moisture: not dec. 9.

Date Collected: 11/05/03 Time: 1415

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2314

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.22	U	0.109	5.22
100-41-4	Ethylbenzene	5.22	U	0.216	5.22
108-88-3	Toluene	3.49	J	0.574	5.22
1330-20-7	Xylene (total)	1.51	J	0.597	10.4
1634-04-4	tert-Butyl methyl ether (MTBE)	5.22	U	0.077	5.22

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B110-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.11 (g/ml) g

Lab Sample ID: 20311062410

Level: (low/med) LOW

Lab File ID: 2031107P/S6837

% Moisture: not dec. 6.

Date Collected: 11/05/03 Time: 1325

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2336

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.23	U	0.109	5.23
100-41-4	Ethylbenzene	5.23	U	0.217	5.23
108-88-3	Toluene	5.23	U	0.576	5.23
1330-20-7	Xylene (total)	10.5	U	0.599	10.5
1634-04-4	tert-Butyl methyl ether (MTBE)	5.23	U	0.077	5.23

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B137-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.18 (g/ml) g

Lab Sample ID: 20311062411

Level: (low/med) LOW

Lab File ID: 2031107P/S6838

% Moisture: not dec. 9.

Date Collected: 11/05/03 Time: 1335

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 2358

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	1.20	J	0.111	5.33
100-41-4	Ethylbenzene	5.33	U	0.221	5.33
108-88-3	Toluene	2.26	J	0.586	5.33
1330-20-7	Xylene (total)	3.37	J	0.610	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.33	U	0.079	5.33

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B146-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.19 (g/ml) g

Lab Sample ID: 20311062412

Level: (low/med) LOW

Lab File ID: 2031108/S6862

% Moisture: not dec. 6.

Date Collected: 11/05/03 Time: 1305

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1340

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.14	U	0.107	5.14
100-41-4	Ethylbenzene	5.14	U	0.213	5.14
108-88-3	Toluene	5.14	U	0.566	5.14
1330-20-7	Xylene (total)	10.3	U	0.588	10.3
1634-04-4	tert-Butyl methyl ether (MTBE)	5.14	U	0.076	5.14

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B158-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.09 (g/ml) g

Lab Sample ID: 20311062413

Level: (low/med) LOW

Lab File ID: 2031107P/S6840

% Moisture: not dec. 8.

Date Collected: 11/05/03 Time: 1255

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 0043

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.37	U	0.112	5.37
100-41-4	Ethylbenzene	1.08	J	0.222	5.37
108-88-3	Toluene	5.37	U	0.591	5.37
1330-20-7	Xylene (total)	2.33	J	0.615	10.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.37	U	0.080	5.37

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B167-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.23 (g/ml) g

Lab Sample ID: 20311062414

Level: (low/med) LOW

Lab File ID: 2031107P/S6841

% Moisture: not dec. 4.

Date Collected: 11/05/03 Time: 1315

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 0105

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.01	U	0.104	5.01
100-41-4	Ethylbenzene	5.01	U	0.207	5.01
108-88-3	Toluene	5.01	U	0.551	5.01
1330-20-7	Xylene (total)	10.0	U	0.573	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.01	U	0.074	5.01

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-B189-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 20311062415

Level: (low/med) LOW

Lab File ID: 2031107P/S6824

% Moisture: not dec. 14

Date Collected: 11/05/03 Time: 1245

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 1849

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	5.83	U	0.121	5.83
100-41-4	Ethylbenzene	5.83	U	0.241	5.83
108-88-3	Toluene	5.83	U	0.641	5.83
1330-20-7	Xylene (total)	11.7	U	0.667	11.7
1634-04-4	tert-Butyl methyl ether (MTBE)	5.83	U	0.086	5.83

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MS-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.26 (g/ml) g

Lab Sample ID: 20311062416

Level: (low/med) LOW

Lab File ID: 2031108/S6858M

% Moisture: not dec. 14

Date Collected: 11/05/03 Time: 1435

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1211

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	28.3		0.115	5.54
100-41-4	Ethylbenzene	24.5		0.229	5.54
108-88-3	Toluene	25.5		0.609	5.54
1330-20-7	Xylene (total)	76.2		0.634	11.1
1634-04-4	tert-Butyl methyl ether (MTBE)	25.6		0.082	5.54

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-MSD-S-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.39 (g/ml) g

Lab Sample ID: 20311062417

Level: (low/med) LOW

Lab File ID: 2031108/S6859M

% Moisture: not dec. 14

Date Collected: 11/05/03 Time: 1435

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1233

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	28.2		0.112	5.40
100-41-4	Ethylbenzene	24.9		0.224	5.40
108-88-3	Toluene	26.5		0.595	5.40
1330-20-7	Xylene (total)	77.8		0.618	10.8
1634-04-4	tert-Butyl methyl ether (MTBE)	26.5		0.080	5.40

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP1-S-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 4.67 (g/ml) g

Lab Sample ID: 20311062418

Level: (low/med) LOW

Lab File ID: 2031110/T0407

% Moisture: not dec. 5.

Date Collected: 11/05/03 Time: 0000

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

Date Received: 11/06/03

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 1212

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	282	U	5.86	282
100-41-4	Ethylbenzene	100	J	11.7	282
108-88-3	Toluene	282	U	31.0	282
1330-20-7	Xylene (total)	564	U	32.2	564
1634-04-4	tert-Butyl methyl ether (MTBE)	282	U	4.17	282

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-DUP2-S-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

Sample wt/vol: 5.18 (g/ml) g

Lab Sample ID: 20311062419

Level: (low/med) LOW

Lab File ID: 2031107P/S6843

% Moisture: not dec. 4.

Date Collected: 11/05/03 Time: 0000

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

Date Received: 11/06/03

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 0149

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	5.06	U	0.105	5.06
100-41-4	Ethylbenzene	5.06	U	0.210	5.06
108-88-3	Toluene	5.06	U	0.557	5.06
1330-20-7	Xylene (total)	10.1	U	0.579	10.1
1634-04-4	tert-Butyl methyl ether (MTBE)	5.06	U	0.075	5.06

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB1-W-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 20311062420

Level: (low/med) LOW

Lab File ID: 2031109/S4913

% Moisture: not dec.

Date Collected: 11/05/03 Time: 1230

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

Date Received: 11/06/03

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1140

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

86-EB2-W-1105-03

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 20311062421

Level: (low/med) LOW

Lab File ID: 2031109/S4914

% Moisture: not dec.

Date Collected: 11/05/03 Time: 1615

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

Date Received: 11/06/03

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1204

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

086-TB1-W-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 20311062422

Level: (low/med) LOW

Lab File ID: 2031109/S4918

% Moisture: not dec.

Date Collected: Time:

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

Date Received: 11/06/03

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1337

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

086-TB2-W-1010-02

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 20311062423

Level: (low/med) LOW

Lab File ID: 2031109/S4919

% Moisture: not dec.

Date Collected: Time:

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

Date Received: 11/06/03

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1401

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB129292

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129292

Level: (low/med) LOW

Lab File ID: 2031107P/S6823

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 1827

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		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	1.71	J	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
79-01-6	Trichloroethene	5.00	U	0.177	5.00
108-90-7	Chlorobenzene	5.00	U	0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB129315

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129315

Level: (low/med) LOW

Lab File ID: 2031108/S6856

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1126

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*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
79-01-6	Trichloroethene	5.00	U	0.177	5.00
108-90-7	Chlorobenzene	5.00	U	0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB129375

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 129375

Level: (low/med) LOW

Lab File ID: 2031109/S4911

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1054

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	0.500	U	0.100	0.500
100-41-4	Ethylbenzene	5.00	U	0.312	5.00
108-88-3	Toluene	5.00	U	0.152	5.00
1330-20-7	Xylene (total)	10.0	U	0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	5.00	U	0.122	5.00
79-01-6	Trichloroethene	5.00	U	0.323	5.00
108-90-7	Chlorobenzene	5.00	U	0.157	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MB129602

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129602

Level: (low/med) LOW

Lab File ID: 2031110/T0403

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 1024

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

Analytical Method: SW-846 8260

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	250	U	5.20	250
100-41-4	Ethylbenzene	250	U	10.4	250
108-88-3	Toluene	250	U	27.5	250
1330-20-7	Xylene (total)	500	U	28.6	500
1634-04-4	tert-Butyl methyl ether (MTBE)	250	U	3.70	250
79-01-6	Trichloroethene	250	U	8.85	250
108-90-7	Chlorobenzene	250	U	8.25	250

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS129291

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129291

Level: (low/med) LOW

Lab File ID: 2031107P/S6820

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 1720

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
71-43-2	Benzene	26.3		0.104	5.00
100-41-4	Ethylbenzene	22.6		0.207	5.00
108-88-3	Toluene	23.2		0.550	5.00
1330-20-7	Xylene (total)	69.5		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	27.8		0.074	5.00
79-01-6	Trichloroethene	26.0		0.177	5.00
108-90-7	Chlorobenzene	22.9		0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD129313

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129313

Level: (low/med) LOW

Lab File ID: 2031107P/S6821

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/07/03 Time: 1743

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265084

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	26.4		0.104	5.00
100-41-4	Ethylbenzene	22.3		0.207	5.00
108-88-3	Toluene	24.3		0.550	5.00
1330-20-7	Xylene (total)	68.2		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	27.6		0.074	5.00
79-01-6	Trichloroethene	26.4		0.177	5.00
108-90-7	Chlorobenzene	22.5		0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS129314

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129314

Level: (low/med) LOW

Lab File ID: 2031108/S6852

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 0958

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	24.1		0.104	5.00
100-41-4	Ethylbenzene	21.6		0.207	5.00
108-88-3	Toluene	22.2		0.550	5.00
1330-20-7	Xylene (total)	66.7		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	22.0		0.074	5.00
79-01-6	Trichloroethene	25.5		0.177	5.00
108-90-7	Chlorobenzene	22.8		0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD129332

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129332

Level: (low/med) LOW

Lab File ID: 2031108/S6853

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV0

Date Analyzed: 11/08/03 Time: 1020

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: KRV

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265098

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	24.9		0.104	5.00
100-41-4	Ethylbenzene	21.8		0.207	5.00
108-88-3	Toluene	22.8		0.550	5.00
1330-20-7	Xylene (total)	68.1		0.572	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	20.5		0.074	5.00
79-01-6	Trichloroethene	25.6		0.177	5.00
108-90-7	Chlorobenzene	22.6		0.165	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS129374

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Water

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

Lab Sample ID: 129374

Level: (low/med) LOW

Lab File ID: 2031109/S4908

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV1

Date Analyzed: 11/09/03 Time: 1007

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265120

CONCENTRATION UNITS: ug/L

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	27.1		0.100	0.500
100-41-4	Ethylbenzene	24.7		0.312	5.00
108-88-3	Toluene	26.4		0.152	5.00
1330-20-7	Xylene (total)	86.1		0.507	10.0
1634-04-4	tert-Butyl methyl ether (MTBE)	25.9		0.122	5.00
79-01-6	Trichloroethene	24.5		0.323	5.00
108-90-7	Chlorobenzene	26.6		0.157	5.00

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCS129601

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129601

Level: (low/med) LOW

Lab File ID: 2031110/T0400

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 0912

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: CBL

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	1100		5.20	250
100-41-4	Ethylbenzene	1090		10.4	250
108-88-3	Toluene	1100		27.5	250
1330-20-7	Xylene (total)	3280		28.6	500
1634-04-4	tert-Butyl methyl ether (MTBE)	1080		3.70	250
79-01-6	Trichloroethene	1040		8.85	250
108-90-7	Chlorobenzene	1100		8.25	250

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

LCSD129603

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix: (soil/water) Soil

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

Lab Sample ID: 129603

Level: (low/med) LOW

Lab File ID: 2031110/T0401

% Moisture: not dec.

Date Collected: Time:

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

Date Received:

Instrument ID: MSV2

Date Analyzed: 11/10/03 Time: 0936

Soil Extract Volume: (µL

Dilution Factor: 50 Analyst: CBL

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 265163

CONCENTRATION UNITS: ug/kg

Analytical Method: SW-846 8260

CAS NO.	COMPOUND	RESULT		MDL	RL
71-43-2	Benzene	1110		5.20	250
100-41-4	Ethylbenzene	1120		10.4	250
108-88-3	Toluene	1100		27.5	250
1330-20-7	Xylene (total)	3370		28.6	500
1634-04-4	tert-Butyl methyl ether (MTBE)	1050		3.70	250
79-01-6	Trichloroethene	1060		8.85	250
108-90-7	Chlorobenzene	1110		8.25	250

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1 .	86-EB1-W-1105-03	112		104		104		99		0
2 .	86-EB2-W-1105-03	112		104		104		100		0
3 .	086-TB1-W-1010-02	115		108		103		101		0
4 .	086-TB2-W-1010-02	113		107		103		100		0
5 .	LCS129374	114		107		103		100		0
6 .	MB129375	113		102		105		101		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	78 - 115
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	83 - 112
SMC 4	1,2-Dichloroethane-d4	76 - 128

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.: 203110624

Method: SW-846 8260

	SAMPLE NO.	SMC1	#	SMC2	#	SMC3	#	SMC4	#	TOT OUT
1 .	86-B7-S-1105-03	92		105		98		109		0
2 .	86-B31-S-1105-03	91		107		104		104		0
3 .	86-B41-S-1105-03	80		93		104		93		0
4 .	86-B70-S-1105-03	95		103		108		98		0
5 .	86-B96-S-1105-03	90		91		98		90		0
6 .	86-B99-S-1105-03	92		103		102		136		0
7 .	86-B101-S-1105-03	94		105		103		100		0
8 .	86-B104-S-1105-03	96		93		110		83		0
9 .	86-B106-S-1105-03	80		103		116		97		0
10 .	86-B110-S-1105-03	107		105		101		97		0
11 .	86-B137-S-1105-03	88		103		115		96		0
12 .	86-B146-S-1105-03	100		106		104		96		0
13 .	86-B158-S-1105-03	100		107		108		95		0
14 .	86-B167-S-1105-03	106		106		102		96		0
15 .	86-B189-S-1105-03	93		108		99		108		0
16 .	86-MS-S-1105-03	93		106		102		99		0
17 .	86-MSD-S-1105-03	93		105		103		99		0
18 .	86-DUP1-S-1010-02	92		90		100		88		0
19 .	86-DUP2-S-1010-02	106		103		101		93		0
20 .	LCS129291	97		107		98		104		0
21 .	LCS129314	100		102		101		91		0
22 .	LCS129601	89		98		104		100		0
23 .	LCSD129313	94		106		96		104		0
24 .	LCSD129332	100		103		100		92		0
25 .	LCSD129603	87		99		103		100		0
26 .	MB129292	96		108		98		104		0
27 .	MB129315	100		104		101		94		0
28 .	MB129602	92		102		99		98		0

		QC LIMITS
SMC 1	4-Bromofluorobenzene	73 - 138
SMC 2	Dibromofluoromethane	70 - 130
SMC 3	Toluene-d8	65 - 128
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.: 203110624

Analytical Batch: 265120

SAMPLE NO. : *129374*

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*#*	*QC. LIMITS*
Benzene	ug/L	25	0	27.1	108		77 - 119
Chlorobenzene	ug/L	25	0	26.6	106		78 - 116
Ethylbenzene	ug/L	25	0	24.7	99		76 - 118
Toluene	ug/L	25	0	26.4	106		78 - 114
Trichloroethene	ug/L	25	0	24.5	98		67 - 126
Xylene (total)	ug/L	75	0	86.1	115		77 - 119
tert-Butyl methyl ether (MTBE)	ug/L	25	0	25.9	104		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 7 outside limits

3A

WATER VOLATILE MS/MSD RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Matrix Spike - EPA Sample No: MW-19

Analytical Batch: 265120

SAMPLE NO. : 129379

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
Benzene	ug/L	25	0	26.7	107		77 - 119
Chlorobenzene	ug/L	25	0	26.9	108		78 - 116
Ethylbenzene	ug/L	25	0	26.8	107		76 - 118
Toluene	ug/L	25	0	25.9	104		78 - 114
Trichloroethene	ug/L	25	0	21.9	88		67 - 126
Xylene (total)	ug/L	75	0	84.1	112		77 - 119

SAMPLE NO. : 129380

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/L	25	26.5	106		.8		77 - 119	0 - 11
Chlorobenzene	ug/L	25	26.5	106		1		78 - 116	0 - 13
Ethylbenzene	ug/L	25	26.6	106		.7		76 - 118	0 - 30
Toluene	ug/L	25	25.3	101		2		78 - 114	0 - 13
Trichloroethene	ug/L	25	22.1	88		.9		67 - 126	0 - 14
Xylene (total)	ug/L	75	83	111		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 6 outside limits

Spike Recovery: 0 out of 12 outside limits

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8260

Analytical Batch: 265084

SAMPLE NO : 129291

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	25	0	26.3	105		77 - 126
Chlorobenzene	ug/kg	25	0	22.9	92		80 - 121
Ethylbenzene	ug/kg	25	0	22.6	90		80 - 137
Toluene	ug/kg	25	0	23.2	93		76 - 124
Trichloroethene	ug/kg	25	0	26	104		70 - 124
Xylene (total)	ug/kg	75	0	69.5	93		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	27.8	111		70 - 130

SAMPLE NO : 129313

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	25	26.4	106		.4		77 - 126	0 - 21
Chlorobenzene	ug/kg	25	22.5	90		2		80 - 121	0 - 21
Ethylbenzene	ug/kg	25	22.3	89		1		80 - 137	0 - 30
Toluene	ug/kg	25	24.3	97		5		76 - 124	0 - 21
Trichloroethene	ug/kg	25	26.4	106		2		70 - 124	0 - 24
Xylene (total)	ug/kg	75	68.2	91		2		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	25	27.6	110		.7		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 7 outside limits

Spike Recovery: 0 out of 14 outside limits

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8260

Analytical Batch: 265098

SAMPLE NO : 129314

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	25	0	24.1	96		77 - 126
Chlorobenzene	ug/kg	25	0	22.8	91		80 - 121
Ethylbenzene	ug/kg	25	0	21.6	86		80 - 137
Toluene	ug/kg	25	0	22.2	89		76 - 124
Trichloroethene	ug/kg	25	0	25.5	102		70 - 124
Xylene (total)	ug/kg	75	0	66.7	89		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	25	0	22	88		70 - 130

SAMPLE NO : 129332

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	25	24.9	100		3		77 - 126	0 - 21
Chlorobenzene	ug/kg	25	22.6	90		.9		80 - 121	0 - 21
Ethylbenzene	ug/kg	25	21.8	87		.9		80 - 137	0 - 30
Toluene	ug/kg	25	22.8	91		3		76 - 124	0 - 21
Trichloroethene	ug/kg	25	25.6	102		.4		70 - 124	0 - 24
Xylene (total)	ug/kg	75	68.1	91		2		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	25	20.5	82		7		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 7 outside limits

Spike Recovery: 0 out of 14 outside limits

3B

SOIL VOLATILE MS/MSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Contract:

Analytical Batch: 265098

Sample ID 86-B101-S-1105-03

SAS No.: SDG No.: 203110624

Method: SW-846 8260

SAMPLE NO : 20311062416

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	#	QC. LIMITS
Benzene	ug/kg	27.7	0	28.3	102		60 - 133
Chlorobenzene	ug/kg	27.7	0	24.2	88		66 - 142
Ethylbenzene	ug/kg	27.7	0	24.5	88		80 - 137
Toluene	ug/kg	27.7	0	25.5	92		59 - 139
Trichloroethene	ug/kg	27.7	0	27.2	98		62 - 137
Xylene (total)	ug/kg	83.1	0	76.2	92		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	27.7	0	25.6	93		70 - 130

SAMPLE NO : 20311062417

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	27	28.2	104		.4		60 - 133	0 - 21
Chlorobenzene	ug/kg	27	24.8	92		2		66 - 142	0 - 21
Ethylbenzene	ug/kg	27	24.9	92		2		80 - 137	0 - 30
Toluene	ug/kg	27	26.5	98		4		59 - 139	0 - 21
Trichloroethene	ug/kg	27	28.5	106		5		62 - 137	0 - 24
Xylene (total)	ug/kg	81.1	77.8	96		2		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	27	26.5	98		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 7 outside limits

Spike Recovery: 0 out of 14 outside limits

FORM III VOA-2

3B

SOIL VOLATILE LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8260

Analytical Batch: 265163

SAMPLE NO : 129601

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	#	QC. LIMITS
Benzene	ug/kg	1250	0	1100	88		77 - 126
Chlorobenzene	ug/kg	1250	0	1100	88		80 - 121
Ethylbenzene	ug/kg	1250	0	1090	87		80 - 137
Toluene	ug/kg	1250	0	1100	88		76 - 124
Trichloroethene	ug/kg	1250	0	1040	83		70 - 124
Xylene (total)	ug/kg	3750	0	3280	87		79 - 136
tert-Butyl methyl ether (MTBE)	ug/kg	1250	0	1080	86		70 - 130

SAMPLE NO : 129603

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	#	% RPD	#	QC. LIMITS REC	QC. LIMITS RPD
Benzene	ug/kg	1250	1110	89		.9		77 - 126	0 - 21
Chlorobenzene	ug/kg	1250	1110	89		.9		80 - 121	0 - 21
Ethylbenzene	ug/kg	1250	1120	90		3		80 - 137	0 - 30
Toluene	ug/kg	1250	1100	88		0		76 - 124	0 - 21
Trichloroethene	ug/kg	1250	1060	85		2		70 - 124	0 - 24
Xylene (total)	ug/kg	3750	3370	90		3		79 - 136	0 - 30
tert-Butyl methyl ether (MTBE)	ug/kg	1250	1050	84		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 7 outside limits

Spike Recovery: 0 out of 14 outside limits

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB129292

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031107P/S6823

Lab Sample ID: 129292 Date Extracted:

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

Date Analyzed: 11/07/03 Time: 1827

Instrument ID: MSV0 Matrix: Soil

Level: LOW

Heated Purge: Y

Prep Batch: Analytical Batch: 265084

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS129291	129291	2031107P/S6820	11/07/03	1720
2.	LCSD129313	129313	2031107P/S6821	11/07/03	1743
3.	86-B189-S-1105-03	20311062415	2031107P/S6824	11/07/03	1849
4.	86-B7-S-1105-03	20311062401	2031107P/S6828	11/07/03	2017
5.	86-B31-S-1105-03	20311062402	2031107P/S6829	11/07/03	2039
6.	86-B70-S-1105-03	20311062404	2031107P/S6831	11/07/03	2123
7.	86-B99-S-1105-03	20311062406	2031107P/S6833	11/07/03	2208
8.	86-B104-S-1105-03	20311062408	2031107P/S6835	11/07/03	2252
9.	86-B106-S-1105-03	20311062409	2031107P/S6836	11/07/03	2314
10.	86-B110-S-1105-03	20311062410	2031107P/S6837	11/07/03	2336
11.	86-B137-S-1105-03	20311062411	2031107P/S6838	11/07/03	2358
12.	86-B158-S-1105-03	20311062413	2031107P/S6840	11/08/03	0043
13.	86-B167-S-1105-03	20311062414	2031107P/S6841	11/08/03	0105
14.	86-DUP2-S-1010-02	20311062419	2031107P/S6843	11/08/03	0149

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB129315

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031108/S6856

Lab Sample ID: 129315 Date Extracted:

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

Date Analyzed: 11/08/03 Time: 1126

Instrument ID: MSV0 Matrix: Soil

Level: LOW

Heated Purge: Y

Prep Batch: Analytical Batch: 265098

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS129314	129314	2031108/S6852	11/08/03	0958
2.	LCSD129332	129332	2031108/S6853	11/08/03	1020
3.	86-B101-S-1105-03	20311062407	2031108/S6857	11/08/03	1149
4.	86-MS-S-1105-03	20311062416	2031108/S6858M	11/08/03	1211
5.	86-MSD-S-1105-03	20311062417	2031108/S6859M	11/08/03	1233
6.	86-B146-S-1105-03	20311062412	2031108/S6862	11/08/03	1340

FORM IV VOA

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB129375

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.:

SDG No.: 203110624

Lab File ID: 2031109/S4911

Lab Sample ID: 129375

Date Extracted:

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

Date Analyzed: 11/09/03

Time: 1054

Instrument ID: MSV1 Matrix: Water

Heated Purge: N

Level: LOW

Prep Batch:

Analytical Batch: 265120

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS129374	129374	2031109/S4908	11/09/03	1007
2.	86-EB1-W-1105-03	20311062420	2031109/S4913	11/09/03	1140
3.	86-EB2-W-1105-03	20311062421	2031109/S4914	11/09/03	1204
4.	086-TB1-W-1010-02	20311062422	2031109/S4918	11/09/03	1337
5.	086-TB2-W-1010-02	20311062423	2031109/S4919	11/09/03	1401

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

MB129602

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031110/T0403

Lab Sample ID: 129602 Date Extracted:

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

Date Analyzed: 11/10/03 Time: 1024

Instrument ID: MSV2 Matrix: Soil

Heated Purge: Y

Level: LOW

Prep Batch: Analytical Batch: 265163

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1.	LCS129601	129601	2031110/T0400	11/10/03	0912
2.	LCSD129603	129603	2031110/T0401	11/10/03	0936
3.	86-B41-S-1105-03	20311062403	2031110/T0404	11/10/03	1059
4.	86-B96-S-1105-03	20311062405	2031110/T0405	11/10/03	1124
5.	86-DUP1-S-1010-02	20311062418	2031110/T0407	11/10/03	1212

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031107/S6799

BFB Injection Date: 11/07/03

Instrument ID: MSV0

BFB Injection Time: 0808

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

Analytical Batch: 265097

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	27.22	(	)	
75	30.0 - 60.0% of mass 95	52.23	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.89	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	69.62	(	)	
175	5.0 - 9.0% of mass 174	5.13	(7.38	)	1
176	95.0 - 101.0% of mass 174	67.62	(97.14	)	1
177	5.0 - 9.0% of mass 176	4.55	(6.74	)	2

1- Value is % mass 174

2- Value is % mass 176

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1 .	V0STD002	1206	2031107/S6801	11/07/03	0917
2 .	V0STD005	1201	2031107/S6802	11/07/03	0940
3 .	V0STD020	1202	2031107/S6803	11/07/03	1002
4 .	V0STD050	1203	2031107/S6804	11/07/03	1025
5 .	V0STD100	1204	2031107/S6805	11/07/03	1047
6 .	V0STD200	1205	2031107/S6806	11/07/03	1109

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031107P/S6818

BFB Injection Date: 11/07/03

Instrument ID: MSV0

BFB Injection Time: 1612

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

Analytical Batch: 265084

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	15.0 - 40.0% of mass 95	28.85 ( )
75	30.0 - 60.0% of mass 95	54.81 ( )
95	Base Peak, 100% relative abundance	100 ( )
96	5.0 -9.0% of mass 95	7.35 ( )
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 99.9% of mass 95	70.18 ( )
175	5.0 - 9.0% of mass 174	5.47 (7.8) 1
176	95.0 - 101.0% of mass 174	67.6 (96.33) 1
177	5.0 - 9.0% of mass 176	5.06 (7.49) 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	2031107P/S6819	11/07/03	1647
2 .	LCS129291	129291	2031107P/S6820	11/07/03	1720
3 .	LCSD129313	129313	2031107P/S6821	11/07/03	1743
4 .	MB129292	129292	2031107P/S6823	11/07/03	1827
5 .	86-B189-S-1105-03	20311062415	2031107P/S6824	11/07/03	1849
6 .	86-B7-S-1105-03	20311062401	2031107P/S6828	11/07/03	2017
7 .	86-B31-S-1105-03	20311062402	2031107P/S6829	11/07/03	2039
8 .	86-B70-S-1105-03	20311062404	2031107P/S6831	11/07/03	2123
9 .	86-B99-S-1105-03	20311062406	2031107P/S6833	11/07/03	2208
10 .	86-B104-S-1105-03	20311062408	2031107P/S6835	11/07/03	2252
11 .	86-B106-S-1105-03	20311062409	2031107P/S6836	11/07/03	2314
12 .	86-B110-S-1105-03	20311062410	2031107P/S6837	11/07/03	2336
13 .	86-B137-S-1105-03	20311062411	2031107P/S6838	11/07/03	2358
14 .	86-B158-S-1105-03	20311062413	2031107P/S6840	11/08/03	0043
15 .	86-B167-S-1105-03	20311062414	2031107P/S6841	11/08/03	0105
16 .	86-DUP2-S-1010-02	20311062419	2031107P/S6843	11/08/03	0149

FORM V VOA

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031107P/S6818

BFB Injection Date: 11/07/03

Instrument ID: MSV0

BFB Injection Time: 1612

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

Analytical Batch: 265084

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031108/S6848

BFB Injection Date: 11/08/03

Instrument ID: MSV0

BFB Injection Time: 0813

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

Analytical Batch: 265098

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	22.29	(	)	
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	7.21	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	71.32	(	)	
175	5.0 - 9.0% of mass 174	5.2	(7.3	)	1
176	95.0 - 101.0% of mass 174	68.16	(95.57	)	1
177	5.0 - 9.0% of mass 176	4.56	(6.7	)	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	2031108/S6849	11/08/03	0849
2.	LCS129314	129314	2031108/S6852	11/08/03	0958
3.	LCSD129332	129332	2031108/S6853	11/08/03	1020
4.	MB129315	129315	2031108/S6856	11/08/03	1126
5.	86-B101-S-1105-03	20311062407	2031108/S6857	11/08/03	1149
6.	86-MS-S-1105-03	20311062416	2031108/S6858M	11/08/03	1211
7.	86-MSD-S-1105-03	20311062417	2031108/S6859M	11/08/03	1233
8.	86-B146-S-1105-03	20311062412	2031108/S6862	11/08/03	1340

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031105/S4795

BFB Injection Date: 11/05/03

Instrument ID: MSV1

BFB Injection Time: 1319

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

Analytical Batch: 265027

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	19.32	(	)	
75	30.0 - 60.0% of mass 95	49.11	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	7.09	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	64.76	(	)	
175	5.0 - 9.0% of mass 174	5.51	(8.52	)	1
176	95.0 - 101.0% of mass 174	64.13	(99.03	)	1
177	5.0 - 9.0% of mass 176	4.6	(7.18	)	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.	V1STD0.2	1207	2031105/S4797	11/05/03	1414
2.	V1STD0.4	1208	2031105/S4798	11/05/03	1438
3.	V1STD002	1206	2031105/S4799	11/05/03	1501
4.	V1STD005	1201	2031105/S4800	11/05/03	1525
5.	V1STD020	1202	2031105/S4801	11/05/03	1548
6.	V1STD050 PPB	1203	2031105/S4802	11/05/03	1611
7.	V1STD100 PPB	1204	2031105/S4803	11/05/03	1635
8.	V1STD200 PPB	1205	2031105/S4804	11/05/03	1658

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031109/S4904

BFB Injection Date: 11/09/03

Instrument ID: MSV1

BFB Injection Time: 0812

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

Analytical Batch: 265120

m/e	ION ABUNDANCE CRITERIA	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.63 ( )
75	30.0 - 60.0% of mass 95	50.46 ( )
95	Base Peak, 100% relative abundance	100 ( )
96	5.0 -9.0% of mass 95	7.5 ( )
173	Less than 2.0% of mass 174	0 (0) 1
174	50.0 - 99.9% of mass 95	71.13 ( )
175	5.0 - 9.0% of mass 174	5.26 (7.4) 1
176	95.0 - 101.0% of mass 174	70.36 (98.93) 1
177	5.0 - 9.0% of mass 176	4.87 (6.93) 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.	V1STD050	1400	2031109/S4906	11/09/03	0917
2.	LCS129374	129374	2031109/S4908	11/09/03	1007
3.	MB129375	129375	2031109/S4911	11/09/03	1054
4.	86-EB1-W-1105-03	20311062420	2031109/S4913	11/09/03	1140
5.	86-EB2-W-1105-03	20311062421	2031109/S4914	11/09/03	1204
6.	086-TB1-W-1010-02	20311062422	2031109/S4918	11/09/03	1337
7.	086-TB2-W-1010-02	20311062423	2031109/S4919	11/09/03	1401

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031107/T0282

BFB Injection Date: 11/07/03

Instrument ID: MSV2

BFB Injection Time: 1006

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

Analytical Batch: 265091

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	20.46	(	)	
75	30.0 - 60.0% of mass 95	47.11	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.83	(	)	
173	Less than 2.0% of mass 174	0	(0	)	1
174	50.0 - 99.9% of mass 95	84.35	(	)	
175	5.0 - 9.0% of mass 174	5.82	(6.91	)	1
176	95.0 - 101.0% of mass 174	81.93	(97.14	)	1
177	5.0 - 9.0% of mass 176	5.88	(7.18	)	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	2031107/T0284	11/07/03	1108
2 .	V2STD005	1201	2031107/T0285	11/07/03	1132
3 .	V2STD020	1202	2031107/T0286	11/07/03	1157
4 .	V2STD050	1203	2031107/T0287	11/07/03	1221
5 .	V2STD100	1204	2031107/T0288	11/07/03	1246
6 .	V2STD200	1205	2031107/T0289	11/07/03	1310

5A

VOLATILE ORGANICS INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID: 2031110/T0397

BFB Injection Date: 11/10/03

Instrument ID: MSV2

BFB Injection Time: 0732

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

Analytical Batch: 265163

m / e	ION ABUNDANCE CRITERIA	% Relative Abundance			
50	15.0 - 40.0% of mass 95	19.86	(	)	
75	30.0 - 60.0% of mass 95	48.09	(	)	
95	Base Peak, 100% relative abundance	100	(	)	
96	5.0 -9.0% of mass 95	6.64	(	)	
173	Less than 2.0% of mass 174	.28	(.34	)	1
174	50.0 - 99.9% of mass 95	83.87	(	)	
175	5.0 - 9.0% of mass 174	6.46	(7.71	)	1
176	95.0 - 101.0% of mass 174	80.37	(95.83	)	1
177	5.0 - 9.0% of mass 176	5.36	(6.67	)	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 .	V2STD050	1400	2031110/T0399	11/10/03	0829
2 .	LCS129601	129601	2031110/T0400	11/10/03	0912
3 .	LCSD129603	129603	2031110/T0401	11/10/03	0936
4 .	MB129602	129602	2031110/T0403	11/10/03	1024
5 .	86-B41-S-1105-03	20311062403	2031110/T0404	11/10/03	1059
6 .	86-B96-S-1105-03	20311062405	2031110/T0405	11/10/03	1124
7 .	86-DUP1-S-1010-02	20311062418	2031110/T0407	11/10/03	1212

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203110624

Instrument ID: MSV0 | Calibration Date 1 11/07/03 | Time 1: 0917

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 11/07/03 | Time 2: 1109

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

Analytical Batch: 265097

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.281	0.162	0.144	0.123	0.107					0.102	0.994		50	Linear
Acrolein	0.044	0.040	0.043	0.040	0.039					0.041	5.446		50	Averaged
Acrylonitrile	0.103	0.094	0.106	0.097	0.098					0.10	4.945		50	Averaged
Bromochloromethane	0.113	0.118	0.124	0.121	0.120					0.119	3.572		50	Averaged
Bromodichloromethane	0.318	0.324	0.340	0.333	0.334					0.330	2.665		50	Averaged
Bromoform	0.300	0.333	0.344	0.363	0.385					0.345	9.271		50	Averaged
Bromomethane	0.069	0.210	0.187	0.175		0.104				0.179	0.995		50	Linear
Carbon disulfide	0.966	0.961	0.919	0.910	0.840					0.919	5.512		50	Averaged
Carbon tetrachloride	0.280	0.288	0.283	0.305	0.286					0.288	3.370		50	Averaged
Chloroethane	0.060	0.211	0.201	0.201	0.171	0.167				0.176	0.991		50	Linear
m,p-Xylene	1.114	1.222	1.128	1.293	1.256					1.203	6.541		50	Averaged
Chloroform	0.557	0.483	0.475	0.468	0.452					0.487	8.362		30	Averaged
Chloromethane	0.404	0.372	0.371	0.348	0.371					0.373	5.339		50	Averaged
Dibromochloromethane	0.535	0.553	0.571	0.603	0.607					0.574	5.465		50	Averaged
Dibromomethane	0.145	0.141	0.153	0.149	0.151					0.148	3.239		50	Averaged
Dichlorodifluoromethane	0.264	0.270	0.265	0.279	0.255					0.267	3.375		50	Averaged
1,1-Dichloroethane	0.541	0.551	0.552	0.570	0.529					0.549	2.771		50	Averaged
1,2-Dichloroethane	0.372	0.361	0.381	0.366	0.365	0.397				0.374	3.619		50	Averaged
cis-1,2-Dichloroethene	0.482	0.499	0.499	0.516	0.497					0.499	2.357		50	Averaged
trans-1,2-Dichloroethene	0.394	0.390	0.386	0.397	0.364					0.386	3.369		50	Averaged
Methylene chloride	0.684	0.467	0.449	0.412	0.394					0.386	0.999		50	Linear
1,2-Dichloropropane	0.312	0.309	0.311	0.323	0.324					0.316	2.246		30	Averaged
cis-1,3-Dichloropropene	0.450	0.439	0.452	0.459	0.463					0.452	2.051		50	Averaged
trans-1,3-Dichloropropene	0.999	1.034	1.068	1.082	1.064					1.049	3.167		50	Averaged
Ethylbenzene	0.899	0.911	0.933	0.971	0.976					0.938	3.712		30	Averaged
2-Hexanone	0.869	0.744	0.721	0.695	0.679					0.742	10.14		50	Averaged
Isopropylbenzene (Cumene)	2.677	2.922	2.777	3.093	3.081					2.910	6.316		50	Averaged
2-Butanone	0.488	0.185	0.200	0.188	0.187					0.183	0.999		50	Linear
Methyl iodide	0.146	0.156	0.197	0.236	0.241					0.195	22.56		50	Averaged
4-Methyl-2-pentanone	0.382	0.328	0.366	0.341	0.356					0.355	5.975		50	Averaged
n-Propylbenzene	5.034	5.269	3.200	5.450	5.171					4.825	19.08		50	Averaged
Styrene	1.922	2.030	2.023	2.174	2.261					2.082	6.458		50	Averaged
Tetrachloroethene	0.444	0.462	0.443	0.495	0.463					0.462	4.505		50	Averaged
1,1,1,2-Tetrachloroethane	0.500	0.521	0.536	0.551	0.558					0.533	4.426		50	Averaged
1,1,2,2-Tetrachloroethane	0.870	0.851	0.852	0.896	0.908					0.875	2.955		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203110624

Instrument ID: MSV0 | Calibration Date 1 11/07/03 | Time 1: 0917

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 11/07/03 | Time 2: 1109

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

Analytical Batch: 265097

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,2,4-Trichlorobenzene	0.793	0.845	0.829	0.902	0.897					0.853	5.439		50	Averaged
1,1,1-Trichloroethane	0.360	0.389	0.379	0.401	0.365					0.379	4.438		50	Averaged
1,1,2-Trichloroethane	0.491	0.495	0.518	0.533	0.533					0.514	3.927		50	Averaged
Trichlorofluoromethane	0.297	0.319	0.309	0.328	0.293					0.309	4.827		50	Averaged
1,2,3-Trichloropropane	1.159	1.167	1.195	1.180	1.159					1.172	1.309		50	Averaged
1,2,4-Trimethylbenzene	2.946	3.128	3.028	3.256	3.242					3.120	4.304		50	Averaged
1,3,5-Trimethylbenzene	3.165	3.377	3.220	3.532	3.352					3.329	4.325		50	Averaged
Vinyl chloride	0.344	0.354	0.342	0.360	0.325	0.365				0.348	4.189		30	Averaged
o-Xylene	1.058	1.132	1.118	1.206	1.211					1.145	5.620		50	Averaged
1,2-Dibromo-3-chloropropane	0.117	0.130	0.138	0.147	0.146					0.136	9.105		50	Averaged
1,2-Dibromoethane	0.507	0.501	0.507	0.531	0.543					0.518	3.534		50	Averaged
Vinyl acetate	0.438	0.360	0.325	0.360	0.340					0.364	11.95		50	Averaged
tert-Butyl methyl ether (MTBE)	0.713	0.689	0.737	0.687	0.665					0.698	3.975		50	Averaged
1,2-Dichloroethene	0.438	0.445	0.443	0.456	0.430					0.442	2.132		50	Averaged
4-Isopropyltoluene	3.196	3.201	3.051	3.431	3.274					3.231	4.283		50	Averaged
Xylene (total)	1.096	1.192	1.124	1.264	1.241					1.183	6.129		50	Averaged
Methylcyclohexane	0.461	0.469	0.445	0.510	0.474					0.472	5.113		50	Averaged
n-Hexane	0.505	0.492	0.446	0.516	0.470					0.486	5.775		50	Averaged
trans-1,4-Dichloro-2-butene	0.141	0.155	0.141	0.149	0.127					0.142	7.353		50	Averaged
Cyclohexane	0.615	0.625	0.605	0.664	0.609					0.623	3.836		50	Averaged
2,2-Dichloropropane	0.378	0.395	0.385	0.405	0.375					0.387	3.263		50	Averaged
Methyl Acetate	0.280	0.207	0.237	0.216	0.211					0.230	13.09		50	Averaged
Trichlorotrifluoroethane	0.246	0.251	0.242	0.256	0.224					0.244	5.038		50	Averaged
1,1-Dichloropropene	0.357	0.370	0.357	0.386	0.363					0.366	3.258		50	Averaged
2-Chloroethylvinyl ether	0.119	0.111	0.127	0.128	0.135					0.124	7.606		50	Averaged
1,3-Dichloropropane	0.973	0.995	1.051	1.057	1.064					1.028	4.021		50	Averaged
Bromobenzene	2.256	2.213	2.204	2.249	2.153					2.215	1.870		50	Averaged
2-Chlorotoluene	3.261	3.310	2.971	3.343	3.279					3.233	4.626		50	Averaged
4-Chlorotoluene	3.170	3.057	3.105	3.280	3.050					3.133	3.055		50	Averaged
tert-Butylbenzene	2.294	2.418	2.190	2.404	2.224					2.306	4.466		50	Averaged
sec-Butylbenzene	4.172	4.309	4.009	4.578	4.305					4.275	4.892		50	Averaged
1,3-Dichlorobenzene	1.567	1.490	1.516	1.652	1.566					1.558	3.971		50	Averaged
1,4-Dichlorobenzene	1.508	1.625	1.482	1.637	1.590					1.569	4.449		50	Averaged
n-Butylbenzene	2.860	3.093	2.795	3.239	3.089					3.015	6.074		50	Averaged
1,2-Dichlorobenzene	1.411	1.408	1.338	1.457	1.397					1.402	3.052		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date 1 11/07/03 Time 1: 0917

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

Calibration Date 2 11/07/03 Time 2: 1109

Heated Purge: (Y/N) Y

Method: SW-846 8260

Analytical Batch: 265097

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Hexachlorobutadiene	0.503	0.573	0.504	0.607	0.542					0.546	8.247		50	Averaged
Naphthalene	1.255	1.361	1.454	1.566	1.644					1.456	10.67		50	Averaged
1,2,3-Trichlorobenzene	0.691	0.769	0.782	0.845	0.838					0.785	7.901		50	Averaged
1-Bromo-2-chloroethane	0.029	0.031	0.034	0.034	0.036	0.00				0.033	8.454		50	Averaged
1,1-Dichloroethene	0.217	0.215	0.207	0.222	0.200					0.212	4.178		30	Averaged
Benzene	1.071	1.087	1.102	1.114	1.113					1.098	1.676		50	Averaged
Trichloroethene	0.242	0.249	0.244	0.262	0.251					0.249	3.114		50	Averaged
Toluene	2.778	2.851	2.685	2.988	2.838					2.828	3.920		30	Averaged
Chlorobenzene	1.680	1.773	1.736	1.835	1.841					1.773	3.839		50	Averaged
4-Bromofluorobenzene	0.597	0.619	0.596	0.640	0.657					0.622	4.329		50	Averaged
Dibromofluoromethane	0.246	0.256	0.262	0.261	0.261					0.257	2.572		50	Averaged
Toluene-d8	2.060	2.169	2.108	2.275	2.169					2.156	3.732		50	Averaged
1,2-Dichloroethane-d4	0.141	0.140	0.151	0.145	0.143					0.144	3.168		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/07/03 Time: 1647

Lab File ID: 2031107P/S6819

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265084

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.102	0.138	0	6.604	50
Acrolein	0.041	0.049	0	19.0	50
Acrylonitrile	0.10	0.117	0	17.3	50
Bromochloromethane	0.119	0.129	0	8.259	50
Bromodichloromethane	0.330	0.360	0	9.144	50
Bromoform	0.345	0.320	.1	-7.42	50
Bromomethane	0.179	0.211	0	18.2	50
Carbon disulfide	0.919	1.042	0	13.3	50
Carbon tetrachloride	0.288	0.309	0	7.218	50
Chloroethane	0.176	0.226	0	22.8	50
m,p-Xylene	1.203	1.117	0	-7.07	50
Chloroform	0.487	0.508	0	4.332	20
Chloromethane	0.373	0.473	.1	26.9	50
Dibromochloromethane	0.574	0.524	0	-8.64	50
Dibromomethane	0.148	0.160	0	8.154	50
Dichlorodifluoromethane	0.267	0.297	0	11.6	50
1,1-Dichloroethane	0.549	0.599	.1	9.130	50
1,2-Dichloroethane	0.374	0.397	0	6.179	50
cis-1,2-Dichloroethene	0.499	0.550	0	10.2	50
trans-1,2-Dichloroethene	0.386	0.433	0	12.3	50
Methylene chloride	0.386	0.484	0	14.4	50
1,2-Dichloropropane	0.316	0.340	0	7.570	20
cis-1,3-Dichloropropene	0.452	0.494	0	9.244	50
trans-1,3-Dichloropropene	1.049	0.982	0	-6.37	50
Ethylbenzene	0.938	0.870	0	-7.25	20
2-Hexanone	0.742	0.648	0	-12.7	50
Isopropylbenzene (Cumene)	2.910	2.733	0	-6.06	50
2-Butanone	0.183	0.204	0	3.234	50
Methyl iodide	0.195	0.197	0	0.954	50
4-Methyl-2-pentanone	0.355	0.377	0	6.432	50
n-Propylbenzene	4.825	5.093	0	5.558	50
Styrene	2.082	1.931	0	-7.27	50
Tetrachloroethene	0.462	0.435	0	-5.69	50
1,1,1,2-Tetrachloroethane	0.533	0.484	0	-9.30	50
1,1,2,2-Tetrachloroethane	0.875	0.859	.3	-1.86	50
1,2,4-Trichlorobenzene	0.853	0.871	0	2.041	50
1,1,1-Trichloroethane	0.379	0.418	0	10.4	50
1,1,2-Trichloroethane	0.514	0.470	0	-8.67	50
Trichlorofluoromethane	0.309	0.350	0	13.1	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/07/03 Time: 1647

Lab File ID: 2031107P/S6819

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265084

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.172	1.151	0	-1.78	50
1,2,4-Trimethylbenzene	3.120	3.090	0	-0.94	50
1,3,5-Trimethylbenzene	3.329	3.245	0	-2.53	50
Vinyl chloride	0.348	0.390	0	12.0	20
o-Xylene	1.145	1.079	0	-5.80	50
1,2-Dibromo-3-chloropropane	0.136	0.133	0	-2.02	50
1,2-Dibromoethane	0.518	0.476	0	-8.11	50
Vinyl acetate	0.364	0.416	0	14.0	50
tert-Butyl methyl ether (MTBE)	0.698	0.771	0	10.4	50
1,2-Dichloroethene	0.442	0.492	0	11.1	50
4-Isopropyltoluene	3.231	3.215	0	-0.49	50
Xylene (total)	1.183	1.105	0	-6.65	50
Methylcyclohexane	0.472	0.533	0	12.9	50
n-Hexane	0.486	0.566	0	16.6	50
trans-1,4-Dichloro-2-butene	0.142	0.147	0	3.021	50
Cyclohexane	0.623	0.689	0	10.5	50
2,2-Dichloropropane	0.387	0.433	0	11.8	50
Methyl Acetate	0.230	0.251	0	8.978	50
Trichlorotrifluoroethane	0.244	0.275	0	13.0	50
1,1-Dichloropropene	0.366	0.401	0	9.327	50
2-Chloroethylvinyl ether	0.124	0.138	0	11.1	50
1,3-Dichloropropane	1.028	0.955	0	-7.14	50
Bromobenzene	2.215	2.164	0	-2.31	50
2-Chlorotoluene	3.233	3.254	0	0.648	50
4-Chlorotoluene	3.133	3.167	0	1.085	50
tert-Butylbenzene	2.306	2.249	0	-2.47	50
sec-Butylbenzene	4.275	4.221	0	-1.24	50
1,3-Dichlorobenzene	1.558	1.622	0	4.068	50
1,4-Dichlorobenzene	1.569	1.558	0	-0.68	50
n-Butylbenzene	3.015	3.099	0	2.788	50
1,2-Dichlorobenzene	1.402	1.378	0	-1.72	50
Hexachlorobutadiene	0.546	0.538	0	-1.32	50
Naphthalene	1.456	1.428	0	-1.93	50
1,2,3-Trichlorobenzene	0.785	0.788	0	0.392	50
1-Bromo-2-chloroethane	0.033	0.037	0	12.3	50
1,1-Dichloroethene	0.212	0.235	0	10.9	20
Benzene	1.098	1.202	0	9.501	50
Trichloroethene	0.249	0.273	0	9.530	50
Toluene	2.828	2.645	0	-6.49	20

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/07/03 Time: 1647

Lab File ID: 2031107P/S6819

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265084

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Chlorobenzene	1.773	1.642	.3	-7.35	50
4-Bromofluorobenzene	0.622	0.584	0	-6.11	50
Dibromofluoromethane	0.257	0.274	0	6.663	50
Toluene-d8	2.156	2.055	0	-4.69	50
1,2-Dichloroethane-d4	0.144	0.148	0	2.902	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/08/03 Time: 0849

Lab File ID: 2031108/S6849

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265098

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.102	0.125	0	-5.97	50
Acrolein	0.041	0.041	0	-0.27	50
Acrylonitrile	0.10	0.093	0	-6.84	50
Bromochloromethane	0.119	0.136	0	14.0	50
Bromodichloromethane	0.330	0.332	0	0.654	50
Bromoform	0.345	0.336	.1	-2.57	50
Bromomethane	0.179	0.177	0	-0.76	50
Carbon disulfide	0.919	0.870	0	-5.38	50
Carbon tetrachloride	0.288	0.295	0	2.212	50
Chloroethane	0.176	0.187	0	0.815	50
m,p-Xylene	1.203	1.233	0	2.522	50
Chloroform	0.487	0.464	0	-4.80	20
Chloromethane	0.373	0.361	.1	-3.13	50
Dibromochloromethane	0.574	0.563	0	-1.95	50
Dibromomethane	0.148	0.151	0	2.096	50
Dichlorodifluoromethane	0.267	0.250	0	-6.38	50
1,1-Dichloroethane	0.549	0.557	.1	1.463	50
1,2-Dichloroethane	0.374	0.332	0	-11.1	50
cis-1,2-Dichloroethene	0.499	0.503	0	0.950	50
trans-1,2-Dichloroethene	0.386	0.368	0	-4.52	50
Methylene chloride	0.386	0.380	0	-12.3	50
1,2-Dichloropropane	0.316	0.337	0	6.777	20
cis-1,3-Dichloropropene	0.452	0.485	0	7.187	50
trans-1,3-Dichloropropene	1.049	1.005	0	-4.19	50
Ethylbenzene	0.938	0.915	0	-2.40	20
2-Hexanone	0.742	0.657	0	-11.4	50
Isopropylbenzene (Cumene)	2.910	2.891	0	-0.64	50
2-Butanone	0.183	0.190	0	-4.57	50
Methyl iodide	0.195	0.172	0	-11.8	50
4-Methyl-2-pentanone	0.355	0.356	0	0.395	50
n-Propylbenzene	4.825	4.772	0	-1.10	50
Styrene	2.082	2.073	0	-0.44	50
Tetrachloroethene	0.462	0.478	0	3.580	50
1,1,1,2-Tetrachloroethane	0.533	0.526	0	-1.35	50
1,1,2,2-Tetrachloroethane	0.875	0.810	.3	-7.51	50
1,2,4-Trichlorobenzene	0.853	0.886	0	3.820	50
1,1,1-Trichloroethane	0.379	0.369	0	-2.51	50
1,1,2-Trichloroethane	0.514	0.506	0	-1.67	50
Trichlorofluoromethane	0.309	0.293	0	-5.08	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/08/03 Time: 0849

Lab File ID: 2031108/S6849

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265098

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.172	1.028	0	-12.3	50
1,2,4-Trimethylbenzene	3.120	3.018	0	-3.24	50
1,3,5-Trimethylbenzene	3.329	3.126	0	-6.09	50
Vinyl chloride	0.348	0.329	0	-5.50	20
o-Xylene	1.145	1.154	0	0.792	50
1,2-Dibromo-3-chloropropane	0.136	0.130	0	-4.46	50
1,2-Dibromoethane	0.518	0.523	0	1.00	50
Vinyl acetate	0.364	0.369	0	1.179	50
tert-Butyl methyl ether (MTBE)	0.698	0.644	0	-7.77	50
1,2-Dichloroethene	0.442	0.436	0	-1.43	50
4-Isopropyltoluene	3.231	3.249	0	0.558	50
Xylene (total)	1.183	1.207	0	1.945	50
Methylcyclohexane	0.472	0.540	0	14.5	50
n-Hexane	0.486	0.519	0	6.792	50
trans-1,4-Dichloro-2-butene	0.142	0.123	0	-13.6	50
Cyclohexane	0.623	0.663	0	6.435	50
2,2-Dichloropropane	0.387	0.389	0	0.502	50
Methyl Acetate	0.230	0.200	0	-13.0	50
Trichlorotrifluoroethane	0.244	0.236	0	-3.22	50
1,1-Dichloropropene	0.366	0.384	0	4.888	50
2-Chloroethylvinyl ether	0.124	0.062	0	-49.7	50
1,3-Dichloropropane	1.028	0.993	0	-3.45	50
Bromobenzene	2.215	1.967	0	-11.1	50
2-Chlorotoluene	3.233	2.946	0	-8.86	50
4-Chlorotoluene	3.133	2.800	0	-10.6	50
tert-Butylbenzene	2.306	2.057	0	-10.7	50
sec-Butylbenzene	4.275	4.118	0	-3.66	50
1,3-Dichlorobenzene	1.558	1.596	0	2.424	50
1,4-Dichlorobenzene	1.569	1.521	0	-3.04	50
n-Butylbenzene	3.015	3.008	0	-0.22	50
1,2-Dichlorobenzene	1.402	1.355	0	-3.34	50
Hexachlorobutadiene	0.546	0.548	0	0.438	50
Naphthalene	1.456	1.497	0	2.792	50
1,2,3-Trichlorobenzene	0.785	0.800	0	1.934	50
1-Bromo-2-chloroethane	0.033	0.038	0	16.3	50
1,1-Dichloroethene	0.212	0.199	0	-6.34	20
Benzene	1.098	1.189	0	8.370	50
Trichloroethene	0.249	0.288	0	15.6	50
Toluene	2.828	2.808	0	-0.70	20

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV0

Calibration Date: 11/08/03 Time: 0849

Lab File ID: 2031108/S6849

Init. Calib. Date 1: 11/07/03 Time 1: 0917

Heated Purge: (Y/N) Y

Init. Calib. Date 2: 11/07/03 Time 2: 1109

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

Analytical Batch: 265098

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Chlorobenzene	1.773	1.781	.3	0.432	50
4-Bromofluorobenzene	0.622	0.637	0	2.501	50
Dibromofluoromethane	0.257	0.264	0	2.461	50
Toluene-d8	2.156	2.234	0	3.628	50
1,2-Dichloroethane-d4	0.144	0.131	0	-8.77	50

FORM V II VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV1

Calibration Date 1 11/05/03 Time 1: 1414

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

Calibration Date 2 11/05/03 Time 2: 1658

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 265027

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.068	0.066	0.065	0.062	0.061					0.064	4.441		50	Averaged
Acrolein	0.029	0.030	0.033	0.036	0.037					0.033	11.20		50	Averaged
Acrylonitrile	0.086	0.083	0.077	0.078	0.075					0.080	5.623		50	Averaged
Bromochloromethane	0.197	0.182	0.184	0.190	0.178					0.186	3.917		50	Averaged
Bromodichloromethane	0.564	0.527	0.532	0.531	0.511	0.623				0.548	7.401		50	Averaged
Bromoform	0.640	0.547	0.599	0.577	0.624	0.706				0.616	8.943		50	Averaged
Bromomethane	0.222	0.200	0.188	0.174	0.162					0.189	12.19		50	Averaged
Carbon disulfide	0.716	0.688	0.706	0.686	0.685					0.696	2.009		50	Averaged
Carbon tetrachloride	0.379	0.367	0.378	0.360	0.362	0.310				0.359	7.075		50	Averaged
Chloroethane	0.165	0.160	0.146	0.138	0.102					0.142	17.58		50	Averaged
m,p-Xylene	1.080	1.00	1.025	0.928	0.826					0.972	10.12		50	Averaged
Chloroform	0.637	0.577	0.589	0.576	0.583					0.592	4.276		30	Averaged
Chloromethane	0.225	0.220	0.215	0.210	0.208					0.216	3.361		50	Averaged
Dibromochloromethane	0.895	0.869	0.916	0.896	0.937	0.999				0.919	4.946		50	Averaged
Dibromomethane	0.322	0.304	0.308	0.309	0.288					0.306	4.017		50	Averaged
Dichlorodifluoromethane	0.356	0.337	0.347	0.336	0.351					0.345	2.564		50	Averaged
1,1-Dichloroethane	0.548	0.512	0.509	0.510	0.488					0.514	4.245		50	Averaged
1,2-Dichloroethane	0.382	0.398	0.377	0.366	0.344	0.353				0.370	5.342		50	Averaged
cis-1,2-Dichloroethene	0.511	0.490	0.487	0.477	0.457					0.484	4.066		50	Averaged
trans-1,2-Dichloroethene	0.401	0.387	0.388	0.376	0.357					0.382	4.300		50	Averaged
Methylene chloride	0.370	0.346	0.356	0.353	0.342					0.353	3.058		50	Averaged
1,2-Dichloropropane	0.425	0.408	0.360	0.367	0.375					0.387	7.225		30	Averaged
cis-1,3-Dichloropropene	0.582	0.553	0.550	0.565	0.524					0.555	3.850		50	Averaged
trans-1,3-Dichloropropene	0.978	0.945	0.983	0.960	1.026					0.978	3.144		50	Averaged
Ethylbenzene	0.682	0.649	0.649	0.636	0.541					0.631	8.462		30	Averaged
2-Hexanone	0.655	0.562	0.561	0.536	0.556					0.574	8.046		50	Averaged
Isopropylbenzene (Cumene)	2.708	2.260	2.331	2.174	2.217	3.127				2.200	1.000		50	Linear
2-Butanone	0.153	0.145	0.150	0.145	0.139					0.146	3.593		50	Averaged
Methyl iodide	0.434	0.500	0.523	0.537	0.511					0.501	7.995		50	Averaged
4-Methyl-2-pentanone	0.438	0.405	0.413	0.427	0.416					0.420	3.020		50	Averaged
n-Propylbenzene	3.809	3.543	3.624	3.456	3.080					3.503	7.699		50	Averaged
Styrene	1.775	1.624	1.488	1.428	1.450					1.553	9.377		50	Averaged
Tetrachloroethene	0.582	0.558	0.585	0.533	0.564	0.674				0.583	8.294		50	Averaged
1,1,1,2-Tetrachloroethane	0.699	0.638	0.664	0.616	0.543					0.632	9.266		50	Averaged
1,1,2,2-Tetrachloroethane	0.954	0.818	0.882	0.844	0.918	1.229				0.941	15.87		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203110624

Instrument ID: MSV1 | Calibration Date 1 11/05/03 | Time 1: 1414

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 11/05/03 | Time 2: 1658

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

Analytical Batch: 265027

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,2,4-Trichlorobenzene	0.772	0.699	0.637	0.570	0.543					0.644	14.56		50	Averaged
1,1,1-Trichloroethane	0.478	0.451	0.456	0.440	0.422					0.449	4.633		50	Averaged
1,1,2-Trichloroethane	0.762	0.669	0.702	0.662	0.693					0.698	5.652		50	Averaged
Trichlorofluoromethane	0.430	0.420	0.435	0.417	0.417					0.424	1.951		50	Averaged
1,2,3-Trichloropropane	1.520	1.511	1.610	1.596	1.521					1.552	3.046		50	Averaged
1,2,4-Trimethylbenzene	2.345	2.168	2.086	1.816	1.472					1.977	17.24		50	Averaged
1,3,5-Trimethylbenzene	2.598	2.346	2.317	2.106	1.700					2.213	15.18		50	Averaged
Vinyl chloride	0.244	0.250	0.255	0.241	0.245	0.271				0.251	4.389		30	Averaged
o-Xylene	1.029	0.934	0.832	0.782	0.808					0.877	11.70		50	Averaged
1,2-Dibromo-3-chloropropane	0.321	0.301	0.340	0.334	0.353	0.336	0.123	0.248		0.351	0.999		50	Linear
1,2-Dibromoethane	0.934	0.891	0.916	0.881	0.918	1.001				0.924	4.591		50	Averaged
Vinyl acetate	0.529	0.459	0.437	0.520	0.525					0.494	8.660		50	Averaged
tert-Butyl methyl ether (MTBE)	0.854	0.784	0.784	0.790	0.746					0.792	4.894		50	Averaged
1,2-Dichloroethene	0.456	0.438	0.438	0.426	0.407					0.433	4.159		50	Averaged
4-Isopropyltoluene	2.620	2.358	2.539	2.430	2.305					2.450	5.281		50	Averaged
Xylene (total)	1.368	1.254	1.263	1.181	1.051					1.223	9.555		50	Averaged
Methylcyclohexane	0.593	0.544	0.563	0.537	0.522					0.552	4.936		50	Averaged
n-Hexane	0.439	0.381	0.394	0.376	0.359					0.390	7.755		50	Averaged
trans-1,4-Dichloro-2-butene	0.296	0.276	0.288	0.281	0.272					0.283	3.437		50	Averaged
Cyclohexane	0.544	0.510	0.543	0.504	0.481					0.516	5.197		50	Averaged
2,2-Dichloropropane	0.443	0.411	0.409	0.389	0.379					0.406	6.064		50	Averaged
Methyl Acetate	0.237	0.223	0.228	0.229	0.228					0.229	2.205		50	Averaged
Trichlorotrifluoroethane	0.485	0.465	0.482	0.452	0.453					0.467	3.348		50	Averaged
1,1-Dichloropropene	0.484	0.441	0.451	0.450	0.426					0.450	4.726		50	Averaged
2-Chloroethylvinyl ether	0.239	0.210	0.193	0.220	0.214					0.215	7.888		50	Averaged
1,3-Dichloropropane	1.218	1.130	1.143	1.091	1.133					1.143	4.070		50	Averaged
Bromobenzene	2.470	2.229	2.320	2.181	2.336					2.307	4.823		50	Averaged
2-Chlorotoluene	2.604	2.545	2.724	2.436	2.247					2.511	7.189		50	Averaged
4-Chlorotoluene	2.662	2.476	2.450	2.462	2.620					2.534	3.913		50	Averaged
tert-Butylbenzene	1.782	1.675	1.764	1.687	1.598					1.701	4.360		50	Averaged
sec-Butylbenzene	3.591	3.284	3.587	3.514	3.340					3.463	4.122		50	Averaged
1,3-Dichlorobenzene	1.395	1.338	1.398	1.280	1.212					1.324	5.990		50	Averaged
1,4-Dichlorobenzene	1.740	1.608	1.666	1.740	1.647					1.680	3.476		50	Averaged
n-Butylbenzene	2.429	2.099	2.200	1.938	1.725					2.078	12.80		50	Averaged
1,2-Dichlorobenzene	1.574	1.431	1.492	1.472	1.400					1.474	4.492		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV1

Calibration Date 1 11/05/03 Time 1: 1414

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

Calibration Date 2 11/05/03 Time 2: 1658

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 265027

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Hexachlorobutadiene	0.636	0.572	0.619	0.636	0.608	0.702				0.629	6.856		50	Averaged
Naphthalene	1.454	1.226	1.100	0.938	0.994					0.969	0.997		50	Linear
1,2,3-Trichlorobenzene	0.745	0.692	0.613	0.536	0.519					0.505	0.999		50	Linear
1,1-Dichloroethene	0.252	0.240	0.246	0.231	0.225					0.239	4.575		30	Averaged
Benzene	1.064	0.982	0.982	0.950	0.891	1.239	1.652	1.328		0.898	0.999		50	Linear
Trichloroethene	0.455	0.443	0.452	0.440	0.410	0.509				0.451	7.203		50	Averaged
Toluene	2.357	2.178	2.207	2.038	2.092					2.174	5.616		30	Averaged
Chlorobenzene	1.656	1.470	1.503	1.401	1.269					1.460	9.709		50	Averaged
4-Bromofluorobenzene	0.676	0.644	0.651	0.635	0.655					0.652	2.348		50	Averaged
Dibromofluoromethane	0.439	0.416	0.408	0.408	0.385					0.411	4.692		50	Averaged
Toluene-d8	1.893	1.792	1.760	1.662	1.722					1.766	4.870		50	Averaged
1,2-Dichloroethane-d4	0.197	0.179	0.172	0.173	0.164					0.177	6.778		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203110624

Instrument ID: MSV1 | Calibration Date: 11/09/03 | Time: 0917

Lab File ID: 2031109/S4906 | Init. Calib. Date 1: 11/05/03 | Time 1: 1414

Heated Purge: (Y/N) N | Init. Calib. Date 2: 11/05/03 | Time 2: 1658

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

Analytical Batch: 265120

COMPOUND	RRF	RRF50	Min RRF	% D	Max %D
Acetone	0.064	0.085	0	32.4	50
Acrolein	0.033	0.003	0	-91.4	50
Acrylonitrile	0.080	0.071	0	-11.1	50
Bromochloromethane	0.186	0.207	0	11.1	50
Bromodichloromethane	0.548	0.572	0	4.396	50
Bromoform	0.616	0.757	.1	23.0	50
Bromomethane	0.189	0.173	0	-8.56	50
Carbon disulfide	0.696	0.724	0	3.985	50
Carbon tetrachloride	0.359	0.419	0	16.6	50
Chloroethane	0.142	0.161	0	13.3	50
m,p-Xylene	0.972	1.018	0	4.772	50
Chloroform	0.592	0.614	0	3.592	20
Chloromethane	0.216	0.201	.1	-6.81	50
Dibromochloromethane	0.919	0.949	0	3.278	50
Dibromomethane	0.306	0.324	0	5.806	50
Dichlorodifluoromethane	0.345	0.352	0	1.968	50
1,1-Dichloroethane	0.514	0.521	.1	1.403	50
1,2-Dichloroethane	0.370	0.391	0	5.600	50
cis-1,2-Dichloroethene	0.484	0.495	0	2.258	50
trans-1,2-Dichloroethene	0.382	0.386	0	1.117	50
Methylene chloride	0.353	0.358	0	1.162	50
1,2-Dichloropropane	0.387	0.400	0	3.441	20
cis-1,3-Dichloropropene	0.555	0.583	0	5.112	50
trans-1,3-Dichloropropene	0.978	0.968	0	-1.02	50
Ethylbenzene	0.631	0.624	0	-1.18	20
2-Hexanone	0.574	0.531	0	-7.44	50
Isopropylbenzene (Cumene)	2.200	2.625	0	17.4	50
2-Butanone	0.146	0.160	0	9.308	50
Methyl iodide	0.501	0.485	0	-3.10	50
4-Methyl-2-pentanone	0.420	0.428	0	1.819	50
n-Propylbenzene	3.503	3.393	0	-3.13	50
Styrene	1.553	1.666	0	7.277	50
Tetrachloroethene	0.583	0.606	0	4.056	50
1,1,1,2-Tetrachloroethane	0.632	0.696	0	10.1	50
1,1,2,2-Tetrachloroethane	0.941	1.066	.3	13.3	50
1,2,4-Trichlorobenzene	0.644	0.849	0	31.7	50
1,1,1-Trichloroethane	0.449	0.331	0	-26.3	50
1,1,2-Trichloroethane	0.698	0.702	0	0.681	50
Trichlorofluoromethane	0.424	0.472	0	11.4	50

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Instrument ID: MSV1 Calibration Date: 11/09/03 Time: 0917

Lab File ID: 2031109/S4906 Init. Calib. Date 1: 11/05/03 Time 1: 1414

Heated Purge: (Y/N) N Init. Calib. Date 2: 11/05/03 Time 2: 1658

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

Analytical Batch: 265120

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	1.552	1.553	0	0.108	50
1,2,4-Trimethylbenzene	1.977	2.095	0	5.951	50
1,3,5-Trimethylbenzene	2.213	2.248	0	1.583	50
Vinyl chloride	0.251	0.251	0	-0.18	20
o-Xylene	0.877	0.958	0	9.264	50
1,2-Dibromo-3-chloropropane	0.351	0.345	0	0.628	50
1,2-Dibromoethane	0.924	0.915	0	-0.90	50
Vinyl acetate	0.494	0.593	0	20.1	50
tert-Butyl methyl ether (MTBE)	0.792	0.820	0	3.576	50
1,2-Dichloroethene	0.433	0.441	0	1.688	50
4-Isopropyltoluene	2.450	2.462	0	0.470	50
Xylene (total)	1.223	1.080	0	6.269	50
Methylcyclohexane	0.552	0.566	0	2.614	50
n-Hexane	0.390	0.389	0	-0.26	50
trans-1,4-Dichloro-2-butene	0.283	0.275	0	-2.75	50
Cyclohexane	0.516	0.522	0	1.117	50
2,2-Dichloropropane	0.406	0.470	0	15.6	50
Methyl Acetate	0.229	0.228	0	-0.49	50
Trichlorotrifluoroethane	0.467	0.514	0	10.0	50
1,1-Dichloropropene	0.450	0.466	0	3.488	50
2-Chloroethylvinyl ether	0.215	0.224	0	4.227	50
1,3-Dichloropropane	1.143	1.112	0	-2.68	50
Bromobenzene	2.307	2.473	0	7.187	50
2-Chlorotoluene	2.511	2.365	0	-5.83	50
4-Chlorotoluene	2.534	2.307	0	-8.96	50
tert-Butylbenzene	1.701	1.663	0	-2.21	50
sec-Butylbenzene	3.463	3.440	0	-0.68	50
1,3-Dichlorobenzene	1.324	1.364	0	3.026	50
1,4-Dichlorobenzene	1.680	1.408	0	-16.2	50
n-Butylbenzene	2.078	2.252	0	8.377	50
1,2-Dichlorobenzene	1.474	1.440	0	-2.28	50
Hexachlorobutadiene	0.629	0.661	0	5.090	50
Naphthalene	0.969	1.569	0	55.3	50
1,2,3-Trichlorobenzene	0.505	0.820	0	49.5	50
1,1-Dichloroethene	0.239	0.253	0	5.953	20
Benzene	0.898	0.989	0	6.874	50
Trichloroethene	0.451	0.445	0	-1.36	50
Toluene	2.174	2.157	0	-0.78	20
Chlorobenzene	1.460	1.526	.3	4.519	50

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV1

Calibration Date: 11/09/03 Time: 0917

Lab File ID: 2031109/S4906

Init. Calib. Date 1: 11/05/03 Time 1: 1414

Heated Purge: (Y/N) N

Init. Calib. Date 2: 11/05/03 Time 2: 1658

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

Analytical Batch: 265120

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
4-Bromofluorobenzene	0.652	0.759	0	16.3	50
Dibromofluoromethane	0.411	0.455	0	10.6	50
Toluene-d8	1.766	1.788	0	1.227	50
1,2-Dichloroethane-d4	0.177	0.177	0	0.043	50

FORM V II VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV2

Calibration Date 1 11/07/03 Time 1: 1108

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

Calibration Date 2 11/07/03 Time 2: 1310

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 265091

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Acetone	0.043	0.033	0.031	0.032	0.030					0.030	0.999		50	Linear
Acrylonitrile	0.030	0.032	0.029	0.031	0.032					0.031	4.463		50	Averaged
Bromochloromethane	0.139	0.147	0.140	0.145	0.154					0.145	4.185		50	Averaged
Bromodichloromethane	0.312	0.318	0.313	0.326	0.344					0.323	4.067		50	Averaged
Bromoform	0.386	0.396	0.386	0.424	0.460					0.410	7.786		50	Averaged
Bromomethane	0.131	0.123	0.122	0.128	0.128					0.127	2.897		50	Averaged
Carbon disulfide	0.475	0.468	0.478	0.496	0.507					0.485	3.366		50	Averaged
Carbon tetrachloride	0.329	0.327	0.334	0.347	0.355					0.339	3.569		50	Averaged
Chloroethane	0.120	0.104	0.102	0.102	0.105					0.107	6.961		50	Averaged
m,p-Xylene	1.159	1.369	1.431	1.528	1.559					1.409	11.29		50	Averaged
Chloroform	0.464	0.460	0.451	0.460	0.476					0.462	1.984		30	Averaged
Chloromethane	0.252	0.259	0.256	0.258	0.268					0.259	2.175		50	Averaged
Dibromochloromethane	0.676	0.701	0.688	0.728	0.790					0.717	6.366		50	Averaged
Dibromomethane	0.144	0.151	0.145	0.150	0.160					0.150	4.217		50	Averaged
Dichlorodifluoromethane	0.248	0.247	0.260	0.271	0.273					0.260	4.747		50	Averaged
1,1-Dichloroethane	0.351	0.323	0.373	0.392	0.303					0.348	10.37		50	Averaged
1,2-Dichloroethane	0.324	0.334	0.312	0.317	0.318					0.321	2.684		50	Averaged
cis-1,2-Dichloroethene	0.392	0.413	0.424	0.437	0.442					0.421	4.782		50	Averaged
trans-1,2-Dichloroethene	0.196	0.193	0.194	0.194	0.196					0.195	0.723		50	Averaged
Methylene chloride	0.188	0.189	0.180	0.180	0.183					0.184	2.337		50	Averaged
1,2-Dichloropropane	0.299	0.318	0.315	0.317	0.320	0.287				0.309	4.276		30	Averaged
cis-1,3-Dichloropropene	0.332	0.391	0.409	0.441	0.474					0.409	13.08		50	Averaged
trans-1,3-Dichloropropene	0.783	0.944	0.965	1.051	1.107					0.970	12.74		50	Averaged
Ethylbenzene	0.894	1.084	1.164	1.245	1.294					1.136	13.84		30	Averaged
2-Hexanone	0.221	0.305	0.318	0.362	0.403					0.412	0.997		50	Linear
Isopropylbenzene (Cumene)	2.184	3.001	3.373	3.694	3.853					3.925	0.999		50	Linear
2-Butanone	0.076	0.080	0.077	0.085	0.085					0.081	5.339		50	Averaged
Methyl iodide	0.269	0.291	0.302	0.310	0.312					0.297	5.986		50	Averaged
4-Methyl-2-pentanone	0.121	0.160	0.164	0.183	0.204					0.208	0.997		50	Linear
n-Propylbenzene	3.410	4.076	4.410	4.716	4.971					4.317	14.07		50	Averaged
Styrene	1.657	2.209	2.387	2.576	2.659					2.700	1.000		50	Linear
Tetrachloroethene	0.539	0.590	0.611	0.670	0.716					0.626	11.03		50	Averaged
1,1,1,2-Tetrachloroethane	0.662	0.706	0.708	0.752	0.803					0.726	7.354		50	Averaged
1,1,2,2-Tetrachloroethane	0.724	0.692	0.639	0.687	0.715					0.691	4.770		50	Averaged
1,2,4-Trichlorobenzene	0.562	0.672	0.756	0.860	0.903					0.922	0.999		50	Linear

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL | Contract:

Lab Code: LA024 | Case No.: | SAS No.: | SDG No.: 203110624

Instrument ID: MSV2 | Calibration Date 1 11/07/03 | Time 1: 1108

GC Column: DB-624-30M | ID: .53 (mm) | Calibration Date 2 11/07/03 | Time 2: 1310

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

Analytical Batch: 265091

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
1,1,1-Trichloroethane	0.370	0.369	0.380	0.389	0.399					0.381	3.345		50	Averaged
1,1,2-Trichloroethane	0.541	0.588	0.550	0.575	0.620					0.575	5.462		50	Averaged
Trichlorofluoromethane	0.239	0.233	0.243	0.250	0.251					0.243	3.087		50	Averaged
1,2,3-Trichloropropane	0.798	0.887	0.834	0.881	0.956					0.871	6.849		50	Averaged
1,2,4-Trimethylbenzene	2.382	2.807	3.017	3.111	3.187					2.901	11.13		50	Averaged
1,3,5-Trimethylbenzene	2.408	2.875	3.041	3.155	3.261					2.948	11.33		50	Averaged
Vinyl chloride	0.180	0.168	0.177	0.181	0.183	0.175				0.177	3.045		30	Averaged
o-Xylene	0.973	1.268	1.346	1.448	1.490					1.511	1.000		50	Linear
1,2-Dibromo-3-chloropropane	0.093	0.098	0.096	0.108	0.123					0.104	11.74		50	Averaged
1,2-Dibromoethane	0.535	0.589	0.562	0.594	0.645					0.585	7.010		50	Averaged
Vinyl acetate	0.137	0.132	0.142	0.141	0.143					0.139	3.168		50	Averaged
tert-Butyl methyl ether (MTBE)	0.298	0.306	0.297	0.306	0.325					0.306	3.708		50	Averaged
1,2-Dichloroethene	0.294	0.303	0.309	0.316	0.319					0.308	3.301		50	Averaged
4-Isopropyltoluene	2.467	3.078	3.403	3.661	3.824					3.883	0.999		50	Linear
Xylene (total)	1.097	1.335	1.403	1.501	1.536					1.374	12.68		50	Averaged
Methylcyclohexane	0.326	0.418	0.488	0.528	0.546					0.556	1.000		50	Linear
n-Hexane	0.184	0.189	0.202	0.211	0.215					0.200	6.713		50	Averaged
trans-1,4-Dichloro-2-butene	0.148	0.173	0.174	0.189	0.203					0.177	11.75		50	Averaged
Cyclohexane	0.398	0.477	0.547	0.582	0.592					0.601	1.000		50	Linear
2,2-Dichloropropane	0.330	0.344	0.349	0.358	0.366					0.349	3.882		50	Averaged
Methyl Acetate	0.085	0.083	0.071	0.070	0.074					0.076	9.040		50	Averaged
Trichlorotrifluoroethane	0.152	0.149	0.160	0.166	0.163					0.158	4.422		50	Averaged
1,1-Dichloropropene	0.284	0.323	0.348	0.368	0.375					0.340	10.86		50	Averaged
2-Chloroethylvinyl ether	0.400	0.455	0.457	0.488	0.523					0.464	9.786		50	Averaged
1,3-Dichloropropane	0.938	1.041	1.028	1.078	1.114					1.040	6.356		50	Averaged
Bromobenzene	1.496	1.636	1.640	1.726	1.833					1.666	7.464		50	Averaged
2-Chlorotoluene	2.065	2.643	2.476	2.659	2.805					2.530	11.26		50	Averaged
4-Chlorotoluene	2.564	2.844	2.999	3.081	3.206					2.939	8.423		50	Averaged
tert-Butylbenzene	1.403	1.761	1.913	2.031	2.100					1.842	15.03		50	Averaged
sec-Butylbenzene	2.899	3.555	3.918	4.197	4.401					4.466	0.999		50	Linear
1,3-Dichlorobenzene	1.549	1.662	1.715	1.817	1.989					1.746	9.540		50	Averaged
1,4-Dichlorobenzene	1.748	1.729	1.689	1.765	1.879					1.762	4.043		50	Averaged
n-Butylbenzene	1.704	2.243	2.764	2.938	3.000					2.530	21.72		50	Averaged
1,2-Dichlorobenzene	1.439	1.490	1.489	1.552	1.664					1.527	5.678		50	Averaged
Hexachlorobutadiene	0.360	0.387	0.424	0.471	0.519					0.432	14.79		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV2

Calibration Date 1 11/07/03 Time 1: 1108

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

Calibration Date 2 11/07/03 Time 2: 1310

Heated Purge: (Y/N) N

Method: SW-846 8260

Analytical Batch: 265091

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	$\overline{RF}$	RSD	#	LIMIT	TYPE
Naphthalene	0.901	1.051	1.062	1.256	1.278					1.110	14.18		50	Averaged
1,2,3-Trichlorobenzene	0.545	0.617	0.649	0.730	0.760					0.772	0.999		50	Linear
1-Bromo-2-chloroethane	0.081	0.098	0.100	0.110	0.115	0.081				0.098	14.63		50	Averaged
1,1-Dichloroethene	0.126	0.127	0.129	0.132	0.133					0.129	2.352		30	Averaged
Benzene	1.059	1.119	1.127	1.157	1.201	1.046				1.118	5.254		50	Averaged
Trichloroethene	0.251	0.276	0.295	0.318	0.348					0.298	12.51		50	Averaged
Toluene	2.915	3.224	3.299	3.413	3.540					3.278	7.194		30	Averaged
Chlorobenzene	2.262	2.299	2.289	2.378	2.479					2.342	3.763		50	Averaged
4-Bromofluorobenzene	0.745	0.840	0.847	0.927	1.013					0.874	11.54		50	Averaged
Dibromofluoromethane	0.290	0.291	0.270	0.278	0.286					0.283	3.127		50	Averaged
Toluene-d8	1.993	2.411	2.445	2.612	2.716					2.436	11.36		50	Averaged
1,2-Dichloroethane-d4	0.137	0.134	0.125	0.133	0.137					0.133	3.669		50	Averaged

Column used to indicate that the required RRF or %RSD values is outside of QC limits

* Indicates that the compound is outside of the required minimum RRF and maximum %RSD values.

FORM V I VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV2

Calibration Date: 11/10/03 Time: 0829

Lab File ID: 2031110/T0399

Init. Calib. Date 1: 11/07/03 Time 1: 1108

Heated Purge: (Y/N) N

Init. Calib. Date 2: 11/07/03 Time 2: 1310

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

Analytical Batch: 265163

COMPOUND	$\overline{RRF}$	RRF50	Min RRF	% D	Max %D
Acetone	0.030	0.029	0	-7.97	50
Acrolein		0.00	0	-1000	50
Acrylonitrile	0.031	0.027	0	-12.5	50
Bromochloromethane	0.145	0.131	0	-9.42	50
Bromodichloromethane	0.323	0.296	0	-8.23	50
Bromoform	0.410	0.393	.1	-4.30	50
Bromomethane	0.127	0.113	0	-10.8	50
Carbon disulfide	0.485	0.435	0	-10.2	50
Carbon tetrachloride	0.339	0.303	0	-10.4	50
Chloroethane	0.107	0.095	0	-10.8	50
m,p-Xylene	1.409	1.317	0	-6.53	50
Chloroform	0.462	0.421	0	-9.00	20
Chloromethane	0.259	0.224	.1	-13.2	50
Dibromochloromethane	0.717	0.666	0	-7.04	50
Dibromomethane	0.150	0.138	0	-7.68	50
Dichlorodifluoromethane	0.260	0.209	0	-19.4	50
1,1-Dichloroethane	0.348	0.293	.1	-15.9	50
1,2-Dichloroethane	0.321	0.296	0	-7.91	50
cis-1,2-Dichloroethene	0.421	0.383	0	-9.09	50
trans-1,2-Dichloroethene	0.195	0.174	0	-10.4	50
Methylene chloride	0.184	0.169	0	-8.17	50
1,2-Dichloropropane	0.309	0.290	0	-6.18	20
cis-1,3-Dichloropropene	0.409	0.384	0	-6.15	50
trans-1,3-Dichloropropene	0.970	0.897	0	-7.47	50
Ethylbenzene	1.136	1.074	0	-5.44	20
2-Hexanone	0.412	0.304	0	-12.2	50
Isopropylbenzene (Cumene)	3.925	3.135	0	-10.7	50
2-Butanone	0.081	0.073	0	-10.1	50
Methyl iodide	0.297	0.291	0	-1.78	50
4-Methyl-2-pentanone	0.208	0.159	0	-10.1	50
n-Propylbenzene	4.317	3.932	0	-8.90	50
Styrene	2.700	2.227	0	-9.91	50
Tetrachloroethene	0.626	0.578	0	-7.61	50
1,1,1,2-Tetrachloroethane	0.726	0.679	0	-6.48	50
1,1,2,2-Tetrachloroethane	0.691	0.632	.3	-8.61	50
1,2,4-Trichlorobenzene	0.922	0.732	0	-9.67	50
1,1,1-Trichloroethane	0.381	0.342	0	-10.4	50
1,1,2-Trichloroethane	0.575	0.535	0	-6.83	50
Trichlorofluoromethane	0.243	0.212	0	-12.6	50

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV2

Calibration Date: 11/10/03 Time: 0829

Lab File ID: 2031110/T0399

Init. Calib. Date 1: 11/07/03 Time 1: 1108

Heated Purge: (Y/N) N

Init. Calib. Date 2: 11/07/03 Time 2: 1310

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

Analytical Batch: 265163

COMPOUND	RRF	RRF50	Min RRF	% D	Max %D
1,2,3-Trichloropropane	0.871	0.772	0	-11.3	50
1,2,4-Trimethylbenzene	2.901	2.580	0	-11.0	50
1,3,5-Trimethylbenzene	2.948	2.691	0	-8.71	50
Vinyl chloride	0.177	0.154	0	-13.3	20
o-Xylene	1.511	1.247	0	-10.5	50
1,2-Dibromo-3-chloropropane	0.104	0.096	0	-7.78	50
1,2-Dibromoethane	0.585	0.544	0	-7.02	50
Vinyl acetate	0.139	0.121	0	-12.8	50
tert-Butyl methyl ether (MTBE)	0.306	0.275	0	-10.1	50
1,2-Dichloroethene	0.308	0.279	0	-9.78	50
4-Isopropyltoluene	3.883	2.944	0	-15.8	50
Xylene (total)	1.374	1.294	0	-7.85	50
Methylcyclohexane	0.556	0.450	0	-10.3	50
n-Hexane	0.200	0.178	0	-10.9	50
trans-1,4-Dichloro-2-butene	0.177	0.168	0	-5.15	50
Cyclohexane	0.601	0.475	0	-14.2	50
2,2-Dichloropropane	0.349	0.318	0	-9.11	50
Methyl Acetate	0.076	0.068	0	-10.3	50
Trichlorotrifluoroethane	0.158	0.142	0	-9.99	50
1,1-Dichloropropene	0.340	0.312	0	-8.07	50
2-Chloroethylvinyl ether	0.464	0.449	0	-3.33	50
1,3-Dichloropropane	1.040	0.973	0	-6.41	50
Bromobenzene	1.666	1.488	0	-10.6	50
2-Chlorotoluene	2.530	2.452	0	-3.05	50
4-Chlorotoluene	2.939	2.569	0	-12.5	50
tert-Butylbenzene	1.842	1.679	0	-8.84	50
sec-Butylbenzene	4.466	3.465	0	-14.0	50
1,3-Dichlorobenzene	1.746	1.568	0	-10.2	50
1,4-Dichlorobenzene	1.762	1.556	0	-11.6	50
n-Butylbenzene	2.530	2.197	0	-13.1	50
1,2-Dichlorobenzene	1.527	1.406	0	-7.94	50
Hexachlorobutadiene	0.432	0.421	0	-2.71	50
Naphthalene	1.110	1.129	0	1.729	50
1,2,3-Trichlorobenzene	0.772	0.648	0	-7.19	50
1-Bromo-2-chloroethane	0.098	0.103	0	1.792	50
1,1-Dichloroethene	0.129	0.113	0	-12.3	20
Benzene	1.118	1.042	0	-6.76	50
Trichloroethene	0.298	0.268	0	-9.96	50
Toluene	3.278	3.029	0	-7.60	20

FORM V II VOA

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Instrument ID: MSV2

Calibration Date: 11/10/03 Time: 0829

Lab File ID: 2031110/T0399

Init. Calib. Date 1: 11/07/03 Time 1: 1108

Heated Purge: (Y/N) N

Init. Calib. Date 2: 11/07/03 Time 2: 1310

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

Analytical Batch: 265163

COMPOUND	RRF	RRF50	Min RRF	% D	Max %D
Chlorobenzene	2.342	2.124	.3	-9.28	50
4-Bromofluorobenzene	0.874	0.777	0	-11.0	50
Dibromofluoromethane	0.283	0.272	0	-3.96	50
Toluene-d8	2.436	2.498	0	2.578	50
1,2-Dichloroethane-d4	0.133	0.131	0	-1.59	50

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 203110624

Lab File ID (Standard): 2031107P/S6819

Date Analyzed: 11/07/03

Instrument ID: MSV0

Time: 1647

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

Heated Purge: (Y/N) Y

Analytical Batch: 265084

	IS 1 Area		IS 1 RT		IS 2 Area		IS 2 RT		IS 3 Area		IS 3 RT	
12 HOUR STD	277427		8.902		597332		6.644		195883		10.48	
EPA Sample		#		#		#		#		#		#
1. LCS129291	268849		8.9		601784		6.64		201720		10.48	
2. 86-B106-S-1105-03	164588		8.9		487669		6.64		70155	*	10.46	
3. 86-B110-S-1105-03	258229		8.89		550715		6.64		203844		10.47	
4. 86-B137-S-1105-03	196256		8.89		519786		6.64		106846		10.47	
5. 86-B158-S-1105-03	239455		8.9		570149		6.64		164851		10.46	
6. 86-B167-S-1105-03	261817		8.9		594112		6.64		210923		10.47	
7. 86-DUP2-S-1010-02	252574		8.9		561463		6.64		221026		10.47	
8. LCSD129313	271606		8.9		596394		6.64		198439		10.48	
9. MB129292	255176		8.89		559685		6.63		191050		10.47	
10. 86-B189-S-1105-03	253354		8.9		584215		6.64		169987		10.47	
11. 86-B7-S-1105-03	223408		8.9		520941		6.64		152020		10.47	
12. 86-B31-S-1105-03	283857		8.9		654770		6.64		167386		10.47	
13. 86-B70-S-1105-03	231260		8.89		551279		6.64		192055		10.46	
14. 86-B99-S-1105-03	251036		8.89		592317		6.64		148541		10.47	
15. 86-B104-S-1105-03	151771		8.89		382888		6.64		103942		10.47	

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

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.: 203110624

Lab File ID (Standard): 2031108/S6849

Date Analyzed: 11/08/03

Instrument ID: MSV0

Time: 0849

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

Heated Purge: (Y/N) Y

Analytical Batch: 265098

	IS 1 Area	RT	IS 2 Area	RT	IS 3 Area	RT
12 HOUR STD	264754	8.889	610171	6.638	205125	10.46

EPA Sample	IS 1 Area	#	RT	#	IS 2 Area	#	RT	#	IS 3 Area	#	RT	#
1 . LCS129314	260483		8.89		593888		6.64		195736		10.46	
2 . LCSD129332	260209		8.89		576523		6.64		194969		10.46	
3 . MB129315	251612		8.89		572326		6.64		191199		10.47	
4 . 86-B101-S-1105-03	243870		8.89		571867		6.64		160210		10.47	
5 . 86-MS-S-1105-03	243274		8.89		556359		6.64		154666		10.47	
6 . 86-MSD-S-1105-03	235448		8.89		545785		6.64		148738		10.47	
7 . 86-B146-S-1105-03	223817		8.9		535708		6.64		151619		10.48	

IS 1 ID : Chlorobenzene-d5

IS 2 ID : Fluorobenzene

IS 3 ID : 1,4-Dichlorobenzene-d4

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.: 203110624

Lab File ID (Standard): 2031109/S4906

Date Analyzed: 11/09/03

Instrument ID: MSV1

Time: 0917

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

Heated Purge: (Y/N) N

Analytical Batch: 265120

	IS 1 Area		IS 1 RT		IS 2 Area		IS 2 RT		IS 3 Area		IS 3 RT	
12 HOUR STD	935136		8.092		1684332		6		864107		10.22	
EPA Sample		#		#		#		#		#		#
1. LCS129374	880802		8.18		1635159		6.07		804629		10.33	
2. MB129375	884928		8.17		1684896		6.06		810788		10.32	
3. 86-EB1-W-1105-03	871587		8.17		1665731		6.05		778754		10.32	
4. 86-EB2-W-1105-03	877593		8.17		1659344		6.06		799283		10.31	
5. 086-TB1-W-1010-02	905989		8.07		1712479		5.96		827601		10.19	
6. 086-TB2-W-1010-02	918032		8.06		1725970		5.97		833691		10.19	

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

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.: 203110624

Lab File ID (Standard): 2031110/T0399

Date Analyzed: 11/10/03

Instrument ID: MSV2

Time: 0829

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

Heated Purge: (Y/N) N

Analytical Batch: 265163

	IS 1 Area		IS 1 RT		IS 2 Area		IS 2 RT		IS 3 Area		IS 3 RT	
12 HOUR STD	556865		8.346		1503731		5.824		541655		10.16	
EPA Sample		#		#		#		#		#		#
1 . LCS129601	562808		8.35		1546183		5.83		541564		10.16	
2 . LCSD129603	546689		8.35		1480289		5.83		554476		10.16	
3 . MB129602	517822		8.36		1386246		5.83		446714		10.17	
4 . 86-B41-S-1105-03	666320		8.35		1616574		5.82		692627		10.17	
5 . 86-B96-S-1105-03	621369		8.36		1629926		5.83		616230		10.17	
6 . 86-DUP1-S-1010-02	629293		8.36		1683148		5.83		614454		10.18	

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

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

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6828.d
Lab Smp Id: 20311062401
Client Smp ID: 86-B7-S-1105-03
Inj Date : 07-NOV-2003 20:17
Operator : KRV
Inst ID: msv0.i
Smp Info : 20311062401*86-B7-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo
Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09
Cal File: s6806.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: BTEXS+MTBE+LCS.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	5.99000	Weight of sample extracted (g)

Cpnd Variable — Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
25 Dibromofluoromethane	111	6.120	6.124	(0.922)	141139	52.6662	44.0	3523(H)
32 1,2-Dichloroethane-d4	67	6.423	6.426	(0.967)	81626	54.4202	45.4	9549
35 FLUOROBENZENE	96	6.640	6.644	(1.000)	520941	50.0000		9319
46 Toluene-d8	98	7.819	7.822	(0.879)	474414	49.2473	41.1	8974
58 CHLOROBENZENE-d5	82	8.898	8.902	(1.000)	223408	50.0000		9171
67 Bromofluorobenzene	174	9.695	9.705	(1.090)	127163	45.7771	38.2	8092
81 1,4-DICHLOROBENZENE-D4	152	10.471	10.482	(1.000)	152020	50.0000		9171

C Flag Legend

- Operator selected an alternate compound hit.

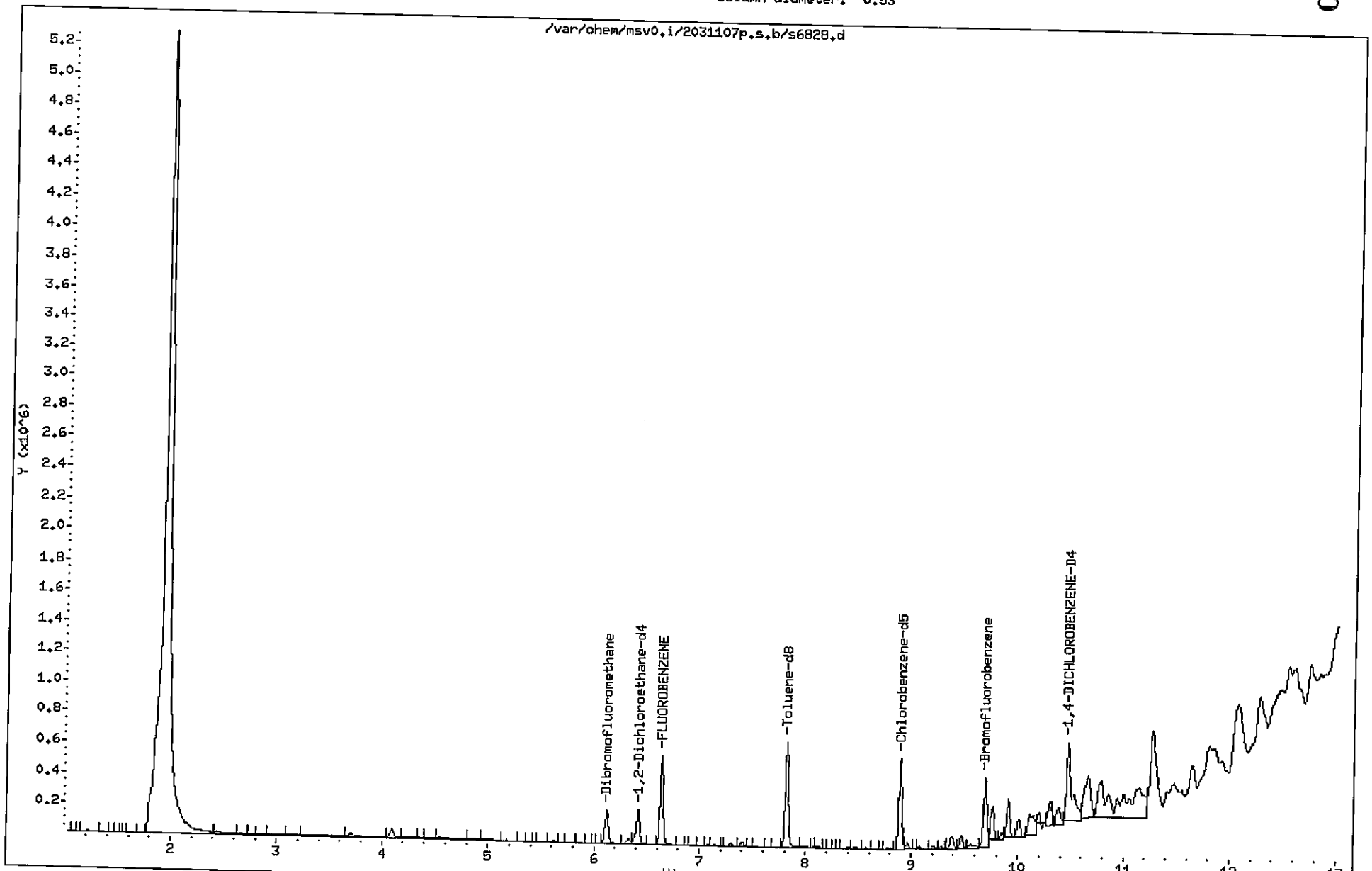
Data File: /var/chem/msv0.i/2031107p.s.b/s6828.d
Date : 07-NOV-2003 20:17
Client ID: 86-B7-S-1105-03
Sample Info: 20311062401M86-B7-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000087



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6829.d
Lab Smp Id: 20311062402
Inj Date : 07-NOV-2003 20:39
Client Smp ID: 86-B31-S-1105-03
Operator : KRV
Smp Info : 20311062402*86-B31-S-1105-03
Inst ID: msv0.i
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo
Cal Date : 07-NOV-2003 11:09
Quant Type: ISTD
Als bottle: 4
Cal File: s6806.d
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Compound Sublist: BTEXS+MTBE+LCS.sub
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	5.44000	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	6.124	6.124	(0.922)	180804	53.6775	49.3	4919
32 1,2-Dichloroethane-d4	67	6.420	6.426	(0.966)	97774	51.8627	47.7	9520
35 FLUOROBENZENE	96	6.644	6.644	(1.000)	654770	50.0000		9478
46 Toluene-d8	98	7.816	7.822	(0.879)	634397	51.8305	47.6	8820
58 CHLOROBENZENE-d5	82	8.895	8.902	(1.000)	283857	50.0000		8917
67 Bromofluorobenzene	174	9.699	9.705	(1.090)	161136	45.6540	42.0	8371
81 1,4-DICHLOROBENZENE-D4	152	10.469	10.482	(1.000)	167386	50.0000		9493

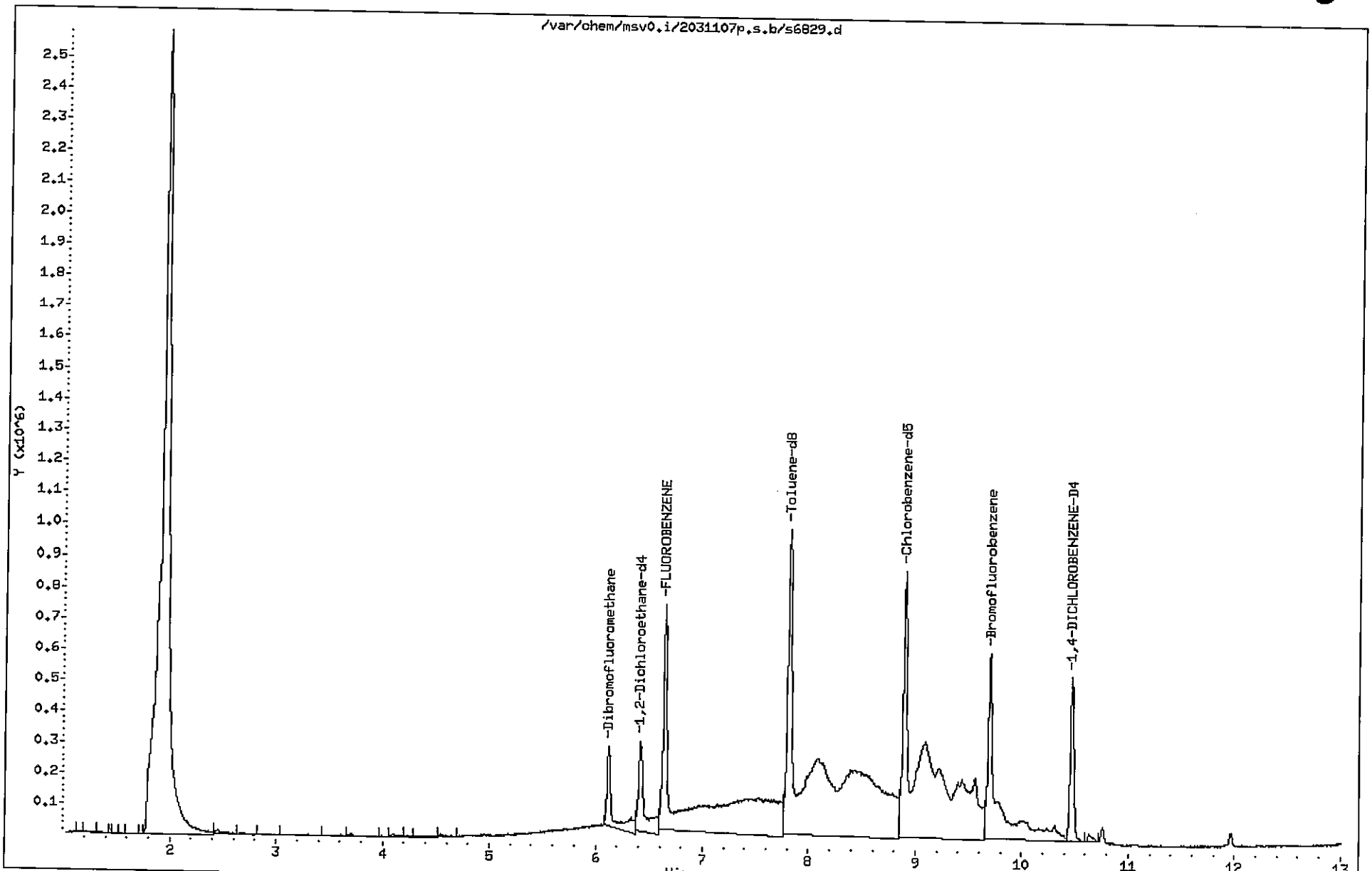
Data File: /var/chem/msv0.i/2031107p.s.b/s6829.d
Date : 07-NOV-2003 20:39
Client ID: B6-B31-S-1105-03
Sample Info: 20311062402MB6-B31-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000069



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0404.d
Lab Smp Id: 20311062403 Client Smp ID: 86-B41-S-1105-03
Inj Date : 10-NOV-2003 10:59
Operator : RJO Inst ID: msv2.i
Smp Info : 20311062403*86-B41-S-1105-03
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 7
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: btexs+mtbe+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	6.98000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

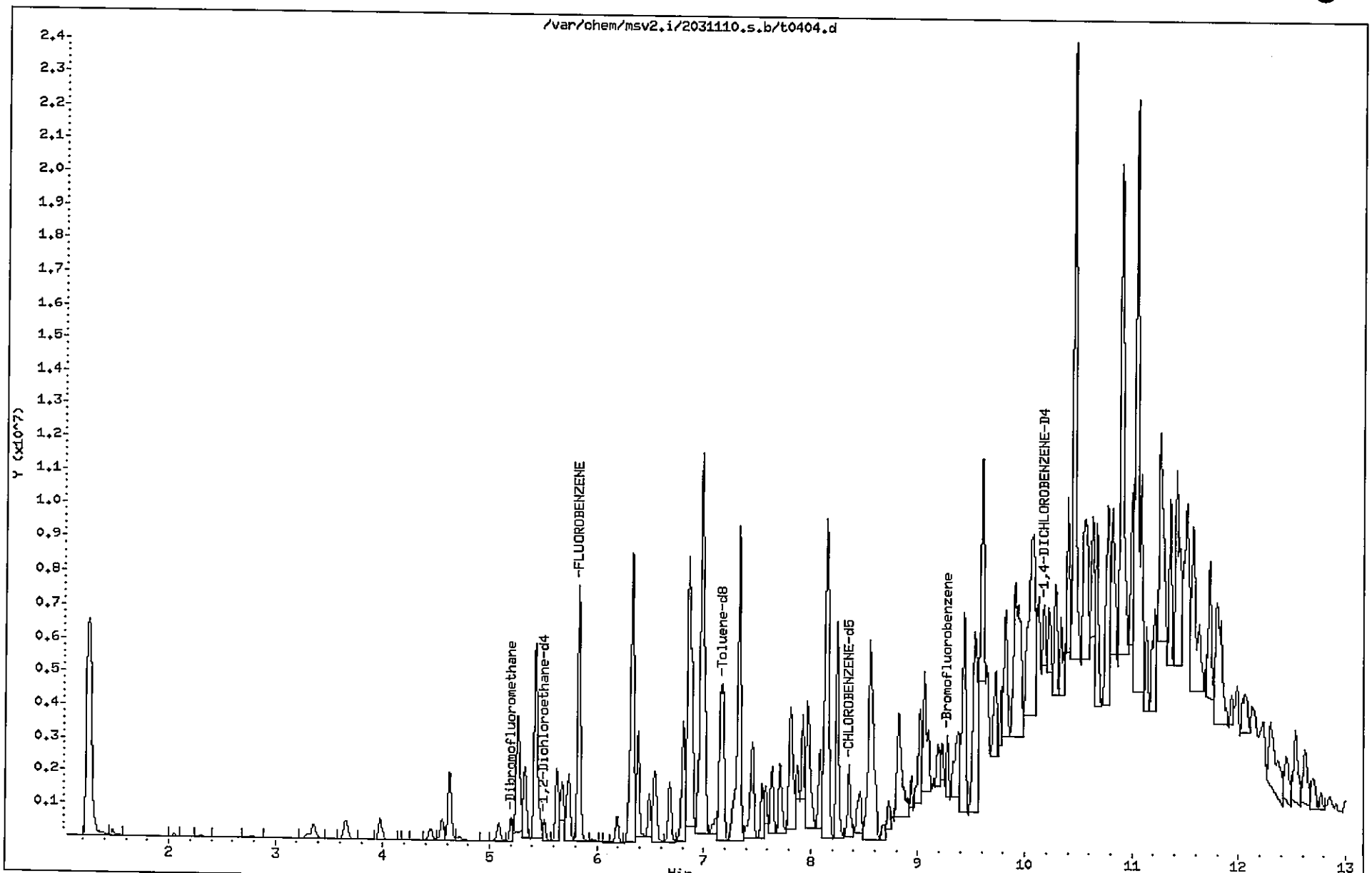
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
74 p,m-Xylene	106	8.550	8.544	(1.024)	690754	36.7813	1320
109 TOTAL XYLENE	106				690754	36.7813	1320
44 1,2-Dichloroethane-d4	67	5.514	5.514	(0.947)	200256	46.4652	1660
38 Dibromofluoromethane	111	5.203	5.197	(0.893)	423450	46.2894	1660
47 FLUOROBENZENE	96	5.824	5.824	(1.000)	1616574	50.0000	
58 Toluene-d8	98	7.184	7.178	(0.860)	1689748	52.0595	1860
70 Chlorobenzene-d5	82	8.352	8.346	(1.000)	666320	50.0000	
81 Bromofluorobenzene	174	9.283	9.277	(0.913)	482124	39.8072	1430
99 1,4-DICHLOROBENZENE-D4	152	10.168	10.168	(1.000)	692627	50.0000	

Data File: /var/chem/msv2.i/2031110.s.b/t0404.d
Date : 10-NOV-2003 10:59
Client ID: 86-B41-S-1105-03
Sample Info: 20311062403M86-B41-S-1105-03
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000091



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Date : 10-NOV-2003 10:59

Client ID: 86-B41-S-1105-03

Instrument: msv2.i

Sample Info: 20311062403*86-B41-S-1105-03

Purge Volume: 5.0

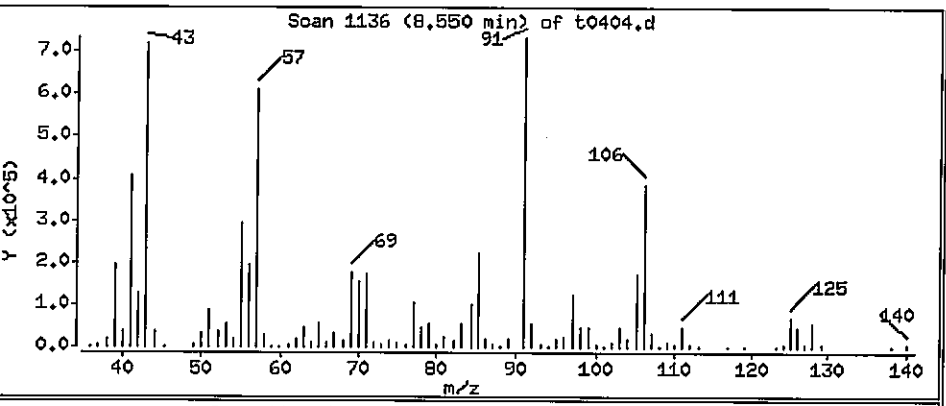
Operator: RJO

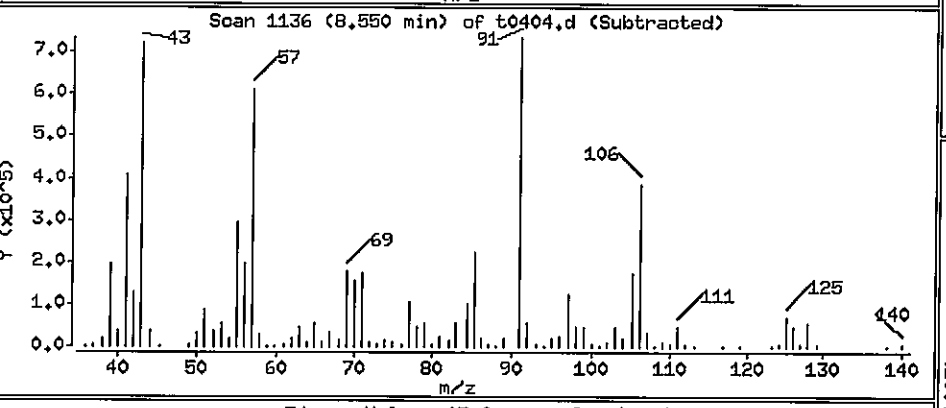
Column phase: DB-624-30M

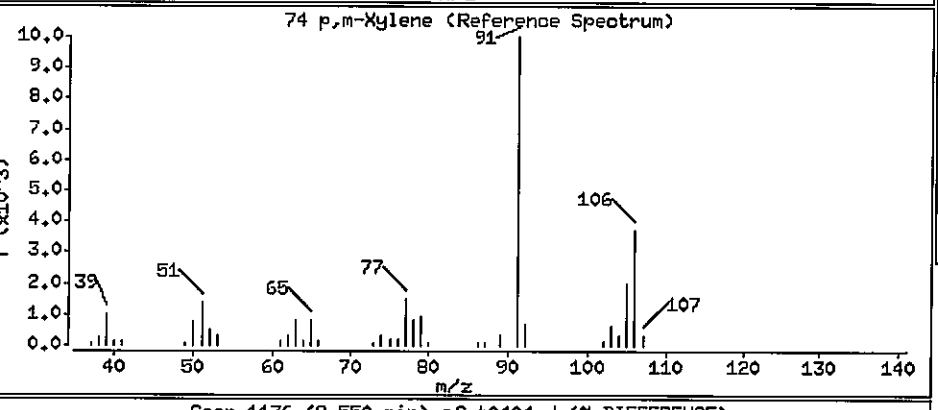
Column diameter: 0.53

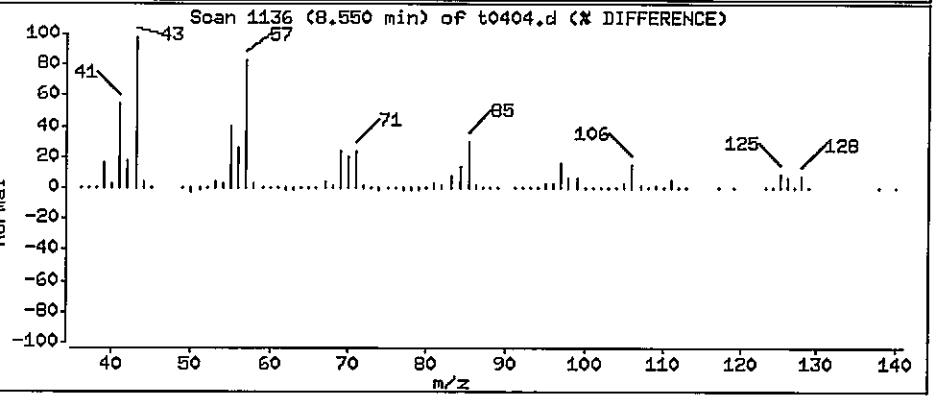
74 p,m-Xylene

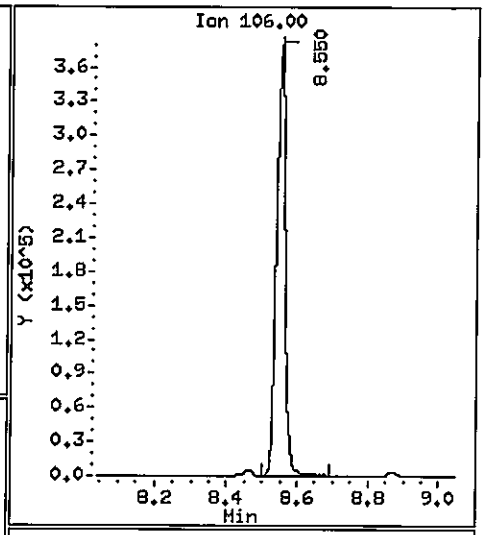
Concentration: 1320 UG/KG

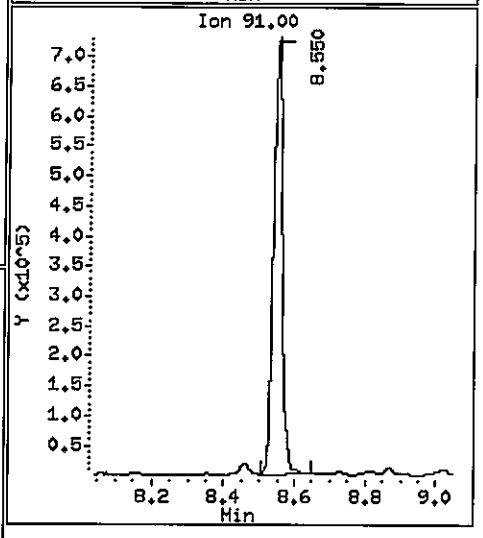












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6831.d
Lab Smp Id: 20311062404 Client Smp ID: 86-B70-S-1105-03
Inj Date : 07-NOV-2003 21:23
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062404*86-B70-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.58000	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	6.113	6.124	(0.921)	145880	51.4396	46.1	7330
32 1,2-Dichloroethane-d4	67	6.416	6.426	(0.966)	77392	48.7579	43.7	9189
33 Benzene	78	6.409	6.420	(0.965)	66762	5.51697	4.94	6551
35 FLUOROBENZENE	96	6.640	6.644	(1.000)	551279	50.0000		9637
46 Toluene-d8	98	7.812	7.822	(0.879)	540492	54.2016	48.6	8473
47 Toluene +	91	7.864	7.868	(0.884)	231202	17.6756	15.8	9105
58 CHLOROBENZENE-d5	82	8.891	8.902	(1.000)	231260	50.0000		8634
67 Bromofluorobenzene	174	9.694	9.705	(1.090)	136028	47.3057	42.4	6492
81 1,4-DICHLOROBENZENE-D4	152	10.465	10.482	(1.000)	192055	50.0000		7907
61 Ethylbenzene +	106	8.951	8.954	(1.007)	5945	1.37028	1.23	4341(H)
62 p,m-Xylene	106	9.023	9.033	(1.015)	71357	12.8295	11.5	9052
63 o-Xylene	106	9.313	9.316	(1.047)	19300	3.64380	3.27	
84 TOTAL XYLENE	106				90657	16.4733	14.8	0

QC Flag Legend

H - Operator selected an alternate compound hit.

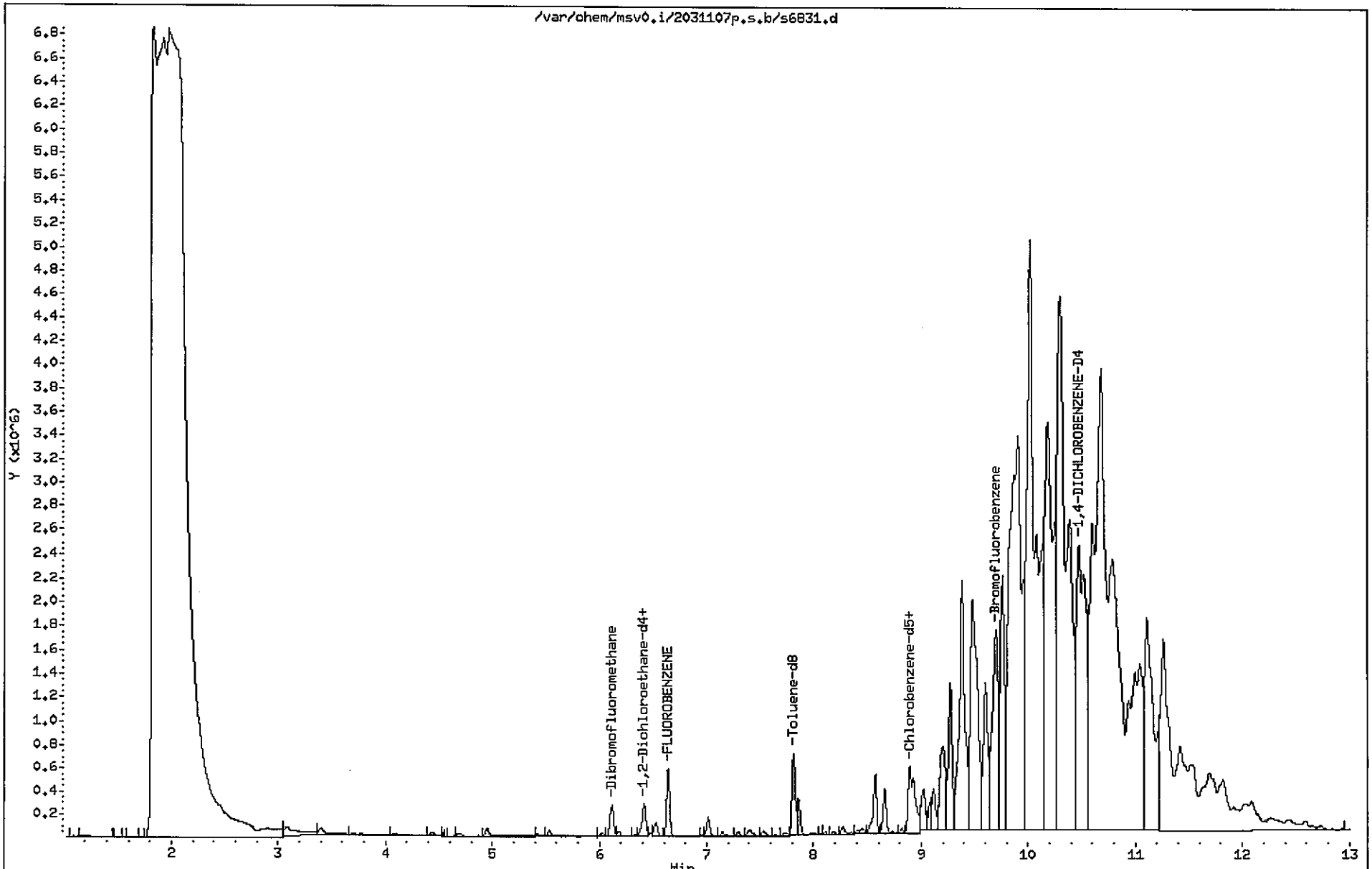
Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d
Date : 07-NOV-2003 21:23
Client ID: 86-B70-S-1105-03
Sample Info: 20311062404M86-B70-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000095



Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d

Date : 07-NOV-2003 21:23

Client ID: 86-B70-S-1105-03

Instrument: msv0.i

Sample Info: 20311062404*86-B70-S-1105-03

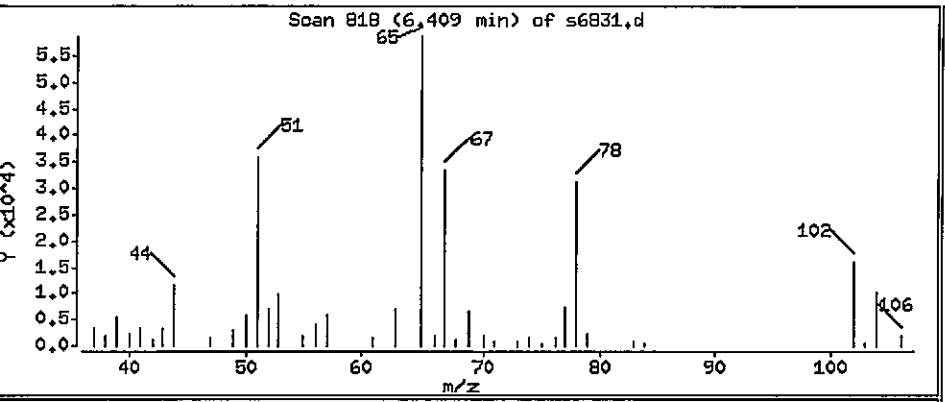
Operator: KRV

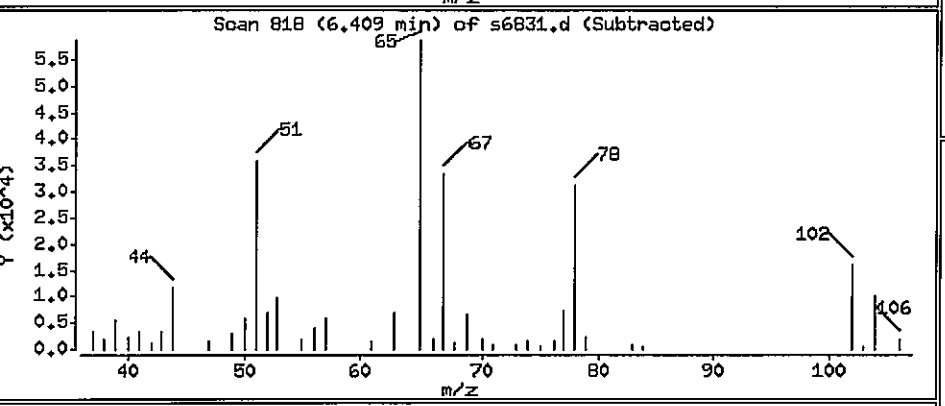
Column phase: DB-624-30M

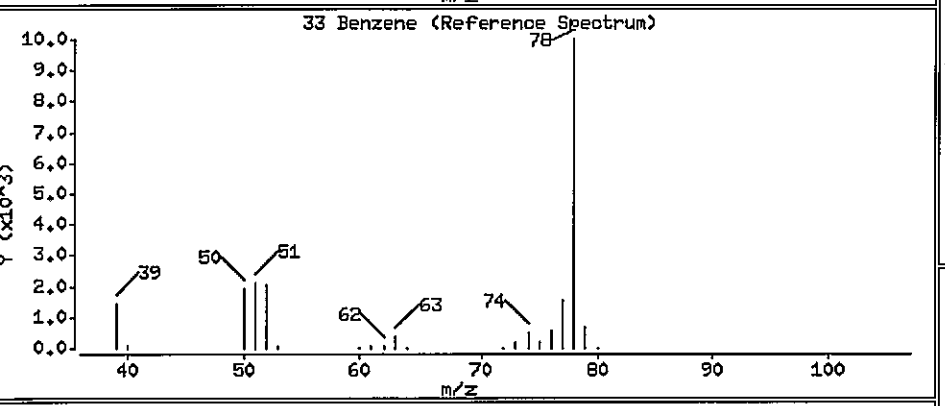
Column diameter: 0.53

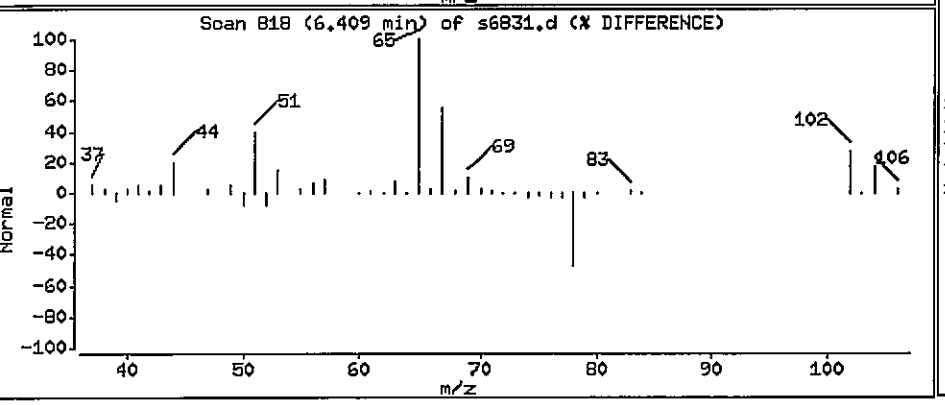
33 Benzene

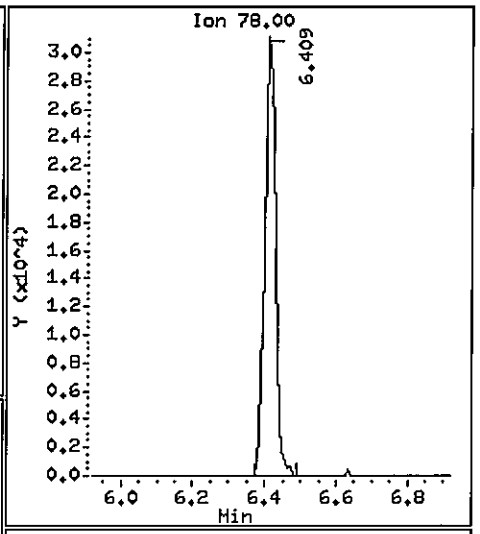
Concentration: 4.94 ug/Kg

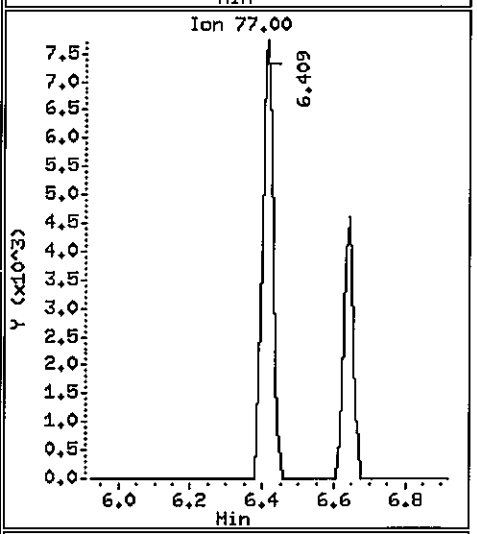


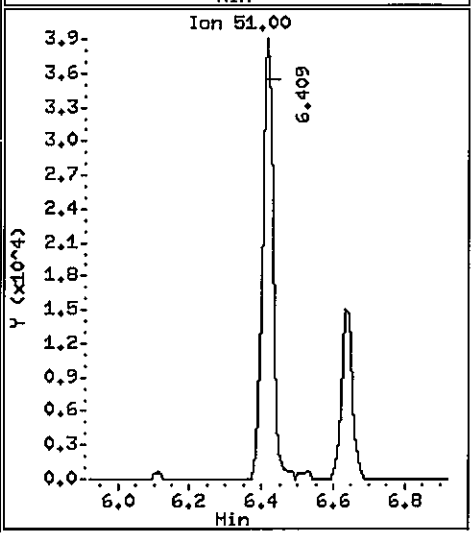












Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d

Date : 07-NOV-2003 21:23

Client ID: 86-B70-S-1105-03

Instrument: msv0.i

Sample Info: 20311062404x86-B70-S-1105-03

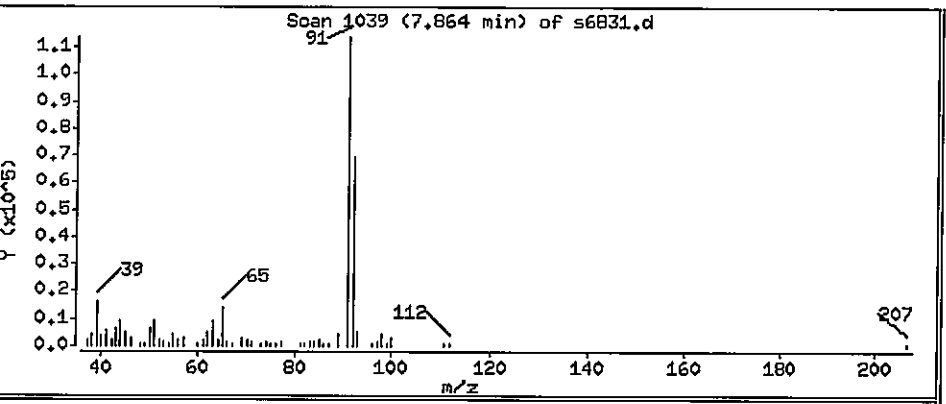
Operator: KRV

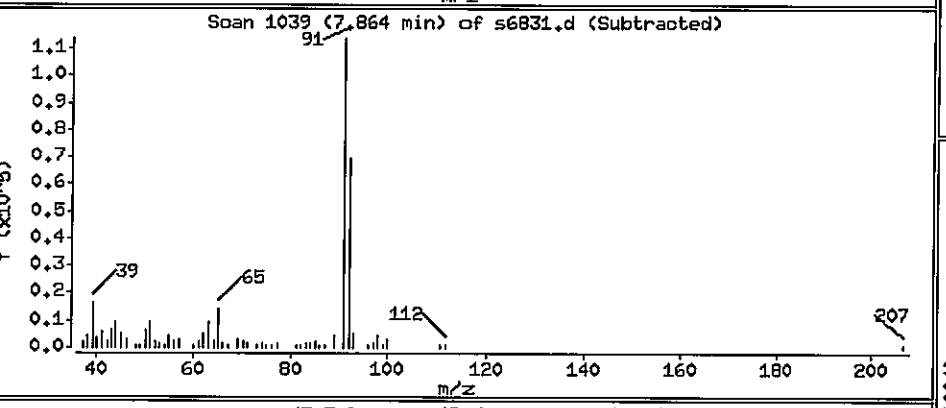
Column phase: DB-624-30M

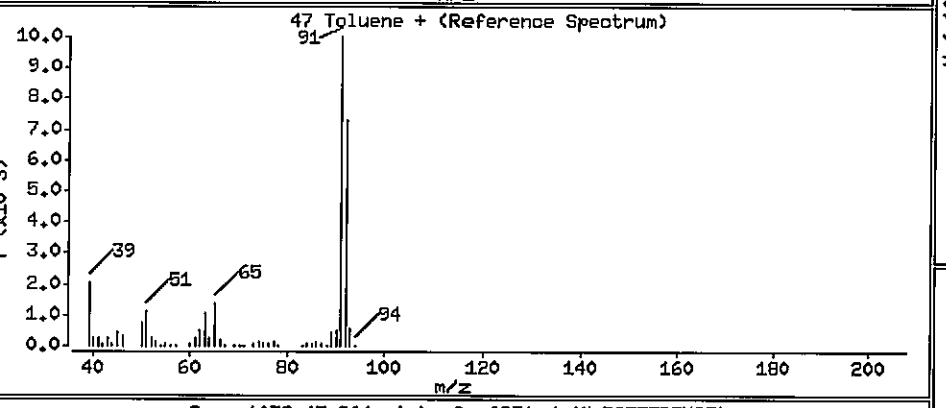
Column diameter: 0.53

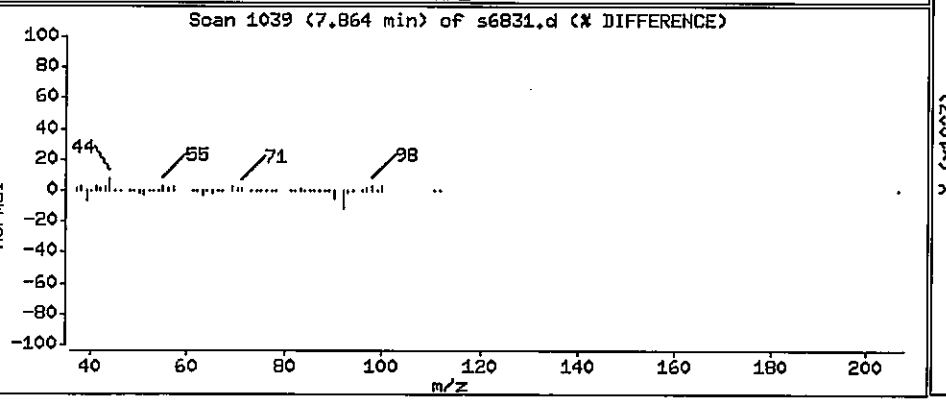
47 Toluene +

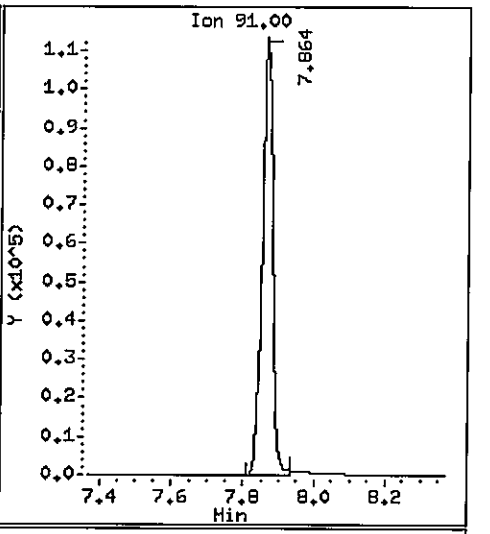
Concentration: 15.8 ug/Kg

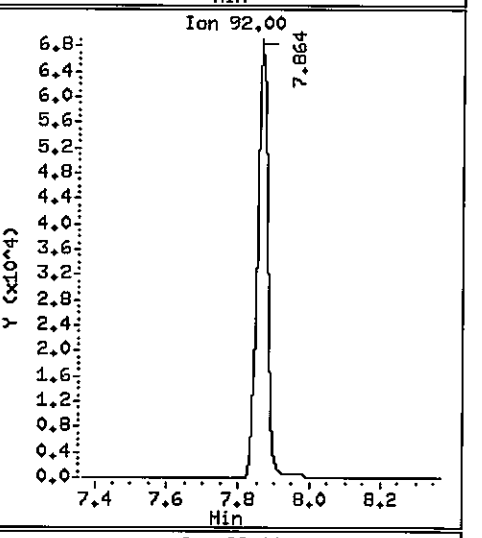


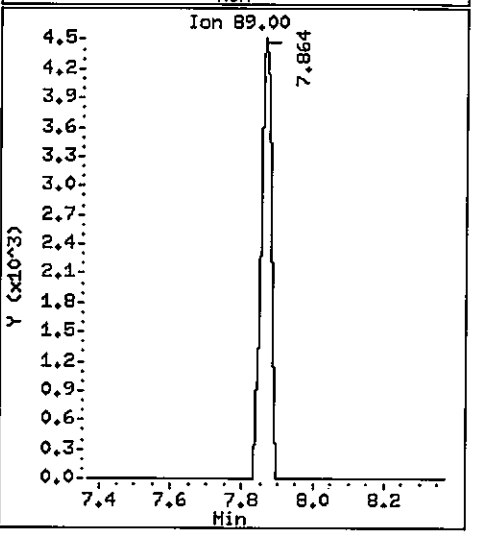












Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d

Date : 07-NOV-2003 21:23

Client ID: 86-B70-S-1105-03

Instrument: msv0.i

Sample Info: 20311062404x86-B70-S-1105-03

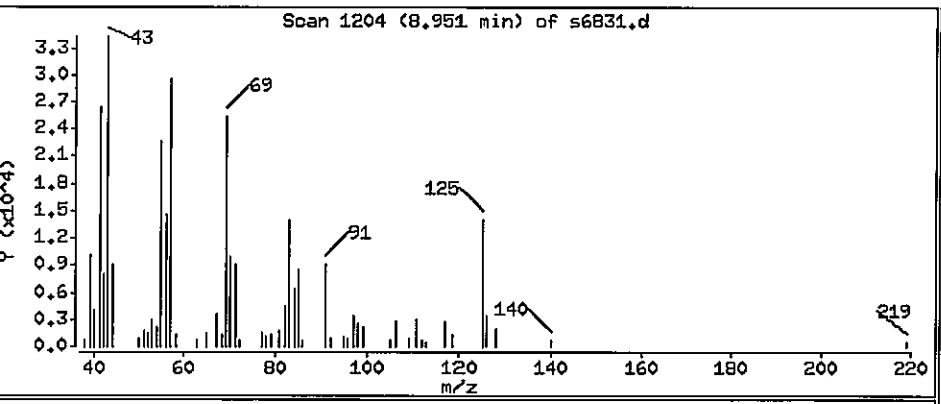
Operator: KRV

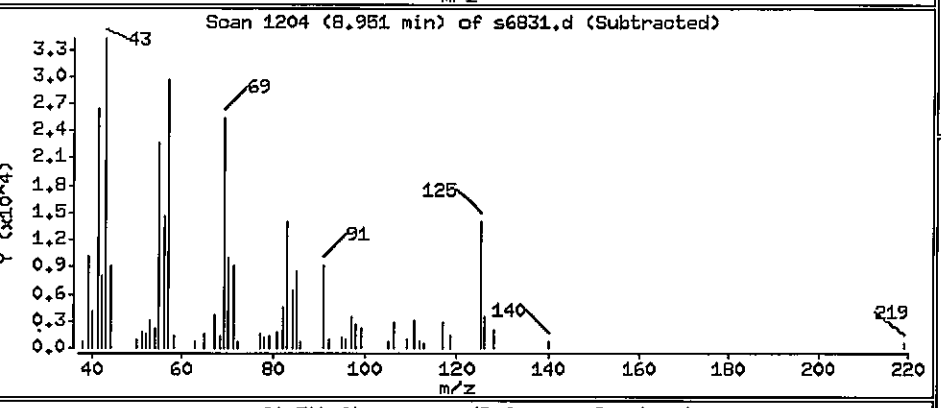
Column phase: DB-624-30M

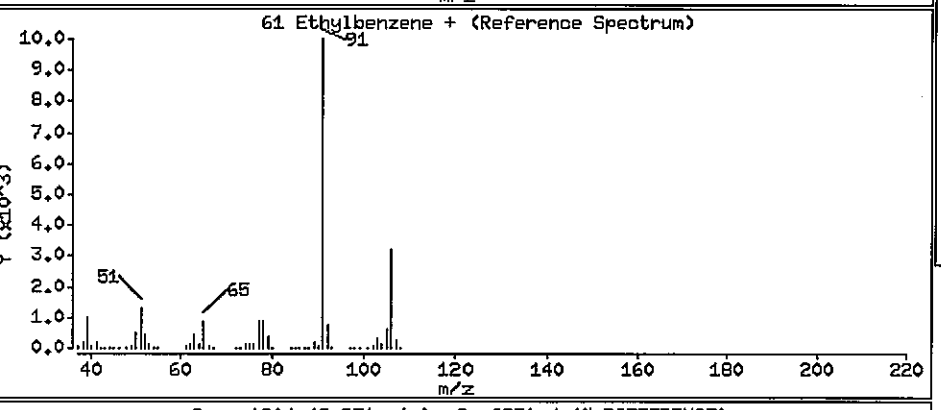
Column diameter: 0.53

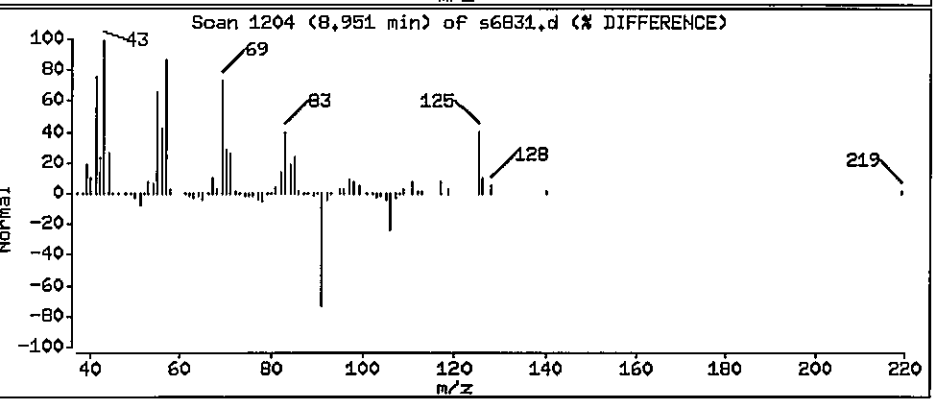
61 Ethylbenzene +

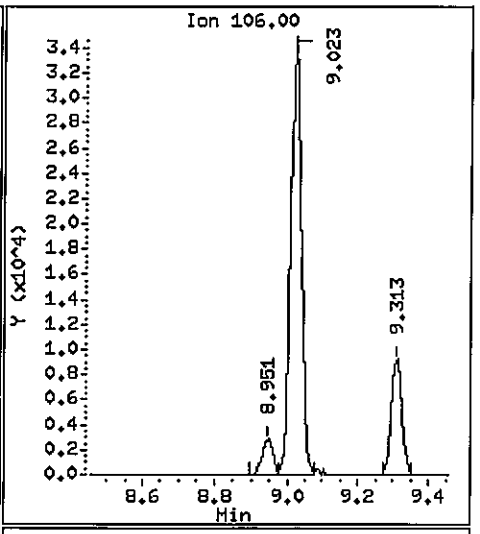
Concentration: 1.23 ug/Kg

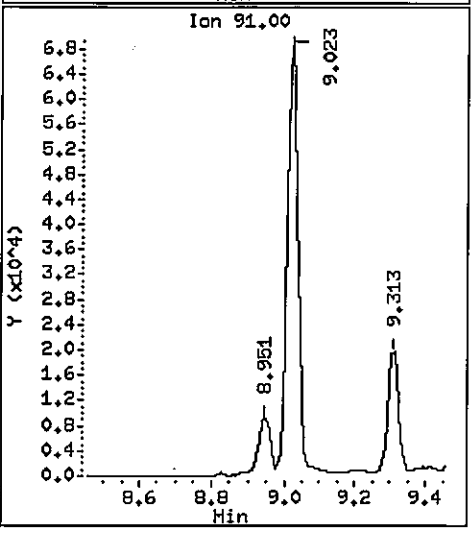












Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d

Date : 07-NOV-2003 21:23

Client ID: B6-B70-S-1105-03

Instrument: msv0.i

Sample Info: 20311062404X86-B70-S-1105-03

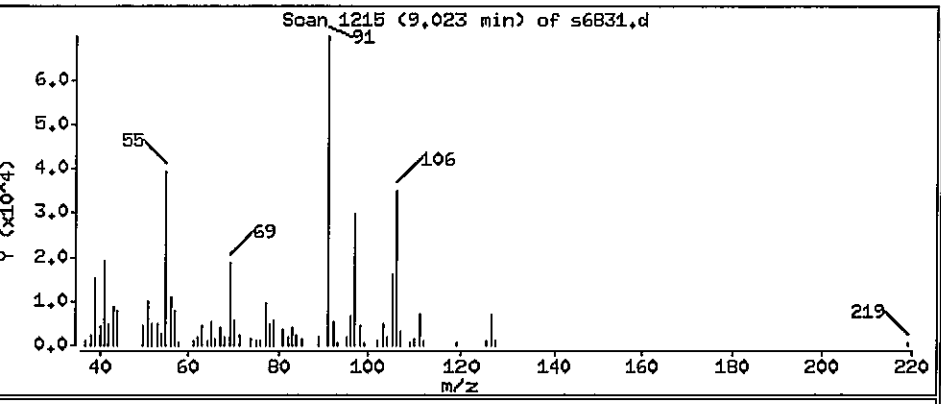
Operator: KRV

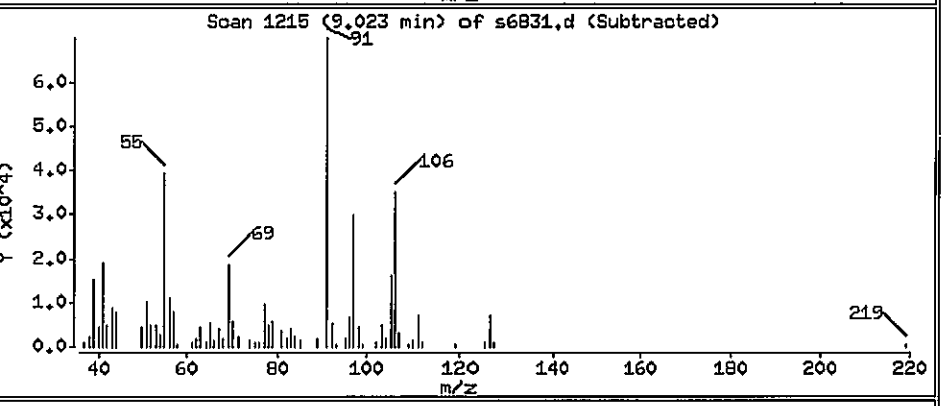
Column phase: DB-624-30M

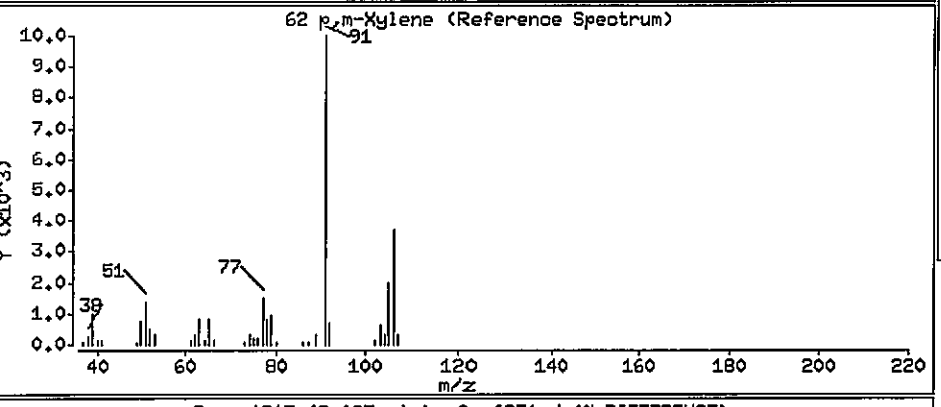
Column diameter: 0.53

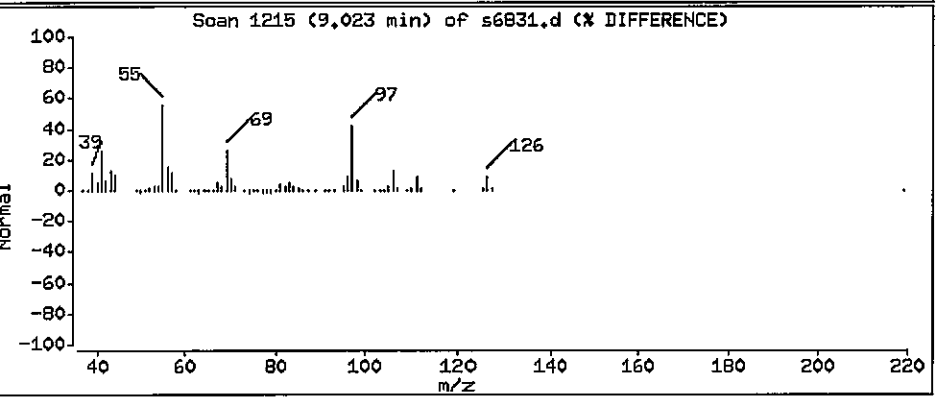
62 p,m-Xylene

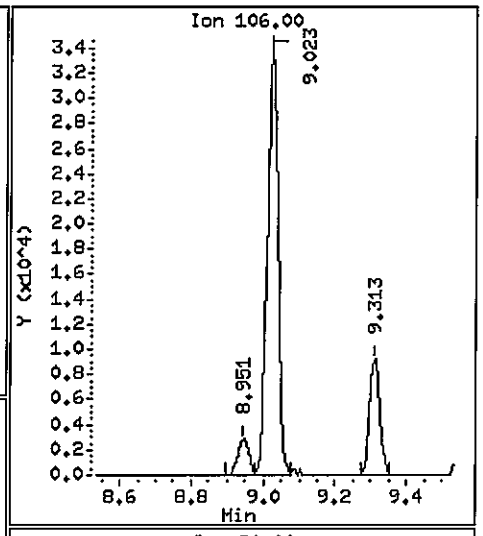
Concentration: 11.5 ug/Kg

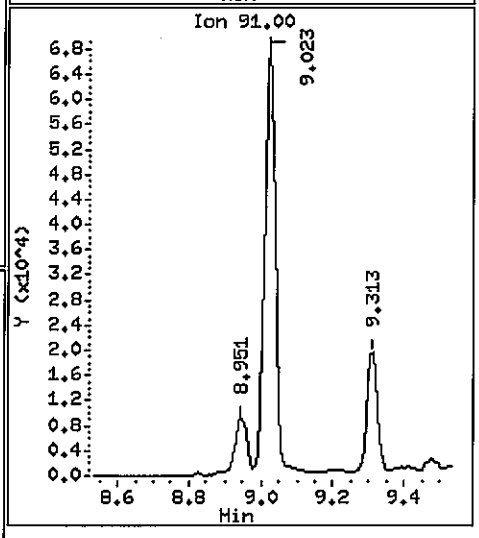












Data File: /var/chem/msv0.i/2031107p.s.b/s6831.d

Date : 07-NOV-2003 21:23

Client ID: 86-B70-S-1105-03

Instrument: msv0.i

Sample Info: 20311062404X86-B70-S-1105-03

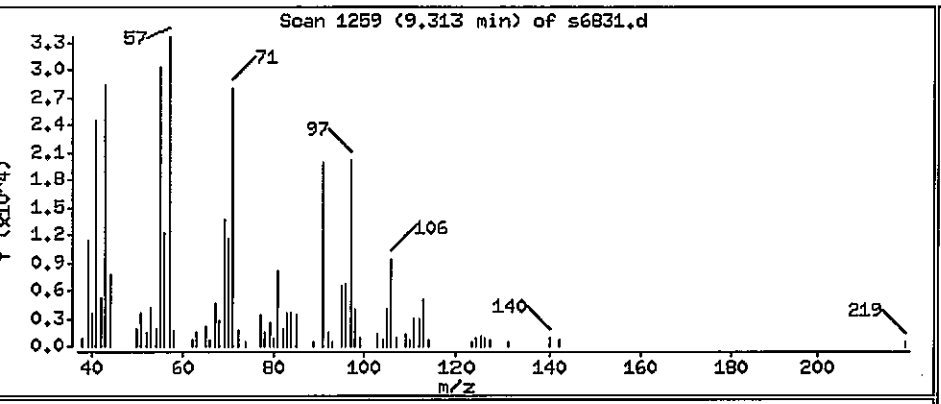
Operator: KRV

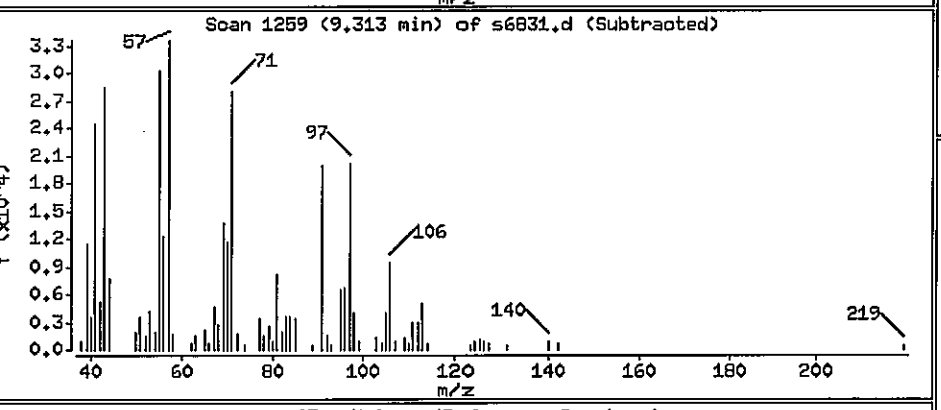
Column phase: DB-624-30M

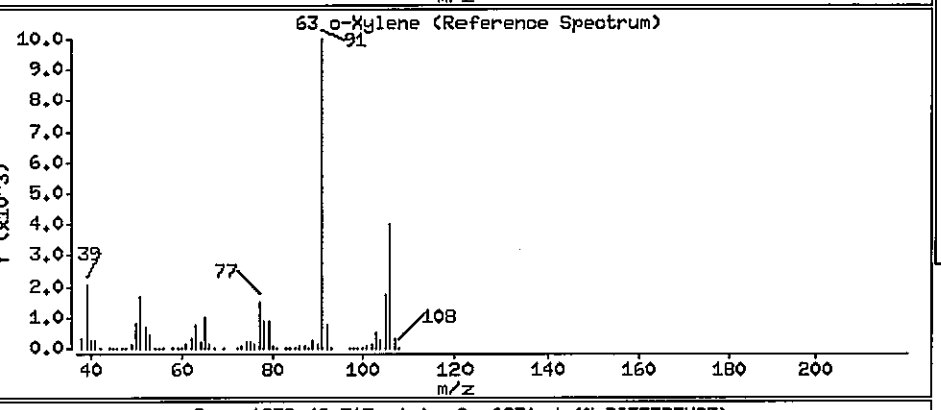
Column diameter: 0.53

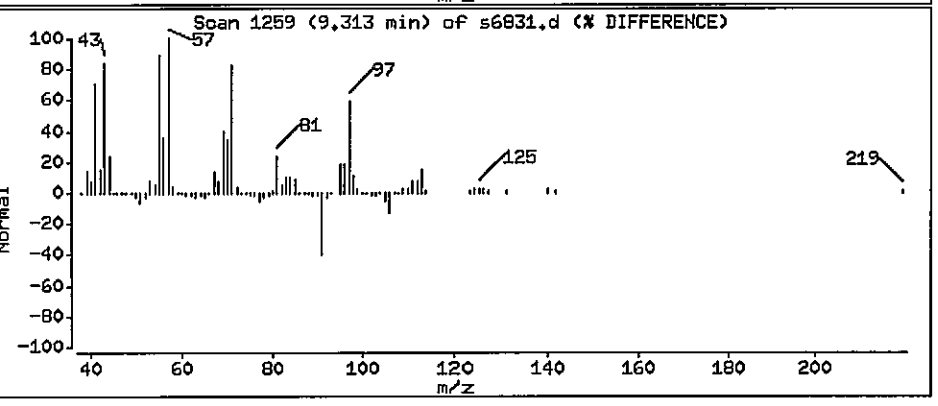
63 o-Xylene

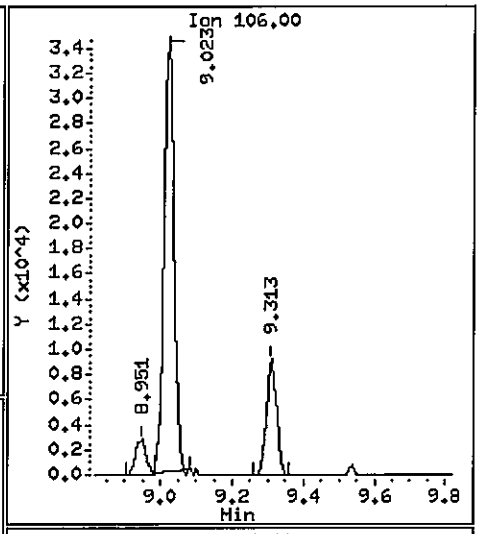
Concentration: 3.27 ug/Kg

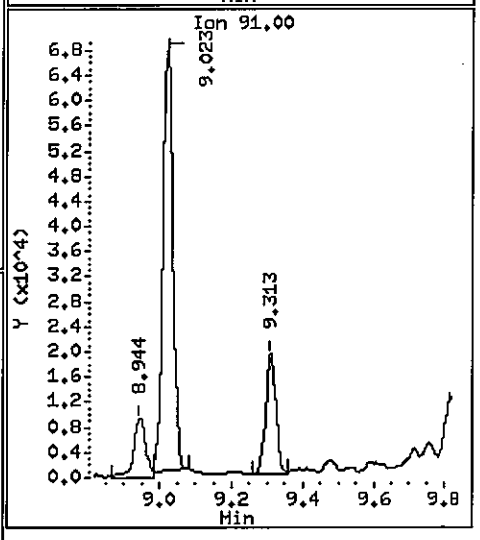












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0405.d
Lab Smp Id: 20311062405 Client Smp ID: 86-B96-S-1105-03
Inj Date : 10-NOV-2003 11:24
Operator : RJO Inst ID: msv2.i
Smp Info : 20311062405*86-B96-S-1105-03
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 8
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: btexs+mtbe+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	4.75000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

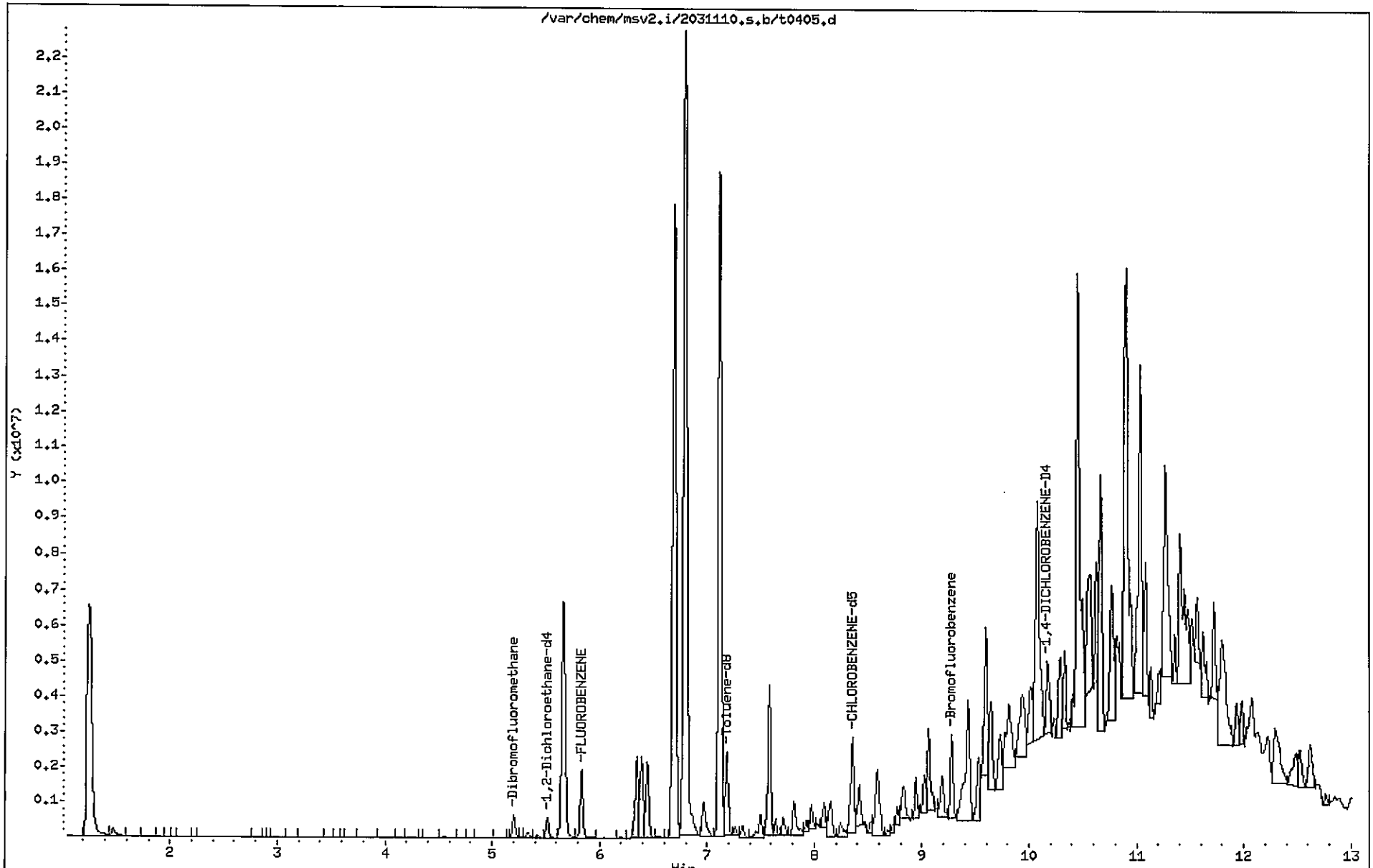
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
73 Ethylbenzene +	106	8.461	8.452	(1.013)	14574	1.03217	54.3
44 1,2-Dichloroethane-d4	67	5.517	5.514	(0.946)	196883	45.3083	2380
38 Dibromofluoromethane	111	5.206	5.197	(0.892)	419596	45.4924	2390
47 FLUOROBENZENE	96	5.834	5.824	(1.000)	1629926	50.0000	
58 Toluene-d8	98	7.187	7.178	(0.860)	1490551	49.2445	2590
70 Chlorobenzene-d5	82	8.356	8.346	(1.000)	621369	50.0000	
81 Bromofluorobenzene	174	9.287	9.277	(0.913)	483493	44.8694	2360
99 1,4-DICHLOROBENZENE-D4	152	10.171	10.168	(1.000)	616230	50.0000	

Data File: /var/chem/msv2.i/2031110.s.b/t0405.d
Date : 10-NOV-2003 11:24
Client ID: 86-B96-S-1105-03
Sample Info: 20311062405X86-B96-S-1105-03
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000102



Data File: /var/chem/msv2.i/2031110.s.b/t0405.d

Date : 10-NOV-2003 11:24

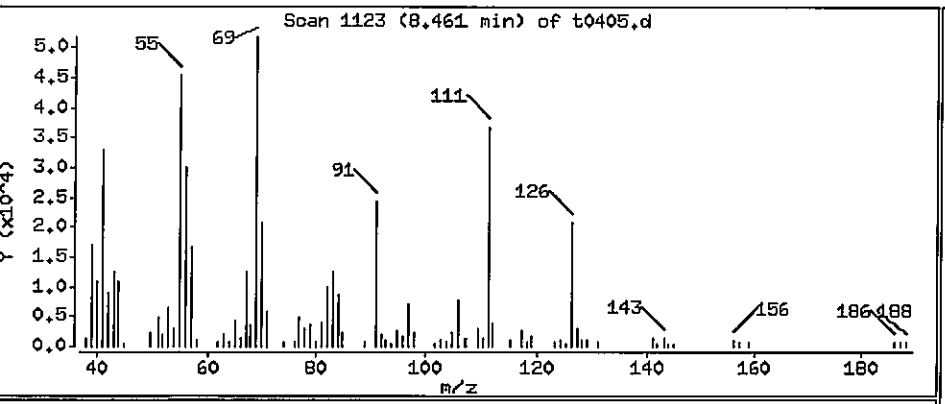
Client ID: B6-B96-S-1105-03 Instrument: msv2.i

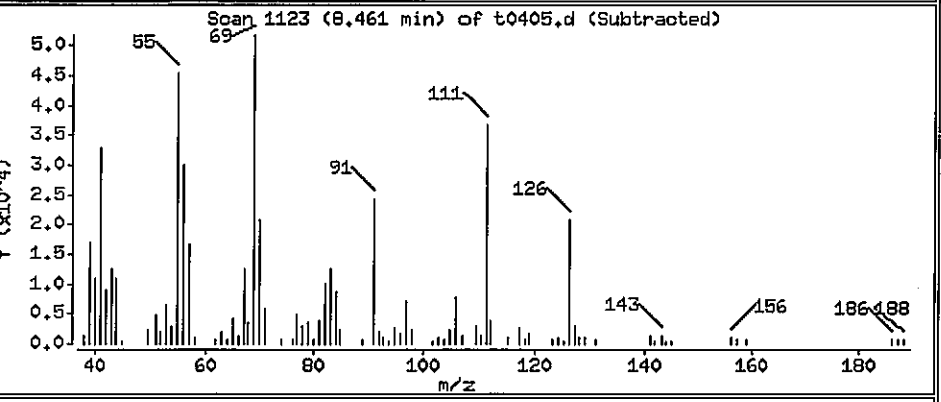
Sample Info: 20311062405xB6-B96-S-1105-03

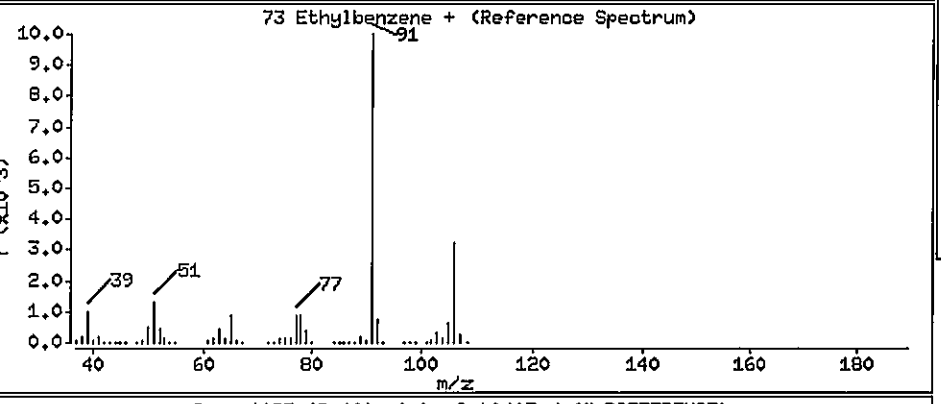
Purge Volume: 5.0 Operator: RJO

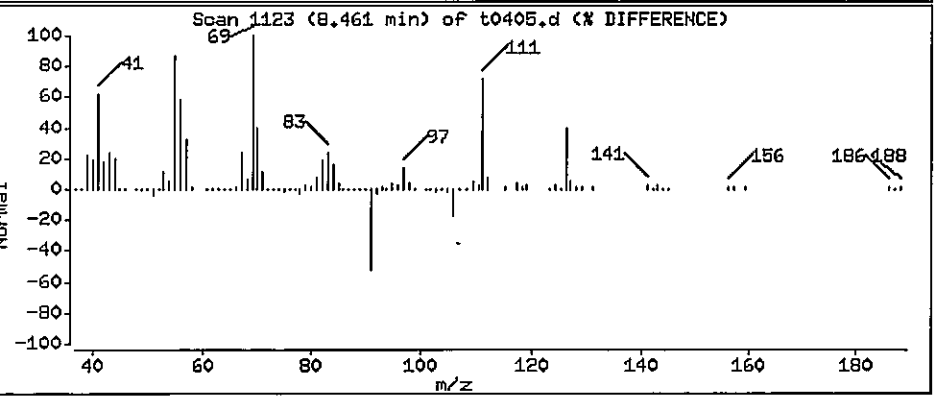
Column phase: DB-624-30M Column diameter: 0.53

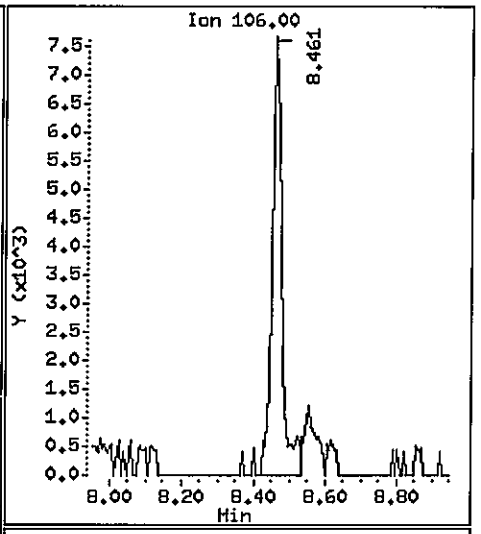
73 Ethylbenzene + Concentration: 54.3 UG/KG

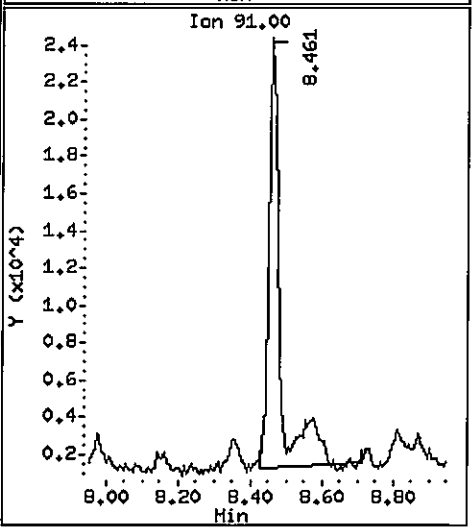












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6833.d
Lab Smp Id: 20311062406 Client Smp ID: 86-B99-S-1105-03
Inj Date : 07-NOV-2003 22:08
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062406*86-B99-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.55000	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	6.121	6.124	(0.922)	156984	51.5198	46.4	6195
32 1,2-Dichloroethane-d4	67	6.417	6.426	(0.966)	115658	67.8175	61.1	8344
35 FLUOROBENZENE	96	6.641	6.644	(1.000)	592317	50.0000		9524
46 Toluene-d8	98	7.813	7.822	(0.879)	551139	50.9154	45.9	8542
47 Toluene +	91	7.865	7.868	(0.884)	17815	1.25468	1.13	5786
58 CHLOROBENZENE-d5	82	8.892	8.902	(1.000)	251036	50.0000		8627
59 Chlorobenzene ++	112	8.978	8.921	(1.010)	50331	5.65442	5.09	2648
67 Bromofluorobenzene	174	9.695	9.705	(1.090)	143289	45.9053	41.4	7458
81 1,4-DICHLOROBENZENE-D4	152	10.466	10.482	(1.000)	148541	50.0000		7880
61 Ethylbenzene +	106	8.945	8.954	(1.006)	8566	1.81886	1.64	5133(H)
62 p,m-Xylene	106	9.024	9.033	(1.015)	35034	5.80265	5.23	8039
63 o-Xylene	106	9.307	9.316	(1.047)	16426	2.85689	2.57	
84 TOTAL XYLENE	106				51460	8.65954	7.80	0

QC Flag Legend

H - Operator selected an alternate compound hit.

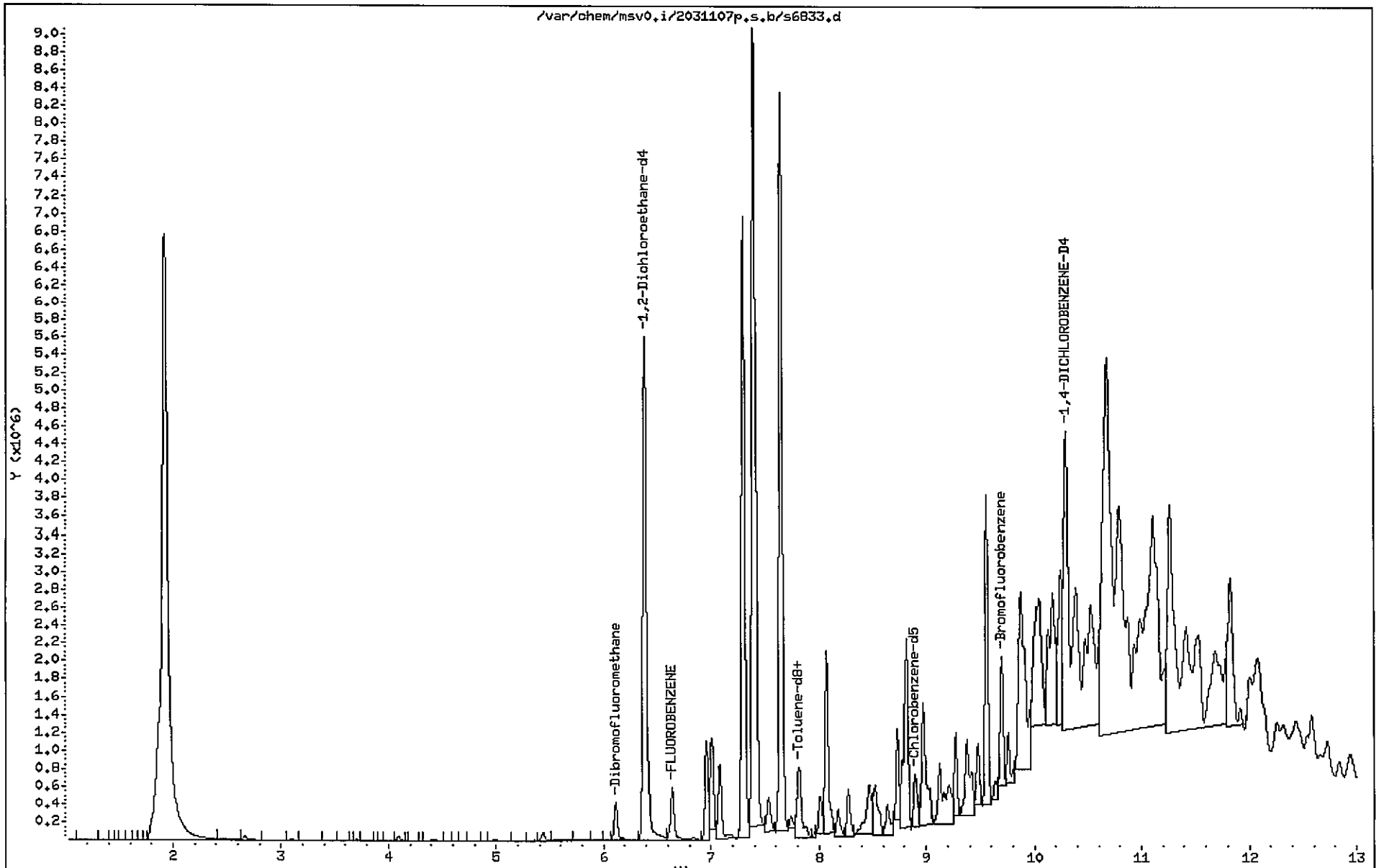
Data File: /var/chem/msv0.i/2031107p.s.b/s6833.d
Date : 07-NOV-2003 22:08
Client ID: 86-B99-S-1105-03
Sample Info: 20311062406M86-B99-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000106



Data File: /var/chem/msv0.i/20311107p.s.b/s6833.d

Date : 07-NOV-2003 22:08

Client ID: 86-B99-S-1105-03

Instrument: msv0.i

Sample Info: 20311062406M86-B99-S-1105-03

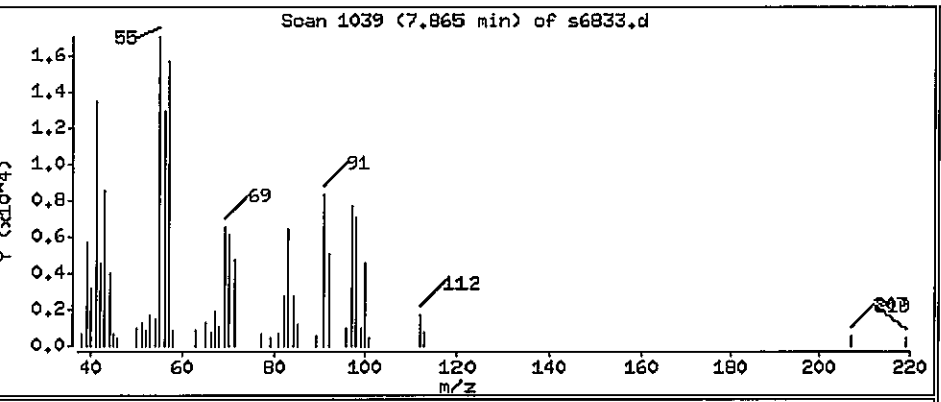
Operator: KRV

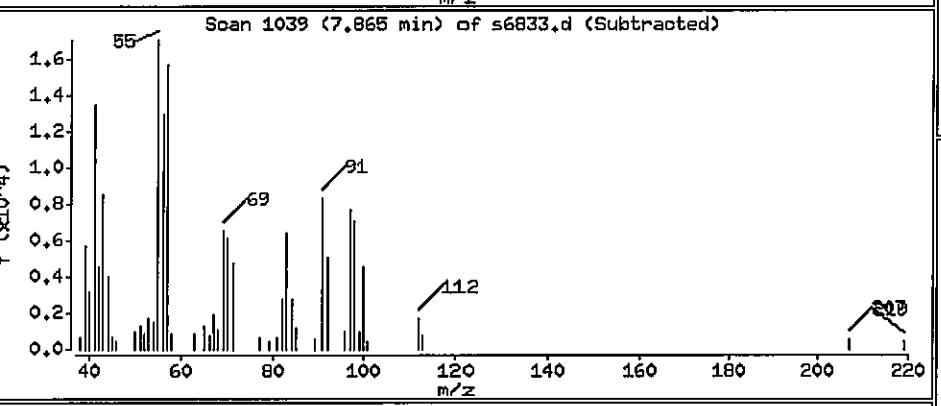
Column phase: DB-624-30M

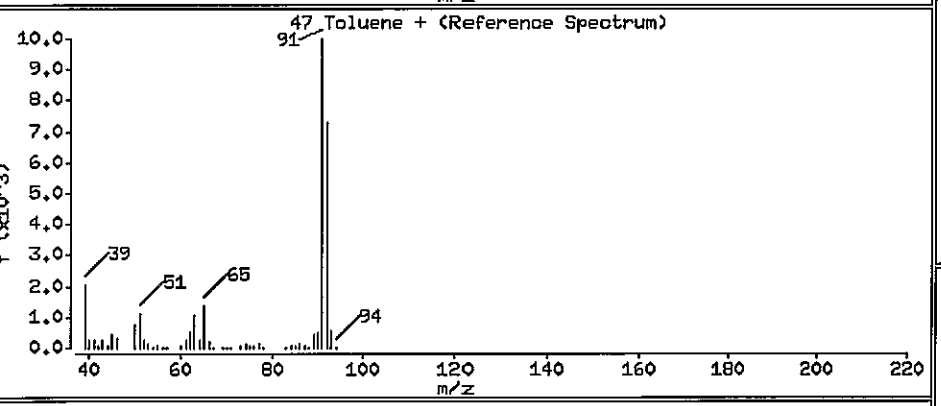
Column diameter: 0.53

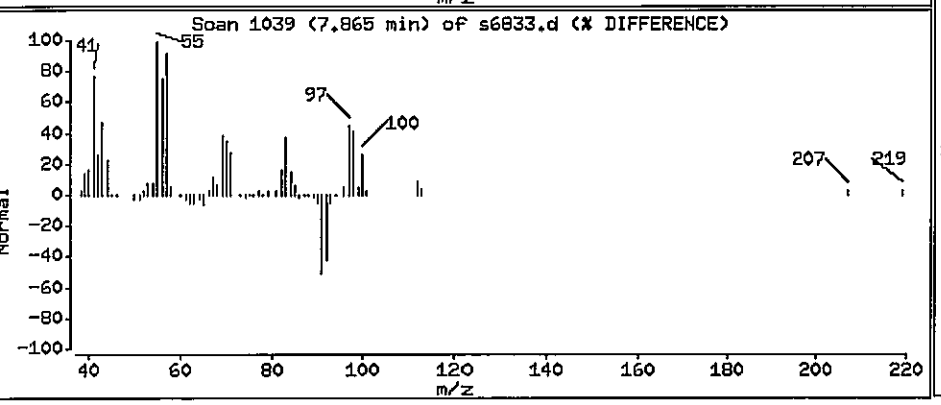
47 Toluene +

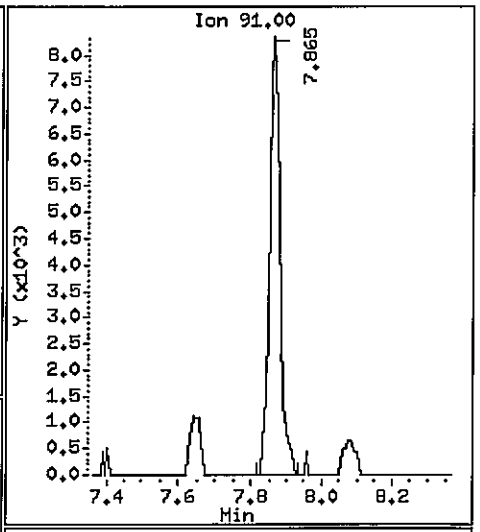
Concentration: 1.13 ug/Kg

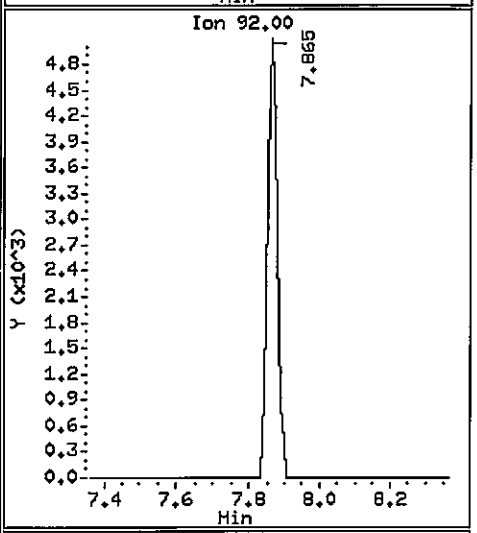


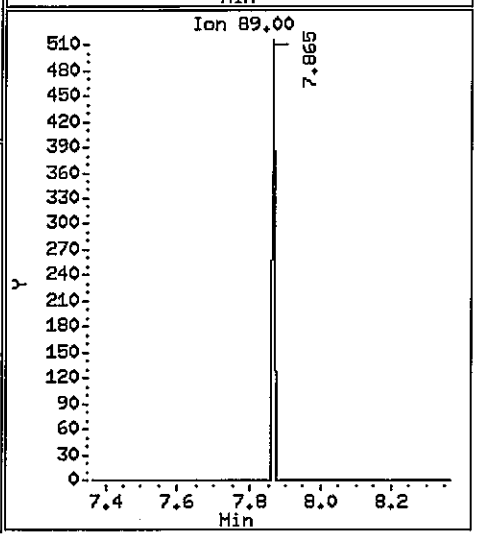












Data File: /var/chem/msv0.i/2031107p.s.b/s6833.d

Date : 07-NOV-2003 22:08

Client ID: B6-B99-S-1105-03

Instrument: msv0.i

Sample Info: 20311062406MB6-B99-S-1105-03

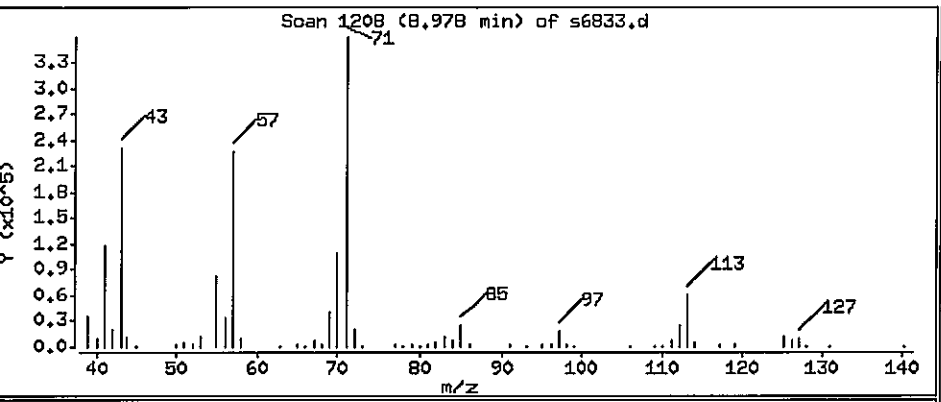
Operator: KRV

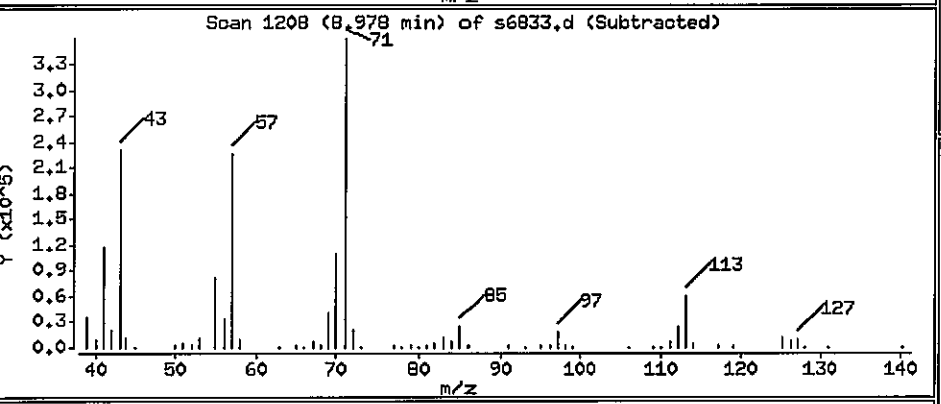
Column phase: DB-624-30M

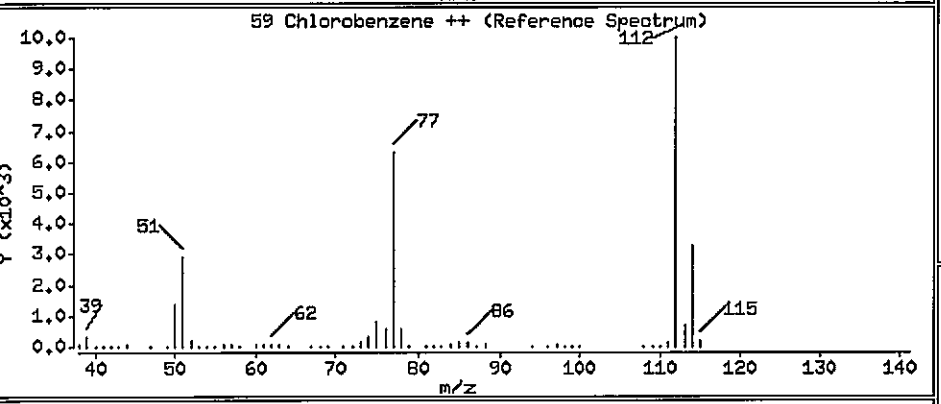
Column diameter: 0.53

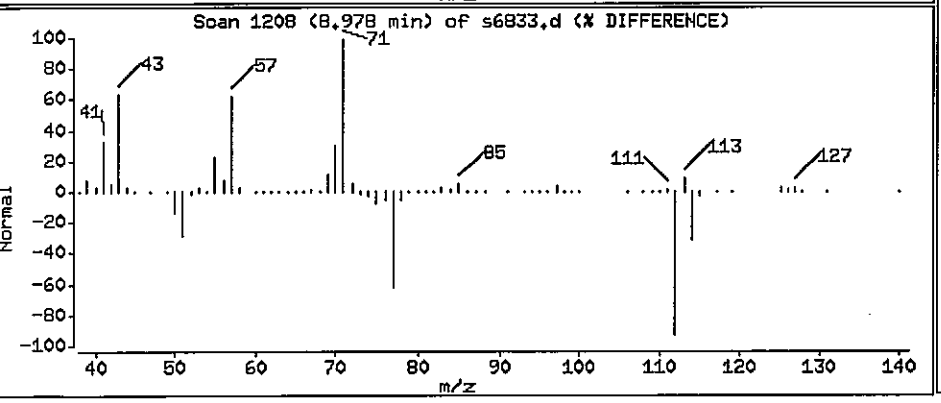
59 Chlorobenzene ++

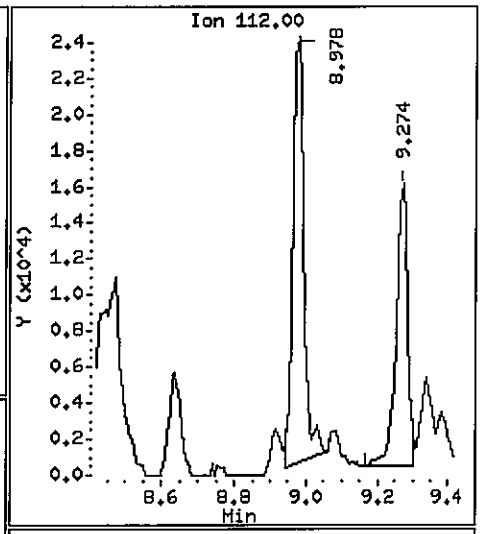
Concentration: 5.09 ug/Kg

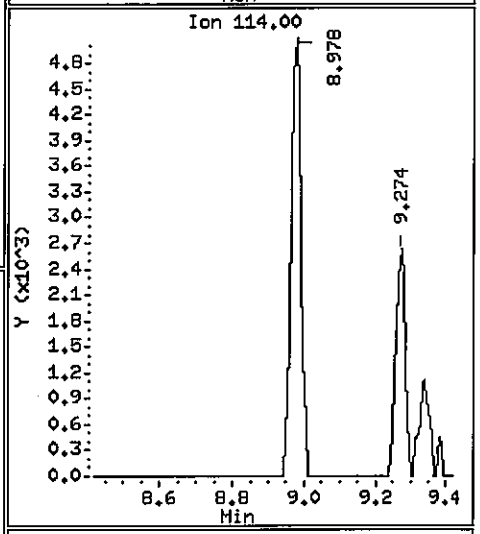


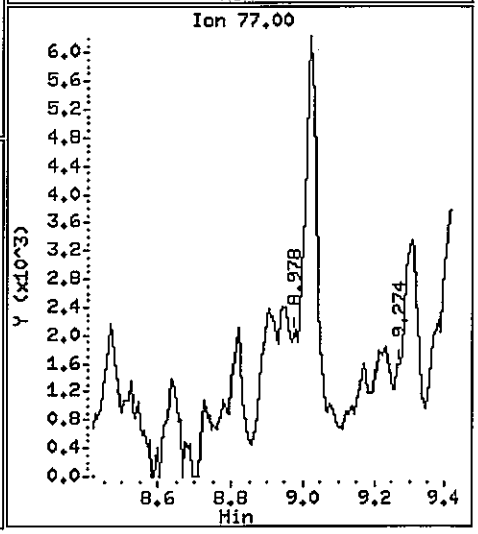












Data File: /var/chem/msv0.i/2031107p.s.b/s6833.d

Date : 07-NOV-2003 22:08

Client ID: 86-B99-S-1105-03

Instrument: msv0.i

Sample Info: 20311062406W86-B99-S-1105-03

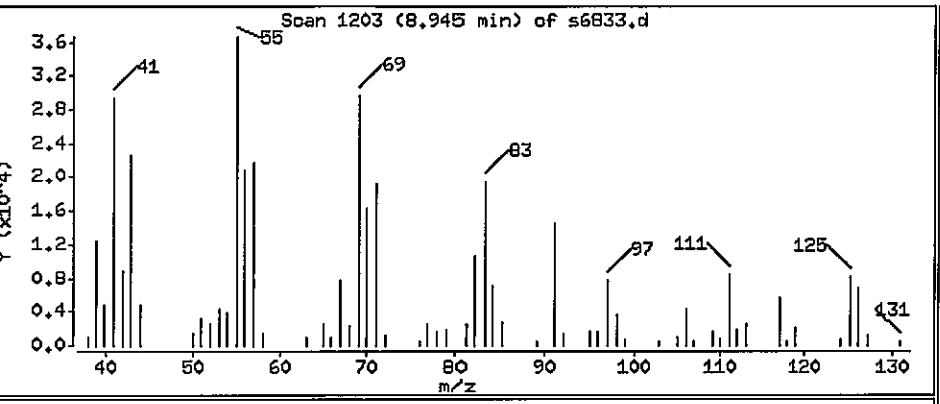
Operator: KRV

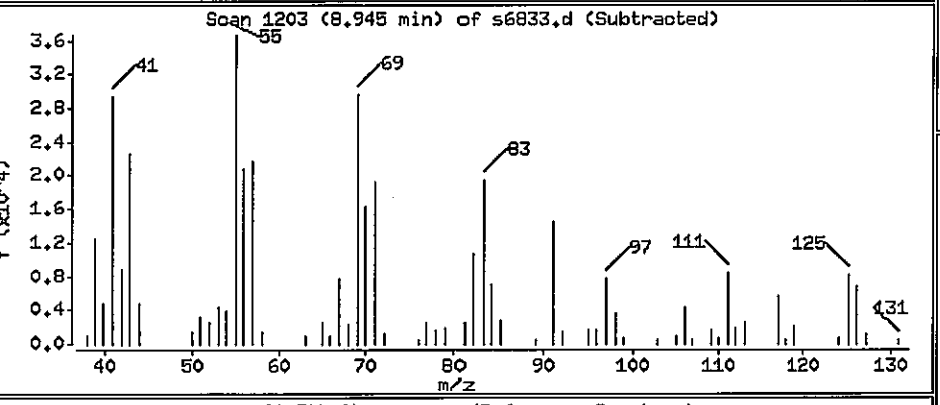
Column phase: DB-624-30M

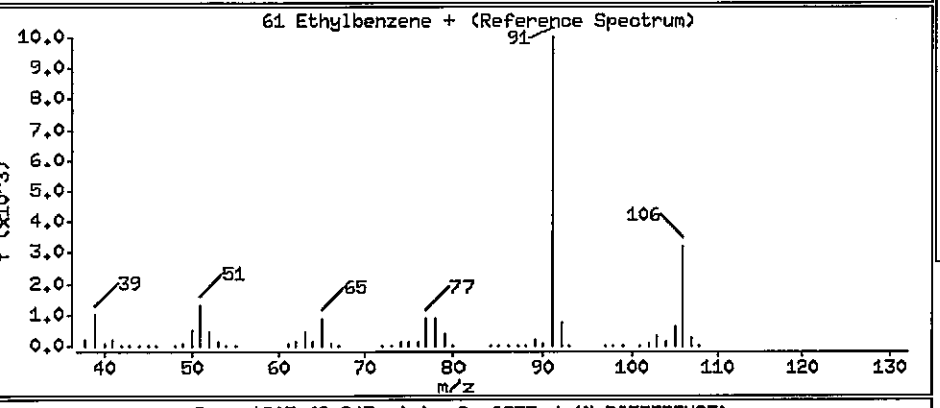
Column diameter: 0.53

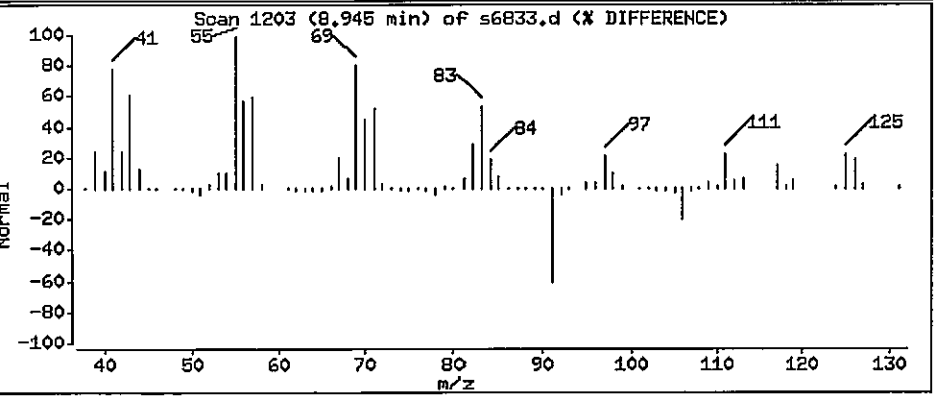
61 Ethylbenzene +

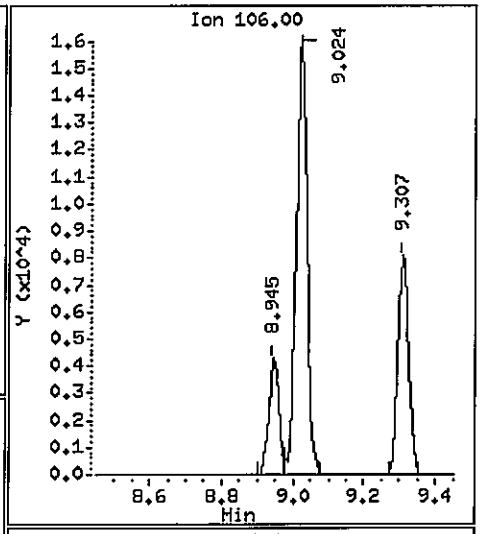
Concentration: 1.64 ug/Kg

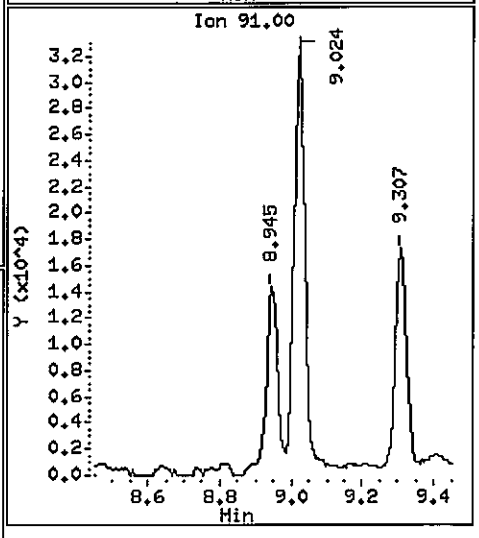












Data File: /var/chem/msv0.i/2031107p.s.b/s6833.d

Date : 07-NOV-2003 22:08

Client ID: 86-B99-S-1105-03

Instrument: msv0.i

Sample Info: 20311062406W86-B99-S-1105-03

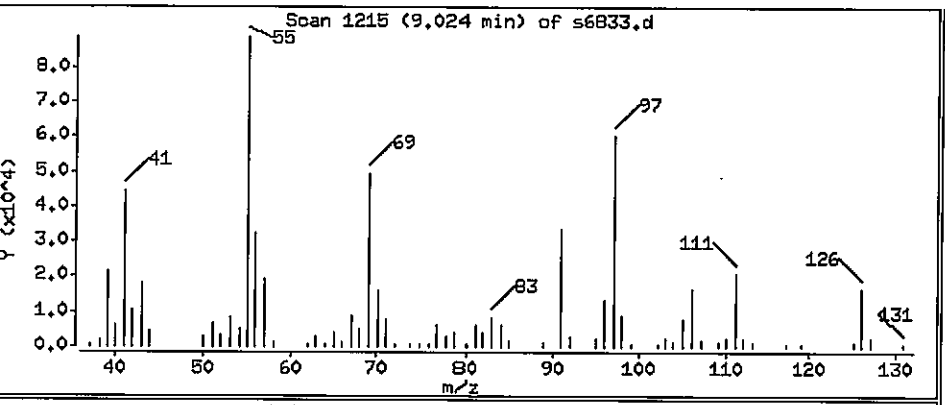
Operator: KRV

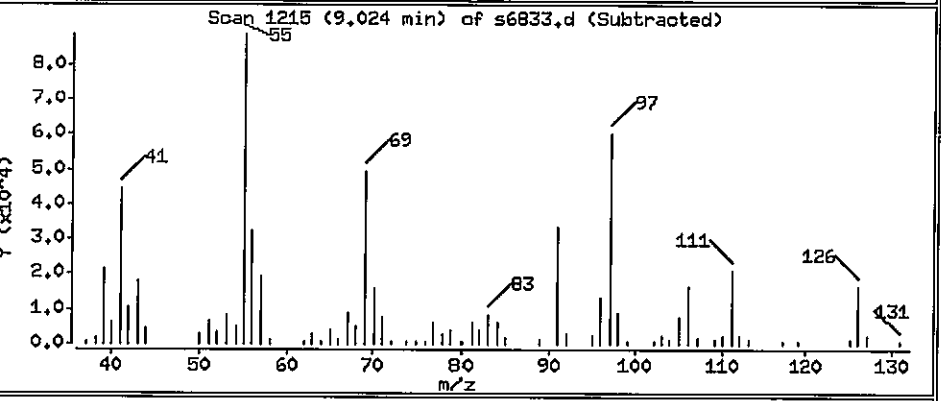
Column phase: DB-624-30M

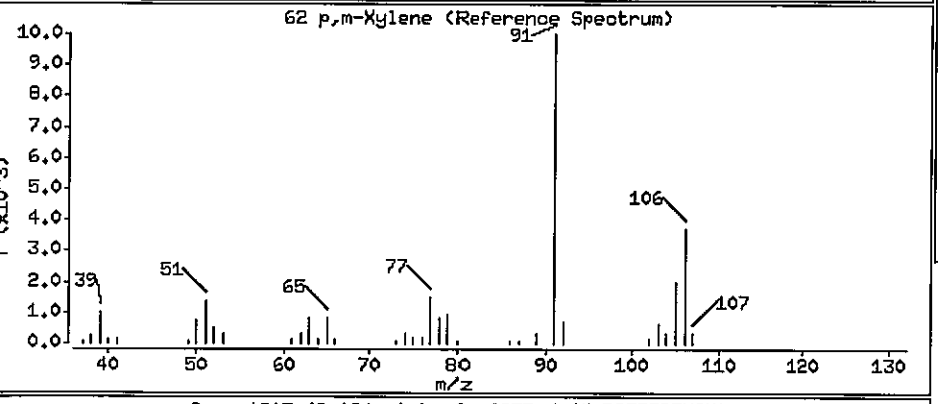
Column diameter: 0.53

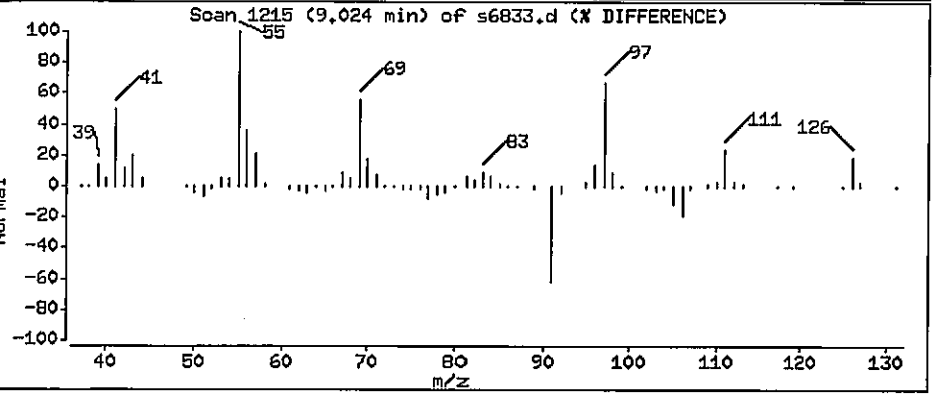
62 p,m-Xylene

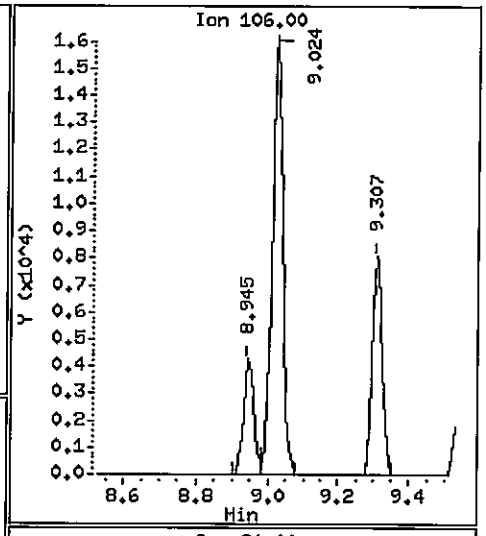
Concentration: 5.23 ug/Kg

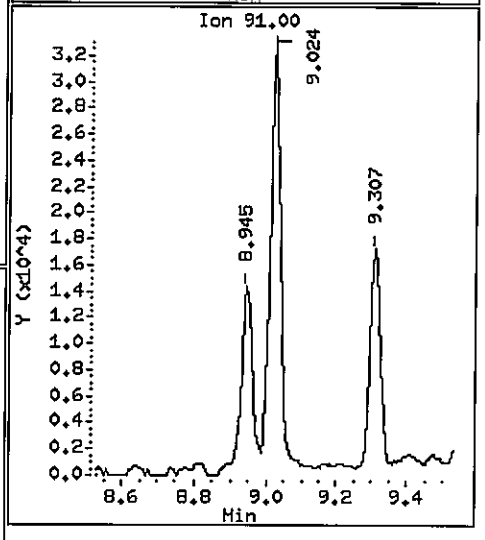












Data File: /var/chem/msv0.i/20311107p.s.b/s6833.d

Date : 07-NOV-2003 22:08

Client ID: 86-B99-S-1105-03

Instrument: msv0.i

Sample Info: 20311062406*86-B99-S-1105-03

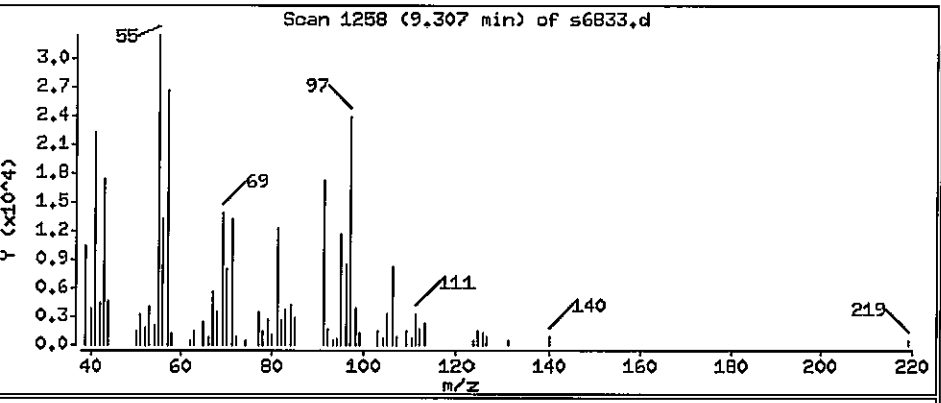
Operator: KRV

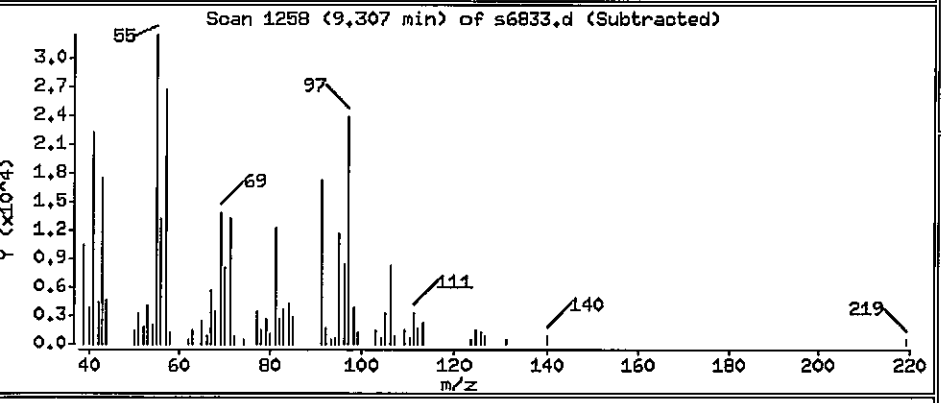
Column phase: DB-624-30M

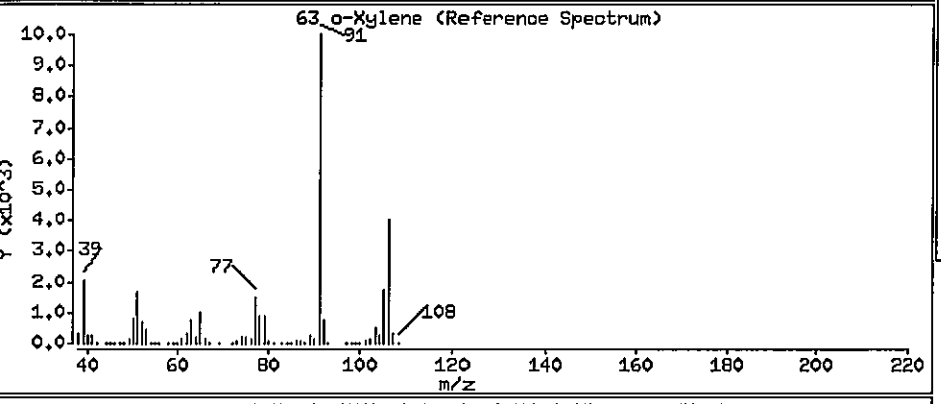
Column diameter: 0.53

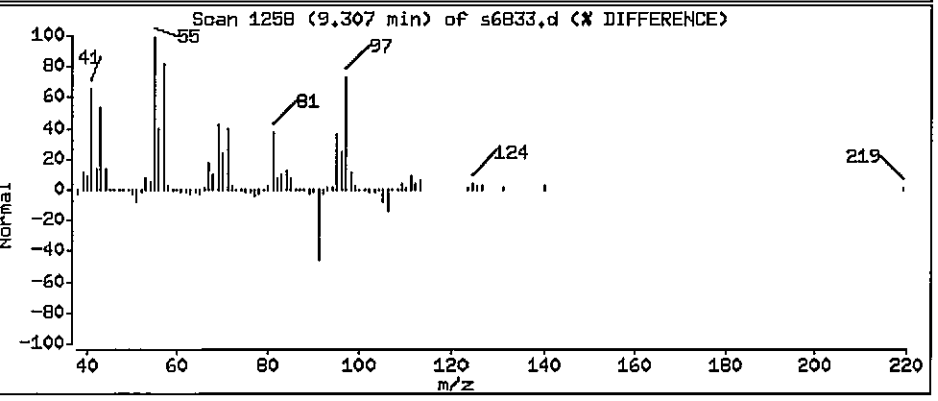
63 o-Xylene

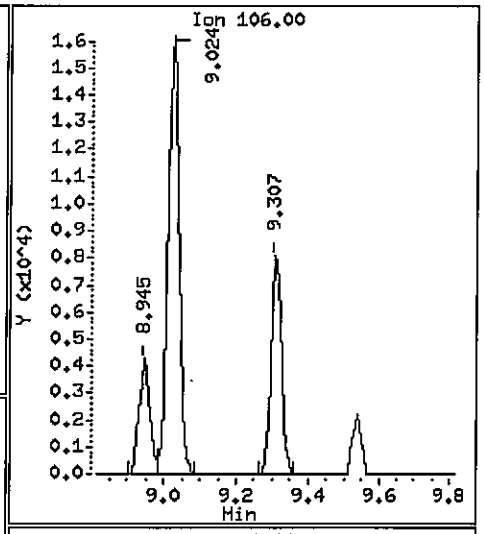
Concentration: 2.57 ug/Kg

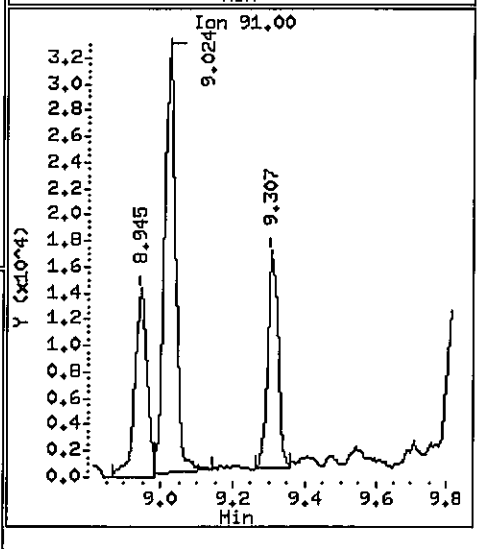












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6857.d
Lab Smp Id: 20311062407 Client Smp ID: 86-B101-S-1105-03
Inj Date : 08-NOV-2003 11:49
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062407*86-B101-S-1105-03
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 08-Nov-2003 09:02 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 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	5.23000	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
10 Acetone	43	4.091	4.090	(0.616)	25885	8.09841	7.74	5767
25 Dibromofluoromethane	111	6.118	6.118	(0.922)	155076	52.7136	50.4	3601
32 1,2-Dichloroethane-d4	67	6.414	6.414	(0.966)	81903	49.7422	47.6	9572
35 FLUOROBENZENE	96	6.638	6.638	(1.000)	571867	50.0000		9568
46 Toluene-d8	98	7.810	7.810	(0.879)	543399	51.6754	49.4	8704
58 Chlorobenzene-d5	82	8.890	8.889	(1.000)	243870	50.0000		8928
67 Bromofluorobenzene	174	9.699	9.693	(1.091)	142674	47.0514	45.0	8556
81 1,4-DICHLOROBENZENE-D4	152	10.470	10.463	(1.000)	160210	50.0000		9505

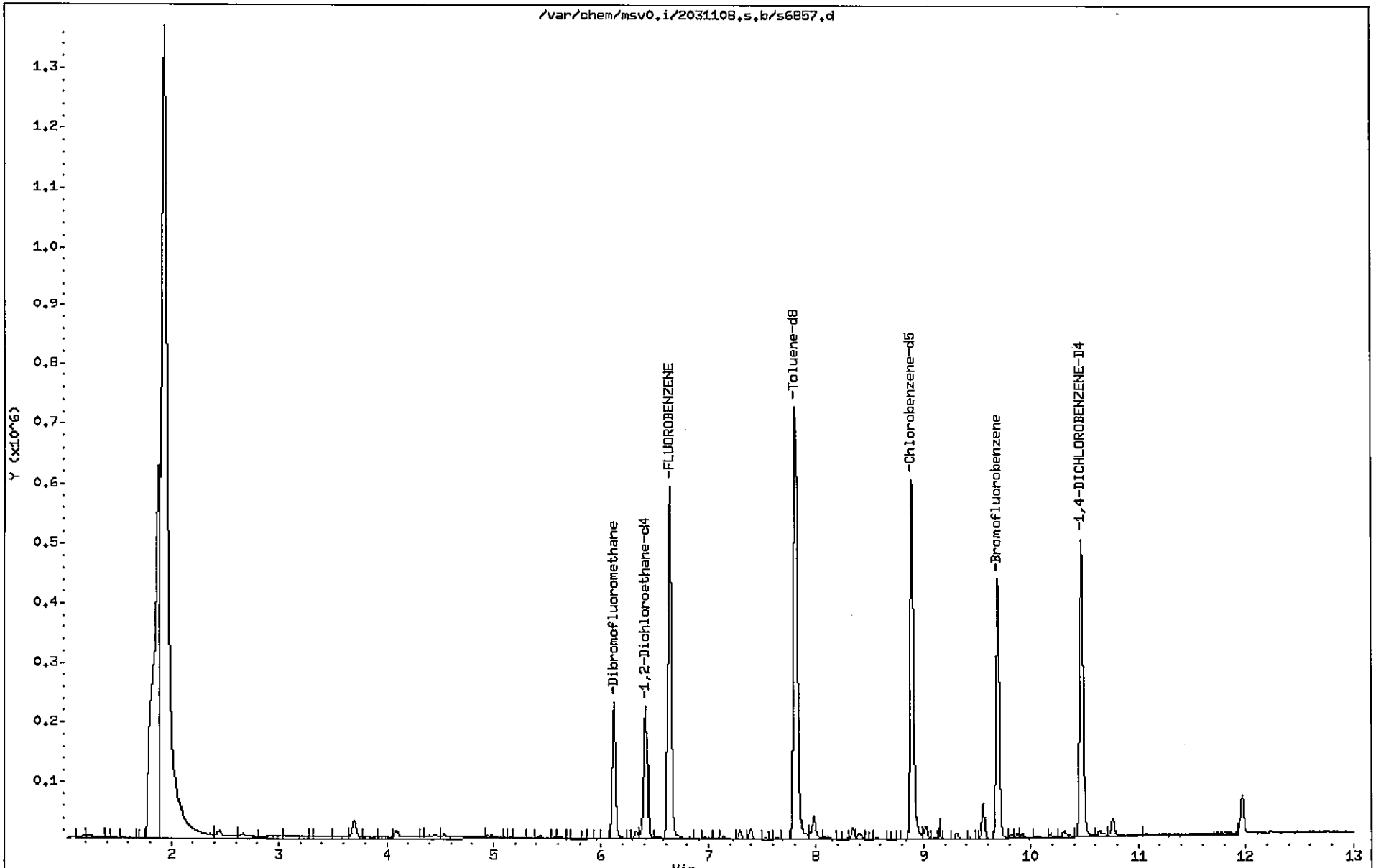
Data File: /var/chem/msv0.i/2031108.s.b/s6857.d
Date : 08-NOV-2003 11:49
Client ID: B6-B101-S-1105-03
Sample Info: 20311062407MB6-B101-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000113



Data File: /var/chem/msv0.i/2031108.s.b/s6857.d

Date : 08-NOV-2003 11:49

Client ID: 86-B101-S-1105-03

Instrument: msv0.i

Sample Info: 20311062407*86-B101-S-1105-03

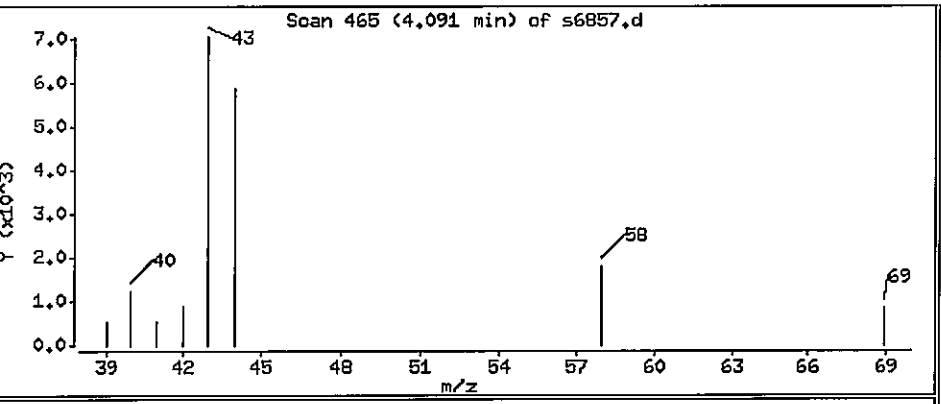
Operator: KRV

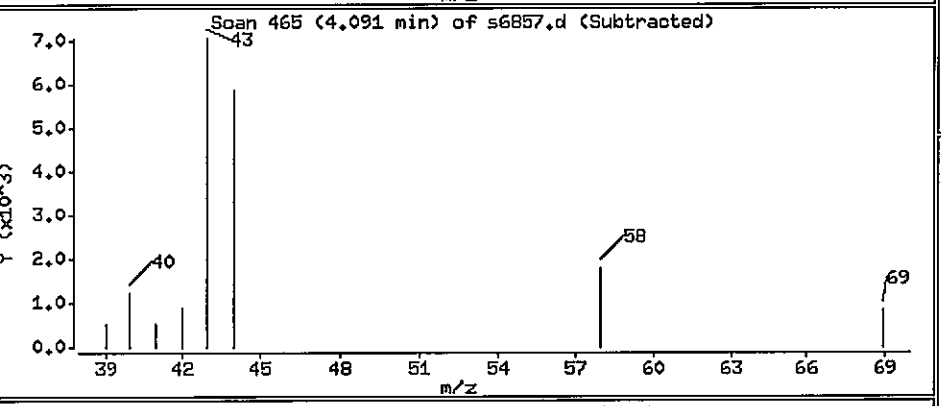
Column phase: DB-624-30M

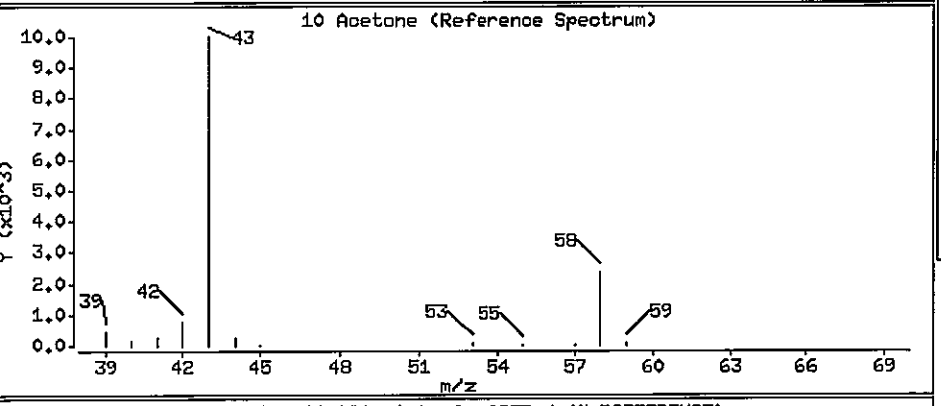
Column diameter: 0.53

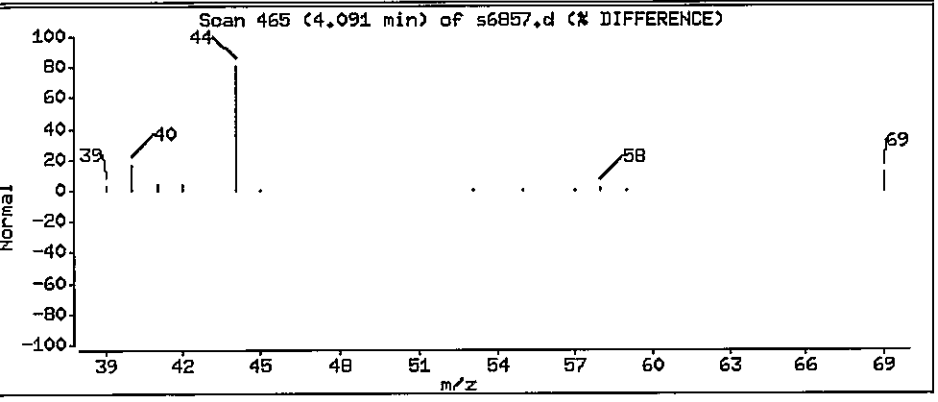
10 Acetone

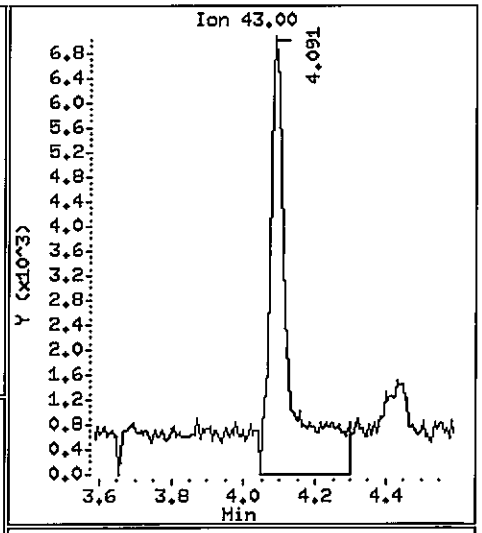
Concentration: 7.74 ug/Kg

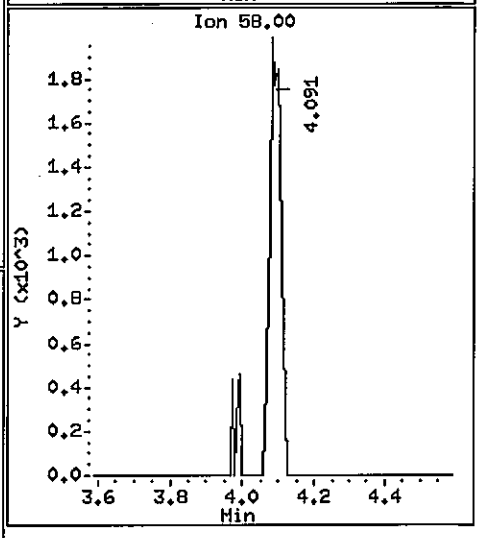












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6835.d
Lab Smp Id: 20311062408 Client Smp ID: 86-B104-S-1105-03
Inj Date : 07-NOV-2003 22:52
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062408*86-B104-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.16000	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	6.116	6.124	(0.921)	91373	46.3895	45.0	3213
32 1,2-Dichloroethane-d4	67	6.419	6.426	(0.966)	45889	41.6253	40.3	9547
35 FLUOROBENZENE	96	6.643	6.644	(1.000)	382888	50.0000		9636
46 Toluene-d8	98	7.815	7.822	(0.879)	360276	55.0516	53.3	8544
58 CHLOROBENZENE-d5	82	8.894	8.902	(1.000)	151771	50.0000		8663
67 Bromofluorobenzene	174	9.698	9.705	(1.090)	90148	47.7698	46.3	8704
81 1,4-DICHLOROBENZENE-D4	152	10.468	10.482	(1.000)	103942	50.0000		9589
62 p,m-Xylene	106	9.026	9.033	(1.015)	5490	1.50403	1.46	8967
84 TOTAL XYLENE	106				5490	1.50403	1.46	0

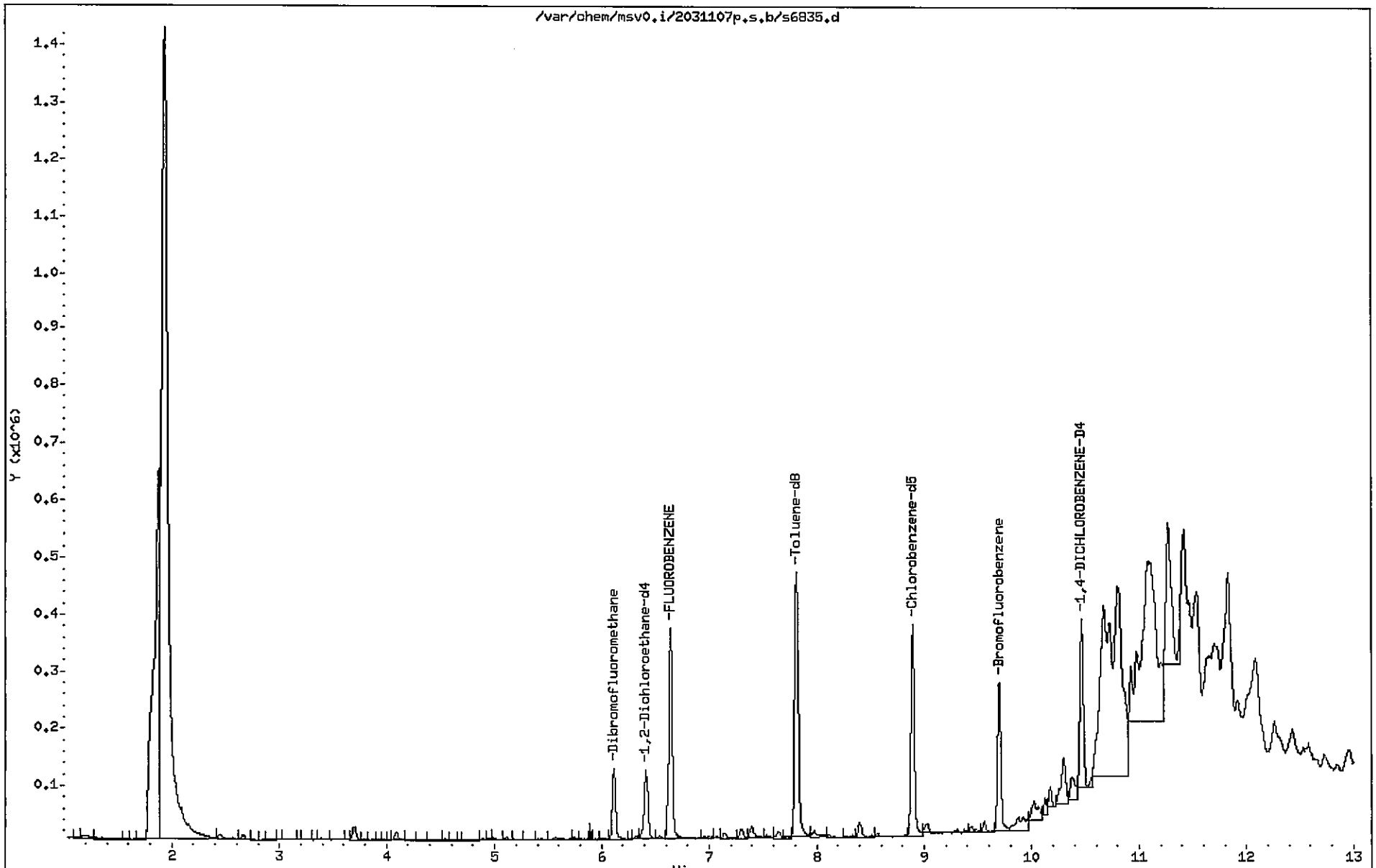
Data File: /var/chem/msv0.i/2031107p.s.b/s6835.d
Date : 07-NOV-2003 22:52
Client ID: 86-B104-S-1105-03
Sample Info: 2031106240BW86-B104-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000116



Data File: /var/chem/msv0.i/2031107p.s.b/s6835.d

Date : 07-NOV-2003 22:52

Client ID: 86-B104-S-1105-03

Instrument: msv0.i

Sample Info: 20311062408M86-B104-S-1105-03

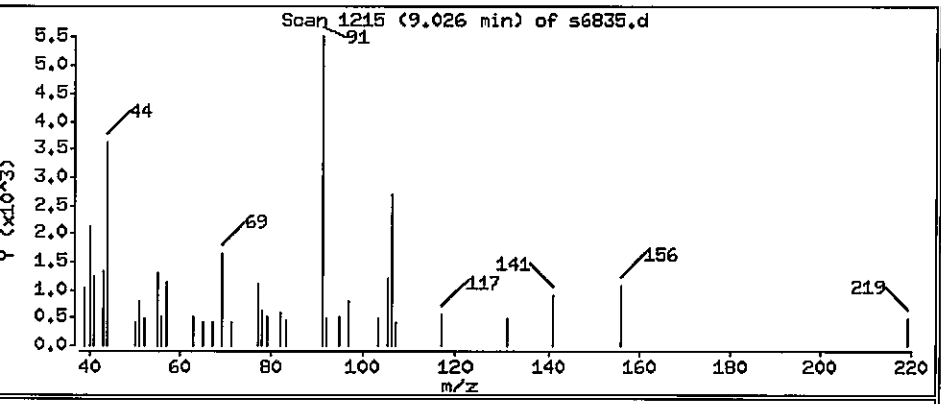
Operator: KRV

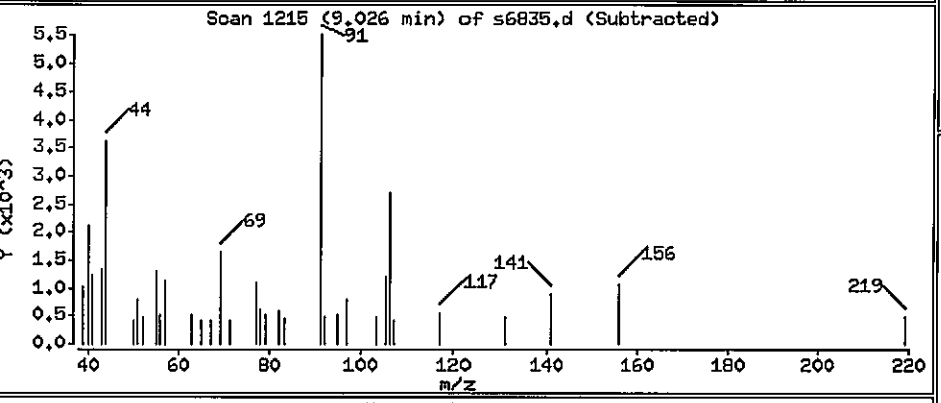
Column phase: DB-624-30M

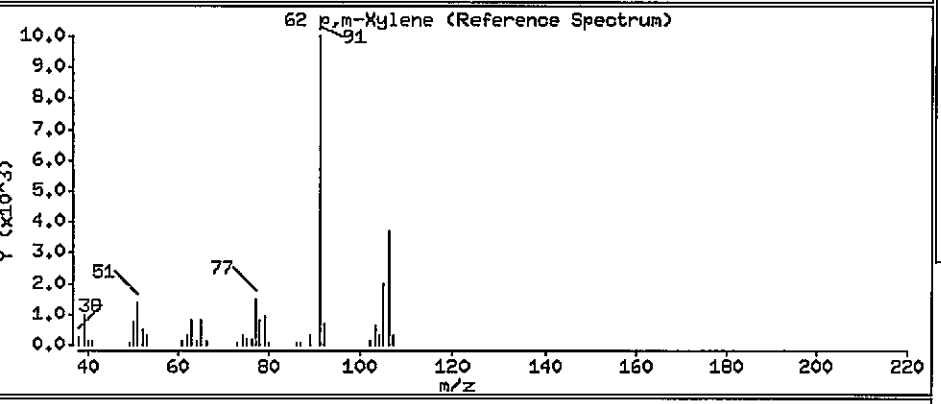
Column diameter: 0.53

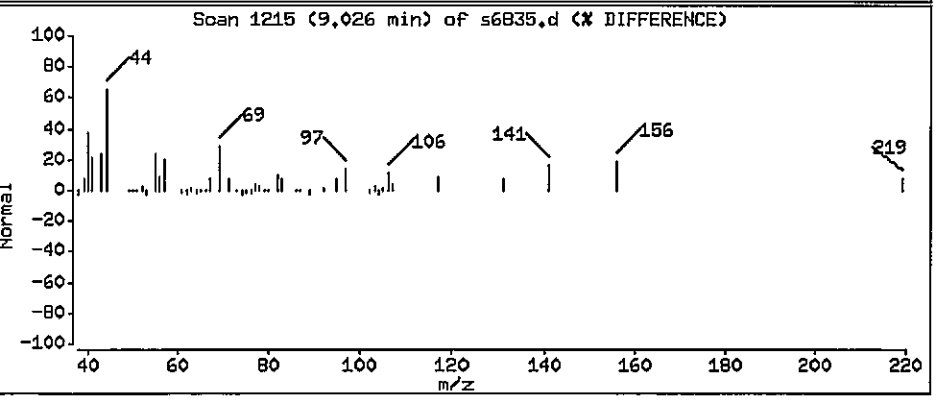
62 p,m-Xylene

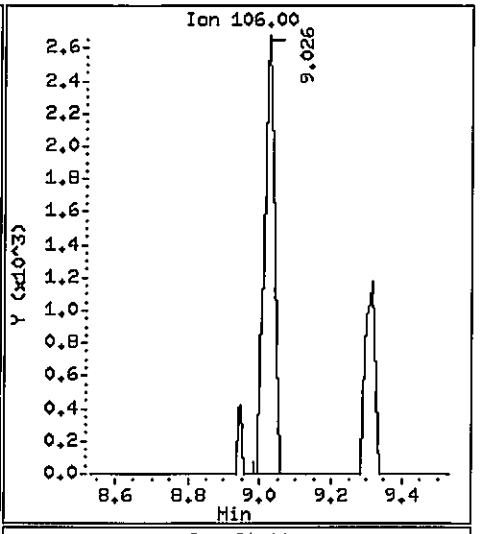
Concentration: 1.46 ug/Kg

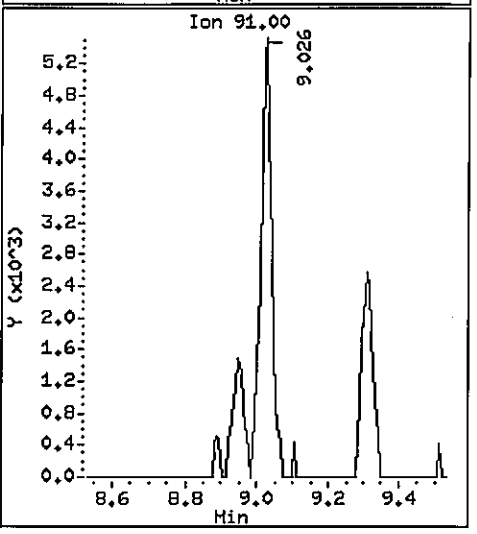












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6836.d
Lab Smp Id: 20311062409 Client Smp ID: 86-B106-S-1105-03
Inj Date : 07-NOV-2003 23:14
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062409*86-B106-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.29000	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	6.118	6.124	(0.922)	129553	51.6411	48.8	4825
32 1,2-Dichloroethane-d4	67	6.420	6.426	(0.967)	68019	48.4424	45.8	9498
35 FLUOROBENZENE	96	6.638	6.644	(1.000)	487669	50.0000		9620
46 Toluene-d8	98	7.816	7.822	(0.879)	409676	57.7253	54.6	8504
47 Toluene +	91	7.862	7.868	(0.884)	31158	3.34698	3.16	8713
58 CHLOROBENZENE-d5	82	8.896	8.902	(1.000)	164588	50.0000		8718
67 Bromofluorobenzene	174	9.692	9.705	(1.090)	82382	40.2550	38.0	8436
81 1,4-DICHLOROBENZENE-D4	152	10.462	10.482	(1.000)	70155	50.0000		9263
62 p,m-Xylene	106	9.021	9.033	(1.014)	5737	1.44930	1.37	8350
84 TOTAL XYLENE	106				5737	1.44930	1.37	0

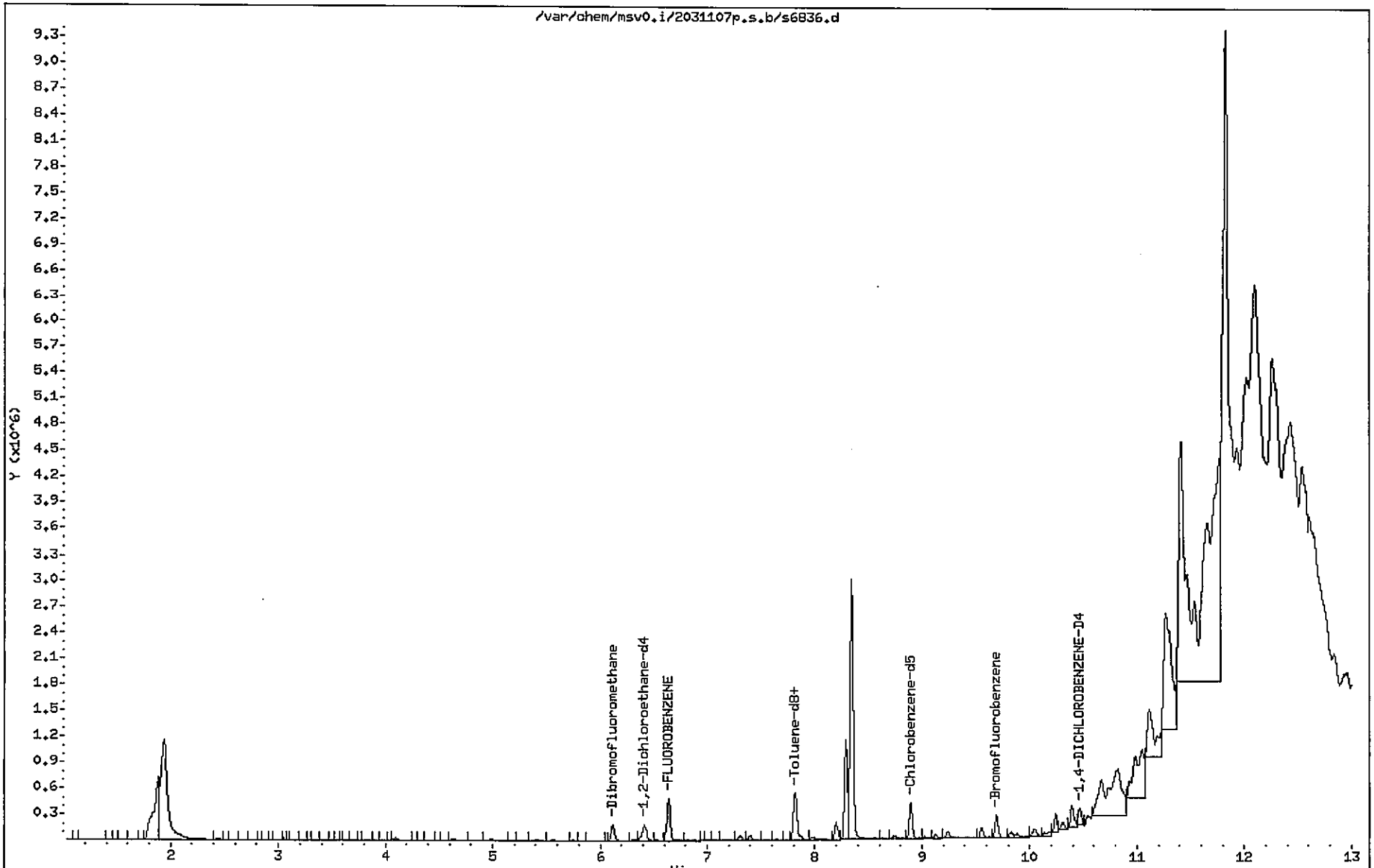
Data File: /var/chem/msv0.i/2031107p.s.b/s6836.d
Date : 07-NOV-2003 23:14
Client ID: 86-B106-S-1105-03
Sample Info: 20311062409M86-B106-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000119



Data File: /var/chem/msv0.i/20311107p.s.b/s6836.d

Date : 07-NOV-2003 23:14

Client ID: 86-B106-S-1105-03

Instrument: msv0.i

Sample Info: 20311062409M86-B106-S-1105-03

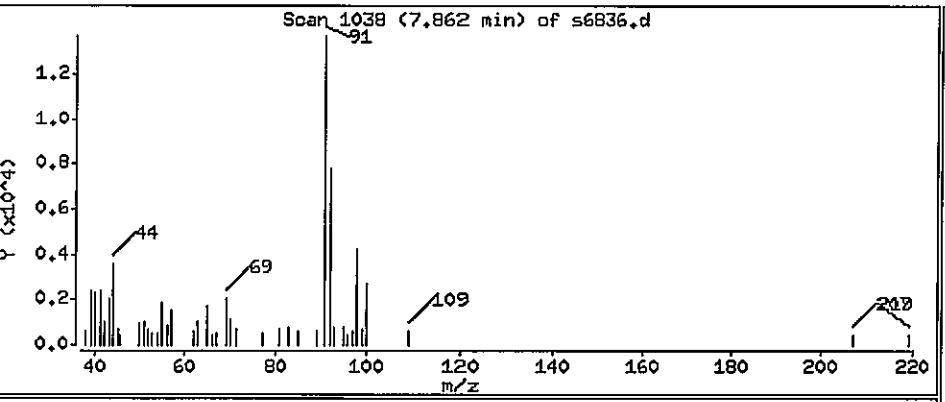
Operator: KRV

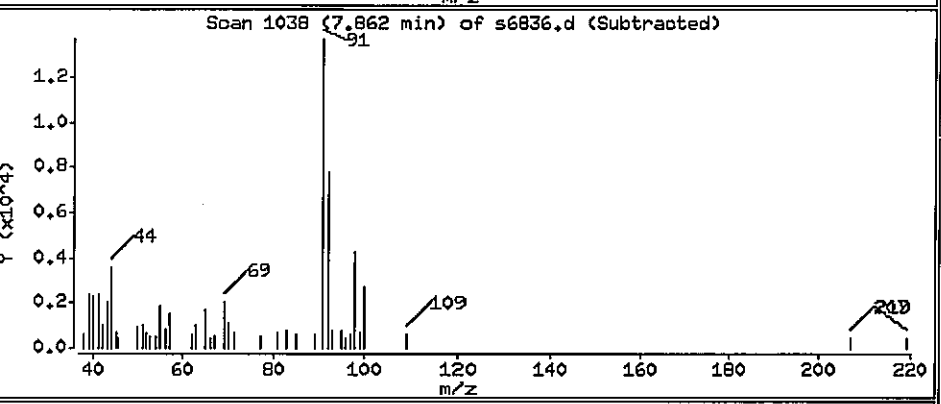
Column phase: DB-624-30M

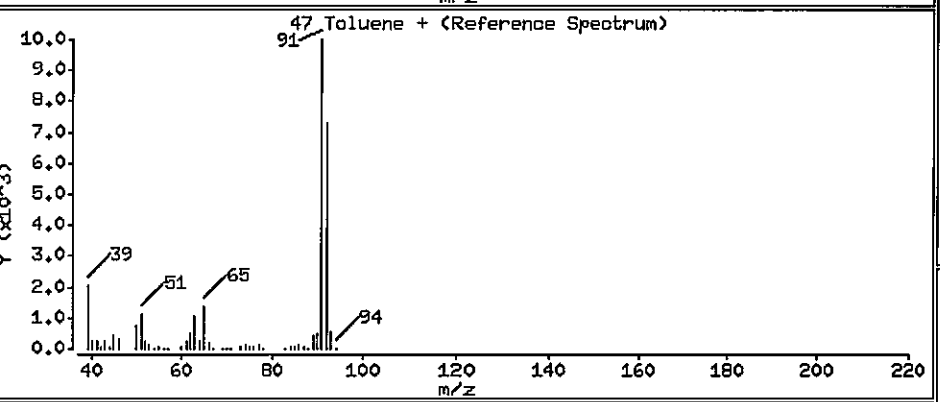
Column diameter: 0.53

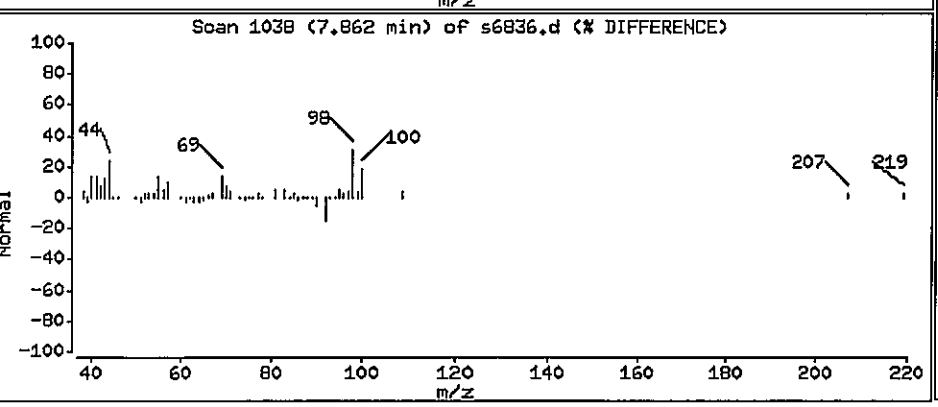
47 Toluene +

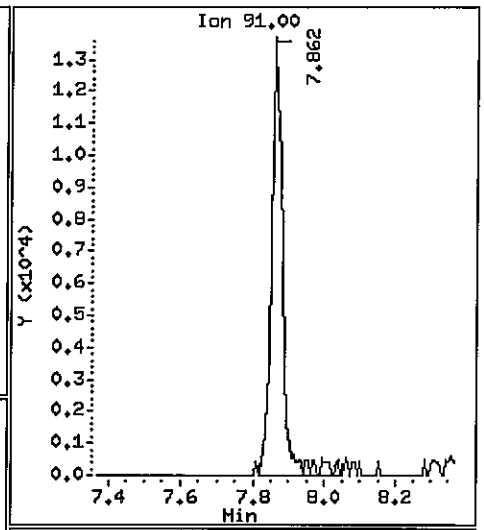
Concentration: 3.16 ug/Kg

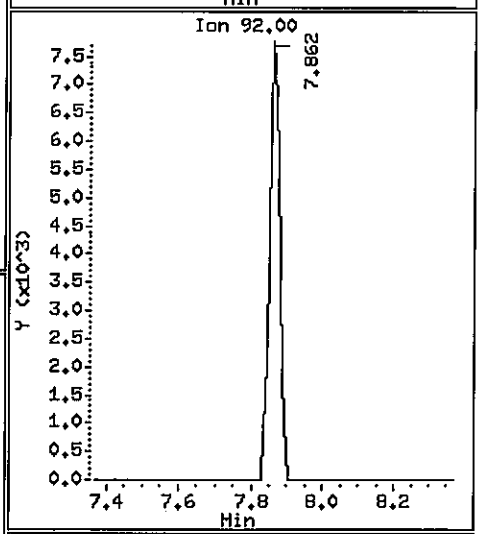


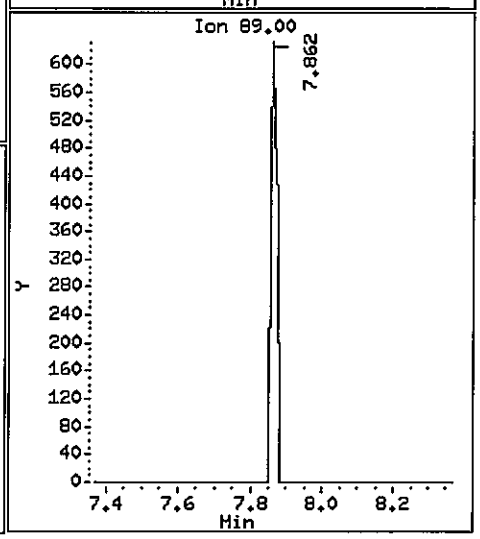












Data File: /var/chem/msv0.i/2031107p.s.b/s6836.d

Date : 07-NOV-2003 23:14

Client ID: 86-B106-S-1105-03

Instrument: msv0.i

Sample Info: 20311062409M86-B106-S-1105-03

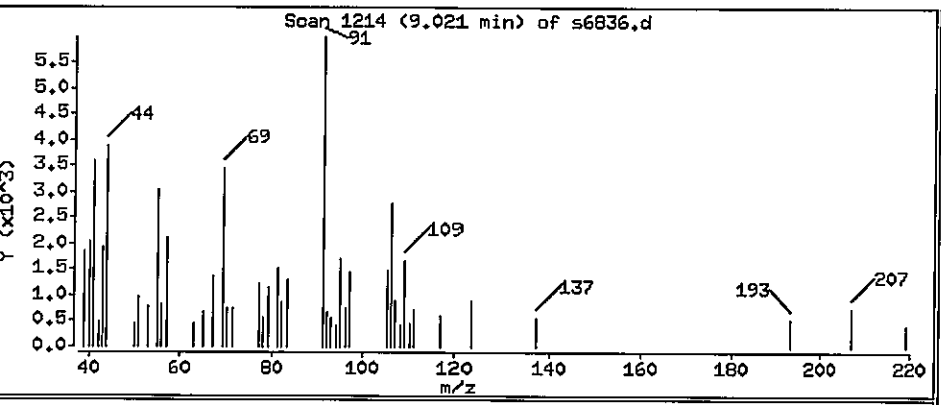
Operator: KRV

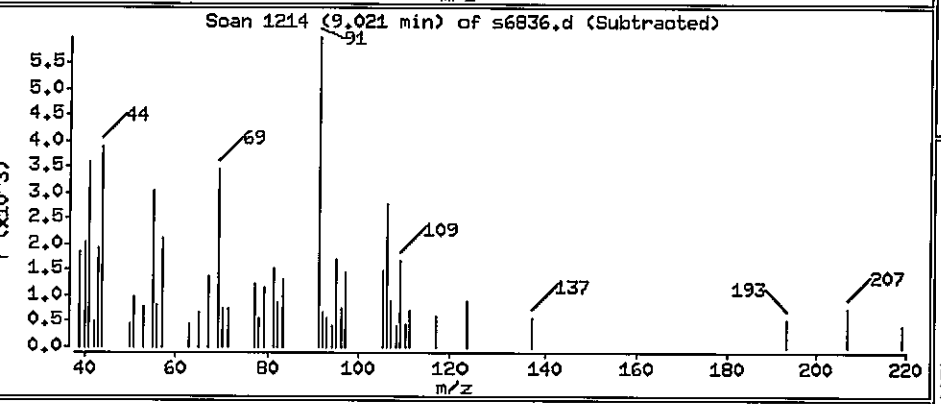
Column phase: DB-624-30M

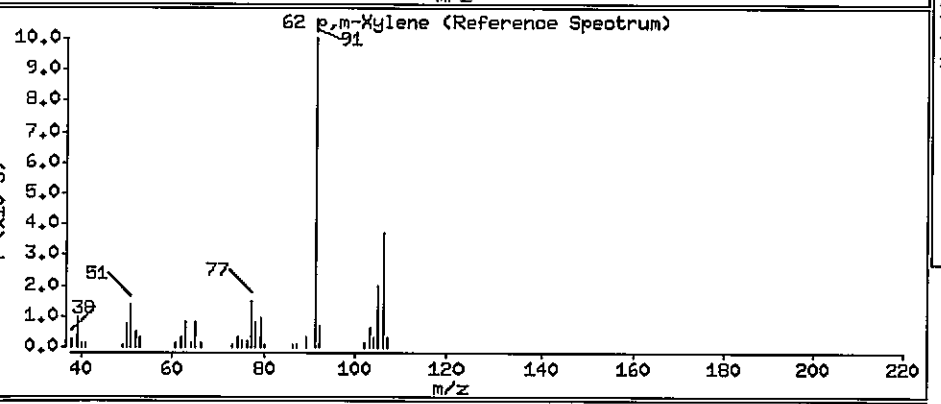
Column diameter: 0.53

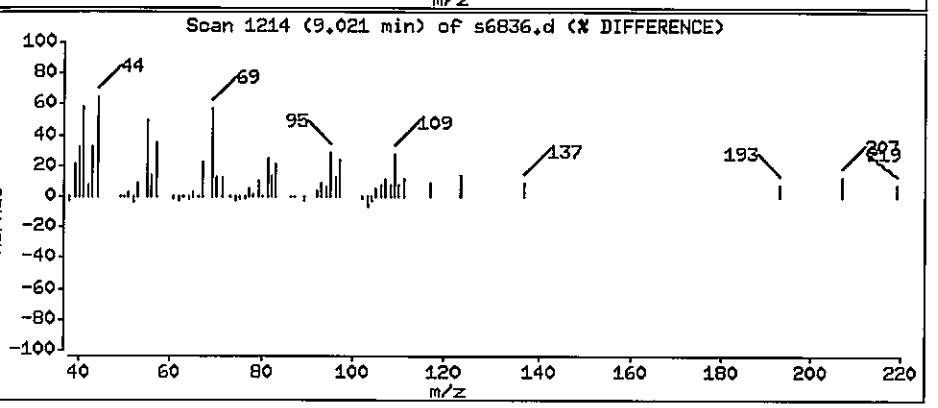
62 p,m-Xylene

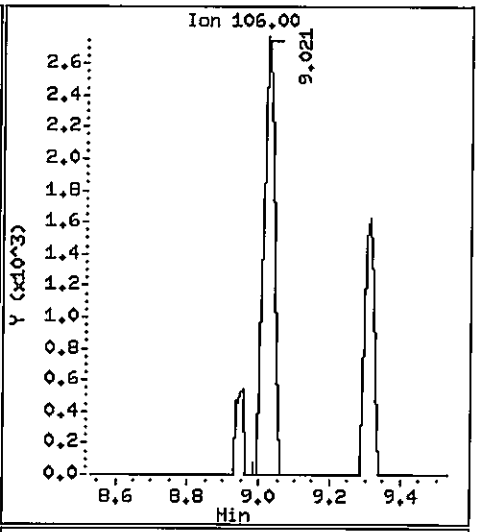
Concentration: 1.37 ug/Kg

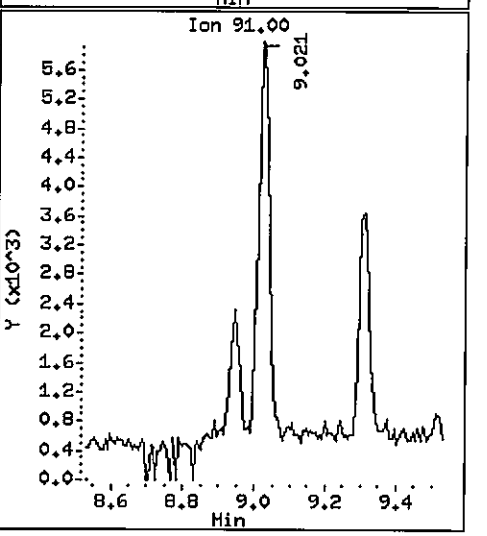












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6837.d
Lab Smp Id: 20311062410 Client Smp ID: 86-B110-S-1105-03
Inj Date : 07-NOV-2003 23:36
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062410*86-B110-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.11000	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	6.114	6.124	(0.922)	148715	52.4930	51.4	3371
32 1,2-Dichloroethane-d4	67	6.417	6.426	(0.967)	76761	48.4099	47.4	9451
35 FLUOROBENZENE	96	6.635	6.644	(1.000)	550715	50.0000		9639
46 Toluene-d8	98	7.813	7.822	(0.879)	561664	50.4423	49.4	8426
58 CHLOROBENZENE-d5	82	8.893	8.902	(1.000)	258229	50.0000		8558
67 Bromofluorobenzene	174	9.696	9.705	(1.090)	171860	53.5249	52.4	8783
81 1,4-DICHLOROBENZENE-D4	152	10.466	10.482	(1.000)	203844	50.0000		9690

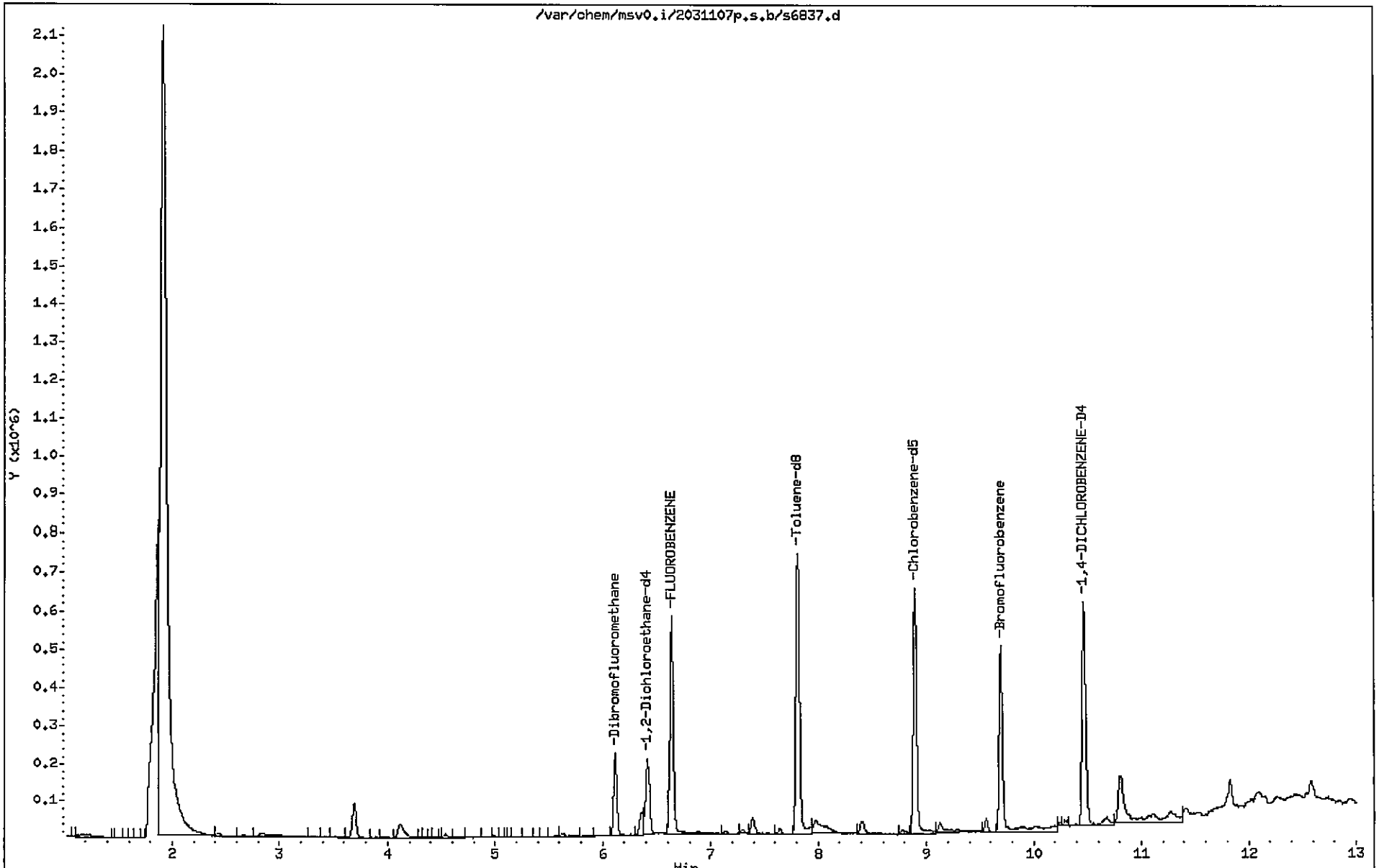
Data File: /var/chem/msv0.i/2031107p.s.b/s6837.d
Date : 07-NOV-2003 23:36
Client ID: 86-B110-S-1105-03
Sample Info: 20311062410M86-B110-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000123



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6838.d
Lab Smp Id: 20311062411 Client Smp ID: 86-B137-S-1105-03
Inj Date : 07-NOV-2003 23:58
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062411*86-B137-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.18000	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	6.121	6.124	(0.922)	137298	51.3467	49.6	3579
32 1,2-Dichloroethane-d4	67	6.417	6.426	(0.966)	71702	47.9101	46.2	9524
33 Benzene	78	6.411	6.420	(0.965)	12829	1.12437	1.09	3495
35 FLUOROBENZENE	96	6.641	6.644	(1.000)	519786	50.0000		9630
46 Toluene-d8	98	7.813	7.822	(0.879)	484769	57.2843	55.3	8546
47 Toluene +	91	7.866	7.868	(0.885)	23578	2.12406	2.05	8894
58 CHLOROBENZENE-d5	82	8.893	8.902	(1.000)	196256	50.0000		8726
67 Bromofluorobenzene	174	9.696	9.705	(1.090)	107687	44.1292	42.6	8645
81 1,4-DICHLOROBENZENE-D4	152	10.466	10.482	(1.000)	106846	50.0000		9619
62 p,m-Xylene	106	9.024	9.033	(1.015)	8286	1.75548	1.69	9019(H)
63 o-Xylene	106	9.314	9.316	(1.047)	6306	1.40291	1.35	
84 TOTAL XYLENE	106				14592	3.15838	3.05	0

QC Flag Legend

H - Operator selected an alternate compound hit.

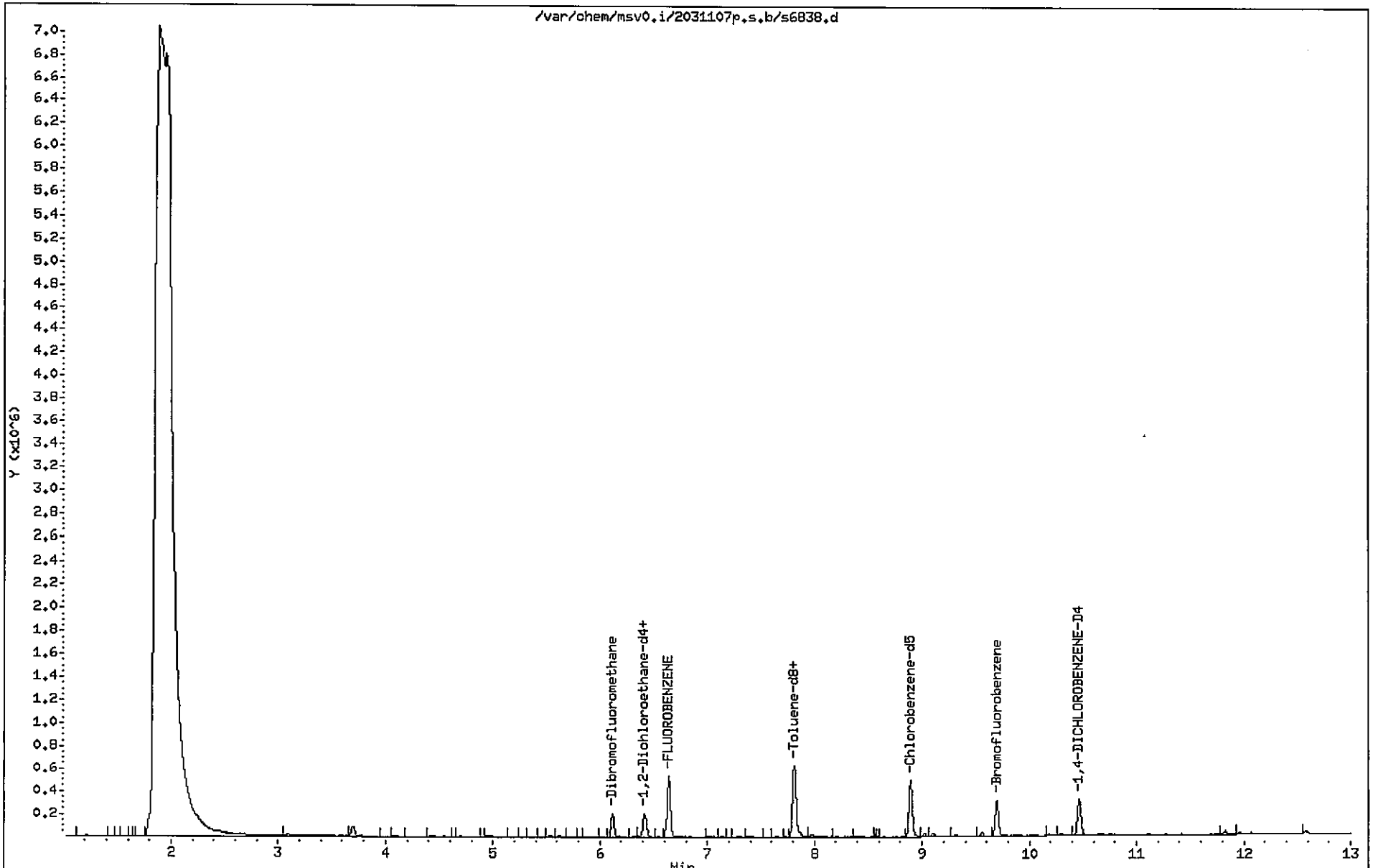
Data File: /var/chem/msv0.i/2031107p.s.b/s6838.d
Date : 07-NOV-2003 23:58
Client ID: 86-B137-S-1105-03
Sample Info: 20311062411M86-B137-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000126



Data File: /var/chem/msv0.i/2031107p.s.b/s6838.d

Date : 07-NOV-2003 23:58

Client ID: B6-B137-S-1105-03

Instrument: msv0.i

Sample Info: 20311062411M86-B137-S-1105-03

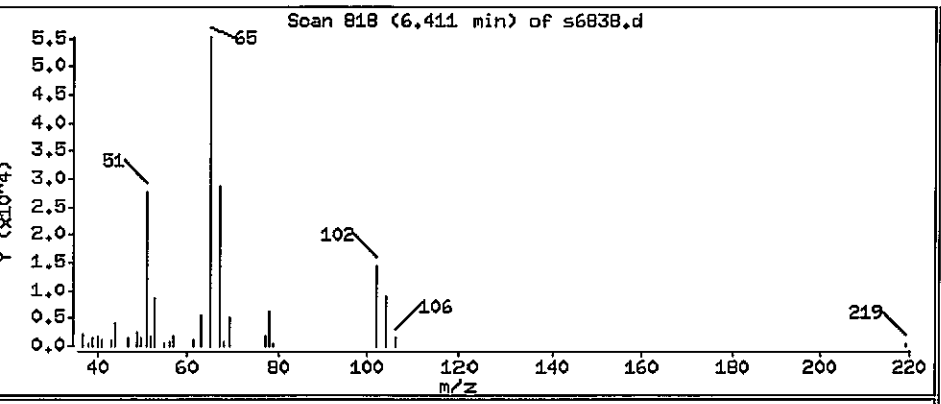
Operator: KRV

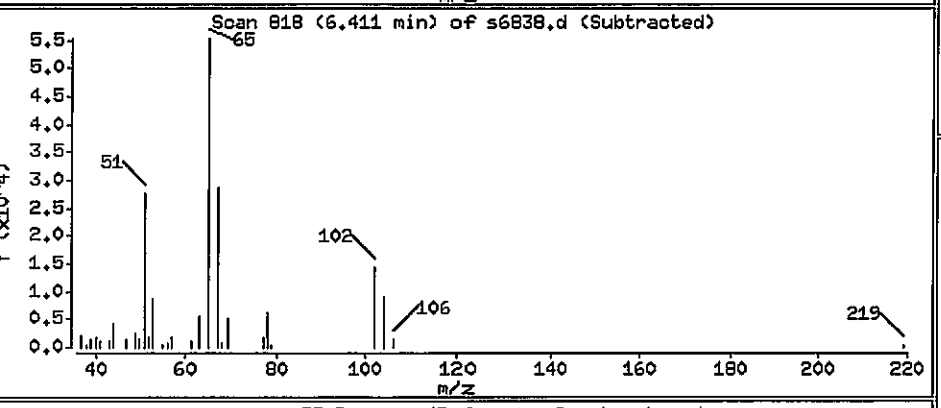
Column phase: DB-624-30M

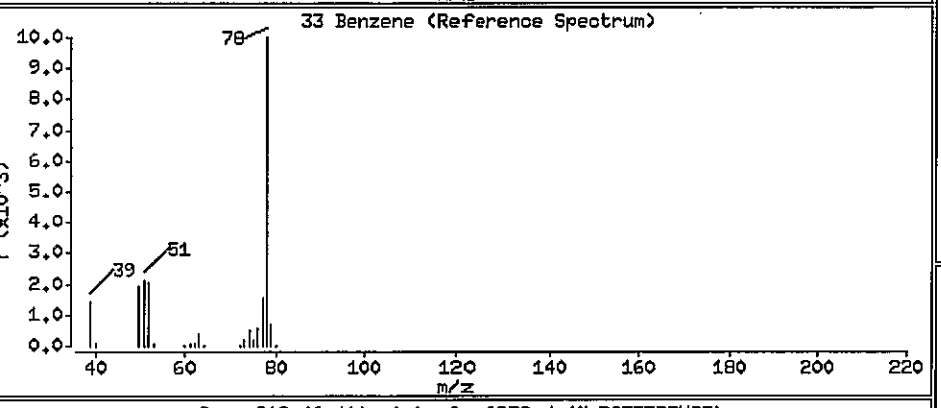
Column diameter: 0.53

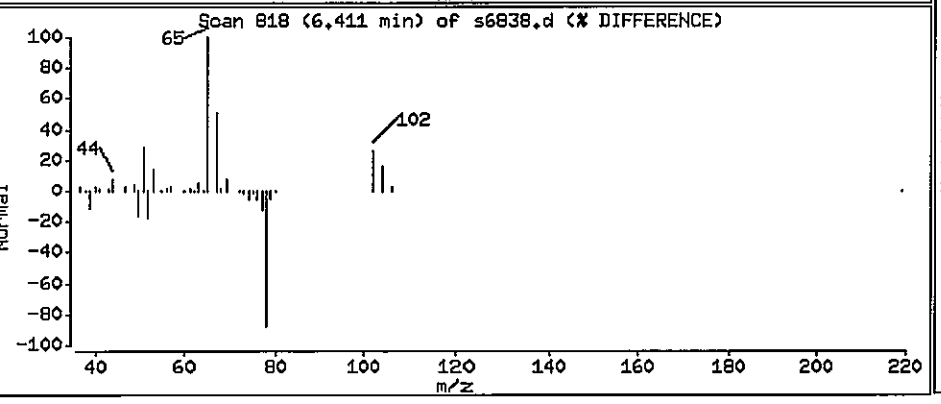
33 Benzene

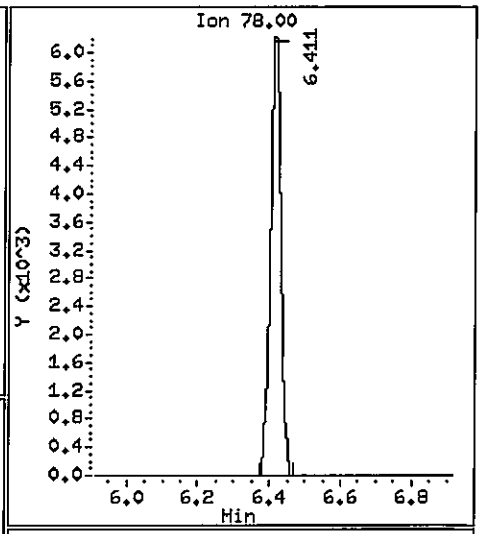
Concentration: 1.09 ug/Kg

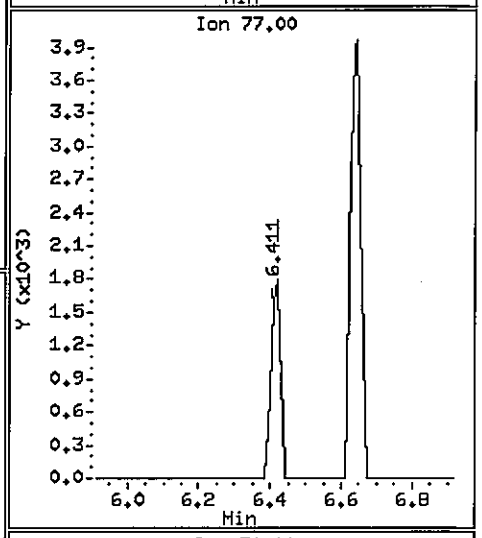


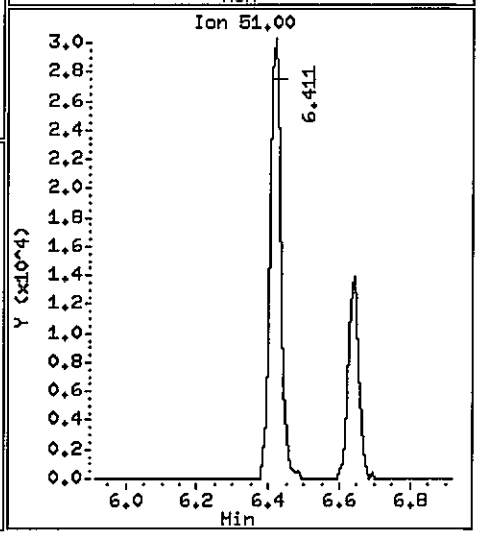












Data File: /var/chem/msv0.i/2031107p.s.b/s6838.d

Date : 07-NOV-2003 23:58

Client ID: 86-B137-S-1105-03

Instrument: msv0.i

Sample Info: 20311062411M86-B137-S-1105-03

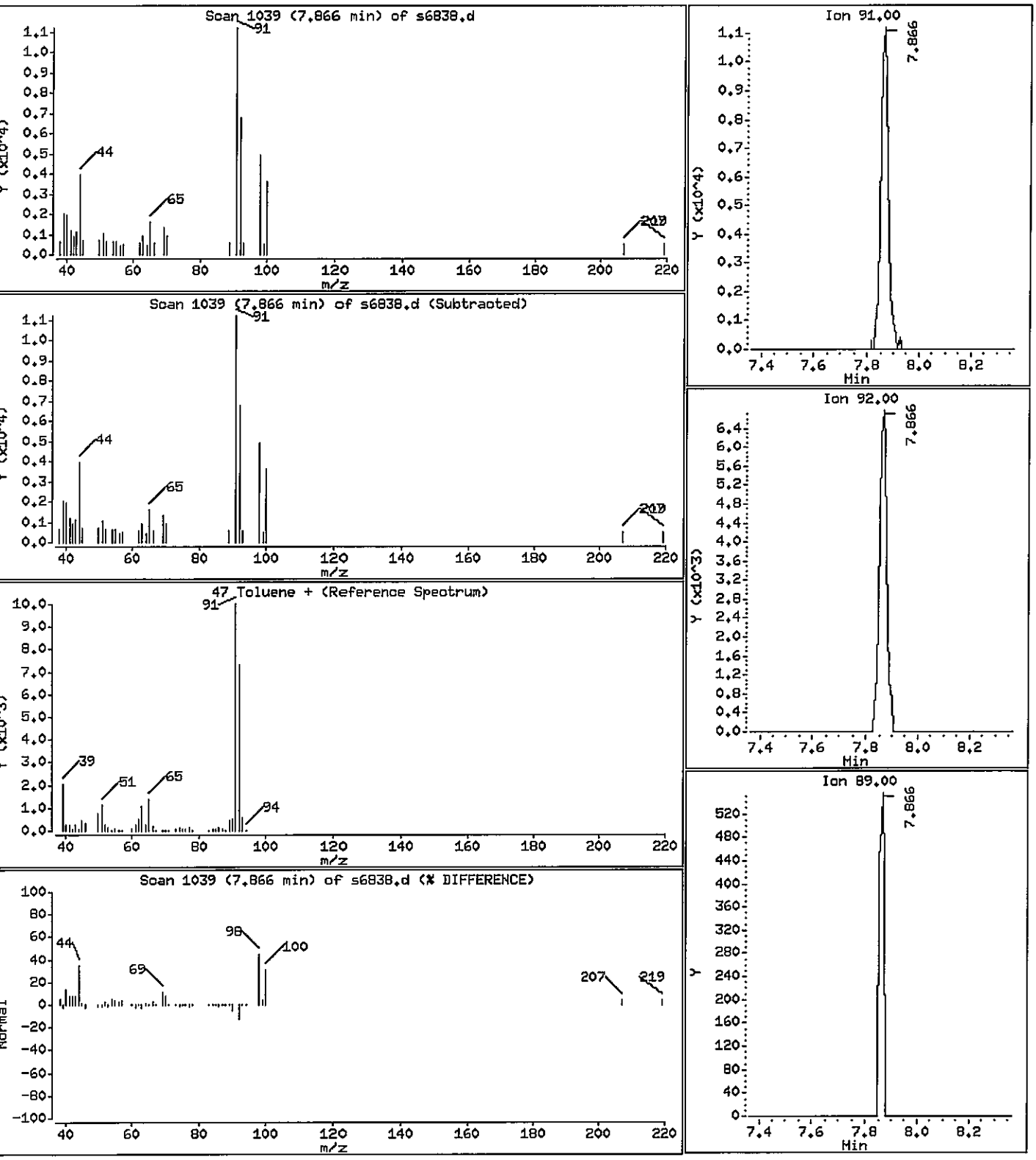
Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53

47 Toluene +

Concentration: 2.05 ug/Kg



Data File: /var/chem/msv0.i/2031107p.s.b/s6838.d

Date : 07-NOV-2003 23:58

Client ID: 86-B137-S-1105-03

Instrument: msv0.i

Sample Info: 20311062411*86-B137-S-1105-03

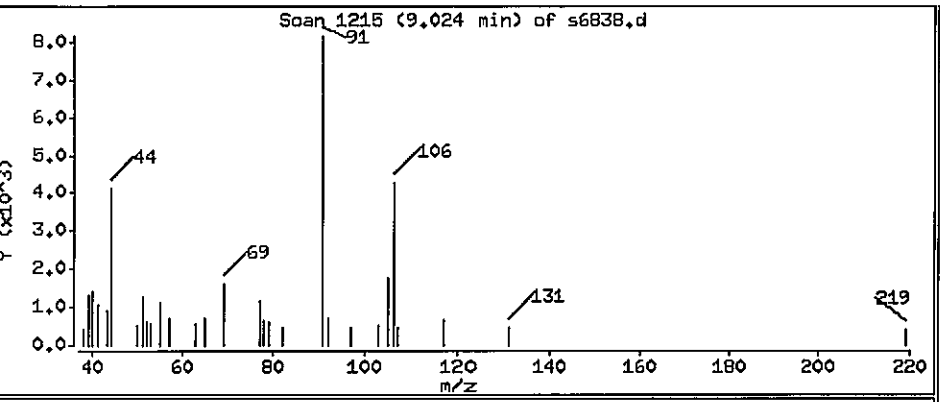
Operator: KRV

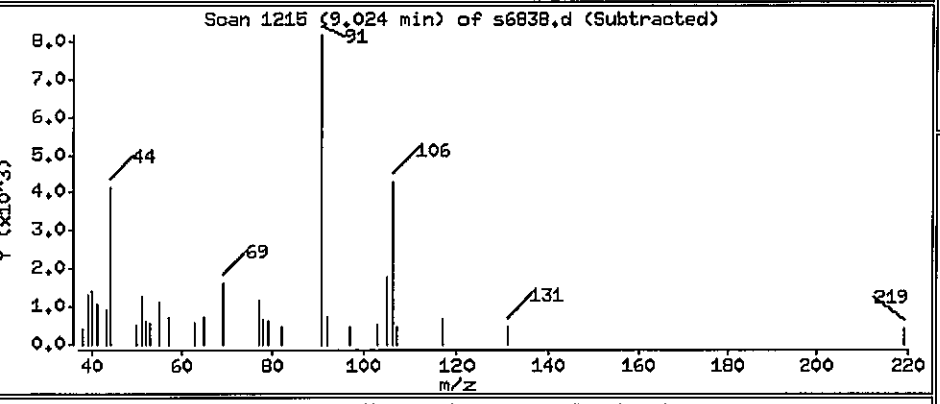
Column phase: DB-624-30M

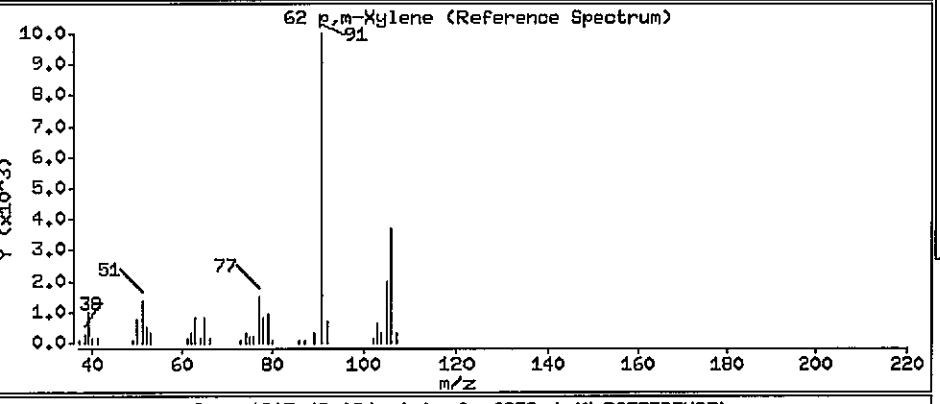
Column diameter: 0.53

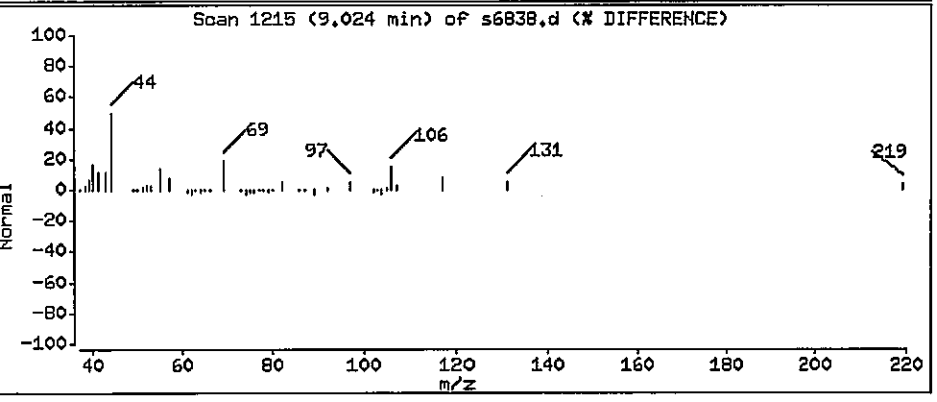
62 p,m-Xylene

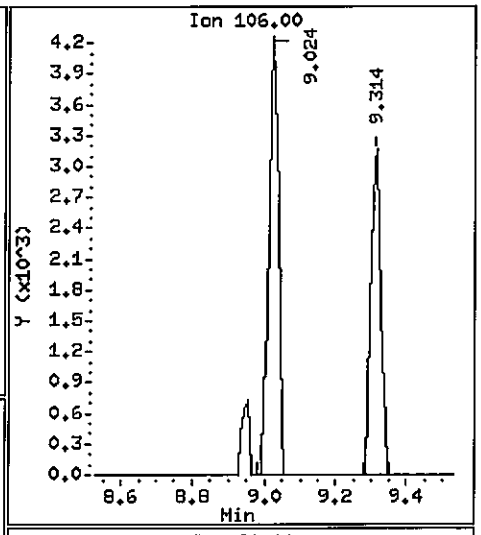
Concentration: 1.69 ug/Kg

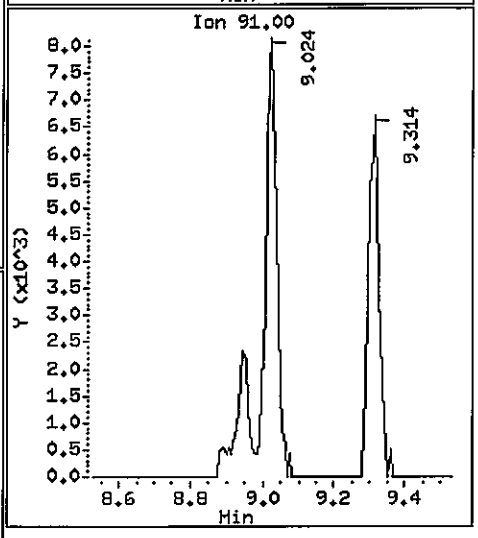












Data File: /var/chem/msv0.i/2031107p.s.b/s6838.d

Date : 07-NOV-2003 23:58

Client ID: 86-B137-S-1105-03

Instrument: msv0.i

Sample Info: 20311062411*86-B137-S-1105-03

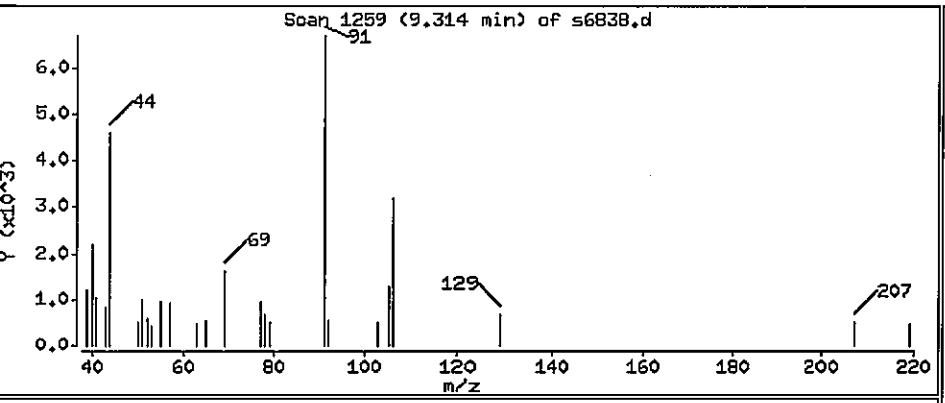
Operator: KRV

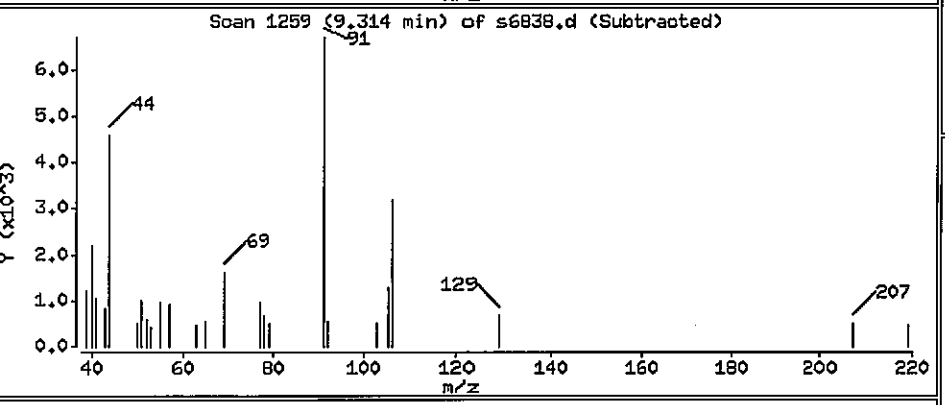
Column phase: DB-624-30M

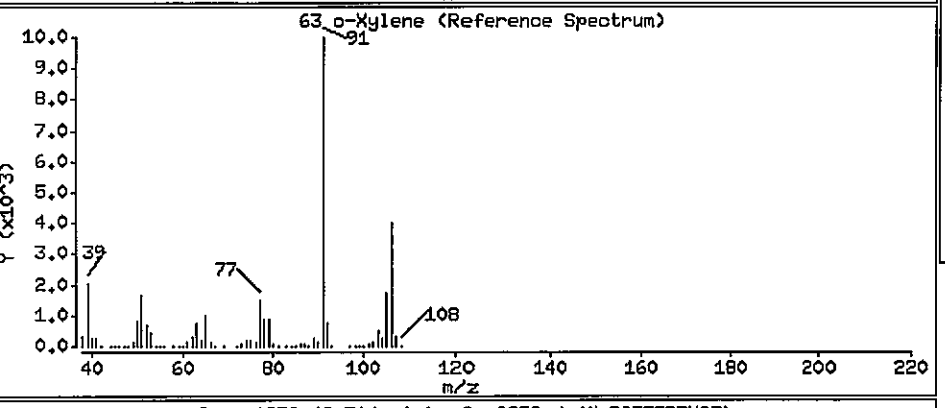
Column diameter: 0.53

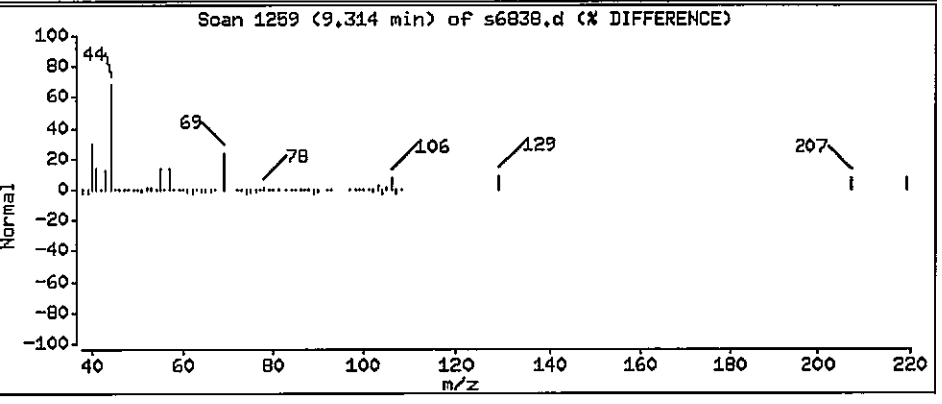
63 o-Xylene

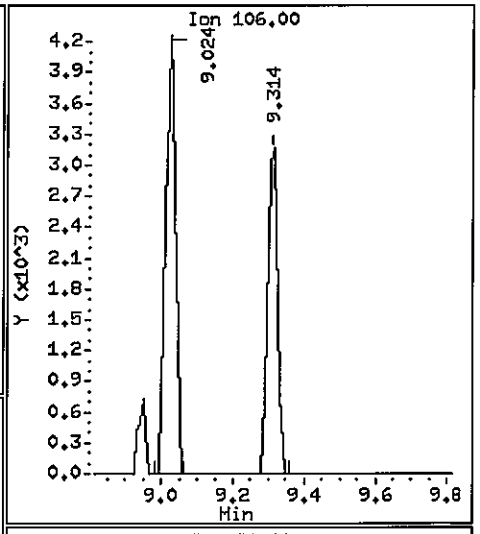
Concentration: 1.35 ug/Kg

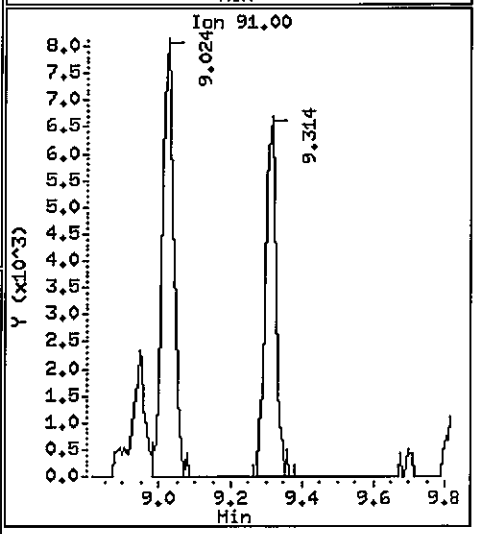












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6862.d
Lab Smp Id: 20311062412 Client Smp ID: 86-B146-S-1105-03
Inj Date : 08-NOV-2003 13:40
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062412*86-B146-S-1105-03
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 08-Nov-2003 12:05 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 9
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	5.19000	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	6.117	6.118	(0.922)	145476	52.7881	50.9	4607
32 1,2-Dichloroethane-d4	67	6.420	6.414	(0.967)	74295	48.1672	46.4	9468
35 FLUOROBENZENE	96	6.637	6.638	(1.000)	535708	50.0000		9566
46 Toluene-d8	98	7.816	7.810	(0.879)	502203	52.0367	50.1	8686
58 Chlorobenzene-d5	82	8.895	8.889	(1.000)	223817	50.0000		8706
67 Bromofluorobenzene	174	9.699	9.693	(1.090)	139299	50.0543	48.2	8620
81 1,4-DICHLOROBENZENE-D4	152	10.475	10.463	(1.000)	151619	50.0000		9666

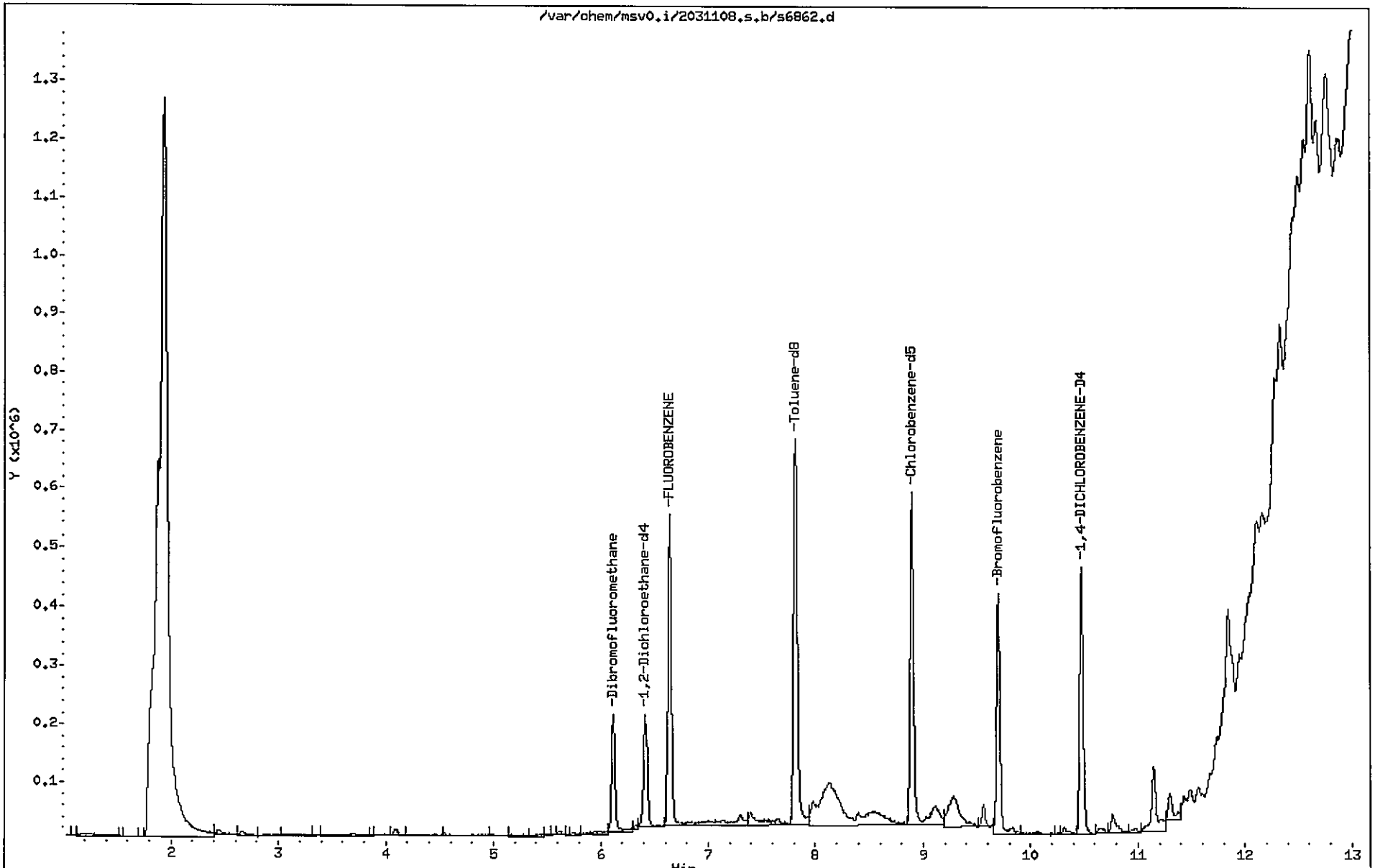
Data File: /var/chem/msv0.i/2031108.s.b/s6862.d
Date : 08-NOV-2003 13:40
Client ID: 86-B146-S-1105-03
Sample Info: 20311062412M86-B146-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000132



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6840.d
Lab Smp Id: 20311062413 Client Smp ID: 86-B158-S-1105-03
Inj Date : 08-NOV-2003 00:43
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062413*86-B158-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.09000	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	6.125	6.124	(0.923)	157061	53.5492	52.6	5321
32 1,2-Dichloroethane-d4	67	6.421	6.426	(0.967)	77992	47.5097	46.7	9448
35 FLUOROBENZENE	96	6.638	6.644	(1.000)	570149	50.0000		9614
46 Toluene-d8	98	7.816	7.822	(0.879)	554787	53.7311	52.8	8539
58 CHLOROBENZENE-d5	82	8.896	8.902	(1.000)	239455	50.0000		8629
67 Bromofluorobenzene	174	9.693	9.705	(1.090)	149430	50.1880	49.3	8564
81 1,4-DICHLOROBENZENE-D4	152	10.463	10.482	(1.000)	164851	50.0000		9628
61 Ethylbenzene +	106	8.949	8.954	(1.006)	4497	1.00105	0.983	6314(H)
62 p,m-Xylene	106	9.021	9.033	(1.014)	12491	2.16893	2.13	8113
84 TOTAL XYLENE	106				12491	2.16893	2.13	0

QC Flag Legend

I - Operator selected an alternate compound hit.

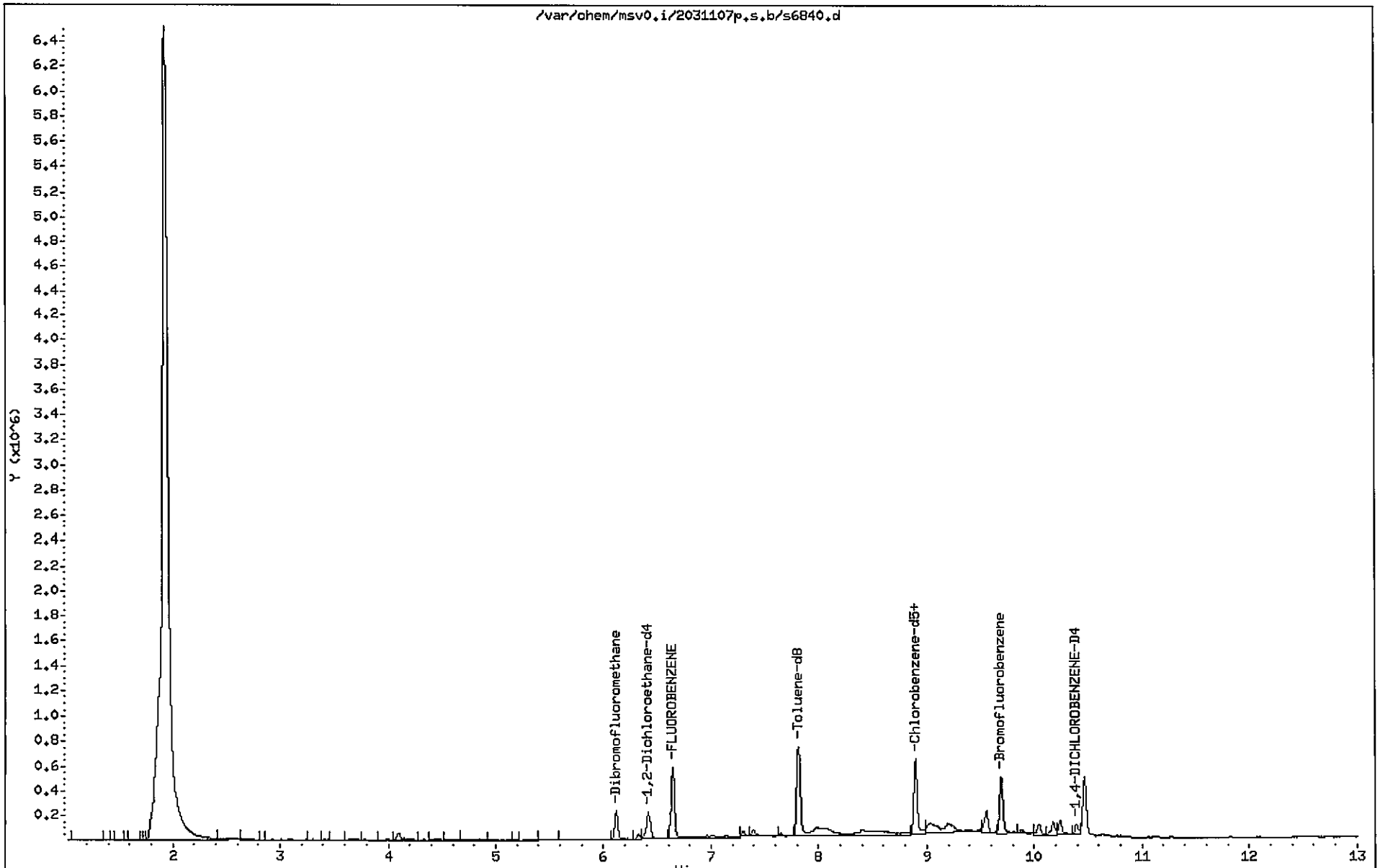
Data File: /var/chem/msv0.i/2031107p.s.b/s6840.d
Date : 08-NOV-2003 00:43
Client ID: B6-B158-S-1105-03
Sample Info: 20311062413*B6-B158-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000135



Data File: /var/chem/msv0.i/2031107p.s.b/s6840.d

Date : 08-NOV-2003 00:43

Client ID: 86-B158-S-1105-03

Instrument: msv0.i

Sample Info: 20311062413M86-B158-S-1105-03

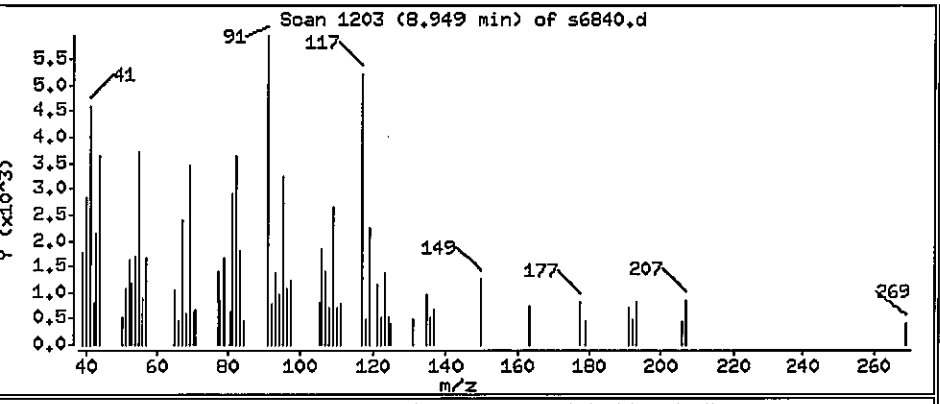
Operator: KRV

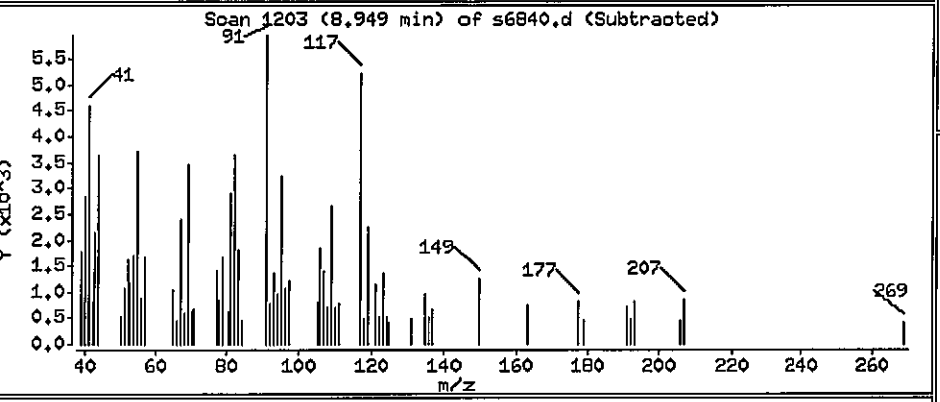
Column phase: DB-624-30M

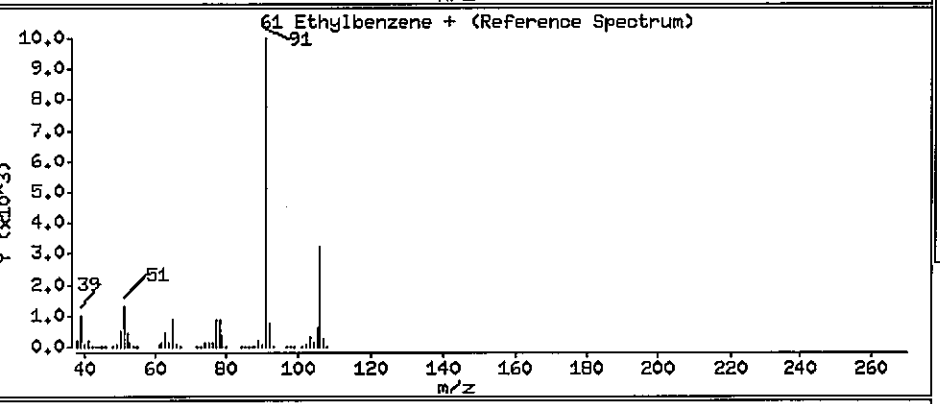
Column diameter: 0.53

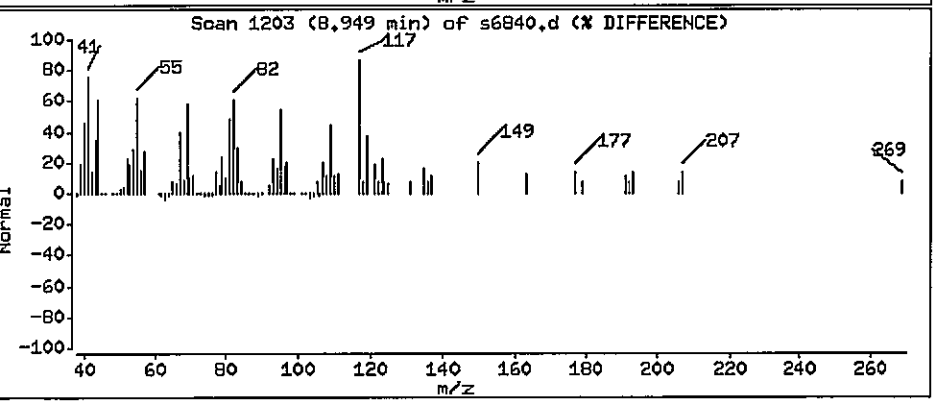
61 Ethylbenzene +

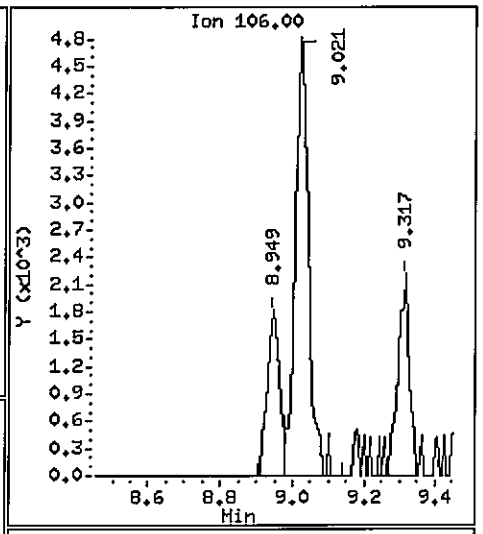
Concentration: 0.983 ug/Kg

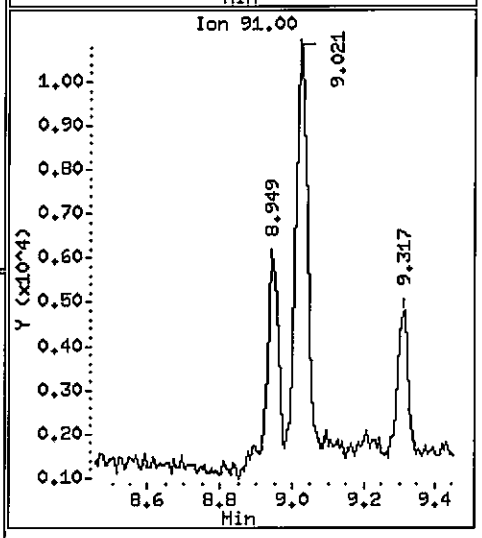












Data File: /var/chem/msv0.i/2031107p.s.b/s6840.d

Date : 08-NOV-2003 00:43

Client ID: 86-B158-S-1105-03

Instrument: msv0.i

Sample Info: 20311062413M86-B158-S-1105-03

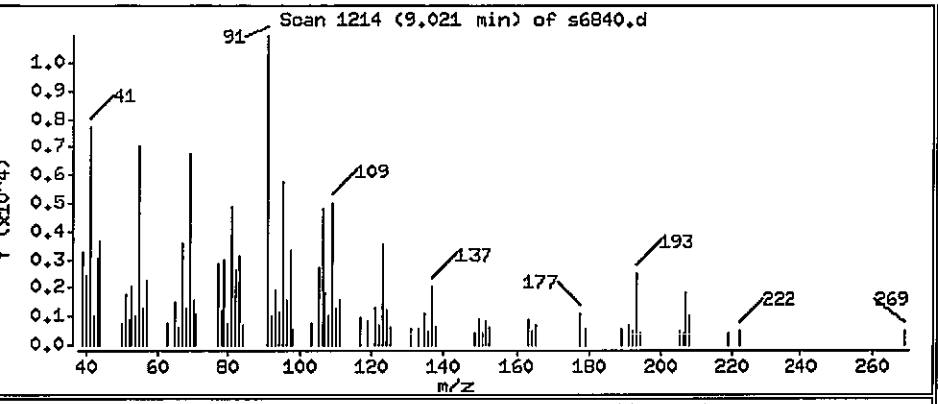
Operator: KRV

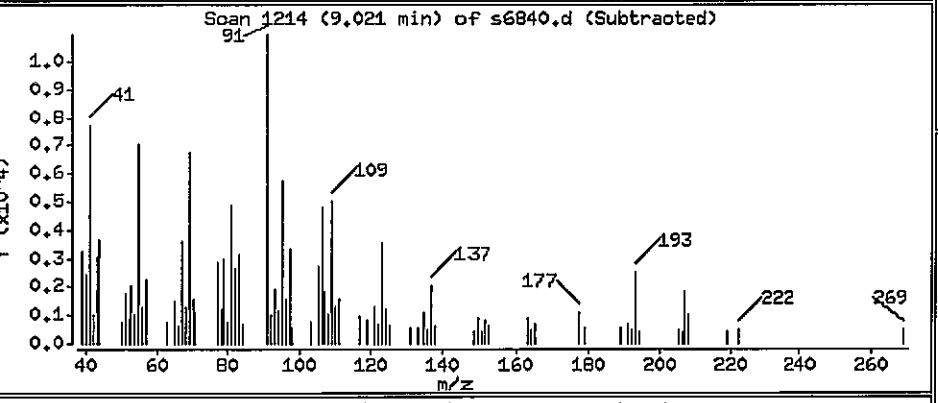
Column phase: DB-624-30M

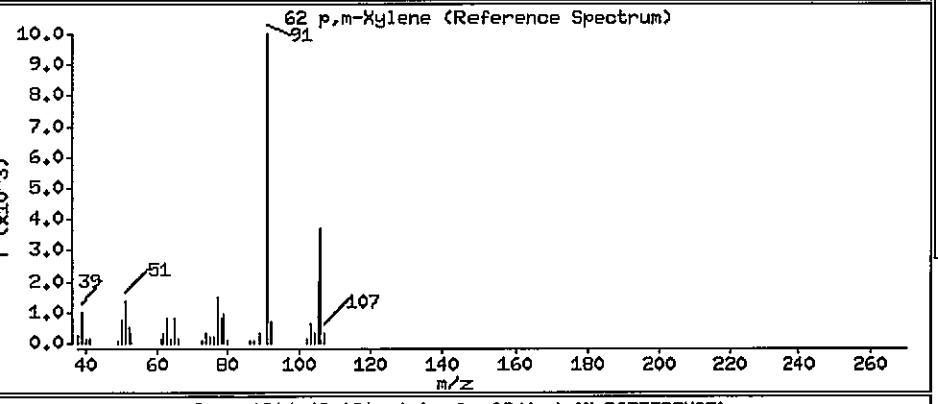
Column diameter: 0.53

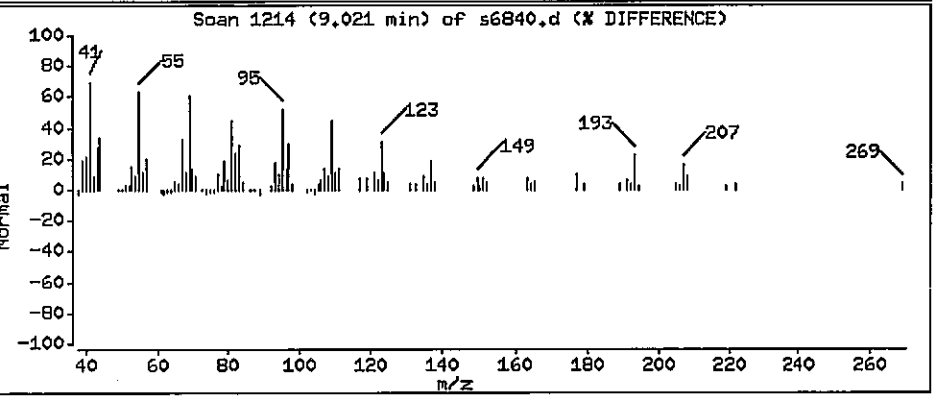
62 p,m-Xylene

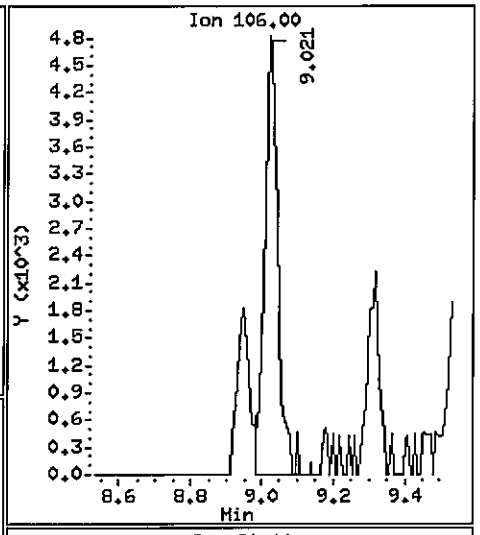
Concentration: 2.13 ug/Kg

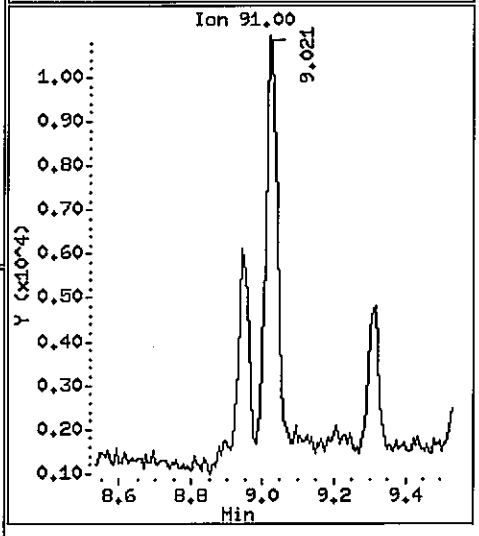












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6841.d
Lab Smp Id: 20311062414 Client Smp ID: 86-B167-S-1105-03
Inj Date : 08-NOV-2003 01:05
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062414*86-B167-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.23000	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	6.117	6.124	(0.922)	161931	52.9828	50.7	1283
32 1,2-Dichloroethane-d4	67	6.420	6.426	(0.967)	81701	47.7617	45.7	9516
35 FLUOROBENZENE	96	6.637	6.644	(1.000)	594112	50.0000		9626
46 Toluene-d8	98	7.816	7.822	(0.879)	575788	51.0021	48.8	8532
58 CHLOROBENZENE-d5	82	8.895	8.902	(1.000)	261817	50.0000		8705
67 Bromofluorobenzene	174	9.692	9.705	(1.090)	172080	52.8590	50.5	8633
81 1,4-DICHLOROBENZENE-D4	152	10.469	10.482	(1.000)	210923	50.0000		9649(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

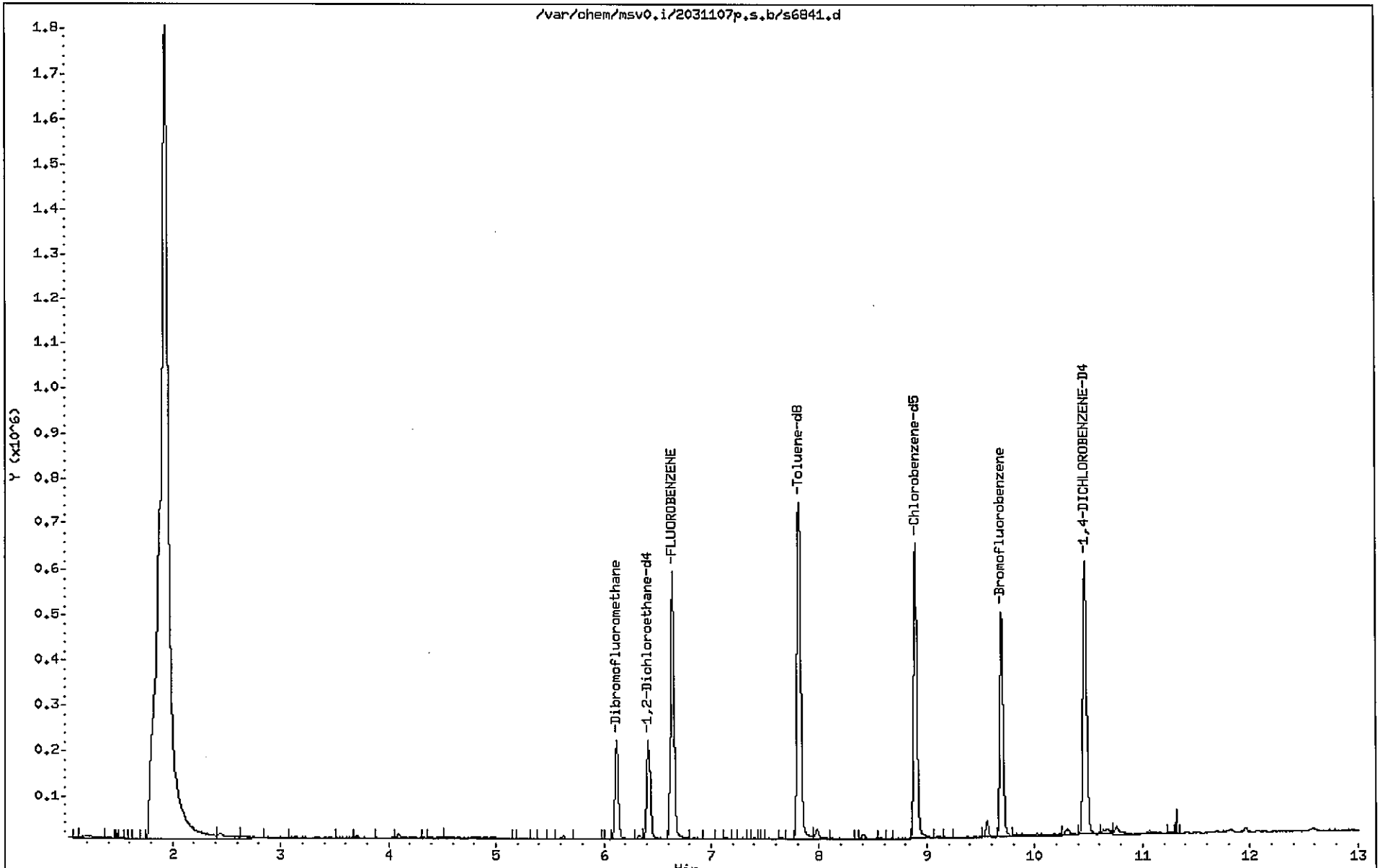
Data File: /var/chem/msv0.i/2031107p.s.b/s6841.d
Date : 08-NOV-2003 01:05
Client ID: 86-B167-S-1105-03
Sample Info: 20311062414*86-B167-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000139



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6824.d
Lab Smp Id: 20311062415 Client Smp ID: 86-B189-S-1105-03
Inj Date : 07-NOV-2003 18:49
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062415*86-B189-S-1105-03
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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
25 Dibromofluoromethane	111	6.121	6.124	(0.922)	161756	53.8221	53.8	1773
32 1,2-Dichloroethane-d4	67	6.418	6.426	(0.966)	90559	53.8368	53.8	9498(H)
35 FLUOROBENZENE	96	6.642	6.644	(1.000)	584215	50.0000		9358
46 Toluene-d8	98	7.820	7.822	(0.879)	541930	49.6066	49.6	8961
58 CHLOROBENZENE-d5	82	8.900	8.902	(1.000)	253354	50.0000		9116
67 Bromofluorobenzene	174	9.703	9.705	(1.090)	146895	46.6300	46.6	8279
81 1,4-DICHLOROBENZENE-D4	152	10.473	10.482	(1.000)	169987	50.0000		9246

QC Flag Legend

H - Operator selected an alternate compound hit.

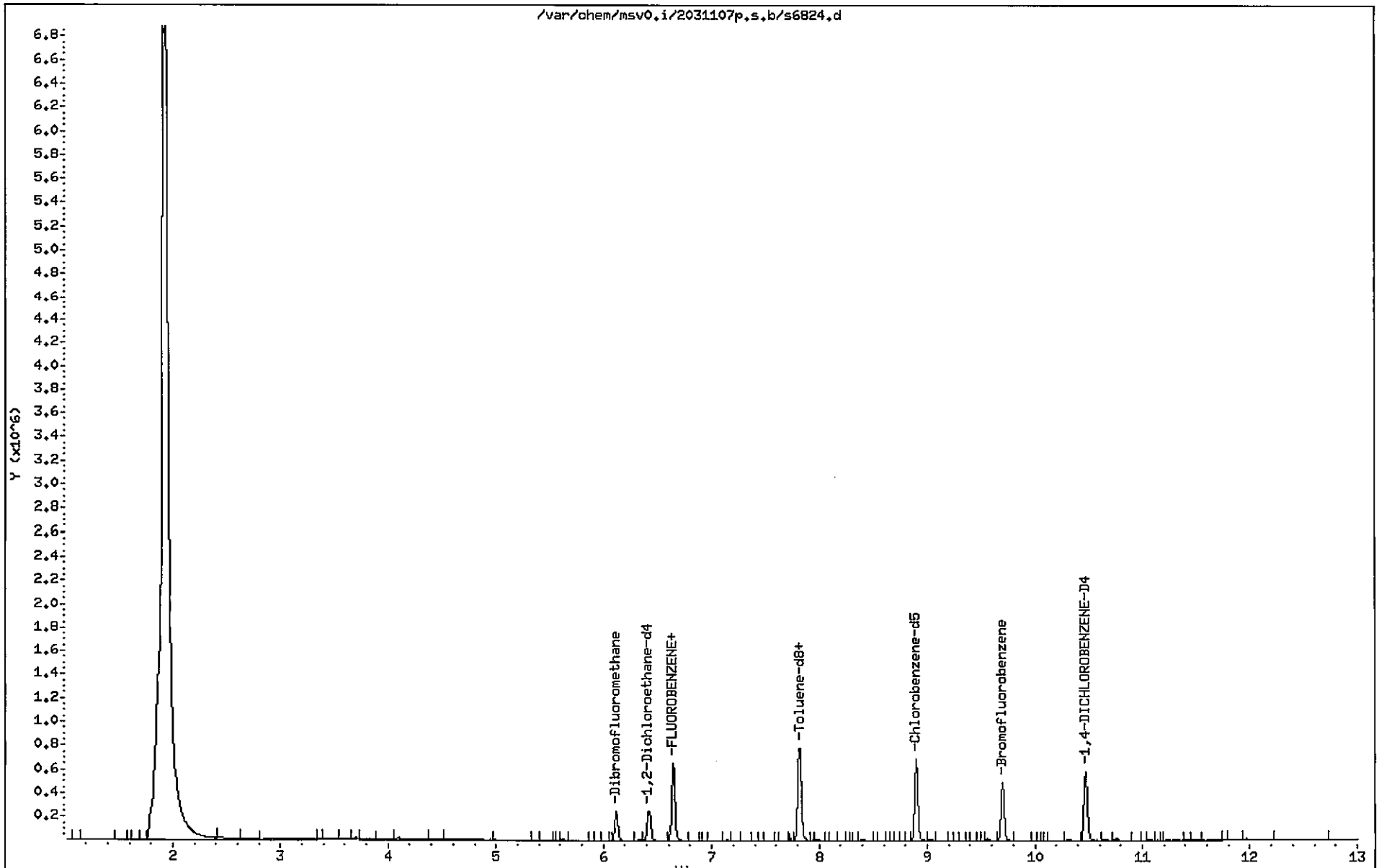
Data File: /var/chem/msv0.i/2031107p.s.b/s6824.d
Date : 07-NOV-2003 18:49
Client ID: 86-B189-S-1105-03
Sample Info: 20311062415X86-B189-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

0001411



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0407.d
Lab Smp Id: 20311062418 Client Smp ID: 86-DUP1-S-1010-02
Inj Date : 10-NOV-2003 12:12
Operator : RJO Inst ID: msv2.i
Smp Info : 20311062418*86-DUP1-S-1010-02
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 10
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: btexs+mtbe+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	4.67000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)
Va	100.00000	Volume of aliquot extract added (uL)

Cpnd Variable Local Compound Variable

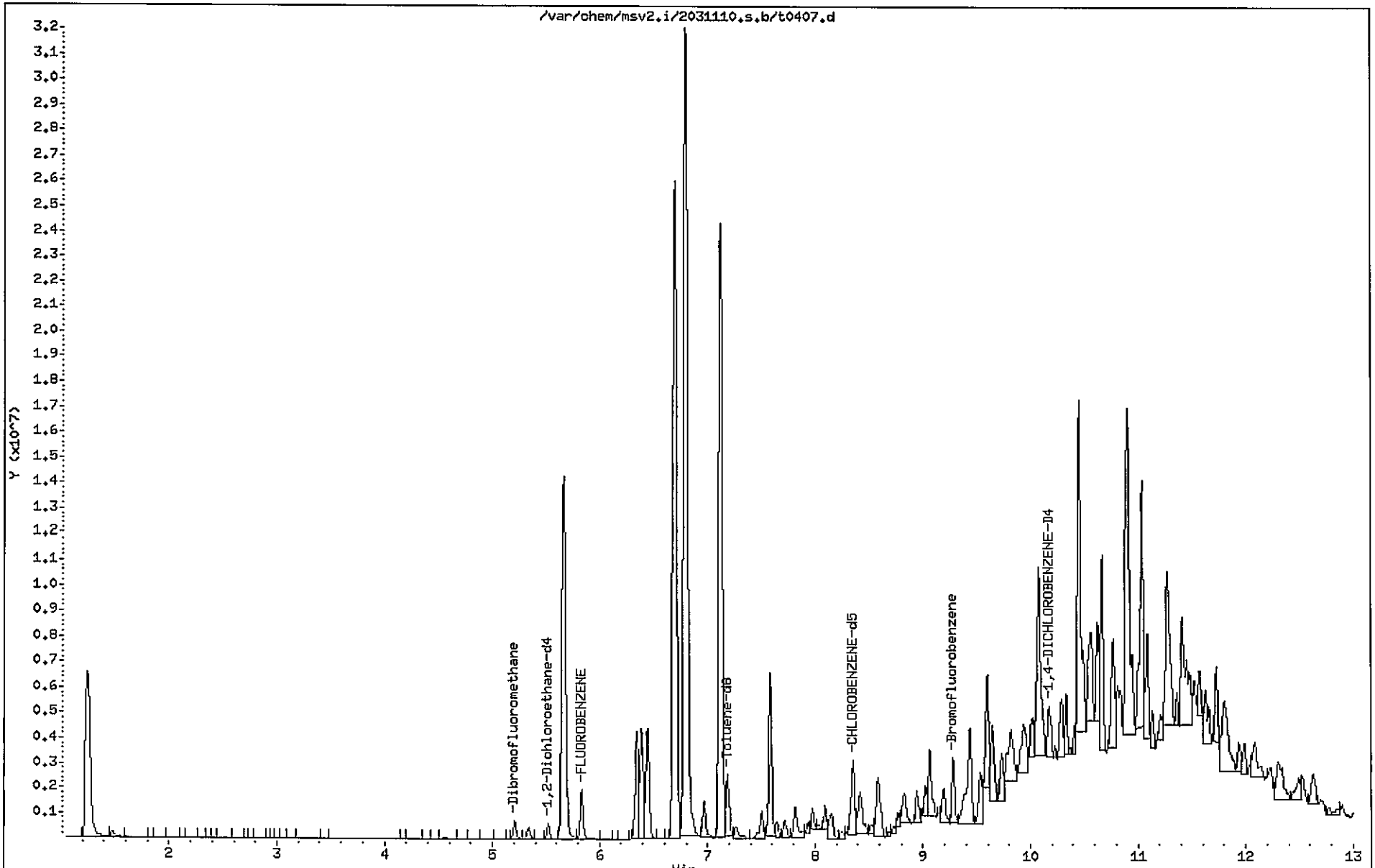
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
73 Ethylbenzene +	106	8.468	8.452	(1.013)	25480	1.78184	95.4
44 1,2-Dichloroethane-d4	67	5.523	5.514	(0.947)	198144	44.1567	2360
38 Dibromofluoromethane	111	5.206	5.197	(0.892)	428756	45.0156	2410
47 FLUOROBENZENE	96	5.833	5.824	(1.000)	1683148	50.0000	
58 Toluene-d8	98	7.187	7.178	(0.859)	1531652	49.9652	2670
70 Chlorobenzene-d5	82	8.362	8.346	(1.000)	629293	50.0000	
81 Bromofluorobenzene	174	9.286	9.277	(0.912)	493103	45.8935	2460
99 1,4-DICHLOROBENZENE-D4	152	10.177	10.168	(1.000)	614454	50.0000	

Data File: /var/chem/msv2.i/2031110.s.b/t0407.d
Date : 10-NOV-2003 12:12
Client ID: 86-DUP1-S-1010-02
Sample Info: 2031106241B*86-DUP1-S-1010-02
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000143



Data File: /var/chem/msv2.i/2031110.s.b/t0407.d

Date : 10-NOV-2003 12:12

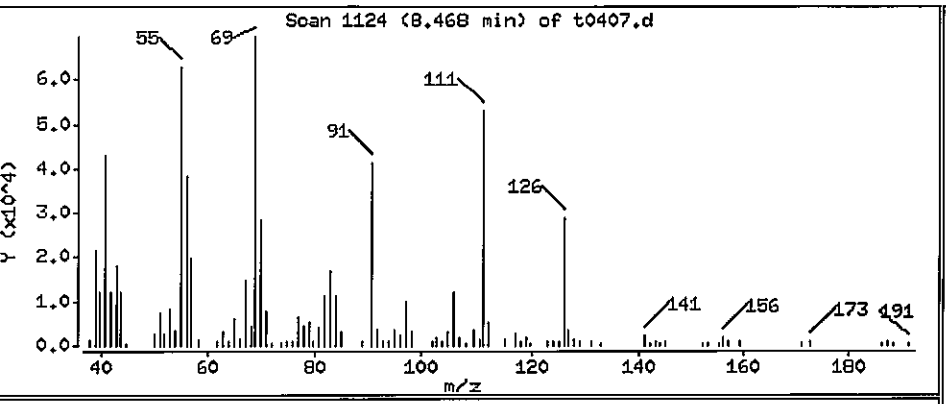
Client ID: B6-DUP1-S-1010-02 Instrument: msv2.i

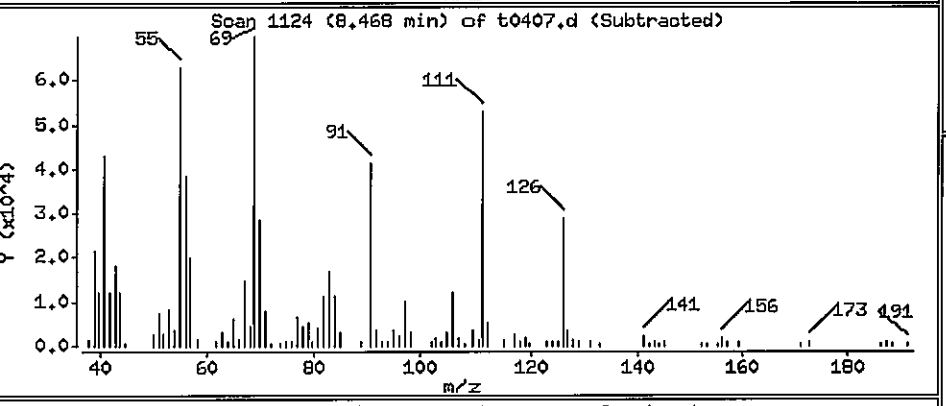
Sample Info: 20311062418x86-DUP1-S-1010-02

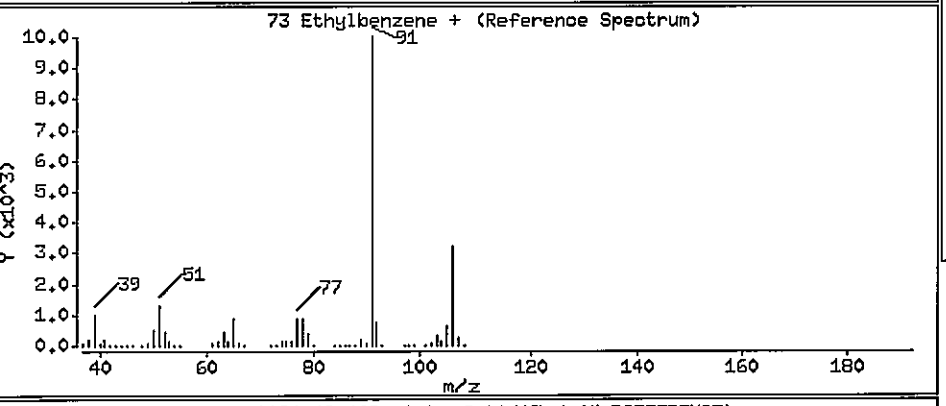
Purge Volume: 5.0 Operator: RJO

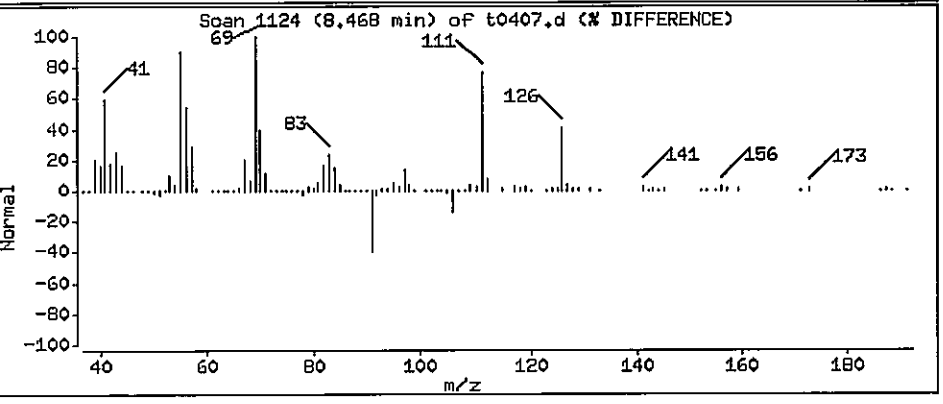
Column phase: DB-624-30M Column diameter: 0.53

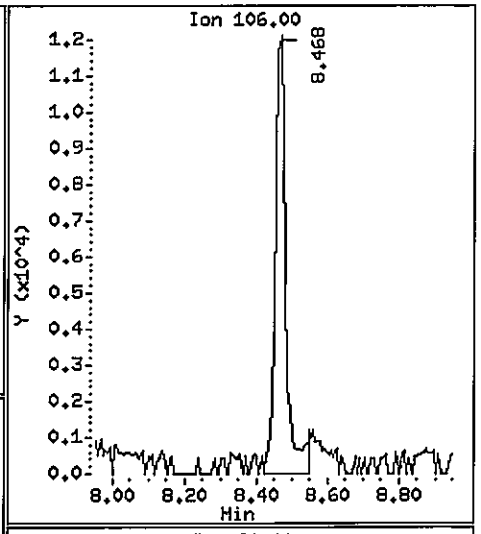
73 Ethylbenzene + Concentration: 95.4 UG/KG

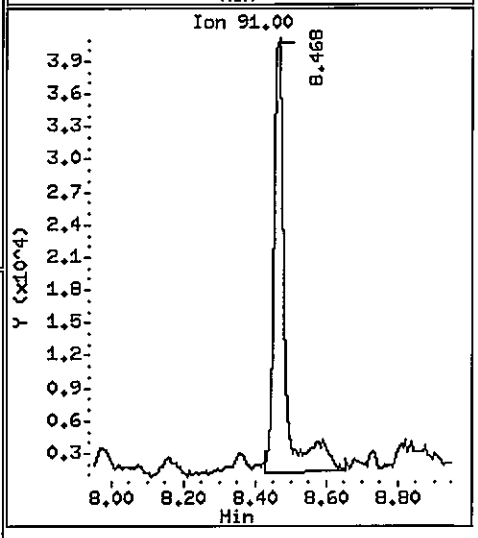












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6843.d
Lab Smp Id: 20311062419 Client Smp ID: 86-DUP2-S-1010-02
Inj Date : 08-NOV-2003 01:49
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062419*86-DUP2-S-1010-02
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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	5.18000	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	6.123	6.124	(0.922)	148872	51.5425	49.8	4179
32 1,2-Dichloroethane-d4	67	6.420	6.426	(0.966)	75261	46.5553	44.9	9404
35 FLUOROBENZENE	96	6.643	6.644	(1.000)	561463	50.0000		9584
46 Toluene-d8	98	7.815	7.822	(0.879)	548440	50.3575	48.6	8515
58 CHLOROBENZENE-d5	82	8.895	8.902	(1.000)	252574	50.0000		8540
67 Bromofluorobenzene	174	9.698	9.705	(1.090)	166074	52.8809	51.0	8265
81 1,4-DICHLOROBENZENE-D4	152	10.468	10.482	(1.000)	221026	50.0000		8729

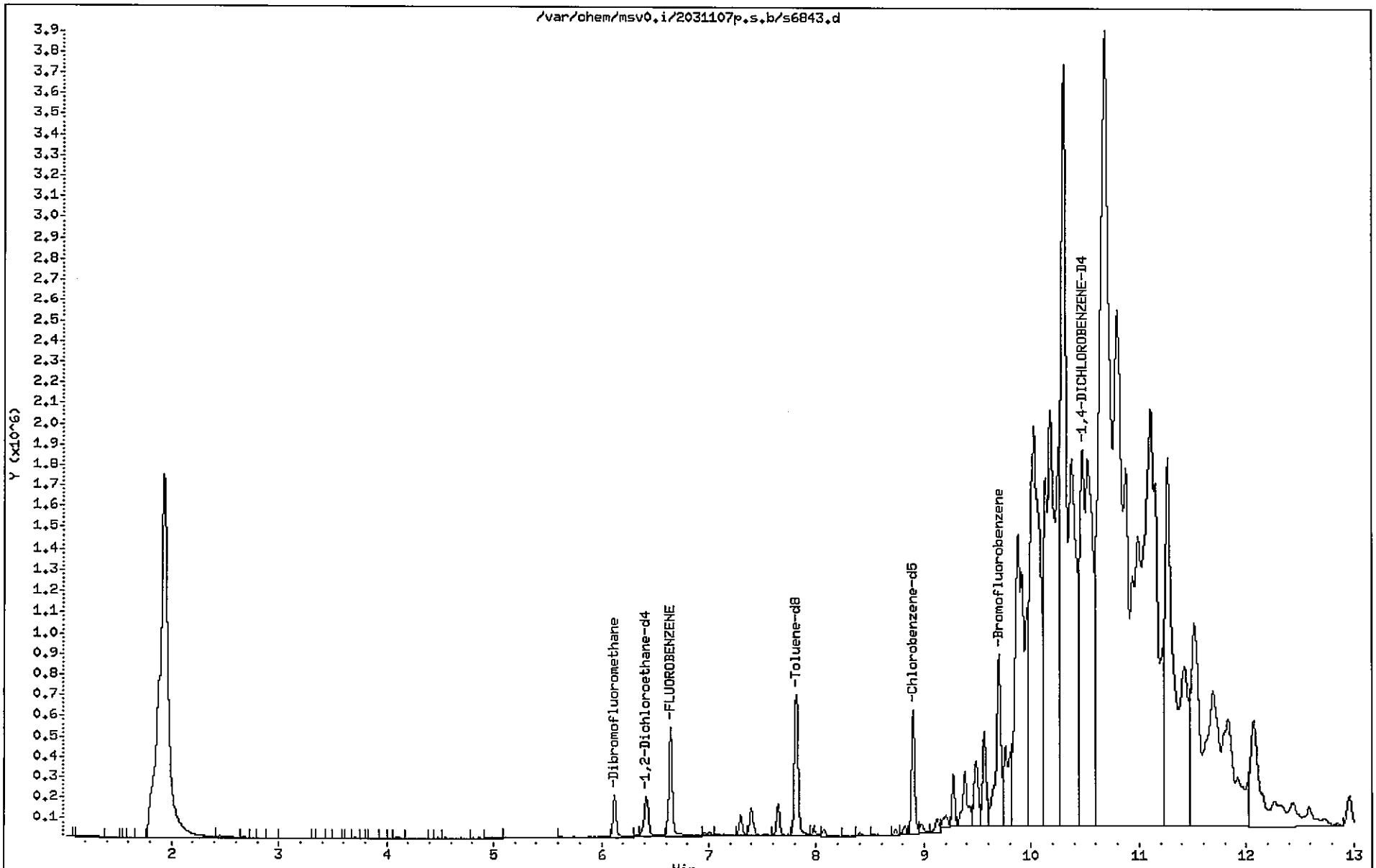
Data File: /var/chem/msv0.i/2031107p.s.b/s6843.d
Date : 08-NOV-2003 01:49
Client ID: 86-DUP2-S-1010-02
Sample Info: 20311062419*86-DUP2-S-1010-02

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000146



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4913.d
Lab Smp Id: 20311062420 Client Smp ID: 86-EB1-W-1105-03
Inj Date : 09-NOV-2003 11:40
Operator : RSP Inst ID: msv1.i
Smp Info : 20311062420*86-EB1-W-1105-03
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 09-Nov-2003 11:03 sab Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.d
Als bottle: 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	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
12 Acetone	43	3.965	3.914	(0.655)	348113	162.774	163	
36 Dibromofluoromethane	111	5.599	5.536	(0.925)	714620	52.1451	52.1	522
41 Chloroform +	83	5.473	5.410	(0.904)	65196	3.30335	3.30	(a)
43 1,2-Dichloroethane-d4	67	5.862	5.794	(0.969)	293656	49.7328	49.7	
47 FLUOROBENZENE	96	6.051	6.000	(1.000)	1665731	50.0000		
54 Bromodichloromethane	83	6.648	6.579	(1.098)	35655	1.95273	1.95	(aH)
59 Toluene-d8	98	7.117	7.049	(0.872)	1604173	52.1135	52.1	
70 CHLOROBENZENE-d5	82	8.166	8.092	(1.000)	871587	50.0000		
79 Bromofluorobenzene	174	9.163	9.089	(1.122)	634690	55.8268	55.8	
96 1,4-DICHLOROBENZENE-D4	152	10.315	10.224	(1.000)	778754	50.0000		

QC Flag Legend

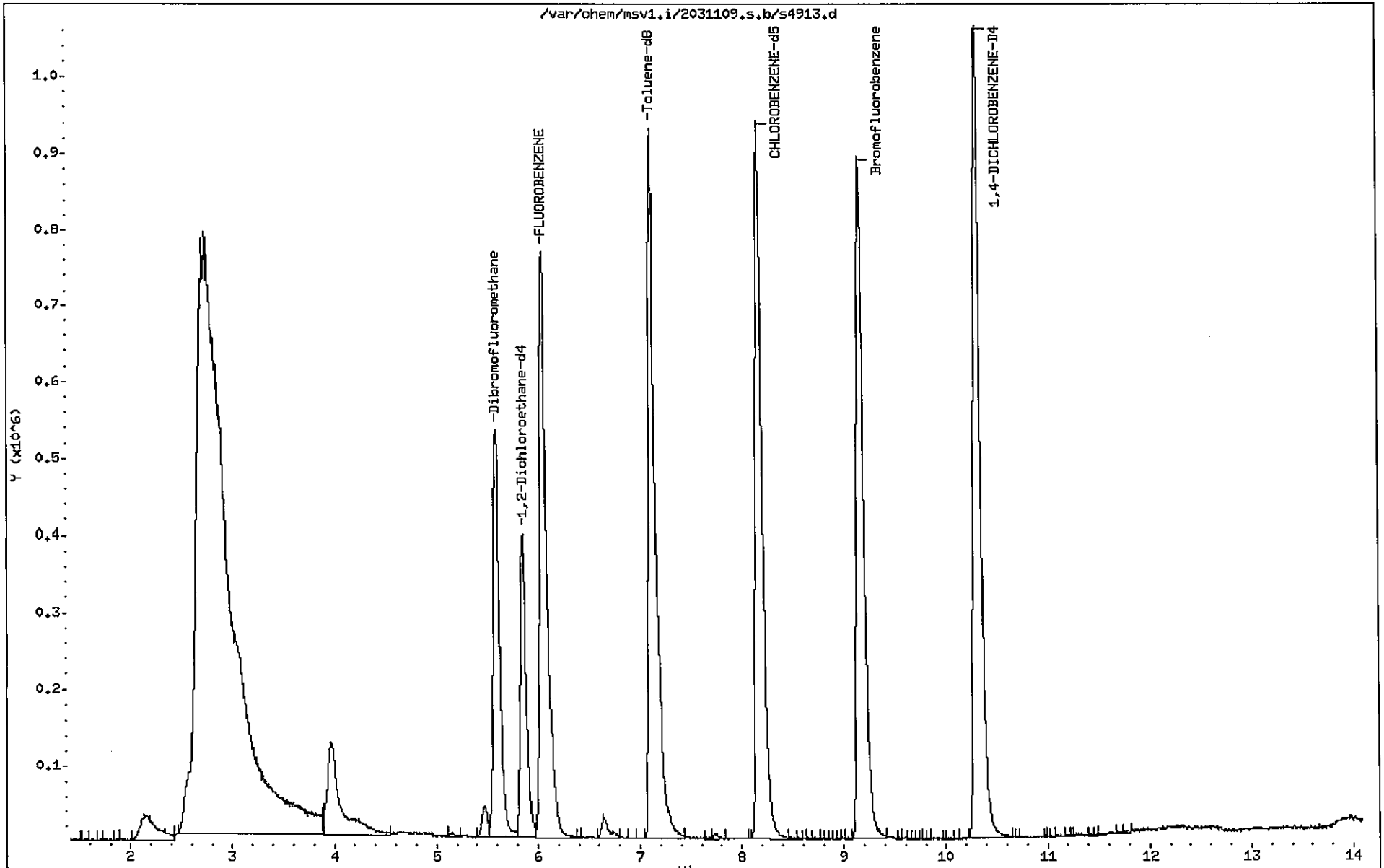
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
I - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031109.s.b/s4913.d
Date : 09-NOV-2003 11:40
Client ID: 86-EB1-W-1105-03
Sample Info: 20311062420%86-EB1-W-1105-03
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000149



Data File: /var/chem/msv1.i/2031109.s.b/s4913.d

Date : 09-NOV-2003 11:40

Client ID: 86-EB1-W-1105-03

Instrument: msv1.i

Sample Info: 20311062420W86-EB1-W-1105-03

Purge Volume: 5.0

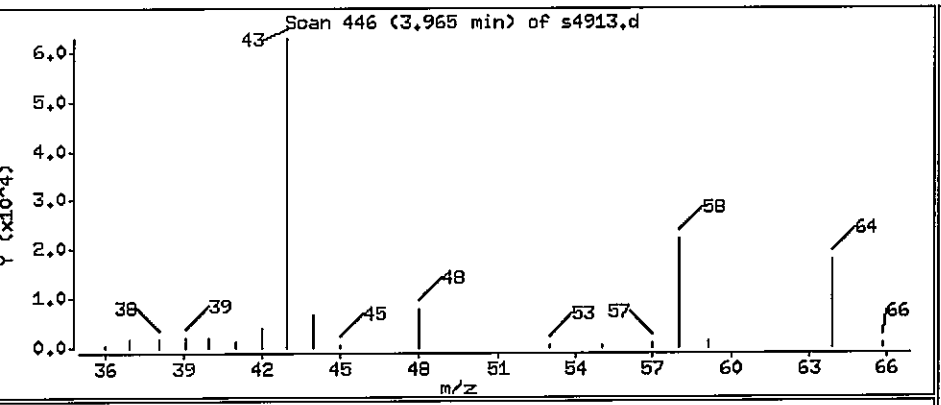
Operator: RSP

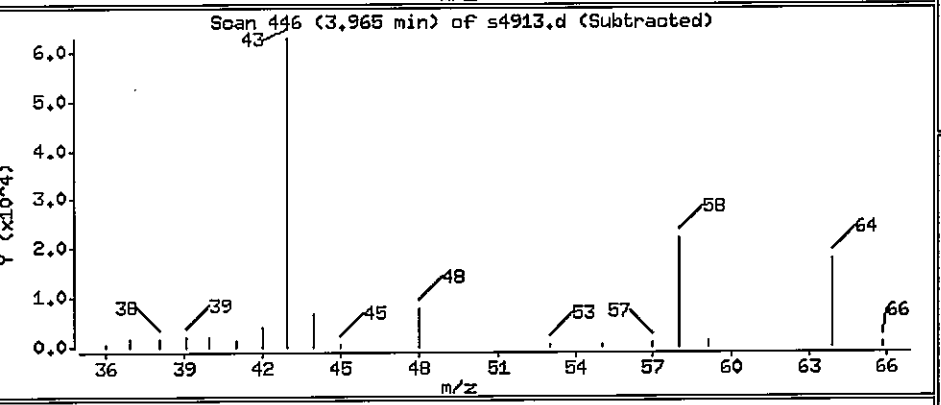
Column phase: DB-624-30M

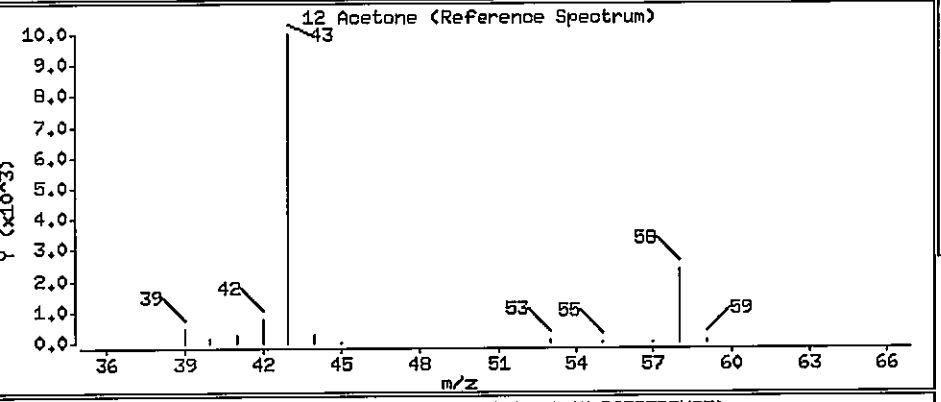
Column diameter: 0.53

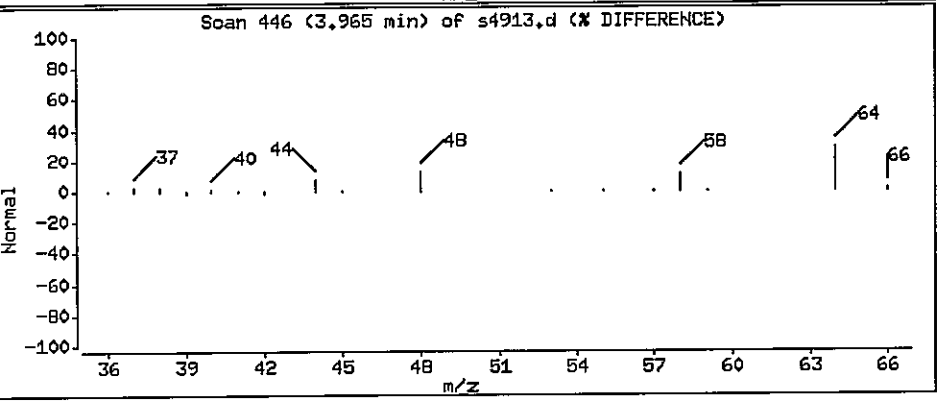
12 Acetone

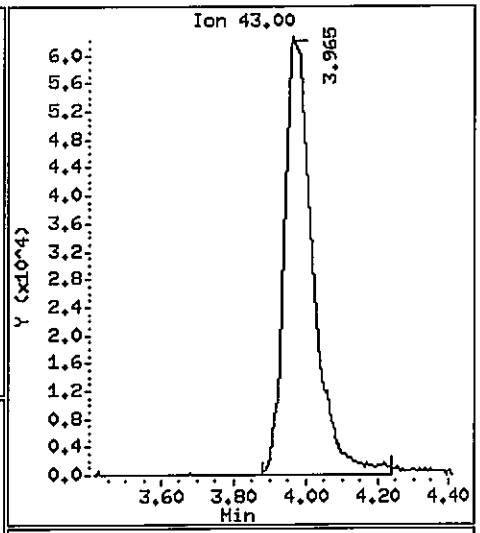
Concentration: 163 ug/L

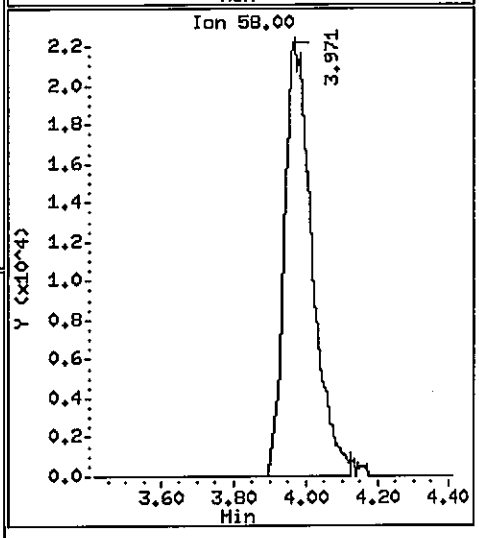












Data File: /var/chem/msv1.i/2031109.s.b/s4913.d

Date : 09-NOV-2003 11:40

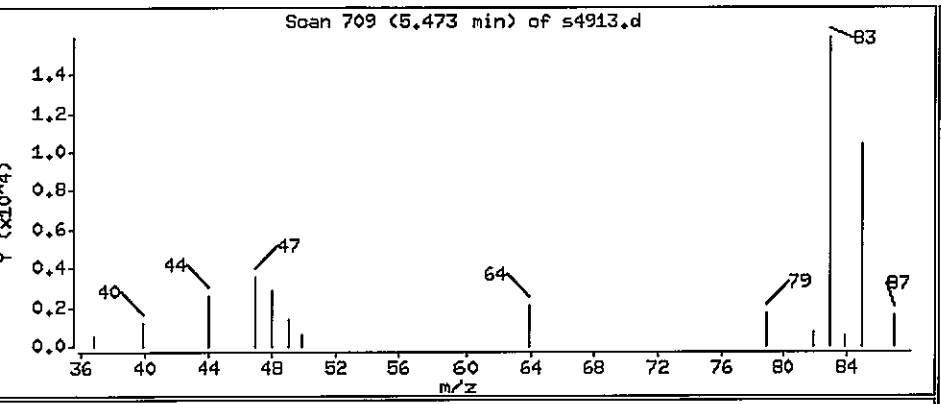
Client ID: B6-EB1-W-1105-03 Instrument: msv1.i

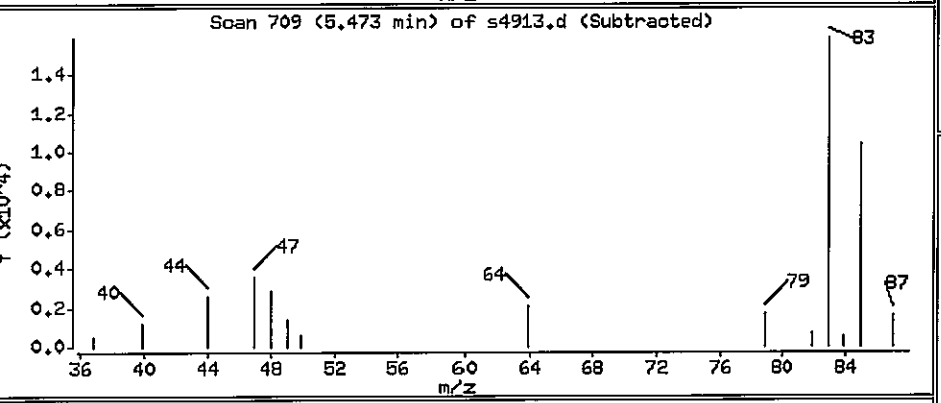
Sample Info: 20311062420WB6-EB1-W-1105-03

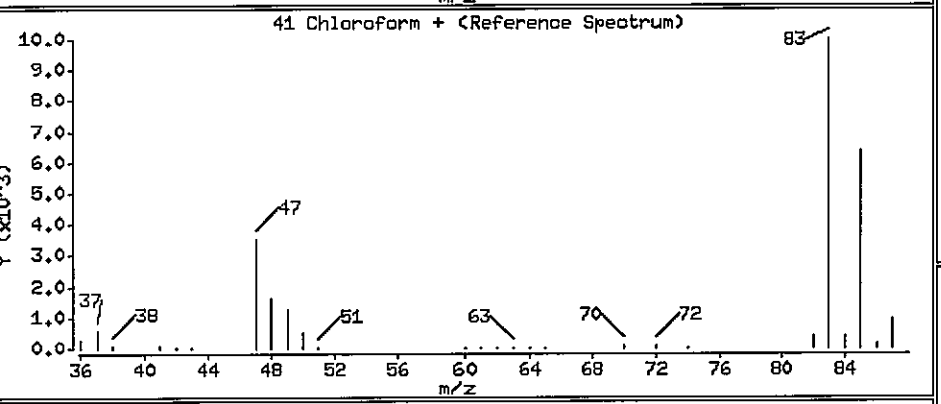
Purge Volume: 5.0 Operator: RSP

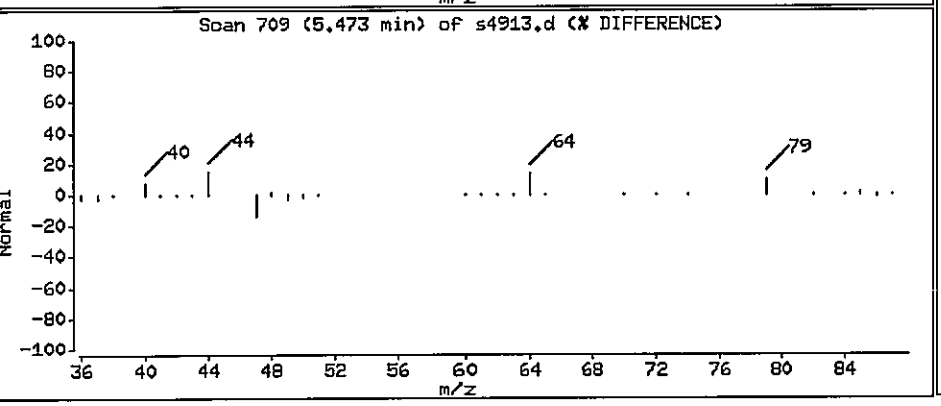
Column phase: DB-624-30M Column diameter: 0.53

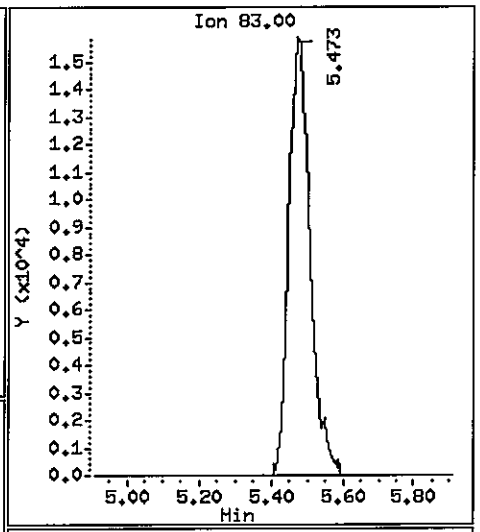
41 Chloroform + Concentration: 3.30 ug/L

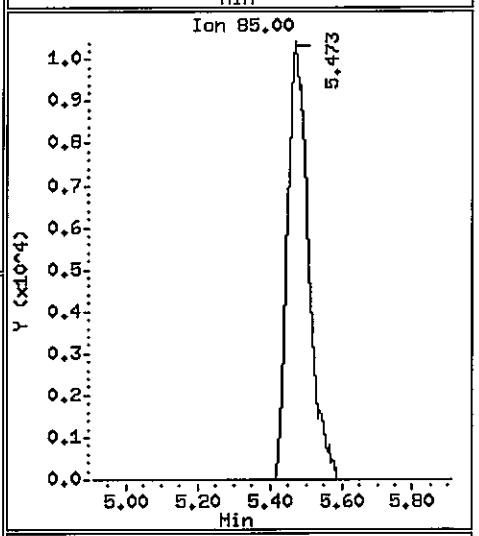


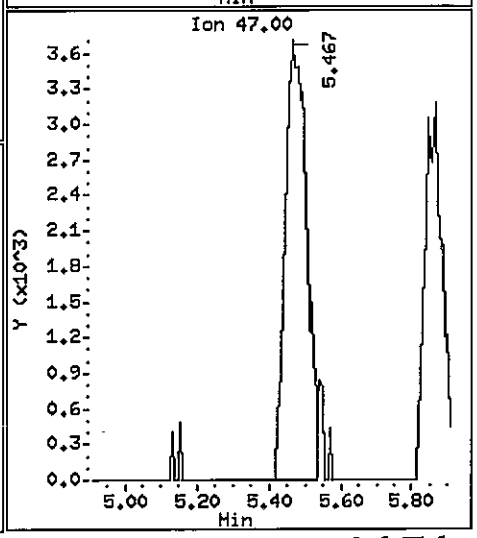












Data File: /var/chem/msv1.i/2031109.s.b/s4913.d

Date : 09-NOV-2003 11:40

Client ID: 86-EB1-W-1105-03

Instrument: msv1.i

Sample Info: 20311062420X86-EB1-W-1105-03

Purge Volume: 5.0

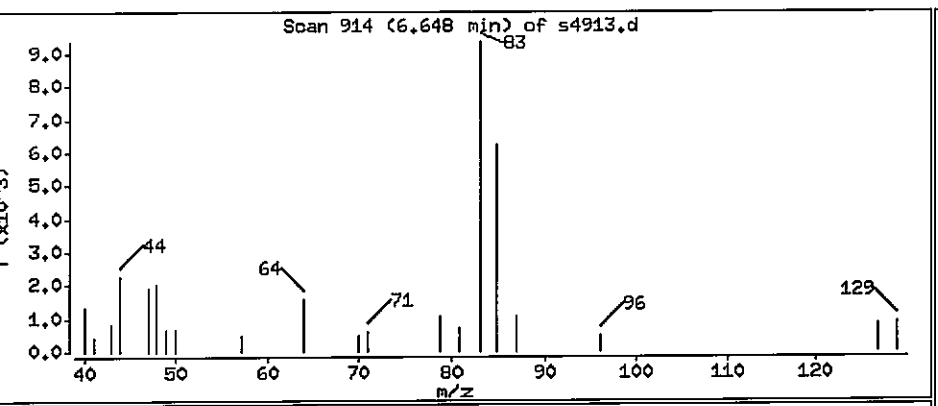
Operator: RSP

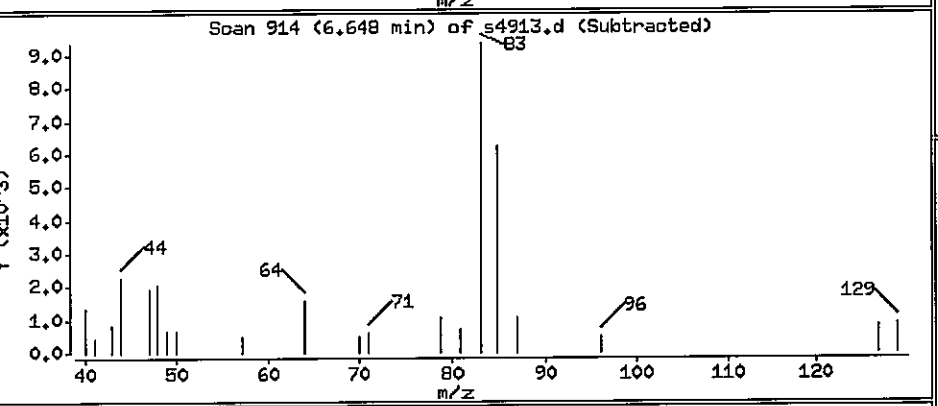
Column phase: DB-624-30M

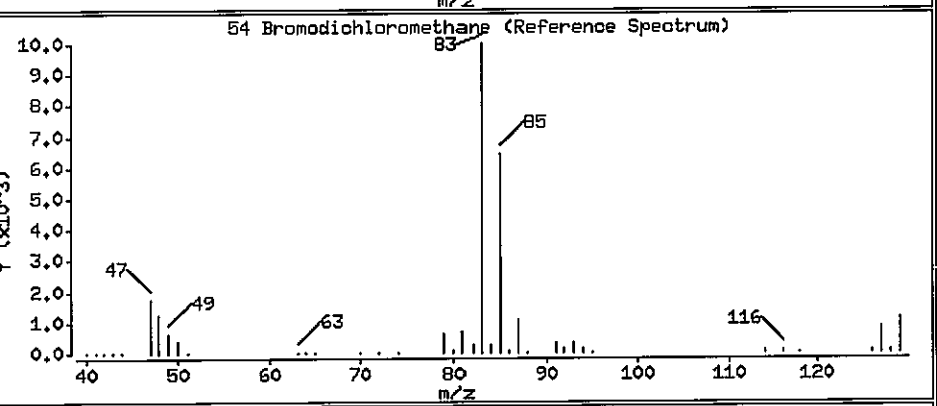
Column diameter: 0.53

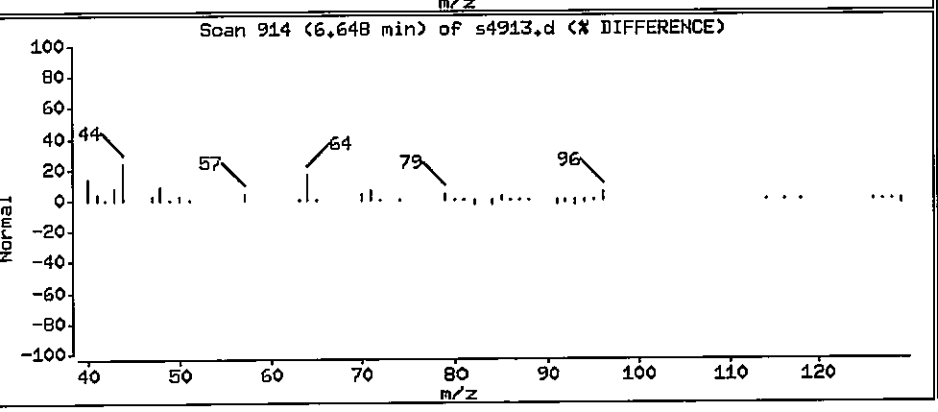
54 Bromodichloromethane

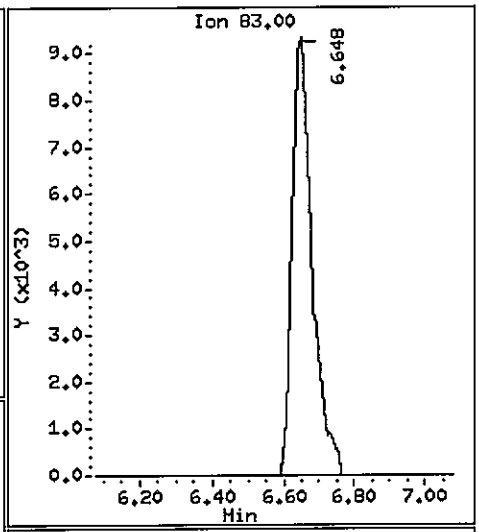
Concentration: 1.95 ug/L

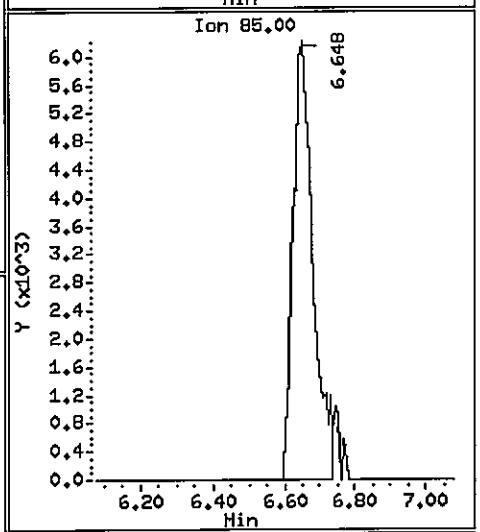


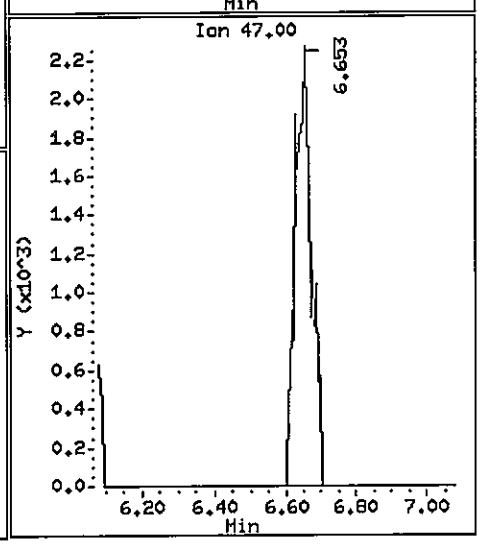












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4914.d
Lab Smp Id: 20311062421 Client Smp ID: 86-EB2-W-1105-03
Inj Date : 09-NOV-2003 12:04
Operator : RSP Inst ID: msv1.i
Smp Info : 20311062421*86-EB2-W-1105-03
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 09-Nov-2003 11:03 sab Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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
12 Acetone	43	3.971	3.914	(0.656)	294155	138.074	138	
36 Dibromofluoromethane	111	5.587	5.536	(0.922)	710491	52.0434	52.0	522
41 Chloroform +	83	5.461	5.410	(0.902)	53153	2.70352	2.70	(a)
43 1,2-Dichloroethane-d4	67	5.857	5.794	(0.967)	295239	50.1934	50.2	
47 FLUOROBENZENE	96	6.057	6.000	(1.000)	1659344	50.0000		
54 Bromodichloromethane	83	6.648	6.579	(1.097)	32204	1.77051	1.77	(a)
59 Toluene-d8	98	7.112	7.049	(0.870)	1612501	52.0255	52.0	
70 CHLOROBENZENE-d5	82	8.172	8.092	(1.000)	877593	50.0000		
79 Bromofluorobenzene	174	9.163	9.089	(1.121)	639222	55.8407	55.8	
96 1,4-DICHLOROBENZENE-D4	152	10.310	10.224	(1.000)	799283	50.0000		

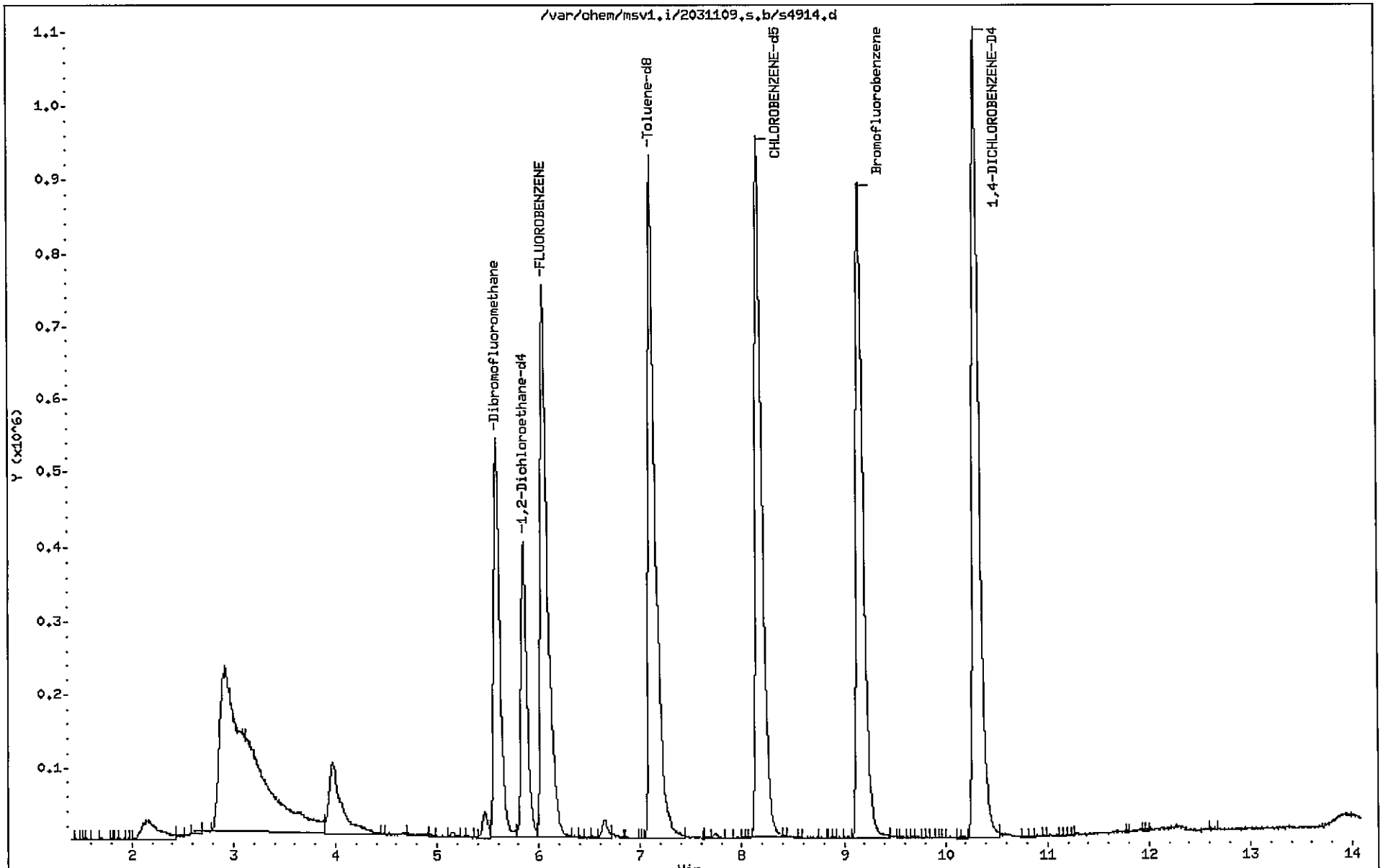
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv1.i/2031109.s.b/s4914.d
Date : 09-NOV-2003 12:04
Client ID: 86-EB2-W-1105-03
Sample Info: 20311062421*86-EB2-W-1105-03
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i
Operator: RSP
Column diameter: 0.53

000154



Data File: /var/chem/msv1.i/2031109.s.b/s4914.d

Date : 09-NOV-2003 12:04

Client ID: B6-EB2-W-1105-03

Instrument: msv1.i

Sample Info: 20311062421MB6-EB2-W-1105-03

Purge Volume: 5.0

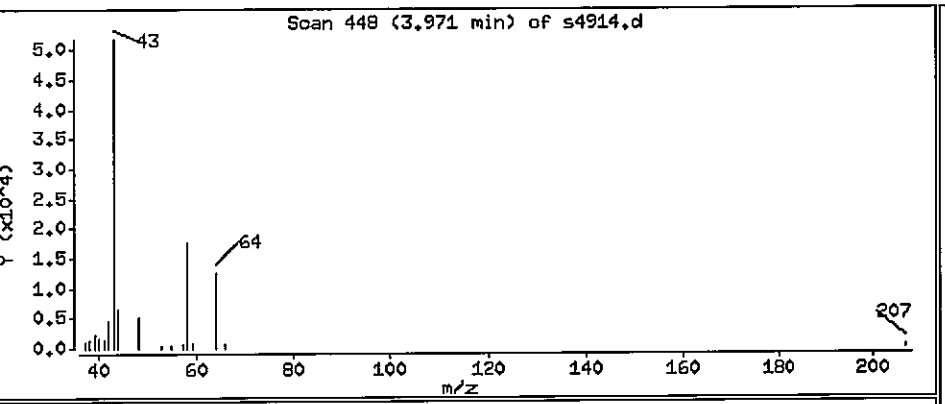
Operator: RSP

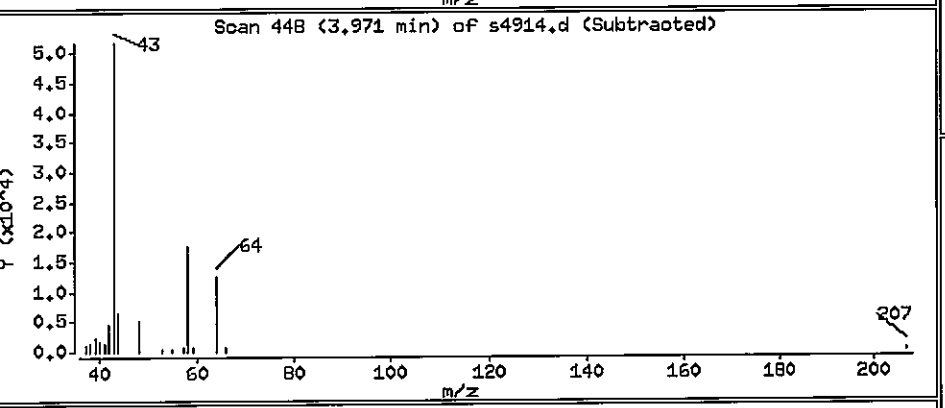
Column phase: DB-624-30M

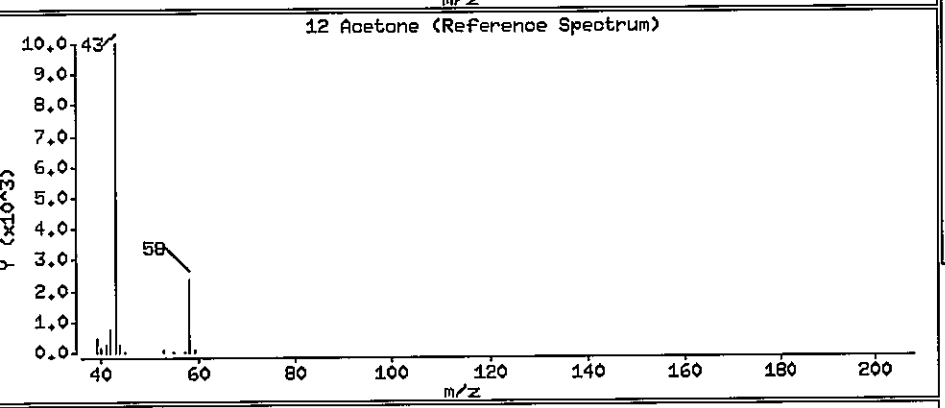
Column diameter: 0.53

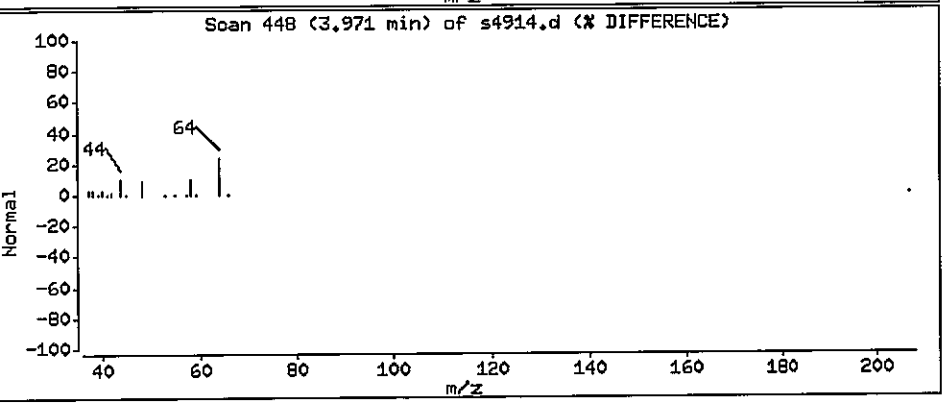
12 Acetone

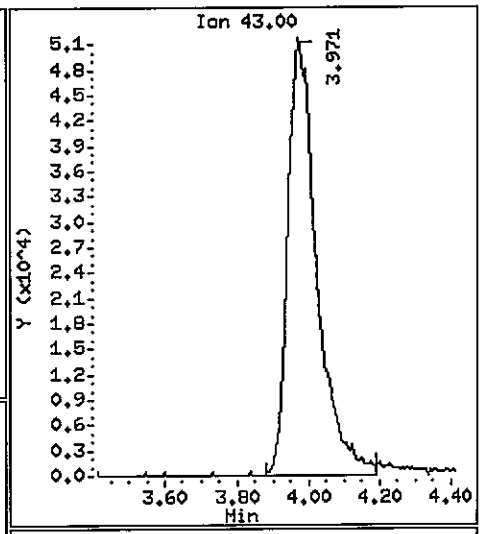
Concentration: 138 ug/L

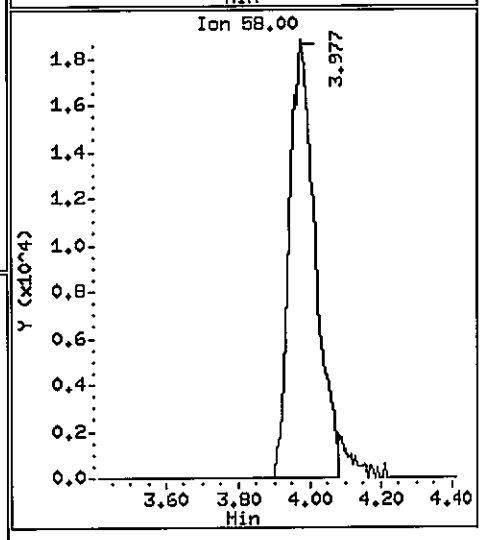












Data File: /var/chem/msv1.i/2031109.s.b/s4914.d

Date : 09-NOV-2003 12:04

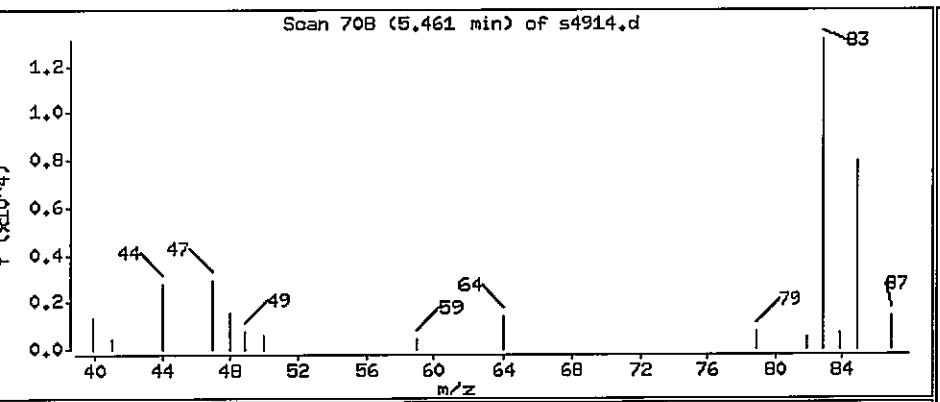
Client ID: 86-EB2-W-1105-03 Instrument: msv1.i

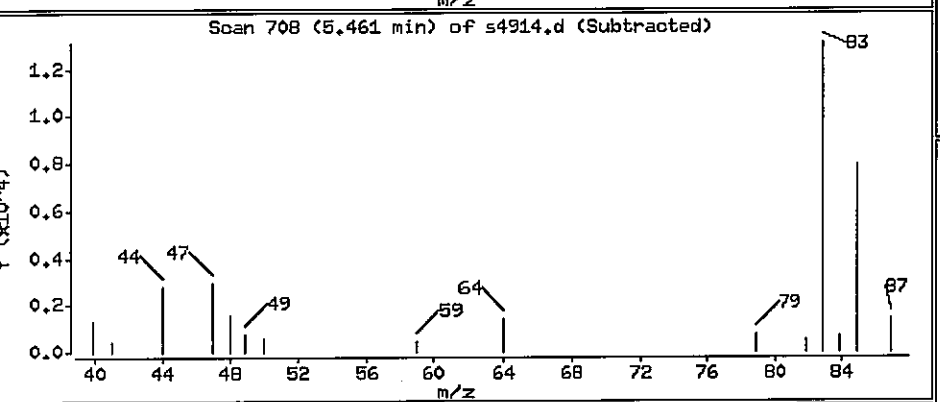
Sample Info: 20311062421M86-EB2-W-1105-03

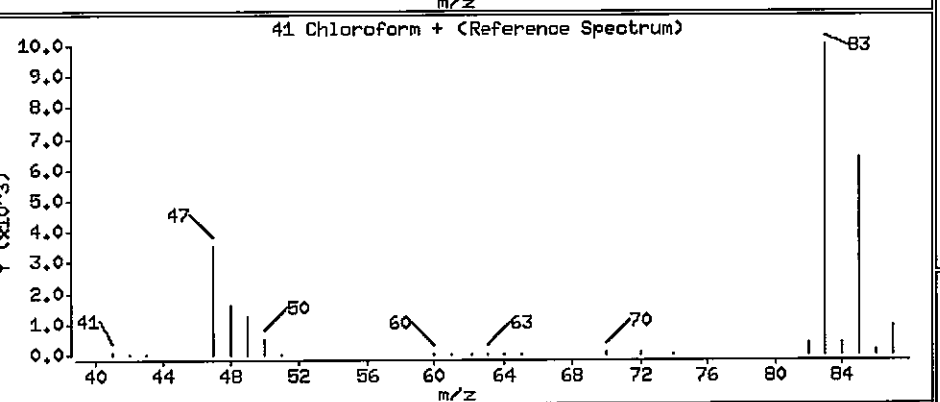
Purge Volume: 5.0 Operator: RSP

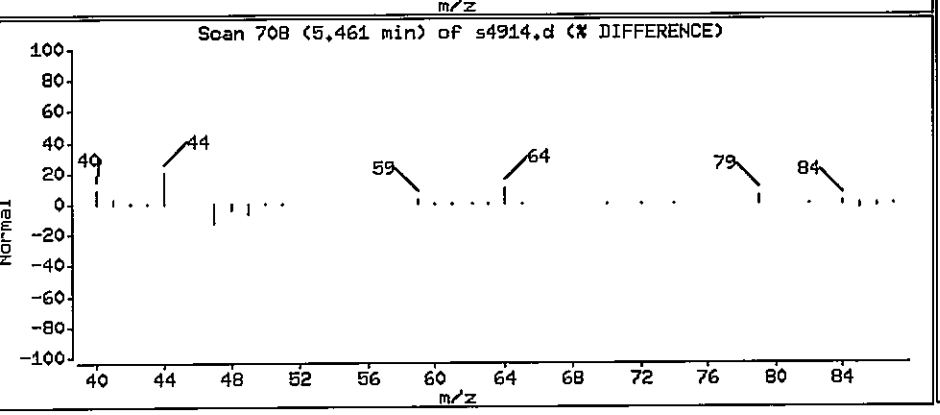
Column phase: DB-624-30M Column diameter: 0.53

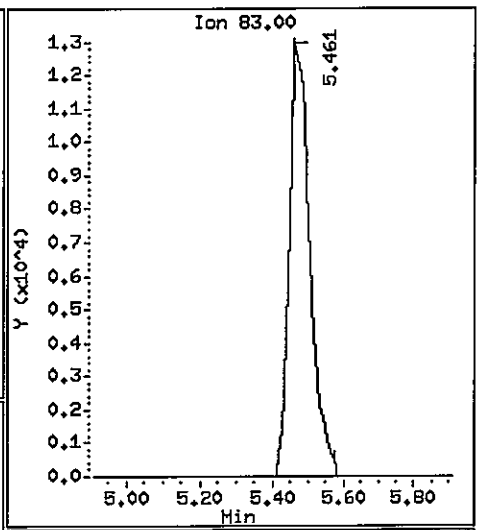
41 Chloroform + Concentration: 2.70 ug/L

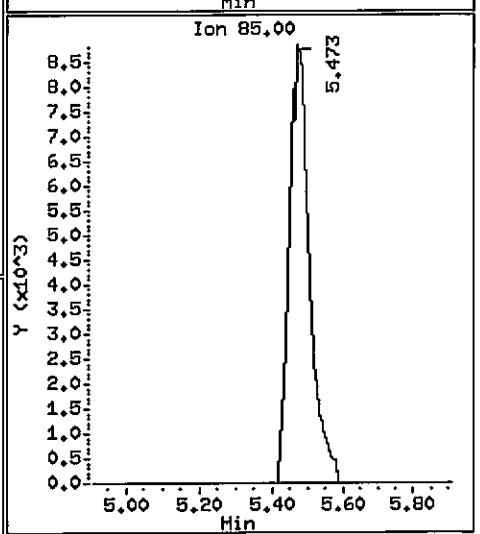


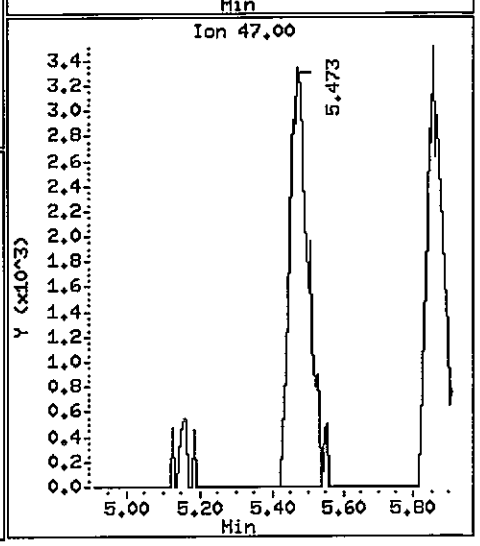












Data File: /var/chem/msv1.i/2031109.s.b/s4914.d

Date : 09-NOV-2003 12:04

Client ID: 86-EB2-W-1105-03

Instrument: msv1.i

Sample Info: 20311062421M86-EB2-W-1105-03

Purge Volume: 5.0

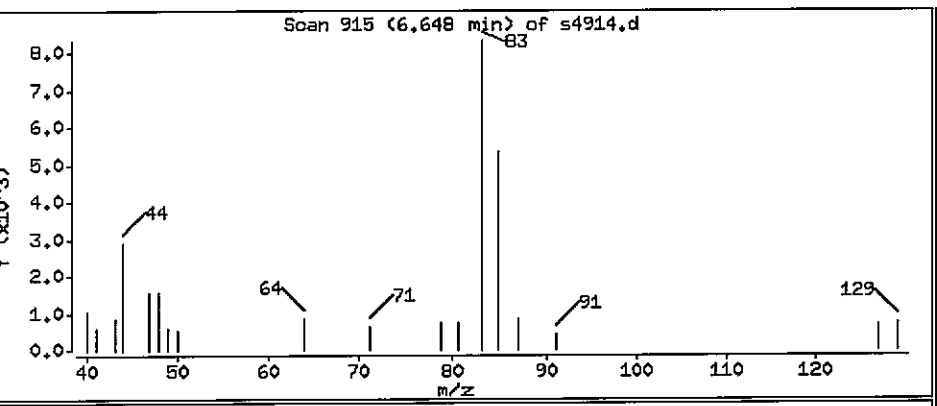
Operator: RSP

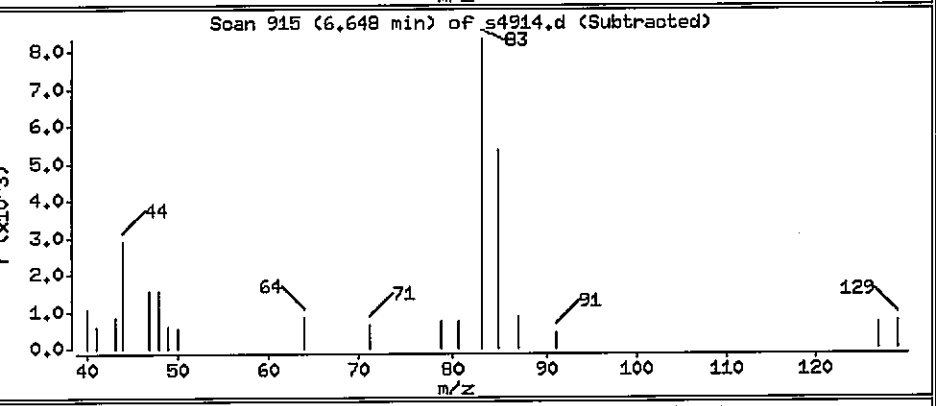
Column phase: DB-624-30M

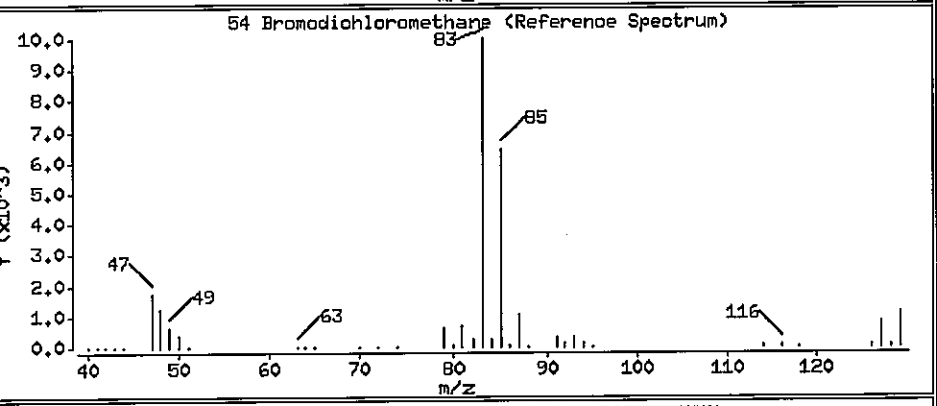
Column diameter: 0.53

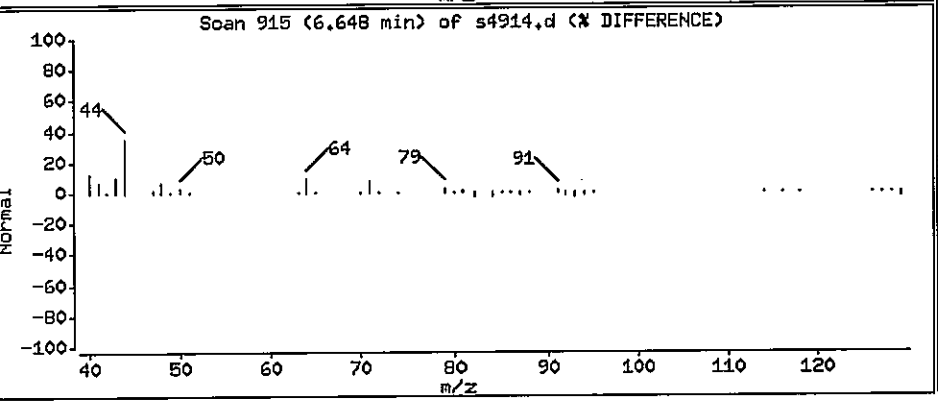
54 Bromodichloromethane

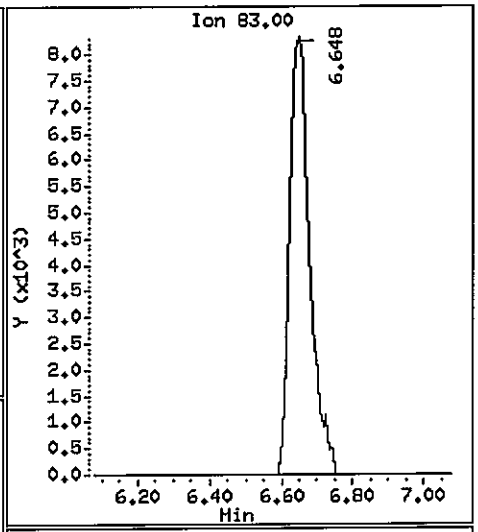
Concentration: 1.77 ug/L

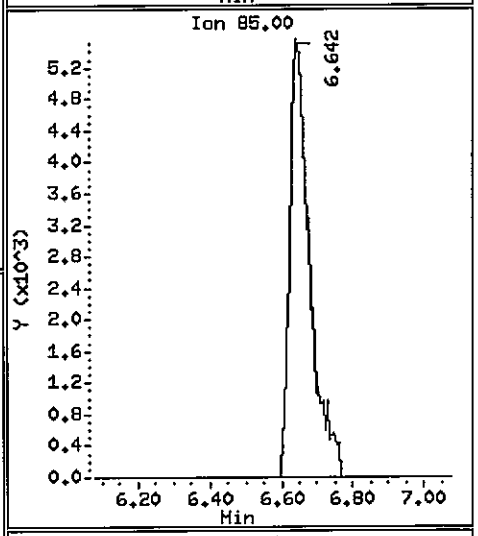


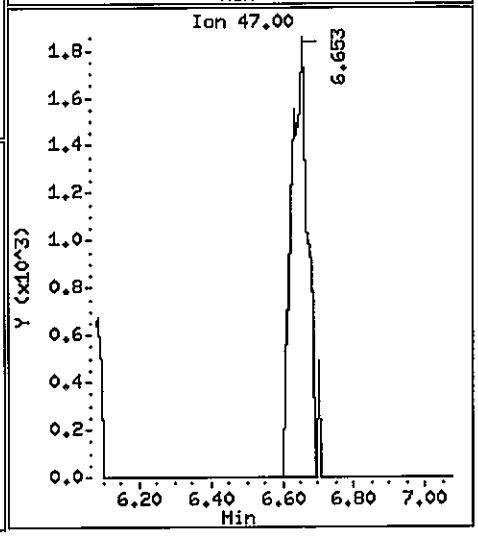












Gulf Coast Analytical Laboratories, Inc.

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nj Date : 09-NOV-2003 13:37
perator : RSP Inst ID: msv1.i
mp Info : 20311062422*086-TB1-W-1010-02
isc Info : MSV~3964~*1*RSP
omment :
ethod : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
eth Date : 09-Nov-2003 11:03 sab Quant Type: ISTD
al Date : 05-NOV-2003 16:58 Cal File: s4804.d
ls bottle: 9
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration 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	

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
12 Acetone	43	3.896	3.914	(0.653)	125769	57.2030	57.2	
36 Dibromofluoromethane	111	5.507	5.536	(0.923)	758130	53.8099	53.8	522
43 1,2-Dichloroethane-d4	67	5.770	5.794	(0.967)	305682	50.3563	50.4	
47 FLUOROBENZENE	96	5.965	6.000	(1.000)	1712479	50.0000		
59 Toluene-d8	98	7.031	7.049	(0.871)	1653747	51.6840	51.7	
70 CHLOROBENZENE-d5	82	8.074	8.092	(1.000)	905989	50.0000		
79 Bromofluorobenzene	174	9.043	9.089	(1.120)	682210	57.7281	57.7	(R)
96 1,4-DICHLOROBENZENE-D4	152	10.189	10.224	(1.000)	827601	50.0000		

QC Flag Legend

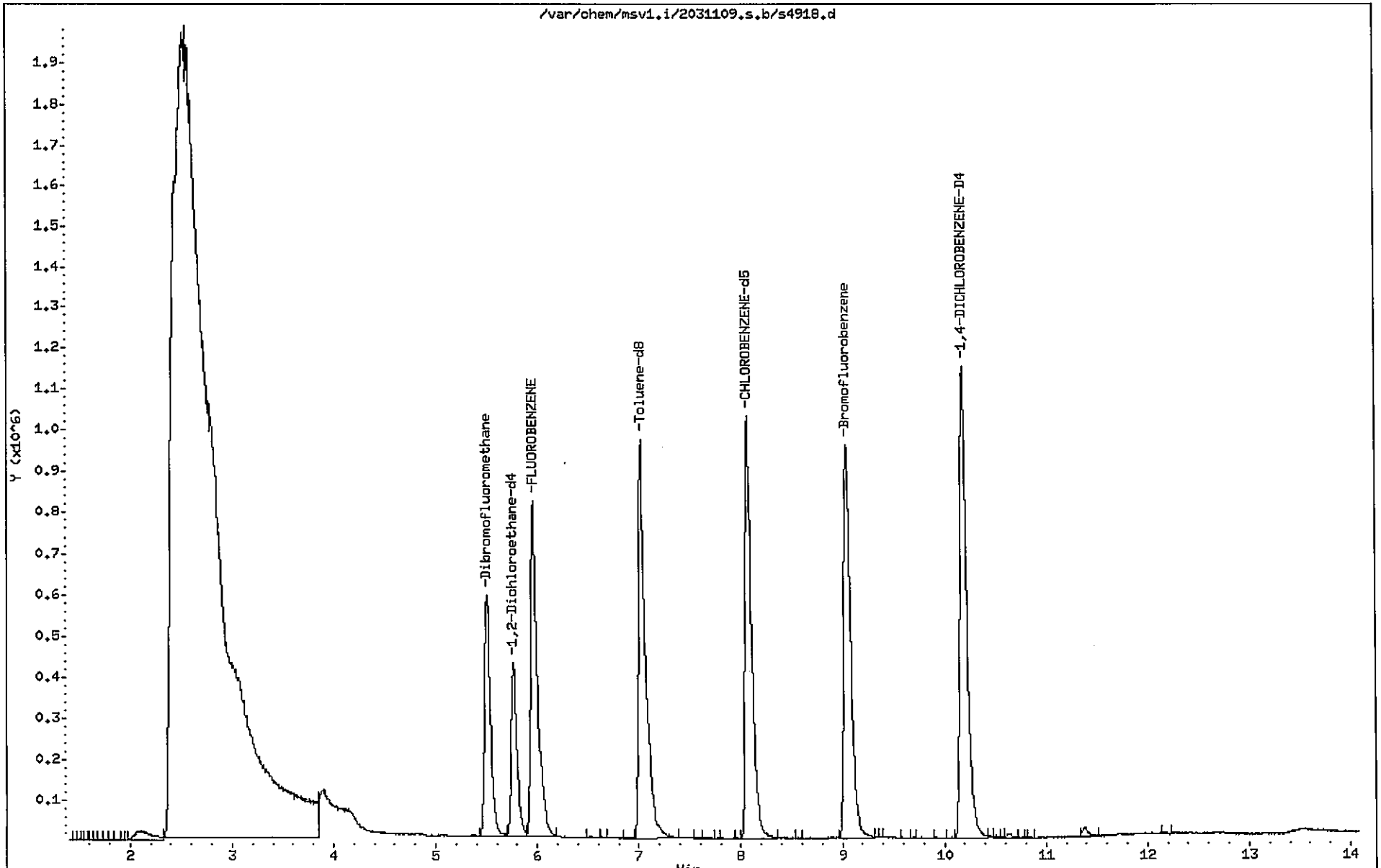
R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/msv1.i/2031109.s.b/s4918.d
Date : 09-NOV-2003 13:37
Client ID: 086-TB1-W-1010-02
Sample Info: 20311062422x086-TB1-W-1010-02
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000159



Data File: /var/chem/msv1.i/2031109.s.b/s4918.d

Date : 09-NOV-2003 13:37

Client ID: 086-TB1-W-1010-02

Instrument: msv1.i

Sample Info: 20311062422X086-TB1-W-1010-02

Purge Volume: 5.0

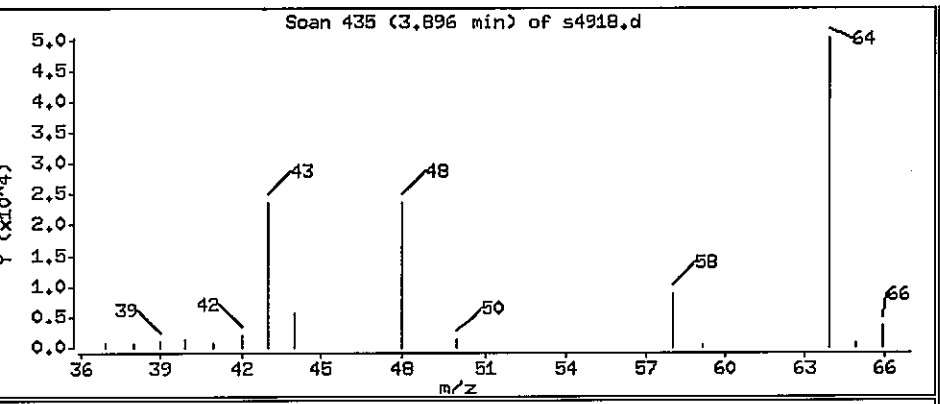
Operator: RSP

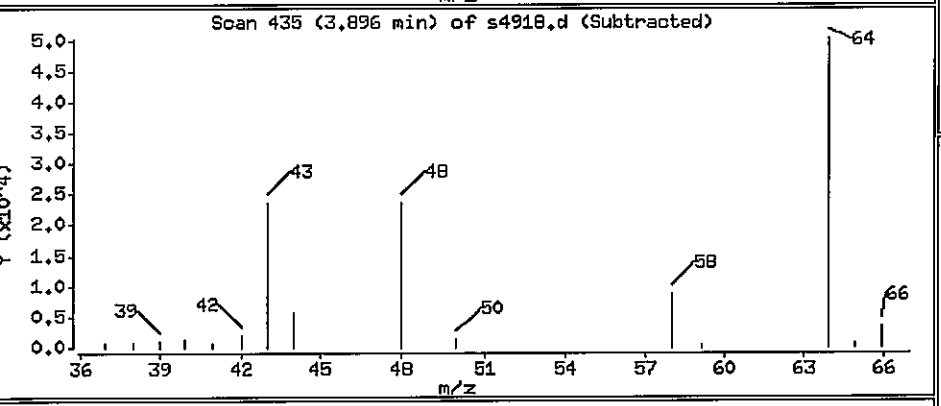
Column phase: DB-624-30M

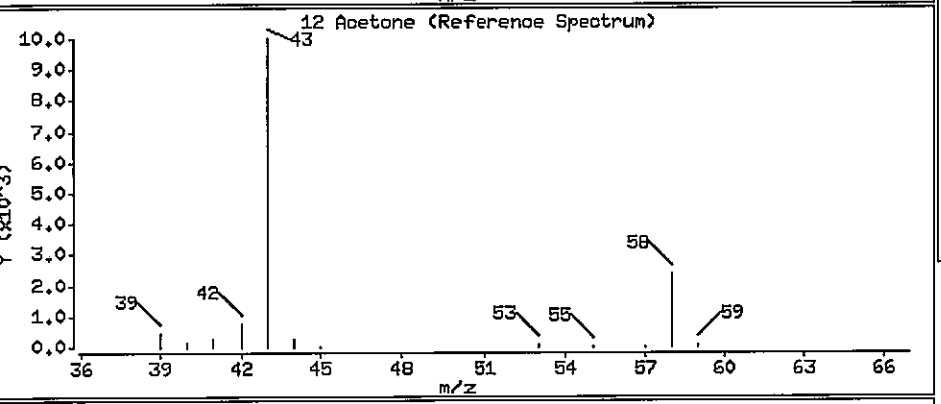
Column diameter: 0.53

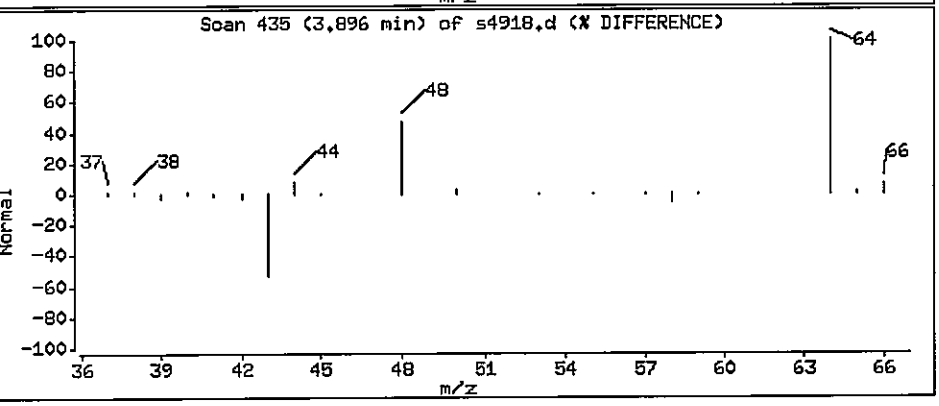
12 Acetone

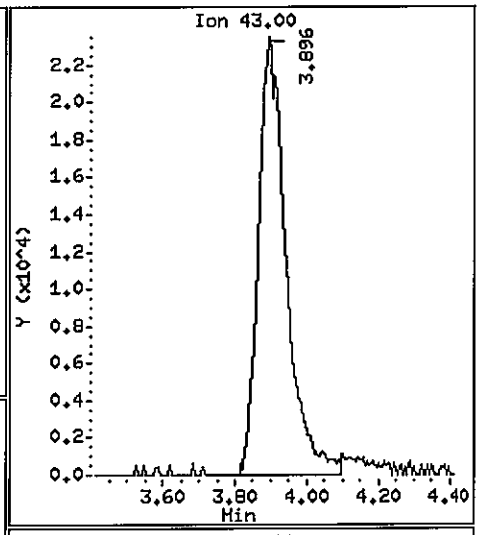
Concentration: 57.2 ug/L

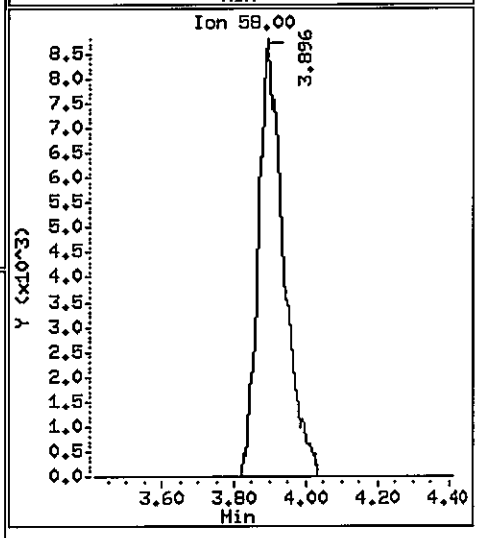












Data File: /var/chem/msv1.i/2031109.s.b/s4919.d
Report Date: 09-Nov-2003 14:24

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4919.d
Lab Smp Id: 20311062423 Client Smp ID: 086-TB2-W-1010-02
Inj Date : 09-NOV-2003 14:01
Operator : RSP Inst ID: msv1.i
Smp Info : 20311062423*086-TB2-W-1010-02
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 09-Nov-2003 11:03 sab Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.d
Als bottle: 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	

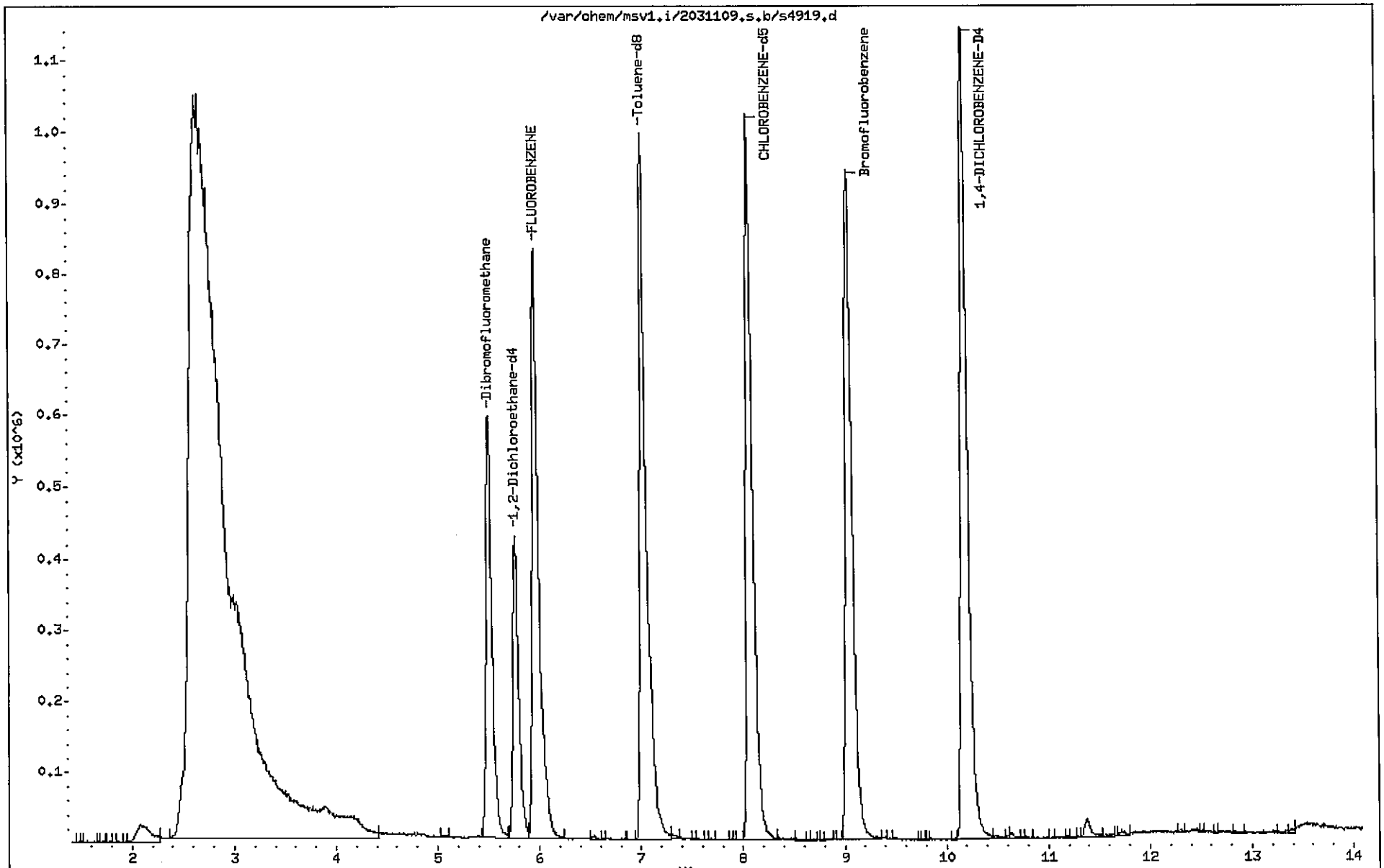
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
12 Acetone	43	3.902	3.914	(0.653)	24806	11.1942	11.2	
36 Dibromofluoromethane	111	5.506	5.536	(0.922)	763116	53.7404	53.7	522
43 1,2-Dichloroethane-d4	67	5.764	5.794	(0.965)	306106	50.0320	50.0	
47 FLUOROBENZENE	96	5.971	6.000	(1.000)	1725970	50.0000		
59 Toluene-d8	98	7.019	7.049	(0.871)	1666487	51.3989	51.4	
70 CHLOROBENZENE-d5	82	8.062	8.092	(1.000)	918032	50.0000		
79 Bromofluorobenzene	174	9.054	9.089	(1.123)	679239	56.7227	56.7	
96 1,4-DICHLOROBENZENE-D4	152	10.194	10.224	(1.000)	833691	50.0000		

000162

Data File: /var/chem/msv1.i/2031109.s.b/s4919.d
Date : 09-NOV-2003 14:01
Client ID: 086-TB2-W-1010-02
Sample Info: 20311062423M086-TB2-W-1010-02
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i
Operator: RSP
Column diameter: 0.53



Data File: /var/chem/msv1.i/2031109.s.b/s4919.d

Date : 09-NOV-2003 14:01

Client ID: 086-TB2-W-1010-02

Instrument: msv1.i

Sample Info: 20311062423W086-TB2-W-1010-02

Purge Volume: 5.0

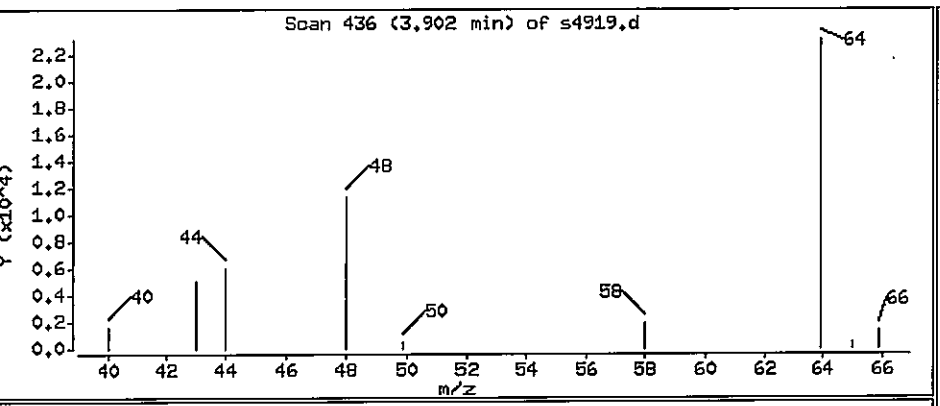
Operator: RSP

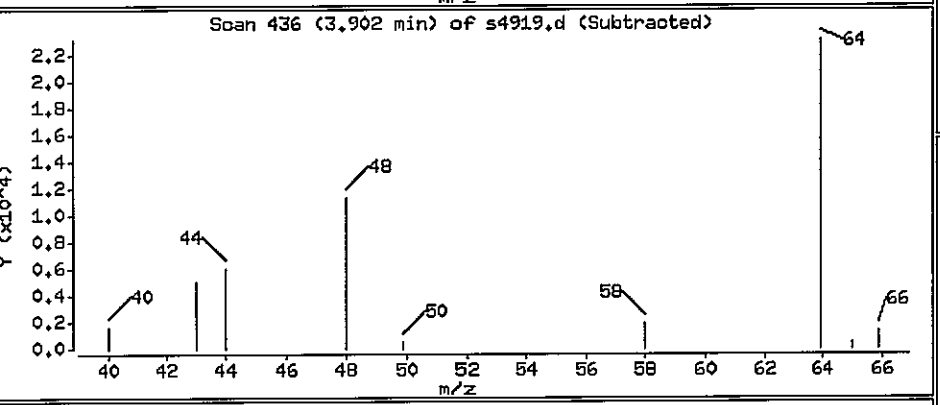
Column phase: DB-624-30M

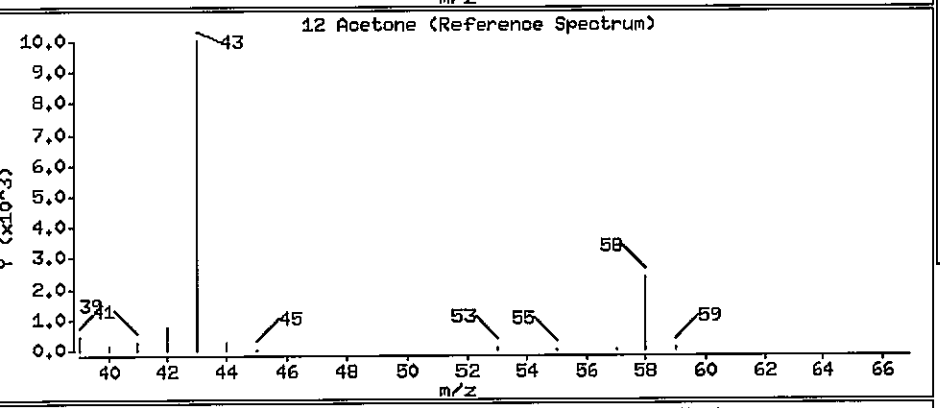
Column diameter: 0.53

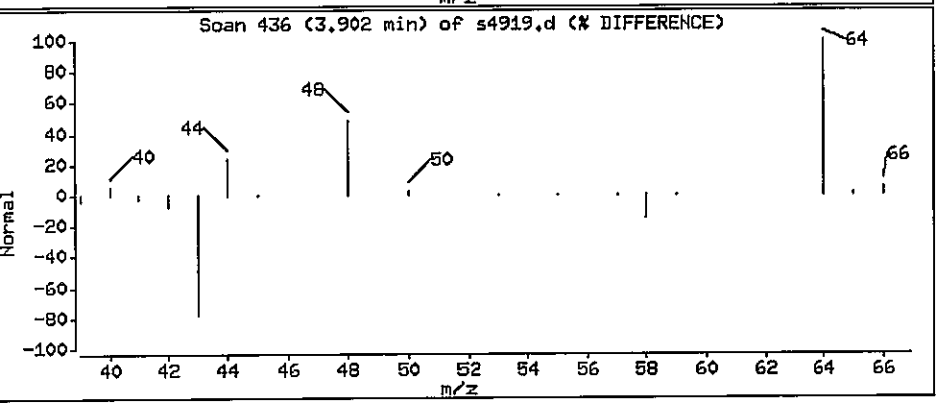
12 Acetone

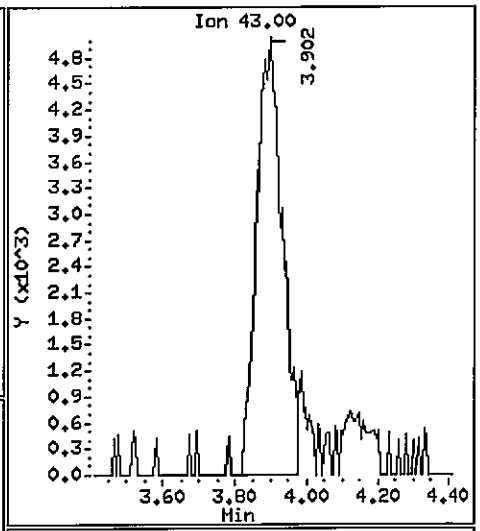
Concentration: 11.2 ug/L

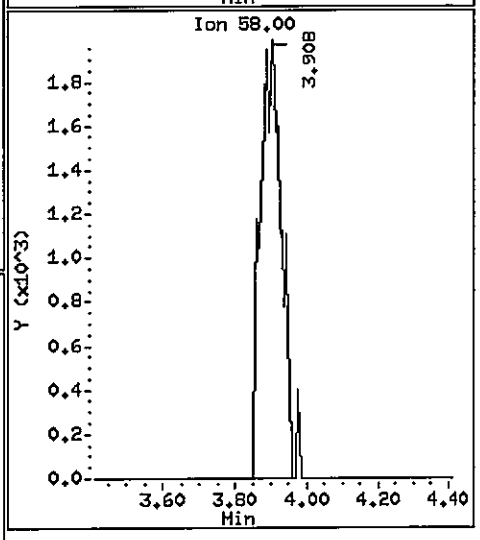












Data File: /var/chem/msv0.i/2031107.s.b/s6799.d

Date : 07-NOV-2003 08:08

Client ID: V0BFB

Instrument: msv0.i

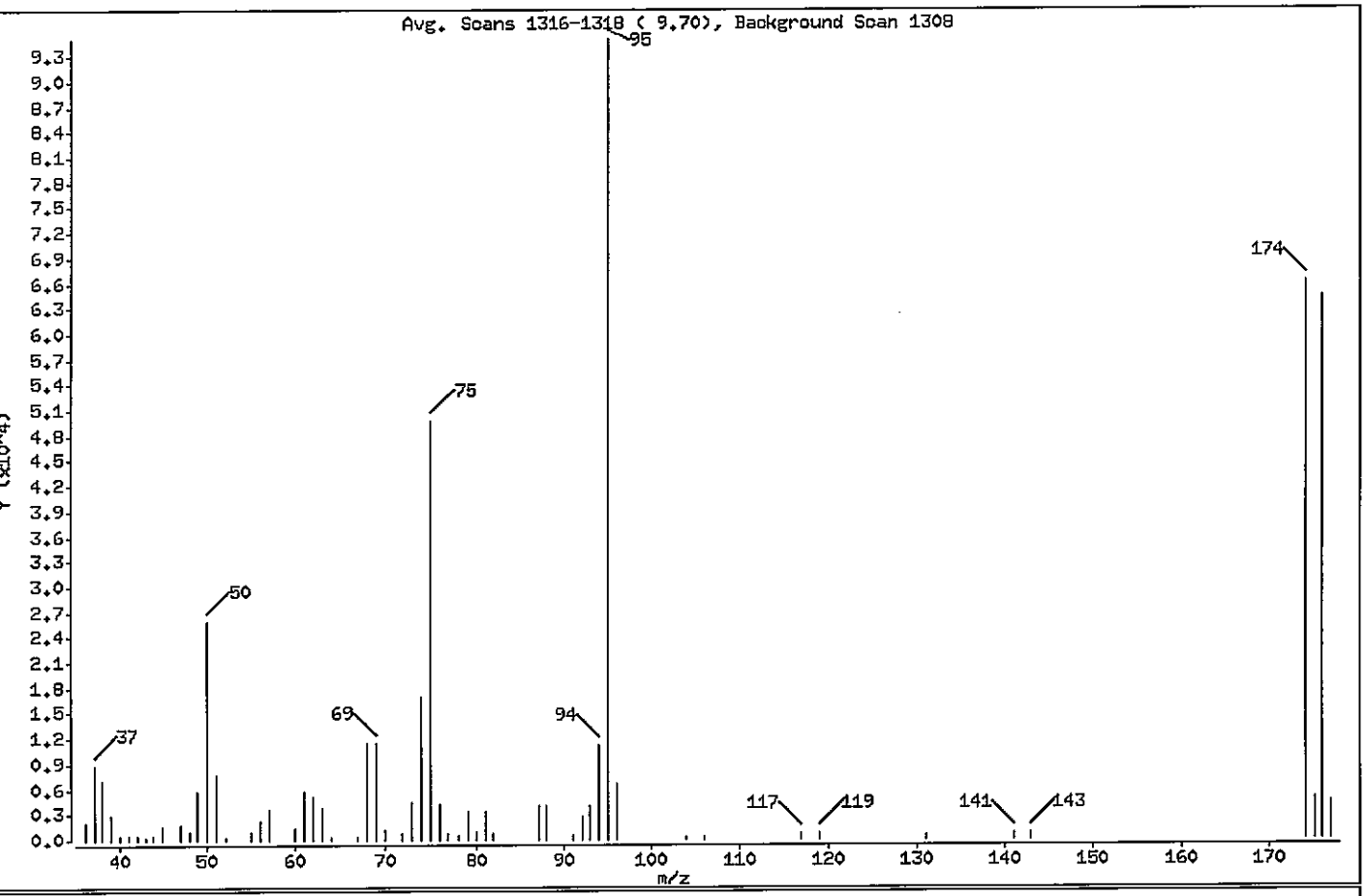
Sample Info: 1000HV0BFB01

Operator: KRV

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	27.22
75	30.00 - 60.00% of mass 95	52.23
96	5.00 - 9.00% of mass 95	6.89
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	69.62
175	5.00 - 9.00% of mass 174	5.14 (7.38)
176	95.00 - 101.00% of mass 174	67.63 (97.14)
177	5.00 - 9.00% of mass 176	4.56 (6.74)

Data File: /var/chem/msv0.i/2031107.s.b/s6799.d

Date : 07-NOV-2003 08:08

Client ID: V0BFB

Instrument: msv0.i

Sample Info: 1000MV0BFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6799.d

Spectrum: Avg. Scans 1316-1318 (9.70), Background Scan 1308

Location of Maximum: 95.00

Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1894	52.00	325	74.00	16848	95.00	95024
37.00	8694	55.00	815	75.00	49632	96.00	6548
38.00	7093	56.00	2157	76.00	4246	104.00	163
39.00	2799	57.00	3508	77.00	704	106.00	133
40.00	536	60.00	1273	78.00	511	117.00	593
41.00	495	61.00	5641	79.00	3219	119.00	567
42.00	331	62.00	5109	80.00	878	131.00	390
43.00	143	63.00	3800	81.00	3312	141.00	663
44.00	499	64.00	152	82.00	632	143.00	711
45.00	1529	67.00	179	87.00	3863	174.00	66160
47.00	1844	68.00	11325	88.00	3898	175.00	4881
48.00	888	69.00	11411	91.00	460	176.00	64264
49.00	5778	70.00	1082	92.00	2607	177.00	4329
50.00	25864	72.00	604	93.00	3849		
51.00	7618	73.00	4436	94.00	11210		

Data File: /var/chem/msv0.i/2031107.s.b/s6799.d

Date : 07-NOV-2003 08:08

Client ID: V0BFB

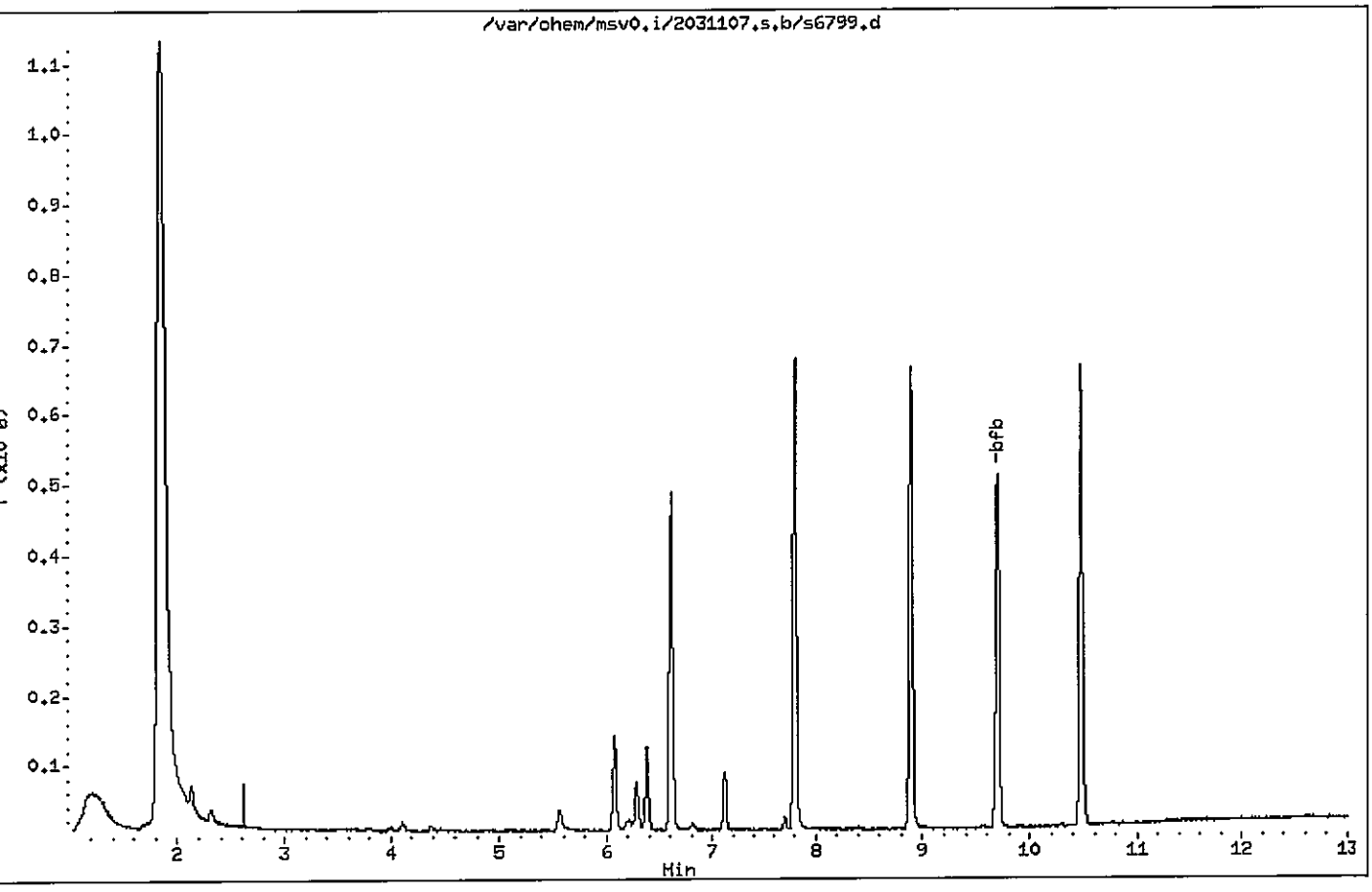
Instrument: msv0.i

Sample Info: 1000MV0BFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv0.i/2031107.s.b/s6802.d
ab Smp Id: 1201 Client Smp ID: V0STD005
nj Date : 07-NOV-2003 09:40
perator : KRV Inst ID: msv0.i
mp Info : 1201*V0STD005*5-5-5
isc Info : MSV~3956~*1*KRV
omment :
ethod : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
eth Date : 10-Nov-2003 16:22 sab Quant Type: ISTD
al Date : 07-NOV-2003 09:40 Cal File: s6802.d
ls bottle: 4 Calibration Sample, Level: 1
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration 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)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.118	2.118	(0.319)	17861	5.00000	4.96	645(a)
2 Chloromethane ++	50	2.355	2.355	(0.355)	27267	5.00000	5.41	5968
3 Vinyl Chloride +	62	2.487	2.487	(0.374)	23267	5.00000	4.94	4139
4 Bromomethane	94	2.876	2.876	(0.433)	4676	5.00000	1.98	6880
6 Trichlorofluoromethane	101	3.290	3.290	(0.495)	20035	5.00000	4.80	7326
7 Acrolein	56	3.916	3.916	(0.590)	14834	25.0000	26.6	3544
9 1,1,2Trichlotrifluoroethane	101	3.916	3.916	(0.590)	16640	5.00000	5.06	5109
8 1,1-Dichloroethene +	96	3.949	3.949	(0.595)	14644	5.00000	5.11	8377
11 Methyl Iodide	142	4.146	4.146	(0.624)	9836	5.00000	3.73	8703
12 Carbon Disulfide	76	4.186	4.186	(0.630)	65281	5.00000	5.25	8236
106 Methyl Acetate	43	4.403	4.403	(0.663)	18891	5.00000	6.08	2235(M)
13 Methylene Chloride	49	4.534	4.534	(0.683)	46240	5.00000	3.44	9207
14 Acrylonitrile	53	4.844	4.844	(0.729)	34877	25.0000	25.9	6875

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
15 trans-1,2-Dichloroethene	61	4.758	4.758	(0.716)	26587	5.00000	5.10	8785
16 MTBE	73	4.739	4.739	(0.714)	48194	5.00000	5.11	4150
17 Hexane	57	4.943	4.943	(0.744)	34103	5.00000	5.20	4996
19 Vinyl Acetate	43	4.943	4.943	(0.744)	29581	5.00000	6.01	
18 1,1-Dichloroethane ++	63	5.199	5.199	(0.783)	36523	5.00000	4.93	6071
22 2-Butanone	43	5.746	5.746	(0.865)	32943	5.00000	9.12	(M)
21 cis-1,2-Dichloroethene	61	5.719	5.719	(0.861)	32597	5.00000	4.84	8180
20 2,2-Dichloropropane	77	5.700	5.700	(0.858)	25510	5.00000	4.87	8363
23 Bromochloromethane	128	5.930	5.930	(0.893)	7634	5.00000	4.73	8745
24 Chloroform +	83	5.976	5.976	(0.900)	37630	5.00000	5.72	8944
25 Dibromofluoromethane	111	6.114	6.114	(0.921)	16637	5.00000	4.79	8826
26 1,1,1-Trichloroethane	97	6.114	6.114	(0.921)	24339	5.00000	4.75	8682
105 Cyclohexane	56	6.108	6.108	(0.920)	41524	5.00000	4.93	8842(a)
27 1,1-Dichloropropene	75	6.246	6.246	(0.941)	24111	5.00000	4.87	6640
28 Carbon Tetrachloride	117	6.220	6.220	(0.937)	18920	5.00000	4.85	8483
32 1,2-Dichloroethane-d4	67	6.417	6.417	(0.966)	9527	5.00000	4.90	6918
33 Benzene	78	6.411	6.411	(0.965)	72362	5.00000	4.88	8946
34 1,2-Dichloroethane	62	6.476	6.476	(0.975)	25103	5.00000	4.97	6145
35 FLUOROBENZENE	96	6.641	6.641	(1.000)	675655	50.0000		9427
36 Trichloroethene	130	6.911	6.911	(1.041)	16343	5.00000	4.85	9103
40 Methyl cyclohexane	83	7.016	7.016	(1.056)	31149	5.00000	4.88	5657(a)
37 1,2-Dichloropropane +	63	7.122	7.122	(1.072)	21086	5.00000	4.94	7931
31 Total 1,2-Dichloroethene	61				59184	10.0000	9.90	0
38 Dibromomethane	93	7.220	7.220	(1.087)	9771	5.00000	4.90	7708
39 Bromodichloromethane	83	7.312	7.312	(1.101)	21467	5.00000	4.82	8848
41 2-Chloroethyl vinyl ether	63	7.510	7.510	(1.131)	8017	5.00000	4.79	6550
42 1-Bromo-2-chloroethane	144	7.576	7.576	(1.141)	1965	5.00000	4.41	1283(a)
44 cis-1,3-Dichloropropene	75	7.642	7.642	(1.151)	30379	5.00000	4.97	
45 4-methyl-2-pentanone	43	7.727	7.727	(1.164)	25806	5.00000	5.39	
46 Toluene-d8	98	7.813	7.813	(0.879)	55345	5.00000	4.78	8740
47 Toluene +	91	7.865	7.865	(0.884)	74642	5.00000	4.91	9308
51 trans-1,3-Dichloropropene	75	8.050	8.050	(0.905)	26825	5.00000	4.76	
52 1,1,2-Trichloroethane	97	8.195	8.195	(0.922)	13190	5.00000	4.77	8339
53 1,3-Dichloropropane	76	8.333	8.333	(0.937)	26136	5.00000	4.73	8234
54 Tetrachloroethene	164	8.254	8.254	(0.928)	11938	5.00000	4.81	5681
55 2-Hexanone	43	8.333	8.333	(0.937)	23346	5.00000	5.86	4777
56 Dibromochloromethane	129	8.484	8.484	(0.954)	14384	5.00000	4.66	8532
57 1,2-Dibromoethane(EDB)	107	8.596	8.596	(0.967)	13621	5.00000	4.90	4850
58 Chlorobenzene-d5	82	8.892	8.892	(1.000)	268651	50.0000		9194
59 Chlorobenzene ++	112	8.919	8.919	(1.003)	45133	5.00000	4.74	6773
60 1,1,1,2-Tetrachloroethane	133	8.965	8.965	(1.008)	13428	5.00000	4.69	8703
61 Ethylbenzene +	106	8.945	8.945	(1.006)	24143	5.00000	4.79	9008
62 p,m-Xylene	106	9.024	9.024	(1.015)	59876	10.0000	9.27	9323
63 o-Xylene	106	9.314	9.314	(1.047)	28432	5.00000	4.62	
64 Styrene	104	9.327	9.327	(1.049)	51627	5.00000	4.62	8584
65 Bromoform ++	173	9.505	9.505	(1.069)	8069	5.00000	4.35	7472
66 Isopropylbenzene	105	9.544	9.544	(1.073)	71917	5.00000	4.60	9136

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
67 Bromofluorobenzene	174	9.702	9.702	(1.091)	16035	5.00000	4.80	8073
68 1,1,2,2-Tetrachloroethane++	83	9.781	9.781	(0.933)	16702	5.00000	4.97	8601
69 trans-1,4-Dichloro-2-Butene	53	9.933	9.933	(0.948)	2698	5.00000	4.94	4510(a)
70 1,2,3-Trichloropropane	75	9.834	9.834	(0.938)	22254	5.00000	4.95	6640
71 Bromobenzene	77	9.821	9.821	(0.937)	43307	5.00000	5.09	6522
72 n-Propylbenzene	91	9.821	9.821	(0.937)	96623	5.00000	5.22	7186
73 2-Chlorotoluene	91	9.926	9.926	(0.947)	62595	5.00000	5.04	8674(H)
74 1,3,5-Trimethylbenzene	105	9.933	9.933	(0.948)	60744	5.00000	4.75	
75 4-Chlorotoluene	91	9.998	9.998	(0.954)	60850	5.00000	5.06	8458
76 tert-butylbenzene	91	10.150	10.150	(0.969)	44023	5.00000	4.97	9118
77 1,2,4-Trimethylbenzene	105	10.189	10.189	(0.972)	56543	5.00000	4.72	
78 sec-Butylbenzene	105	10.295	10.295	(0.982)	80077	5.00000	4.88	
79 p-Isopropyltoluene	119	10.374	10.374	(0.990)	61342	5.00000	4.95	8849
80 1,3-Dichlorobenzene	146	10.433	10.433	(0.996)	30075	5.00000	5.03	
81 1,4-DICHLOROBENZENE-D4	152	10.479	10.479	(1.000)	191931	50.0000		9240
82 1,4-Dichlorobenzene	146	10.492	10.492	(1.001)	28951	5.00000	4.81	
83 n-Butylbenzene	91	10.650	10.650	(1.016)	54897	5.00000	4.74	9303
85 1,2-Dichlorobenzene	146	10.762	10.762	(1.027)	27075	5.00000	5.03	
86 1,2-Dibromo-3-Chloropropane	157	11.302	11.302	(1.079)	2250	5.00000	4.32	4701
84 TOTAL XYLENE	106				88308	15.0000	13.9	0
87 1,2,4-Trichlorobenzene	180	11.875	11.875	(1.133)	15222	5.00000	4.65	
88 Hexachlorobutadiene	225	11.921	11.921	(1.138)	9651	5.00000	4.61	9360
89 Napthalene	128	12.085	12.085	(1.153)	24096	5.00000	4.31	8035
90 1,2,3-Trichlorobenzene	180	12.263	12.263	(1.170)	13268	5.00000	4.40	

QC Flag Legend

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

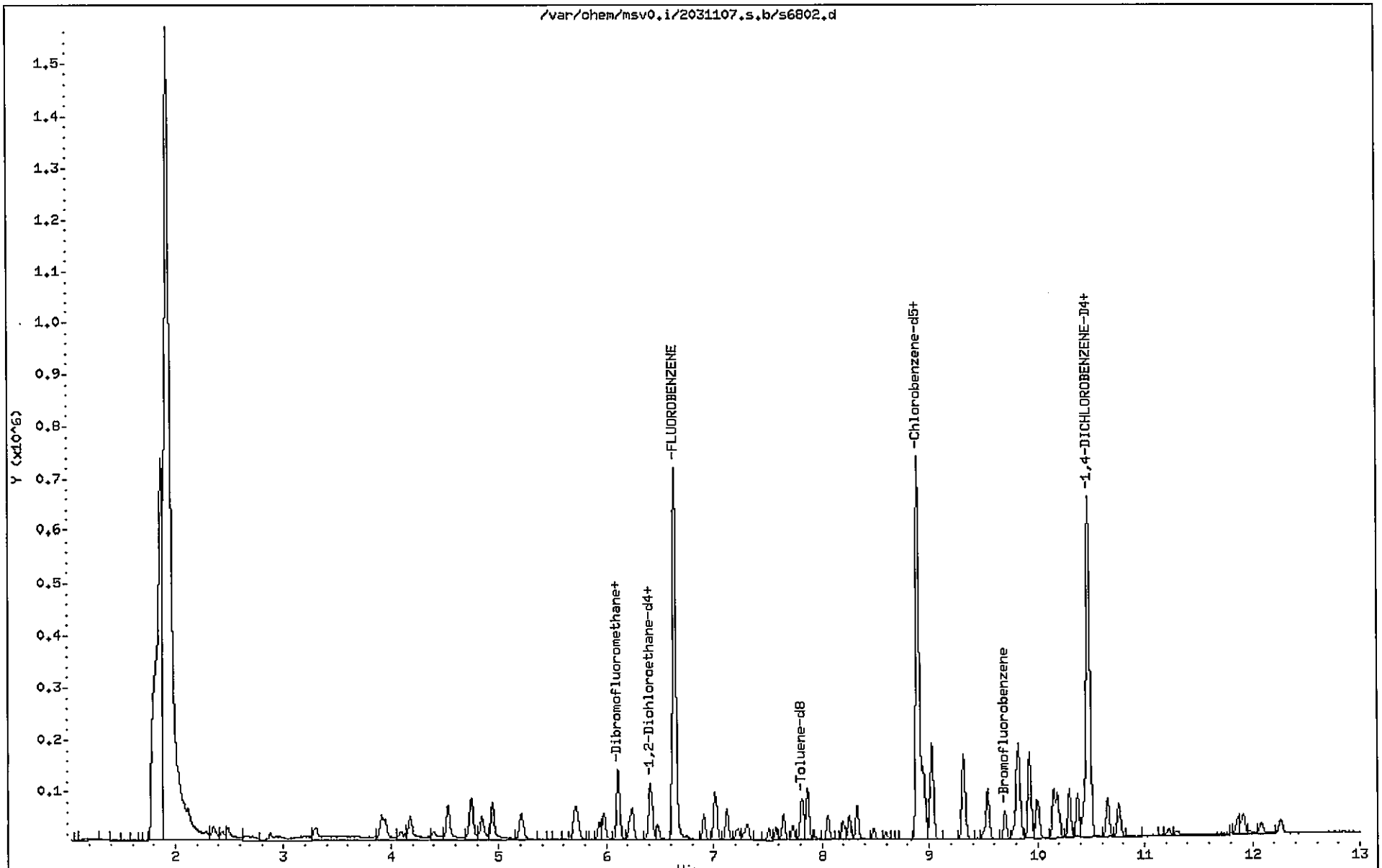
Data File: /var/chem/msv0.i/2031107.s.b/s6802.d
Date : 07-NOV-2003 09:40
Client ID: VOSTD005
Sample Info: 1201MVOSTD005M5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000170

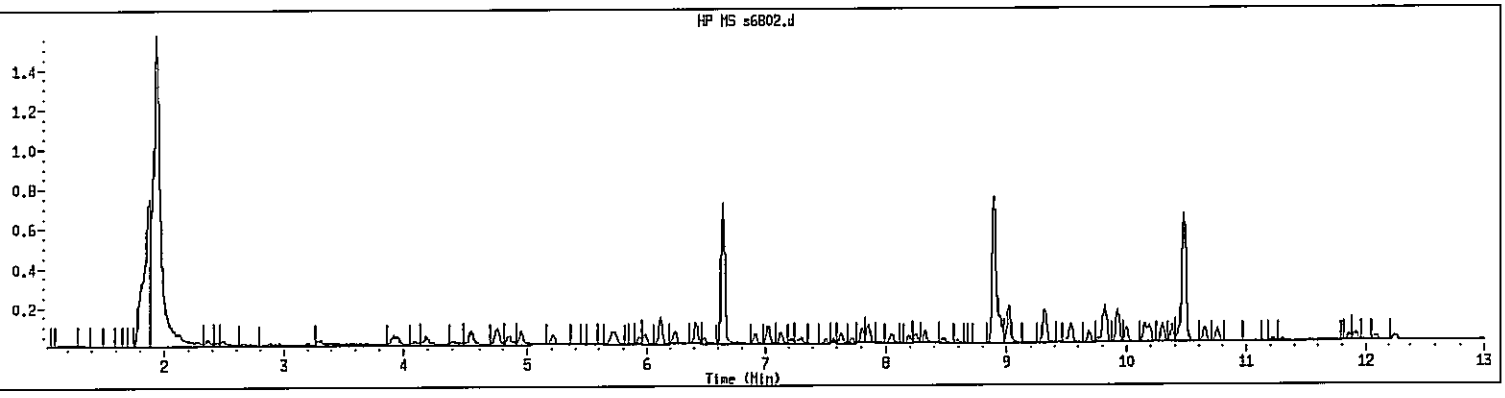


Data file : /var/chem/msv0.i/2031107.s.b/s6802.d
Report Date: 11/10/2003 16:22

MANUAL INTEGRATION GRAPHIC REPORT

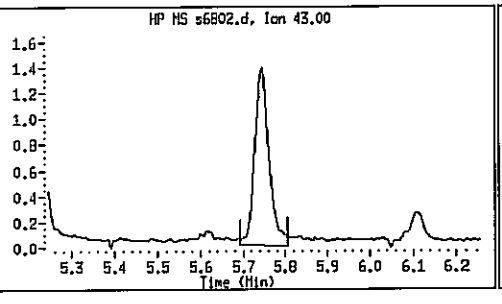
Lab ID : 1201
Injection Date: 07-NOV-2003 09:40
Operator : KRV
Sample Info : 1201*V0STD005*5-5-5
Misc Info : MSV~3956~*1*KRV
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

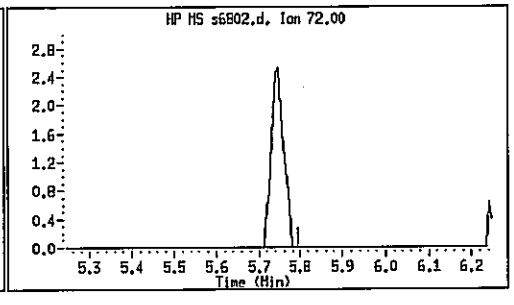
SampleType : CALIB_1
Instrument : msv0.i
Compound Sublist: 8260b



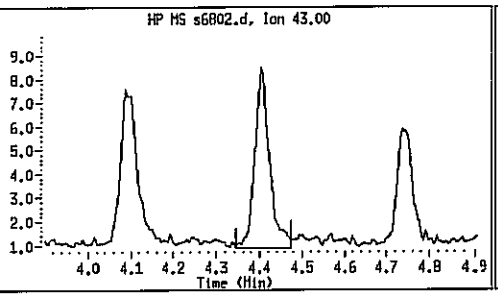
CONCENTRATIONS

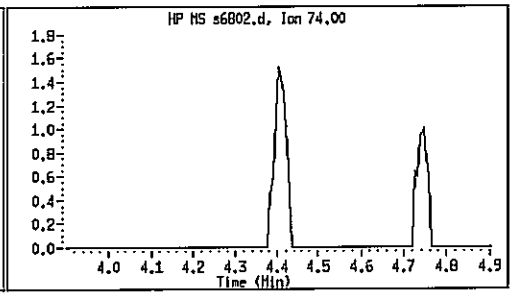
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
22 2-Butanone			CAS#: 78-93-3				
.746	0.865	43	32943	9	9	80-120	100
.746	0.865	72	5158			13- 19	16





RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
106 Methyl Acetate				CAS#: 79-20-9			
.403	0.663	43	18891	6	6	80-120	100
.403	0.663	74	1517			16- 24	8





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107.s.b/s6803.d
Lab Smp Id: 1202 Client Smp ID: V0STD020
Inj Date : 07-NOV-2003 10:02
Operator : KRV Inst ID: msv0.i
Smp Info : 1202*V0STD020*5-5-5
Misc Info : MSV~3956~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:22 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 10:02 Cal File: s6803.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/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	2.129	2.129	(0.320)	75104	20.0000	20.2	634
2 Chloromethane ++	50	2.366	2.366	(0.356)	103587	20.0000	19.9	6237
3 Vinyl Chloride +	62	2.491	2.491	(0.375)	98582	20.0000	20.3	4506
4 Bromomethane	94	2.919	2.919	(0.439)	58550	20.0000	23.5	7054
5 Chloroethane	64	3.057	3.057	(0.460)	58769	20.0000	21.2	4019
6 Trichlorofluoromethane	101	3.340	3.340	(0.503)	88984	20.0000	20.7	8063
7 Acrolein	56	3.920	3.920	(0.590)	55902	100.000	97.3	3544
9 1,1,2Trichlotrifluoroethane	101	3.933	3.933	(0.592)	69797	20.0000	20.6	4931
8 1,1-Dichloroethene +	96	3.972	3.972	(0.598)	59895	20.0000	20.3	8705
10 Acetone	43	4.091	4.091	(0.616)	45150	20.0000	17.6	6493
11 Methyl Iodide	142	4.163	4.163	(0.626)	43416	20.0000	16.0	9250
12 Carbon Disulfide	76	4.203	4.203	(0.632)	267745	20.0000	20.9	8825
106 Methyl Acetate	43	4.407	4.407	(0.663)	57566	20.0000	18.0	1845(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.545	4.545	(0.684)	130231	20.0000	18.8	9478
14 Acrylonitrile	53	4.848	4.848	(0.730)	131416	100.000	94.5	6875
15 trans-1,2-Dichloroethene	61	4.769	4.769	(0.718)	108610	20.0000	20.2	8849
16 MTBE	73	4.742	4.742	(0.714)	191979	20.0000	19.7	4221
17 Hexane	57	4.960	4.960	(0.746)	137100	20.0000	20.3	5132
19 Vinyl Acetate	43	4.953	4.953	(0.745)	100188	20.0000	19.7	
18 1,1-Dichloroethane ++	63	5.210	5.210	(0.784)	153594	20.0000	20.1	6264
22 2-Butanone	43	5.743	5.743	(0.864)	51631	20.0000	16.1	(M)
21 cis-1,2-Dichloroethene	61	5.730	5.730	(0.862)	139098	20.0000	20.0	8240
20 2,2-Dichloropropane	77	5.704	5.704	(0.858)	109980	20.0000	20.4	8700
23 Bromochloromethane	128	5.934	5.934	(0.893)	32913	20.0000	19.8	8920
24 Chloroform +	83	5.980	5.980	(0.900)	134612	20.0000	19.8	9333
25 Dibromofluoromethane	111	6.118	6.118	(0.921)	71256	20.0000	19.9	9216
26 1,1,1-Trichloroethane	97	6.118	6.118	(0.921)	108506	20.0000	20.6	8782
105 Cyclohexane	56	6.112	6.112	(0.920)	174033	20.0000	20.0	9134
27 1,1-Dichloropropene	75	6.250	6.250	(0.941)	103152	20.0000	20.2	6762
28 Carbon Tetrachloride	117	6.224	6.224	(0.937)	80178	20.0000	20.0	8806
32 1,2-Dichloroethane-d4	67	6.421	6.421	(0.966)	38888	20.0000	19.4	6955
33 Benzene	78	6.414	6.414	(0.965)	302946	20.0000	19.8	8977
34 1,2-Dichloroethane	62	6.480	6.480	(0.975)	100610	20.0000	19.3	6411
35 FLUOROBENZENE	96	6.645	6.645	(1.000)	696526	50.0000		9402
36 Trichloroethene	130	6.915	6.915	(1.041)	69334	20.0000	20.0	9201
40 Methyl cyclohexane	83	7.020	7.020	(1.056)	130596	20.0000	19.9	5708
37 1,2-Dichloropropane +	63	7.125	7.125	(1.072)	86010	20.0000	19.6	8215
31 Total 1,2-Dichloroethene	61				247708	40.0000	40.2	0
38 Dibromomethane	93	7.224	7.224	(1.087)	39311	20.0000	19.1	8705
39 Bromodichloromethane	83	7.316	7.316	(1.101)	90363	20.0000	19.7	9007
41 2-Chloroethyl vinyl ether	63	7.514	7.514	(1.131)	30794	20.0000	17.9	6852
42 1-Bromo-2-chloroethane	144	7.580	7.580	(1.141)	8693	20.0000	18.9	1817
44 cis-1,3-Dichloropropene	75	7.646	7.646	(1.151)	122243	20.0000	19.4	
45 4-methyl-2-pentanone	43	7.731	7.731	(1.163)	91322	20.0000	18.5	
46 Toluene-d8	98	7.817	7.817	(0.879)	232242	20.0000	20.1	8909
47 Toluene +	91	7.869	7.869	(0.885)	305303	20.0000	20.2	9250
51 trans-1,3-Dichloropropene	75	8.054	8.054	(0.905)	110786	20.0000	19.7	
52 1,1,2-Trichloroethane	97	8.198	8.198	(0.922)	53059	20.0000	19.3	8381
53 1,3-Dichloropropane	76	8.330	8.330	(0.936)	106548	20.0000	19.4	8563
54 Tetrachloroethene	164	8.258	8.258	(0.928)	49466	20.0000	20.0	5642
55 2-Hexanone	43	8.324	8.324	(0.936)	79721	20.0000	20.1	5380
56 Dibromochloromethane	129	8.488	8.488	(0.954)	59175	20.0000	19.3	8973
57 1,2-Dibromoethane(EDB)	107	8.600	8.600	(0.967)	53617	20.0000	19.3	5533
58 Chlorobenzene-d5	82	8.896	8.896	(1.000)	267744	50.0000		9177
59 Chlorobenzene ++	112	8.916	8.916	(1.002)	189876	20.0000	20.0	8149
60 1,1,1,2-Tetrachloroethane	133	8.969	8.969	(1.008)	55790	20.0000	19.5	8914
61 Ethylbenzene +	106	8.949	8.949	(1.006)	97568	20.0000	19.4	9299
62 p,m-Xylene	106	9.028	9.028	(1.015)	261756	40.0000	40.6	9412
63 o-Xylene	106	9.311	9.311	(1.047)	121217	20.0000	19.8	
64 Styrene	104	9.324	9.324	(1.048)	217413	20.0000	19.5	8564

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.502	9.502	(1.068)	35687	20.0000	19.3	8303
66 Isopropylbenzene	105	9.541	9.541	(1.073)	312896	20.0000	20.1	9244
67 Bromofluorobenzene	174	9.699	9.699	(1.090)	66253	20.0000	19.9	8277
68 1,1,2,2-Tetrachloroethane++	83	9.778	9.778	(0.934)	66564	20.0000	19.4	8958
69 trans-1,4-Dichloro-2-Butene	53	9.930	9.930	(0.948)	12101	20.0000	21.7	4610
70 1,2,3-Trichloropropane	75	9.831	9.831	(0.939)	91248	20.0000	19.9	6514
71 Bromobenzene	77	9.818	9.818	(0.938)	173102	20.0000	20.0	6768
72 n-Propylbenzene	91	9.818	9.818	(0.938)	412131	20.0000	21.8	7426
73 2-Chlorotoluene	91	9.923	9.923	(0.948)	258900	20.0000	20.5	8856(H)
74 1,3,5-Trimethylbenzene	105	9.923	9.923	(0.948)	264126	20.0000	20.3	
75 4-Chlorotoluene	91	9.996	9.996	(0.955)	239114	20.0000	19.5	8620
76 tert-butylbenzene	91	10.147	10.147	(0.969)	189134	20.0000	21.0	9055
77 1,2,4-Trimethylbenzene	105	10.187	10.187	(0.973)	244642	20.0000	20.1	
78 sec-Butylbenzene	105	10.292	10.292	(0.983)	337072	20.0000	20.2	
79 p-Isopropyltoluene	119	10.371	10.371	(0.991)	250401	20.0000	19.8	8944
80 1,3-Dichlorobenzene	146	10.430	10.430	(0.996)	116528	20.0000	19.1	
81 1,4-DICHLOROBENZENE-D4	152	10.470	10.470	(1.000)	195550	50.0000		8967
82 1,4-Dichlorobenzene	146	10.489	10.489	(1.002)	127112	20.0000	20.7	
83 n-Butylbenzene	91	10.647	10.647	(1.017)	241909	20.0000	20.5	9328
85 1,2-Dichlorobenzene	146	10.753	10.753	(1.027)	110153	20.0000	20.1	
86 1,2-Dibromo-3-Chloropropane	157	11.299	11.299	(1.079)	10193	20.0000	19.2	5901
84 TOTAL XYLENE	106				382973	60.0000	60.4	0
87 1,2,4-Trichlorobenzene	180	11.865	11.865	(1.133)	66059	20.0000	19.8	
88 Hexachlorobutadiene	225	11.911	11.911	(1.138)	44807	20.0000	21.0	9415
89 Napthalene	128	12.076	12.076	(1.153)	106487	20.0000	18.7	8817
90 1,2,3-Trichlorobenzene	180	12.254	12.254	(1.170)	60128	20.0000	19.6	

QC Flag Legend

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

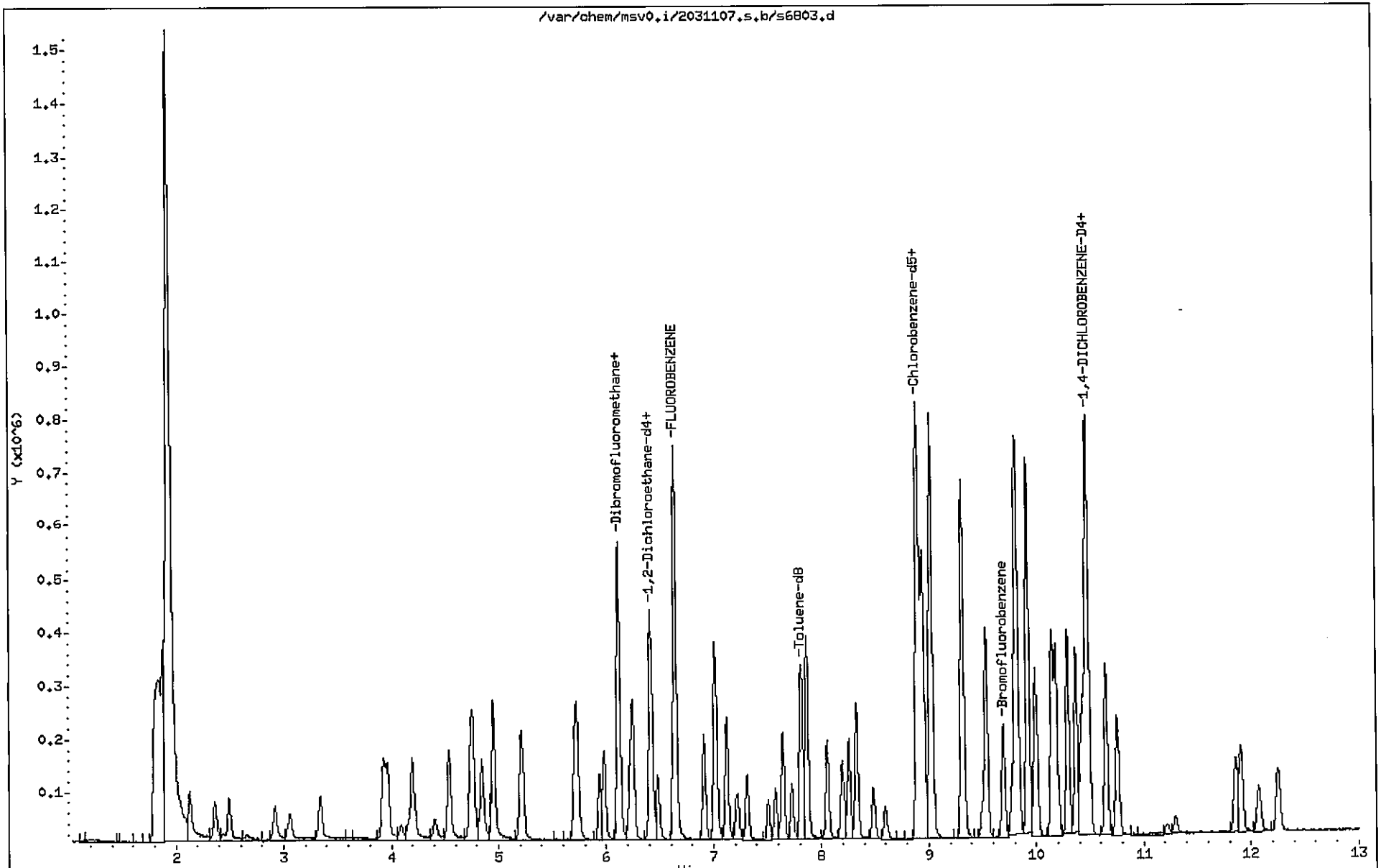
Data File: /var/chem/msv0.i/2031107.s.b/s6803.d
Date : 07-NOV-2003 10:02
Client ID: VOSTD020
Sample Info: 1202MVOSTD020M5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

0001176

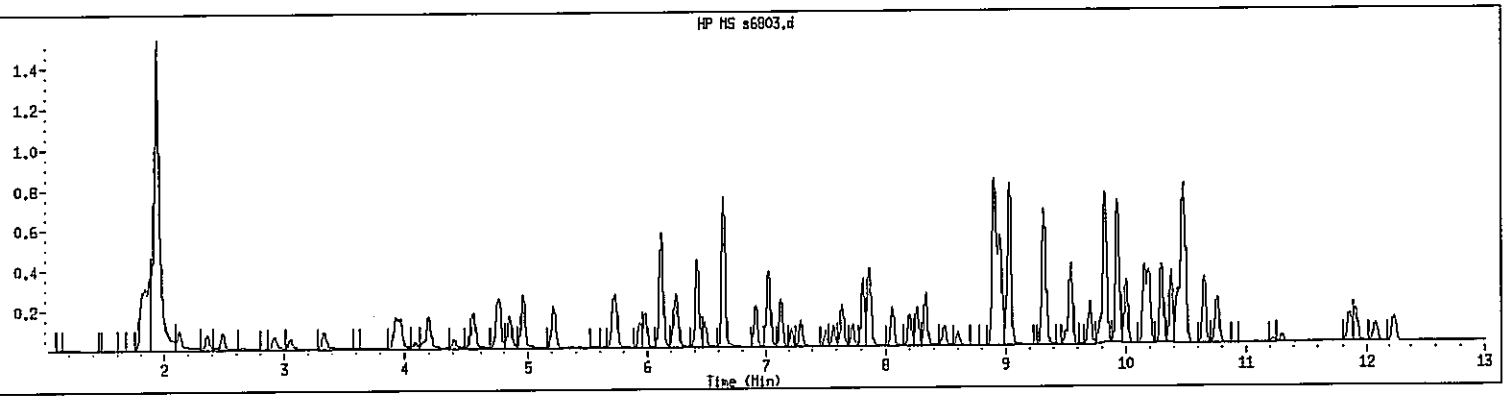


Data file : /var/chem/msv0.i/2031107.s.b/s6803.d
Report Date: 11/10/2003 16:22

MANUAL INTEGRATION GRAPHIC REPORT

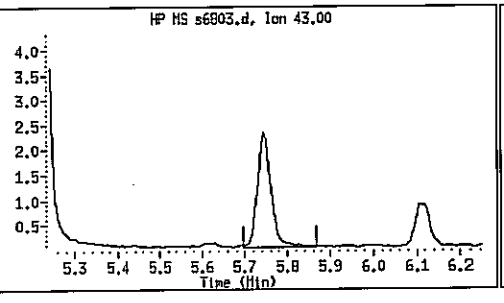
Lab ID : 1202
Injection Date: 07-NOV-2003 10:02
Operator : KRV
Sample Info : 1202*V0STD020*5-5-5
Misc Info : MSV~3956~*1*KRV
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

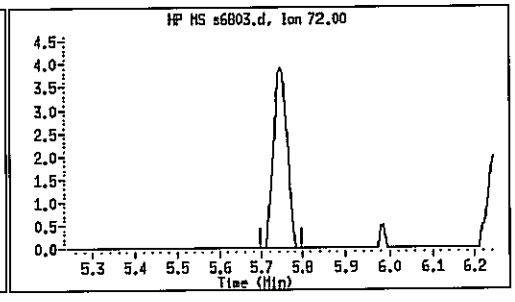
SampleType : CALIB_2
Instrument : msv0.i
Compound Sublist: 8260b



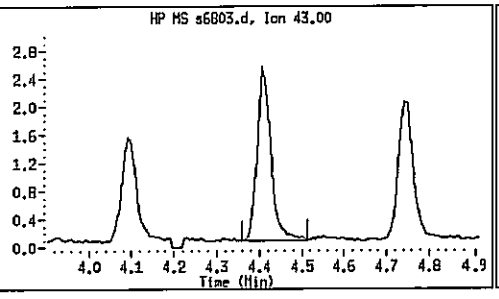
CONCENTRATIONS

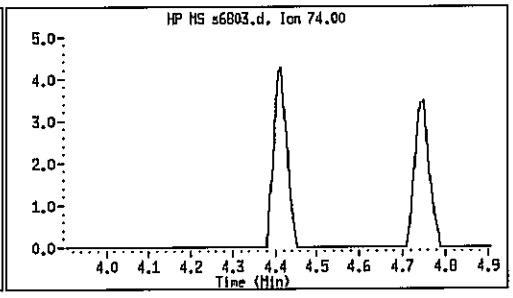
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
22 2-Butanone			CAS#: 78-93-3				
5.743	0.864	43	51631	16	16	80-120	100
5.743	0.864	72	8905			14- 21	17





RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
106 Methyl Acetate				CAS#: 79-20-9			
4.407	0.663	43	57566	18	18	80-120	100
4.407	0.663	74	4146			13- 20	7





Gulf Coast Analytical Laboratories, Inc.

ata file : /var/chem/msv0.i/2031107.s.b/s6804.d
ab Smp Id: 1203 Client Smp ID: V0STD050
nj Date : 07-NOV-2003 10:25
perator : KRV Inst ID: msv0.i
mp Info : 1203*V0STD050*5-5-5
isc Info : MSV~3956~*1*KRV
omment :
ethod : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
eth Date : 10-Nov-2003 16:22 sab Quant Type: ISTD
al Date : 07-NOV-2003 10:25 Cal File: s6804.d
ls bottle: 5 Calibration Sample, Level: 3
il Factor: 1.00000
ntegrator: HP RTE Compound Sublist: 8260b.sub
arget Version: 3.50
rocessing Host: hpcs2

oncentration 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)

pnd Variable Local Compound Variable

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.128	2.128	(0.320)	176000	50.0000	49.7	574
2 Chloromethane ++	50	2.365	2.365	(0.356)	245955	50.0000	49.7	6237
3 Vinyl Chloride +	62	2.497	2.497	(0.376)	227158	50.0000	49.1	4529
4 Bromomethane	94	2.918	2.918	(0.439)	123890	50.0000	52.2	7008
5 Chloroethane	64	3.056	3.056	(0.460)	133737	50.0000	54.5	4019
6 Trichlorofluoromethane	101	3.339	3.339	(0.503)	205407	50.0000	50.0	8137
7 Acrolein	56	3.925	3.925	(0.591)	143774	250.000	263	3544(A)
9 1,1,2Trichlotrifluoroethane	101	3.932	3.932	(0.592)	160422	50.0000	49.6	4612
8 1,1-Dichloroethene +	96	3.971	3.971	(0.598)	137566	50.0000	48.8	8718
10 Acetone	43	4.096	4.096	(0.617)	95616	50.0000	56.3	6529
11 Methyl Iodide	142	4.162	4.162	(0.626)	130551	50.0000	50.5	9364
12 Carbon Disulfide	76	4.202	4.202	(0.632)	609845	50.0000	50.0	8851
106 Methyl Acetate	43	4.412	4.412	(0.664)	157478	50.0000	51.6	1547

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.544	4.544	(0.684)	297818	50.0000	52.7	9527
14 Acrylonitrile	53	4.847	4.847	(0.730)	353172	250.000	267	6875(A)
15 trans-1,2-Dichloroethene	61	4.768	4.768	(0.718)	256110	50.0000	50.0	8849
16 MTBE	73	4.748	4.748	(0.715)	489448	50.0000	52.8	4219
17 Hexane	57	4.959	4.959	(0.746)	296075	50.0000	45.9	5176
19 Vinyl Acetate	43	4.959	4.959	(0.746)	215486	50.0000	44.5	
18 1,1-Dichloroethane ++	63	5.209	5.209	(0.784)	366515	50.0000	50.3	6267
22 2-Butanone	43	5.742	5.742	(0.864)	133034	50.0000	50.6	
21 cis-1,2-Dichloroethene	61	5.729	5.729	(0.862)	331405	50.0000	50.1	8240
20 2,2-Dichloropropane	77	5.709	5.709	(0.859)	255436	50.0000	49.7	8501
23 Bromochloromethane	128	5.940	5.940	(0.894)	82636	50.0000	52.1	9012
24 Chloroform +	83	5.979	5.979	(0.900)	315194	50.0000	48.8	9324
25 Dibromofluoromethane	111	6.124	6.124	(0.922)	173956	50.0000	50.9	9330
26 1,1,1-Trichloroethane	97	6.117	6.117	(0.921)	251730	50.0000	50.1	8789
105 Cyclohexane	56	6.111	6.111	(0.920)	401387	50.0000	48.5	9256
27 1,1-Dichloropropene	75	6.249	6.249	(0.941)	237064	50.0000	48.7	6782
28 Carbon Tetrachloride	117	6.229	6.229	(0.938)	187915	50.0000	49.1	8596
32 1,2-Dichloroethane-d4	67	6.420	6.420	(0.966)	100405	50.0000	52.5	6966
33 Benzene	78	6.420	6.420	(0.966)	731430	50.0000	50.2	8940
34 1,2-Dichloroethane	62	6.479	6.479	(0.975)	252997	50.0000	51.0	6411
35 FLUOROBENZENE	96	6.644	6.644	(1.000)	663751	50.0000		9401
36 Trichloroethene	130	6.914	6.914	(1.041)	161713	50.0000	48.8	9194
40 Methyl cyclohexane	83	7.019	7.019	(1.056)	295571	50.0000	47.2	5674
37 1,2-Dichloropropane +	63	7.125	7.125	(1.072)	206639	50.0000	49.3	8350
31 Total 1,2-Dichloroethene	61				587515	100.000	100	0
38 Dibromomethane	93	7.223	7.223	(1.087)	101636	50.0000	51.9	8941
39 Bromodichloromethane	83	7.316	7.316	(1.101)	225740	50.0000	51.6	9051
41 2-Chloroethyl vinyl ether	63	7.513	7.513	(1.131)	84399	50.0000	51.3	6835
42 1-Bromo-2-chloroethane	144	7.579	7.579	(1.141)	22741	50.0000	51.9	1838
44 cis-1,3-Dichloropropene	75	7.645	7.645	(1.151)	300108	50.0000	50.0	
45 4-methyl-2-pentanone	43	7.730	7.730	(1.163)	243190	50.0000	51.7	
46 Toluene-d8	98	7.816	7.816	(0.879)	563021	50.0000	48.9	8875
47 Toluene +	91	7.868	7.868	(0.885)	717085	50.0000	47.5	9284
51 trans-1,3-Dichloropropene	75	8.053	8.053	(0.905)	285326	50.0000	50.9	
52 1,1,2-Trichloroethane	97	8.198	8.198	(0.922)	138275	50.0000	50.3	8375
53 1,3-Dichloropropane	76	8.329	8.329	(0.936)	280734	50.0000	51.1	8597
54 Tetrachloroethene	164	8.257	8.257	(0.928)	118442	50.0000	48.0	5557
55 2-Hexanone	43	8.329	8.329	(0.936)	192592	50.0000	48.6	5466
56 Dibromochloromethane	129	8.487	8.487	(0.954)	152555	50.0000	49.8	8922
57 1,2-Dibromoethane(EDB)	107	8.599	8.599	(0.967)	135346	50.0000	48.9	5533
58 Chlorobenzene-d5	82	8.895	8.895	(1.000)	267088	50.0000		9082
59 Chlorobenzene ++	112	8.915	8.915	(1.002)	463539	50.0000	48.9	8656
60 1,1,1,2-Tetrachloroethane	133	8.968	8.968	(1.008)	143104	50.0000	50.2	8932
61 Ethylbenzene +	106	8.948	8.948	(1.006)	249231	50.0000	49.7	9353
62 p,m-Xylene	106	9.027	9.027	(1.015)	602360	100.000	93.8	9401
63 o-Xylene	106	9.310	9.310	(1.047)	298630	50.0000	48.8	
64 Styrene	104	9.323	9.323	(1.048)	540394	50.0000	48.6	8604

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.508	9.508	(1.069)	91791	50.0000	49.8	8391
66 Isopropylbenzene	105	9.541	9.541	(1.073)	741670	50.0000	47.7	9353
67 Bromofluorobenzene	174	9.699	9.699	(1.090)	159126	50.0000	47.9	8298
68 1,1,2,2-Tetrachloroethane++	83	9.784	9.784	(0.934)	165950	50.0000	48.6	8973
69 trans-1,4-Dichloro-2-Butene	53	9.929	9.929	(0.948)	27403	50.0000	49.4	4526
70 1,2,3-Trichloropropane	75	9.830	9.830	(0.938)	232855	50.0000	51.0	6403
71 Bromobenzene	77	9.824	9.824	(0.938)	429584	50.0000	49.8	6891
72 n-Propylbenzene	91	9.929	9.929	(0.948)	623651	50.0000	33.2	6185(H)
73 2-Chlorotoluene	91	10.001	10.001	(0.955)	578992	50.0000	46.0	9079
74 1,3,5-Trimethylbenzene	105	9.929	9.929	(0.948)	627510	50.0000	48.4	
75 4-Chlorotoluene	91	10.001	10.001	(0.955)	605096	50.0000	49.6	8692
76 tert-butylbenzene	91	10.153	10.153	(0.969)	426864	50.0000	47.5	9145
77 1,2,4-Trimethylbenzene	105	10.186	10.186	(0.972)	590044	50.0000	48.5	
78 sec-Butylbenzene	105	10.291	10.291	(0.982)	781296	50.0000	46.9	
79 p-Isopropyltoluene	119	10.377	10.377	(0.991)	594516	50.0000	47.2	9119
80 1,3-Dichlorobenzene	146	10.429	10.429	(0.996)	295480	50.0000	48.7	
81 1,4-DICHLOROBENZENE-D4	152	10.475	10.475	(1.000)	194877	50.0000		8381
82 1,4-Dichlorobenzene	146	10.489	10.489	(1.001)	288788	50.0000	47.2	
83 n-Butylbenzene	91	10.647	10.647	(1.016)	544664	50.0000	46.3	9320
85 1,2-Dichlorobenzene	146	10.758	10.758	(1.027)	260717	50.0000	47.7	
86 1,2-Dibromo-3-Chloropropane	157	11.298	11.298	(1.079)	26812	50.0000	50.7	5734
84 TOTAL XYLENE	106				900990	150.000	143	0
87 1,2,4-Trichlorobenzene	180	11.864	11.864	(1.133)	161558	50.0000	48.6	
88 Hexachlorobutadiene	225	11.910	11.910	(1.137)	98149	50.0000	46.2	9449
89 Napthalene	128	12.075	12.075	(1.153)	283320	50.0000	49.9	9041
90 1,2,3-Trichlorobenzene	180	12.253	12.253	(1.170)	152409	50.0000	49.8	

QC Flag Legend

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

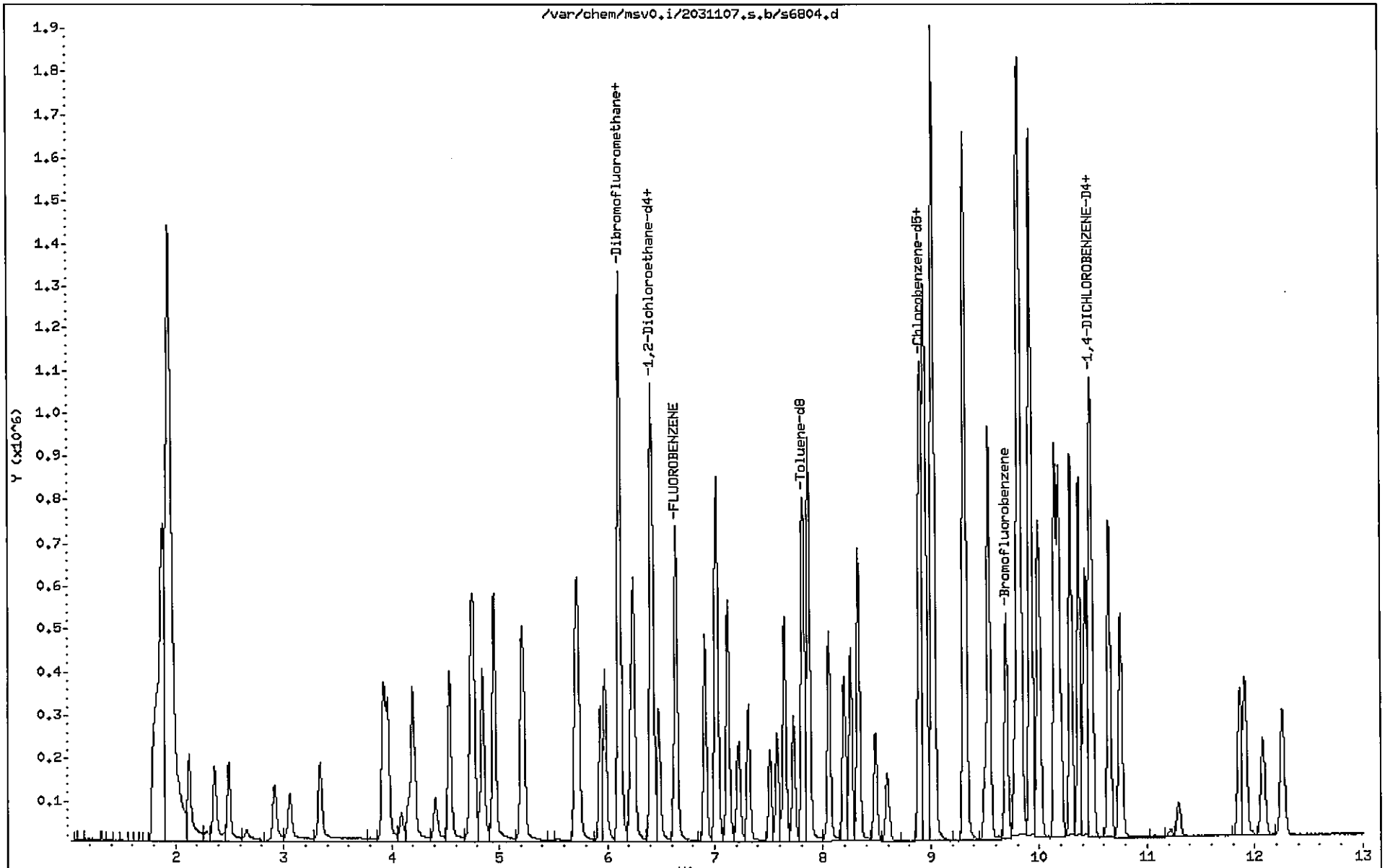
Data File: /var/chem/msv0.i/2031107.s.b/s6804.d
Date : 07-NOV-2003 10:25
Client ID: V0STD050
Sample Info: 1203*V0STD050*5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000182



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107.s.b/s6805.d
Lab Smp Id: 1204 Client Smp ID: V0STD100
Inj Date : 07-NOV-2003 10:47
Operator : RSP Inst ID: msv0.i
Smp Info : 1204*V0STD100*5-5-5
Misc Info : MSV~3956~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:22 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 10:47 Cal File: s6805.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/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	2.128	2.128	(0.320)	381790	100.000	105	592
2 Chloromethane ++	50	2.365	2.365	(0.356)	475283	100.000	93.3	6237
3 Vinyl Chloride +	62	2.490	2.490	(0.375)	491797	100.000	103	4521
4 Bromomethane	94	2.911	2.911	(0.438)	239449	100.000	98.0	7053
5 Chloroethane	64	3.049	3.049	(0.459)	274553	100.000	112	4019
6 Trichlorofluoromethane	101	3.332	3.332	(0.502)	448203	100.000	106	8137
7 Acrolein	56	3.925	3.925	(0.591)	273377	500.000	485	3534(A)
9 1,1,2Trichlotrifluoroethane	101	3.931	3.931	(0.592)	349378	100.000	105	4478
8 1,1-Dichloroethene +	96	3.964	3.964	(0.597)	303833	100.000	105	8741
10 Acetone	43	4.089	4.089	(0.616)	168704	100.000	106	6530
11 Methyl Iodide	142	4.162	4.162	(0.626)	322451	100.000	121	9389
12 Carbon Disulfide	76	4.201	4.201	(0.632)	1244193	100.000	99.0	0(M)
106 Methyl Acetate	43	4.405	4.405	(0.663)	294979	100.000	93.8	1438

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.544	4.544	(0.684)	563695	100.000	101	9498
14 Acrylonitrile	53	4.846	4.846	(0.729)	660185	500.000	484	6875(A)
15 trans-1,2-Dichloroethene	61	4.767	4.767	(0.718)	541981	100.000	103	8847
16 MTBE	73	4.741	4.741	(0.714)	939113	100.000	98.4	0(M)
17 Hexane	57	4.952	4.952	(0.745)	705136	100.000	106	5132
19 Vinyl Acetate	43	4.952	4.952	(0.745)	491719	100.000	98.7	
18 1,1-Dichloroethane ++	63	5.209	5.209	(0.784)	779375	100.000	104	6221
22 2-Butanone	43	5.742	5.742	(0.864)	256345	100.000	98.4	
21 cis-1,2-Dichloroethene	61	5.729	5.729	(0.862)	704649	100.000	103	8240
20 2,2-Dichloropropane	77	5.709	5.709	(0.859)	554056	100.000	105	8426
23 Bromochloromethane	128	5.939	5.939	(0.894)	165681	100.000	102	9044
24 Chloroform +	83	5.979	5.979	(0.900)	639992	100.000	96.1	9311
25 Dibromofluoromethane	111	6.117	6.117	(0.921)	356634	100.000	101	9384
26 1,1,1-Trichloroethane	97	6.117	6.117	(0.921)	547529	100.000	106	8824
105 Cyclohexane	56	6.110	6.110	(0.920)	907476	100.000	107	9337
27 1,1-Dichloropropene	75	6.249	6.249	(0.941)	526880	100.000	105	6766
28 Carbon Tetrachloride	117	6.222	6.222	(0.937)	416787	100.000	106	8882
32 1,2-Dichloroethane-d4	67	6.420	6.420	(0.966)	198092	100.000	101	6880
33 Benzene	78	6.420	6.420	(0.966)	1522943	100.000	102	0(M)
34 1,2-Dichloroethane	62	6.479	6.479	(0.975)	499948	100.000	97.9	6411
35 FLUOROBENZENE	96	6.644	6.644	(1.000)	683361	50.0000		9405
36 Trichloroethene	130	6.914	6.914	(1.041)	357527	100.000	105	9179
40 Methyl cyclohexane	83	7.019	7.019	(1.056)	697701	100.000	108	5674
37 1,2-Dichloropropane +	63	7.124	7.124	(1.072)	441737	100.000	102	8423
31 Total 1,2-Dichloroethene	61				1246630	200.000	206	0
38 Dibromomethane	93	7.223	7.223	(1.087)	203113	100.000	101	8986
39 Bromodichloromethane	83	7.315	7.315	(1.101)	455781	100.000	101	9156
41 2-Chloroethyl vinyl ether	63	7.513	7.513	(1.131)	174658	100.000	103	6853
42 1-Bromo-2-chloroethane	144	7.578	7.578	(1.141)	46977	100.000	104	2694
44 cis-1,3-Dichloropropene	75	7.644	7.644	(1.151)	627396	100.000	101	
45 4-methyl-2-pentanone	43	7.730	7.730	(1.163)	465916	100.000	96.2	
46 Toluene-d8	98	7.815	7.815	(0.879)	1198850	100.000	106	8871
47 Toluene +	91	7.868	7.868	(0.885)	1574794	100.000	106	9225
51 trans-1,3-Dichloropropene	75	8.052	8.052	(0.905)	570066	100.000	103	
52 1,1,2-Trichloroethane	97	8.197	8.197	(0.922)	281128	100.000	104	8359
53 1,3-Dichloropropane	76	8.329	8.329	(0.936)	557289	100.000	103	8589
54 Tetrachloroethene	164	8.257	8.257	(0.928)	260767	100.000	107	5523
55 2-Hexanone	43	8.329	8.329	(0.936)	366547	100.000	93.7	5554
56 Dibromochloromethane	129	8.487	8.487	(0.954)	317989	100.000	105	8982
57 1,2-Dibromoethane(EDB)	107	8.599	8.599	(0.967)	280041	100.000	103	5533
58 Chlorobenzene-d5	82	8.895	8.895	(1.000)	263524	50.0000		8771
59 Chlorobenzene ++	112	8.915	8.915	(1.002)	966945	100.000	103	8916
60 1,1,1,2-Tetrachloroethane	133	8.967	8.967	(1.008)	290500	100.000	103	8971
61 Ethylbenzene +	106	8.948	8.948	(1.006)	511838	100.000	104	9368
62 p,m-Xylene	106	9.027	9.027	(1.015)	1362814	200.000	215	9385(A)
63 o-Xylene	106	9.316	9.316	(1.047)	635717	100.000	105	
64 Styrene	104	9.323	9.323	(1.048)	1145550	100.000	104	8688

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.501	9.501	(1.068)	191444	100.000	105	8386
66 Isopropylbenzene	105	9.540	9.540	(1.073)	1630318	100.000	106	9367
67 Bromofluorobenzene	174	9.698	9.698	(1.090)	337287	100.000	103	8346
68 1,1,2,2-Tetrachloroethane++	83	9.777	9.777	(0.933)	350991	100.000	102	9203
69 trans-1,4-Dichloro-2-Butene	53	9.929	9.929	(0.948)	58265	100.000	105	4527
70 1,2,3-Trichloropropane	75	9.830	9.830	(0.938)	462203	100.000	101	6310
71 Bromobenzene	77	9.823	9.823	(0.938)	880735	100.000	102	7021
72 n-Propylbenzene	91	9.817	9.817	(0.937)	2134059	100.000	113	7624
73 2-Chlorotoluene	91	9.929	9.929	(0.948)	1308852	100.000	103	8886(H)
74 1,3,5-Trimethylbenzene	105	9.929	9.929	(0.948)	1383117	100.000	106	
75 4-Chlorotoluene	91	10.001	10.001	(0.955)	1284529	100.000	105	8612(H)
76 tert-butylbenzene	91	10.152	10.152	(0.969)	941441	100.000	104	8999
77 1,2,4-Trimethylbenzene	105	10.192	10.192	(0.973)	1274901	100.000	104	
78 sec-Butylbenzene	105	10.297	10.297	(0.983)	1792511	100.000	107	
79 p-Isopropyltoluene	119	10.376	10.376	(0.991)	1343615	100.000	106	9166
80 1,3-Dichlorobenzene	146	10.429	10.429	(0.996)	646727	100.000	106	
81 1,4-DICHLOROBENZENE-D4	152	10.475	10.475	(1.000)	195788	50.0000		7514
82 1,4-Dichlorobenzene	146	10.488	10.488	(1.001)	641032	100.000	104	
83 n-Butylbenzene	91	10.646	10.646	(1.016)	1268415	100.000	107	9302
85 1,2-Dichlorobenzene	146	10.758	10.758	(1.027)	570703	100.000	104	
86 1,2-Dibromo-3-Chloropropane	157	11.298	11.298	(1.079)	57728	100.000	109	5734
84 TOTAL XYLENE	106				1998531	300.000	320	0
87 1,2,4-Trichlorobenzene	180	11.864	11.864	(1.133)	353299	100.000	106	
88 Hexachlorobutadiene	225	11.917	11.917	(1.138)	237632	100.000	111	9612
89 Napthalene	128	12.081	12.081	(1.153)	613342	100.000	108	9177
90 1,2,3-Trichlorobenzene	180	12.259	12.259	(1.170)	330734	100.000	108	

QC Flag Legend

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

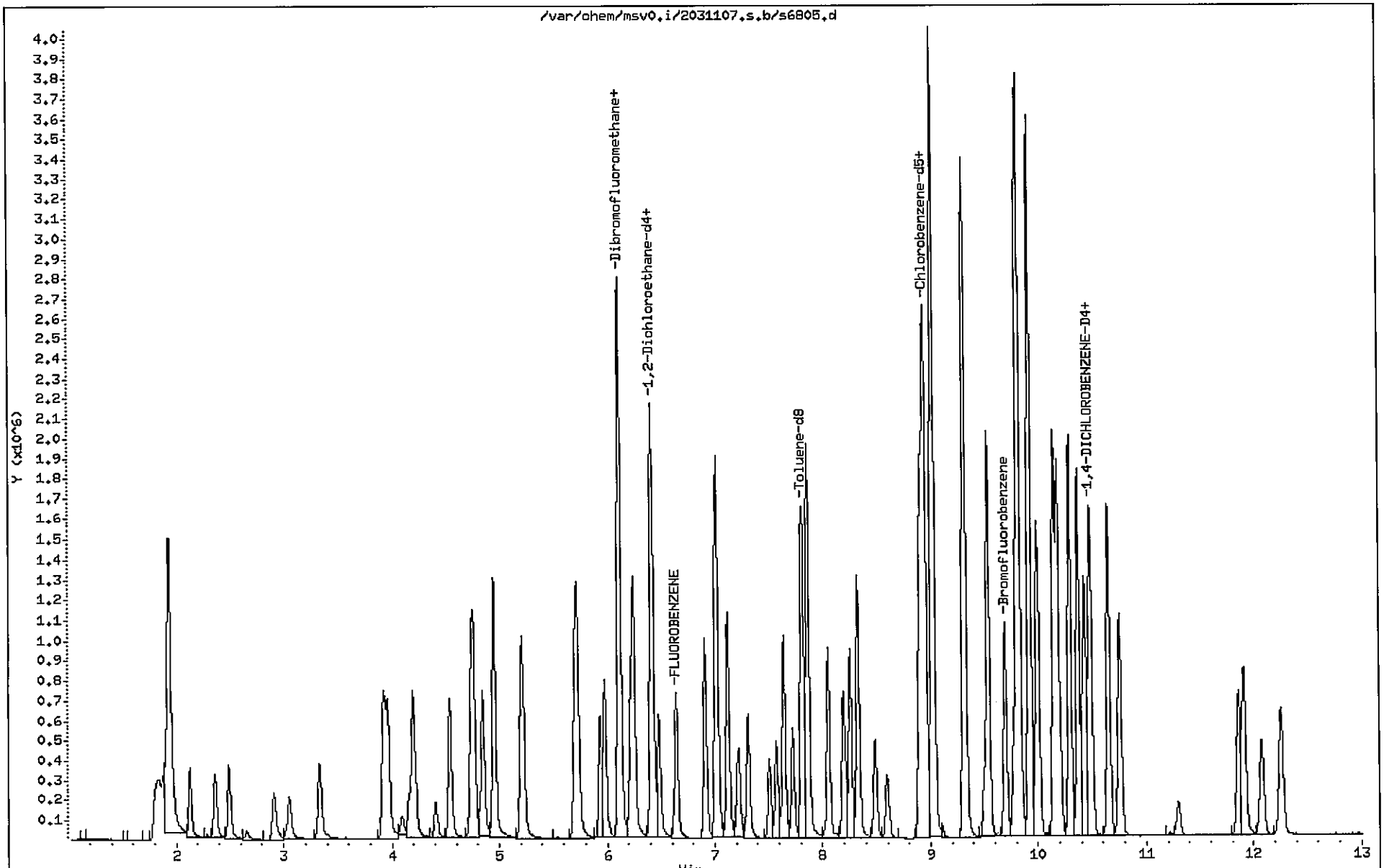
Data File: /var/chem/msv0.i/2031107.s.b/s6805.d
Date : 07-NOV-2003 10:47
Client ID: VOSTD100
Sample Info: 1204*VOSTD100*5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: RSP
Column diameter: 0.53

000186

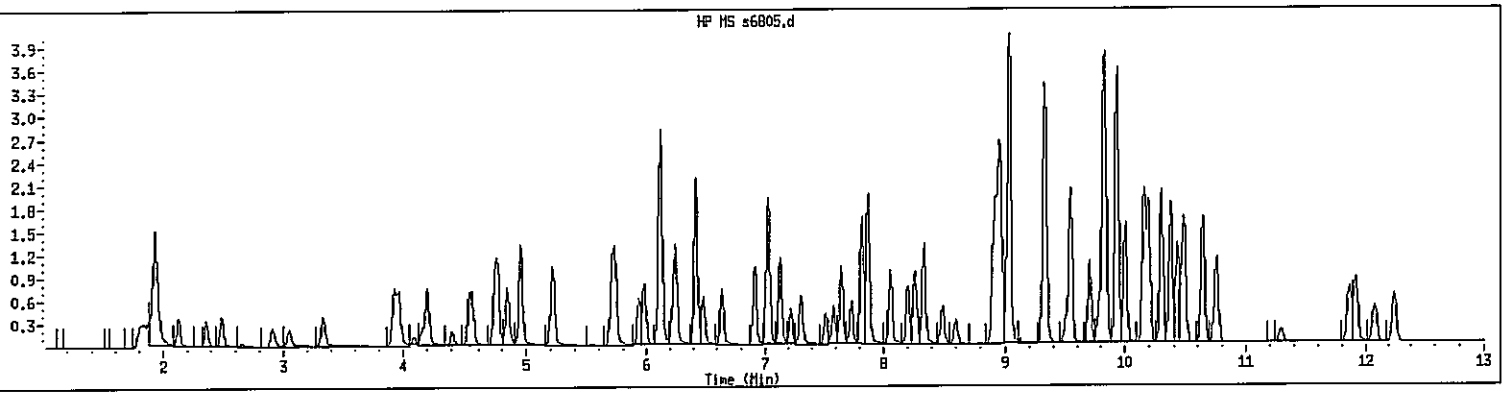


Data file : /var/chem/msv0.i/2031107.s.b/s6805.d
Report Date: 11/10/2003 16:23

MANUAL INTEGRATION GRAPHIC REPORT

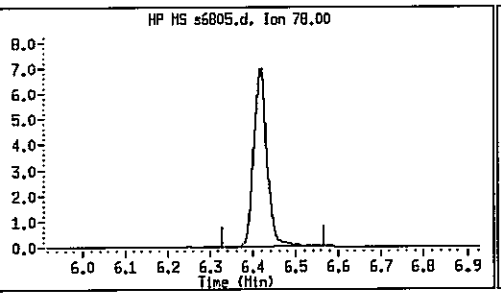
Lab ID : 1204
Injection Date: 07-NOV-2003 10:47
Operator : RSP
Sample Info : 1204*V0STD100*5-5-5
Misc Info : MSV~3956~*1*KRV
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

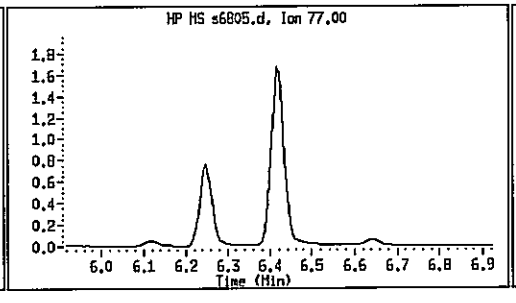
SampleType : CALIB_4
Instrument : msv0.i
Compound Sublist: 8260b

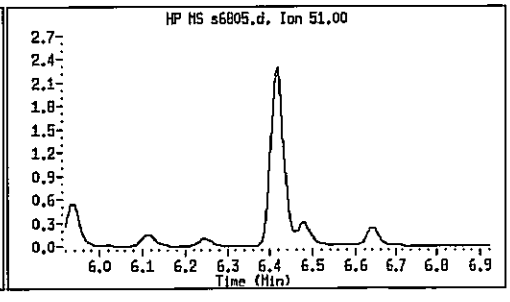


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
33 Benzene			CAS#: 71-43-2				
.420	0.966	78	1522943	102	102	80-120	100
.420	0.966	77	0			0- 0	0
.420	0.966	51	0			0- 0	0

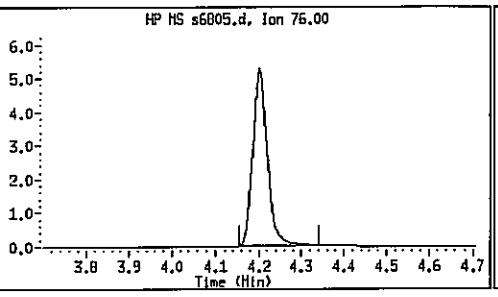


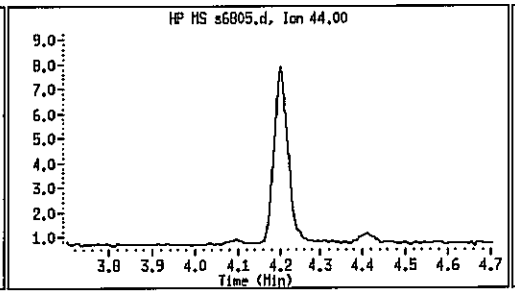


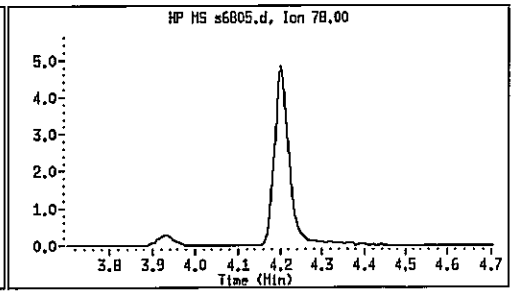


CONCENTRATIONS

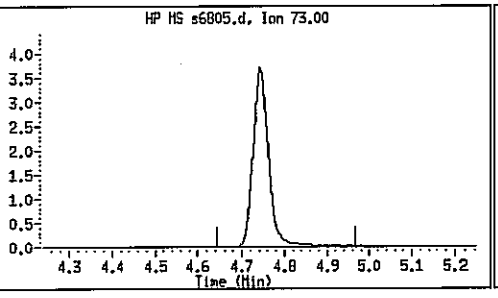
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
12 Carbon Disulfide				CAS#: 75-15-0			
.201	0.632	76	1244193	99	99	80-120	100
.202	0.632	44	0			0- 0	0
.202	0.632	78	0			0- 0	0

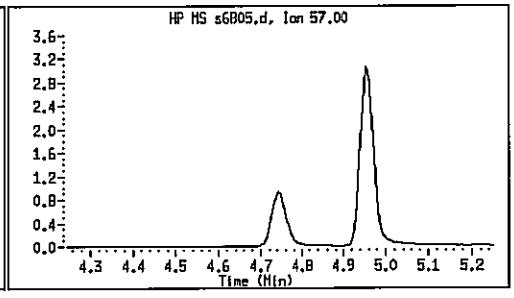






16 MTBE			CAS#: 1634-04-4				
.741	0.714	73	939113	98	98	80-120	100
.748	0.715	57	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107.s.b/s6806.d
Lab Smp Id: 1205 Client Smp ID: V0STD200
Inj Date : 07-NOV-2003 11:09
Operator : KRV Inst ID: msv0.i
Smp Info : 1205*V0STD200*5-5-5
Misc Info : MSV~3956~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:23 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.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/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	2.125	2.125	(0.320)	694859	200.000	191	569
2 Chloromethane ++	50	2.356	2.356	(0.355)	1011460	200.000	199	6237
3 Vinyl Chloride +	62	2.487	2.487	(0.375)	886054	200.000	186	4515
4 Bromomethane	94	2.889	2.889	(0.435)	288125	200.000	118	0(M)
5 Chloroethane	64	3.034	3.034	(0.457)	466581	200.000	192	4019
6 Trichlorofluoromethane	101	3.330	3.330	(0.501)	798768	200.000	189	8088
7 Acrolein	56	3.916	3.916	(0.590)	529600	1000.00	941	0(AM)
9 1,1,2Trichlotrifluoroethane	101	3.922	3.922	(0.591)	610480	200.000	184	4353
8 1,1-Dichloroethene +	96	3.962	3.962	(0.597)	544806	200.000	188	8728
10 Acetone	43	4.087	4.087	(0.615)	292034	200.000	195	6529
11 Methyl Iodide	142	4.153	4.153	(0.625)	656843	200.000	247	0(AM)
12 Carbon Disulfide	76	4.199	4.199	(0.632)	2293682	200.000	183	0(M)
106 Methyl Acetate	43	4.410	4.410	(0.664)	575472	200.000	183	1341

ata File: /var/chem/msv0.i/2031107.s.b/s6806.d
eport Date: 10-Nov-2003 16:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
	==========	====	==	======	======	========	=======	=======	==========
13	Methylene Chloride	49	4.535	4.535	(0.683)	1076253	200.000	199	9555
14	Acrylonitrile	53	4.844	4.844	(0.729)	1343883	1000.00	986	6875(A)
15	trans-1,2-Dichloroethene	61	4.765	4.765	(0.717)	993061	200.000	189	8849
16	MTBE	73	4.739	4.739	(0.714)	1814952	200.000	190	0(M)
17	Hexane	57	4.949	4.949	(0.745)	1282034	200.000	193	5090
19	Vinyl Acetate	43	4.949	4.949	(0.745)	929077	200.000	187	
18	1,1-Dichloroethane ++	63	5.206	5.206	(0.784)	1444984	200.000	193	0(M)
22	2-Butanone	43	5.746	5.746	(0.865)	511082	200.000	201	(A)
21	cis-1,2-Dichloroethene	61	5.726	5.726	(0.862)	1356574	200.000	199	8240
20	2,2-Dichloropropane	77	5.706	5.706	(0.859)	1023181	200.000	193	8573
23	Bromochloromethane	128	5.937	5.937	(0.894)	328227	200.000	201	9085(A)
24	Chloroform +	83	5.983	5.983	(0.901)	1233693	200.000	186	9211
25	Dibromofluoromethane	111	6.121	6.121	(0.922)	712667	200.000	203	9439(A)
26	1,1,1-Trichloroethane	97	6.115	6.115	(0.921)	995819	200.000	193	8827
105	Cyclohexane	56	6.115	6.115	(0.921)	1662049	200.000	195	9429
27	1,1-Dichloropropene	75	6.246	6.246	(0.941)	990047	200.000	198	6764
28	Carbon Tetrachloride	117	6.227	6.227	(0.938)	781060	200.000	198	8859
32	1,2-Dichloroethane-d4	67	6.417	6.417	(0.966)	390428	200.000	199	6944
33	Benzene	78	6.417	6.417	(0.966)	3038812	200.000	203	0(AM)
34	1,2-Dichloroethane	62	6.483	6.483	(0.976)	997654	200.000	196	6411
35	FLUOROBENZENE	96	6.641	6.641	(1.000)	682461	50.0000		9394
36	Trichloroethene	130	6.911	6.911	(1.041)	685112	200.000	201	9170(A)
40	Methyl cyclohexane	83	7.016	7.016	(1.056)	1293496	200.000	201	5640(A)
37	1,2-Dichloropropane +	63	7.122	7.122	(1.072)	883603	200.000	205	8532(A)
31	Total 1,2-Dichloroethene	61				2349635	400.000	389	0
38	Dibromomethane	93	7.221	7.221	(1.087)	410967	200.000	204	9013(A)
39	Bromodichloromethane	83	7.313	7.313	(1.101)	910409	200.000	202	9191(A)
41	2-Chloroethyl vinyl ether	63	7.510	7.510	(1.131)	368469	200.000	218	6846(A)
42	1-Bromo-2-chloroethane	144	7.583	7.583	(1.142)	98299	200.000	218	2887
44	cis-1,3-Dichloropropene	75	7.642	7.642	(1.151)	1263150	200.000	205	(A)
45	4-methyl-2-pentanone	43	7.727	7.727	(1.164)	970643	200.000	201	(A)
$ 46	Toluene-d8	98	7.813	7.813	(0.878)	2346292	200.000	201	8685(A)
47	Toluene +	91	7.866	7.866	(0.884)	3070857	200.000	201	9161(A)
51	trans-1,3-Dichloropropene	75	8.057	8.057	(0.905)	1150936	200.000	203	(A)
52	1,1,2-Trichloroethane	97	8.201	8.201	(0.922)	576757	200.000	207	8359(A)
53	1,3-Dichloropropane	76	8.333	8.333	(0.936)	1151203	200.000	207	8614(A)
54	Tetrachloroethene	164	8.254	8.254	(0.928)	501402	200.000	201	5484(A)
55	2-Hexanone	43	8.327	8.327	(0.936)	734894	200.000	183	5764
56	Dibromochloromethane	129	8.485	8.485	(0.953)	657176	200.000	212	9006(A)
57	1,2-Dibromoethane(EDB)	107	8.596	8.596	(0.966)	587203	200.000	210	5533(A)
* 58	Chlorobenzene-d5	82	8.899	8.899	(1.000)	270475	50.0000		7813
59	Chlorobenzene ++	112	8.919	8.919	(1.002)	1992169	200.000	208	9148(A)
60	1,1,1,2-Tetrachloroethane	133	8.965	8.965	(1.007)	604112	200.000	209	9067(A)
61	Ethylbenzene +	106	8.952	8.952	(1.006)	1056066	200.000	208	9380(A)
62	p,m-Xylene	106	9.024	9.024	(1.014)	2717127	400.000	418	9270(A)
63	o-Xylene	106	9.314	9.314	(1.047)	1310660	200.000	212	(A)
64	Styrene	104	9.327	9.327	(1.048)	2446364	200.000	217	9077(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.505	9.505	(1.068)	416932	200.000	223	8419(A)
66 Isopropylbenzene	105	9.544	9.544	(1.072)	3333794	200.000	212	9329(A)
67 Bromofluorobenzene	174	9.702	9.702	(1.090)	711124	200.000	211	8542(A)
68 1,1,2,2-Tetrachloroethane++	83	9.781	9.781	(0.934)	765394	200.000	207	9244(A)
69 trans-1,4-Dichloro-2-Butene	53	9.926	9.926	(0.948)	107027	200.000	178	4403
70 1,2,3-Trichloropropane	75	9.834	9.834	(0.939)	977511	200.000	198	6745
71 Bromobenzene	77	9.821	9.821	(0.938)	1815233	200.000	194	7325
72 n-Propylbenzene	91	9.821	9.821	(0.938)	4360514	200.000	214	7780(A)
73 2-Chlorotoluene	91	9.926	9.926	(0.948)	2765067	200.000	203	8977(A)
74 1,3,5-Trimethylbenzene	105	9.926	9.926	(0.948)	2826774	200.000	201	(A)
75 4-Chlorotoluene	91	9.999	9.999	(0.955)	2571518	200.000	195	8608
76 tert-butylbenzene	91	10.150	10.150	(0.969)	1875192	200.000	193	9052
77 1,2,4-Trimethylbenzene	105	10.190	10.190	(0.973)	2733461	200.000	208	(A)
78 sec-Butylbenzene	105	10.295	10.295	(0.983)	3630032	200.000	201	(A)
79 p-Isopropyltoluene	119	10.374	10.374	(0.991)	2760705	200.000	203	9256(A)
80 1,3-Dichlorobenzene	146	10.433	10.433	(0.996)	1320663	200.000	201	(A)
81 1,4-DICHLOROBENZENE-D4	152	10.473	10.473	(1.000)	210797	50.0000		6740
82 1,4-Dichlorobenzene	146	10.492	10.492	(1.002)	1340887	200.000	203	(A)
83 n-Butylbenzene	91	10.650	10.650	(1.017)	2604455	200.000	205	9273(A)
85 1,2-Dichlorobenzene	146	10.756	10.756	(1.027)	1177951	200.000	199	
86 1,2-Dibromo-3-Chloropropane	157	11.295	11.295	(1.079)	122805	200.000	215	5757(A)
84 TOTAL XYLENE	106				4027787	600.000	629	0
87 1,2,4-Trichlorobenzene	180	11.862	11.862	(1.133)	756530	200.000	210	(A)
88 Hexachlorobutadiene	225	11.914	11.914	(1.138)	456820	200.000	199	9660
89 Napthalene	128	12.079	12.079	(1.153)	1386074	200.000	226	0(AM)
90 1,2,3-Trichlorobenzene	180	12.257	12.257	(1.170)	706305	200.000	213	(A)

QC Flag Legend

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

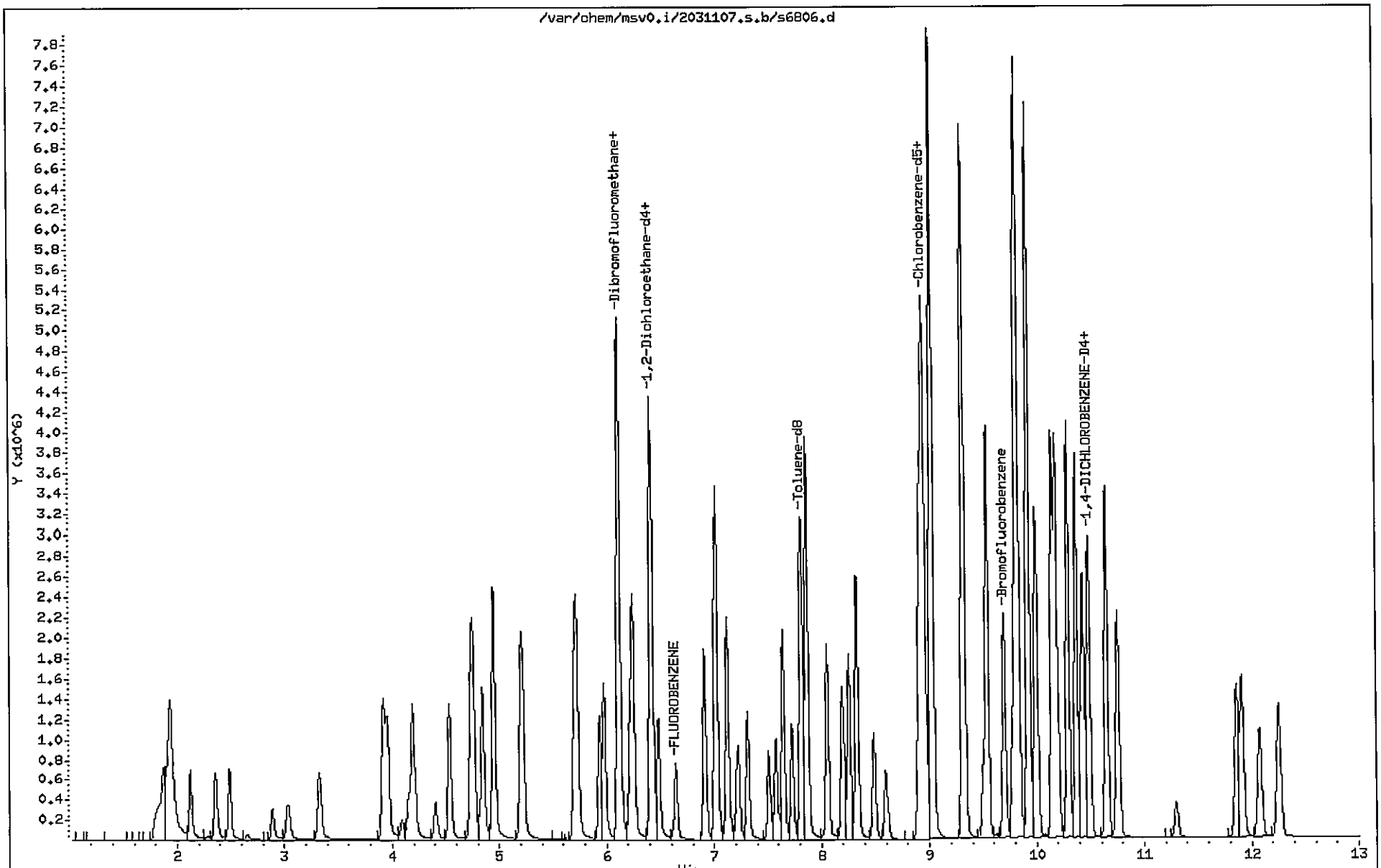
Data File: /var/chem/msv0.i/2031107.s.b/s6806.d
Date : 07-NOV-2003 11:09
Client ID: VOSTD200
Sample Info: 1205MVOSTD200M5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

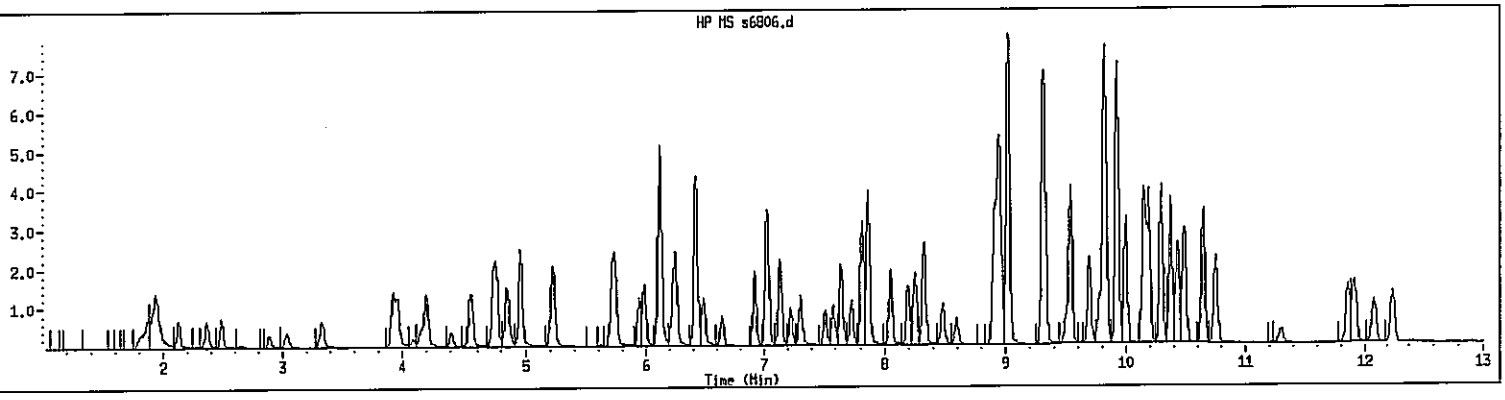
000192



Data file : /var/chem/msv0.i/2031107.s.b/s6806.d
Report Date: 11/10/2003 16:23

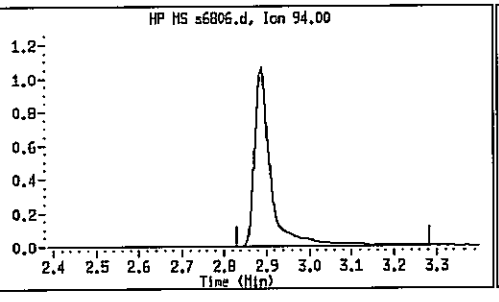
MANUAL INTEGRATION GRAPHIC REPORT

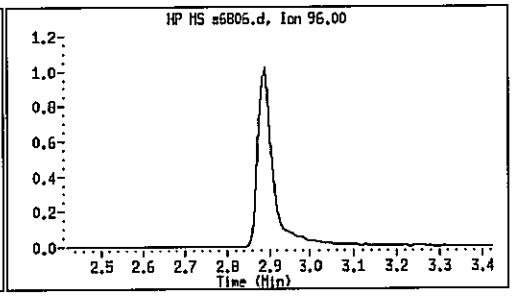
Lab ID : 1205 SampleType : CALIB_5
Injection Date: 07-NOV-2003 11:09 Instrument : msv0.i
Operator : KRV
Sample Info : 1205*V0STD200*5-5-5
Misc Info : MSV~3956~*1*KRV
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE Compound Sublist: 8260b



CONCENTRATIONS

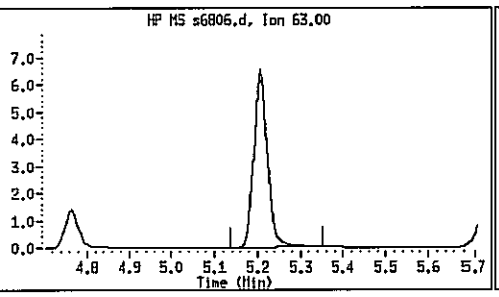
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
4 Bromomethane			CAS#: 74-83-9				
.889	0.435	94	288125	118	118	80-120	100
.919	0.440	96	0			0- 0	0

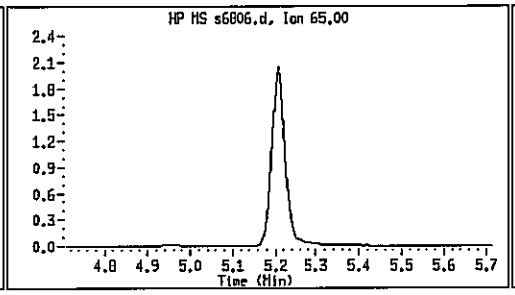


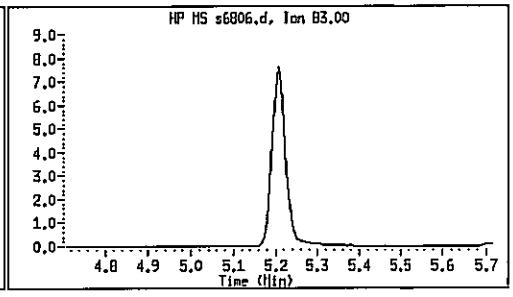


CONCENTRATIONS

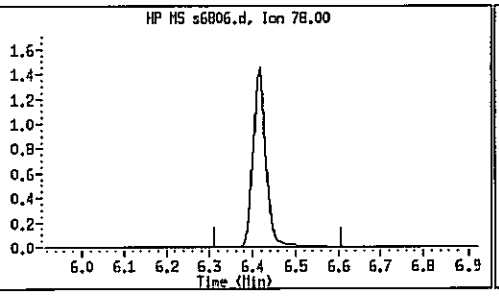
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
18 1,1-Dichloroethane ++				CAS#: 75-34-3			
.206	0.784	63	1444984	193	193	80-120	100
.210	0.784	65	0			0- 0	0
.210	0.784	83	0			0- 0	0

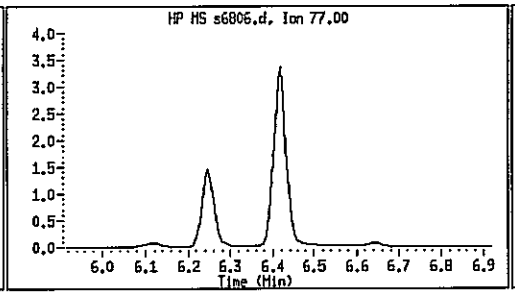


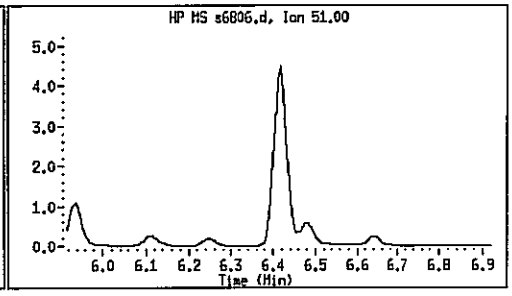




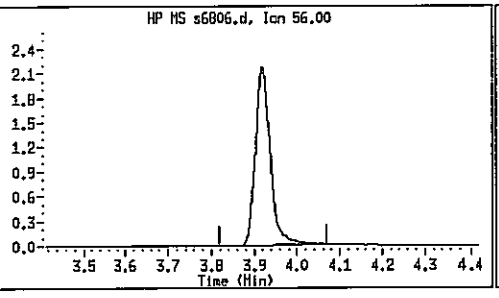
33 Benzene			CAS#: 71-43-2				
.417	0.966	78	3038812	203	203	80-120	100
.414	0.966	77	0			0- 0	0
.414	0.966	51	0			0- 0	0

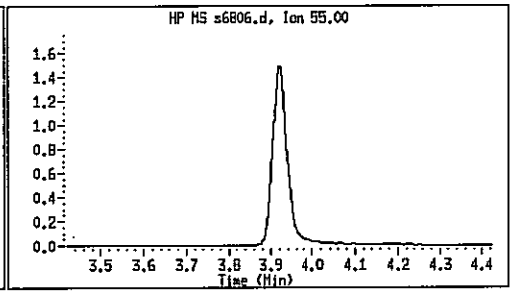






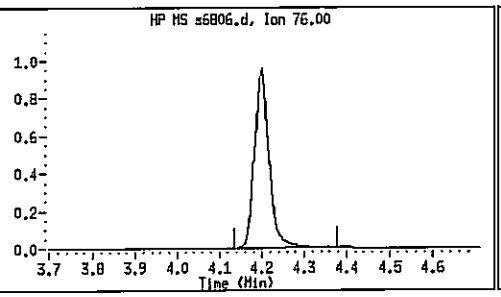
7 Acrolein			CAS#: 107-02-8				
.916	0.590	56	529600	941	941	80-120	100
.920	0.590	55	0			0- 0	0

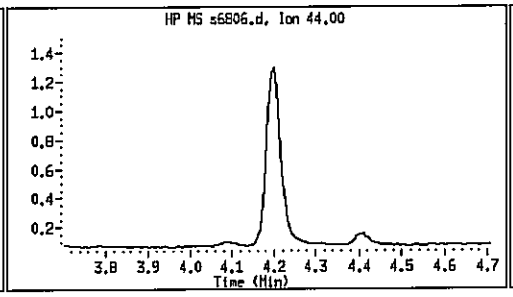


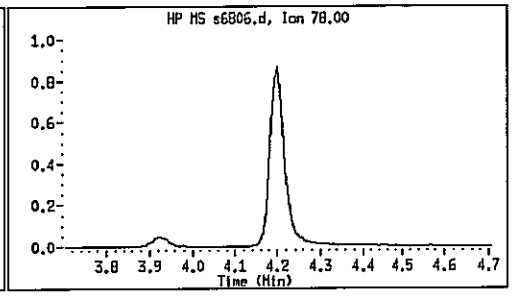


CONCENTRATIONS

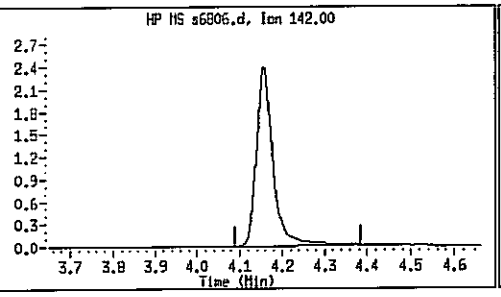
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
12 Carbon Disulfide			CAS#: 75-15-0				
.199	0.632	76	2293682	183	183	80-120	100
.203	0.633	44	0			0- 0	0
.203	0.633	78	0			0- 0	0

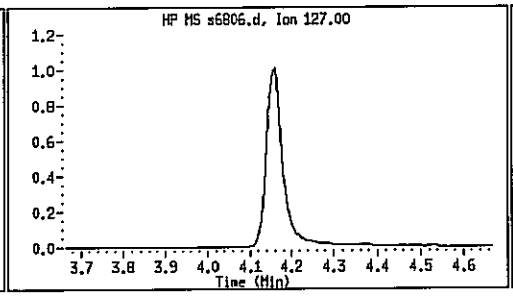


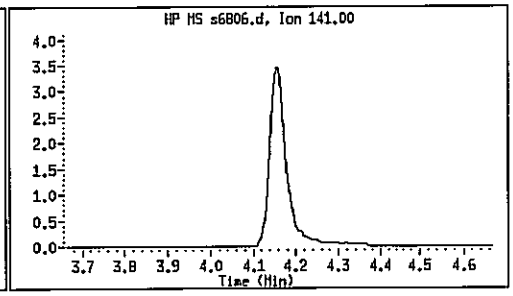




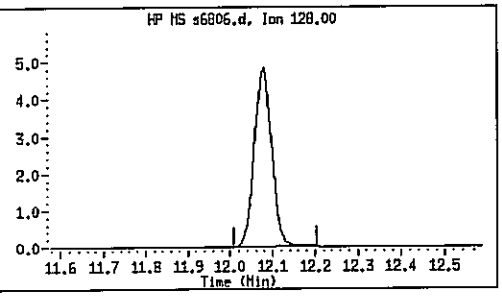
11 Methyl Iodide			CAS#: 74-88-4				
.153	0.625	142	656843	247	247	80-120	100
.163	0.627	127	0			0- 0	0
.163	0.627	141	0			0- 0	0



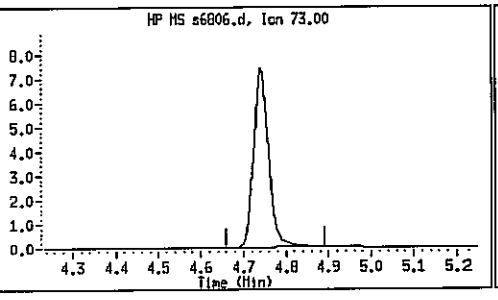


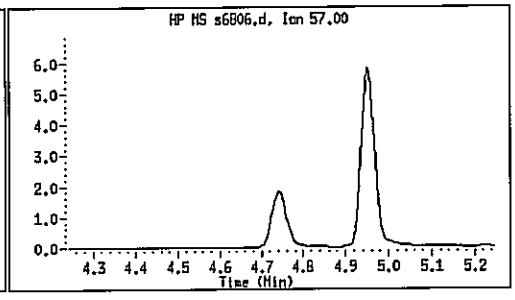


89 Napthalene			CAS#: 91-20-3				
12.079	1.153	128	1386074	226	226	80-120	100



RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
16 MTBE			CAS#: 1634-04-4				
.739	0.714	73	1814952	190	190	80-120	100
.742	0.714	57	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107.s.b/s6801.d
Lab Smp Id: 1206 Client Smp ID: V0STD002
Inj Date : 07-NOV-2003 09:17
Operator : KRV Inst ID: msv0.i
Smp Info : 1206*V0STD002*5-5-5
Misc Info : MSV~3956~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:22 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 09:17 Cal File: s6801.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	2.129	2.129	(0.320)	7352	2.00000	1.99	617(a)
2 Chloromethane ++	50	2.366	2.366	(0.356)	11932	2.00000	2.31	5820
3 Vinyl Chloride +	62	2.497	2.497	(0.376)	10127	2.00000	2.10	3863
4 Bromomethane	94	2.886	2.886	(0.434)	2897	2.00000	1.21	4533
6 Trichlorofluoromethane	101	3.327	3.327	(0.501)	8881	2.00000	2.07	6737
7 Acrolein	56	3.919	3.919	(0.590)	6890	10.0000	12.1	3172
9 1,1,2Trichlotrifluoroethane	101	3.926	3.926	(0.591)	7064	2.00000	2.09	4558
8 1,1-Dichloroethene +	96	3.965	3.965	(0.597)	6095	2.00000	2.07	7917
11 Methyl Iodide	142	4.163	4.163	(0.626)	4577	2.00000	1.69	7761
12 Carbon Disulfide	76	4.202	4.202	(0.632)	30211	2.00000	2.37	7201
106 Methyl Acetate	43	4.406	4.406	(0.663)	9705	2.00000	3.04	2435(a)
14 Acrylonitrile	53	4.847	4.847	(0.730)	14521	10.0000	10.5	6644
15 trans-1,2-Dichloroethene	61	4.768	4.768	(0.718)	11500	2.00000	2.15	8204

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
16 MTBE	73	4.749	4.749	(0.715)	20346	2.00000	2.10	4125
17 Hexane	57	4.959	4.959	(0.746)	14886	2.00000	2.21	4774(a)
19 Vinyl Acetate	43	4.959	4.959	(0.746)	15234	2.00000	3.01	
18 1,1-Dichloroethane ++	63	5.209	5.209	(0.784)	15952	2.00000	2.10	5470
22 2-Butanone	43	5.743	5.743	(0.864)	25649	2.00000	5.91	
21 cis-1,2-Dichloroethene	61	5.729	5.729	(0.862)	14299	2.00000	2.07	7794
20 2,2-Dichloropropane	77	5.710	5.710	(0.859)	11585	2.00000	2.16	7641
23 Bromochloromethane	128	5.940	5.940	(0.894)	3097	2.00000	1.87	8694
24 Chloroform +	83	5.986	5.986	(0.901)	20499	2.00000	3.04	8814
25 Dibromofluoromethane	111	6.118	6.118	(0.921)	6695	50.0000	1.88	7915
26 1,1,1-Trichloroethane	97	6.118	6.118	(0.921)	10383	2.00000	1.98	8136
105 Cyclohexane	56	6.111	6.111	(0.920)	17003	2.00000	1.97	8128(a)
27 1,1-Dichloropropene	75	6.250	6.250	(0.941)	10131	2.00000	1.99	6487
28 Carbon Tetrachloride	117	6.230	6.230	(0.938)	7668	2.00000	1.92	8005
32 1,2-Dichloroethane-d4	67	6.421	6.421	(0.966)	3791	50.0000	1.90	6437
33 Benzene	78	6.421	6.421	(0.966)	31224	2.00000	2.05	8863
34 1,2-Dichloroethane	62	6.487	6.487	(0.976)	11022	2.00000	2.13	5940
35 FLUOROBENZENE	96	6.644	6.644	(1.000)	693231	50.0000		9396
36 Trichloroethene	130	6.914	6.914	(1.041)	6922	2.00000	2.00	8933
40 Methyl cyclohexane	83	7.020	7.020	(1.056)	12123	2.00000	1.85	5502(a)
37 1,2-Dichloropropane +	63	7.125	7.125	(1.072)	8480	2.00000	1.94	7458
31 Total 1,2-Dichloroethene	61				25799	4.00000	4.21	0
38 Dibromomethane	93	7.217	7.217	(1.086)	4263	2.00000	2.08	6386
39 Bromodichloromethane	83	7.316	7.316	(1.101)	9142	2.00000	2.00	8658
41 2-Chloroethyl vinyl ether	63	7.513	7.513	(1.131)	3329	2.00000	1.94	5378
44 cis-1,3-Dichloropropene	75	7.639	7.639	(1.150)	12297	2.00000	1.96	
46 Toluene-d8	98	7.816	7.816	(0.879)	21899	50.0000	1.84	8263
47 Toluene +	91	7.869	7.869	(0.885)	31028	2.00000	1.99	9189
51 trans-1,3-Dichloropropene	75	8.053	8.053	(0.905)	11032	2.00000	1.91	
52 1,1,2-Trichloroethane	97	8.198	8.198	(0.922)	5653	2.00000	2.00	7659
53 1,3-Dichloropropane	76	8.330	8.330	(0.936)	11056	2.00000	1.95	7845
54 Tetrachloroethene	164	8.257	8.257	(0.928)	5050	2.00000	1.99	5547
55 2-Hexanone	43	8.330	8.330	(0.936)	12858	2.00000	3.15	4254
56 Dibromochloromethane	129	8.488	8.488	(0.954)	5742	2.00000	1.82	7717
57 1,2-Dibromoethane(EDB)	107	8.600	8.600	(0.967)	5768	2.00000	2.02	4563
58 Chlorobenzene-d5	82	8.896	8.896	(1.000)	275377	50.0000		9199
59 Chlorobenzene ++	112	8.916	8.916	(1.002)	18902	2.00000	1.94	4601
60 1,1,1,2-Tetrachloroethane	133	8.962	8.962	(1.007)	5407	2.00000	1.84	8078
61 Ethylbenzene +	106	8.949	8.949	(1.006)	9259	2.00000	1.79	8701
62 p,m-Xylene	106	9.028	9.028	(1.015)	25770	4.00000	3.89	9317
63 o-Xylene	106	9.317	9.317	(1.047)	11234	2.00000	1.78	
64 Styrene	104	9.324	9.324	(1.048)	19864	2.00000	1.73	8345
65 Bromoform ++	173	9.508	9.508	(1.069)	3320	2.00000	1.75	6836
66 Isopropylbenzene	105	9.541	9.541	(1.073)	28907	2.00000	1.80	8827
67 Bromofluorobenzene	174	9.699	9.699	(1.090)	6000	50.0000	1.75	7314
69 trans-1,4-Dichloro-2-Butene	53	9.824	9.824	(0.938)	2501	2.00000	4.59	4350(a)
70 1,2,3-Trichloropropane	75	9.831	9.831	(0.939)	9387	2.00000	2.09	6463

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
71 Bromobenzene	77	9.818	9.818	(0.938)	17654	2.00000	2.08	6059
72 n-Propylbenzene	91	9.818	9.818	(0.938)	37092	2.00000	2.01	6906
73 2-Chlorotoluene	91	10.002	10.002	(0.955)	24286	2.00000	1.96	8860
74 1,3,5-Trimethylbenzene	105	9.929	9.929	(0.948)	24015	2.00000	1.89	
75 4-Chlorotoluene	91	10.002	10.002	(0.955)	22833	2.00000	1.91	8152
76 tert-butylbenzene	91	10.153	10.153	(0.970)	17211	2.00000	1.95	9052
77 1,2,4-Trimethylbenzene	105	10.186	10.186	(0.973)	21844	2.00000	1.83	
78 sec-Butylbenzene	105	10.291	10.291	(0.983)	29089	2.00000	1.78	
79 p-Isopropyltoluene	119	10.370	10.370	(0.991)	23270	2.00000	1.88	8698
80 1,3-Dichlorobenzene	146	10.430	10.430	(0.996)	11091	2.00000	1.86	
81 1,4-DICHLOROBENZENE-D4	152	10.469	10.469	(1.000)	191290	50.0000		9236
82 1,4-Dichlorobenzene	146	10.489	10.489	(1.002)	12297	2.00000	2.05	
83 n-Butylbenzene	91	10.647	10.647	(1.017)	20255	2.00000	1.76	8752
85 1,2-Dichlorobenzene	146	10.759	10.759	(1.028)	10002	2.00000	1.86	
84 TOTAL XYLENE	106				37004	6.00000	5.67	0
87 1,2,4-Trichlorobenzene	180	11.858	11.858	(1.133)	5423	2.00000	1.66	
88 Hexachlorobutadiene	225	11.918	11.918	(1.138)	3255	2.00000	1.56	7729
89 Napthalene	128	12.082	12.082	(1.154)	8891	2.00000	1.60	5581
90 1,2,3-Trichlorobenzene	180	12.253	12.253	(1.170)	4755	2.00000	1.58	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

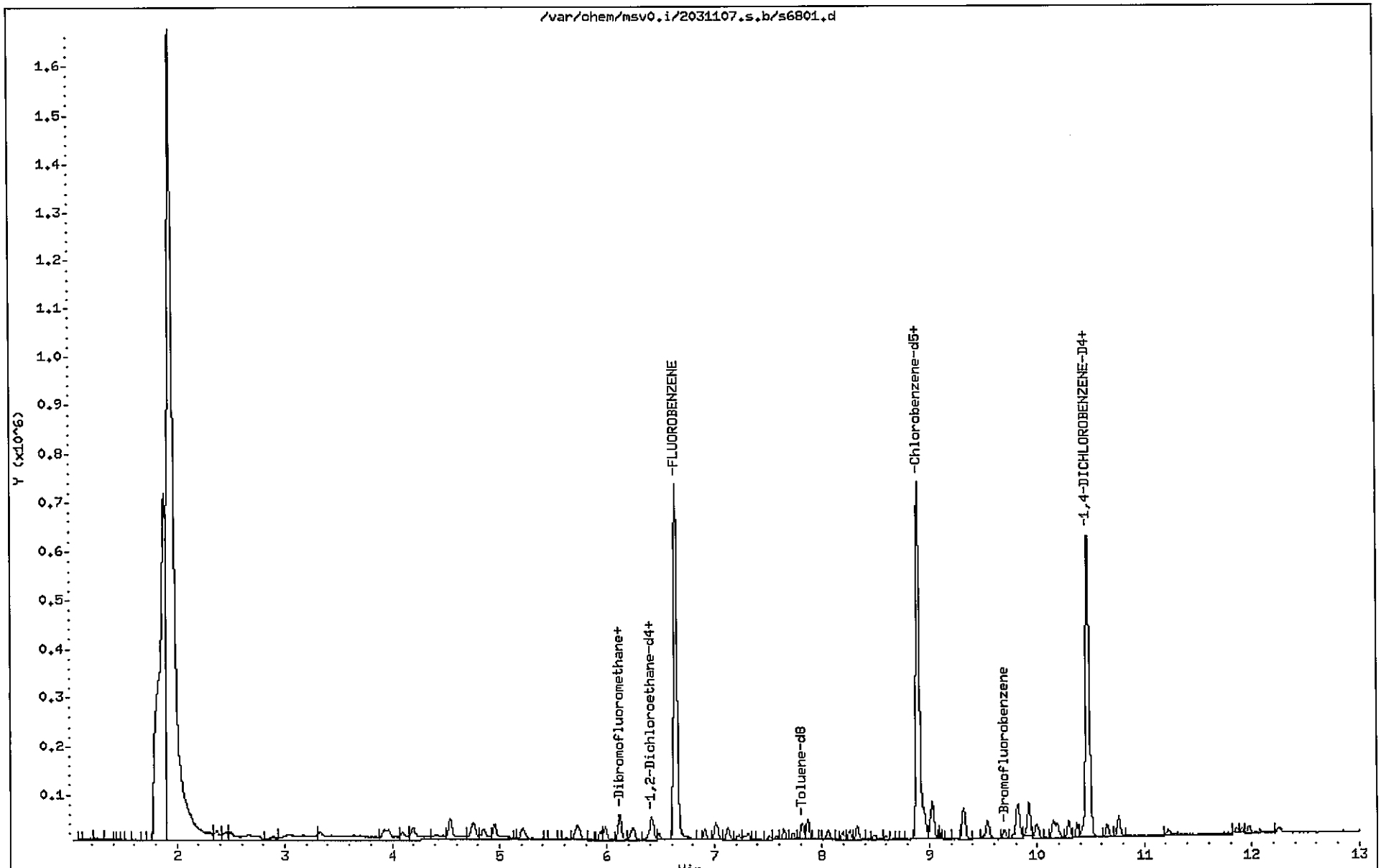
Data File: /var/chem/msv0.i/2031107.s.b/s6801.d
Date : 07-NOV-2003 09:17
Client ID: VOSTD002
Sample Info: 1206WVOSTD002W5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000200



Data File: /var/chem/msv0.i/2031107.s.b/s6817.d
Report Date: 18-Nov-2003 08:16

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-btex.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Misc Info: MSV~3945~*1*KRV

Client SDG: 2031107.s
Fraction: VOA
Client Smp ID: V0STD050
Operator: KRV
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
16 MTBE	50.0	56.7	113.41	80-120
33 Benzene	50.0	48.8	97.67	80-120
47 Toluene +	50.0	46.6	93.21	80-120
61 Ethylbenzene +	50.0	43.1	86.28	80-120
62 p,m-Xylene	100	86.9	86.86	80-120
63 o-Xylene	50.0	46.1	92.28	80-120
M 84 TOTAL XYLENE	150	133	88.67	80-120

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 25 Dibromofluorometha	50.0	53.6	107.14	70-130
$ 32 1,2-Dichloroethane	50.0	53.8	107.51	60-140
$ 46 Toluene-d8	50.0	49.6	99.10	65-128
$ 67 Bromofluorobenzene	50.0	43.6	87.29	73-138

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107.s.b/s6817.d
Lab Smp Id: ICV Client Smp ID: V0STD050
Inj Date : 07-NOV-2003 15:47
Operator : KRV Inst ID: msv0.i
Smp Info : ICV*V0STD050
Misc Info : MSV~3945~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107.s.b/8260Bs0.m
Meth Date : 18-Nov-2003 08:14 rsp Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.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/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	2.127	2.125	(0.320)	153212	49.8767	49.9	619
2 Chloromethane ++	50	2.364	2.356	(0.356)	209905	48.8604	48.9	6237
3 Vinyl Chloride +	62	2.490	2.487	(0.375)	169083	42.1257	42.1	4522
4 Bromomethane	94	2.904	2.889	(0.437)	77452	37.6355	37.6	7154
5 Chloroethane	64	3.042	3.034	(0.458)	100873	47.0081	47.0	4019
6 Trichlorofluoromethane	101	3.332	3.330	(0.502)	170206	47.7762	47.8	8180
7 Acrolein	56	3.925	3.916	(0.591)	86893	182.890	183	3544
9 1,1,2Trichlotrifluoroethane	101	3.931	3.922	(0.592)	140652	50.1200	50.1	4697
8 1,1-Dichloroethene +	96	3.971	3.962	(0.598)	117956	48.2491	48.2	8725
10 Acetone	43	4.096	4.087	(0.616)	137966	102.875	103	6529
11 Methyl Iodide	142	4.162	4.153	(0.626)	75223	33.4912	33.5	9306
12 Carbon Disulfide	76	4.201	4.199	(0.632)	344321	32.5054	32.5	8824
106 Methyl Acetate	43	4.412	4.410	(0.664)	228395	86.1733	86.2	1450

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.543	4.535	(0.684)	290230	59.7969	59.8	9475
14 Acrylonitrile	53	4.846	4.844	(0.729)	329630	286.614	287	6876(A)
15 trans-1,2-Dichloroethene	61	4.767	4.765	(0.718)	226418	50.9198	50.9	8849
16 MTBE	73	4.747	4.739	(0.715)	456305	56.7072	56.7	4304
17 Hexane	57	4.958	4.949	(0.746)	201682	36.0380	36.0	5136
19 Vinyl Acetate	43	4.958	4.949	(0.746)	151032	35.9668	36.0	
18 1,1-Dichloroethane ++	63	5.208	5.206	(0.784)	320561	50.7005	50.7	6268
22 2-Butanone	43	5.748	5.746	(0.865)	202374	91.9145	91.9	
21 cis-1,2-Dichloroethene	61	5.728	5.726	(0.862)	297120	51.7063	51.7	8240
20 2,2-Dichloropropane	77	5.709	5.706	(0.859)	236357	52.9402	52.9	8707
23 Bromochloromethane	128	5.939	5.937	(0.894)	73695	53.5587	53.6	8886
24 Chloroform +	83	5.985	5.983	(0.901)	279848	49.8676	49.9	9331
25 Dibromofluoromethane	111	6.123	6.121	(0.922)	158773	53.5715	53.6	9273
26 1,1,1-Trichloroethane	97	6.123	6.115	(0.922)	215944	49.4660	49.5	8774
105 Cyclohexane	56	6.117	6.115	(0.921)	271606	37.8145	37.8	9282
27 1,1-Dichloropropene	75	6.248	6.246	(0.941)	203973	48.3024	48.3	6849
28 Carbon Tetrachloride	117	6.229	6.227	(0.938)	163951	49.3375	49.3	8688
32 1,2-Dichloroethane-d4	67	6.420	6.417	(0.966)	89169	53.7549	53.8	6855
33 Benzene	78	6.420	6.417	(0.966)	617566	48.8326	48.8	8943
34 1,2-Dichloroethane	62	6.485	6.483	(0.976)	236802	54.9853	55.0	6411
35 FLUOROBENZENE	96	6.643	6.641	(1.000)	576124	50.0000		9405
36 Trichloroethene	130	6.920	6.911	(1.042)	138935	48.3493	48.3	9176
40 Methyl cyclohexane	83	7.025	7.016	(1.057)	213071	39.1876	39.2	5683
37 1,2-Dichloropropane +	63	7.131	7.122	(1.073)	190310	52.3001	52.3	8314
31 Total 1,2-Dichloroethene	61				523538	102.726	103	0
38 Dibromomethane	93	7.223	7.221	(1.087)	93454	54.9501	55.0	8803
39 Bromodichloromethane	83	7.315	7.313	(1.101)	220879	58.1194	58.1	9010
41 2-Chloroethyl vinyl ether	63	7.512	7.510	(1.131)	78463	54.9949	55.0	6787
42 1-Bromo-2-chloroethane	144	7.585	7.583	(1.142)	19904	52.3689	52.4	1355
44 cis-1,3-Dichloropropene	75	7.651	7.642	(1.152)	288469	55.3318	55.3	
45 4-methyl-2-pentanone	43	7.736	7.727	(1.164)	237455	58.1301	58.1	
46 Toluene-d8	98	7.822	7.813	(0.879)	548589	49.5521	49.6	8944
47 Toluene +	91	7.874	7.866	(0.885)	676795	46.6048	46.6	9297
51 trans-1,3-Dichloropropene	75	8.059	8.057	(0.905)	268460	49.8228	49.8	
52 1,1,2-Trichloroethane	97	8.204	8.201	(0.922)	133122	50.4249	50.4	8412
53 1,3-Dichloropropane	76	8.335	8.333	(0.936)	260945	49.4306	49.4	8500
54 Tetrachloroethene	164	8.263	8.254	(0.928)	97739	41.2362	41.2	5558
55 2-Hexanone	43	8.329	8.327	(0.936)	262639	68.9462	68.9	0(M)
56 Dibromochloromethane	129	8.487	8.485	(0.953)	138441	46.9710	47.0	8799
57 1,2-Dibromoethane(EDB)	107	8.605	8.596	(0.967)	127856	48.0957	48.1	5533
58 Chlorobenzene-d5	82	8.901	8.899	(1.000)	256749	50.0000		9100
59 Chlorobenzene ++	112	8.921	8.919	(1.002)	412492	45.3101	45.3	8657
60 1,1,1,2-Tetrachloroethane	133	8.974	8.965	(1.008)	131083	47.8739	47.9	8873
61 Ethylbenzene +	106	8.954	8.952	(1.006)	207792	43.1398	43.1	9374
62 p,m-Xylene	106	9.033	9.024	(1.015)	536379	86.8632	86.9	9354
63 o-Xylene	106	9.316	9.314	(1.047)	271332	46.1413	46.1	
64 Styrene	104	9.329	9.327	(1.048)	466098	43.5982	43.6	8545

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.507	9.505	(1.068)	87563	49.4024	49.4	8351
66 Isopropylbenzene	105	9.547	9.544	(1.072)	648089	43.3709	43.4	9237
67 Bromofluorobenzene	174	9.711	9.702	(1.091)	139336	43.6456	43.6	8320
68 1,1,2,2-Tetrachloroethane++	83	9.790	9.781	(0.933)	174629	50.9643	51.0	8999
69 trans-1,4-Dichloro-2-Butene	53	9.935	9.926	(0.947)	25804	46.3180	46.3	4522
70 1,2,3-Trichloropropane	75	9.836	9.834	(0.938)	240701	52.4624	52.5	6256
71 Bromobenzene	77	9.830	9.821	(0.937)	408986	47.1677	47.2	6791
72 n-Propylbenzene	91	9.830	9.821	(0.937)	867376	45.9257	45.9	7162(H)
73 2-Chlorotoluene	91	9.935	9.926	(0.947)	588907	46.5379	46.5	8823(H)
74 1,3,5-Trimethylbenzene	105	9.935	9.926	(0.947)	553190	42.4491	42.4	
75 4-Chlorotoluene	91	10.007	9.999	(0.954)	547697	44.6673	44.7	8680
76 tert-butylbenzene	91	10.165	10.150	(0.969)	401153	44.4409	44.4	9132
77 1,2,4-Trimethylbenzene	105	10.198	10.190	(0.972)	547624	44.8432	44.8	
78 sec-Butylbenzene	105	10.310	10.295	(0.983)	750608	44.8591	44.9	
79 p-Isopropyltoluene	119	10.389	10.374	(0.991)	571129	45.1628	45.2	9064
80 1,3-Dichlorobenzene	146	10.442	10.433	(0.996)	305655	50.1140	50.1	
81 1,4-DICHLOROBENZENE-D4	152	10.488	10.473	(1.000)	195717	50.0000		8419
82 1,4-Dichlorobenzene	146	10.501	10.492	(1.001)	285417	46.4865	46.5	
83 n-Butylbenzene	91	10.659	10.650	(1.016)	547742	46.4092	46.4	9327
85 1,2-Dichlorobenzene	146	10.771	10.756	(1.027)	261548	47.6506	47.7	
86 1,2-Dibromo-3-Chloropropane	157	11.317	11.295	(1.079)	26122	49.1999	49.2	5805
84 TOTAL XYLENE	106				807711	133.005	133	0
87 1,2,4-Trichlorobenzene	180	11.883	11.862	(1.133)	158979	47.6012	47.6	
88 Hexachlorobutadiene	225	11.936	11.914	(1.138)	93933	43.9838	44.0	9509
89 Napthalene	128	12.101	12.079	(1.154)	273434	47.9713	48.0	9035
90 1,2,3-Trichlorobenzene	180	12.278	12.257	(1.171)	144710	47.1023	47.1	

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.

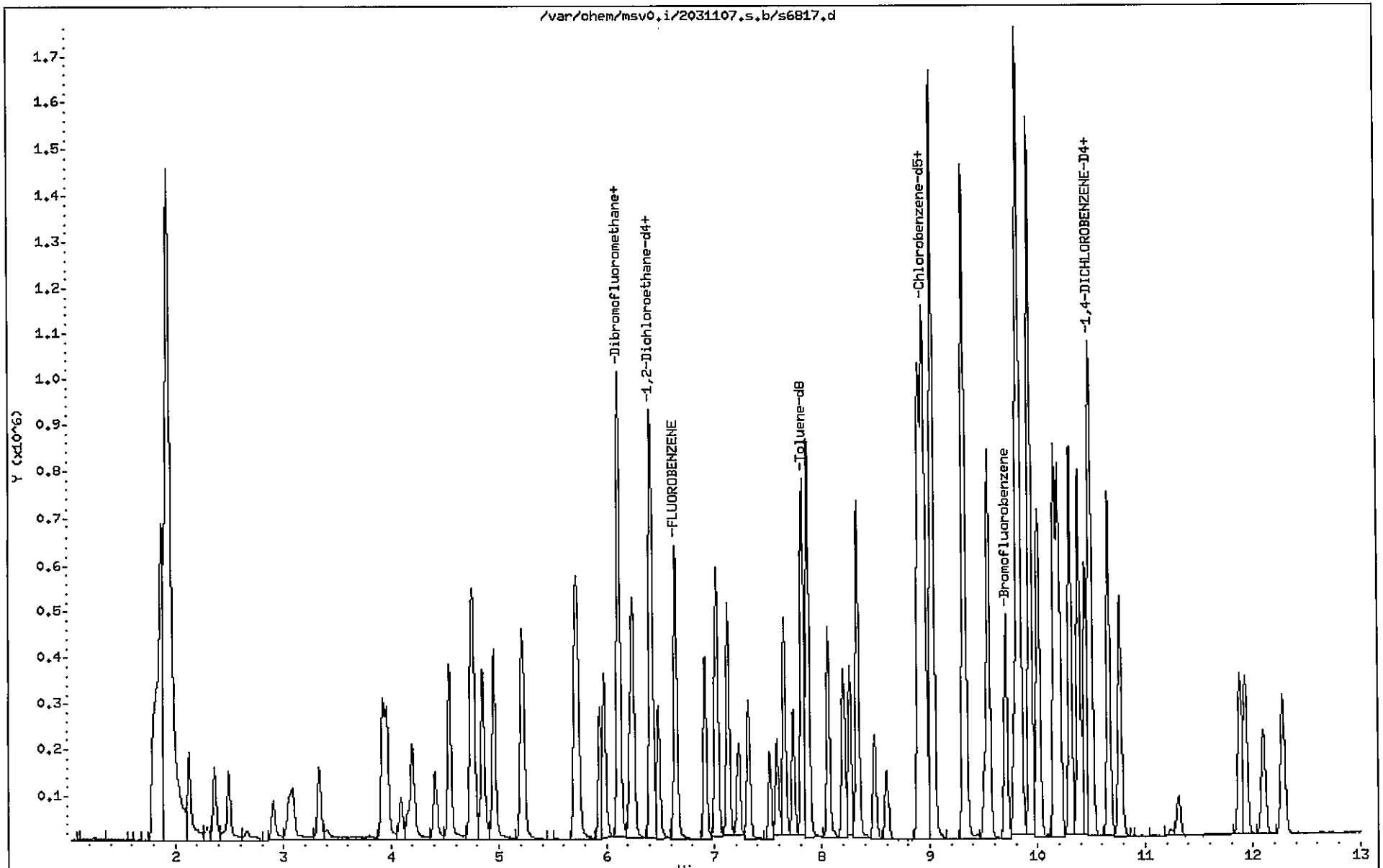
Data File: /var/chem/msv0.i/2031107.s.b/s6817.d
Date : 07-NOV-2003 15:47
Client ID: VOSTD050
Sample Info: ICVWVOSTD050

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

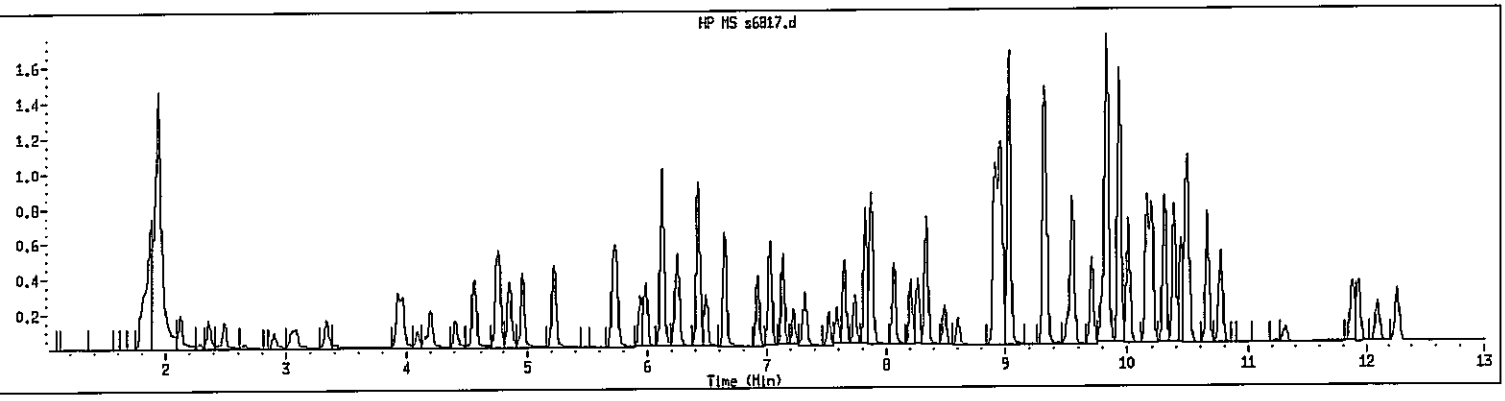
000205



Data file : /var/chem/msv0.i/2031107.s.b/s6817.d
Report Date: 11/18/2003 08:16

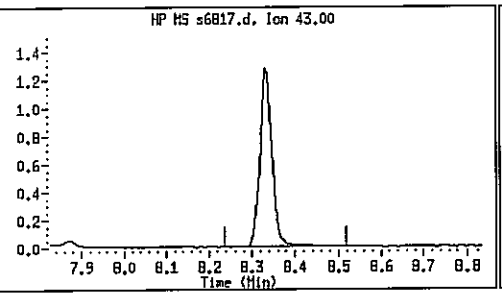
MANUAL INTEGRATION GRAPHIC REPORT

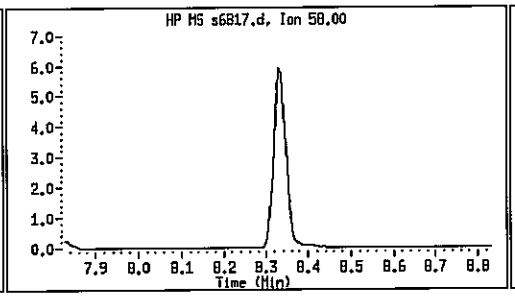
Lab ID	: ICV	SampleType	: LCS
Injection Date	: 07-NOV-2003 15:47	Instrument	: msv0.i
Operator	: KRV		
Sample Info	: ICV*V0STD050		
Misc Info	: MSV~3945~*1*KRV		
Method	: /var/chem/msv0.i/2031107.s.b/8260Bs0.m		
Dilution	: 1.0		
Matrix	: SOIL		
Integrator	: HP RTE	Compound Sublist	: 8260b

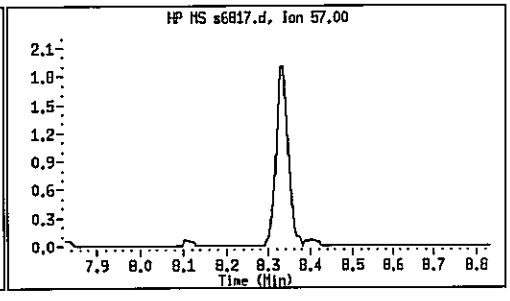


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
55 2-Hexanone			CAS#: 591-78-6				
8.329	0.936	43	262639	69	69	80-120	100
8.327	0.935	58	0			38- 57	0
8.327	0.935	57	0			12- 19	0







Data File: /var/chem/msv0.i/2031107p.s.b/s6818.d

Date : 07-NOV-2003 16:12

Client ID: V0BFB

Instrument: msv0.i

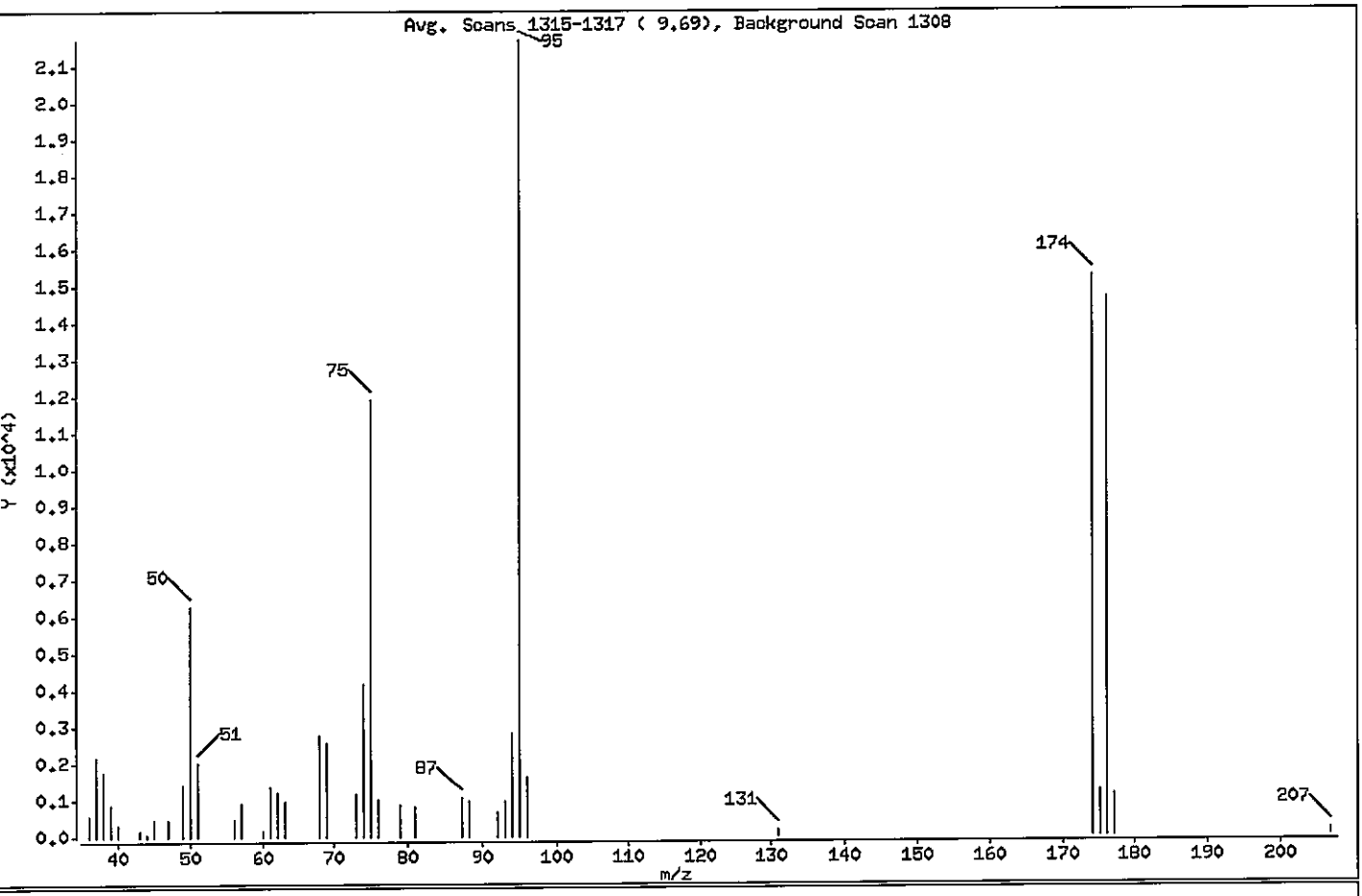
Sample Info: 1000MV0BFB

Operator: KRV

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	28.85
75	30.00 - 60.00% of mass 95	54.81
96	5.00 - 9.00% of mass 95	7.35
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	70.18
175	5.00 - 9.00% of mass 174	5.47 (7.80)
176	95.00 - 101.00% of mass 174	67.61 (96.33)
177	5.00 - 9.00% of mass 176	5.07 (7.49)

Data File: /var/chem/msv0.i/2031107p.s.b/s6818.d

Date : 07-NOV-2003 16:12

Client ID: V0BFB

Instrument: msv0.i

Sample Info: 1000XV0BFB

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6818.d

Spectrum: Avg. Scans 1315-1317 (9.69), Background Scan 1308

Location of Maximum: 95.00

Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	561	50.00	6266	73.00	1144	94.00	2808
37.00	2137	51.00	1977	74.00	4173	95.00	21712
38.00	1735	56.00	474	75.00	11903	96.00	1597
39.00	841	57.00	904	76.00	1000	131.00	134
40.00	277	60.00	144	79.00	844	174.00	15242
43.00	143	61.00	1350	81.00	791	175.00	1189
44.00	34	62.00	1182	87.00	1027	176.00	14682
45.00	472	63.00	936	88.00	948	177.00	1100
47.00	470	68.00	2770	92.00	656	207.00	134
49.00	1398	69.00	2563	93.00	969		

Data File: /var/chem/msv0.i/2031107p.s.b/s6818.d

Date : 07-NOV-2003 16:12

Client ID: VOBFB

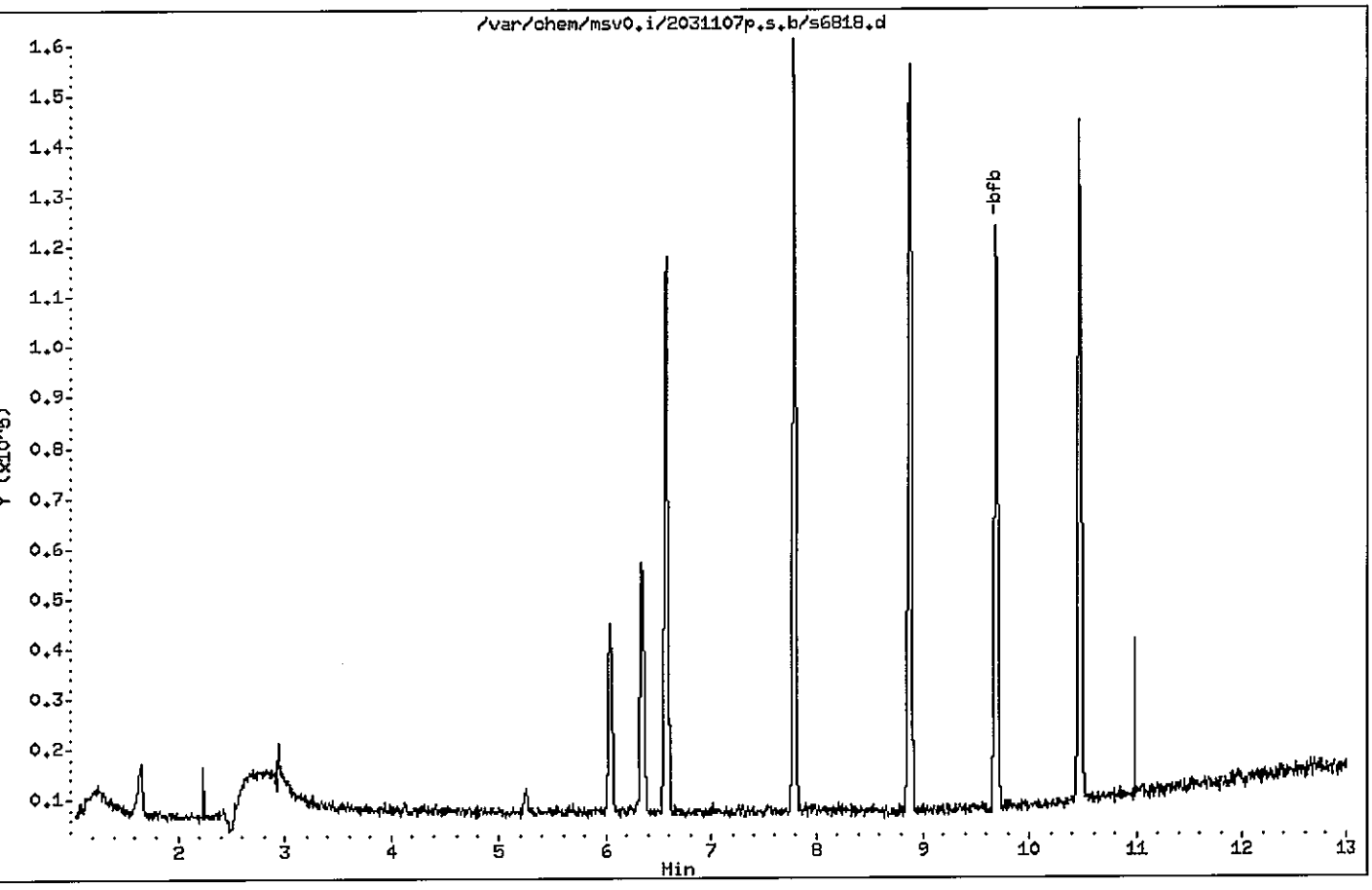
Instrument: msv0.i

Sample Info: 1000MVOBFB

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6819.d
Lab Smp Id: 1400 Client Smp ID: V0STD050
Inj Date : 07-NOV-2003 16:47
Operator : KRV Inst ID: msv0.i
Smp Info : 1400*V0STD050*5-5-5
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:25 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 5 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	2.128	2.128	(0.320)	177689	50.0000	55.8	616
2 Chloromethane ++	50	2.365	2.365	(0.356)	282628	50.0000	63.5	6237
3 Vinyl Chloride +	62	2.490	2.490	(0.375)	232965	50.0000	56.0	4517
4 Bromomethane	94	2.911	2.911	(0.438)	126104	50.0000	59.1	7005
5 Chloroethane	64	3.049	3.049	(0.459)	134748	50.0000	61.4	4019
6 Trichlorofluoromethane	101	3.332	3.332	(0.502)	208925	50.0000	56.6	8122
7 Acrolein	56	3.925	3.925	(0.591)	146514	250.000	297	3544(A)
9 1,1,2Trichlotrifluoroethane	101	3.931	3.931	(0.592)	164337	50.0000	56.5	4607
8 1,1-Dichloroethene +	96	3.971	3.971	(0.598)	140527	50.0000	55.4	8723
10 Acetone	43	4.096	4.096	(0.617)	82367	50.0000	53.3	6529
11 Methyl Iodide	142	4.162	4.162	(0.626)	117548	50.0000	50.5	9365
12 Carbon Disulfide	76	4.201	4.201	(0.632)	622362	50.0000	56.7	8836
106 Methyl Acetate	43	4.412	4.412	(0.664)	149734	50.0000	54.5	1561

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.544	4.544	(0.684)	288966	50.0000	57.2	9500
14 Acrylonitrile	53	4.846	4.846	(0.729)	349616	250.000	293	6875(A)
15 trans-1,2-Dichloroethene	61	4.768	4.768	(0.718)	258846	50.0000	56.1	8849
16 MTBE	73	4.748	4.748	(0.715)	460612	50.0000	55.2	4288
17 Hexane	57	4.958	4.958	(0.746)	338381	50.0000	58.3	5102
19 Vinyl Acetate	43	4.958	4.958	(0.746)	248239	50.0000	57.0	
18 1,1-Dichloroethane ++	63	5.209	5.209	(0.784)	357696	50.0000	54.6	6258
22 2-Butanone	43	5.748	5.748	(0.865)	121869	50.0000	51.6	
21 cis-1,2-Dichloroethene	61	5.729	5.729	(0.862)	328326	50.0000	55.1	8240
20 2,2-Dichloropropane	77	5.709	5.709	(0.859)	258704	50.0000	55.9	8669
23 Bromochloromethane	128	5.939	5.939	(0.894)	77222	50.0000	54.1	8923
24 Chloroform +	83	5.985	5.985	(0.901)	303522	50.0000	52.2	9326
25 Dibromofluoromethane	111	6.124	6.124	(0.922)	163880	50.0000	53.3	9319
26 1,1,1-Trichloroethane	97	6.124	6.124	(0.922)	249778	50.0000	55.2	8802
105 Cyclohexane	56	6.117	6.117	(0.921)	411480	50.0000	55.3	9286
27 1,1-Dichloropropene	75	6.249	6.249	(0.941)	239333	50.0000	54.7	6815
28 Carbon Tetrachloride	117	6.229	6.229	(0.938)	184703	50.0000	53.6	8675
32 1,2-Dichloroethane-d4	67	6.426	6.426	(0.967)	88489	50.0000	51.5	6983
33 Benzene	78	6.420	6.420	(0.966)	717898	50.0000	54.8	9047
34 1,2-Dichloroethane	62	6.486	6.486	(0.976)	237055	50.0000	53.1	6411
35 FLUOROBENZENE	96	6.644	6.644	(1.000)	597332	50.0000		9335
36 Trichloroethene	130	6.914	6.914	(1.041)	163164	50.0000	54.8	9184
40 Methyl cyclohexane	83	7.019	7.019	(1.056)	318238	50.0000	56.5	5678
37 1,2-Dichloropropane +	63	7.131	7.131	(1.073)	202917	50.0000	53.8	8366
31 Total 1,2-Dichloroethene	61				587172	100.000	111	0
38 Dibromomethane	93	7.223	7.223	(1.087)	95355	50.0000	54.1	8880
39 Bromodichloromethane	83	7.315	7.315	(1.101)	215033	50.0000	54.6	9088
41 2-Chloroethyl vinyl ether	63	7.513	7.513	(1.131)	82152	50.0000	55.5	6808
42 1-Bromo-2-chloroethane	144	7.585	7.585	(1.142)	22128	50.0000	56.2	1355
44 cis-1,3-Dichloropropene	75	7.644	7.644	(1.151)	295252	50.0000	54.6	
45 4-methyl-2-pentanone	43	7.730	7.730	(1.163)	225383	50.0000	53.2	
46 Toluene-d8	98	7.822	7.822	(0.879)	570030	50.0000	47.7	8948
47 Toluene +	91	7.868	7.868	(0.884)	733658	50.0000	46.8	9267
51 trans-1,3-Dichloropropene	75	8.059	8.059	(0.905)	272549	50.0000	46.8	
52 1,1,2-Trichloroethane	97	8.204	8.204	(0.922)	130261	50.0000	45.7	8349
53 1,3-Dichloropropane	76	8.335	8.335	(0.936)	264822	50.0000	46.4	8606
54 Tetrachloroethene	164	8.263	8.263	(0.928)	120769	50.0000	47.2	5557
55 2-Hexanone	43	8.329	8.329	(0.936)	179659	50.0000	43.6	5573
56 Dibromochloromethane	129	8.487	8.487	(0.953)	145472	50.0000	45.7	8924
57 1,2-Dibromoethane(EDB)	107	8.605	8.605	(0.967)	131963	50.0000	45.9	5533
58 Chlorobenzene-d5	82	8.902	8.902	(1.000)	277427	50.0000		9017
59 Chlorobenzene ++	112	8.921	8.921	(1.002)	455656	50.0000	46.3	8717
60 1,1,1,2-Tetrachloroethane	133	8.974	8.974	(1.008)	134171	50.0000	45.3	8928
61 Ethylbenzene +	106	8.954	8.954	(1.006)	241361	50.0000	46.4	9383
62 p,m-Xylene	106	9.033	9.033	(1.015)	620013	100.000	92.9	9401
63 o-Xylene	106	9.316	9.316	(1.047)	299250	50.0000	47.1	
64 Styrene	104	9.330	9.330	(1.048)	535577	50.0000	46.4	8626

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.507	9.507	(1.068)	88654	50.0000	46.3	8364
66 Isopropylbenzene	105	9.547	9.547	(1.072)	758341	50.0000	47.0	9288
67 Bromofluorobenzene	174	9.705	9.705	(1.090)	161924	50.0000	46.9	8294
68 1,1,2,2-Tetrachloroethane++	83	9.790	9.790	(0.934)	168276	50.0000	49.1	9077
69 trans-1,4-Dichloro-2-Butene	53	9.935	9.935	(0.948)	28721	50.0000	51.5	4551
70 1,2,3-Trichloropropane	75	9.836	9.836	(0.938)	225493	50.0000	49.1	6314
71 Bromobenzene	77	9.830	9.830	(0.938)	423881	50.0000	48.8	6814
72 n-Propylbenzene	91	9.830	9.830	(0.938)	997659	50.0000	52.8	7384(H)
73 2-Chlorotoluene	91	9.935	9.935	(0.948)	637358	50.0000	50.3	8846(H)
74 1,3,5-Trimethylbenzene	105	9.935	9.935	(0.948)	635588	50.0000	48.7	
75 4-Chlorotoluene	91	10.008	10.008	(0.955)	620265	50.0000	50.5	8666
76 tert-butylbenzene	91	10.159	10.159	(0.969)	440530	50.0000	48.8	9149
77 1,2,4-Trimethylbenzene	105	10.198	10.198	(0.973)	605355	50.0000	49.5	
78 sec-Butylbenzene	105	10.304	10.304	(0.983)	826884	50.0000	49.4	
79 p-Isopropyltoluene	119	10.383	10.383	(0.991)	629727	50.0000	49.8	9095
80 1,3-Dichlorobenzene	146	10.442	10.442	(0.996)	317634	50.0000	52.0	
81 1,4-DICHLOROBENZENE-D4	152	10.482	10.482	(1.000)	195883	50.0000		8515
82 1,4-Dichlorobenzene	146	10.501	10.501	(1.002)	305133	50.0000	49.7	
83 n-Butylbenzene	91	10.659	10.659	(1.017)	607088	50.0000	51.4	9303
85 1,2-Dichlorobenzene	146	10.765	10.765	(1.027)	269927	50.0000	49.1	
86 1,2-Dibromo-3-Chloropropane	157	11.311	11.311	(1.079)	26032	50.0000	49.0	5734
84 TOTAL XYLENE	106				919263	150.000	140	0
87 1,2,4-Trichlorobenzene	180	11.877	11.877	(1.133)	170544	50.0000	51.0	
88 Hexachlorobutadiene	225	11.930	11.930	(1.138)	105454	50.0000	49.3	9504
89 Napthalene	128	12.094	12.094	(1.154)	279734	50.0000	49.0	9004
90 1,2,3-Trichlorobenzene	180	12.272	12.272	(1.171)	154346	50.0000	50.2	

QC Flag Legend

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

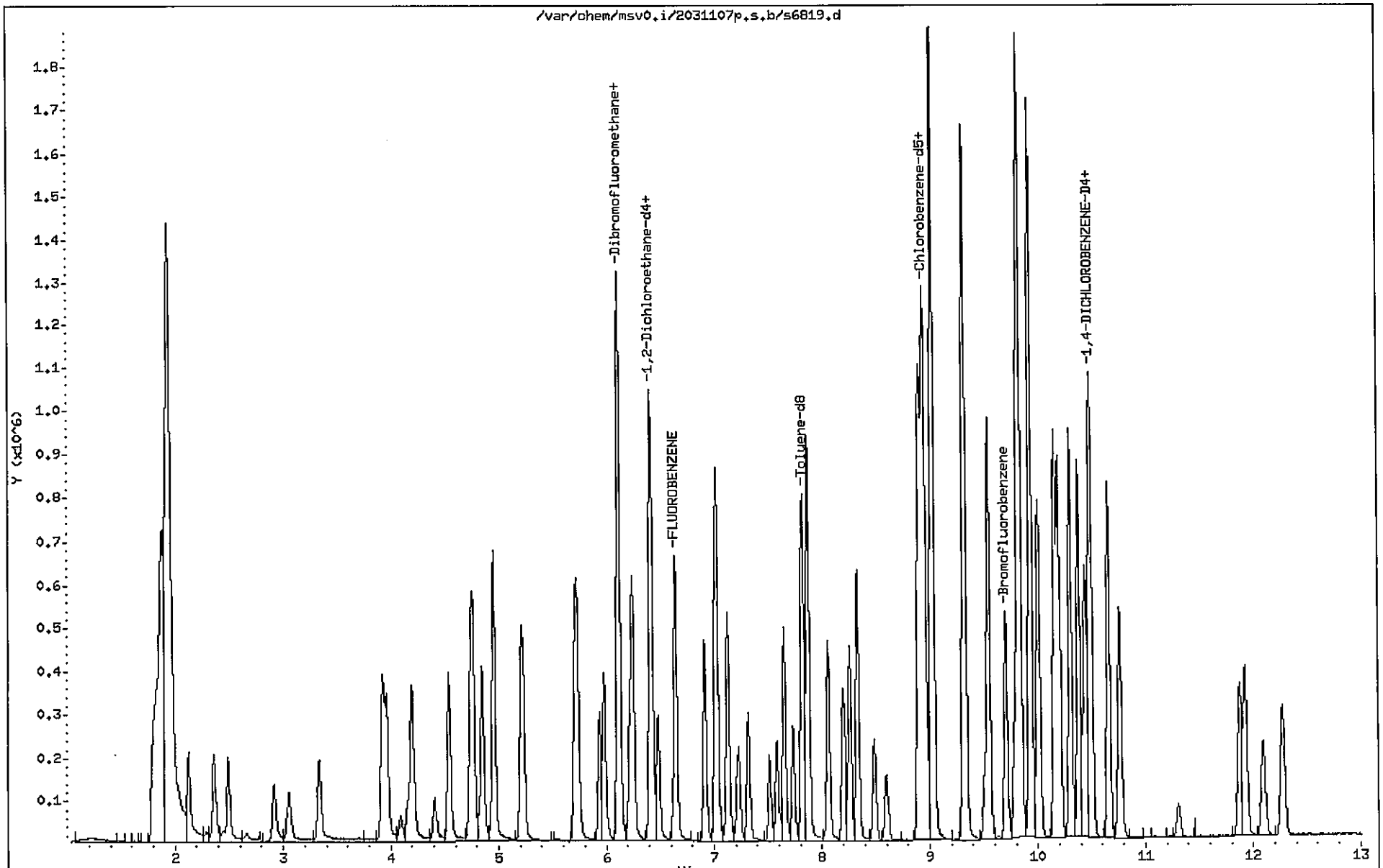
Data File: /var/chem/msv0.i/2031107p.s.b/s6819.d
Date : 07-NOV-2003 16:47
Client ID: VOSTD050
Sample Info: 1400*VOSTD050*5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000213



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Date : 08-NOV-2003 08:13

Client ID: V0BFB01

Instrument: msv0.i

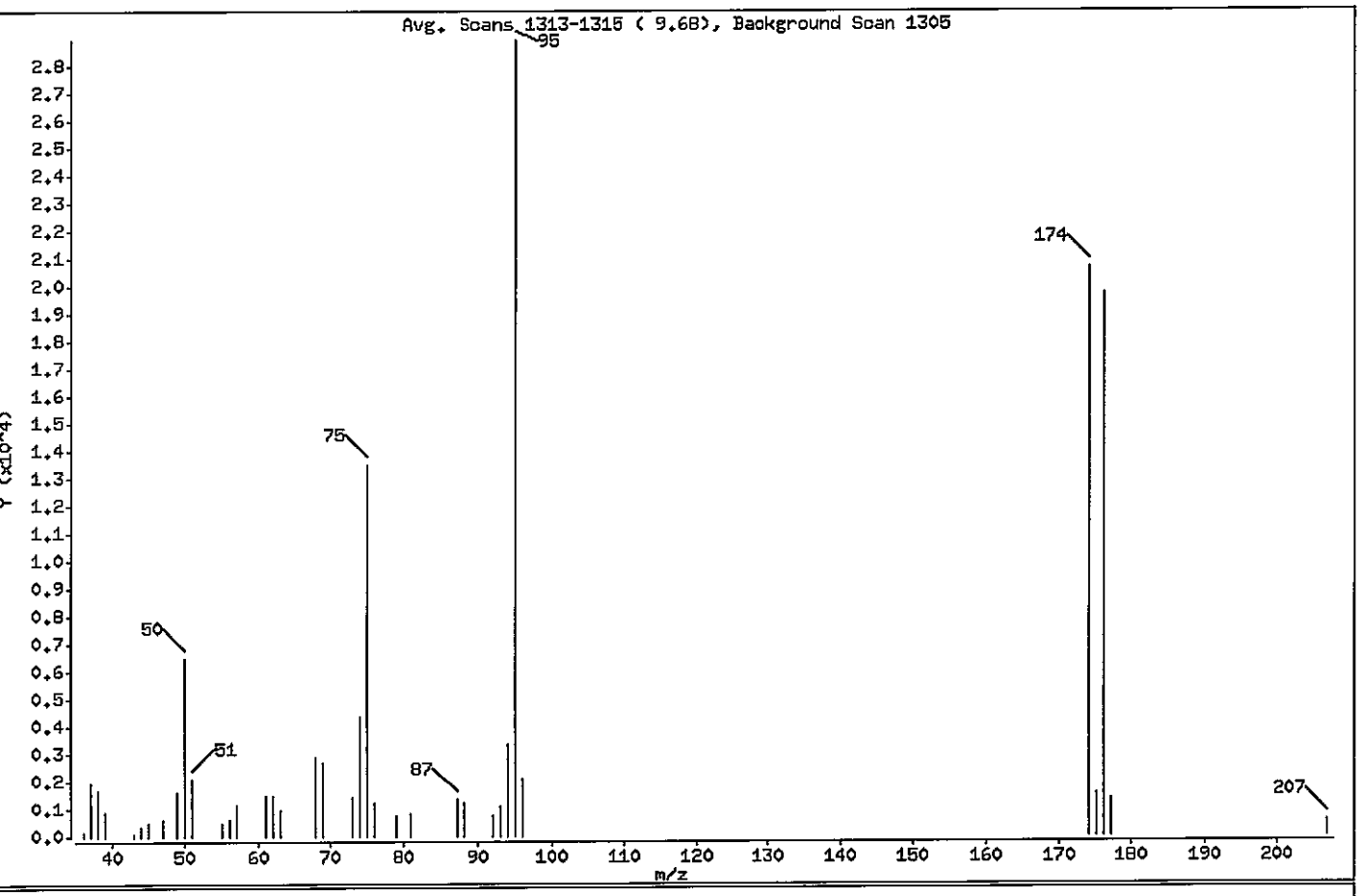
Sample Info: 1000XV0BFB01

Operator: KRV

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	22.29
75	30.00 - 60.00% of mass 95	46.65
96	5.00 - 9.00% of mass 95	7.21
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	71.32
175	5.00 - 9.00% of mass 174	5.21 (7.30)
176	95.00 - 101.00% of mass 174	68.16 (95.57)
177	5.00 - 9.00% of mass 176	4.57 (6.70)

Data File: /var/chem/msv0.i/2031108.s.b/s6848.d

Date : 08-NOV-2003 08:13

Client ID: V0BFB01

Instrument: msv0.i

Sample Info: 1000xV0BFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s6848.d

Spectrum: Avg. Scans 1313-1315 (9.68), Background Scan 1305

Location of Maximum: 95.00

Number of points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	160	51.00	2058	74.00	4316	95.00	28928
37.00	1919	55.00	489	75.00	13496	96.00	2086
38.00	1657	56.00	581	76.00	1194	174.00	20632
39.00	835	57.00	1107	79.00	729	175.00	1507
43.00	62	61.00	1453	81.00	813	176.00	19712
44.00	331	62.00	1436	87.00	1324	177.00	1322
45.00	481	63.00	960	88.00	1177	207.00	540
47.00	625	68.00	2896	92.00	745		
49.00	1579	69.00	2658	93.00	1096		
50.00	6449	73.00	1420	94.00	3307		

Data File: /var/chem/msv0.i/2031108.s.b/s6848.d

Date : 08-NOV-2003 08:13

Client ID: V0BFB01

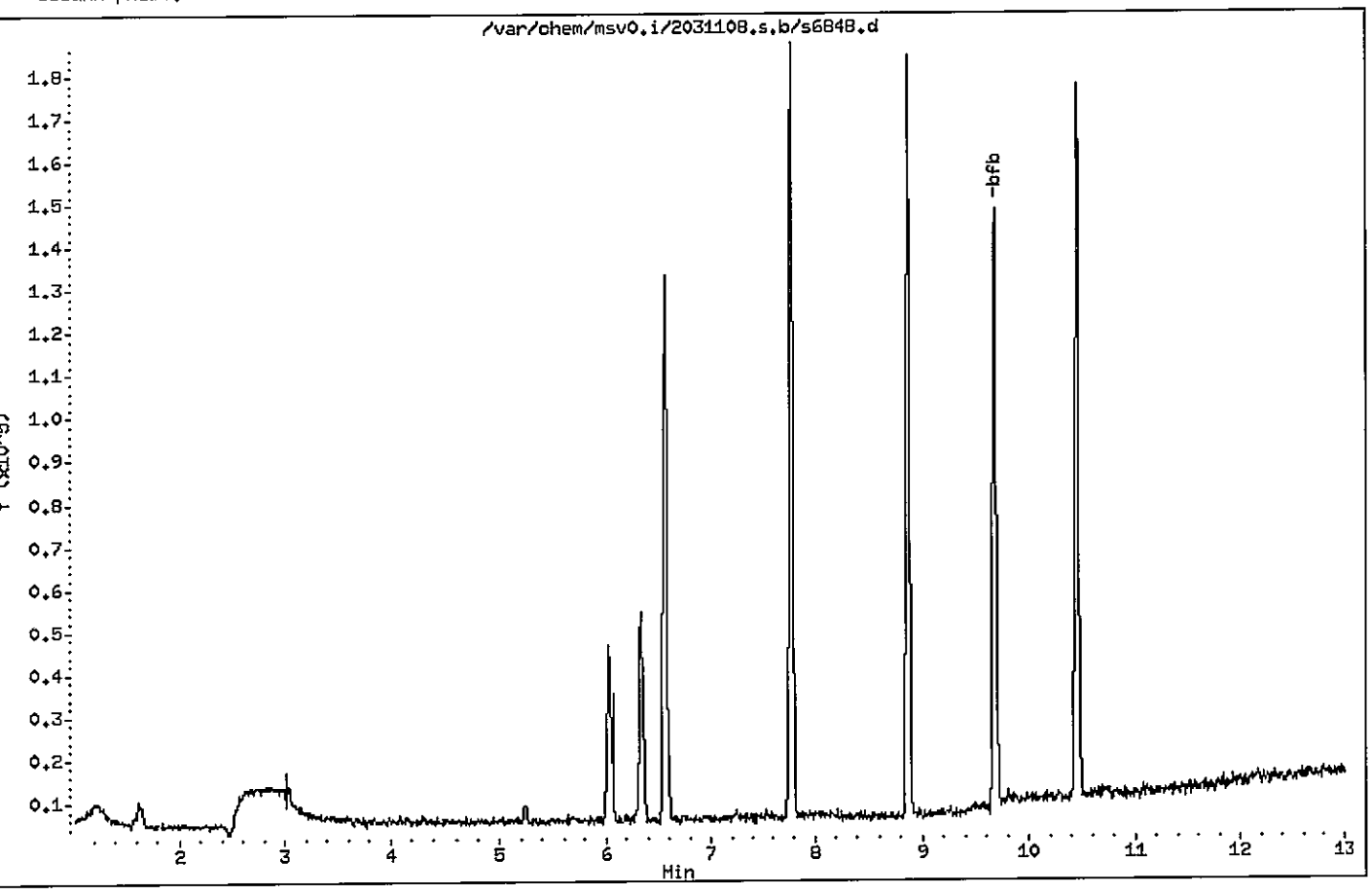
Instrument: msv0.i

Sample Info: 1000MV0BFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6849.d
Lab Smp Id: 1400 Client Smp ID: V0STD050
Inj Date : 08-NOV-2003 08:49
Operator : KRV Inst ID: msv0.i
Smp Info : 1400*V0STD050*5-5-5
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:53 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/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	2.135	2.135	(0.322)	152281	50.0000	46.8	593
2 Chloromethane ++	50	2.366	2.366	(0.356)	220371	50.0000	48.4	6237
3 Vinyl Chloride +	62	2.497	2.497	(0.376)	200849	50.0000	47.2	4523
4 Bromomethane	94	2.919	2.919	(0.440)	108174	50.0000	49.6	7033
5 Chloroethane	64	3.057	3.057	(0.460)	114119	50.0000	50.4	4019
6 Trichlorofluoromethane	101	3.340	3.340	(0.503)	179063	50.0000	47.5	8107
7 Acrolein	56	3.919	3.919	(0.590)	125452	250.000	249	3497(A)
9 1,1,2Trichlotrifluoroethane	101	3.932	3.932	(0.592)	143814	50.0000	48.4	4581
8 1,1-Dichloroethene +	96	3.965	3.965	(0.597)	121243	50.0000	46.8	8756
10 Acetone	43	4.090	4.090	(0.616)	76273	50.0000	47.0	6493
11 Methyl Iodide	142	4.156	4.156	(0.626)	104879	50.0000	44.1	9296
12 Carbon Disulfide	76	4.202	4.202	(0.633)	530706	50.0000	47.3	8836
106 Methyl Acetate	43	4.406	4.406	(0.664)	122029	50.0000	43.5	1504

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
13 Methylene Chloride	49	4.538	4.538	(0.684)	232064	50.0000	43.8	9427
14 Acrylonitrile	53	4.841	4.841	(0.729)	283667	250.000	233	6875(A)
15 trans-1,2-Dichloroethene	61	4.762	4.762	(0.717)	224814	50.0000	47.7	8849
16 MTBE	73	4.742	4.742	(0.714)	392971	50.0000	46.1	4263
17 Hexane	57	4.953	4.953	(0.746)	316484	50.0000	53.4	5137
19 Vinyl Acetate	43	4.953	4.953	(0.746)	224989	50.0000	50.6	
18 1,1-Dichloroethane ++	63	5.209	5.209	(0.785)	339714	50.0000	50.7	6104
22 2-Butanone	43	5.736	5.736	(0.864)	115787	50.0000	47.7	
21 cis-1,2-Dichloroethene	61	5.723	5.723	(0.862)	307184	50.0000	50.5	8237
20 2,2-Dichloropropane	77	5.703	5.703	(0.859)	237610	50.0000	50.3	8722
23 Bromochloromethane	128	5.934	5.934	(0.894)	83054	50.0000	57.0	9290
24 Chloroform +	83	5.980	5.980	(0.901)	282904	50.0000	47.6	9139
25 Dibromofluoromethane	111	6.118	6.118	(0.922)	160808	50.0000	51.2	9462
26 1,1,1-Trichloroethane	97	6.118	6.118	(0.922)	225369	50.0000	48.7	8830
105 Cyclohexane	56	6.111	6.111	(0.921)	404830	50.0000	53.2	9425
27 1,1-Dichloropropene	75	6.243	6.243	(0.940)	234549	50.0000	52.4	6750
28 Carbon Tetrachloride	117	6.223	6.223	(0.938)	179864	50.0000	51.1	8953
32 1,2-Dichloroethane-d4	67	6.414	6.414	(0.966)	80137	50.0000	45.6	6846
33 Benzene	78	6.414	6.414	(0.966)	725748	50.0000	54.2	9078
34 1,2-Dichloroethane	62	6.473	6.473	(0.975)	202684	50.0000	44.4	6411
35 FLUOROBENZENE	96	6.638	6.638	(1.000)	610171	50.0000		9605
36 Trichloroethene	130	6.908	6.908	(1.041)	175876	50.0000	57.8	9149
40 Methyl cyclohexane	83	7.013	7.013	(1.057)	329533	50.0000	57.2	5664
37 1,2-Dichloropropane +	63	7.119	7.119	(1.072)	205751	50.0000	53.4	8618
31 Total 1,2-Dichloroethene	61				531998	100.000	98.6	0
38 Dibromomethane	93	7.217	7.217	(1.087)	91948	50.0000	51.0	9192
39 Bromodichloromethane	83	7.309	7.309	(1.101)	202567	50.0000	50.3	9273
41 2-Chloroethyl vinyl ether	63	7.507	7.507	(1.131)	37948	50.0000	25.1	6826
42 1-Bromo-2-chloroethane	144	7.573	7.573	(1.141)	23408	50.0000	58.2	1355
44 cis-1,3-Dichloropropene	75	7.639	7.639	(1.151)	295918	50.0000	53.6	
45 4-methyl-2-pentanone	43	7.724	7.724	(1.164)	217169	50.0000	50.2	
46 Toluene-d8	98	7.810	7.810	(0.879)	591517	50.0000	51.8	8594
47 Toluene +	91	7.862	7.862	(0.884)	743492	50.0000	49.6	9115
51 trans-1,3-Dichloropropene	75	8.047	8.047	(0.905)	266175	50.0000	47.9	
52 1,1,2-Trichloroethane	97	8.192	8.192	(0.922)	133837	50.0000	49.2	8327
53 1,3-Dichloropropane	76	8.323	8.323	(0.936)	262783	50.0000	48.3	8636
54 Tetrachloroethene	164	8.251	8.251	(0.928)	126581	50.0000	51.8	5478
55 2-Hexanone	43	8.323	8.323	(0.936)	173922	50.0000	44.3	0(M)
56 Dibromochloromethane	129	8.481	8.481	(0.954)	148987	50.0000	49.0	9083
57 1,2-Dibromoethane(EDB)	107	8.593	8.593	(0.967)	138433	50.0000	50.5	5533
58 Chlorobenzene-d5	82	8.889	8.889	(1.000)	264754	50.0000		8815
59 Chlorobenzene ++	112	8.909	8.909	(1.002)	471409	50.0000	50.2	8883
60 1,1,1,2-Tetrachloroethane	133	8.962	8.962	(1.008)	139256	50.0000	49.3	9225
61 Ethylbenzene +	106	8.942	8.942	(1.006)	242377	50.0000	48.8	9400
62 p,m-Xylene	106	9.021	9.021	(1.015)	652807	100.000	103	9320
63 o-Xylene	106	9.311	9.311	(1.047)	305590	50.0000	50.4	
64 Styrene	104	9.317	9.317	(1.048)	548739	50.0000	49.8	8830

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
65 Bromoform ++	173	9.495	9.495	(1.068)	89034	50.0000	48.7	8441
66 Isopropylbenzene	105	9.535	9.535	(1.073)	765492	50.0000	49.7	9425
67 Bromofluorobenzene	174	9.693	9.693	(1.090)	168716	50.0000	51.3	8621
68 1,1,2,2-Tetrachloroethane++	83	9.772	9.772	(0.934)	166075	50.0000	46.2	9326
69 trans-1,4-Dichloro-2-Butene	53	9.923	9.923	(0.948)	25196	50.0000	43.2	4482
70 1,2,3-Trichloropropane	75	9.824	9.824	(0.939)	210857	50.0000	43.8	6382
71 Bromobenzene	77	9.818	9.818	(0.938)	403551	50.0000	44.4	7135
72 n-Propylbenzene	91	9.811	9.811	(0.938)	978756	50.0000	49.4	7737
73 2-Chlorotoluene	91	9.916	9.916	(0.948)	604342	50.0000	45.6	8963
74 1,3,5-Trimethylbenzene	105	9.923	9.923	(0.948)	641313	50.0000	47.0	
75 4-Chlorotoluene	91	9.995	9.995	(0.955)	574380	50.0000	44.7	8663
76 tert-butylbenzene	91	10.147	10.147	(0.970)	421958	50.0000	44.6	9042
77 1,2,4-Trimethylbenzene	105	10.180	10.180	(0.973)	619160	50.0000	48.4	
78 sec-Butylbenzene	105	10.285	10.285	(0.983)	844686	50.0000	48.2	
79 p-Isopropyltoluene	119	10.371	10.371	(0.991)	666393	50.0000	50.3	9311
80 1,3-Dichlorobenzene	146	10.423	10.423	(0.996)	327367	50.0000	51.2	
81 1,4-DICHLOROBENZENE-D4	152	10.463	10.463	(1.000)	205125	50.0000		8907
82 1,4-Dichlorobenzene	146	10.482	10.482	(1.002)	311935	50.0000	48.5	
83 n-Butylbenzene	91	10.640	10.640	(1.017)	617096	50.0000	49.9	9310
85 1,2-Dichlorobenzene	146	10.752	10.752	(1.028)	278021	50.0000	48.3	
86 1,2-Dibromo-3-Chloropropane	157	11.292	11.292	(1.079)	26580	50.0000	47.8	5828
84 TOTAL XYLENE	106				958397	150.000	153	0
87 1,2,4-Trichlorobenzene	180	11.852	11.852	(1.133)	181703	50.0000	51.9	
88 Hexachlorobutadiene	225	11.904	11.904	(1.138)	112405	50.0000	50.2	9669
89 Napthalene	128	12.069	12.069	(1.154)	307038	50.0000	51.4	9298
90 1,2,3-Trichlorobenzene	180	12.247	12.247	(1.171)	164111	50.0000	51.0	

QC Flag Legend

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

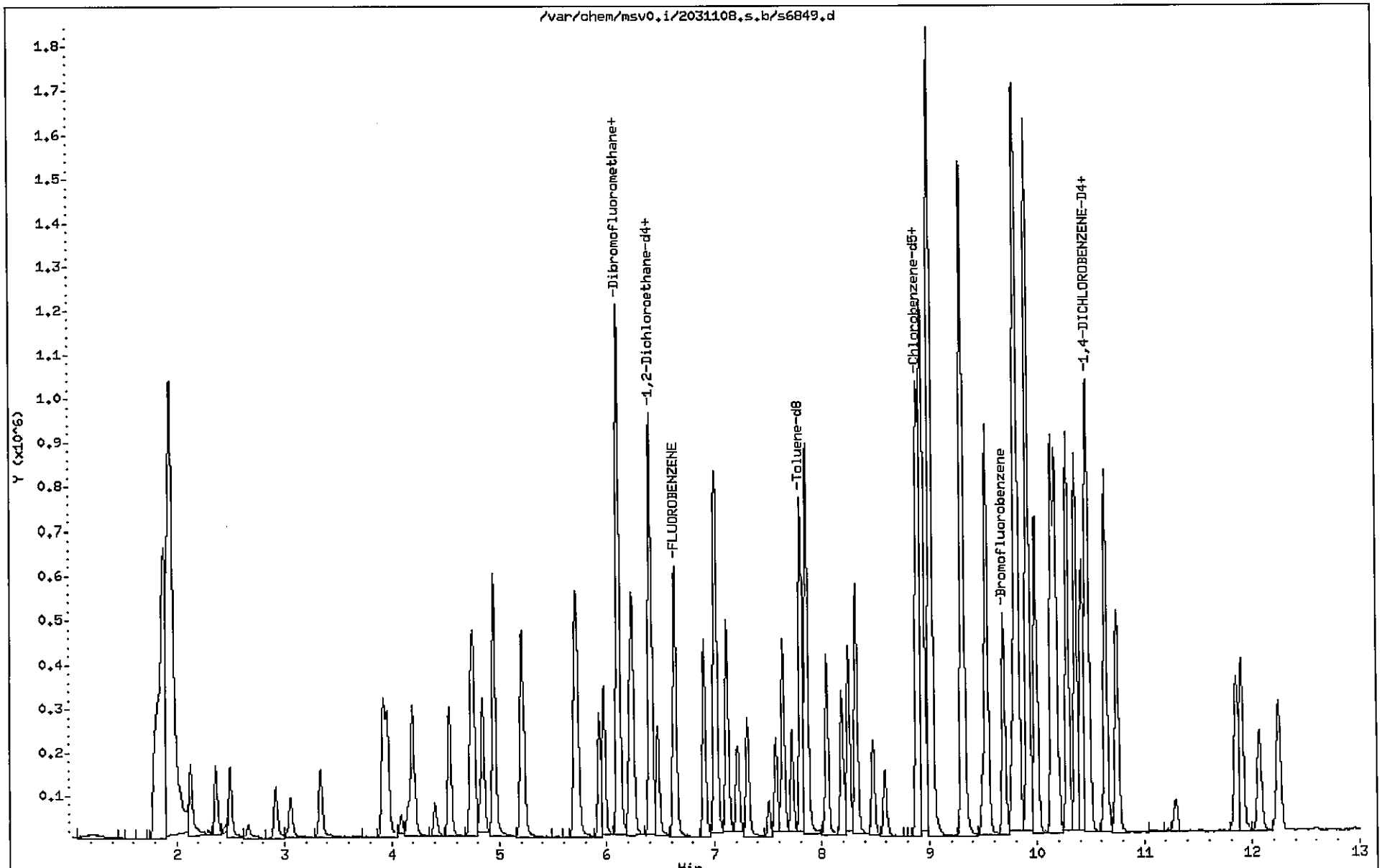
Data File: /var/chem/msv0.i/2031108.s.b/s6849.d
Date : 08-NOV-2003 08:49
Client ID: VOSTD050
Sample Info: 1400MVOSTD050M5-5-5

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000220

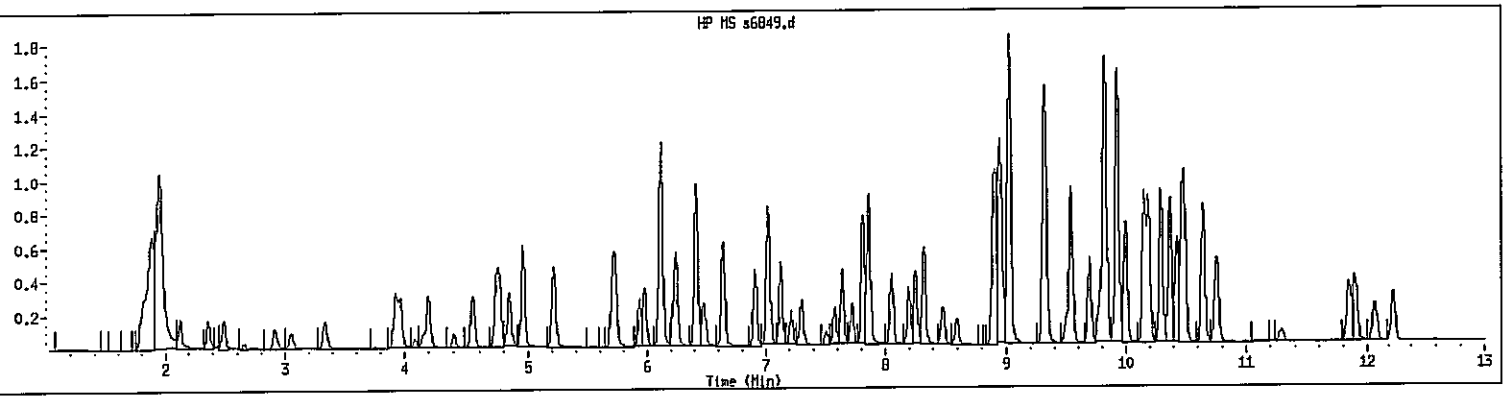


Data file : /var/chem/msv0.i/2031108.s.b/s6849.d
Report Date: 11/10/2003 16:53

MANUAL INTEGRATION GRAPHIC REPORT

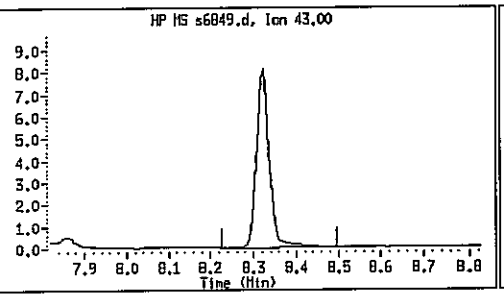
Lab ID : 1400
Injection Date: 08-NOV-2003 08:49
Operator : KRV
Sample Info : 1400*V0STD050*5-5-5
Misc Info : MSV~3957~*1*KRV
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Dilution : 1.0
Matrix : SOIL
Integrator : HP RTE

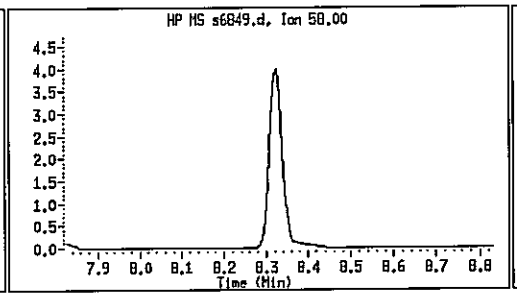
SampleType : CCALIB_3
Instrument : msv0.i
Compound Sublist: 8260b

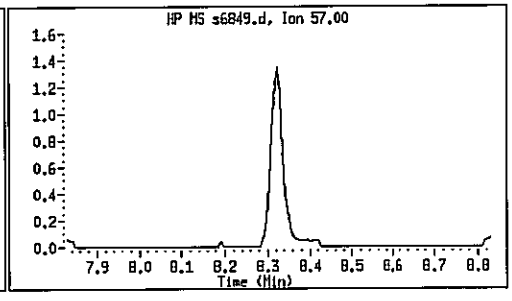


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
55 2-Hexanone			CAS#: 591-78-6				
8.323	0.936	43	173922	44	44	80-120	100
8.329	0.937	58	0			0- 0	0
8.329	0.937	57	0			0- 0	0







Data File: /var/chem/msv1.i/2031105.s.b/s4795.d

Date : 05-NOV-2003 13:19

Client ID: BFB01

Instrument: msv1.i

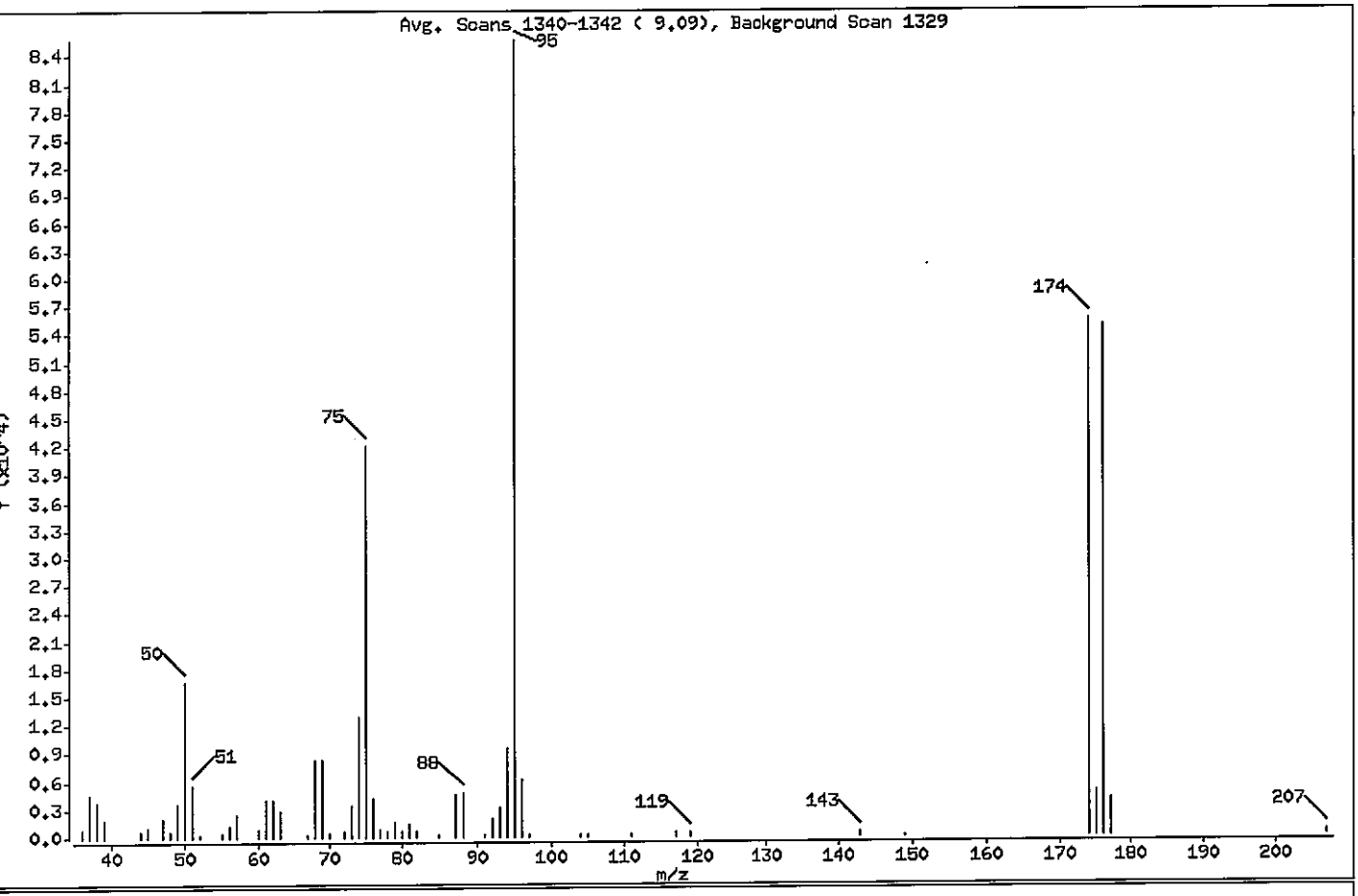
Sample Info: 1000XBFB01

Operator: HJL

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	19.32
75	30.00 - 60.00% of mass 95	49.11
96	5.00 - 9.00% of mass 95	7.09
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	64.76
175	5.00 - 9.00% of mass 174	5.52 (8.52)
176	95.00 - 101.00% of mass 174	64.13 (99.03)
177	5.00 - 9.00% of mass 176	4.60 (7.18)

Data File: /var/chem/msv1.i/2031105.s.b/s4795.d

Date : 05-NOV-2003 13:19

Client ID: BFB01

Instrument: msv1.i

Sample Info: 1000XBFB01

Operator: HJL

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s4795.d

Spectrum: Avg. Scans 1340-1342 (9.09), Background Scan 1329

Location of Maximum: 95.00

Number of points: 56

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	780	60.00	836	79.00	1663	105.00	140
37.00	4569	61.00	3932	80.00	575	111.00	154
38.00	3707	62.00	4037	81.00	1452	117.00	329
39.00	1821	63.00	2794	82.00	567	119.00	476
44.00	494	67.00	131	85.00	179	143.00	344
45.00	955	68.00	8299	87.00	4602	149.00	68
47.00	1944	69.00	8341	88.00	4774	174.00	55472
48.00	606	70.00	426	91.00	133	175.00	4725
49.00	3594	72.00	531	92.00	1945	176.00	54936
50.00	16544	73.00	3393	93.00	3151	177.00	3943
51.00	5429	74.00	12861	94.00	9478	207.00	313
52.00	134	75.00	42064	95.00	85664		
55.00	370	76.00	4176	96.00	6071		
56.00	1200	77.00	845	97.00	223		
57.00	2310	78.00	589	104.00	188		

Data File: /var/chem/msv1.i/2031105.s.b/s4795.d

Date : 05-NOV-2003 13:19

Client ID: BFB01

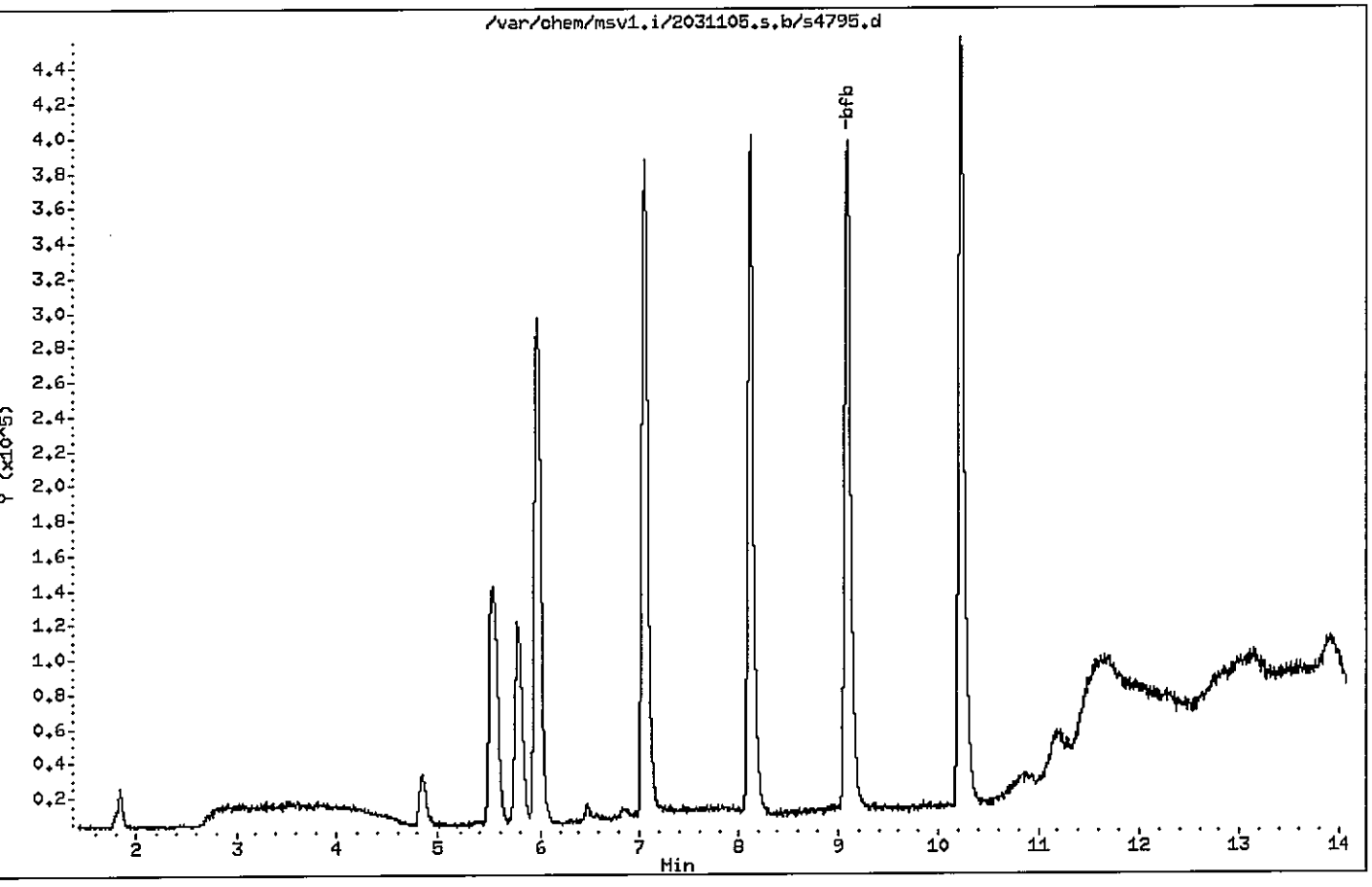
Instrument: msv1.i

Sample Info: 1000XBFB01

Operator: HJL

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4800.d
Lab Smp Id: 1201 Client Smp ID: V1STD005
Inj Date : 05-NOV-2003 15:25
Operator : RSP Inst ID: msv1.i
Smp Info : 1201*V1STD005 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 15:25 Cal File: s4800.d
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.315	2.316	(0.386)	72441	5.00000	5.15	
2 Chloromethane ++	50	2.601	2.591	(0.434)	45900	5.00000	5.22	(M)
3 Vinyl Chloride +	62	2.647	2.665	(0.441)	49758	5.00000	4.86	(a)
5 Bromomethane	94	3.037	3.026	(0.506)	45140	5.00000	5.86	
6 Chloroethane	64	3.111	3.124	(0.519)	33635	5.00000	5.81	(M)
7 Trichlorofluoromethane	101	3.329	3.330	(0.555)	87462	5.00000	5.07	
9 Acrolein	56	3.776	3.783	(0.629)	29290	25.0000	21.9	
10 1,1,2Trichlotrifluoroethane	101	3.793	3.800	(0.632)	98843	5.00000	5.19	
11 1,1-Dichloroethene +	96	3.816	3.817	(0.636)	51270	5.00000	5.27	
12 Acetone	43	3.919	3.926	(0.653)	13748	5.00000	5.26	
13 Methyl Iodide	142	4.005	4.001	(0.668)	88285	5.00000	4.33	(a)
14 Carbon Disulfide	76	4.011	4.023	(0.669)	145757	5.00000	5.14	
17 Methylene Chloride	49	4.286	4.276	(0.714)	75348	5.00000	5.24	
19 trans-1,2-Dichloroethene	61	4.447	4.442	(0.741)	81692	5.00000	5.26	
20 Methyl Acetate	43	4.160	4.167	(0.693)	48320	5.00000	5.18	3417(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
21 MTBE	73	4.429	4.442	(0.738)	173791	5.00000	5.39	5242
22 Acrylonitrile	53	4.498	4.493	(0.750)	87376	25.0000	26.9	(M)
23 Hexane	57	4.590	4.602	(0.765)	89325	5.00000	5.63	6243 (M)
24 1,1-Dichloroethane ++	63	4.791	4.780	(0.798)	111670	5.00000	5.34	
25 Vinyl Acetate	43	4.796	4.803	(0.799)	107657	5.00000	5.35	
31 2,2-Dichloropropane	77	5.215	5.204	(0.869)	90216	5.00000	5.45	
30 cis-1,2-Dichloroethene	61	5.215	5.198	(0.869)	103994	5.00000	5.27	
32 2-Butanone	43	5.238	5.227	(0.873)	31098	5.00000	5.22	(M)
34 Bromochloromethane	128	5.387	5.376	(0.898)	40042	5.00000	5.28	
36 Dibromofluoromethane	111	5.530	5.531	(0.922)	89344	5.00000	5.33	5131
37 1,1,1-Trichloroethane	97	5.559	5.554	(0.926)	97344	5.00000	5.32	(H)
38 Cyclohexane	56	5.564	5.548	(0.927)	110667	5.00000	5.26	6204 (M)
39 Carbon Tetrachloride	117	5.662	5.645	(0.944)	77196	5.00000	5.28	
41 Chloroform +	83	5.427	5.410	(0.904)	129661	5.00000	5.37	(M)
42 1,1-Dichloropropene	75	5.673	5.657	(0.946)	98551	5.00000	5.37	(M)
43 1,2-Dichloroethane-d4	67	5.799	5.789	(0.967)	40013	5.00000	5.54	
44 Benzene	78	5.811	5.812	(0.968)	216716	5.00000	4.30	(a)
46 1,2-Dichloroethane	62	5.856	5.846	(0.976)	77798	5.00000	5.16	
47 FLUOROBENZENE	96	6.000	6.006	(1.000)	2036039	50.0000		
48 Total 1,2-Dichloroethene	61				185686	10.0000	10.5	
49 Trichloroethene	130	6.246	6.236	(1.041)	92712	5.00000	5.04	
50 Methyl Cyclohexane	83	6.338	6.327	(1.056)	120697	5.00000	5.37	6193
51 1,2-Dichloropropane +	63	6.441	6.419	(1.074)	86536	5.00000	5.49	
52 Dibromomethane	93	6.510	6.499	(1.085)	65612	5.00000	5.26	
54 Bromodichloromethane	83	6.590	6.574	(1.098)	114753	5.00000	5.14	
56 2-Chloroethyl vinyl ether	63	6.773	6.757	(1.129)	48755	5.00000	5.56	
57 cis-1,3-Dichloropropene	75	6.894	6.878	(1.149)	118435	5.00000	5.24	
58 4-methyl-2-pentanone	43	6.974	6.958	(1.162)	89133	5.00000	5.21	
59 Toluene-d8	98	7.054	7.038	(0.869)	200862	5.00000	5.36	
60 Toluene +	91	7.100	7.090	(0.875)	250039	5.00000	5.42	
61 trans-1,3-Dichloropropene	75	7.284	7.256	(0.898)	103710	5.00000	5.00	(H)
64 1,1,2-Trichloroethane	97	7.410	7.388	(0.913)	80803	5.00000	5.46	
65 Tetrachloroethene	164	7.478	7.451	(0.922)	61740	5.00000	4.99	(a)
66 1,3-Dichloropropane	76	7.541	7.525	(0.929)	129260	5.00000	5.33	
67 2-Hexanone	43	7.536	7.514	(0.929)	69444	5.00000	5.70	
68 Dibromochloromethane	129	7.690	7.657	(0.948)	94964	5.00000	4.87	(a)
69 1,2-Dibromoethane(EDB)	107	7.799	7.777	(0.961)	99111	5.00000	5.06	
70 CHLOROBENZENE-d5	82	8.114	8.081	(1.000)	1060940	50.0000		
71 Chlorobenzene ++	112	8.126	8.110	(1.001)	175674	5.00000	5.67	
72 Ethylbenzene +	106	8.178	8.144	(1.008)	72392	5.00000	5.40	(H)
73 1,1,1,2-Tetrachloroethane	133	8.189	8.155	(1.009)	74151	5.00000	5.53	(M)
74 p,m-Xylene	106	8.252	8.236	(1.017)	229269	10.0000	11.1	
75 o-Xylene	106	8.596	8.568	(1.059)	109168	5.00000	5.87	
76 Styrene	104	8.607	8.591	(1.061)	188283	5.00000	5.71	
77 Bromoform ++	173	8.825	8.792	(1.088)	67908	5.00000	5.20	
78 Isopropylbenzene	105	8.900	8.866	(1.097)	287288	5.00000	5.17	
79 Bromofluorobenzene	174	9.089	9.067	(1.120)	71712	5.00000	5.18	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
80 1,1,2,2-Tetrachloroethane++	83	9.192	9.164	(0.899)	78717	5.00000	5.07	
83 Bromobenzene	77	9.255	9.227	(0.905)	203758	5.00000	5.35	
82 trans-1,4-Dichloro-2-Butene	53	9.255	9.239	(0.905)	24445	5.00000	5.24	
84 1,2,3-Trichloropropane	75	9.272	9.233	(0.906)	125385	5.00000	4.90	(a)
85 n-Propylbenzene	91	9.278	9.244	(0.907)	314236	5.00000	5.44	(H)
86 2-Chlorotoluene	91	9.410	9.376	(0.920)	214829	5.00000	5.19	
87 1,3,5-Trimethylbenzene	105	9.421	9.405	(0.921)	214277	5.00000	5.87	
89 4-Chlorotoluene	91	9.507	9.485	(0.929)	219548	5.00000	5.25	(H)
90 tert-butylbenzene	91	9.748	9.732	(0.953)	146986	5.00000	5.24	
91 p-Isopropyltoluene	119	9.754	9.720	(0.953)	216154	5.00000	5.35	
92 1,2,4-Trimethylbenzene	105	9.811	9.777	(0.959)	193461	5.00000	5.93	
93 sec-Butylbenzene	105	9.983	9.944	(0.976)	296201	5.00000	5.18	
95 1,3-Dichlorobenzene	146	10.160	10.133	(0.993)	115076	5.00000	5.27	(M)
96 1,4-DICHLOROBENZENE-D4	152	10.229	10.201	(1.000)	824896	50.0000		
97 1,4-Dichlorobenzene	146	10.258	10.224	(1.003)	143513	5.00000	5.18	
98 TOTAL XYLENE	106				338437	15.0000	17.0	
99 n-Butylbenzene	91	10.550	10.522	(1.031)	200406	5.00000	5.85	
101 1,2-Dichlorobenzene	146	10.676	10.643	(1.044)	129823	5.00000	5.34	
105 1,2-Dibromo-3-Chloropropane	157	11.461	11.434	(1.120)	26452	5.00000	5.73	
107 1,2,4-Trichlorobenzene	180	12.201	12.173	(1.193)	63719	5.00000	5.99	(M)
108 Hexachlorobutadiene	225	12.304	12.282	(1.203)	52463	5.00000	5.06	
109 Naphthalene	128	12.459	12.437	(1.218)	119952	5.00000	4.17	(a)
110 1,2,3-Trichlorobenzene	180	12.705	12.677	(1.242)	61483	5.00000	1.03	(a)

QC Flag Legend

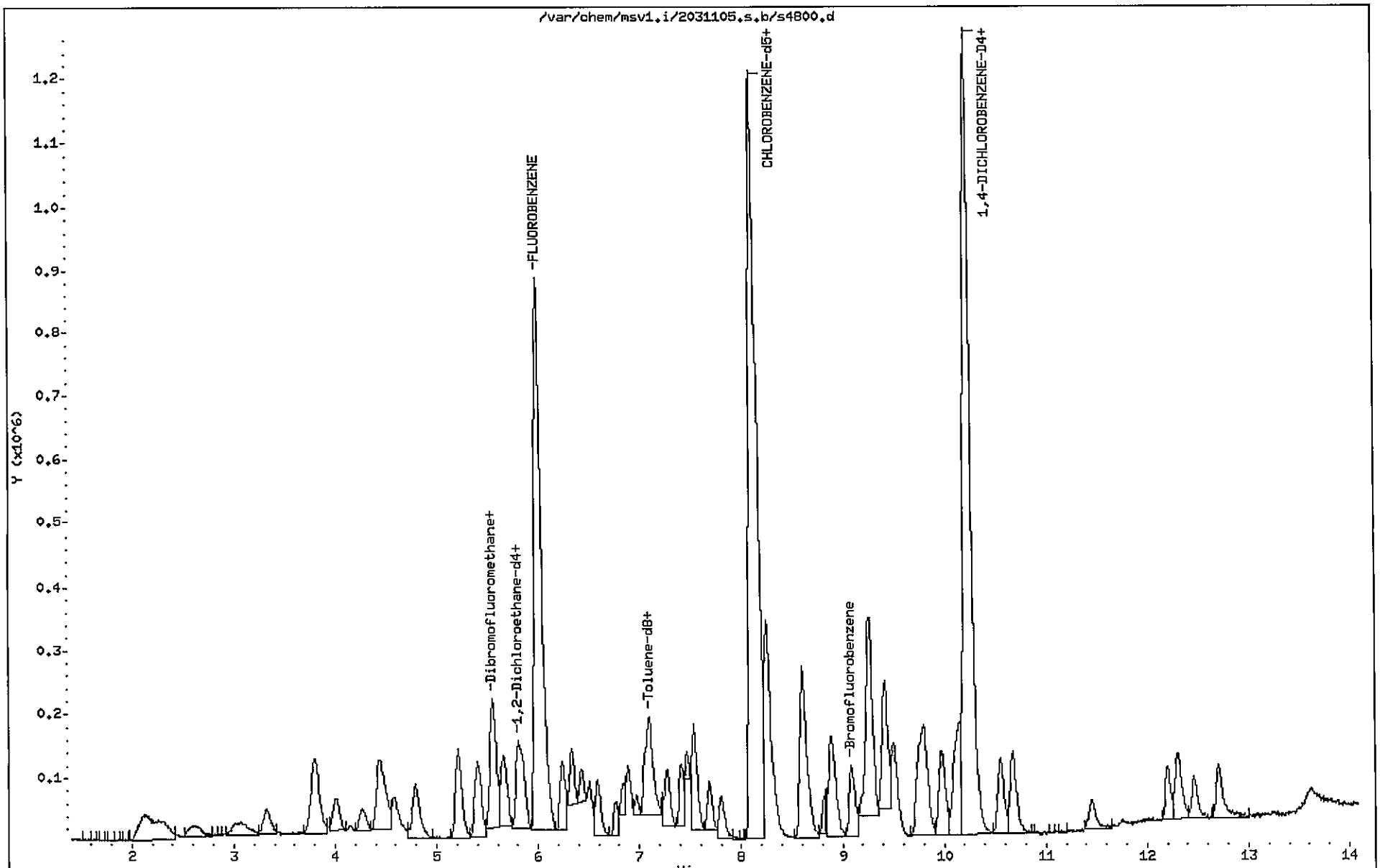
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4800.d
Date : 05-NOV-2003 15:25
Client ID: V1STD005
Sample Info: 1201MV1STD005 PPBM5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000228



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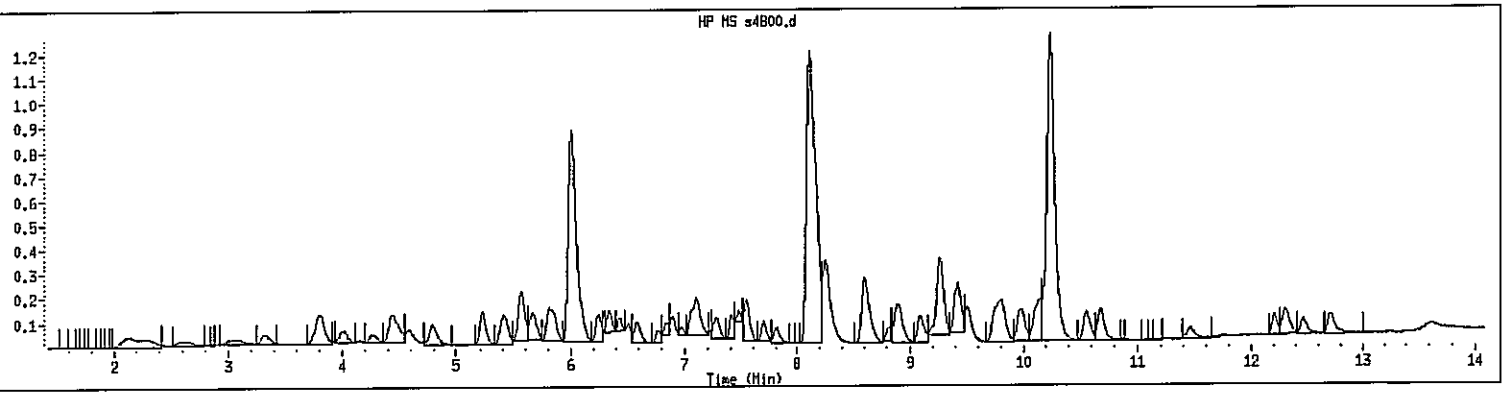
Report Date: 11/14/2003 09:50

MANUAL INTEGRATION GRAPHIC REPORT

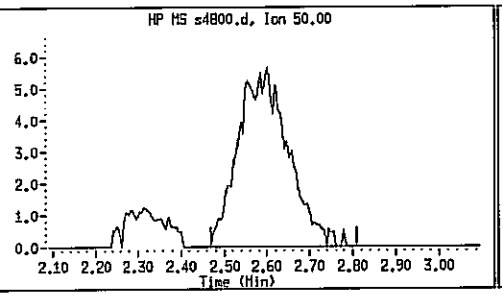
Lab ID : 1201
Injection Date: 05-NOV-2003 15:25
Operator : RSP
Sample Info : 1201*V1STD005 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

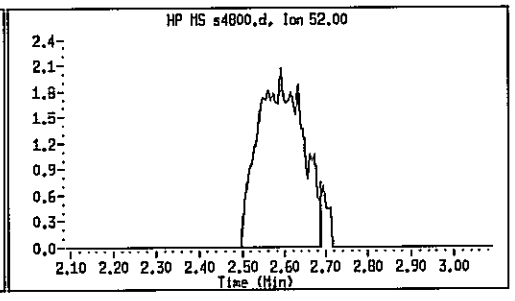
SampleType : CALIB_1
Instrument : msv1.i
Compound Sublist: 8260b



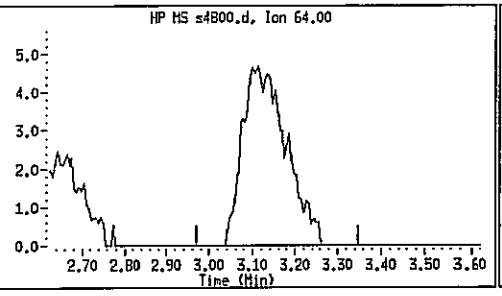
CONCENTRATIONS

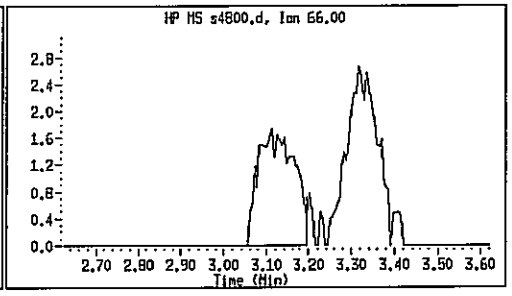
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
2 Chloromethane ++			CAS#: 74-87-3				
2.601	0.434	50	45900	5	5	80-120	100
2.590	0.432	52	15339			27- 41	33



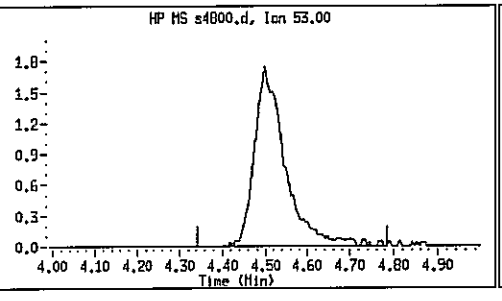


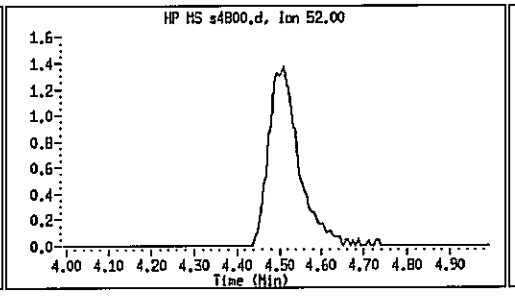
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
6 Chloroethane			CAS#: 75-00-3				
3.111	0.519	64	33635	6	6	80-120	100
3.111	0.519	66	10569			27- 40	31

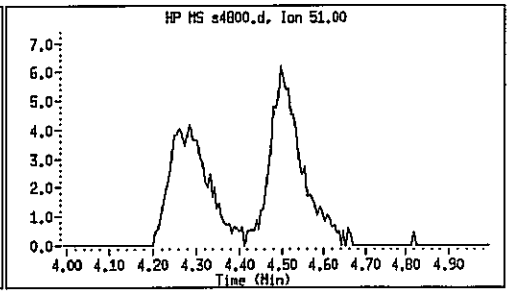




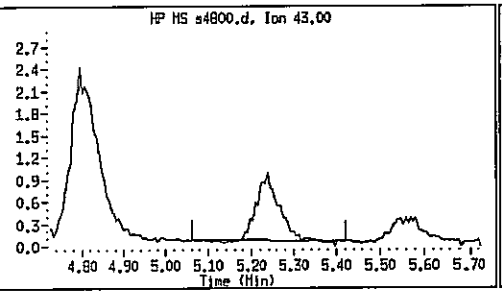
22 Acrylonitrile			CAS#: 107-13-1				
4.498	0.750	53	87376	27	27	80-120	100
5.816	0.969	52	39768			65- 98	46
5.811	0.968	51	76920			29- 43	88

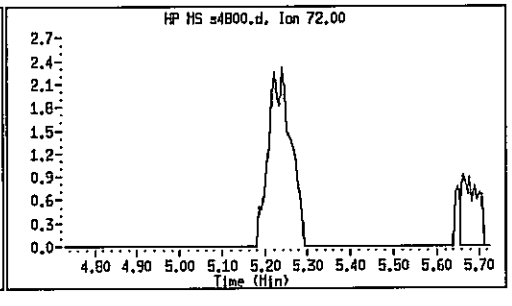




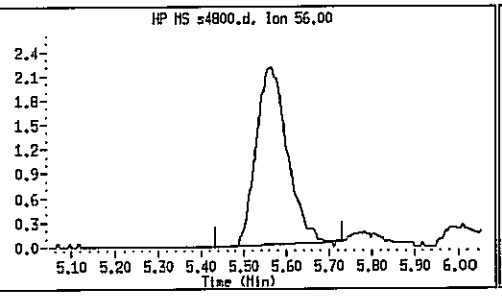


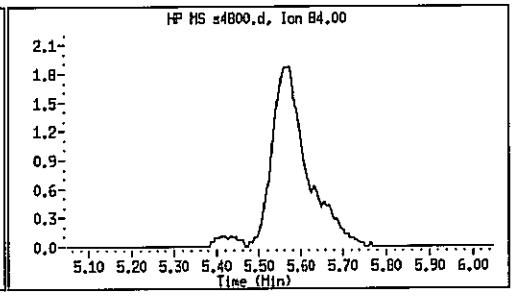
32 2-Butanone			CAS#: 78-93-3				
5.238	0.873	43	31098	5	5	80-120	100
5.662	0.944	72	2459			23- 34	8



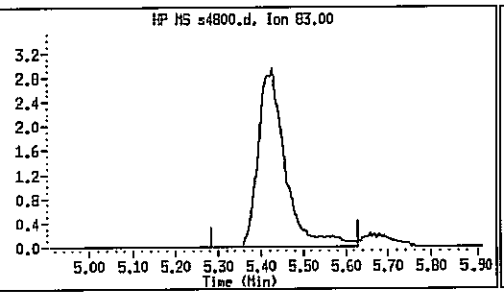


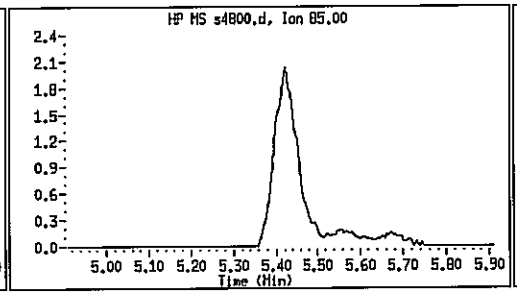
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
38 Cyclohexane			CAS#: 110-82-7				
5.564	0.927	56	110667	5	5	80-120	100
5.344	1.057	84	1799			63- 95	2

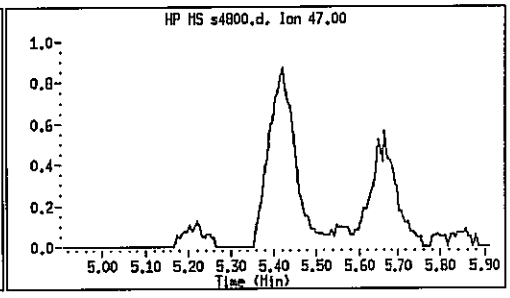




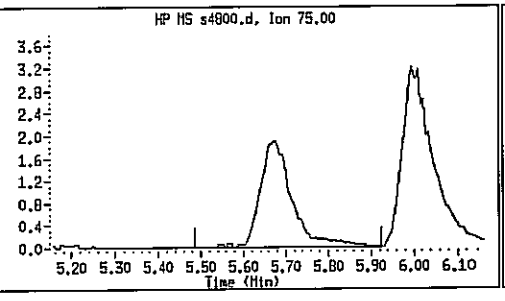
41 Chloroform +			CAS#: 67-66-3				
5.427	0.904	83	129661	5	5	80-120	100
5.590	1.098	85	74734			55- 82	58
5.590	1.098	47	23608			25- 38	18

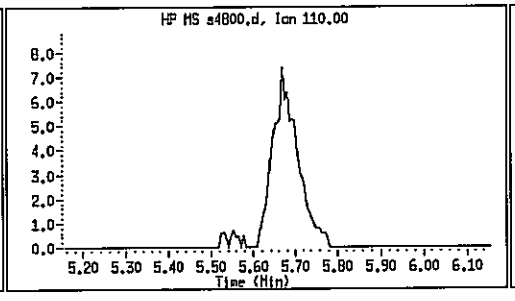


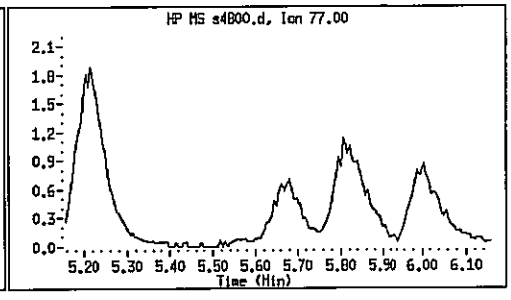




42 1,1-Dichloropropene			CAS#: 563-58-6				
5.673	0.946	75	98551	5	5	80-120	100
5.888	1.148	110	26445			26- 40	27
5.894	1.149	77	41933			25- 38	43

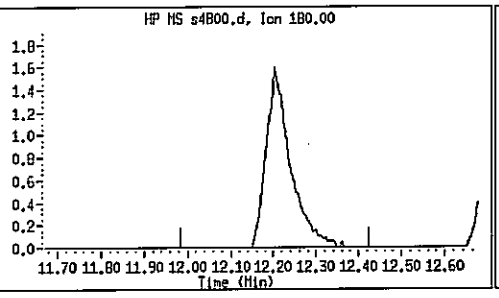


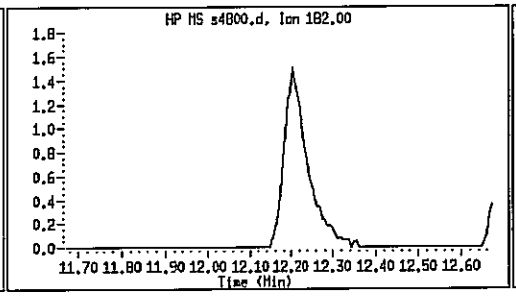


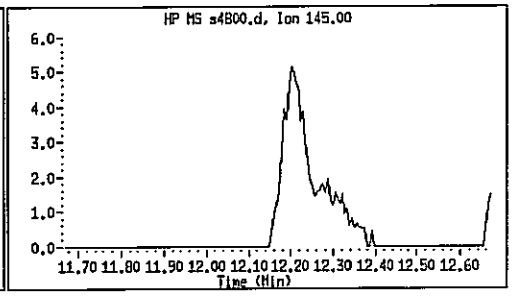


CONCENTRATIONS

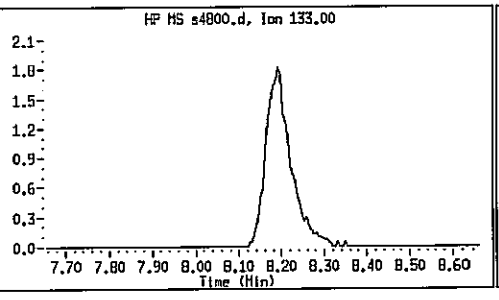
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
107 1,2,4-Trichlorobenzene				CAS#: 120-82-1			
12.201	1.193	180	63719	6	6	80-120	100
12.711	1.243	182	58427			76-114	92
12.705	1.242	145	22386			34- 52	35

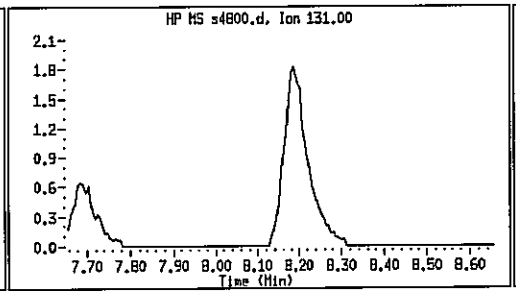


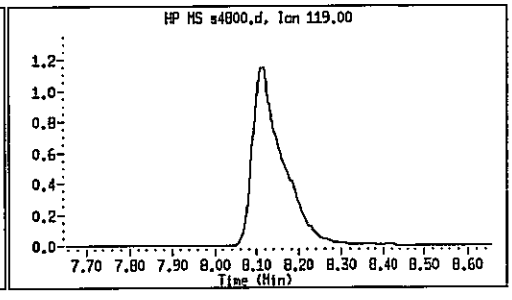




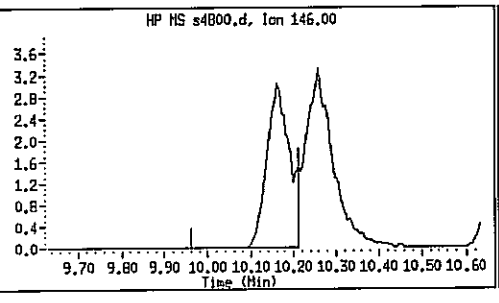
73 1,1,1,2-Tetrachloroethane				CAS#: 630-20-6			
8.189	1.009	133	74151	6	6	80-120	100
8.160	1.006	131	0			82-123	0
8.097	0.998	119	0			119-179	0

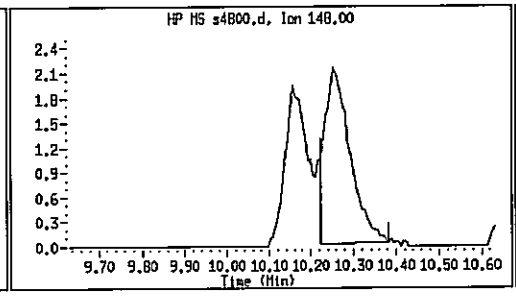


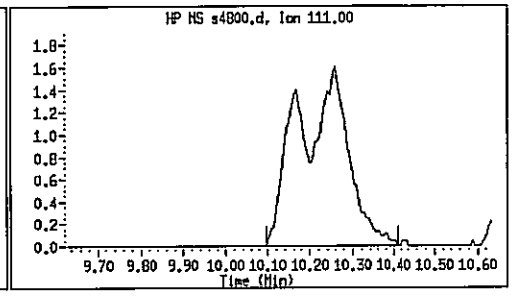




95 1,3-Dichlorobenzene				CAS#: 541-73-1			
10.160	0.993	146	115076	5	5	80-120	100
10.252	1.002	148	88971			57- 85	77
10.258	1.003	111	131127			81-122	114

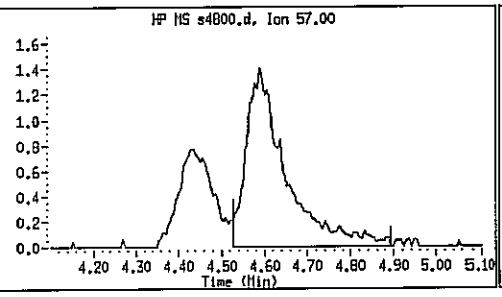


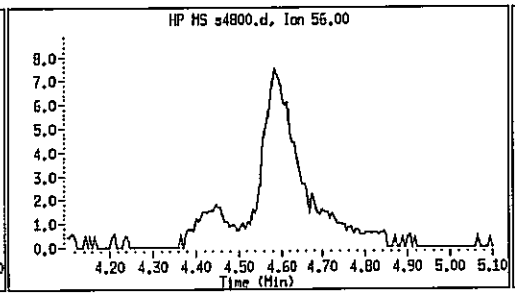


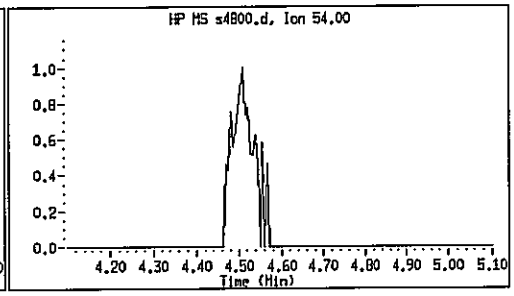


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
23 Hexane			CAS#: 110-54-3				
4.590	0.765	57	89325	6	6	80-120	100
5.349	1.058	56	6323			40- 60	7
5.349	1.058	54	1431			1- 2	2







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4801.d
Lab Smp Id: 1202 Client Smp ID: V1STD020
Inj Date : 05-NOV-2003 15:48
Operator : SAB Inst ID: msv1.i
Smp Info : 1202*V1STD020 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 15:48 Cal File: s4801.d
Als bottle: 10 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.321	2.316	(0.388)	272644	20.0000	19.5	
2 Chloromethane ++	50	2.573	2.591	(0.430)	178623	20.0000	20.4	
3 Vinyl Chloride +	62	2.642	2.665	(0.442)	202474	20.0000	19.9	
5 Bromomethane	94	3.020	3.026	(0.505)	162136	20.0000	21.1	
6 Chloroethane	64	3.117	3.124	(0.521)	129386	20.0000	22.5	
7 Trichlorofluoromethane	101	3.312	3.330	(0.554)	340466	20.0000	19.8	
9 Acrolein	56	3.776	3.783	(0.631)	119540	100.000	89.8	
10 1,1,2Trichlotrifluoroethane	101	3.799	3.800	(0.635)	376457	20.0000	19.9	
11 1,1-Dichloroethene +	96	3.805	3.817	(0.636)	194774	20.0000	20.1	
12 Acetone	43	3.920	3.926	(0.655)	53487	20.0000	20.6	
13 Methyl Iodide	142	3.988	4.001	(0.667)	404938	20.0000	20.0	
14 Carbon Disulfide	76	4.017	4.023	(0.671)	557235	20.0000	19.8	
17 Methylene Chloride	49	4.269	4.276	(0.714)	279932	20.0000	19.6	
19 trans-1,2-Dichloroethene	61	4.435	4.442	(0.741)	313252	20.0000	20.3	
20 Methyl Acetate	43	4.149	4.167	(0.693)	181029	20.0000	19.5	3284(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
21 MTBE	73	4.435	4.442	(0.741)	635467	20.0000	19.8	5018
22 Acrylonitrile	53	4.493	4.493	(0.751)	337140	100.000	104	(M)
23 Hexane	57	4.573	4.602	(0.764)	308674	20.0000	19.6	6253 (M)
24 1,1-Dichloroethane ++	63	4.779	4.780	(0.799)	415090	20.0000	19.9	
25 Vinyl Acetate	43	4.796	4.803	(0.802)	371617	20.0000	18.6	
31 2,2-Dichloropropane	77	5.203	5.204	(0.870)	333140	20.0000	20.2	
30 cis-1,2-Dichloroethene	61	5.203	5.198	(0.870)	397278	20.0000	20.2	
32 2-Butanone	43	5.226	5.227	(0.874)	117445	20.0000	19.8	
34 Bromochloromethane	128	5.381	5.376	(0.899)	147709	20.0000	19.6	
36 Dibromofluoromethane	111	5.530	5.531	(0.924)	337221	20.0000	20.2	5177
37 1,1,1-Trichloroethane	97	5.547	5.554	(0.927)	365049	20.0000	20.1	
38 Cyclohexane	56	5.547	5.548	(0.927)	413054	20.0000	19.7	6282 (M)
39 Carbon Tetrachloride	117	5.645	5.645	(0.943)	297290	20.0000	20.4	
41 Chloroform +	83	5.410	5.410	(0.904)	467833	20.0000	19.5	(M)
42 1,1-Dichloropropene	75	5.656	5.657	(0.945)	357073	20.0000	19.6	(M)
43 1,2-Dichloroethane-d4	67	5.794	5.789	(0.968)	145268	20.0000	20.2	
44 Benzene	78	5.805	5.812	(0.970)	795706	20.0000	20.3	
46 1,2-Dichloroethane	62	5.839	5.846	(0.976)	322781	20.0000	21.5	
47 FLUOROBENZENE	96	5.983	6.006	(1.000)	2025452	50.0000		
48 Total 1,2-Dichloroethene	61				710530	40.0000	40.5	
49 Trichloroethene	130	6.223	6.236	(1.040)	358658	20.0000	19.6	
50 Methyl Cyclohexane	83	6.321	6.327	(1.057)	440331	20.0000	19.7	6253
51 1,2-Dichloropropane +	63	6.418	6.419	(1.073)	330630	20.0000	21.1	
52 Dibromomethane	93	6.498	6.499	(1.086)	246170	20.0000	19.8	
54 Bromodichloromethane	83	6.567	6.574	(1.098)	426972	20.0000	19.2	
56 2-Chloroethyl vinyl ether	63	6.756	6.757	(1.129)	170428	20.0000	19.5	
57 cis-1,3-Dichloropropene	75	6.877	6.878	(1.149)	447905	20.0000	19.9	
58 4-methyl-2-pentanone	43	6.957	6.958	(1.163)	328330	20.0000	19.3	
59 Toluene-d8	98	7.037	7.038	(0.870)	753790	20.0000	20.3	
60 Toluene +	91	7.089	7.090	(0.877)	916061	20.0000	20.0	
61 trans-1,3-Dichloropropene	75	7.255	7.256	(0.897)	397472	20.0000	19.3	
64 1,1,2-Trichloroethane	97	7.387	7.388	(0.914)	281327	20.0000	19.2	
65 Tetrachloroethene	164	7.456	7.451	(0.922)	234800	20.0000	19.2	
66 1,3-Dichloropropane	76	7.513	7.525	(0.929)	475342	20.0000	19.8	
67 2-Hexanone	43	7.513	7.514	(0.929)	236274	20.0000	19.6	
68 Dibromochloromethane	129	7.673	7.657	(0.949)	365396	20.0000	18.9	
69 1,2-Dibromoethane(EDB)	107	7.782	7.777	(0.962)	375006	20.0000	19.3	
70 CHLOROBENZENE-d5	82	8.086	8.081	(1.000)	1051655	50.0000		
71 Chlorobenzene ++	112	8.109	8.110	(1.003)	618445	20.0000	20.1	
72 Ethylbenzene +	106	8.143	8.144	(1.007)	273109	20.0000	20.6	
73 1,1,1,2-Tetrachloroethane	133	8.166	8.155	(1.010)	268531	20.0000	20.2	(M)
74 p,m-Xylene	106	8.241	8.236	(1.019)	840992	40.0000	41.1	
75 o-Xylene	106	8.579	8.568	(1.061)	392833	20.0000	21.3	
76 Styrene	104	8.590	8.591	(1.062)	683094	20.0000	20.9	
77 Bromoform ++	173	8.808	8.792	(1.089)	230296	20.0000	17.8	
78 Isopropylbenzene	105	8.871	8.866	(1.097)	950569	20.0000	19.6	
79 Bromofluorobenzene	174	9.072	9.067	(1.122)	270805	20.0000	19.7	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
80	1,1,2,2-Tetrachloroethane++	83	9.175	9.164	(0.899)	268379	20.0000	17.4	
83	Bromobenzene	77	9.238	9.227	(0.906)	731102	20.0000	19.3	
82	trans-1,4-Dichloro-2-Butene	53	9.238	9.239	(0.906)	90510	20.0000	19.5	
84	1,2,3-Trichloropropane	75	9.244	9.233	(0.906)	495640	20.0000	19.5	
85	n-Propylbenzene	91	9.249	9.244	(0.907)	1162222	20.0000	20.2	
86	2-Chlorotoluene	91	9.387	9.376	(0.920)	834755	20.0000	20.3	
87	1,3,5-Trimethylbenzene	105	9.404	9.405	(0.922)	769438	20.0000	21.2	
89	4-Chlorotoluene	91	9.490	9.485	(0.930)	812130	20.0000	19.5	
90	tert-butylbenzene	91	9.731	9.732	(0.954)	549524	20.0000	19.7	
91	p-Isopropyltoluene	119	9.731	9.720	(0.954)	773693	20.0000	19.2	
92	1,2,4-Trimethylbenzene	105	9.794	9.777	(0.960)	711150	20.0000	21.9	
93	sec-Butylbenzene	105	9.943	9.944	(0.975)	1077168	20.0000	19.0	
95	1,3-Dichlorobenzene	146	10.143	10.133	(0.994)	438766	20.0000	20.2	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.201	10.201	(1.000)	820111	50.0000		
97	1,4-Dichlorobenzene	146	10.229	10.224	(1.003)	527472	20.0000	19.1	
98	TOTAL XYLENE	106				1233825	60.0000	62.4	
99	n-Butylbenzene	91	10.522	10.522	(1.031)	688608	20.0000	20.2	
101	1,2-Dichlorobenzene	146	10.659	10.643	(1.045)	469518	20.0000	19.4	
105	1,2-Dibromo-3-Chloropropane	157	11.433	11.434	(1.121)	98890	20.0000	18.3	
107	1,2,4-Trichlorobenzene	180	12.172	12.173	(1.193)	229244	20.0000	21.7	
108	Hexachlorobutadiene	225	12.281	12.282	(1.204)	187602	20.0000	18.2	
109	Naphthalene	128	12.430	12.437	(1.219)	402128	20.0000	22.0	
110	1,2,3-Trichlorobenzene	180	12.676	12.677	(1.243)	227152	20.0000	21.1	

QC Flag Legend

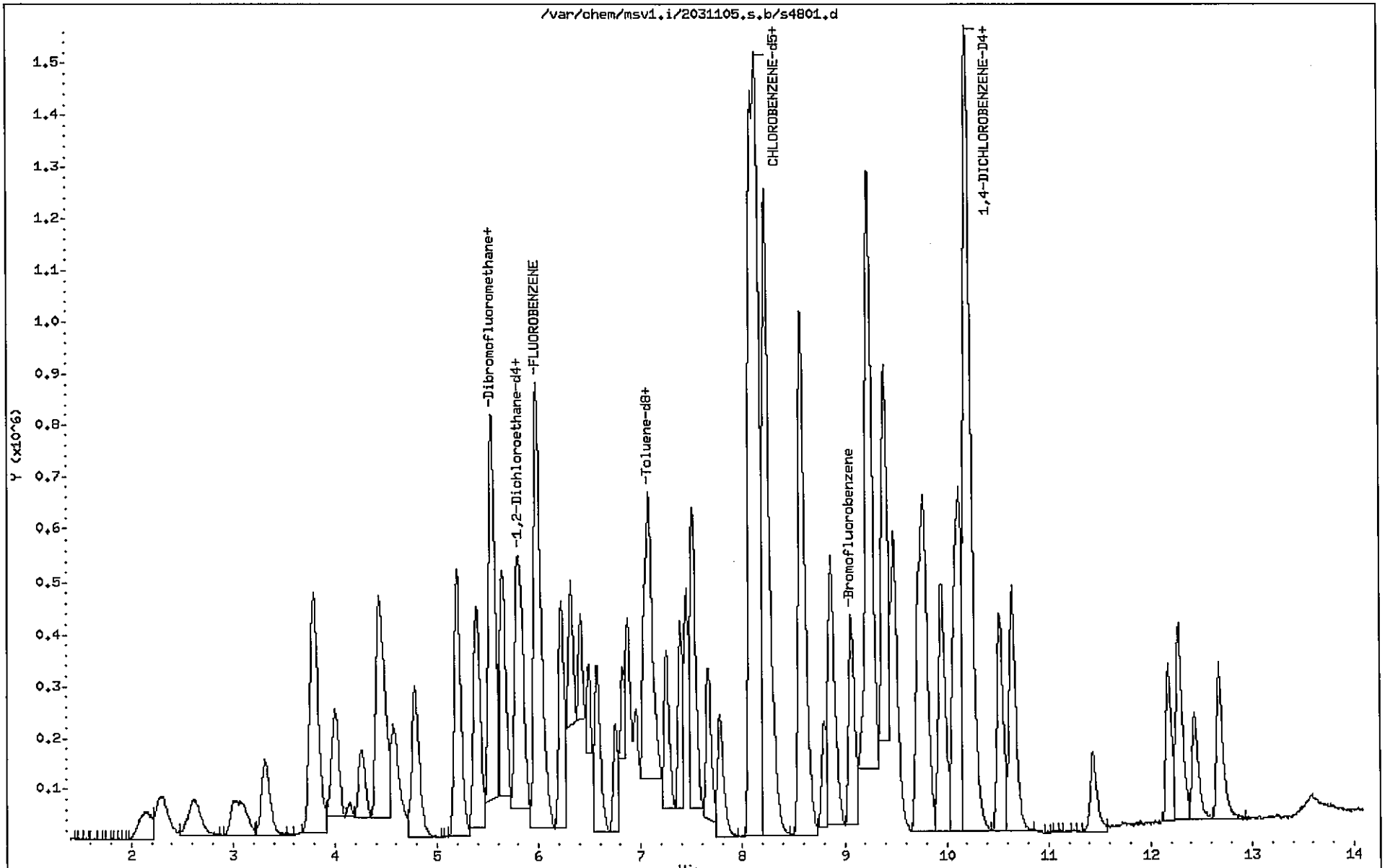
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4801.d
Date : 05-NOV-2003 15:48
Client ID: V1STD020
Sample Info: 1202MV1STD020 PPBM5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: SAB
Column diameter: 0.53

000237



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Report Date: 11/14/2003 09:50

MANUAL INTEGRATION GRAPHIC REPORT

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Injection Date: 05-NOV-2003 15:48
Operator : SAB
Sample Info : 1202*V1STD020 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
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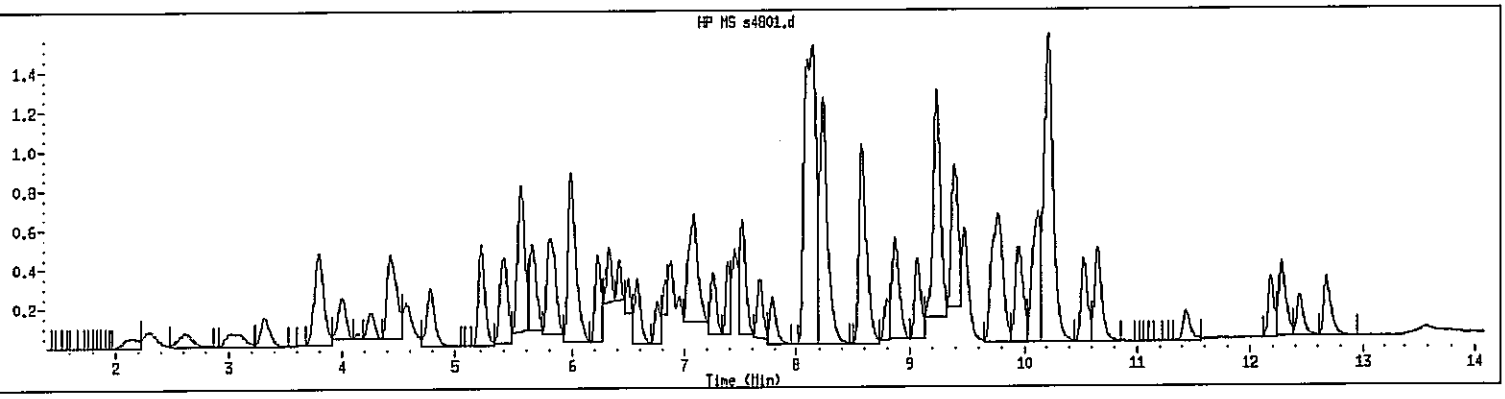
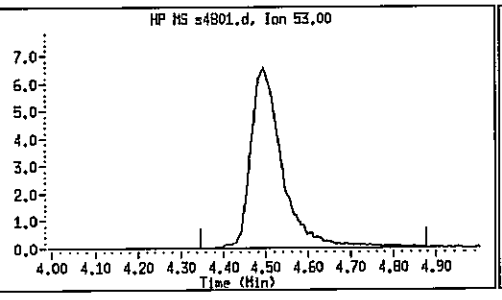
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

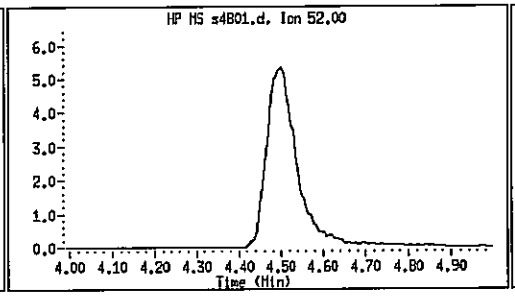
SampleType : CALIB_2
Instrument : msv1.i
Compound Sublist: 8260b

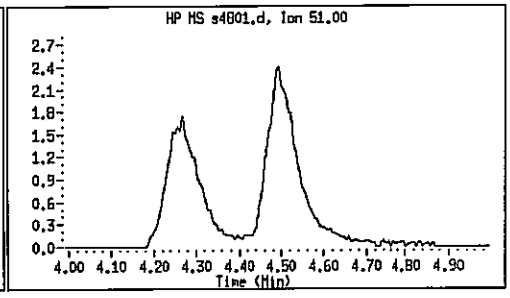


CONCENTRATIONS

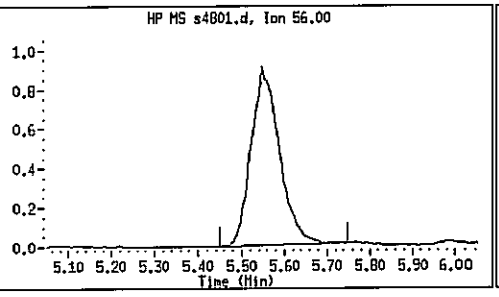
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
22 Acrylonitrile			CAS#: 107-13-1				
4.493	0.751	53	337140	104	104	80-120	100
4.521	0.756	52	0			65- 98	0
4.521	0.756	51	0			29- 43	0

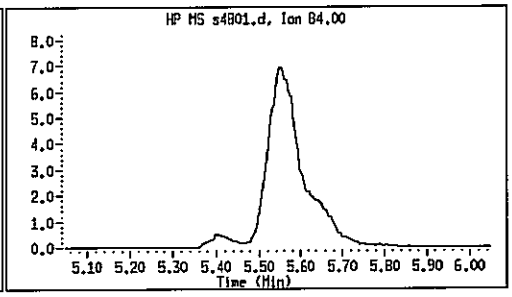




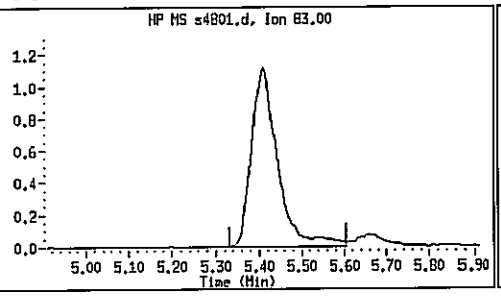


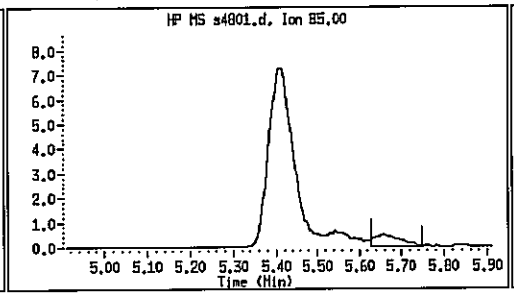
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
38 Cyclohexane			CAS#: 110-82-7				
5.547	0.927	56	413054	20	20	80-120	100
5.327	1.057	84	6679			63- 95	2

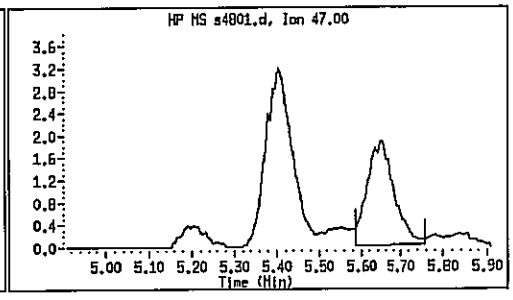




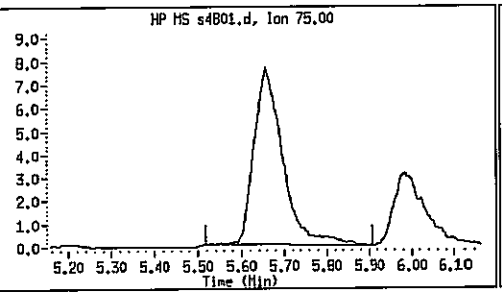
41 Chloroform +			CAS#: 67-66-3				
5.410	0.904	83	467833	19	19	80-120	100
5.656	0.945	85	21180			55- 82	5
5.645	0.943	47	87352			25- 38	19

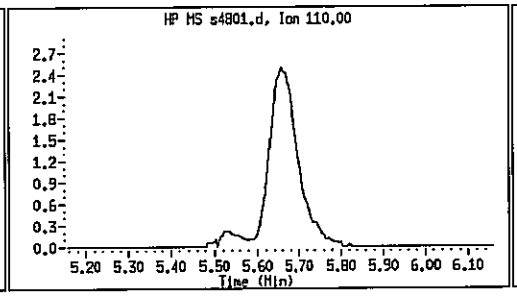


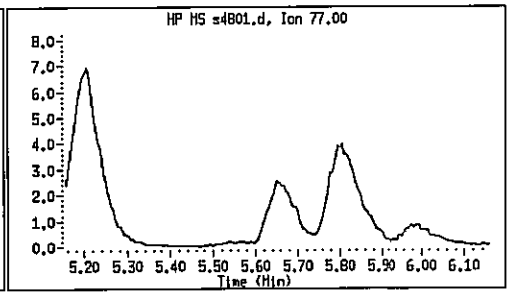




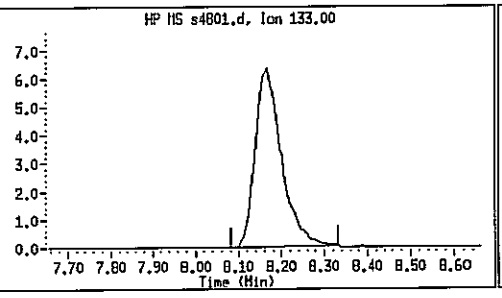
42 1,1-Dichloropropene			CAS#: 563-58-6				
5.656	0.945	75	357073	20	20	80-120	100
5.888	1.151	110	0			26- 40	0
5.894	1.152	77	0			25- 38	0

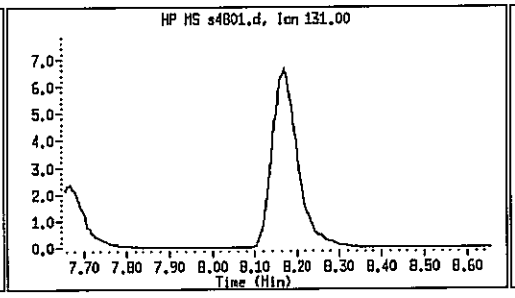


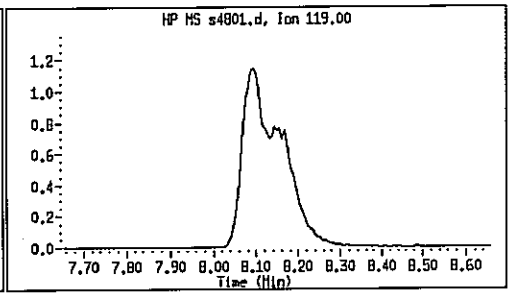




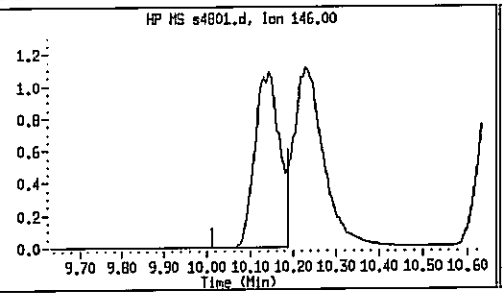
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
73 1,1,1,2-Tetrachloroethane				CAS#: 630-20-6			
8.166	1.010	133	268531	20	20	80-120	100
8.160	1.009	131	0			82-123	0
8.097	1.001	119	0			119-179	0

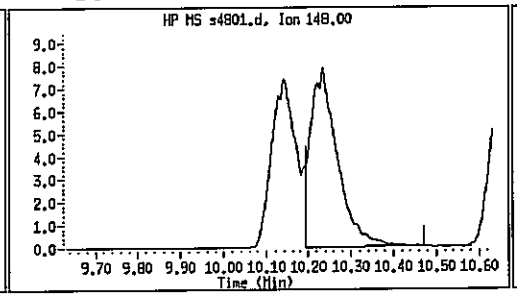


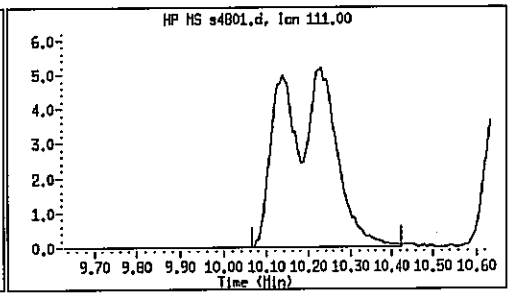




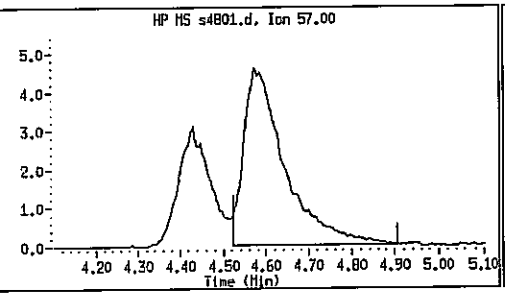
95 1,3-Dichlorobenzene				CAS#: 541-73-1			
10.143	0.994	146	438766	20	20	80-120	100
10.235	1.003	148	338007			57- 85	77
10.229	1.003	111	452393			81-122	103

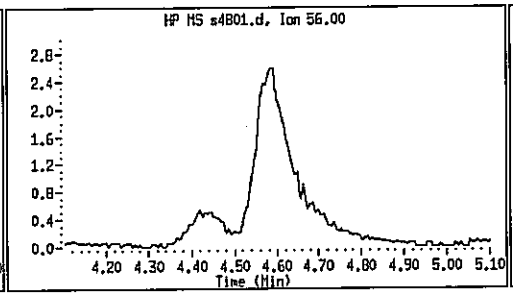


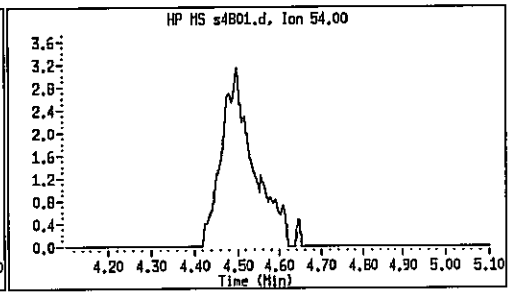




23 Hexane				CAS#: 110-54-3			
4.573	0.764	57	308674	20	20	80-120	100
5.321	1.057	56	26560			40- 60	9
5.321	1.057	54	5023			1- 2	2







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4802.d
Lab Smp Id: 1203 Client Smp ID: V1STD050 PPB
Inj Date : 05-NOV-2003 16:11
Operator : RSP Inst ID: msv1.i
Smp Info : 1203*V1STD050 PPB*5-5-5
Misc Info : MSV~3939~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 16:11 Cal File: s4802.d
Als bottle: 11 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.316	2.316	(1.000)	733277	50.0000	50.3	
2 Chloromethane ++	50	2.591	2.591	(1.000)	454454	50.0000	49.9	
3 Vinyl Chloride +	62	2.665	2.665	(1.000)	538700	50.0000	50.8	
5 Bromomethane	94	3.026	3.026	(1.000)	397243	50.0000	49.7	
6 Chloroethane	64	3.124	3.124	(1.000)	307434	50.0000	51.2	
7 Trichlorofluoromethane	101	3.330	3.330	(1.000)	918711	50.0000	51.4	
9 Acrolein	56	3.783	3.783	(1.000)	349636	250.000	252	(A)
10 1,1,2Trichlotrifluoroethane	101	3.800	3.800	(1.000)	1016652	50.0000	51.5	
11 1,1-Dichloroethene +	96	3.817	3.817	(1.000)	519295	50.0000	51.5	
12 Acetone	43	3.926	3.926	(1.000)	136890	50.0000	50.5	
13 Methyl Iodide	142	4.001	4.001	(1.000)	1103774	50.0000	52.2	
14 Carbon Disulfide	76	4.023	4.023	(1.000)	1489648	50.0000	50.7	
17 Methylene Chloride	49	4.276	4.276	(1.000)	751161	50.0000	50.3	
19 trans-1,2-Dichloroethene	61	4.442	4.442	(1.000)	818640	50.0000	50.8	
20 Methyl Acetate	43	4.167	4.167	(0.694)	481067	50.0000	49.7	3228(MH)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
21 MTBE	73	4.442	4.442	(1.000)	1654612	50.0000	49.5	5033
22 Acrylonitrile	53	4.493	4.493	(1.000)	816110	250.000	242	(A)
23 Hexane	57	4.602	4.602	(1.000)	830775	50.0000	50.5	3376(H)
24 1,1-Dichloroethane ++	63	4.780	4.780	(1.000)	1075205	50.0000	49.6	
25 Vinyl Acetate	43	4.803	4.803	(1.000)	922904	50.0000	44.3	
31 2,2-Dichloropropane	77	5.204	5.204	(1.000)	863938	50.0000	50.4	
30 cis-1,2-Dichloroethene	61	5.198	5.198	(1.000)	1028791	50.0000	50.3	
32 2-Butanone	43	5.227	5.227	(1.000)	316672	50.0000	51.2	
34 Bromochloromethane	128	5.376	5.376	(1.000)	388675	50.0000	49.4	
36 Dibromofluoromethane	111	5.531	5.531	(1.000)	862022	50.0000	49.6	5156
37 1,1,1-Trichloroethane	97	5.554	5.554	(0.925)	963530	50.0000	50.8	(MH)
38 Cyclohexane	56	5.548	5.548	(1.000)	1145878	50.0000	52.6	5017
39 Carbon Tetrachloride	117	5.645	5.645	(1.000)	797104	50.0000	52.6	
41 Chloroform +	83	5.410	5.410	(1.000)	1243020	50.0000	49.7	
42 1,1-Dichloropropene	75	5.657	5.657	(1.000)	951466	50.0000	50.0	
43 1,2-Dichloroethane-d4	67	5.789	5.789	(1.000)	364050	50.0000	48.7	
44 Benzene	78	5.812	5.812	(1.000)	2073683	50.0000	53.1	
46 1,2-Dichloroethane	62	5.846	5.846	(1.000)	796218	50.0000	50.9	
47 FLUOROBENZENE	96	6.006	6.006	(1.000)	2110767	50.0000		(M)
48 Total 1,2-Dichloroethene	61				1847431	100.000	101	
49 Trichloroethene	130	6.236	6.236	(1.000)	953464	50.0000	50.0	
50 Methyl Cyclohexane	83	6.327	6.327	(1.000)	1187815	50.0000	51.0	6271
51 1,2-Dichloropropane +	63	6.419	6.419	(1.000)	760701	50.0000	46.5	
52 Dibromomethane	93	6.499	6.499	(1.000)	649564	50.0000	50.2	
54 Bromodichloromethane	83	6.574	6.574	(1.000)	1122706	50.0000	48.5	
56 2-Chloroethyl vinyl ether	63	6.757	6.757	(1.000)	406334	50.0000	44.7	
57 cis-1,3-Dichloropropene	75	6.878	6.878	(1.000)	1161588	50.0000	49.6	(H)
58 4-methyl-2-pentanone	43	6.958	6.958	(1.000)	872148	50.0000	49.2	
59 Toluene-d8	98	7.038	7.038	(1.000)	1891411	50.0000	49.8	
60 Toluene +	91	7.090	7.090	(1.000)	2371645	50.0000	50.8	
61 trans-1,3-Dichloropropene	75	7.256	7.256	(1.000)	1056205	50.0000	50.2	
64 1,1,2-Trichloroethane	97	7.388	7.388	(1.000)	754842	50.0000	50.3	
65 Tetrachloroethene	164	7.451	7.451	(1.000)	628261	50.0000	50.2	
66 1,3-Dichloropropane	76	7.525	7.525	(1.000)	1228188	50.0000	50.0	
67 2-Hexanone	43	7.514	7.514	(1.000)	602842	50.0000	48.9	
68 Dibromochloromethane	129	7.657	7.657	(1.000)	984295	50.0000	49.9	
69 1,2-Dibromoethane(EDB)	107	7.777	7.777	(1.000)	984811	50.0000	49.6	
70 CHLOROBENZENE-d5	82	8.081	8.081	(1.000)	1074568	50.0000		(M)
71 Chlorobenzene ++	112	8.110	8.110	(1.000)	1615242	50.0000	51.5	
72 Ethylbenzene +	106	8.144	8.144	(1.000)	697053	50.0000	51.4	
73 1,1,1,2-Tetrachloroethane	133	8.155	8.155	(1.000)	713912	50.0000	52.6	
74 p,m-Xylene	106	8.236	8.236	(1.000)	2202410	100.000	105	(H)
75 o-Xylene	106	8.568	8.568	(1.000)	893523	50.0000	47.4	
76 Styrene	104	8.591	8.591	(1.000)	1599083	50.0000	47.9	
77 Bromoform ++	173	8.792	8.792	(1.000)	643823	50.0000	48.7	
78 Isopropylbenzene	105	8.866	8.866	(1.000)	2504817	50.0000	52.0	
79 Bromofluorobenzene	174	9.067	9.067	(1.000)	699353	50.0000	49.9	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
80	1,1,2,2-Tetrachloroethane++	83	9.164	9.164	(0.898)	721069	50.0000	46.9	
83	Bromobenzene	77	9.227	9.227	(0.904)	1896321	50.0000	50.3	
82	trans-1,4-Dichloro-2-Butene	53	9.239	9.239	(0.906)	235777	50.0000	51.0	
84	1,2,3-Trichloropropane	75	9.233	9.233	(0.905)	1315957	50.0000	51.9	
85	n-Propylbenzene	91	9.244	9.244	(0.906)	2962310	50.0000	51.7	
86	2-Chlorotoluene	91	9.376	9.376	(0.919)	2226359	50.0000	54.2	
87	1,3,5-Trimethylbenzene	105	9.405	9.405	(0.922)	1893543	50.0000	52.3	
89	4-Chlorotoluene	91	9.485	9.485	(0.930)	2002196	50.0000	48.3	
90	tert-butylbenzene	91	9.732	9.732	(0.954)	1441578	50.0000	51.8	
91	p-Isopropyltoluene	119	9.720	9.720	(0.953)	2075705	50.0000	51.8	
92	1,2,4-Trimethylbenzene	105	9.777	9.777	(0.958)	1705225	50.0000	52.8	
93	sec-Butylbenzene	105	9.944	9.944	(0.975)	2931880	50.0000	51.8	
95	1,3-Dichlorobenzene	146	10.133	10.133	(0.993)	1142499	50.0000	52.8	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.201	10.201	(1.000)	817390	50.0000		
97	1,4-Dichlorobenzene	146	10.224	10.224	(1.002)	1361829	50.0000	49.6	
98	TOTAL XYLENE	106				3095933	150.000	153	
99	n-Butylbenzene	91	10.522	10.522	(1.031)	1797893	50.0000	52.9	
101	1,2-Dichlorobenzene	146	10.643	10.643	(1.043)	1219435	50.0000	50.6	
105	1,2-Dibromo-3-Chloropropane	157	11.434	11.434	(1.121)	277687	50.0000	49.5	
107	1,2,4-Trichlorobenzene	180	12.173	12.173	(1.193)	520818	50.0000	49.4	
108	Hexachlorobutadiene	225	12.282	12.282	(1.204)	506312	50.0000	49.2	
109	Naphthalene	128	12.437	12.437	(1.219)	899226	50.0000	53.5	
110	1,2,3-Trichlorobenzene	180	12.677	12.677	(1.243)	500901	50.0000	54.3	

QC Flag Legend

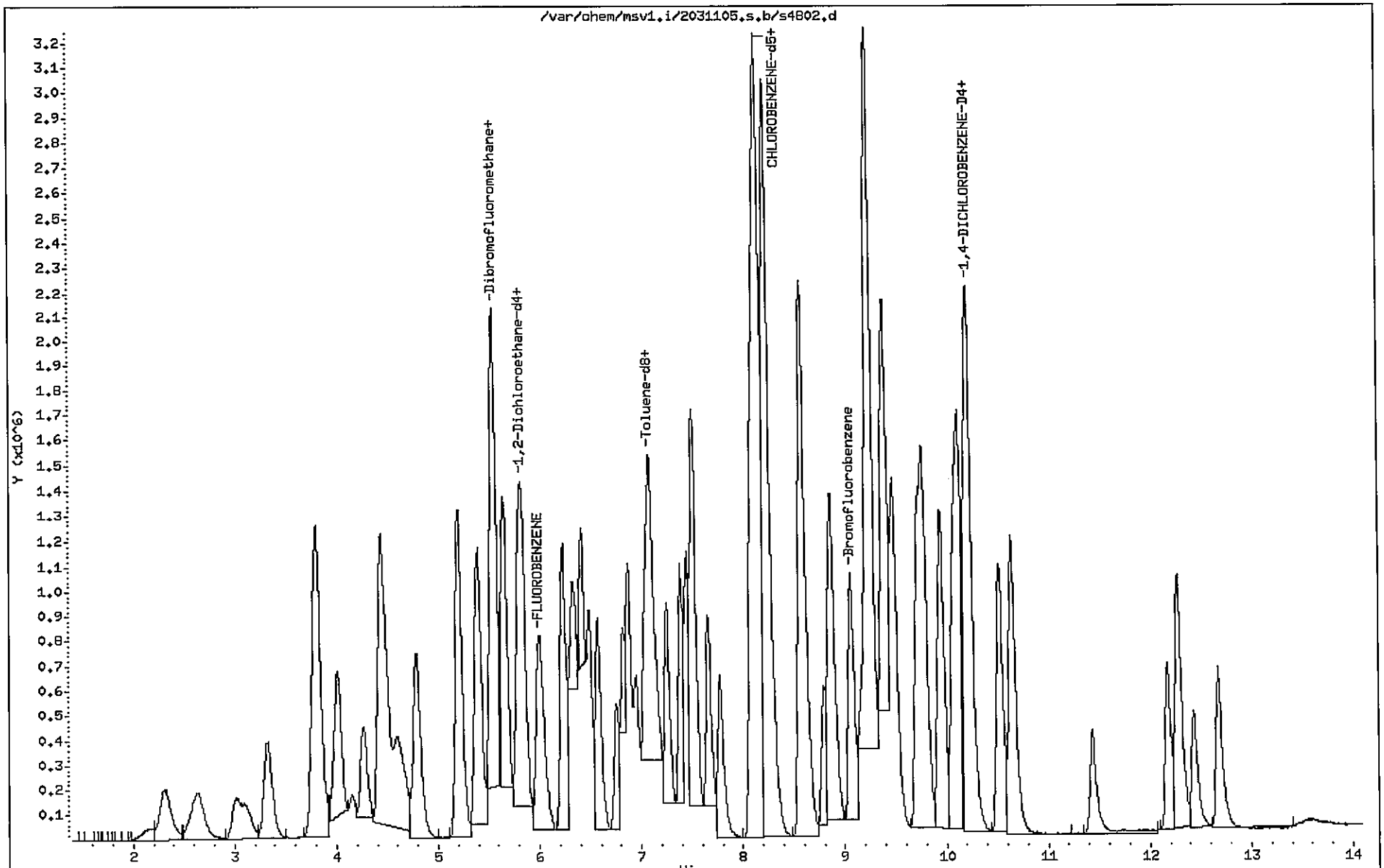
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4802.d
Date : 05-NOV-2003 16:11
Client ID: V1STD050 PPB
Sample Info: 1203*V1STD050 PPB*5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000244

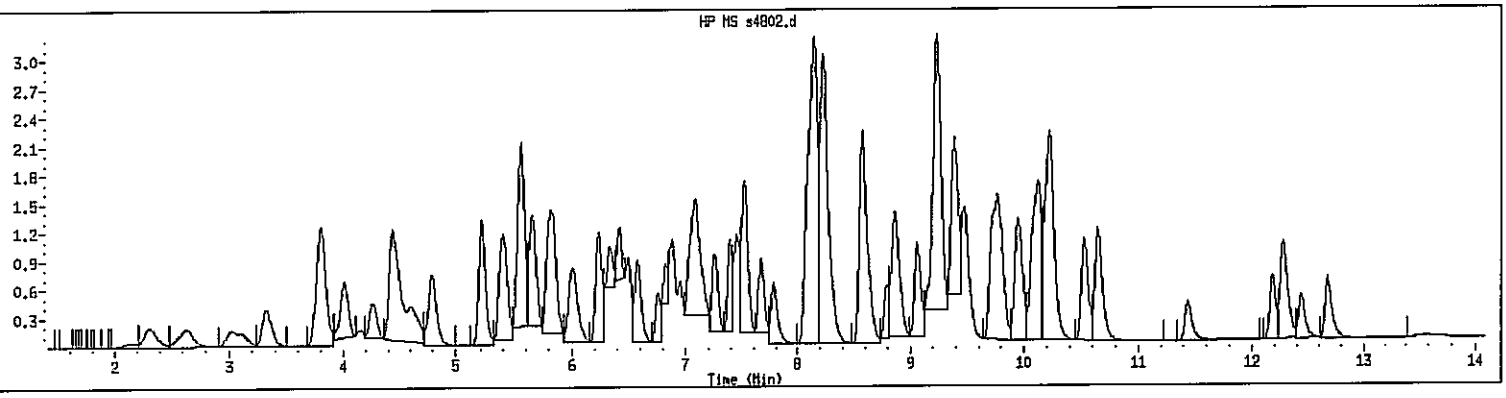


Data file : /var/chem/msv1.i/2031105.s.b/s4802.d
Report Date: 11/14/2003 09:50

MANUAL INTEGRATION GRAPHIC REPORT

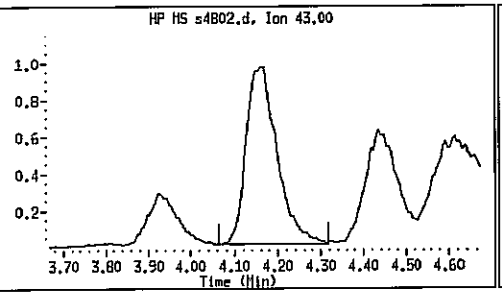
Lab ID : 1203
Injection Date: 05-NOV-2003 16:11
Operator : RSP
Sample Info : 1203*V1STD050 PPB*5-5-5
Misc Info : MSV~3939~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

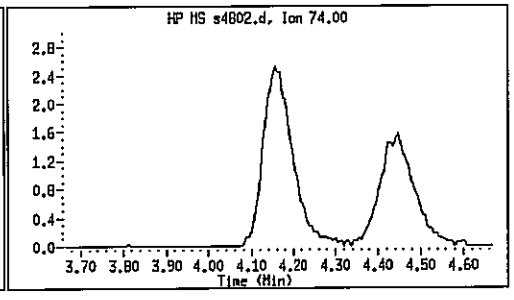
SampleType : CALIB_3
Instrument : msv1.i
Compound Sublist: 8260b



CONCENTRATIONS

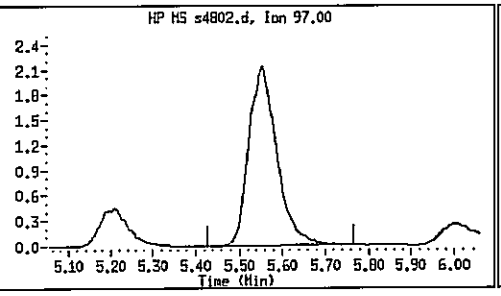
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
20 Methyl Acetate			CAS#: 79-20-9				
4.167	0.694	43	481067	50	50	80-120	100
4.167	0.694	74	24344			20- 30	5

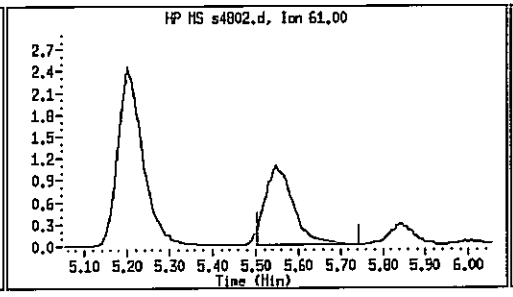


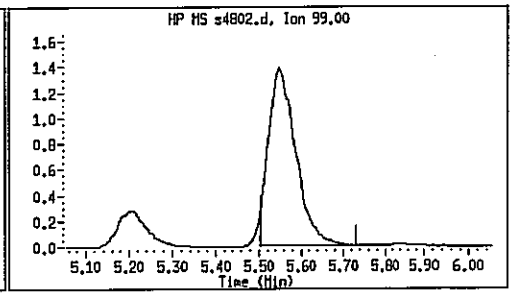


CONCENTRATIONS

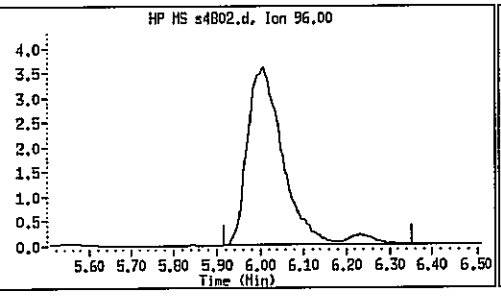
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
37 1,1,1-Trichloroethane				CAS#: 71-55-6			
5.554	0.925	97	963530	51	51	80-120	100
5.548	0.924	61	487815			41- 61	51
5.548	0.924	99	618247			51- 77	64

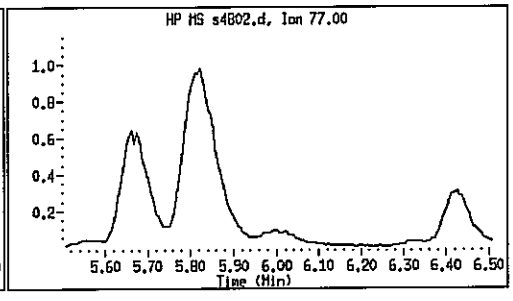




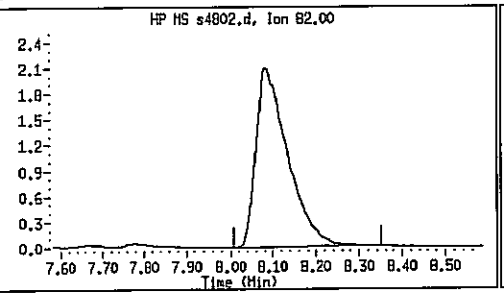


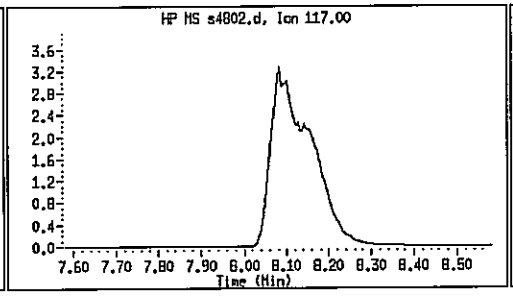
* 47 FLUOROBENZENE				CAS#: 462-06-6			
5.006	1.000	96	2110767	50	50	80-120	100
5.000	0.999	77	0			0- 0	0

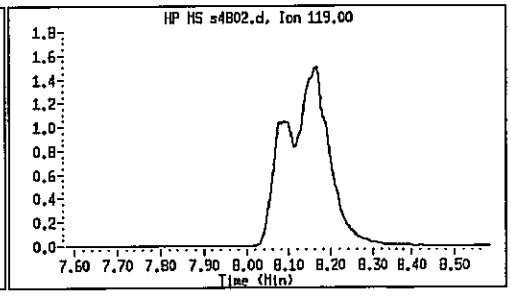




* 70 CHLOROBENZENE-d5				CAS#: 3114-55-4			
8.081	1.000	82	1074568	50	50	80-120	100
8.097	1.002	117	0			0- 0	0
8.097	1.002	119	0			0- 0	0

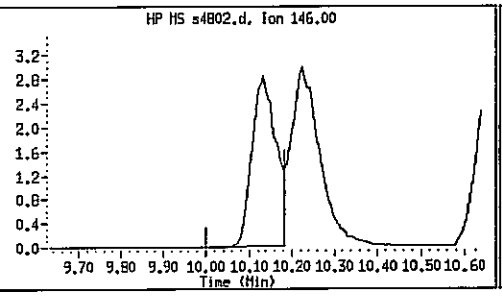


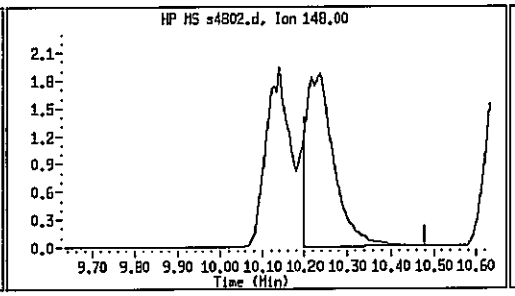


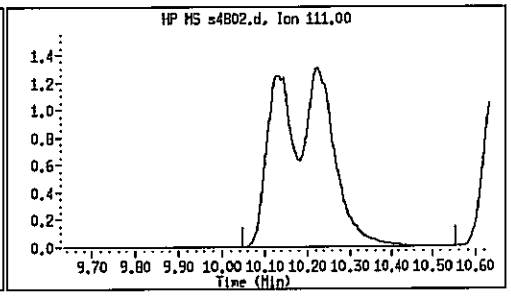


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
95 1,3-Dichlorobenzene				CAS#: 541-73-1			
10.133	0.993	146	1142499	53	53	80-120	100
10.236	1.003	148	807702			57- 85	71
10.224	1.002	111	1162786			81-122	102







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4803.d
Lab Smp Id: 1204 Client Smp ID: V1STD100 PPB
Inj Date : 05-NOV-2003 16:35
Operator : SAB Inst ID: msv1.i
Smp Info : 1204*V1STD100 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 16:35 Cal File: s4803.d
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.297	2.316	(1.000)	1370756	100.000	97.3	
2 Chloromethane ++	50	2.595	2.591	(1.000)	857076	100.000	97.3	
3 Vinyl Chloride +	62	2.635	2.665	(1.000)	984389	100.000	96.0	
5 Bromomethane	94	3.007	3.026	(1.000)	709581	100.000	91.9	
6 Chloroethane	64	3.099	3.124	(1.000)	564151	100.000	97.3	
7 Trichlorofluoromethane	101	3.311	3.330	(1.000)	1702076	100.000	98.5	
9 Acrolein	56	3.775	3.783	(1.000)	739354	500.000	551	(A)
10 1,1,2Trichlotrifluoroethane	101	3.781	3.800	(1.000)	1844290	100.000	96.7	
11 1,1-Dichloroethene +	96	3.804	3.817	(1.000)	943436	100.000	96.8	
12 Acetone	43	3.919	3.926	(1.000)	252584	100.000	96.4	
13 Methyl Iodide	142	3.976	4.001	(1.000)	2190571	100.000	107	
14 Carbon Disulfide	76	4.005	4.023	(1.000)	2796518	100.000	98.5	
17 Methylene Chloride	49	4.251	4.276	(1.000)	1441462	100.000	100	
19 trans-1,2-Dichloroethene	61	4.417	4.442	(1.000)	1532976	100.000	98.4	
20 Methyl Acetate	43	4.142	4.167	(1.000)	934324	100.000	99.9	2599(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
21 MTBE	73	4.434	4.442	(1.000)	3221773	100.000	99.8	5027
22 Acrylonitrile	53	4.486	4.493	(1.000)	1586844	500.000	487	(A)
23 Hexane	57	4.578	4.602	(1.000)	1533990	100.000	96.5	3227(H)
24 1,1-Dichloroethane ++	63	4.773	4.780	(1.000)	2082386	100.000	99.4	
25 Vinyl Acetate	43	4.784	4.803	(1.000)	2121660	100.000	105	
31 2,2-Dichloropropane	77	5.191	5.204	(1.000)	1587383	100.000	95.8	
30 cis-1,2-Dichloroethene	61	5.197	5.198	(1.000)	1945006	100.000	98.4	
32 2-Butanone	43	5.220	5.227	(1.000)	591860	100.000	99.1	
34 Bromochloromethane	128	5.369	5.376	(1.000)	774987	100.000	102	
36 Dibromofluoromethane	111	5.518	5.531	(1.000)	1666040	100.000	99.3	5149
37 1,1,1-Trichloroethane	97	5.546	5.554	(0.927)	1795230	100.000	97.9	(MH)
38 Cyclohexane	56	5.546	5.548	(1.000)	2057011	100.000	97.7	5013
39 Carbon Tetrachloride	117	5.632	5.645	(1.000)	1467345	100.000	100	
41 Chloroform +	83	5.403	5.410	(1.000)	2350121	100.000	97.2	
42 1,1-Dichloropropene	75	5.655	5.657	(0.945)	1836131	100.000	99.9	(M)
43 1,2-Dichloroethane-d4	67	5.775	5.789	(1.000)	707698	100.000	97.9	
44 Benzene	78	5.810	5.812	(1.000)	3876185	100.000	104	
46 1,2-Dichloroethane	62	5.833	5.846	(1.000)	1494286	100.000	98.9	
47 FLUOROBENZENE	96	5.982	6.006	(1.000)	2039779	50.0000		(M)
48 Total 1,2-Dichloroethene	61				3477982	200.000	197	
49 Trichloroethene	130	6.217	6.236	(1.000)	1793727	100.000	97.4	
50 Methyl Cyclohexane	83	6.320	6.327	(1.000)	2189500	100.000	97.3	6245
51 1,2-Dichloropropane +	63	6.417	6.419	(1.000)	1498964	100.000	94.9	
52 Dibromomethane	93	6.492	6.499	(1.000)	1262422	100.000	101	
54 Bromodichloromethane	83	6.566	6.574	(1.000)	2167113	100.000	96.9	
56 2-Chloroethyl vinyl ether	63	6.744	6.757	(1.000)	899096	100.000	102	
57 cis-1,3-Dichloropropene	75	6.882	6.878	(1.000)	2304564	100.000	102	(H)
58 4-methyl-2-pentanone	43	6.956	6.958	(1.000)	1742016	100.000	102	
59 Toluene-d8	98	7.036	7.038	(0.871)	3646080	100.000	94.1	
60 Toluene +	91	7.082	7.090	(0.877)	4470669	100.000	93.8	
61 trans-1,3-Dichloropropene	75	7.248	7.256	(0.897)	2104329	100.000	98.1	
64 1,1,2-Trichloroethane	97	7.386	7.388	(0.914)	1452675	100.000	95.0	
65 Tetrachloroethene	164	7.449	7.451	(0.922)	1169876	100.000	91.5	
66 1,3-Dichloropropane	76	7.518	7.525	(0.930)	2392700	100.000	95.4	
67 2-Hexanone	43	7.518	7.514	(0.930)	1176449	100.000	93.5	
68 Dibromochloromethane	129	7.655	7.657	(0.948)	1966093	100.000	97.6	
69 1,2-Dibromoethane(EDB)	107	7.776	7.777	(0.962)	1931536	100.000	95.4	
70 CHLOROBENZENE-d5	82	8.079	8.081	(1.000)	1096576	50.0000		
71 Chlorobenzene ++	112	8.102	8.110	(1.003)	3072446	100.000	96.0	
72 Ethylbenzene +	106	8.142	8.144	(1.008)	1394252	100.000	101	
73 1,1,1,2-Tetrachloroethane	133	8.154	8.155	(1.009)	1350231	100.000	97.4	
74 p,m-Xylene	106	8.234	8.236	(1.019)	4069734	200.000	191	
75 o-Xylene	106	8.578	8.568	(1.062)	1715815	100.000	89.2	
76 Styrene	104	8.589	8.591	(1.063)	3130989	100.000	91.9	
77 Bromoform ++	173	8.790	8.792	(1.088)	1266035	100.000	93.8	
78 Isopropylbenzene	105	8.870	8.866	(1.098)	4768238	100.000	97.9	
79 Bromofluorobenzene	174	9.071	9.067	(1.123)	1392925	100.000	97.4	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
80 1,1,2,2-Tetrachloroethane++	83	9.162	9.164	(0.898)	1377546	100.000	89.7	
83 Bromobenzene	77	9.226	9.227	(0.904)	3561729	100.000	94.5	
82 trans-1,4-Dichloro-2-Butene	53	9.220	9.239	(0.903)	459176	100.000	99.4	
84 1,2,3-Trichloropropane	75	9.237	9.233	(0.905)	2605905	100.000	103	
85 n-Propylbenzene	91	9.243	9.244	(0.906)	5643004	100.000	98.7	
86 2-Chlorotoluene	91	9.386	9.376	(0.920)	3978109	100.000	97.0	(M)
87 1,3,5-Trimethylbenzene	105	9.415	9.405	(0.922)	3438265	100.000	95.2	
89 4-Chlorotoluene	91	9.489	9.485	(0.930)	4020520	100.000	97.2	(M)
90 tert-butylbenzene	91	9.730	9.732	(0.953)	2755217	100.000	99.2	
91 p-Isopropyltoluene	119	9.730	9.720	(0.953)	3967108	100.000	99.1	
92 1,2,4-Trimethylbenzene	105	9.799	9.777	(0.960)	2964592	100.000	91.8	
93 sec-Butylbenzene	105	9.953	9.944	(0.975)	5738128	100.000	101	
95 1,3-Dichlorobenzene	146	10.142	10.133	(0.994)	2089975	100.000	96.6	(M)
96 1,4-DICHLOROBENZENE-D4	152	10.205	10.201	(1.000)	816435	50.0000		
97 1,4-Dichlorobenzene	146	10.240	10.224	(1.003)	2841605	100.000	104	(M)
98 TOTAL XYLENE	106				5785549	300.000	280	
99 n-Butylbenzene	91	10.521	10.522	(1.031)	3164031	100.000	93.2	
101 1,2-Dichlorobenzene	146	10.647	10.643	(1.043)	2403858	100.000	99.9	
105 1,2-Dibromo-3-Chloropropane	157	11.432	11.434	(1.120)	545208	100.000	96.2	
107 1,2,4-Trichlorobenzene	180	12.177	12.173	(1.193)	930896	100.000	88.5	
108 Hexachlorobutadiene	225	12.286	12.282	(1.204)	1038609	100.000	101	
109 Naphthalene	128	12.435	12.437	(1.218)	1531454	100.000	93.5	
110 1,2,3-Trichlorobenzene	180	12.676	12.677	(1.242)	875488	100.000	99.8	

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/msv1.i/2031105.s.b/s4803.d

Date : 05-NOV-2003 16:35

Client ID: V1STD100 PPB

Sample Info: 1204MV1STD100 PPBM5-5-5

Purge Volume: 5.0

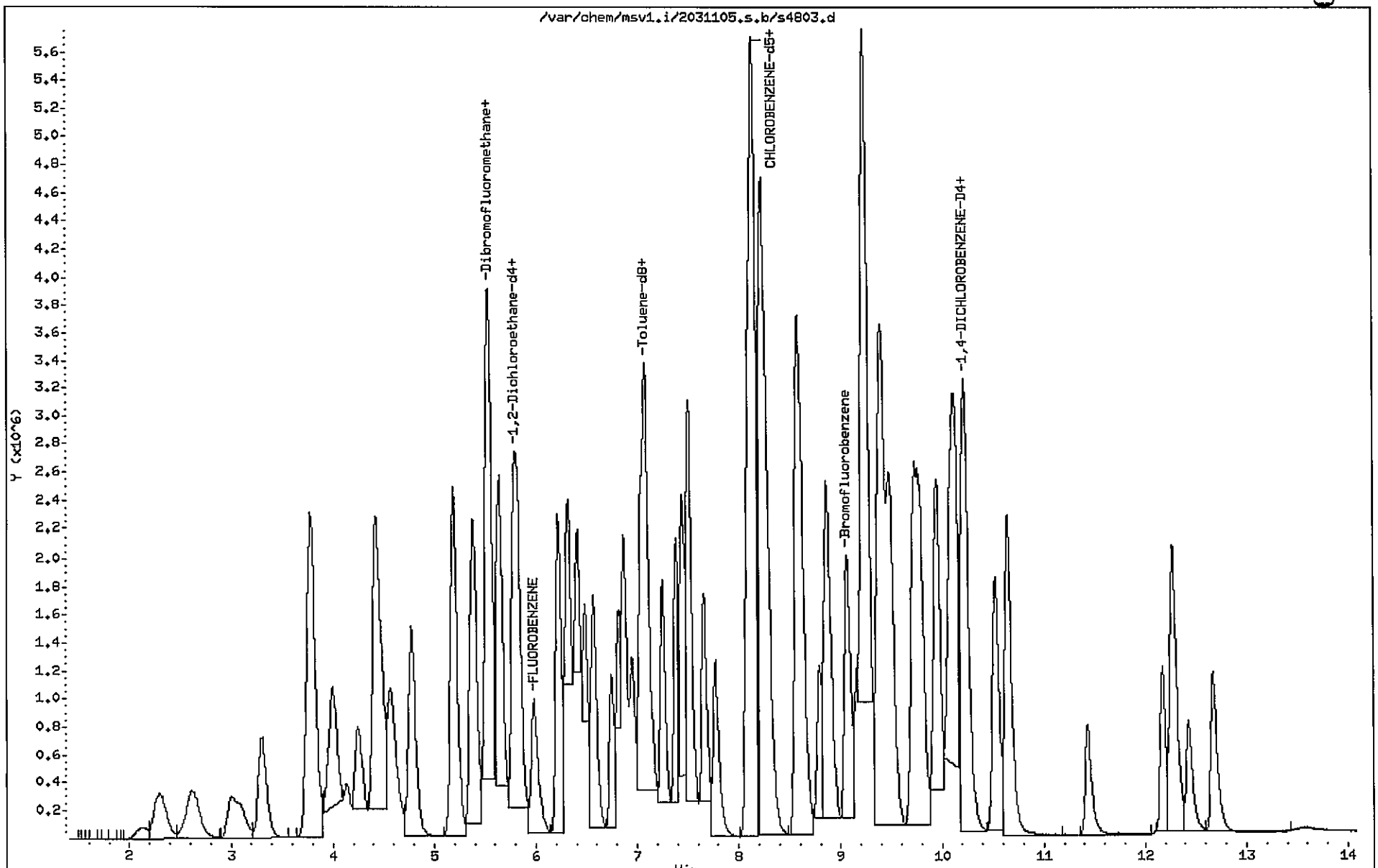
Column phase: DB-624-30M

Instrument: msv1.i

Operator: SAB

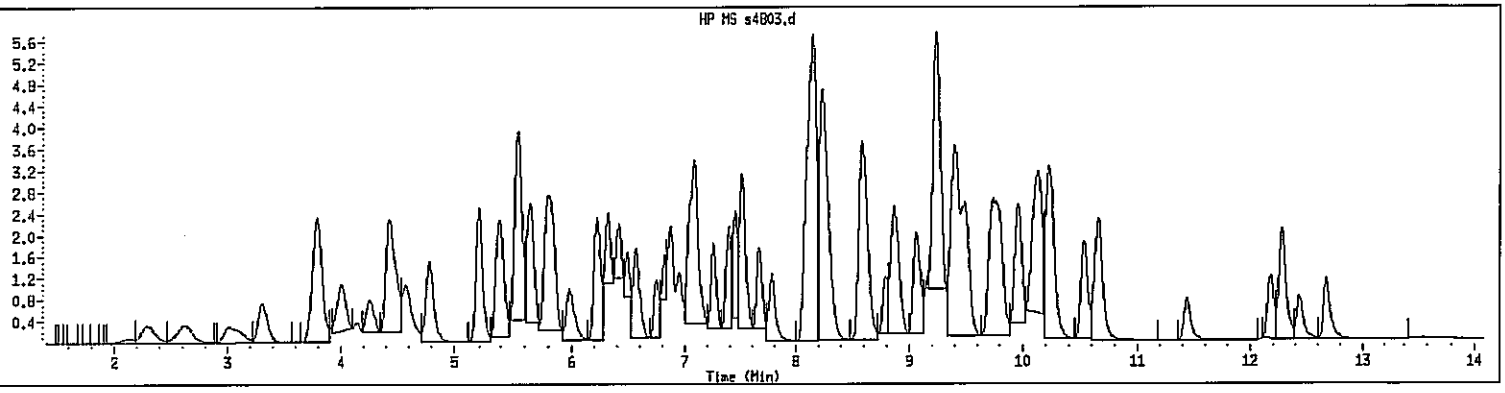
Column diameter: 0.53

000251



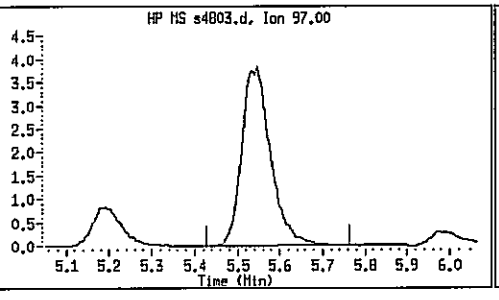
MANUAL INTEGRATION GRAPHIC REPORT

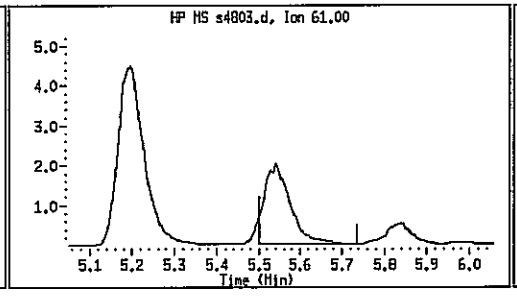
Lab ID : 1204 SampleType : CALIB_4
Injection Date: 05-NOV-2003 16:35 Instrument : msv1.i
Operator : SAB
Sample Info : 1204*V1STD100 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b

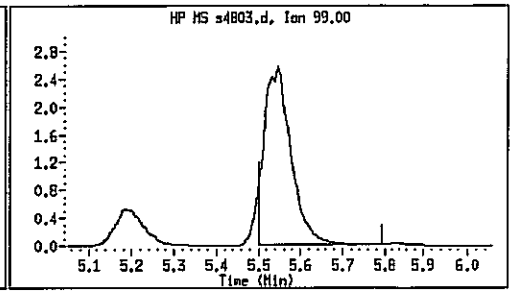


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
37 1,1,1-Trichloroethane				CAS#: 71-55-6			
.546	0.927	97	1795230	98	98	80-120	100
.540	0.926	61	867497			41- 61	48
.546	0.927	99	1116537			51- 77	62

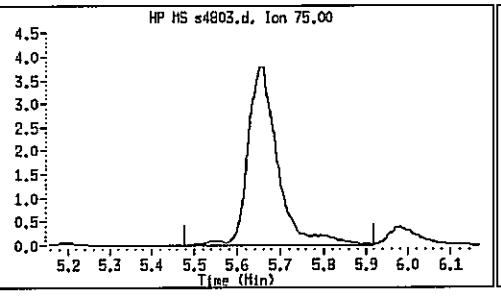


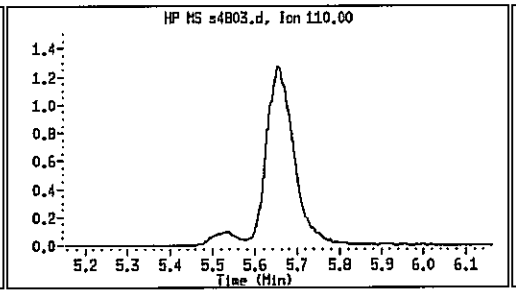


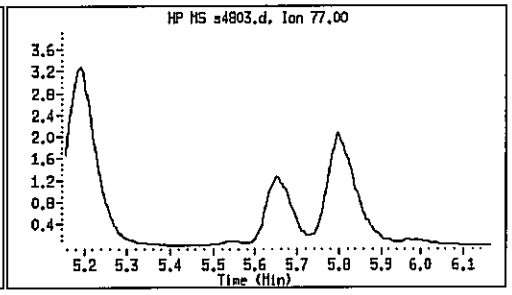


CONCENTRATIONS

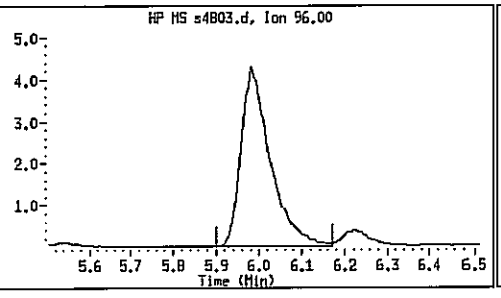
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
42 1,1-Dichloropropene				CAS#: 563-58-6			
5.655	0.945	75	1836131	100	100	80-120	100
5.888	1.151	110	0			26- 40	0
5.894	1.152	77	0			25- 38	0

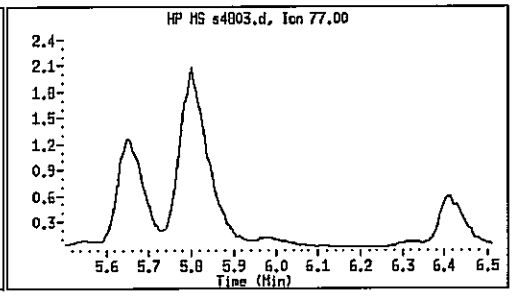




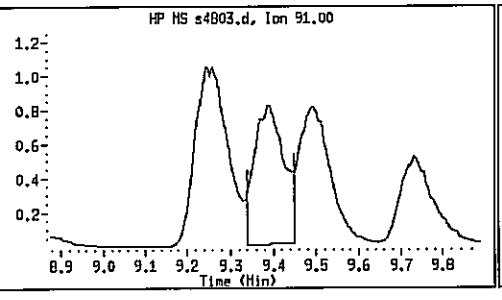


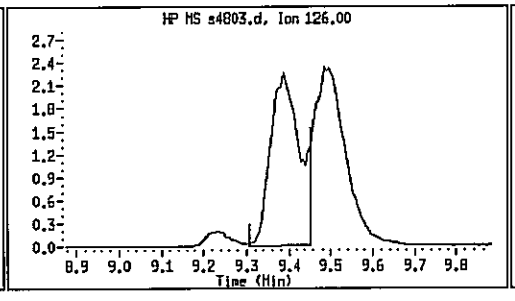
* 47 FLUOROBENZENE				CAS#: 462-06-6			
5.982	1.000	96	2039779	50	50	80-120	100
5.994	1.002	77	0			0- 0	0

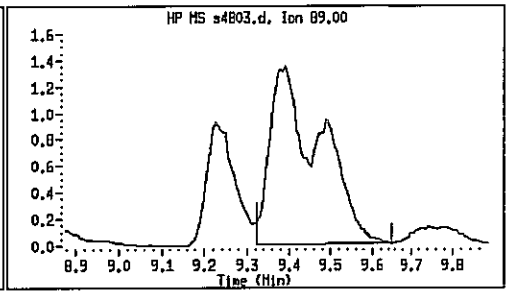




86 2-Chlorotoluene				CAS#: 95-49-8			
9.386	0.920	91	3978109	97	97	80-120	100
9.386	0.920	126	1114443			21- 32	28
9.392	0.920	89	1115244			21- 32	28

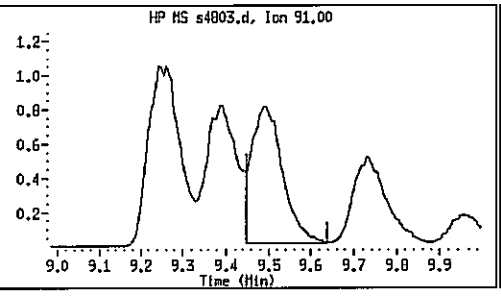


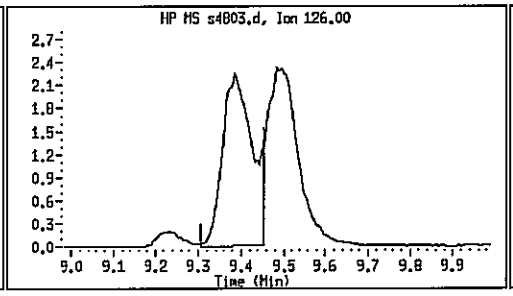


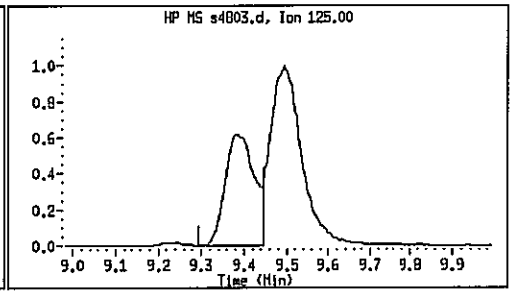


CONCENTRATIONS

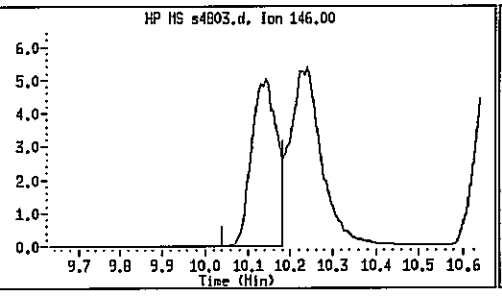
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 4-Chlorotoluene			CAS#: 106-43-4				
9.489	0.930	91	4020520	97	97	80-120	100
9.386	0.920	126	1114443			24- 36	28
9.386	0.920	125	294907			11- 16	7

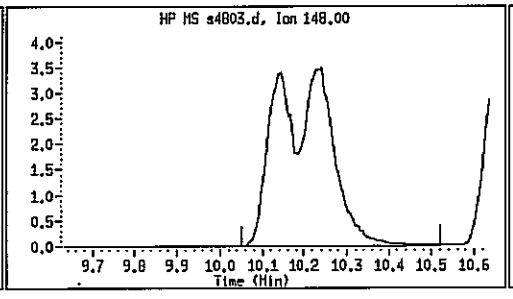


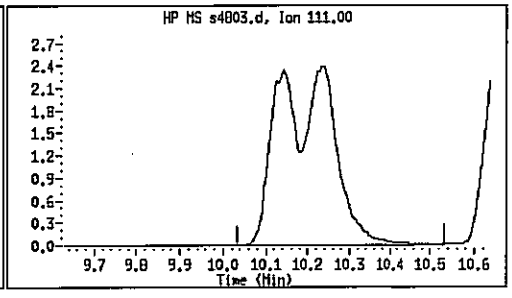




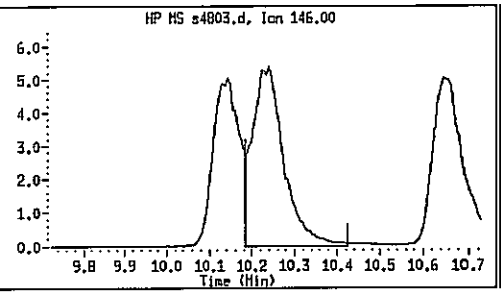
95 1,3-Dichlorobenzene			CAS#: 541-73-1				
10.142	0.994	146	2089975	97	97	80-120	100
10.240	1.003	148	3163197			57- 85	151
10.234	1.003	111	2219974			81-122	106

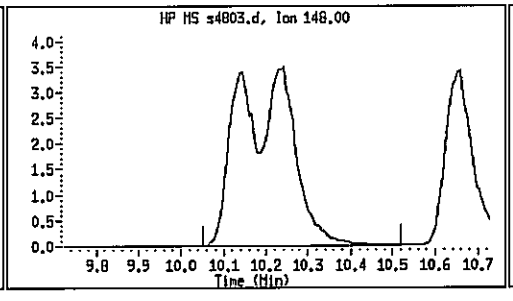


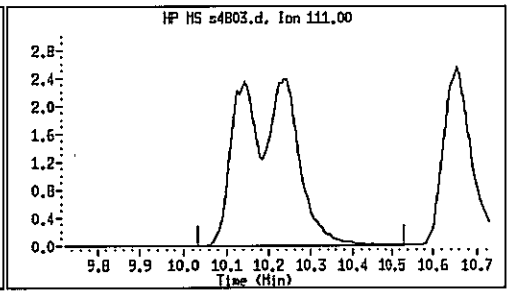




97 1,4-Dichlorobenzene			CAS#: 106-46-7				
10.240	1.003	146	2841605	104	104	80-120	100
10.240	1.003	148	3163197			47- 71	111
10.234	1.003	111	2219974			68-102	78







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4804.d
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Inj Date : 05-NOV-2003 16:58
Operator : HJL Inst ID: msv1.i
Smp Info : 1205*V1STD200 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
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Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.d
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.311	2.316	(1.000)	2888266	200.000	203	(A)
2 Chloromethane ++	50	2.581	2.591	(1.000)	1709082	200.000	193	
3 Vinyl Chloride +	62	2.672	2.665	(1.000)	2016373	200.000	195	
5 Bromomethane	94	3.005	3.026	(1.000)	1334857	200.000	172	
6 Chloroethane	64	3.085	3.124	(1.000)	836730	200.000	143	
7 Trichlorofluoromethane	101	3.297	3.330	(1.000)	3424662	200.000	197	
9 Acrolein	56	3.790	3.783	(1.000)	1508988	1000.00	1120	(A)
10 1,1,2Trichlotrifluoroethane	101	3.767	3.800	(1.000)	3724467	200.000	194	
11 1,1-Dichloroethene +	96	3.790	3.817	(1.000)	1848059	200.000	188	
12 Acetone	43	3.933	3.926	(1.000)	498779	200.000	189	
13 Methyl Iodide	142	3.996	4.001	(1.000)	4199758	200.000	204	(A)
14 Carbon Disulfide	76	4.025	4.023	(1.000)	5634610	200.000	197	
17 Methylene Chloride	49	4.260	4.276	(1.000)	2815169	200.000	194	
19 trans-1,2-Dichloroethene	61	4.426	4.442	(1.000)	2937056	200.000	187	
20 Methyl Acetate	43	4.151	4.167	(1.000)	1875212	200.000	199	2346(H)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
21 MTBE	73	4.426	4.442	(1.000)	6136619	200.000	189	4963
22 Acrylonitrile	53	4.495	4.493	(1.000)	3085868	1000.00	940	(A)
23 Hexane	57	4.586	4.602	(1.000)	2948029	200.000	184	3212(H)
24 1,1-Dichloroethane ++	63	4.770	4.780	(1.000)	4012020	200.000	190	
25 Vinyl Acetate	43	4.793	4.803	(1.000)	4316736	200.000	213	(A)
31 2,2-Dichloropropane	77	5.194	5.204	(1.000)	3116044	200.000	187	
30 cis-1,2-Dichloroethene	61	5.200	5.198	(1.000)	3756902	200.000	189	
32 2-Butanone	43	5.228	5.227	(1.000)	1143571	200.000	190	
34 Bromochloromethane	128	5.371	5.376	(1.000)	1462301	200.000	191	
36 Dibromofluoromethane	111	5.521	5.531	(1.000)	3165454	200.000	187	5300
37 1,1,1-Trichloroethane	97	5.549	5.554	(0.926)	3466655	200.000	188	(M)
38 Cyclohexane	56	5.555	5.548	(1.000)	3955009	200.000	186	4982
39 Carbon Tetrachloride	117	5.635	5.645	(1.000)	2976587	200.000	202	(A)
41 Chloroform +	83	5.400	5.410	(1.000)	4792352	200.000	197	
42 1,1-Dichloropropene	75	5.664	5.657	(1.000)	3503987	200.000	189	
43 1,2-Dichloroethane-d4	67	5.784	5.789	(1.000)	1351896	200.000	186	
44 Benzene	78	5.796	5.812	(1.000)	7325456	200.000	197	
46 1,2-Dichloroethane	62	5.836	5.846	(1.000)	2830427	200.000	186	
47 FLUOROBENZENE	96	5.990	6.006	(1.000)	2055498	50.0000		(M)
48 Total 1,2-Dichloroethene	61				6693958	400.000	376	
49 Trichloroethene	130	6.225	6.236	(1.000)	3370607	200.000	182	
50 Methyl Cyclohexane	83	6.334	6.327	(1.000)	4294680	200.000	189	6265
51 1,2-Dichloropropane +	63	6.420	6.419	(1.000)	3081681	200.000	194	
52 Dibromomethane	93	6.500	6.499	(1.000)	2368378	200.000	188	
54 Bromodichloromethane	83	6.575	6.574	(1.000)	4205376	200.000	187	
56 2-Chloroethyl vinyl ether	63	6.753	6.757	(1.000)	1761594	200.000	199	
57 cis-1,3-Dichloropropene	75	6.884	6.878	(1.000)	4304869	200.000	189	(H)
58 4-methyl-2-pentanone	43	6.953	6.958	(1.000)	3422333	200.000	198	
59 Toluene-d8	98	7.045	7.038	(1.000)	6868377	200.000	195	
60 Toluene +	91	7.096	7.090	(1.000)	8345432	200.000	192	
61 trans-1,3-Dichloropropene	75	7.257	7.256	(1.000)	4093939	200.000	210	(A)
64 1,1,2-Trichloroethane	97	7.395	7.388	(1.000)	2763802	200.000	199	
65 Tetrachloroethene	164	7.452	7.451	(1.000)	2250875	200.000	194	
66 1,3-Dichloropropane	76	7.515	7.525	(1.000)	4519470	200.000	198	
67 2-Hexanone	43	7.515	7.514	(1.000)	2219652	200.000	194	
68 Dibromochloromethane	129	7.658	7.657	(1.000)	3737235	200.000	204	(A)
69 1,2-Dibromoethane(EDB)	107	7.779	7.777	(1.000)	3662010	200.000	199	
70 CHLOROBENZENE-d5	82	8.082	8.081	(1.000)	997395	50.0000		(M)
71 Chlorobenzene ++	112	8.111	8.110	(1.000)	5062143	200.000	174	
72 Ethylbenzene +	106	8.151	8.144	(1.000)	2158028	200.000	171	
73 1,1,1,2-Tetrachloroethane	133	8.162	8.155	(1.000)	2167069	200.000	172	
74 p,m-Xylene	106	8.248	8.236	(1.000)	6588012	400.000	340	(A)
75 o-Xylene	106	8.569	8.568	(1.000)	3223821	200.000	184	
76 Styrene	104	8.598	8.591	(1.000)	5782942	200.000	187	
77 Bromoform ++	173	8.799	8.792	(1.000)	2491493	200.000	203	(A)
78 Isopropylbenzene	105	8.879	8.866	(1.000)	8844068	200.000	201	(A)
79 Bromofluorobenzene	174	9.062	9.067	(1.000)	2614543	200.000	201	(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
80	1,1,2,2-Tetrachloroethane++	83	9.171	9.164	(0.898)	2856461	200.000	195	
83	Bromobenzene	77	9.234	9.227	(0.904)	7265947	200.000	202	(A)
82	trans-1,4-Dichloro-2-Butene	53	9.228	9.239	(0.903)	846775	200.000	192	
84	1,2,3-Trichloropropane	75	9.246	9.233	(0.905)	4733096	200.000	196	
85	n-Propylbenzene	91	9.257	9.244	(0.906)	9583367	200.000	176	
86	2-Chlorotoluene	91	9.389	9.376	(0.919)	6990422	200.000	179	(M)
87	1,3,5-Trimethylbenzene	105	9.418	9.405	(0.922)	5287178	200.000	154	
89	4-Chlorotoluene	91	9.498	9.485	(0.930)	8150146	200.000	207	(AM)
90	tert-butylbenzene	91	9.738	9.732	(0.953)	4970125	200.000	188	
91	p-Isopropyltoluene	119	9.733	9.720	(0.953)	7169289	200.000	188	
92	1,2,4-Trimethylbenzene	105	9.802	9.777	(0.960)	4578747	200.000	149	
93	sec-Butylbenzene	105	9.956	9.944	(0.975)	10391823	200.000	193	
95	1,3-Dichlorobenzene	146	10.134	10.133	(0.992)	3770180	200.000	183	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.214	10.201	(1.000)	777746	50.0000		
97	1,4-Dichlorobenzene	146	10.231	10.224	(1.002)	5125229	200.000	196	(M)
98	TOTAL XYLENE	106				9811833	600.000	524	
99	n-Butylbenzene	91	10.529	10.522	(1.031)	5364956	200.000	166	
101	1,2-Dichlorobenzene	146	10.650	10.643	(1.043)	4356522	200.000	190	
105	1,2-Dibromo-3-Chloropropane	157	11.435	11.434	(1.119)	1097489	200.000	202	(A)
107	1,2,4-Trichlorobenzene	180	12.174	12.173	(1.192)	1689173	200.000	169	
108	Hexachlorobutadiene	225	12.277	12.282	(1.202)	1890976	200.000	193	
109	Naphthalene	128	12.432	12.437	(1.217)	3092157	200.000	202	(A)
110	1,2,3-Trichlorobenzene	180	12.673	12.677	(1.241)	1613125	200.000	199	

QC Flag Legend

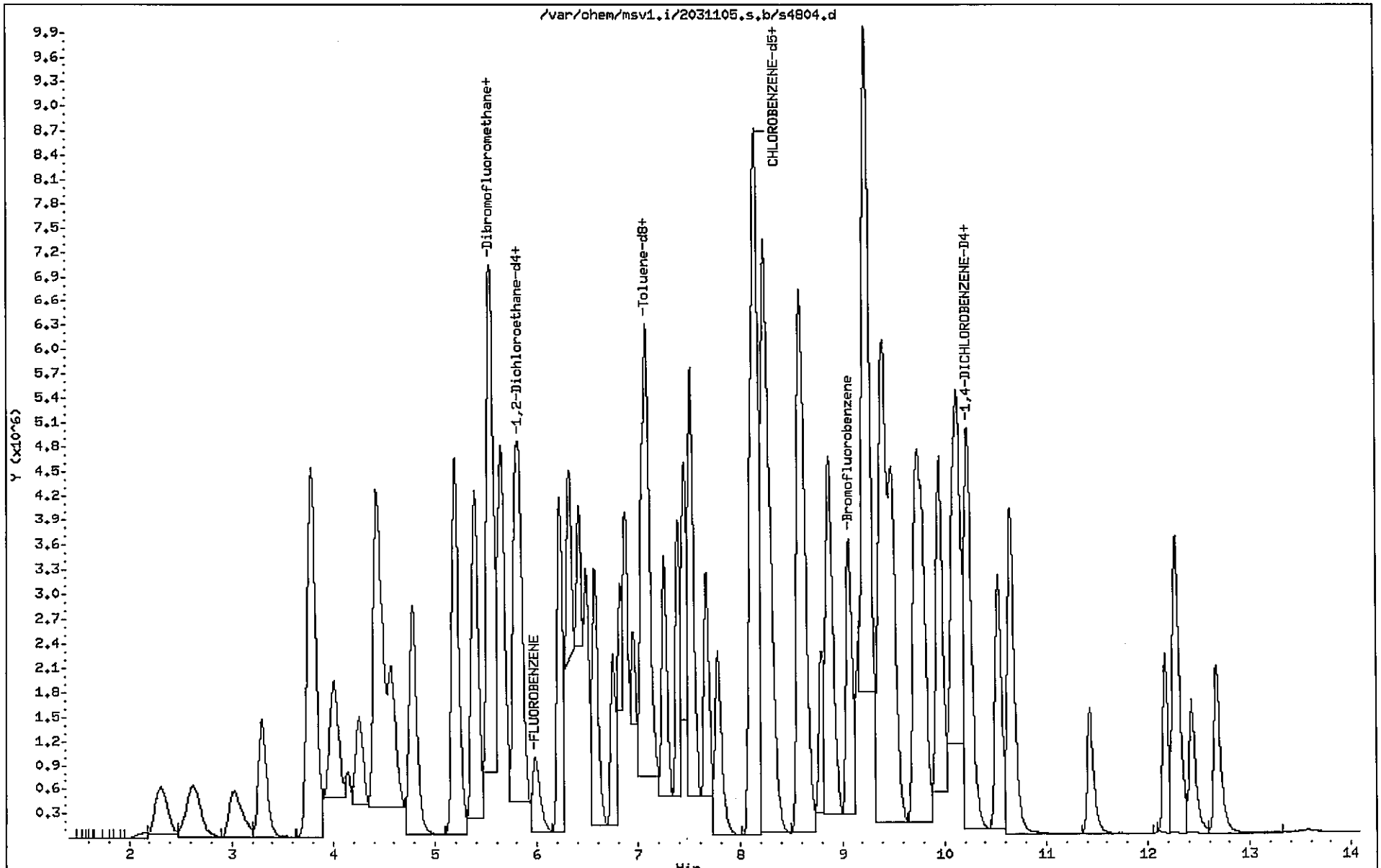
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4804.d
Date : 05-NOV-2003 16:58
Client ID: V1STD200 PPB
Sample Info: 1205WV1STD200 PPBW5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: HJL
Column diameter: 0.53

000258

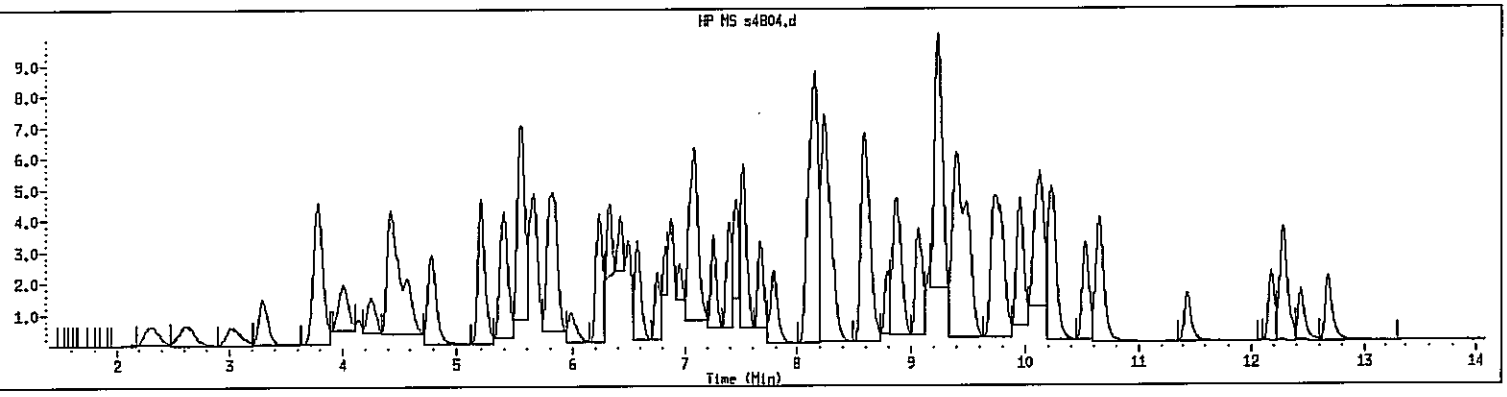


Data file : /var/chem/msv1.i/2031105.s.b/s4804.d
Report Date: 11/14/2003 09:50

MANUAL INTEGRATION GRAPHIC REPORT

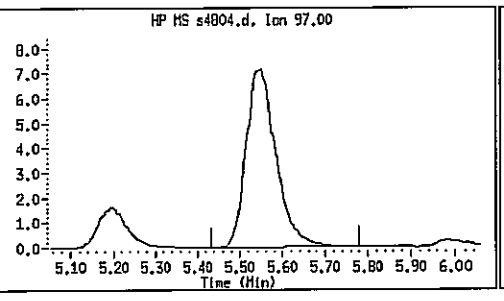
Lab ID : 1205
Injection Date: 05-NOV-2003 16:58
Operator : HJL
Sample Info : 1205*V1STD200 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

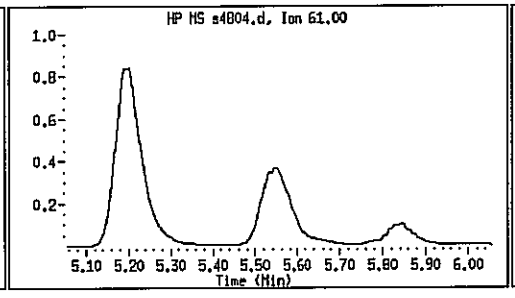
SampleType : CALIB_5
Instrument : msv1.i
Compound Sublist: 8260b

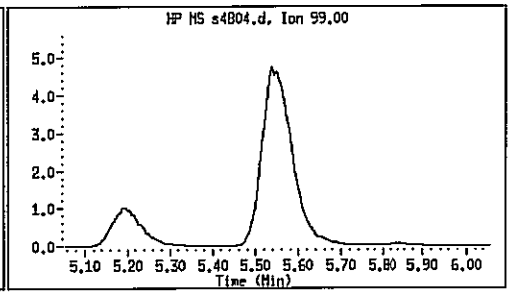


CONCENTRATIONS

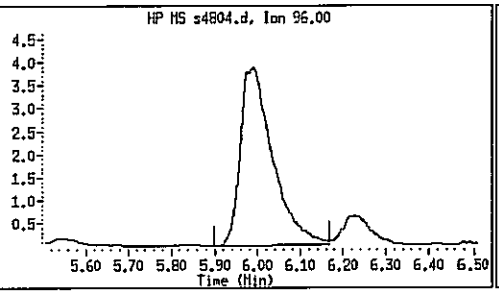
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
37 1,1,1-Trichloroethane				CAS#: 71-55-6			
5.549	0.926	97	3466655	188	188	80-120	100
5.225	1.039	61	133007			41- 61	4
5.220	1.038	99	682740			51- 77	20

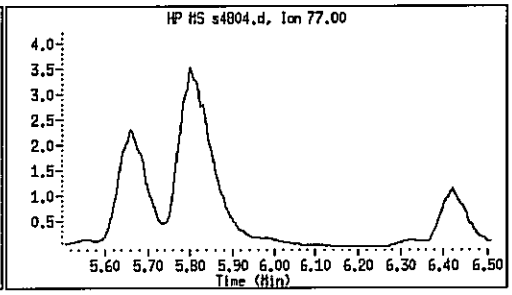




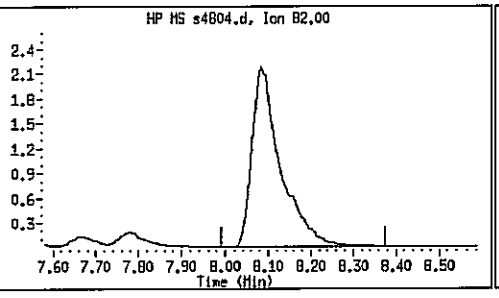


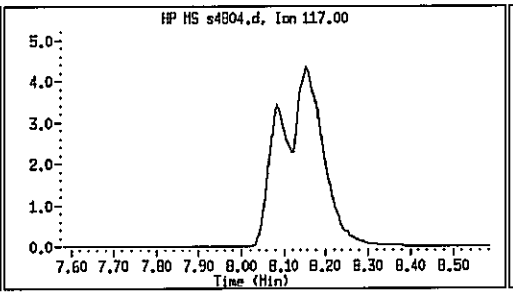
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
5.990	1.000	96	2055498	50	50	80-120	100
5.982	0.999	77	0			0- 0	0

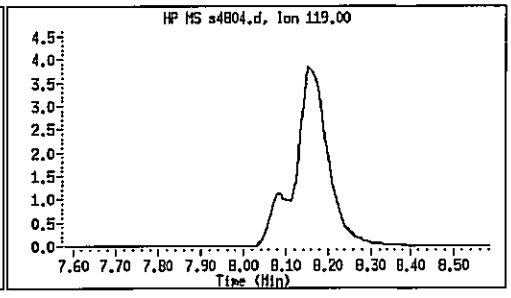




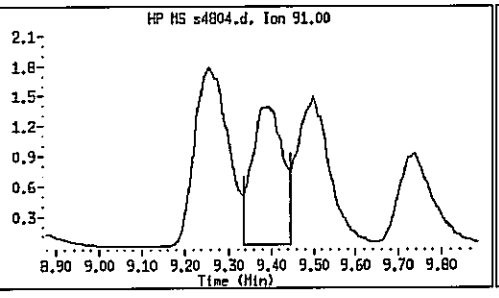
* 70 CHLOROBENZENE-d5			CAS#: 3114-55-4				
8.082	1.000	82	997395	50	50	80-120	100
8.079	1.000	117	0			0- 0	0
8.079	1.000	119	0			0- 0	0

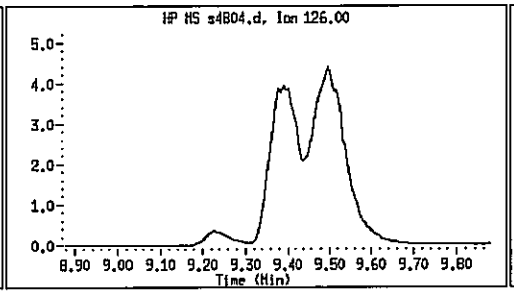


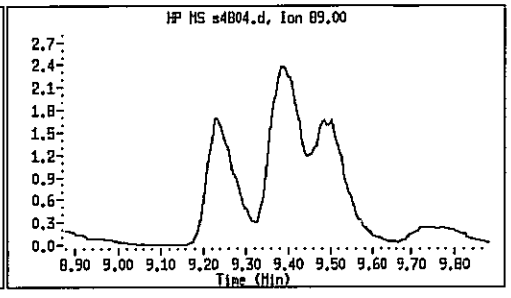




86 2-Chlorotoluene			CAS#: 95-49-8				
9.389	0.919	91	6990422	179	179	80-120	100
9.386	0.919	126	0			21- 32	0
9.386	0.919	89	0			21- 32	0

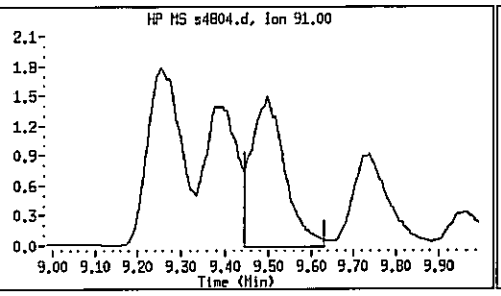


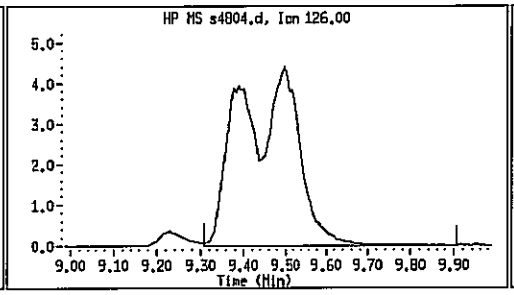


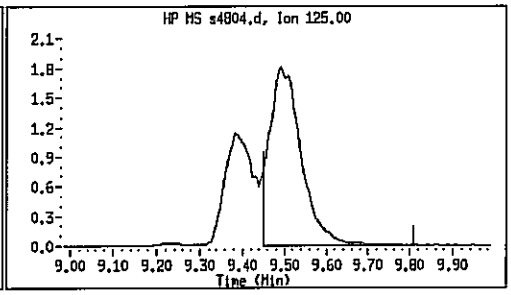


CONCENTRATIONS

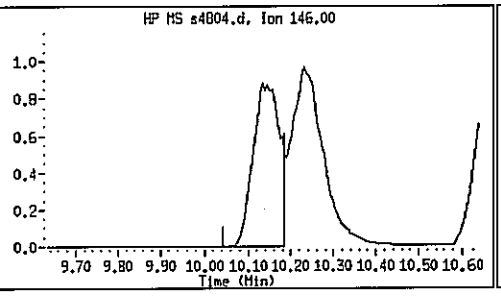
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 4-Chlorotoluene			CAS#: 106-43-4				
9.498	0.930	91	8150146	207	207	80-120	100
9.498	0.930	126	4208906			24- 36	52
9.492	0.929	125	940981			11- 16	12

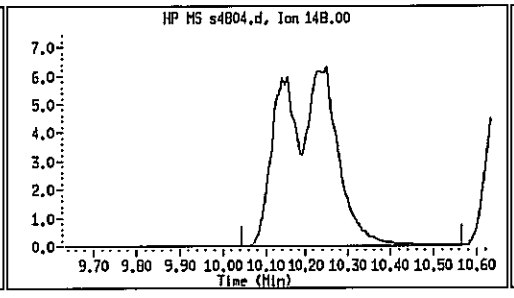


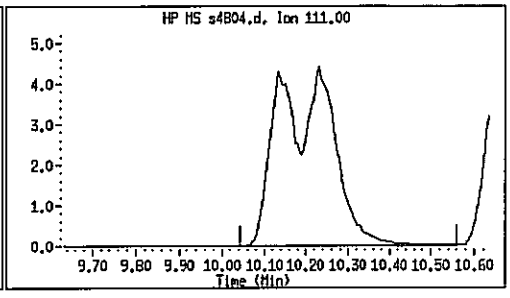




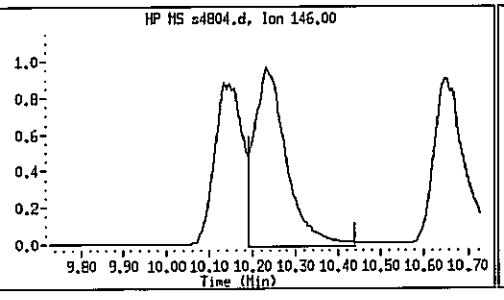
95 1,3-Dichlorobenzene			CAS#: 541-73-1				
10.134	0.992	146	3770180	183	183	80-120	100
10.249	1.003	148	5695468			57- 85	151
10.231	1.002	111	3961803			81-122	105

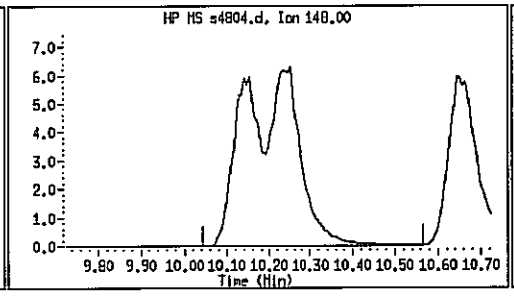


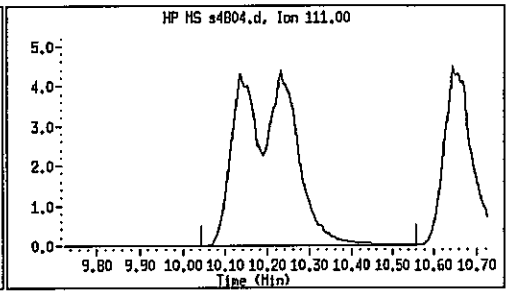




97 1,4-Dichlorobenzene			CAS#: 106-46-7				
10.231	1.002	146	5125229	196	196	80-120	100
10.249	1.003	148	5695468			47- 71	111
10.231	1.002	111	3961803			68-102	77







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4799.d
Lab Smp Id: 1206 Client Smp ID: V1STD002
Inj Date : 05-NOV-2003 15:01
Operator : RSP Inst ID: msv1.i
Smp Info : 1206*V1STD002 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 15:01 Cal File: s4799.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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	2.314	2.316	(0.387)	33666	2.00000	2.41	(a)
2 Chloromethane ++	50	2.595	2.591	(0.434)	19995	2.00000	2.30	(a)
3 Vinyl Chloride +	62	2.641	2.665	(0.441)	21912	2.00000	2.16	(a)
5 Bromomethane	94	3.025	3.026	(0.506)	19798	2.00000	2.59	(a)
6 Chloroethane	64	3.105	3.124	(0.519)	11614	2.00000	2.02	(a)
7 Trichlorofluoromethane	101	3.323	3.330	(0.555)	40833	2.00000	2.39	(a)
9 Acrolein	56	3.776	3.783	(0.631)	11178	10.0000	8.43	
10 1,1,2Trichlotrifluoroethane	101	3.793	3.800	(0.634)	46737	2.00000	2.48	(a)
11 1,1-Dichloroethene +	96	3.816	3.817	(0.638)	23366	2.00000	2.42	(a)
12 Acetone	43	3.993	3.926	(0.668)	1916	2.00000	0.739	(a)
13 Methyl Iodide	142	3.993	4.001	(0.668)	41407	2.00000	2.05	(a)
17 Methylene Chloride	49	4.274	4.276	(0.714)	34687	2.00000	2.43	(a)
19 trans-1,2-Dichloroethene	61	4.435	4.442	(0.741)	35582	2.00000	2.31	(a)
20 Methyl Acetate	43	4.160	4.167	(0.695)	22713	2.00000	2.46	1858(aMH)
21 MTBE	73	4.429	4.442	(0.740)	77543	2.00000	2.43	5358(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
22 Acrylonitrile	53	4.492	4.493	(0.751)	37704	10.0000	11.7	
23 Hexane	57	4.595	4.602	(0.768)	39780	2.00000	2.53	0 (aM)
24 1,1-Dichloroethane ++	63	4.773	4.780	(0.798)	47058	2.00000	2.27	(a)
25 Vinyl Acetate	43	4.796	4.803	(0.802)	44384	2.00000	2.23	(a)
31 2,2-Dichloropropane	77	5.191	5.204	(0.868)	42014	2.00000	2.56	(a)
30 cis-1,2-Dichloroethene	61	5.197	5.198	(0.869)	45611	2.00000	2.33	(a)
32 2-Butanone	43	5.220	5.227	(0.873)	16609	2.00000	2.81	(a)
34 Bromochloromethane	128	5.386	5.376	(0.900)	16463	2.00000	2.19	(a)
36 Dibromofluoromethane	111	5.535	5.531	(0.925)	41323	50.0000	2.49	4961 (a)
38 Cyclohexane	56	5.541	5.548	(0.926)	53355	2.00000	2.56	5019 (a)
39 Carbon Tetrachloride	117	5.644	5.645	(0.943)	25021	2.00000	1.73	(a)
41 Chloroform +	83	5.403	5.410	(0.903)	55548	2.00000	2.32	(a)
42 1,1-Dichloropropene	75	5.650	5.657	(0.944)	43296	2.00000	2.38	(a)
43 1,2-Dichloroethane-d4	67	5.787	5.789	(0.967)	18214	50.0000	2.55	(a)
44 Benzene	78	5.804	5.812	(0.970)	100005	2.00000	1.13	(a)
46 1,2-Dichloroethane	62	5.988	5.846	(1.001)	28529	2.00000	1.91	(a)
47 FLUOROBENZENE	96	5.982	6.006	(1.000)	2018038	50.0000		
48 Total 1,2-Dichloroethene	61				81193	4.00000	4.64	(a)
49 Trichloroethene	130	6.228	6.236	(1.041)	41103	2.00000	2.26	(a)
50 Methyl Cyclohexane	83	6.320	6.327	(1.057)	53981	2.00000	2.42	6183 (a)
51 1,2-Dichloropropane +	63	6.418	6.419	(1.073)	37651	2.00000	2.41	(a)
52 Dibromomethane	93	6.504	6.499	(1.087)	28775	2.00000	2.33	(a)
54 Bromodichloromethane	83	6.584	6.574	(1.101)	50312	2.00000	2.27	(a)
56 2-Chloroethyl vinyl ether	63	6.750	6.757	(1.128)	21440	2.00000	2.47	(a)
57 cis-1,3-Dichloropropene	75	6.882	6.878	(1.150)	51168	2.00000	2.39	(a)
58 4-methyl-2-pentanone	43	6.973	6.958	(1.166)	46180	2.00000	2.72	(a)
59 Toluene-d8	98	7.054	7.038	(0.871)	91557	50.0000	2.45	(a)
60 Toluene +	91	7.094	7.090	(0.876)	115917	2.00000	2.52	(a)
61 trans-1,3-Dichloropropene	75	6.882	7.256	(0.850)	51168	2.00000	2.48	(a)
64 1,1,2-Trichloroethane	97	7.403	7.388	(0.914)	36927	2.00000	2.51	(a)
65 Tetrachloroethene	164	7.466	7.451	(0.922)	28461	2.00000	2.31	(a)
66 1,3-Dichloropropane	76	7.524	7.525	(0.929)	57863	2.00000	2.40	(a)
67 2-Hexanone	43	7.535	7.514	(0.931)	35136	2.00000	2.90	(a)
68 Dibromochloromethane	129	7.673	7.657	(0.948)	42192	2.00000	2.17	(a)
69 1,2-Dibromoethane(EDB)	107	7.787	7.777	(0.962)	42263	2.00000	2.17	(a)
70 CHLOROBENZENE-d5	82	8.097	8.081	(1.000)	1055980	50.0000		
71 Chlorobenzene ++	112	8.125	8.110	(1.004)	81959	2.00000	2.66	(a)
72 Ethylbenzene +	106	8.166	8.144	(1.008)	29959	2.00000	2.25	(a)
74 p,m-Xylene	106	8.257	8.236	(1.020)	106275	4.00000	5.18	
75 o-Xylene	106	8.595	8.568	(1.062)	47635	2.00000	2.57	(a)
76 Styrene	104	8.607	8.591	(1.063)	82214	2.00000	2.51	(a)
77 Bromoform ++	173	8.819	8.792	(1.089)	29803	2.00000	2.29	(a)
78 Isopropylbenzene	105	8.888	8.866	(1.098)	132063	2.00000	1.85	(a)
79 Bromofluorobenzene	174	9.094	9.067	(1.123)	36324	50.0000	2.64	(a)
80 1,1,2,2-Tetrachloroethane++	83	9.186	9.164	(0.898)	38794	2.00000	2.61	(a)
83 Bromobenzene	77	9.249	9.227	(0.904)	103649	2.00000	2.85	(a)
82 trans-1,4-Dichloro-2-Butene	53	9.249	9.239	(0.904)	11219	2.00000	2.51	(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
84	1,2,3-Trichloropropane	75	9.254	9.233	(0.905)	64540	2.00000	2.64	(a)
85	n-Propylbenzene	91	9.260	9.244	(0.905)	151373	2.00000	2.74	(a)
86	2-Chlorotoluene	91	9.409	9.376	(0.920)	219470	2.00000	5.54	
87	1,3,5-Trimethylbenzene	105	9.421	9.405	(0.921)	98789	2.00000	2.83	(a)
89	4-Chlorotoluene	91	9.409	9.485	(0.920)	219470	2.00000	5.49	
90	tert-butylbenzene	91	9.747	9.732	(0.953)	71808	2.00000	2.67	(a)
91	p-Isopropyltoluene	119	9.759	9.720	(0.954)	104717	2.00000	2.71	(a)
92	1,2,4-Trimethylbenzene	105	9.816	9.777	(0.960)	81590	2.00000	2.61	(a)
93	sec-Butylbenzene	105	9.965	9.944	(0.974)	134677	2.00000	2.46	(a)
95	1,3-Dichlorobenzene	146	10.246	10.133	(1.002)	112015	2.00000	5.36	
96	1,4-DICHLOROBENZENE-D4	152	10.229	10.201	(1.000)	789260	50.0000		
97	1,4-Dichlorobenzene	146	10.246	10.224	(1.002)	112015	2.00000	4.22	(a)
98	TOTAL XYLENE	106				153910	6.00000	7.75	
99	n-Butylbenzene	91	10.538	10.522	(1.030)	71276	2.00000	2.17	(a)
101	1,2-Dichlorobenzene	146	10.664	10.643	(1.043)	56835	2.00000	2.44	(a)
105	1,2-Dibromo-3-Chloropropane	157	11.449	11.434	(1.119)	10603	2.00000	3.08	(aM)
107	1,2,4-Trichlorobenzene	180	12.183	12.173	(1.191)	19861	2.00000	1.95	(a)
108	Hexachlorobutadiene	225	12.303	12.282	(1.203)	22177	2.00000	2.23	(a)

QC Flag Legend

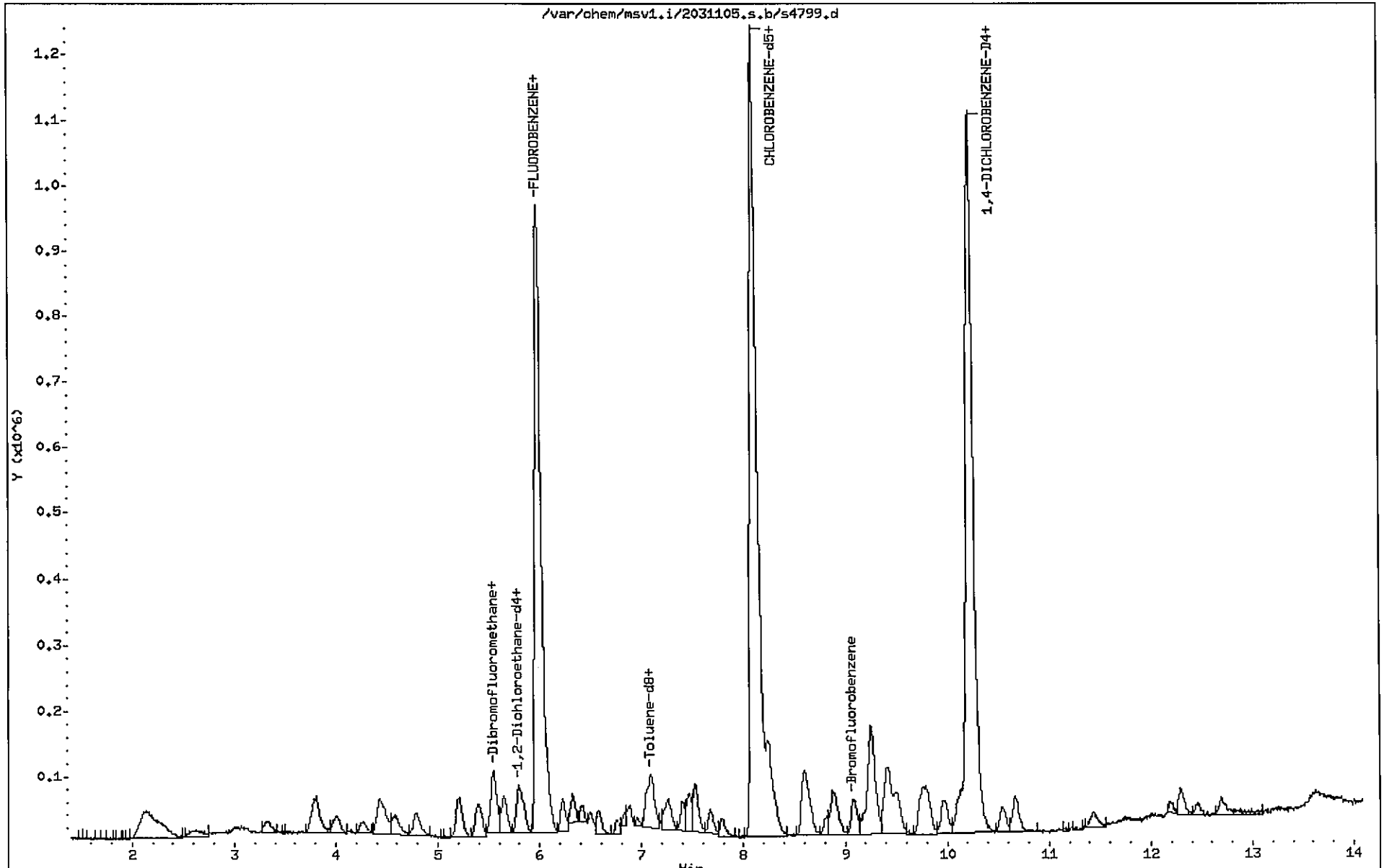
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
I - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4799.d
Date : 05-NOV-2003 15:01
Client ID: V1STD002
Sample Info: 1206WV1STD002 PPBW5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000265

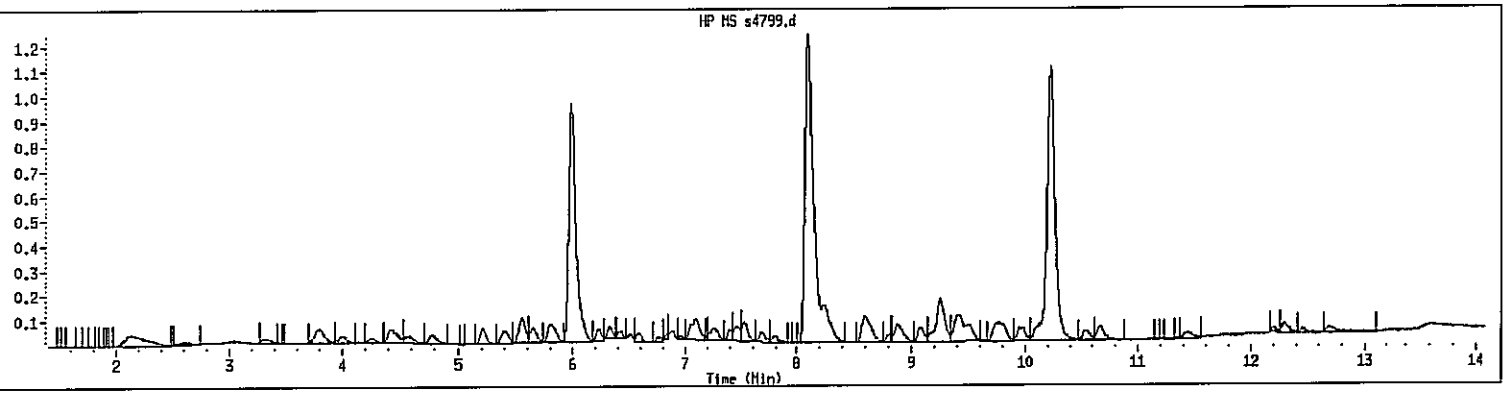


Data file : /var/chem/msv1.i/2031105.s.b/s4799.d
Report Date: 11/14/2003 09:49

MANUAL INTEGRATION GRAPHIC REPORT

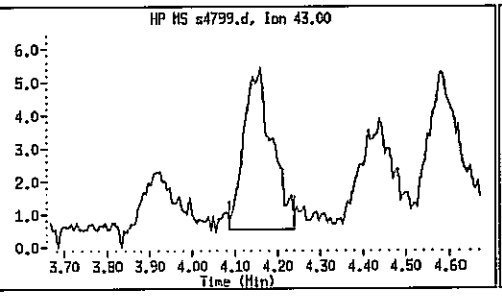
Lab ID : 1206
Injection Date: 05-NOV-2003 15:01
Operator : RSP
Sample Info : 1206*V1STD002 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

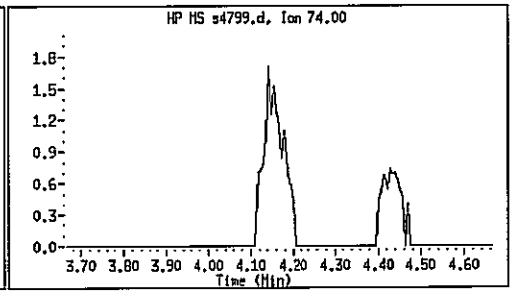
SampleType : CALIB_8
Instrument : msv1.i
Compound Sublist: 8260b



CONCENTRATIONS

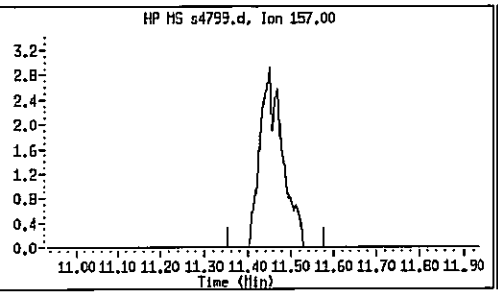
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
20 Methyl Acetate			CAS#: 79-20-9				
.160	0.695	43	22713	2	2	80-120	100
.160	0.695	74	1284			20- 30	6

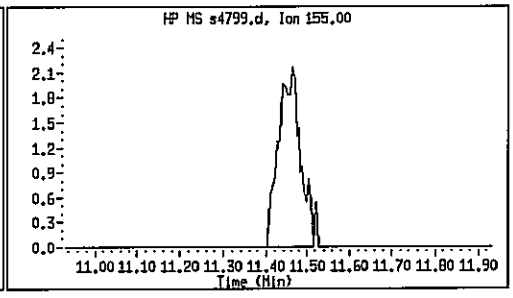




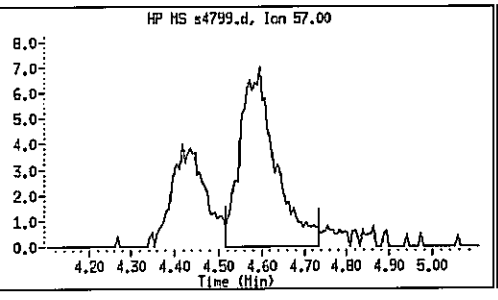
CONCENTRATIONS

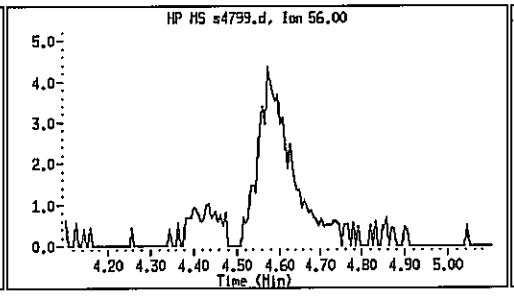
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
105 1,2-Dibromo-3-Chloropropane				CAS#: 96-12-8			
11.449	1.119	157	10603	3	3	80-120	100
11.461	1.120	155	8170			63- 95	77

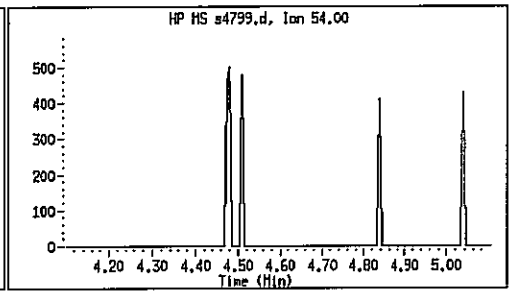




23 Hexane				CAS#: 110-54-3			
.595	0.768	57	39780	3	3	80-120	100
.602	0.769	56	0			40- 60	0
.602	0.769	54	0			1- 2	0







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4797.d
Lab Smp Id: 1207 Client Smp ID: V1STD0.2
Inj Date : 05-NOV-2003 14:14
Operator : HJL Inst ID: msv1.i
Smp Info : 1207*V1STD0.2 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 14:14 Cal File: s4797.d
Als bottle: 6 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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
5 Bromomethane	94	3.066	3.026	(0.511)	141	0.20000	0.0190	(a)
7 Trichlorofluoromethane	101	3.312	3.330	(0.552)	2826	0.20000	0.170	(a)
9 Acrolein	56	3.782	3.783	(0.630)	731	0.20000	0.567	(a)
10 1,1,2Trichlotrifluoroethane	101	3.793	3.800	(0.632)	3218	0.20000	0.175	(a)
11 1,1-Dichloroethene +	96	3.799	3.817	(0.633)	747	0.20000	0.0797	(a)
12 Acetone	43	3.914	3.926	(0.652)	5335	0.20000	2.12	(a)
13 Methyl Iodide	142	3.988	4.001	(0.665)	2050	0.20000	0.104	(a)
17 Methylene Chloride	49	4.258	4.276	(0.710)	4657	0.20000	0.336	(a)
19 trans-1,2-Dichloroethene	61	4.435	4.442	(0.739)	2720	0.20000	0.182	(a)
21 MTBE	73	4.435	4.442	(0.739)	5952	0.20000	0.192	4162(a)
22 Acrylonitrile	53	4.510	4.493	(0.752)	2895	0.20000	0.924	(a)
25 Vinyl Acetate	43	4.785	4.803	(0.798)	6465	0.20000	0.334	(a)
31 2,2-Dichloropropane	77	5.501	5.204	(0.917)	290	0.20000	0.0182	(a)
30 cis-1,2-Dichloroethene	61	5.198	5.198	(0.866)	4281	0.20000	0.225	(a)
32 2-Butanone	43	5.226	5.227	(0.871)	4492	0.20000	0.782	(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
34	Bromochloromethane	128	5.381	5.376	(0.897)	848	0.20000	0.116	(a)
36	Dibromofluoromethane	111	5.541	5.531	(0.924)	5565	50.0000	0.345	3749 (a)
37	1,1,1-Trichloroethane	97	5.988	5.554	(0.998)	103394	0.20000	5.86	
38	Cyclohexane	56	5.547	5.548	(0.925)	2755	0.20000	0.136	3414 (a)
41	Chloroform +	83	5.415	5.410	(0.903)	5277	0.20000	0.227	(a)
43	1,2-Dichloroethane-d4	67	5.811	5.789	(0.968)	2852	50.0000	0.410	(a)
44	Benzene	78	5.799	5.812	(0.967)	12965	0.20000	0.291	(aH)
47	FLUOROBENZENE	96	6.000	6.006	(1.000)	1961783	50.0000		
48	Total 1,2-Dichloroethene	61				7001	0.40000	0.407	(a)
50	Methyl Cyclohexane	83	6.327	6.327	(1.054)	1564	0.20000	0.0723	5803 (a)
51	1,2-Dichloropropane +	63	6.000	6.419	(1.000)	72493	0.20000	4.77	(a)
54	Bromodichloromethane	83	6.567	6.574	(1.095)	1154	0.20000	0.0537	(a)
57	cis-1,3-Dichloropropene	75	7.215	6.878	(1.202)	740	0.20000	0.0340	(a)
58	4-methyl-2-pentanone	43	6.974	6.958	(1.162)	8189	0.20000	0.497	(a)
59	Toluene-d8	98	7.054	7.038	(0.871)	16589	50.0000	0.447	(a)
61	trans-1,3-Dichloropropene	75	7.266	7.256	(0.897)	6583	0.20000	0.320	(a)
64	1,1,2-Trichloroethane	97	7.404	7.388	(0.914)	4238	0.20000	0.289	(a)
65	Tetrachloroethene	164	7.478	7.451	(0.924)	3117	0.20000	0.254	(a)
66	1,3-Dichloropropane	76	7.530	7.525	(0.930)	5273	0.20000	0.219	(a)
67	2-Hexanone	43	7.519	7.514	(0.928)	2172	0.20000	0.180	(a)
68	Dibromochloromethane	129	7.673	7.657	(0.948)	3723	0.20000	0.193	(a)
69	1,2-Dibromoethane(EDB)	107	7.788	7.777	(0.962)	4387	0.20000	0.226	(a)
70	CHLOROBENZENE-d5	82	8.097	8.081	(1.000)	1051830	50.0000		
71	Chlorobenzene ++	112	8.120	8.110	(1.003)	15499	0.20000	0.505	(a)
72	Ethylbenzene +	106	8.160	8.144	(1.008)	3628	0.20000	0.273	(a)
74	p,m-Xylene	106	8.252	8.236	(1.019)	12822	0.20000	0.627	(a)
75	o-Xylene	106	8.579	8.568	(1.059)	1491	0.20000	0.0808	(a)
76	Styrene	104	8.607	8.591	(1.063)	7586	0.20000	0.232	(a)
77	Bromoform ++	173	8.814	8.792	(1.088)	2028	0.20000	0.157	(a)
79	Bromofluorobenzene	174	9.077	9.067	(1.121)	5728	50.0000	0.417	(a)
83	Bromobenzene	77	9.255	9.227	(0.905)	16207	0.20000	0.407	(a)
82	trans-1,4-Dichloro-2-Butene	53	9.238	9.239	(0.903)	151	0.20000	0.0310	(a)
84	1,2,3-Trichloropropane	75	9.238	9.233	(0.903)	1231	0.20000	0.0460	(a)
85	n-Propylbenzene	91	9.261	9.244	(0.905)	13954	0.20000	0.231	(a)
86	2-Chlorotoluene	91	9.398	9.376	(0.919)	18514	0.20000	0.428	(a)
87	1,3,5-Trimethylbenzene	105	9.410	9.405	(0.920)	13081	0.20000	0.343	(a)
90	tert-butylbenzene	91	9.736	9.732	(0.952)	3673	0.20000	0.125	(a)
91	p-Isopropyltoluene	119	9.748	9.720	(0.953)	12366	0.20000	0.293	(a)
92	1,2,4-Trimethylbenzene	105	9.811	9.777	(0.959)	9212	0.20000	0.270	(a)
93	sec-Butylbenzene	105	9.966	9.944	(0.974)	18379	0.20000	0.308	(a)
95	1,3-Dichlorobenzene	146	10.155	10.133	(0.993)	8036	0.20000	0.352	(a)
96	1,4-DICHLOROBENZENE-D4	152	10.229	10.201	(1.000)	862020	50.0000		
97	1,4-Dichlorobenzene	146	10.269	10.224	(1.004)	13460	0.20000	0.465	(a)
98	TOTAL XYLENE	106				14313	0.20000	0.708	(a)
99	n-Butylbenzene	91	10.550	10.522	(1.031)	12177	0.20000	0.340	(a)
101	1,2-Dichlorobenzene	146	10.682	10.643	(1.044)	12082	0.20000	0.475	(a)
105	1,2-Dibromo-3-Chloropropane	157	11.456	11.434	(1.120)	425	0.20000	1.24	(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
108 Hexachlorobutadiene	225	12.287	12.282	(1.201)	3158	0.20000	0.291	(a)

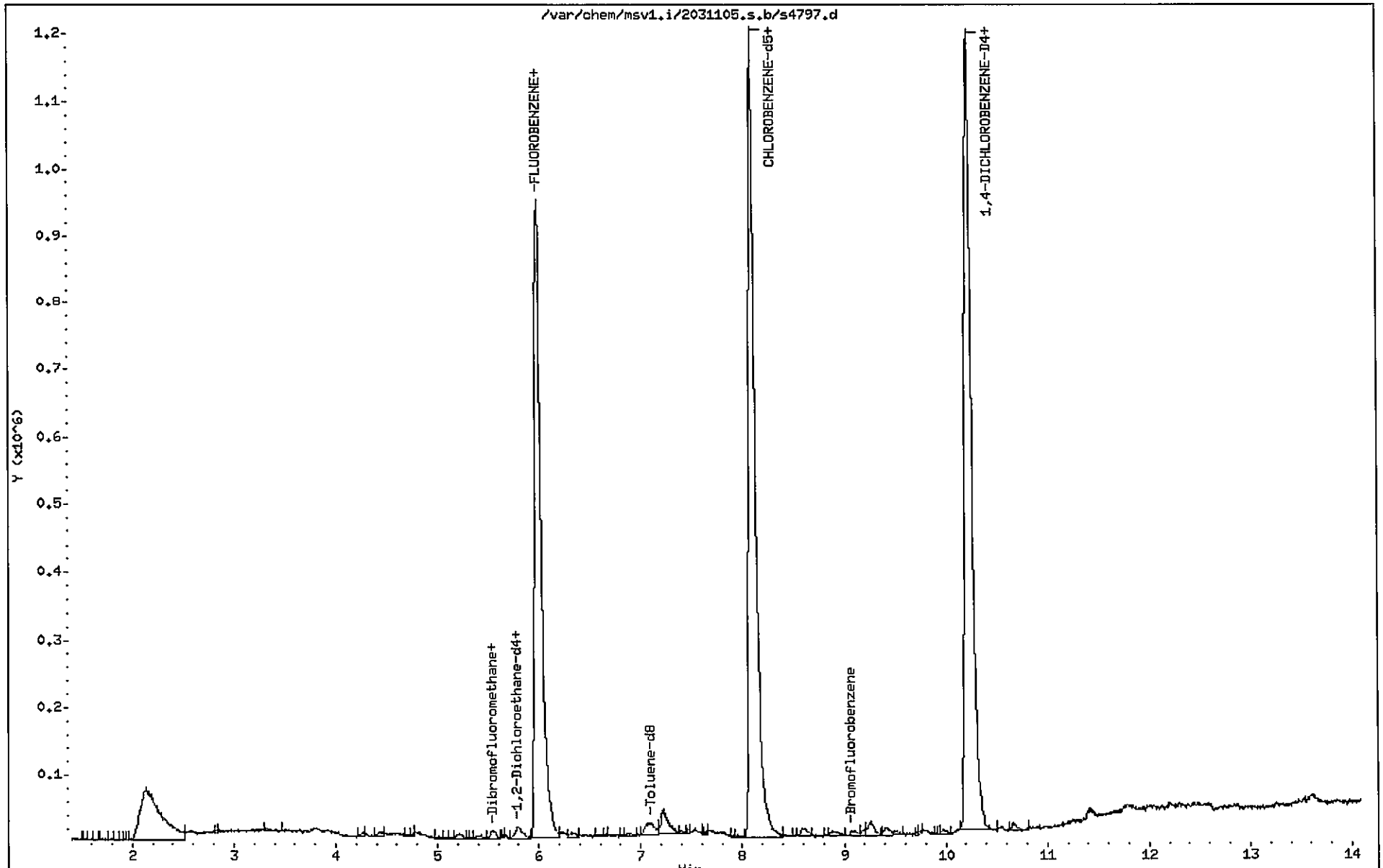
QC Flag Legend

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

Data File: /var/chem/msv1.i/2031105.s.b/s4797.d
Date : 05-NOV-2003 14:14
Client ID: V1STD0.2
Sample Info: 1207WV1STD0.2 PPBW5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i
Operator: HJL
Column diameter: 0.53

000271

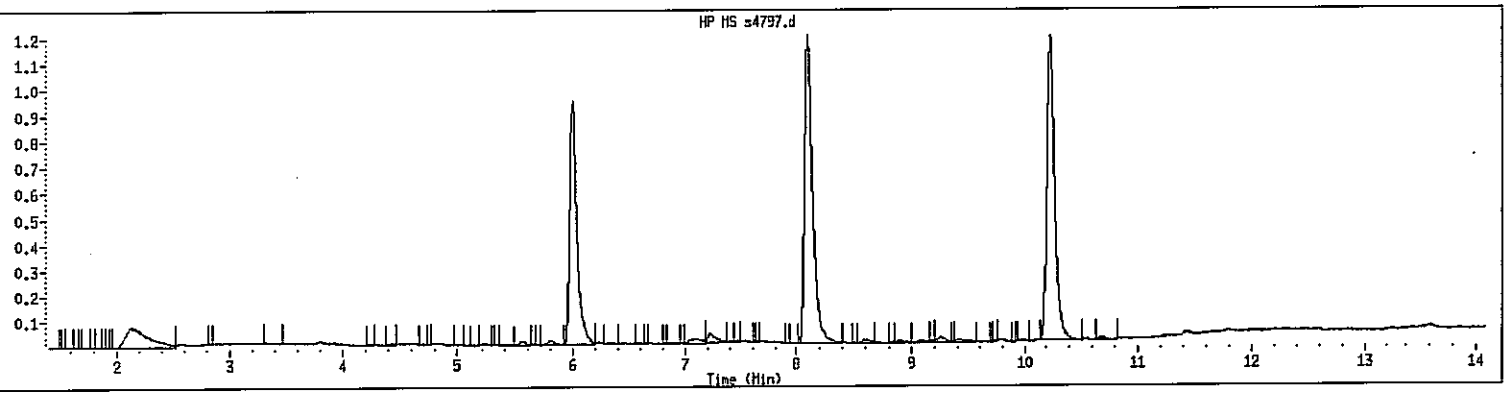


Data file : /var/chem/msv1.i/2031105.s.b/s4797.d
Report Date: 11/14/2003 09:49

MANUAL INTEGRATION GRAPHIC REPORT

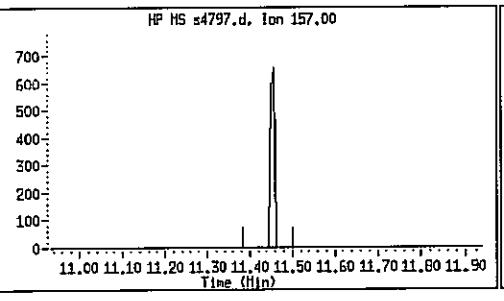
Lab ID : 1207
Injection Date: 05-NOV-2003 14:14
Operator : HJL
Sample Info : 1207*V1STD0.2 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

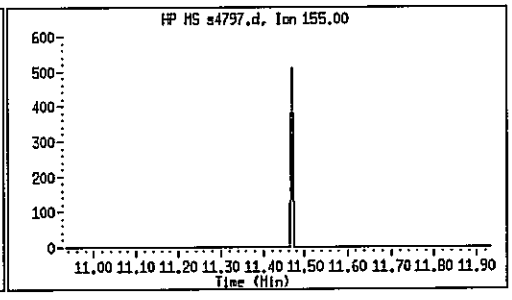
SampleType : CALIB_10
Instrument : msv1.i
Compound Sublist: 8260b



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
105 1,2-Dibromo-3-Chloropropane				CAS#: 96-12-8			
11.456	1.120	157	425	1	1	80-120	100
11.433	1.118	155	0			63- 95	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4798.d
Lab Smp Id: 1208 Client Smp ID: V1STD0.4
Inj Date : 05-NOV-2003 14:38
Operator : RSP Inst ID: msv1.i
Smp Info : 1208*V1STD0.4 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 13-Nov-2003 16:27 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 14:38 Cal File: s4798.d
Vials bottle: 7 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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
5 Bromomethane	94	3.048	3.026	(0.508)	2186	0.40000	0.287	(a)
7 Trichlorofluoromethane	101	3.318	3.330	(0.552)	1442	0.40000	0.0846	(a)
9 Acrolein	56	3.776	3.783	(0.629)	831	0.40000	0.628	(a)
10 1,1,2Trichlotrifluoroethane	101	3.822	3.800	(0.636)	8353	0.40000	0.444	(a)
11 1,1-Dichloroethene +	96	3.822	3.817	(0.636)	2653	0.40000	0.276	(a)
12 Acetone	43	3.965	3.926	(0.660)	3371	0.40000	1.30	(a)
13 Methyl Iodide	142	4.000	4.001	(0.666)	4791	0.40000	0.238	(a)
17 Methylene Chloride	49	4.263	4.276	(0.710)	2254	0.40000	0.158	(a)
19 trans-1,2-Dichloroethene	61	4.430	4.442	(0.738)	1620	0.40000	0.105	(a)
21 MTBE	73	4.435	4.442	(0.739)	5450	0.40000	0.171	4764 (a)
22 Acrylonitrile	53	4.521	4.493	(0.753)	4275	0.40000	1.33	(a)
24 1,1-Dichloroethane ++	63	4.773	4.780	(0.795)	2236	0.40000	0.108	(a)
25 Vinyl Acetate	43	4.808	4.803	(0.801)	10276	0.40000	0.517	(a)
30 cis-1,2-Dichloroethene	61	5.215	5.198	(0.868)	8691	0.40000	0.446	(a)
32 2-Butanone	43	5.226	5.227	(0.870)	8596	0.40000	1.46	(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
34 Bromochloromethane	128	5.392	5.376	(0.898)	2486	0.40000	0.332	(a)
36 Dibromofluoromethane	111	5.541	5.531	(0.923)	8900	50.0000	0.538	3157(a)
37 1,1,1-Trichloroethane	97	6.017	5.554	(1.002)	146267	0.40000	8.09	
38 Cyclohexane	56	5.559	5.548	(0.926)	8939	0.40000	0.430	4188(a)
39 Carbon Tetrachloride	117	5.667	5.645	(0.944)	6494	0.40000	0.449	(a)
41 Chloroform +	83	5.415	5.410	(0.902)	10146	0.40000	0.426	(a)
43 1,2-Dichloroethane-d4	67	5.793	5.789	(0.965)	4979	50.0000	0.698	(a)
44 Benzene	78	5.834	5.812	(0.971)	21370	0.40000	0.467	(aH)
46 1,2-Dichloroethane	62	6.006	5.846	(1.000)	23839	0.40000	1.60	(a)
47 FLUOROBENZENE	96	6.006	6.006	(1.000)	2012205	50.0000		
48 Total 1,2-Dichloroethene	61				10311	0.80000	0.551	(a)
50 Methyl Cyclohexane	83	6.326	6.327	(1.053)	3846	0.40000	0.173	5932(a)
51 1,2-Dichloropropane +	63	6.435	6.419	(1.072)	6285	0.40000	0.403	(a)
52 Dibromomethane	93	6.510	6.499	(1.084)	5536	0.40000	0.449	(a)
54 Bromodichloromethane	83	6.607	6.574	(1.100)	10318	0.40000	0.468	(a)
56 2-Chloroethyl vinyl ether	63	6.762	6.757	(1.126)	1312	0.40000	0.151	(a)
57 cis-1,3-Dichloropropene	75	6.905	6.878	(1.150)	10306	0.40000	0.462	(a)
58 4-methyl-2-pentanone	43	6.968	6.958	(1.160)	15517	0.40000	0.918	(a)
59 Toluene-d8	98	7.054	7.038	(0.871)	23940	50.0000	0.640	(a)
61 trans-1,3-Dichloropropene	75	6.905	7.256	(0.852)	10306	0.40000	0.498	(a)
64 1,1,2-Trichloroethane	97	7.410	7.388	(0.914)	8607	0.40000	0.583	(a)
65 Tetrachloroethene	164	7.490	7.451	(0.924)	5637	0.40000	0.457	(a)
66 1,3-Dichloropropane	76	7.530	7.525	(0.929)	10464	0.40000	0.432	(a)
67 2-Hexanone	43	7.524	7.514	(0.929)	15514	0.40000	1.28	(a)
68 Dibromochloromethane	129	7.679	7.657	(0.948)	7544	0.40000	0.388	(a)
69 1,2-Dibromoethane(EDB)	107	7.811	7.777	(0.964)	7724	0.40000	0.395	(a)
70 CHLOROBENZENE-d5	82	8.103	8.081	(1.000)	1058857	50.0000		
71 Chlorobenzene ++	112	8.126	8.110	(1.003)	22062	0.40000	0.714	(a)
72 Ethylbenzene +	106	8.172	8.144	(1.008)	4974	0.40000	0.372	(a)
73 1,1,1,2-Tetrachloroethane	133	8.137	8.155	(1.004)	380	0.40000	0.0284	(a)
74 p,m-Xylene	106	8.258	8.236	(1.019)	20695	0.40000	1.01	(a)
75 o-Xylene	106	8.573	8.568	(1.058)	2694	0.40000	0.145	(a)
76 Styrene	104	8.613	8.591	(1.063)	16606	0.40000	0.505	(a)
77 Bromoform ++	173	8.819	8.792	(1.088)	5220	0.40000	0.400	(a)
79 Bromofluorobenzene	174	9.100	9.067	(1.123)	7773	50.0000	0.563	(a)
83 Bromobenzene	77	9.249	9.227	(0.904)	24665	0.40000	0.595	(a)
82 trans-1,4-Dichloro-2-Butene	53	9.238	9.239	(0.903)	358	0.40000	0.0705	(a)
84 1,2,3-Trichloropropane	75	9.272	9.233	(0.906)	13850	0.40000	0.497	(a)
85 n-Propylbenzene	91	9.261	9.244	(0.905)	29579	0.40000	0.470	(a)
86 2-Chlorotoluene	91	9.393	9.376	(0.918)	26506	0.40000	0.588	(a)
87 1,3,5-Trimethylbenzene	105	9.421	9.405	(0.921)	22006	0.40000	0.554	(a)
89 4-Chlorotoluene	91	9.513	9.485	(0.930)	25337	0.40000	0.557	(a)
90 tert-butylbenzene	91	9.736	9.732	(0.952)	3810	0.40000	0.125	(a)
91 p-Isopropyltoluene	119	9.754	9.720	(0.953)	21616	0.40000	0.491	(a)
92 1,2,4-Trimethylbenzene	105	9.805	9.777	(0.959)	22065	0.40000	0.621	(a)
93 sec-Butylbenzene	105	9.966	9.944	(0.974)	30526	0.40000	0.491	(a)
95 1,3-Dichlorobenzene	146	10.149	10.133	(0.992)	12698	0.40000	0.534	(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
96	1,4-DICHLOROBENZENE-D4	152	10.229	10.201	(1.000)	897914	50.0000		
97	1,4-Dichlorobenzene	146	10.252	10.224	(1.002)	18694	0.40000	0.620	(a)
98	TOTAL XYLENE	106				23389	0.40000	1.15	(a)
99	n-Butylbenzene	91	10.539	10.522	(1.030)	21159	0.40000	0.567	(a)
101	1,2-Dichlorobenzene	146	10.671	10.643	(1.043)	17068	0.40000	0.645	(a)
105	1,2-Dibromo-3-Chloropropane	157	11.444	11.434	(1.119)	1784	0.40000	1.45	(aM)
107	1,2,4-Trichlorobenzene	180	12.189	12.173	(1.192)	6131	0.40000	0.530	(a)
108	Hexachlorobutadiene	225	12.321	12.282	(1.204)	4120	0.40000	0.365	(a)

QC Flag Legend

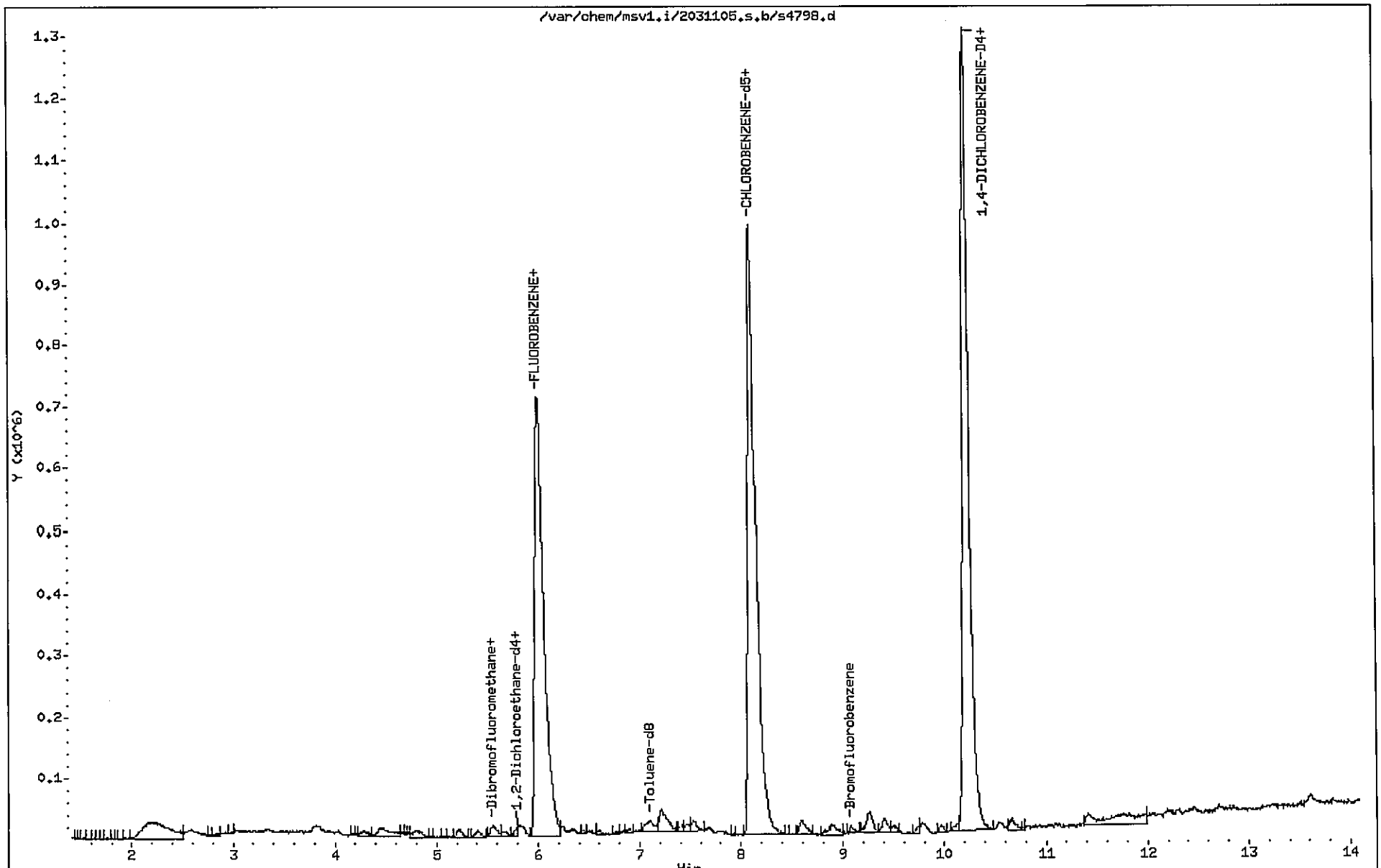
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
a - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031105.s.b/s4798.d
Date : 05-NOV-2003 14:38
Client ID: V1STD0.4
Sample Info: 120BMV1STD0.4 PPBM5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

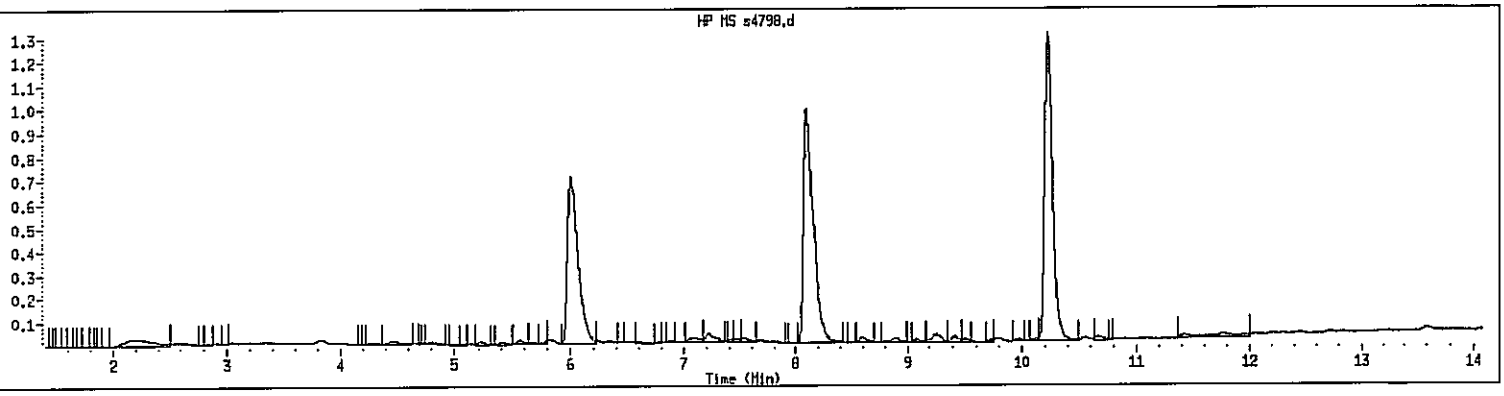
000276



Data file : /var/chem/msv1.i/2031105.s.b/s4798.d
Report Date: 11/14/2003 09:49

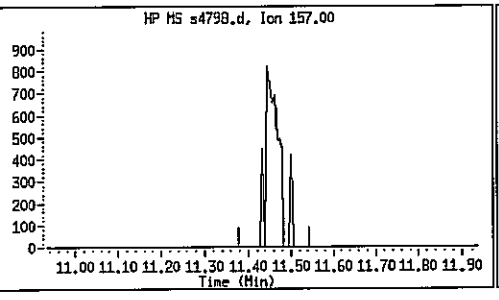
MANUAL INTEGRATION GRAPHIC REPORT

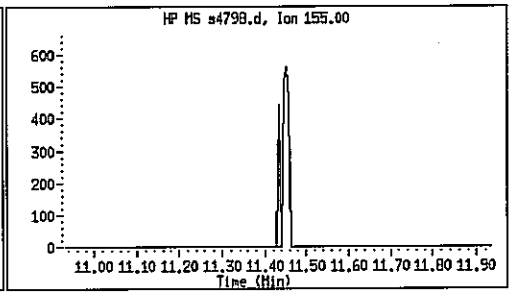
Lab ID : 1208 SampleType : CALIB_9
Injection Date: 05-NOV-2003 14:38 Instrument : msv1.i
Operator : RSP
Sample Info : 1208*V1STD0.4 PPB*5-5-5
Misc Info : MSV~3949~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
105 1,2-Dibromo-3-Chloropropane				CAS#: 96-12-8			
11.444	1.119	157	1784	1	1	80-120	100
11.433	1.118	155	152			63- 95	9





Data File: /var/chem/msv1.i/2031105.s.b/s4806.d
Report Date: 18-Nov-2003 08:22

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV ULTRA
Level: LOW
Data Type: MS DATA
SpikeList File: CH2-btex.spk
Sublist File: 8260b.sub
Method File: /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Misc Info: MSV~3939~*1*RSP

Client SDG: 2031105.s
Fraction: VOA
Client Smp ID: V1STD050 PPB
Operator: HJL
SampleType: LCS
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	21 MTBE	50.0	52.3	104.64	80-120
	44 Benzene	50.0	52.9	105.82	80-120
	60 Toluene +	50.0	48.4	96.76	80-120
	72 Ethylbenzene +	50.0	43.9	87.82	80-120
	74 p,m-Xylene	100	104	103.83	80-120
	75 o-Xylene	50.0	56.6	113.29	80-120
M	98 TOTAL XYLENE	150	160	106.98	80-120

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	36 Dibromofluorometha	50.0	51.8	103.63	70-130
$	43 1,2-Dichloroethane	50.0	49.4	98.85	76-128
$	59 Toluene-d8	50.0	51.0	101.99	83-112
$	79 Bromofluorobenzene	50.0	56.6	113.30	78-115

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031105.s.b/s4806.d
Lab Smp Id: ICV ULTRA Client Smp ID: V1STD050 PPB
Inj Date : 05-NOV-2003 18:35
Operator : HJL Inst ID: msv1.i
Smp Info : ICV ULTRA*V1STD050 PPB*
Misc Info : MSV~3939~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Meth Date : 06-Nov-2003 19:59 sab Quant Type: ISTD
Cal Date : 05-NOV-2003 16:35 Cal File: s4803.d
Als bottle: 15 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	2.338	2.311	(0.389)	638109	47.9874	48.0	
2 Chloromethane ++	50	2.614	2.581	(0.435)	349523	42.0641	42.1	
3 Vinyl Chloride +	62	2.677	2.672	(0.446)	440874	45.5788	45.6	
5 Bromomethane	94	3.015	3.005	(0.502)	310218	42.5753	42.6	
6 Chloroethane	64	3.112	3.085	(0.518)	290357	53.0678	53.1	
7 Trichlorofluoromethane	101	3.330	3.297	(0.554)	813195	49.8460	49.8	
9 Acrolein	56	3.800	3.790	(0.633)	64537	50.9954	51.0	(R)
10 1,1,2Trichlotrifluoroethane	101	3.794	3.767	(0.632)	926361	51.4845	51.5	
11 1,1-Dichloroethene +	96	3.823	3.790	(0.636)	486898	52.9493	52.9	
12 Acetone	43	3.932	3.933	(0.655)	120452	48.7383	48.7	
13 Methyl Iodide	142	3.995	3.996	(0.665)	881227	45.7047	45.7	
14 Carbon Disulfide	76	4.040	4.025	(0.673)	987172	36.8394	36.8	
17 Methylene Chloride	49	4.275	4.260	(0.712)	692280	50.8772	50.9	
19 trans-1,2-Dichloroethene	61	4.447	4.426	(0.740)	768195	52.2707	52.3	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
20 Methyl Acetate	43	4.161	4.151	(0.693)	674920	76.5030	76.5	1935(H)
21 MTBE	73	4.447	4.426	(0.740)	1594442	52.3200	52.3	4973
22 Acrylonitrile	53	4.510	4.495	(0.751)	160618	52.2497	52.2	(R)
23 Hexane	57	4.591	4.586	(0.764)	553144	36.8810	36.9	3329(H)
24 1,1-Dichloroethane ++	63	4.797	4.770	(0.799)	1004008	50.7651	50.8	
25 Vinyl Acetate	43	4.602	4.793	(0.766)	369668	19.4393	19.4	(R)
31 2,2-Dichloropropane	77	5.204	5.194	(0.866)	929291	59.4048	59.4	
30 cis-1,2-Dichloroethene	61	5.215	5.200	(0.868)	950183	50.9469	50.9	
32 2-Butanone	43	5.238	5.228	(0.872)	315936	56.0632	56.1	
34 Bromochloromethane	128	5.399	5.371	(0.899)	375715	52.4157	52.4	
36 Dibromofluoromethane	111	5.542	5.521	(0.923)	820606	51.8160	51.8	5225
37 1,1,1-Trichloroethane	97	5.571	5.549	(0.927)	881270	50.9401	50.9	(M)
38 Cyclohexane	56	5.565	5.555	(0.927)	775535	39.0172	39.0	5022
39 Carbon Tetrachloride	117	5.662	5.635	(0.943)	763772	55.2258	55.2	
41 Chloroform +	83	5.427	5.400	(0.904)	1176334	51.5769	51.6	
42 1,1-Dichloropropene	75	5.674	5.664	(0.945)	866421	49.9721	50.0	
43 1,2-Dichloroethane-d4	67	5.811	5.784	(0.968)	337249	49.4249	49.4	
44 Benzene	78	5.823	5.796	(0.969)	1884733	52.9123	52.9	
46 1,2-Dichloroethane	62	5.863	5.836	(0.976)	746027	52.3333	52.3	
47 FLUOROBENZENE	96	6.006	5.990	(1.000)	1924927	50.0000		
48 Total 1,2-Dichloroethene	61				1718378	103.218	103	
49 Trichloroethene	130	6.253	6.225	(1.041)	891784	51.3125	51.3	
50 Methyl Cyclohexane	83	6.344	6.334	(1.056)	833236	39.2362	39.2	6271
51 1,2-Dichloropropane +	63	6.442	6.420	(1.073)	797975	53.5385	53.5	
52 Dibromomethane	93	6.511	6.500	(1.084)	617212	52.3465	52.3	
54 Bromodichloromethane	83	6.597	6.575	(1.098)	1163010	55.1182	55.1	
56 2-Chloroethyl vinyl ether	63	6.774	6.753	(1.128)	387944	46.7834	46.8	
57 cis-1,3-Dichloropropene	75	6.900	6.884	(1.149)	1190993	55.7740	55.8	(H)
58 4-methyl-2-pentanone	43	6.980	6.953	(1.162)	857898	53.0702	53.1	
59 Toluene-d8	98	7.066	7.045	(1.000)	1857015	50.9954	51.0	
60 Toluene +	91	7.107	7.096	(1.000)	2169345	48.3809	48.4	
61 trans-1,3-Dichloropropene	75	7.284	7.257	(1.000)	1063787	52.7358	52.7	
64 1,1,2-Trichloroethane	97	7.410	7.395	(1.000)	773671	53.7810	53.8	
65 Tetrachloroethene	164	7.473	7.452	(1.000)	564952	47.0158	47.0	
66 1,3-Dichloropropane	76	7.542	7.515	(1.000)	1221864	51.8375	51.8	
67 2-Hexanone	43	7.542	7.515	(1.000)	737776	62.3284	62.3	
68 Dibromochloromethane	129	7.691	7.658	(1.000)	970417	51.2261	51.2	
69 1,2-Dibromoethane(EDB)	107	7.800	7.779	(1.000)	969700	50.9159	50.9	
70 CHLOROBENZENE-d5	82	8.115	8.082	(1.000)	1031085	50.0000		(M)
71 Chlorobenzene ++	112	8.138	8.111	(1.000)	1591493	52.8678	52.9	
72 Ethylbenzene +	106	8.178	8.151	(1.008)	571711	43.9097	43.9	(M)
73 1,1,1,2-Tetrachloroethane	133	8.190	8.162	(1.000)	733331	56.2590	56.3	
74 p,m-Xylene	106	8.258	8.248	(1.000)	2080482	103.829	104	
75 o-Xylene	106	8.620	8.569	(1.000)	1024335	56.6426	56.6	
76 Styrene	104	8.625	8.598	(1.000)	1734787	54.1774	54.2	
77 Bromoform ++	173	8.832	8.799	(1.000)	756793	59.6079	59.6	
78 Isopropylbenzene	105	8.906	8.879	(1.000)	2709526	58.7450	58.7	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
79	Bromofluorobenzene	174	9.101	9.062	(1.000)	761881	56.6480	56.6	
80	1,1,2,2-Tetrachloroethane++	83	9.198	9.171	(0.898)	932053	52.1880	52.2	
83	Bromobenzene	77	9.267	9.234	(0.904)	2212032	50.5100	50.5	
82	trans-1,4-Dichloro-2-Butene	53	9.261	9.228	(0.904)	328017	61.1003	61.1	
84	1,2,3-Trichloropropane	75	9.273	9.246	(0.905)	1654630	56.1781	56.2	
85	n-Propylbenzene	91	9.284	9.257	(0.906)	3216370	48.3768	48.4	
86	2-Chlorotoluene	91	9.416	9.389	(0.919)	2323380	48.7411	48.7	(M)
87	1,3,5-Trimethylbenzene	105	9.445	9.418	(0.922)	2084089	49.6129	49.6	
89	4-Chlorotoluene	91	9.525	9.498	(0.930)	2688231	55.8932	55.9	(M)
90	tert-butylbenzene	91	9.771	9.738	(0.954)	1530169	47.3870	47.4	
91	p-Isopropyltoluene	119	9.760	9.733	(0.952)	2398858	51.5716	51.6	
92	1,2,4-Trimethylbenzene	105	9.835	9.802	(0.960)	1953545	52.0474	52.0	
93	sec-Butylbenzene	105	9.989	9.956	(0.975)	3441436	52.3509	52.4	
95	1,3-Dichlorobenzene	146	10.173	10.134	(0.993)	1282172	51.0005	51.0	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.247	10.214	(1.000)	949105	50.0000		
97	1,4-Dichlorobenzene	146	10.264	10.231	(1.002)	1720721	53.9486	53.9	(M)
98	TOTAL XYLENE	106				3104817	160.472	160	
99	n-Butylbenzene	91	10.562	10.529	(1.031)	2125131	53.8741	53.9	
101	1,2-Dichlorobenzene	146	10.688	10.650	(1.043)	1431091	51.1513	51.2	
105	1,2-Dibromo-3-Chloropropane	157	11.468	11.435	(1.119)	335359	51.4619	51.5	
107	1,2,4-Trichlorobenzene	180	12.207	12.174	(1.191)	730668	59.7429	59.7	
108	Hexachlorobutadiene	225	12.310	12.277	(1.201)	586481	49.1244	49.1	
109	Naphthalene	128	12.471	12.432	(1.217)	1173177	60.4739	60.5	
110	1,2,3-Trichlorobenzene	180	12.717	12.673	(1.241)	687794	65.3565	65.4	(R)

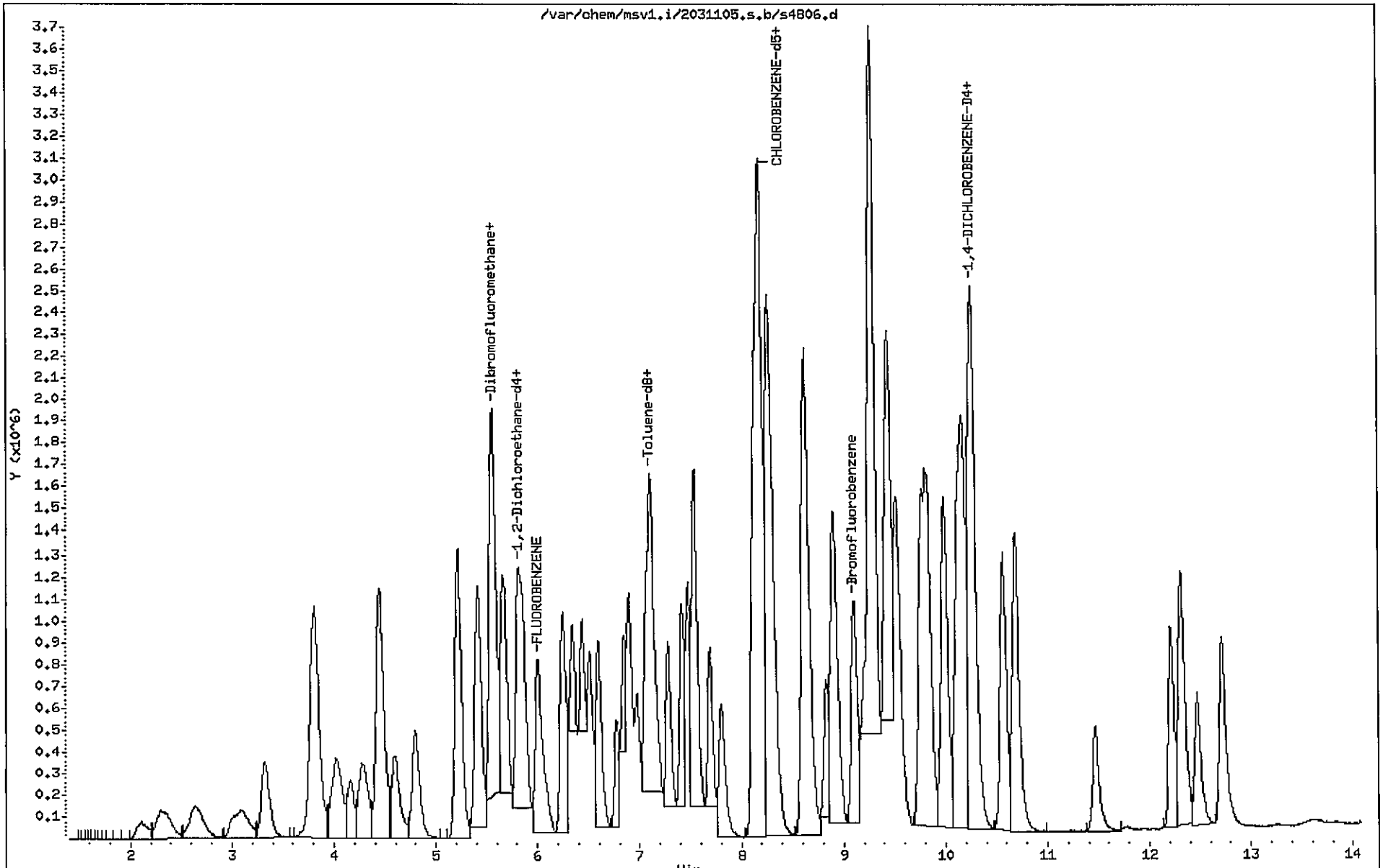
QC Flag Legend

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

Data File: /var/chem/msv1.i/2031105.s.b/s4806.d
Date : 05-NOV-2003 18:35
Client ID: V1STD050 PPB
Sample Info: ICV ULTRA*V1STD050 PPB*
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i
Operator: HJL
Column diameter: 0.53

282000

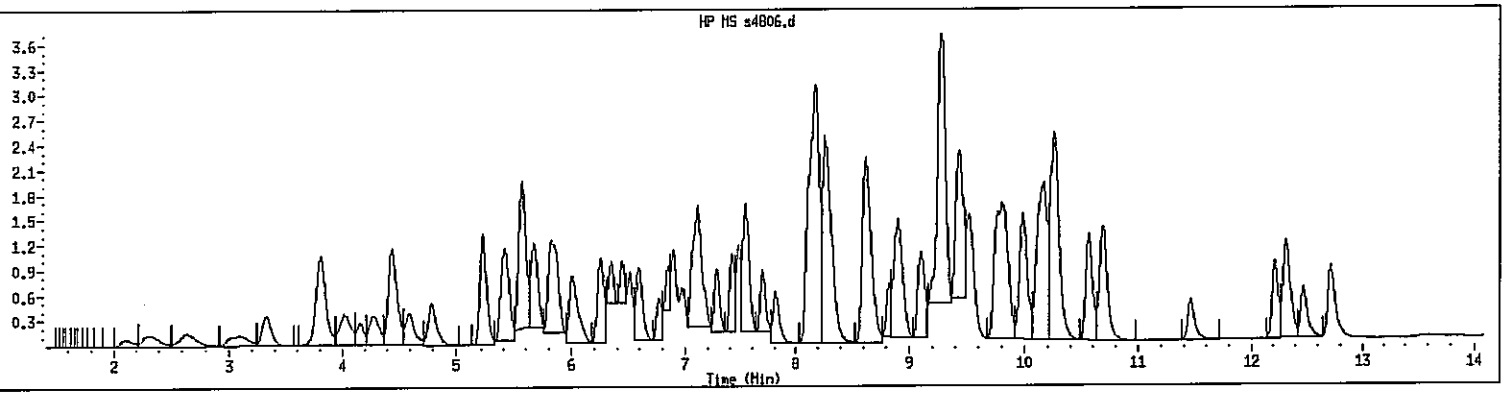


Data file : /var/chem/msv1.i/2031105.s.b/s4806.d
Report Date: 11/07/2003 16:52

MANUAL INTEGRATION GRAPHIC REPORT

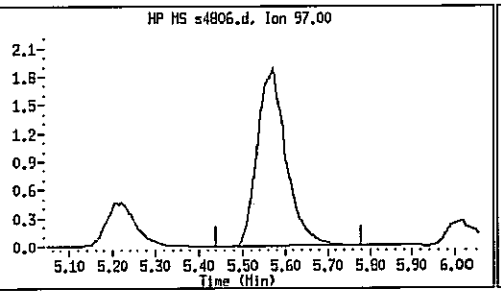
Lab ID : ICV ULTRA
Injection Date: 05-NOV-2003 18:35
Operator : HJL
Sample Info : ICV ULTRA*V1STD050 PPB*
Misc Info : MSV~3939~*1*RSP
Method : /var/chem/msv1.i/2031105.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

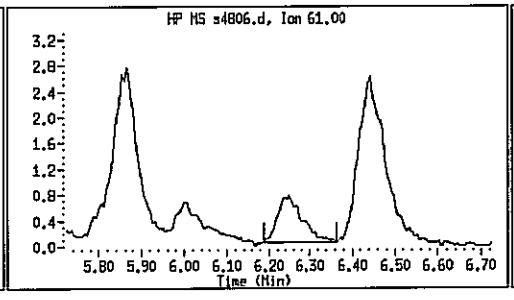
SampleType : LCS
Instrument : msv1.i
Compound Sublist: 8260b

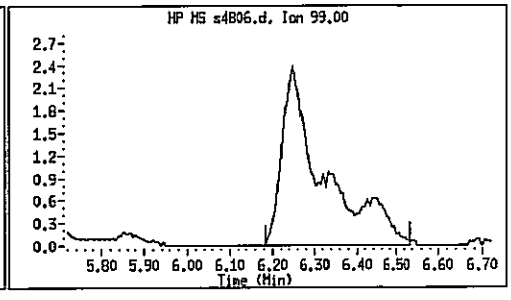


CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
37 1,1,1-Trichloroethane				CAS#: 71-55-6			
5.571	0.927	97	881270	51	51	80-120	100
5.247	1.040	61	31348			3- 5	4
5.247	1.040	99	163283			16- 24	19

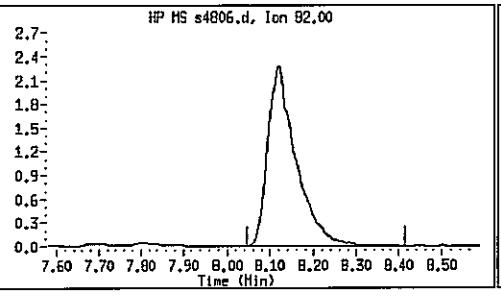


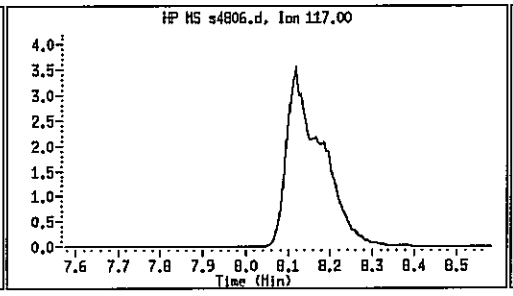


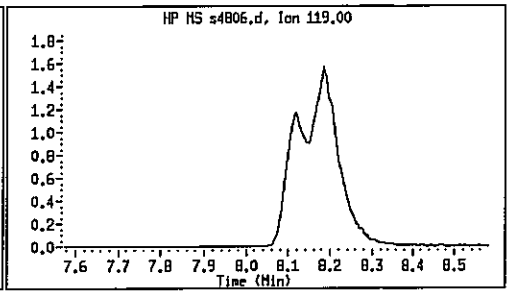


CONCENTRATIONS

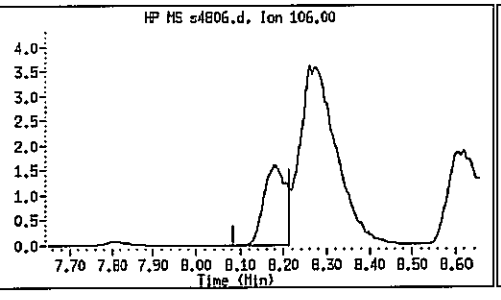
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 70 CHLOROBENZENE-d5				CAS#: 3114-55-4			
8.115	1.000	82	1031085	50	50	80-120	100
8.079	0.996	117	0			0- 0	0
8.079	0.996	119	0			0- 0	0

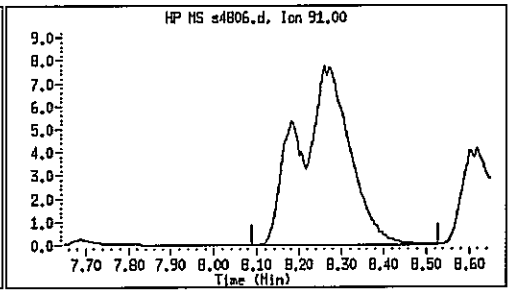




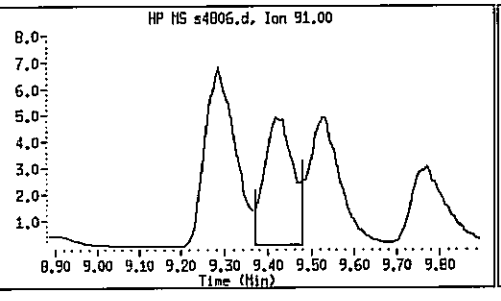


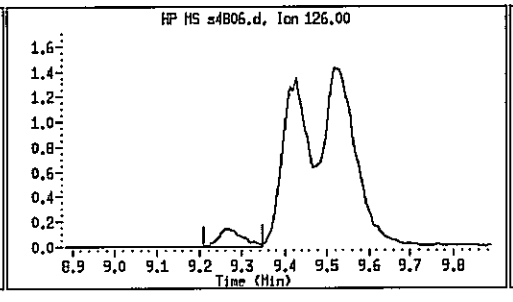
72 Ethylbenzene +				CAS#: 100-41-4			
8.178	1.008	106	571711	44	44	80-120	100
8.258	1.018	91	6511048			285-428	1139

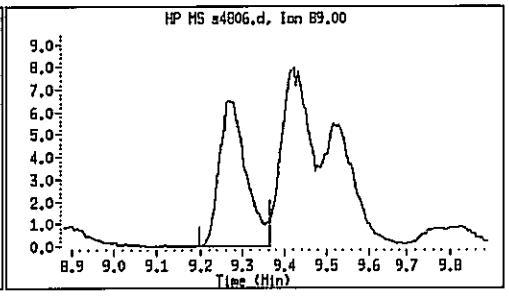




86 2-Chlorotoluene				CAS#: 95-49-8			
9.416	0.919	91	2323380	49	49	80-120	100
9.267	0.904	126	56952			0- 0	2
9.267	0.904	89	293830			0- 0	13

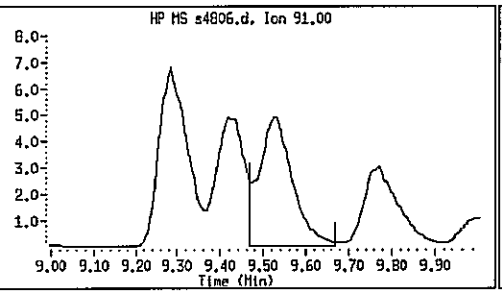


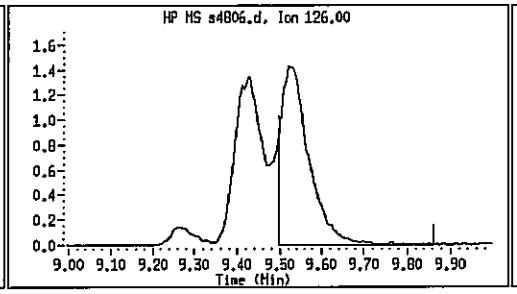


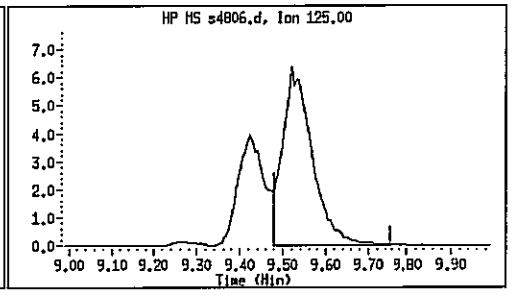


CONCENTRATIONS

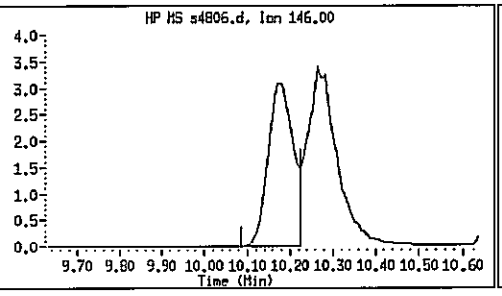
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 4-Chlorotoluene				CAS#: 106-43-4			
9.525	0.930	91	2688231	56	56	80-120	100
9.519	0.929	126	681146			41- 62	25
9.519	0.929	125	309291			9- 14	12

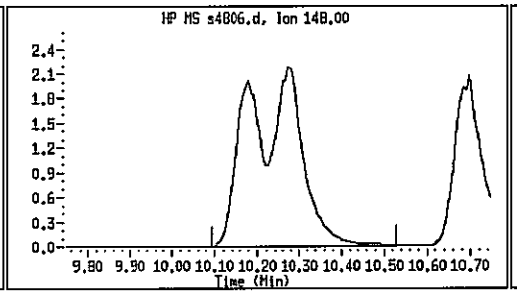


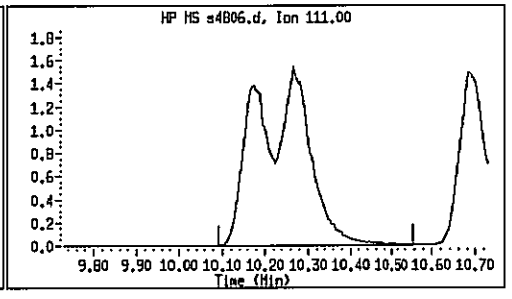




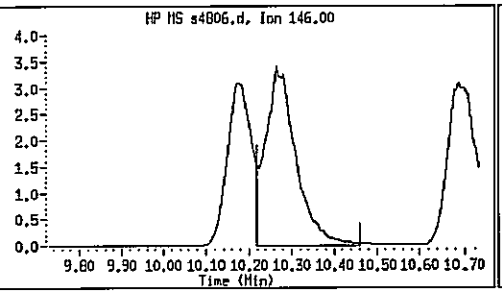
95 1,3-Dichlorobenzene				CAS#: 541-73-1			
10.173	0.993	146	1282172	51	51	80-120	100
10.270	1.002	148	1902334			121-181	148
10.264	1.002	111	1329772			84-126	104

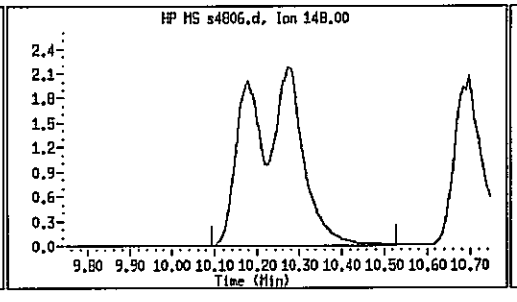


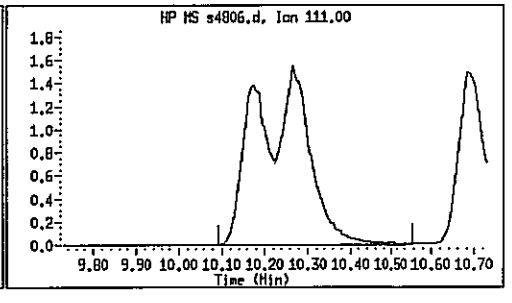




97 1,4-Dichlorobenzene				CAS#: 106-46-7			
10.264	1.002	146	1720721	54	54	80-120	100
10.270	1.002	148	1902334			89-133	111
10.264	1.002	111	1329772			62- 93	77







Data File: /var/chem/msv1.i/2031109.s.b/s4904.d

Date : 09-NOV-2003 08:12

Client ID: BFB01

Instrument: msv1.i

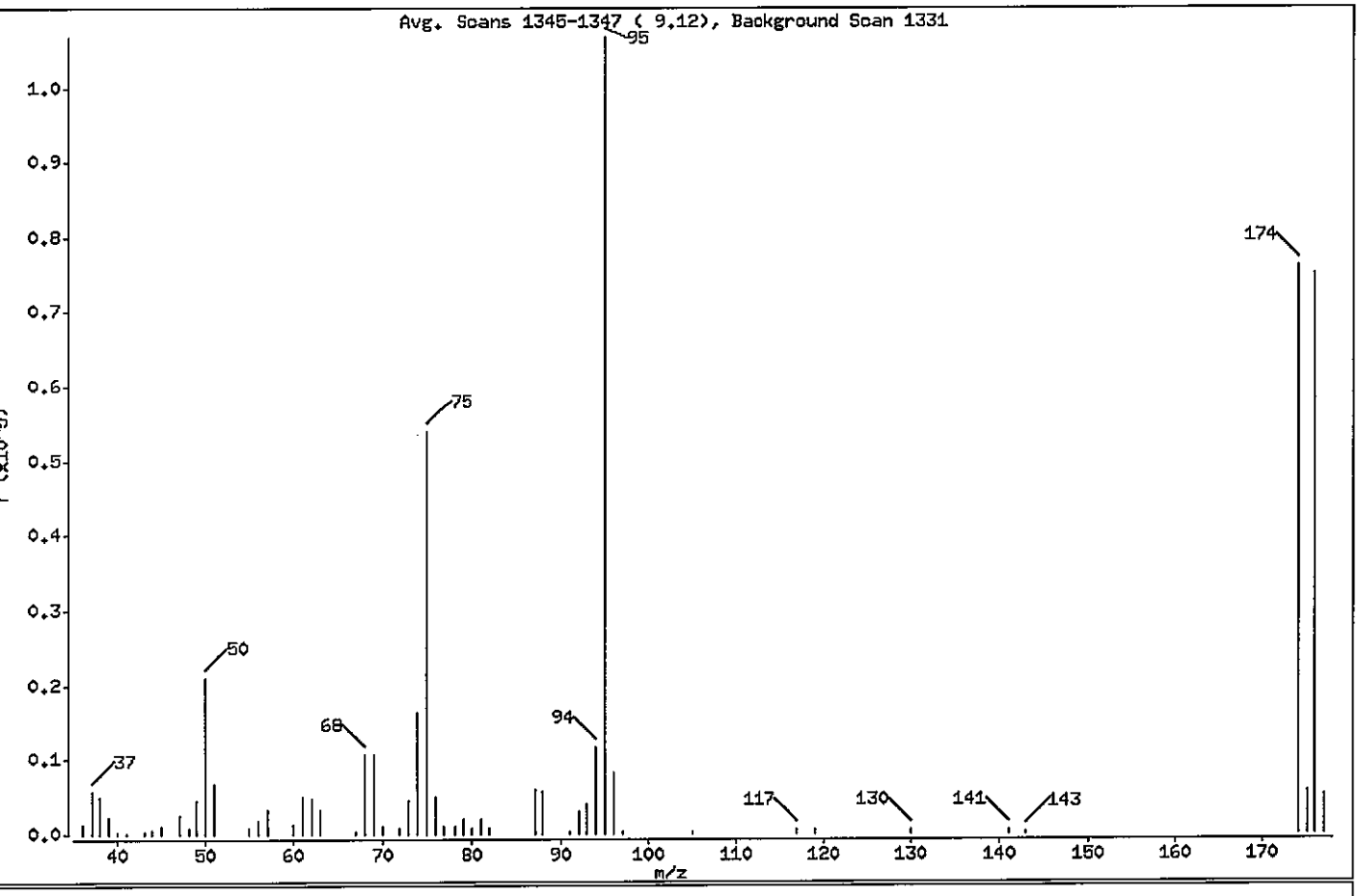
Sample Info: 1000XBFB01

Operator: KRV

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	19.63
75	30.00 - 60.00% of mass 95	50.46
96	5.00 - 9.00% of mass 95	7.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	71.13
175	5.00 - 9.00% of mass 174	5.26 (7.40)
176	95.00 - 101.00% of mass 174	70.37 (98.93)
177	5.00 - 9.00% of mass 176	4.88 (6.93)

Data File: /var/chem/msv1.i/2031109.s.b/s4904.d

Date : 09-NOV-2003 08:12

Client ID: BFB01

Instrument: msv1.i

Sample Info: 1000MBFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53

Data File: s4904.d

Spectrum: Avg. Scans 1345-1347 (9.12), Background Scan 1331

Location of Maximum: 95.00

Number of points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1117	55.00	663	75.00	53880	95.00	106776
37.00	5566	56.00	1642	76.00	4899	96.00	8008
38.00	4929	57.00	3123	77.00	973	97.00	160
39.00	2124	60.00	1233	78.00	887	105.00	327
40.00	202	61.00	5029	79.00	1907	117.00	470
41.00	76	62.00	4571	80.00	715	119.00	455
43.00	131	63.00	3231	81.00	1947	130.00	480
44.00	543	67.00	307	82.00	633	141.00	589
45.00	1051	68.00	10500	87.00	5837	143.00	318
47.00	2360	69.00	10474	88.00	5610	174.00	75952
48.00	742	70.00	918	91.00	264	175.00	5619
49.00	4524	72.00	652	92.00	2963	176.00	75136
50.00	20952	73.00	4381	93.00	4057	177.00	5208
51.00	6660	74.00	16129	94.00	11667		

Data File: /var/chem/msv1.i/2031109.s.b/s4904.d

Date : 09-NOV-2003 08:12

Client ID: BFB01

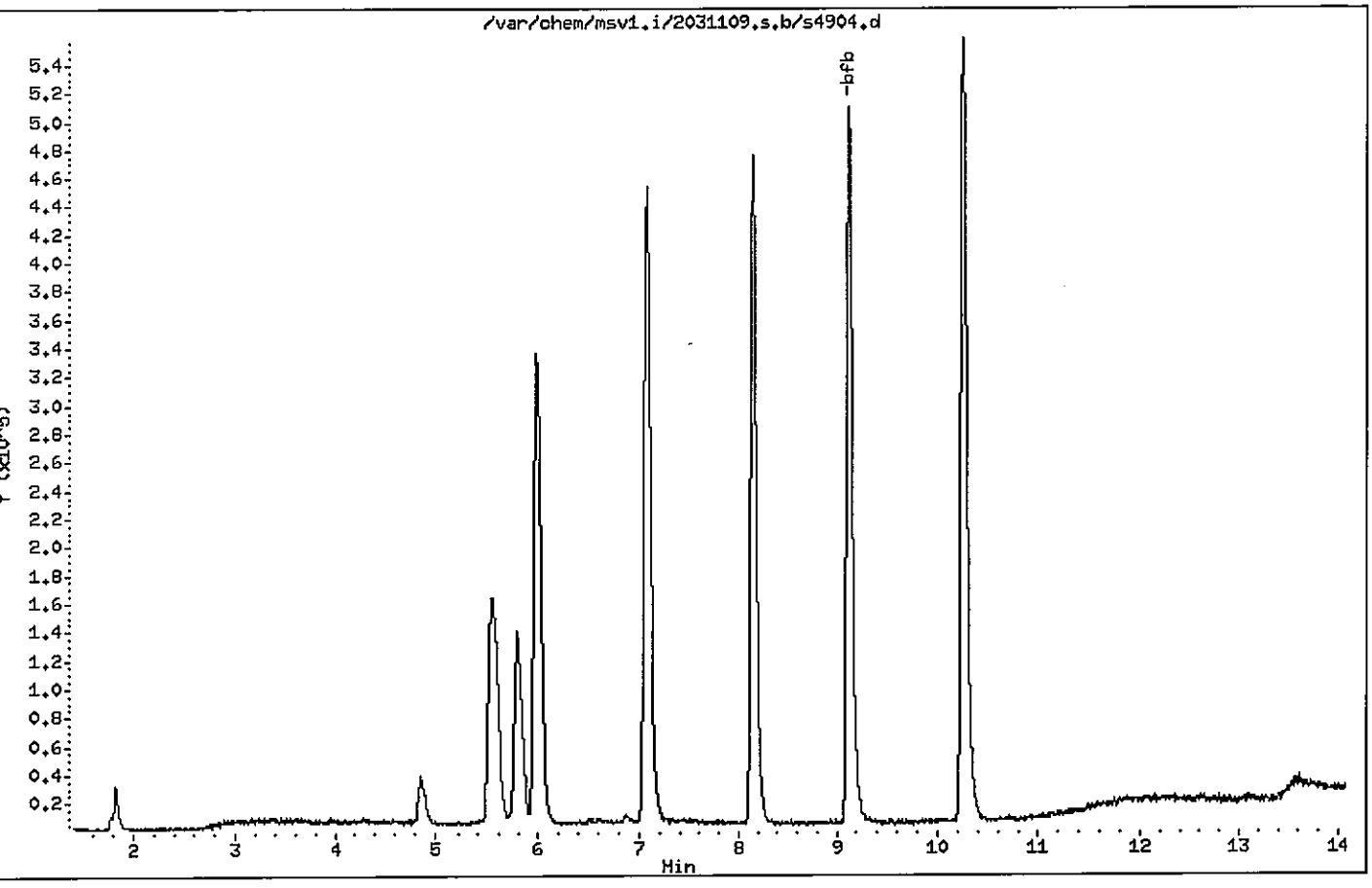
Instrument: msv1.i

Sample Info: 1000XBFB01

Operator: KRV

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4906.d
Lab Smp Id: 1400 Client Smp ID: V1STD050
Inj Date : 09-NOV-2003 09:17
Operator : KRV Inst ID: msv1.i
Smp Info : 1400*V1STD050*5-5-5
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 09-Nov-2003 09:34 rjo Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.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)	AMOUNTS ON-COL (ppb)	SIMILARITY
1 Dichlorodifluoromethane	85	2.315	2.315	(1.000)	593217	50.0000	51.0	
2 Chloromethane ++	50	2.608	2.608	(1.000)	338774	50.0000	46.6	
3 Vinyl Chloride +	62	2.653	2.653	(1.000)	422405	50.0000	49.9	
5 Bromomethane	94	3.037	3.037	(1.000)	291464	50.0000	45.7	
6 Chloroethane	64	3.095	3.095	(1.000)	271135	50.0000	56.6	
7 Trichlorofluoromethane	101	3.324	3.324	(1.000)	795426	50.0000	55.7	
9 Acrolein	56	4.419	4.419	(1.000)	23602	250.000	21.3	
10 1,1,2Trichlotrifluoroethane	101	3.788	3.788	(1.000)	865996	50.0000	55.0	
11 1,1-Dichloroethene +	96	3.811	3.811	(1.000)	426260	50.0000	53.0	
12 Acetone	43	3.914	3.914	(1.000)	143104	50.0000	66.2	
13 Methyl Iodide	142	3.994	3.994	(1.000)	817378	50.0000	48.4	
14 Carbon Disulfide	76	4.035	4.035	(1.000)	1219082	50.0000	52.0	
17 Methylene Chloride	49	4.264	4.264	(1.000)	602226	50.0000	50.6	
19 trans-1,2-Dichloroethene	61	4.436	4.436	(1.000)	650163	50.0000	50.6	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
20 Methyl Acetate	43	4.155	4.155	(1.000)	384066	50.0000	49.8	2159(H)
21 MTBE	73	4.430	4.430	(1.000)	1380972	50.0000	51.8	5009
22 Acrylonitrile	53	4.499	4.499	(1.000)	597647	250.000	222	(A)
23 Hexane	57	4.585	4.585	(1.000)	654420	50.0000	49.9	3233(H)
24 1,1-Dichloroethane ++	63	4.791	4.791	(1.000)	877413	50.0000	50.7	
25 Vinyl Acetate	43	4.791	4.791	(1.000)	998968	50.0000	60.0	
31 2,2-Dichloropropane	77	5.198	5.198	(1.000)	791091	50.0000	57.8	
30 cis-1,2-Dichloroethene	61	5.209	5.209	(1.000)	834391	50.0000	51.1	
32 2-Butanone	43	5.232	5.232	(1.000)	269500	50.0000	54.7	
34 Bromochloromethane	128	5.387	5.387	(1.000)	348442	50.0000	55.6	
36 Dibromofluoromethane	111	5.536	5.536	(1.000)	766589	50.0000	55.3	5122
37 1,1,1-Trichloroethane	97	6.230	6.230	(1.000)	557799	50.0000	36.8	
38 Cyclohexane	56	5.559	5.559	(1.000)	879335	50.0000	50.6	5050
39 Carbon Tetrachloride	117	5.651	5.651	(1.000)	705425	50.0000	58.3	
41 Chloroform +	83	5.410	5.410	(1.000)	1033675	50.0000	51.8	
42 1,1-Dichloropropene	75	5.668	5.668	(1.000)	785012	50.0000	51.7	
43 1,2-Dichloroethane-d4	67	5.794	5.794	(1.000)	298658	50.0000	50.0	
44 Benzene	78	5.800	5.800	(1.000)	1665019	50.0000	53.4	
46 1,2-Dichloroethane	62	5.846	5.846	(1.000)	658601	50.0000	52.8	
47 FLUOROBENZENE	96	6.000	6.000	(1.000)	1684332	50.0000		(M)
48 Total 1,2-Dichloroethene	61				1484554	100.000	102	
49 Trichloroethene	130	6.230	6.230	(1.000)	749962	50.0000	49.3	
50 Methyl Cyclohexane	83	6.338	6.338	(1.000)	953396	50.0000	51.3	6233
51 1,2-Dichloropropane +	63	6.430	6.430	(1.000)	674524	50.0000	51.7	
52 Dibromomethane	93	6.505	6.505	(1.000)	545807	50.0000	52.9	
54 Bromodichloromethane	83	6.579	6.579	(1.000)	963730	50.0000	52.2	
56 2-Chloroethyl vinyl ether	63	6.757	6.757	(1.000)	378131	50.0000	52.1	
57 cis-1,3-Dichloropropene	75	6.883	6.883	(1.000)	982008	50.0000	52.6	
58 4-methyl-2-pentanone	43	6.969	6.969	(1.000)	720107	50.0000	50.9	
59 Toluene-d8	98	7.049	7.049	(1.000)	1671594	50.0000	50.6	
60 Toluene +	91	7.101	7.101	(1.000)	2017427	50.0000	49.6	
61 trans-1,3-Dichloropropene	75	7.261	7.261	(1.000)	905377	50.0000	49.5	
64 1,1,2-Trichloroethane	97	7.404	7.404	(1.000)	656789	50.0000	50.3	
65 Tetrachloroethene	164	7.462	7.462	(1.000)	567005	50.0000	52.0	
66 1,3-Dichloropropane	76	7.530	7.530	(1.000)	1040213	50.0000	48.7	
67 2-Hexanone	43	7.525	7.525	(1.000)	496807	50.0000	46.3	
68 Dibromochloromethane	129	7.668	7.668	(1.000)	887212	50.0000	51.6	
69 1,2-Dibromoethane(EDB)	107	7.794	7.794	(1.000)	855851	50.0000	49.5	
70 CHLOROBENZENE-d5	82	8.092	8.092	(1.000)	935136	50.0000		(M)
71 Chlorobenzene ++	112	8.121	8.121	(1.000)	1426787	50.0000	52.3	
72 Ethylbenzene +	106	8.155	8.155	(1.008)	583427	50.0000	49.4	(M)
73 1,1,1,2-Tetrachloroethane	133	8.172	8.172	(1.000)	651066	50.0000	55.1	
74 p,m-Xylene	106	8.253	8.253	(1.000)	1904022	100.000	105	
75 o-Xylene	106	8.591	8.591	(1.000)	896036	50.0000	54.6	
76 Styrene	104	8.602	8.602	(1.000)	1557705	50.0000	53.6	
77 Bromoform ++	173	8.808	8.808	(1.000)	708232	50.0000	61.5	
78 Isopropylbenzene	105	8.889	8.889	(1.000)	2455059	50.0000	58.7	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	SIMILARITY
79	Bromofluorobenzene	174	9.089	9.089	(1.000)	709307	50.0000	58.2	
80	1,1,2,2-Tetrachloroethane++	83	9.181	9.181	(0.898)	921129	50.0000	56.6	
83	Bromobenzene	77	9.244	9.244	(0.904)	2136876	50.0000	53.6	
82	trans-1,4-Dichloro-2-Butene	53	9.250	9.250	(0.905)	237653	50.0000	48.6	
84	1,2,3-Trichloropropane	75	9.255	9.255	(0.905)	1342231	50.0000	50.1	
85	n-Propylbenzene	91	9.261	9.261	(0.906)	2931659	50.0000	48.4	
86	2-Chlorotoluene	91	9.404	9.404	(0.920)	2043303	50.0000	47.1	(M)
87	1,3,5-Trimethylbenzene	105	9.422	9.422	(0.922)	1942519	50.0000	50.8	
89	4-Chlorotoluene	91	9.508	9.508	(0.930)	1993253	50.0000	45.5	(M)
90	tert-butylbenzene	91	9.748	9.748	(0.953)	1437329	50.0000	48.9	
91	p-Isopropyltoluene	119	9.737	9.737	(0.952)	2127424	50.0000	50.2	
92	1,2,4-Trimethylbenzene	105	9.794	9.794	(0.958)	1810317	50.0000	53.0	
93	sec-Butylbenzene	105	9.966	9.966	(0.975)	2972172	50.0000	49.7	
95	1,3-Dichlorobenzene	146	10.155	10.155	(0.993)	1179075	50.0000	51.5	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.224	10.224	(1.000)	864107	50.0000		
97	1,4-Dichlorobenzene	146	10.235	10.235	(1.001)	1216532	50.0000	41.9	
98	TOTAL XYLENE	106				2800058	150.000	159	
99	n-Butylbenzene	91	10.539	10.539	(1.031)	1946113	50.0000	54.2	
101	1,2-Dichlorobenzene	146	10.665	10.665	(1.043)	1244470	50.0000	48.9	
105	1,2-Dibromo-3-Chloropropane	157	11.445	11.445	(1.119)	298358	50.0000	50.3	
107	1,2,4-Trichlorobenzene	180	12.190	12.190	(1.192)	733330	50.0000	65.9	
108	Hexachlorobutadiene	225	12.281	12.281	(1.201)	571139	50.0000	52.5	
109	Naphthalene	128	12.442	12.442	(1.217)	1355382	50.0000	77.6	
110	1,2,3-Trichlorobenzene	180	12.694	12.694	(1.242)	708274	50.0000	74.8	

QC Flag Legend

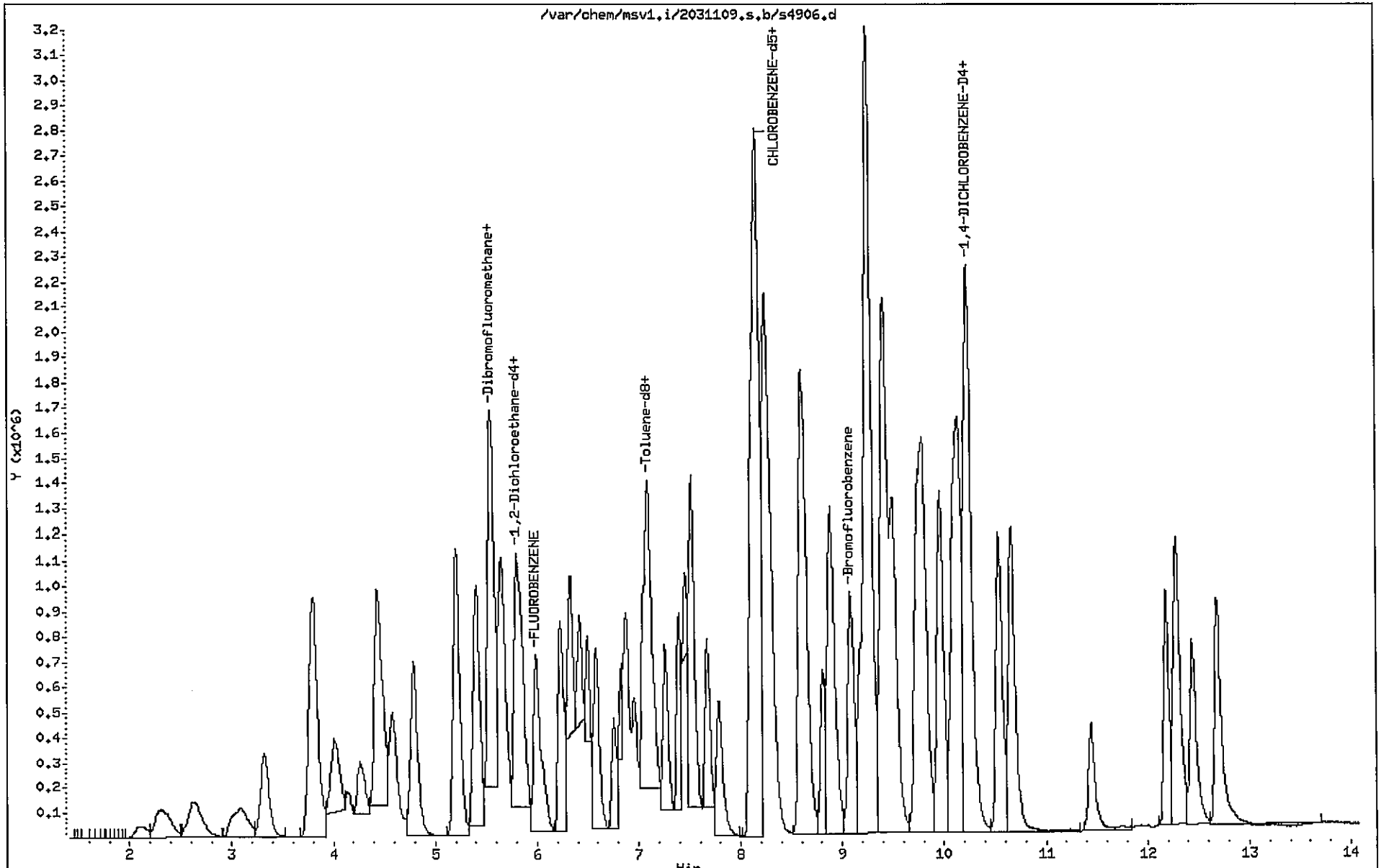
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031109.s.b/s4906.d
Date : 09-NOV-2003 09:17
Client ID: V1STD050
Sample Info: 1400*V1STD050*5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: KRV
Column diameter: 0.53

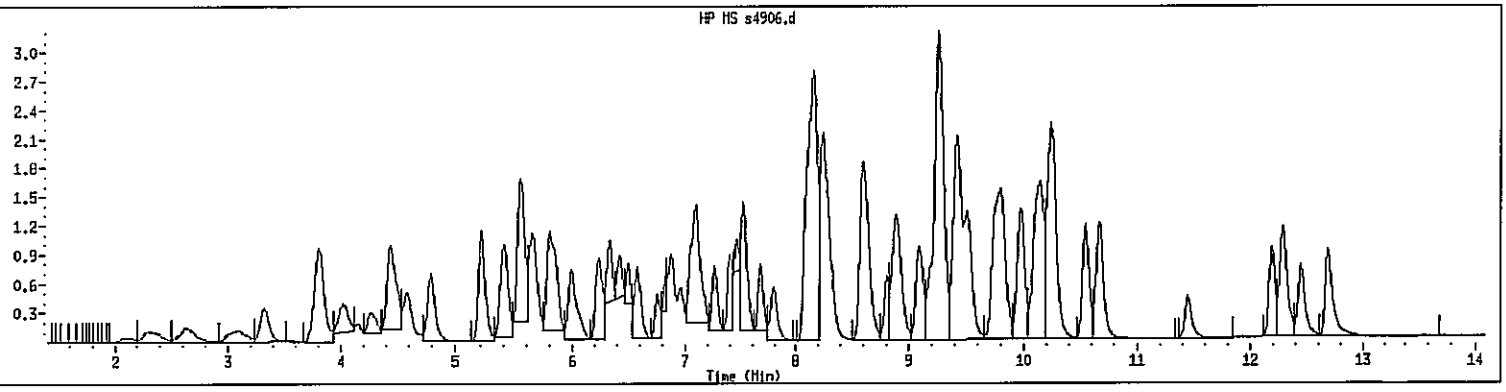
000292



Data file : /var/chem/msv1.i/2031109.s.b/s4906.d Page: 1
Report Date: 11/09/2003 09:34

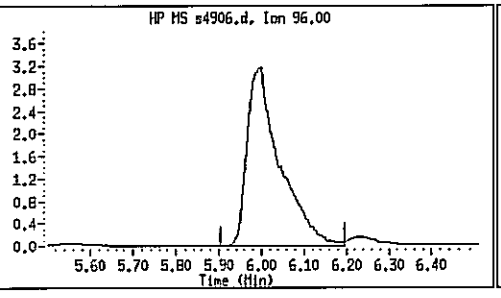
MANUAL INTEGRATION GRAPHIC REPORT

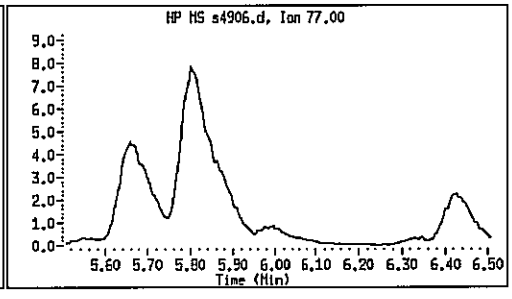
Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 09-NOV-2003 09:17 Instrument : msv1.i
Operator : KRV
Sample Info : 1400*V1STD050*5-5-5
Misc Info : MSV~3964~*1*RSP
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260b



CONCENTRATIONS

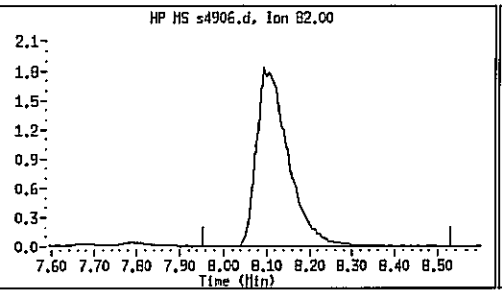
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
5.000	1.000	96	1684332	50	50	80-120	100
5.006	1.001	77	0			0- 0	0

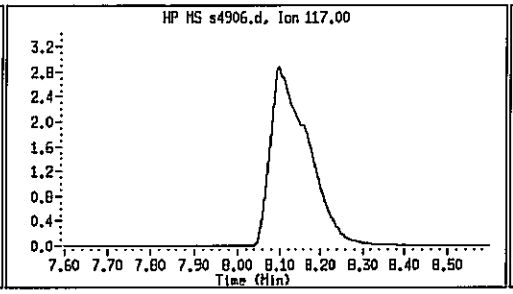


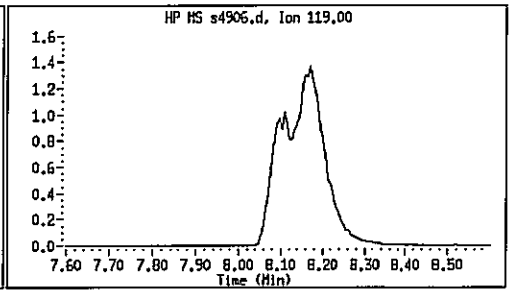


CONCENTRATIONS

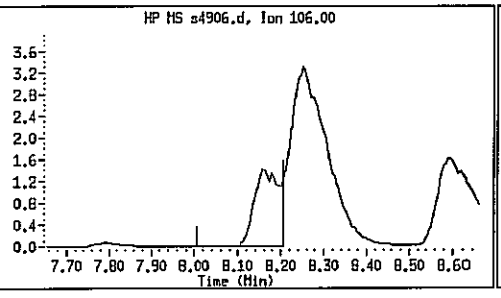
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 70 CHLOROBENZENE-d5				CAS#: 3114-55-4			
8.092	1.000	82	935136	50	50	80-120	100
8.098	1.001	117	0			0- 0	0
8.098	1.001	119	0			0- 0	0

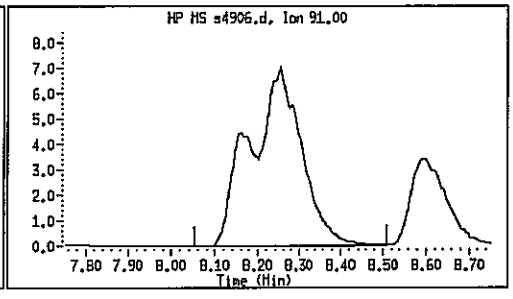




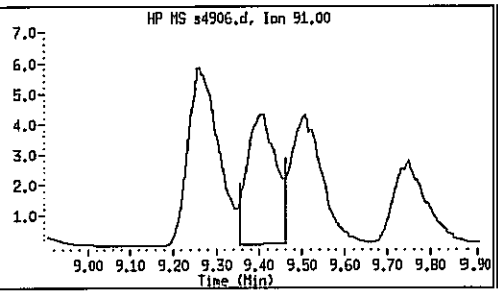


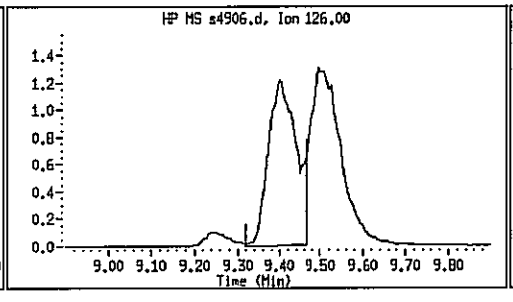
72 Ethylbenzene +				CAS#: 100-41-4			
8.155	1.008	106	583427	49	49	80-120	100
8.253	1.020	91	5990632			821-1232	1027

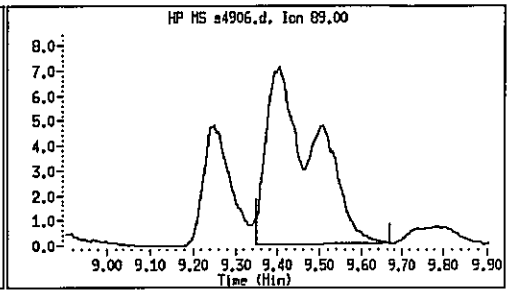




86 2-Chlorotoluene				CAS#: 95-49-8			
9.404	0.920	91	2043303	47	47	80-120	100
9.399	0.919	126	576297			23- 34	28
9.404	0.920	89	565483			22- 33	28

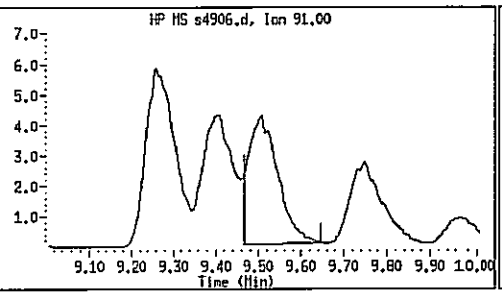


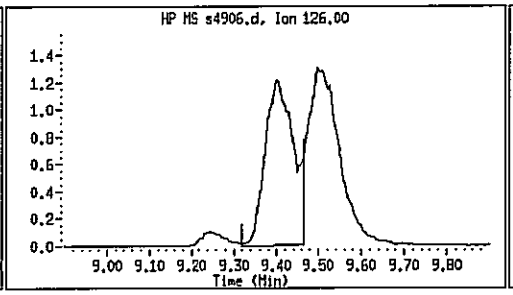


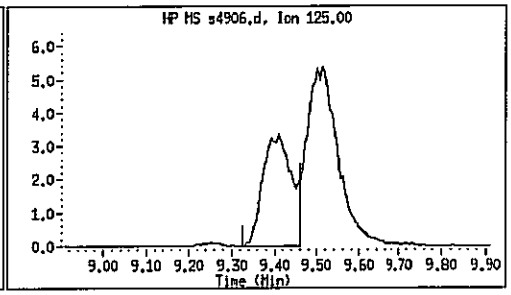


CONCENTRATIONS

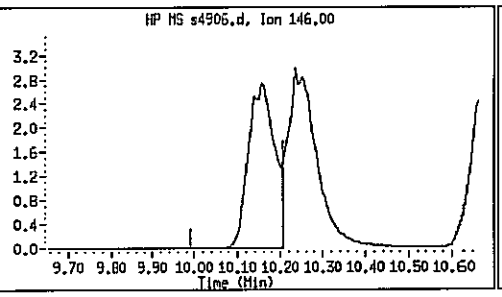
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 4-Chlorotoluene			CAS#: 106-43-4				
9.508	0.930	91	1993253	46	46	80-120	100
9.399	0.919	126	576297			23- 35	29
9.410	0.920	125	159810			6- 10	8

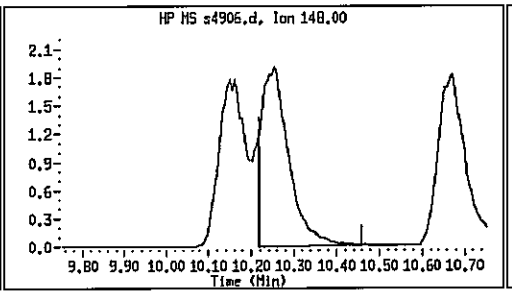


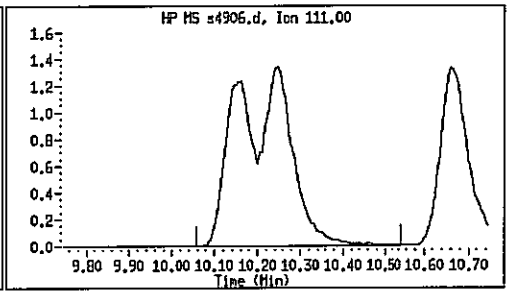




95 1,3-Dichlorobenzene			CAS#: 541-73-1				
10.155	0.993	146	1179075	52	52	80-120	100
10.253	1.003	148	835447			57- 85	71
10.247	1.002	111	1164294			79-118	99







Data File: /var/chem/msv2.i/2031107.s.b/t0282.d

Date : 07-NOV-2003 10:06

Client ID: V2BFB

Instrument: msv2.i

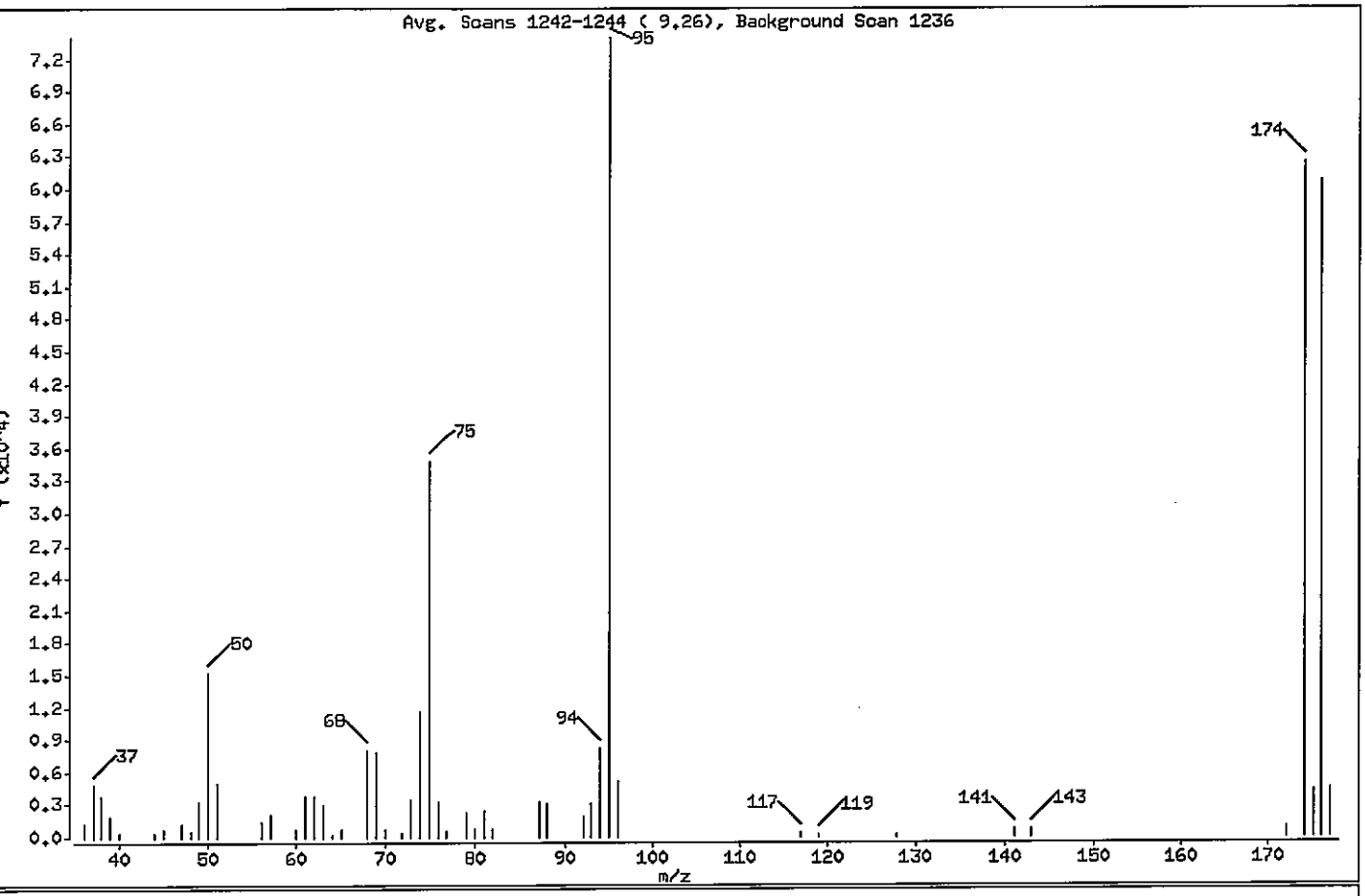
Sample Info: 1000xV2BFB

Operator: RSP

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	20.46
75	30.00 - 60.00% of mass 95	47.11
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 99.99% of mass 95	84.35
175	5.00 - 9.00% of mass 174	5.83 (6.91)
176	95.00 - 101.00% of mass 174	81.94 (97.14)
177	5.00 - 9.00% of mass 176	5.89 (7.18)

Data File: /var/chem/msv2.i/2031107.s.b/t0282.d

Date : 07-NOV-2003 10:06

Client ID: V2BFB

Instrument: msv2.i

Sample Info: 1000xV2BFB

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53

Data File: t0282.d

Spectrum: Avg. Scans 1242-1244 (9.26), Background Scan 1236

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1118	57.00	2066	75.00	34848	96.00	5049
37.00	4781	60.00	702	76.00	3279	117.00	331
38.00	3732	61.00	3782	77.00	564	119.00	162
39.00	1814	62.00	3677	79.00	2170	128.00	146
40.00	269	63.00	2866	80.00	651	141.00	620
44.00	332	64.00	140	81.00	2360	143.00	631
45.00	731	65.00	746	82.00	617	172.00	777
47.00	1246	68.00	8047	87.00	3275	174.00	62392
48.00	434	69.00	7786	88.00	3081	175.00	4314
49.00	3247	70.00	671	92.00	1955	176.00	60608
50.00	15137	72.00	279	93.00	3055	177.00	4354
51.00	4974	73.00	3338	94.00	8197		
56.00	1304	74.00	11603	95.00	73968		

Data File: /var/chem/msv2.i/2031107.s.b/t0282.d

Date : 07-NOV-2003 10:06

Client ID: V2BFB

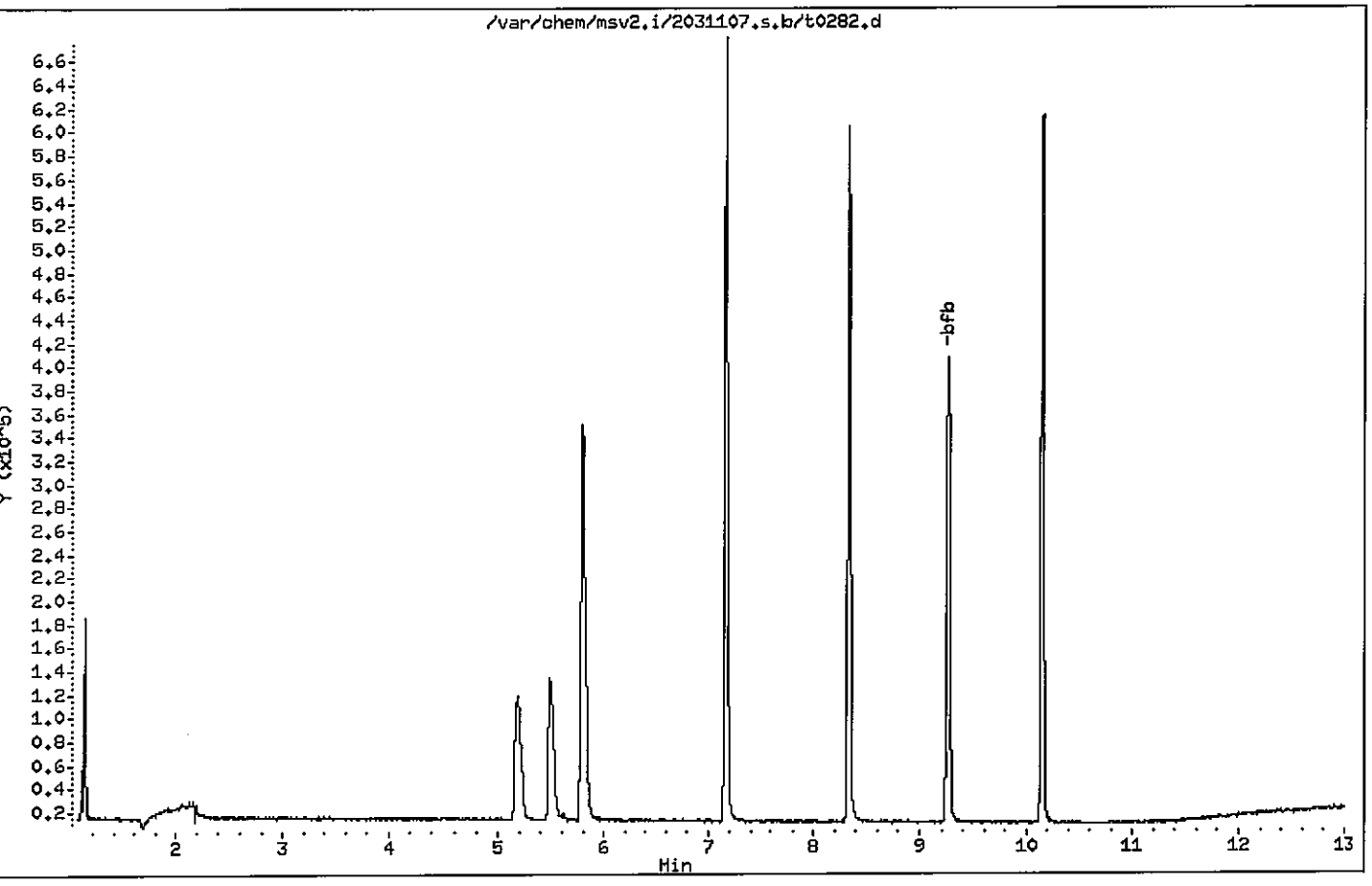
Instrument: msv2.i

Sample Info: 1000HV2BFB

Operator: RSP

Column phase: DB-624-30M

Column diameter: 0.53



000298

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0285.d
Lab Smp Id: 1201 Client Smp ID: V2STD005
Inj Date : 07-NOV-2003 11:32
Operator : RSP Inst ID: msv2.i
Smp Info : 1201*V2STD005*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:08 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:32 Cal File: t0285.d
Als bottle: 6 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.390	1.390	(0.238)	26983	5.00000	5.00
23 Hexane	57	3.985	3.985	(0.683)	20045	5.00000	5.00(M)
2 Chloromethane ++	50	1.542	1.542	(0.264)	27489	5.00000	5.00
3 Vinyl Chloride +	62	1.628	1.628	(0.279)	19649	5.00000	5.08
5 Bromomethane	94	1.918	1.918	(0.329)	14278	5.00000	5.00
6 Chloroethane	64	2.011	2.011	(0.345)	13044	5.00000	5.00(M)
7 Trichlorofluoromethane	101	2.248	2.248	(0.385)	25993	5.00000	5.00
10 1,1-Dichloroethene +	96	2.770	2.770	(0.475)	13730	5.00000	5.00
11 1,1,2Trichlotrifluoroethane	101	2.783	2.783	(0.477)	16561	5.00000	5.00
12 Acetone	43	2.836	2.836	(0.486)	4697	5.00000	5.00(a)
13 Methyl Iodide	142	2.922	2.922	(0.501)	29250	5.00000	5.00
14 Carbon Disulfide	76	2.994	2.994	(0.513)	51729	5.00000	5.00
18 Methylene Chloride	49	3.331	3.331	(0.571)	20434	5.00000	5.00(a)
20 Acrylonitrile	53	3.628	3.628	(0.622)	16166	25.0000	25.0
21 trans-1,2-Dichloroethene	61	3.661	3.661	(0.628)	21322	5.00000	5.00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15	Methyl Acetate	43	3.232	3.232	(0.554)	9221	5.00000	5.00
22	MTBE	73	3.701	3.701	(0.634)	32517	5.00000	5.00
24	1,1-Dichloroethane ++	63	4.130	4.130	(0.708)	38268	5.00000	5.00
25	Vinyl Acetate	43	3.991	3.991	(0.684)	14905	5.00000	4.60(a)
30	2,2-Dichloropropane	77	4.737	4.737	(0.812)	35994	5.00000	5.00
31	cis-1,2-Dichloroethene	61	4.737	4.737	(0.812)	42649	5.00000	5.00
32	2-Butanone	43	4.783	4.783	(0.820)	8318	5.00000	5.00(a)
36	Bromochloromethane	128	4.975	4.975	(0.853)	15159	5.00000	5.00
37	Chloroform +	83	5.061	5.061	(0.868)	50587	5.00000	5.00
38	Dibromofluoromethane	111	5.213	5.213	(0.894)	31589	5.00000	5.00
39	1,1,1-Trichloroethane	97	5.232	5.232	(0.897)	40309	5.00000	5.00
42	1,1-Dichloropropene	75	5.391	5.391	(0.924)	30989	5.00000	5.00
43	Carbon Tetrachloride	117	5.397	5.397	(0.925)	35885	5.00000	5.00
44	1,2-Dichloroethane-d4	67	5.523	5.523	(0.947)	14882	5.00000	5.00
45	Benzene	78	5.582	5.582	(0.957)	115308	5.00000	5.03
46	1,2-Dichloroethane	62	5.595	5.595	(0.959)	35274	5.00000	5.00
47	FLUOROBENZENE	96	5.833	5.833	(1.000)	1089339	50.0000	
48	Trichloroethene	130	6.163	6.163	(1.057)	27365	5.00000	5.00
49	Methyl Cyclohexane	83	6.335	6.335	(1.086)	35549	5.00000	5.00
50	1,2-Dichloropropane +	63	6.348	6.348	(1.088)	32616	5.00000	5.10
51	Dibromomethane	93	6.447	6.447	(1.105)	15656	5.00000	5.00
54	Bromodichloromethane	83	6.586	6.586	(1.129)	34030	5.00000	5.00
55	2-Chloroethyl vinyl ether	63	6.850	6.850	(1.174)	43535	5.00000	5.00
139	1 Bromo-2-chloroethane	144	6.850	6.850	(0.819)	3141	5.00000	5.03
56	cis-1,3-Dichloropropene	75	6.962	6.962	(1.194)	36169	5.00000	5.00
57	4-methyl-2-pentanone	43	7.088	7.088	(1.215)	13199	5.00000	5.00
58	Toluene-d8	98	7.193	7.193	(0.860)	76959	5.00000	5.00
59	Toluene +	91	7.246	7.246	(0.867)	112525	5.00000	5.00
60	trans-1,3-Dichloropropene	75	7.411	7.411	(0.886)	30224	5.00000	5.00
62	1,1,2-Trichloroethane	97	7.563	7.563	(0.904)	20882	5.00000	5.00
64	1,3-Dichloropropane	76	7.702	7.702	(0.921)	36211	5.00000	5.00
65	Tetrachloroethene	164	7.702	7.702	(0.921)	20824	5.00000	5.00
66	2-Hexanone	43	7.774	7.774	(0.930)	8516	5.00000	5.00
68	Dibromochloromethane	129	7.886	7.886	(0.943)	26089	5.00000	5.00
69	1,2-Dibromoethane(EDB)	107	7.985	7.985	(0.955)	20655	5.00000	5.00
70	CHLOROBENZENE-d5	82	8.362	8.362	(1.000)	386075	50.0000	
71	Chlorobenzene ++	112	8.382	8.382	(1.002)	87349	5.00000	5.00
72	1,1,1,2-Tetrachloroethane	133	8.441	8.441	(1.009)	25561	5.00000	5.00
73	Ethylbenzene +	106	8.461	8.461	(1.012)	34520	5.00000	5.00
74	p,m-Xylene	106	8.560	8.560	(1.024)	89466	10.0000	10.0
76	o-Xylene	106	8.877	8.877	(1.062)	37568	5.00000	5.00
77	Styrene	104	8.883	8.883	(1.062)	63986	5.00000	5.00
78	Bromoform ++	173	9.035	9.035	(1.081)	14883	5.00000	5.00
79	Isopropylbenzene	105	9.161	9.161	(1.096)	84326	5.00000	5.00
81	Bromofluorobenzene	174	9.293	9.293	(0.913)	24832	5.00000	5.00
84	1,1,2,2-Tetrachloroethane++	83	9.372	9.372	(0.921)	24130	5.00000	5.00
85	trans-1,4-Dichloro-2-Butene	53	9.418	9.418	(0.925)	4919	5.00000	5.00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.418	9.418	(0.925)	26619	5.00000	5.00
87 Bromobenzene	77	9.418	9.418	(0.925)	49887	5.00000	5.00
75 Total 1,2-Dichloroethene	61				63971	10.0000	10.0
88 n-Propylbenzene	91	9.484	9.484	(0.932)	113709	5.00000	5.00
89 2-Chlorotoluene	91	9.570	9.570	(0.940)	68848	5.00000	5.00(M)
90 1,3,5-Trimethylbenzene	105	9.616	9.616	(0.945)	80297	5.00000	5.00
91 4-Chlorotoluene	91	9.649	9.649	(0.948)	85498	5.00000	5.00
92 tert-butylbenzene	91	9.874	9.874	(0.970)	46785	5.00000	5.00(H)
93 1,2,4-Trimethylbenzene	105	9.907	9.907	(0.973)	79441	5.00000	5.00
96 sec-Butylbenzene	105	10.032	10.032	(0.986)	96672	5.00000	5.00
97 p-Isopropyltoluene	119	10.131	10.131	(0.995)	82270	5.00000	5.00
98 1,3-Dichlorobenzene	146	10.131	10.131	(0.995)	51640	5.00000	5.00
99 1,4-DICHLOROBENZENE-D4	152	10.177	10.177	(1.000)	333478	50.0000	
100 1,4-Dichlorobenzene	146	10.190	10.190	(1.001)	58289	5.00000	5.00
101 n-Butylbenzene	91	10.428	10.428	(1.025)	56815	5.00000	5.00
102 1,2-Dichlorobenzene	146	10.468	10.468	(1.029)	47988	5.00000	5.00
103 1,2-Dibromo-3-Chloropropane	157	10.989	10.989	(1.080)	3104	5.00000	5.00
105 1,2,4-Trichlorobenzene	180	11.544	11.544	(1.134)	18749	5.00000	5.00
106 Hexachlorobutadiene	225	11.643	11.643	(1.144)	12011	5.00000	5.00
107 Napthalene	128	11.716	11.716	(1.151)	30047	5.00000	5.00
108 1,2,3-Trichlorobenzene	180	11.874	11.874	(1.167)	18177	5.00000	5.00
109 TOTAL XYLENE	106				127034	15.0000	15.0
40 Cyclohexane	56	5.292	5.292	(0.907)	43371	5.00000	5.00

QC Flag Legend

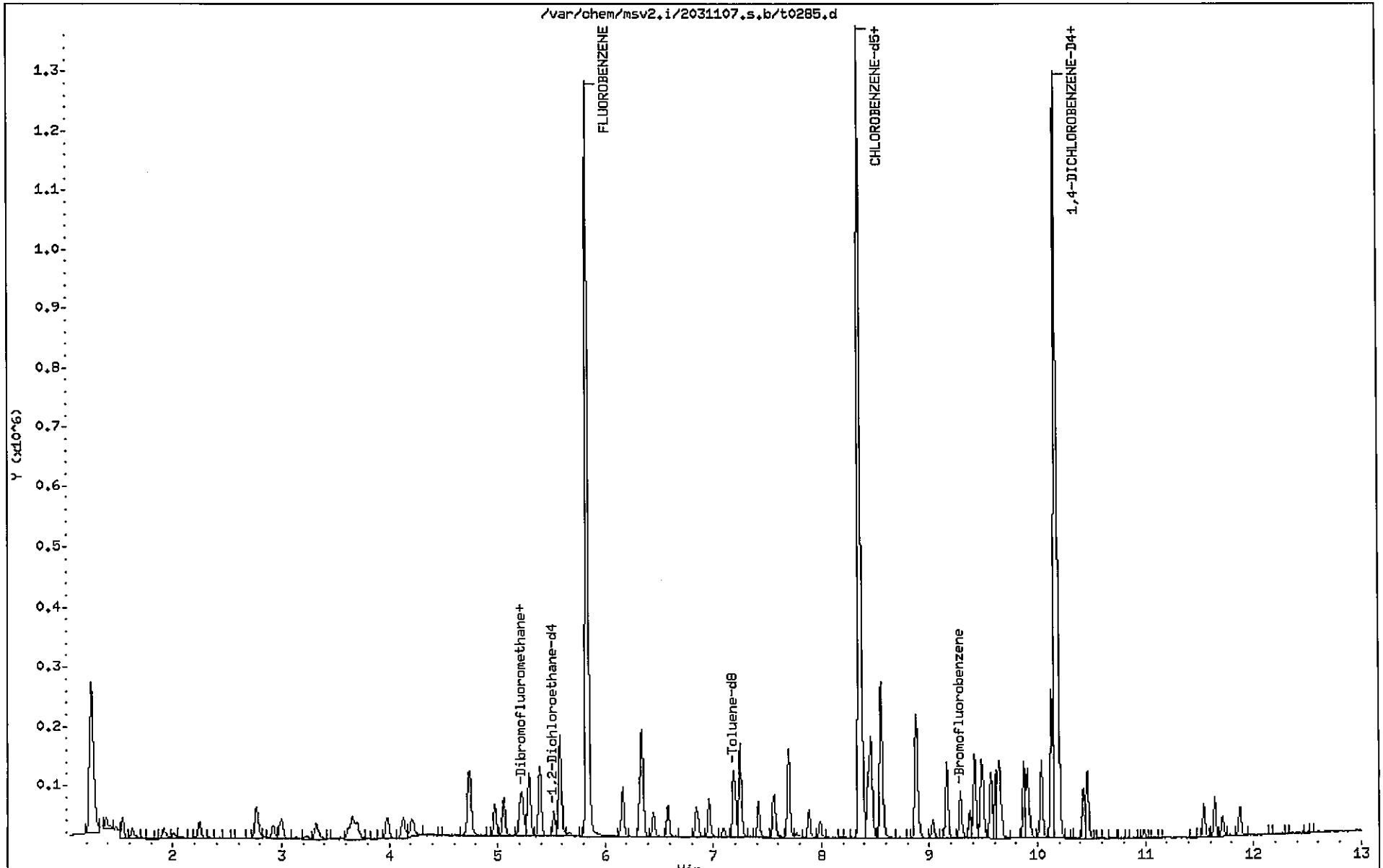
- Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Compound response manually integrated.
- Operator selected an alternate compound hit.

Data File: /var/chem/msv2.i/2031107.s.b/t0285.d
Date : 07-NOV-2003 11:32
Client ID: V2STD005
Sample Info: 1201WV2STD005W5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

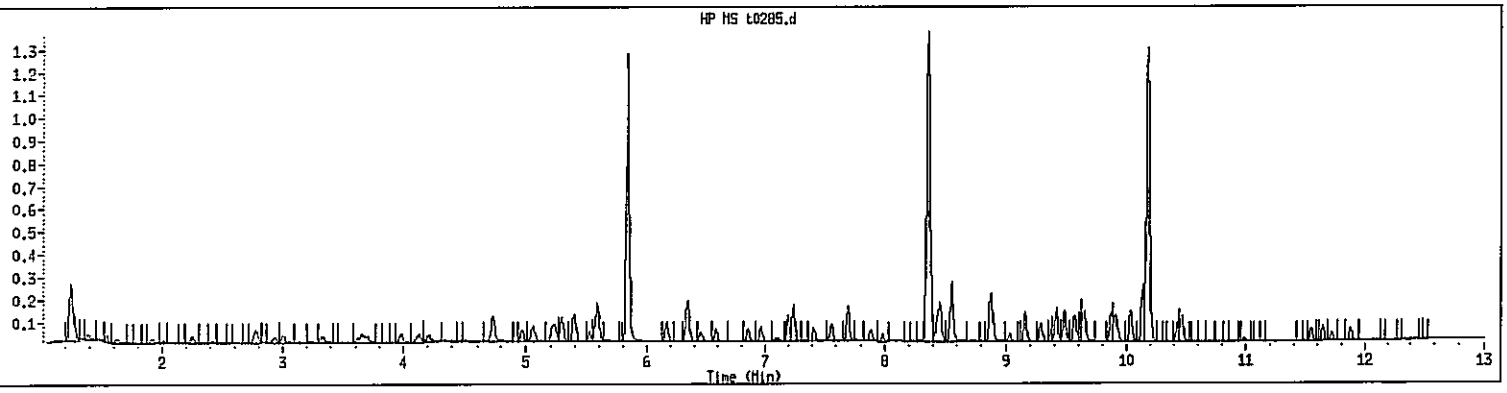
Operator: RSP
Column diameter: 0.53

000302



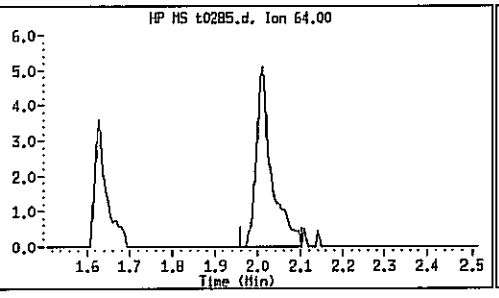
MANUAL INTEGRATION GRAPHIC REPORT

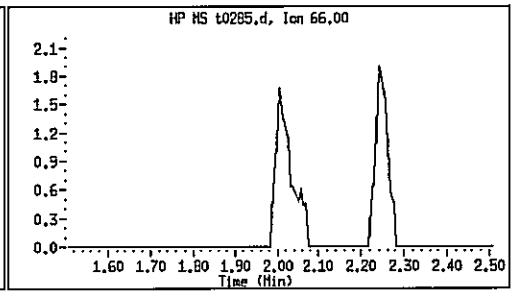
Lab ID : 1201 SampleType : CALIB_1
Injection Date: 07-NOV-2003 11:32 Instrument : msv2.i
Operator : RSP
Sample Info : 1201*V2STD005*5-5-5
Misc Info : MSV~3954~*1*HJL
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE Compound Sublist: 8260B



CONCENTRATIONS

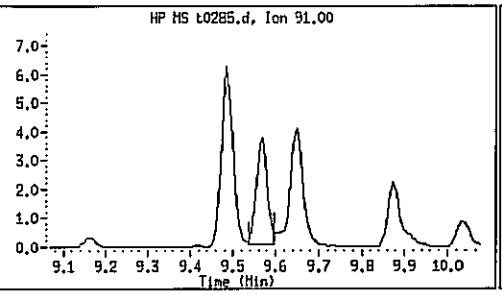
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
6 Chloroethane			CAS#: 75-00-3				
.011	0.345	64	13044	5	5	80-120	100
.007	0.344	66	0			0- 0	0

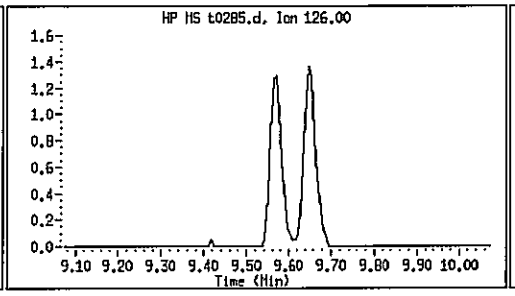


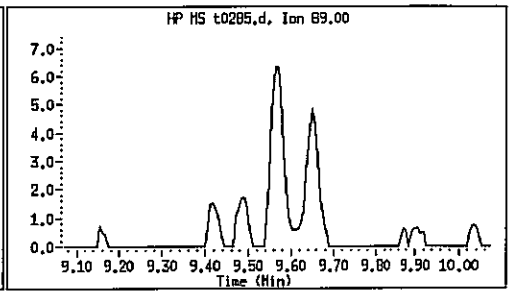


CONCENTRATIONS

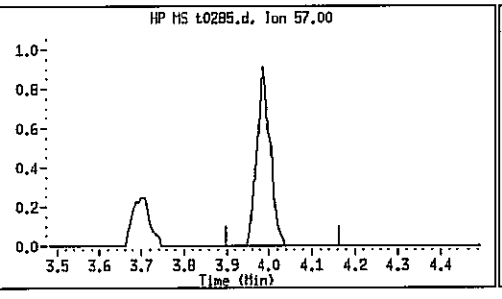
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 2-Chlorotoluene			CAS#: 95-49-8				
9.570	0.940	91	68848	5	5	80-120	100
9.573	0.941	126	0			0- 0	0
9.573	0.941	89	0			0- 0	0

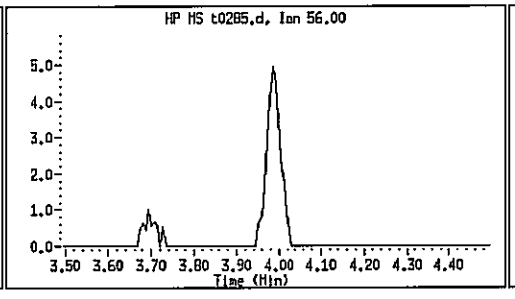


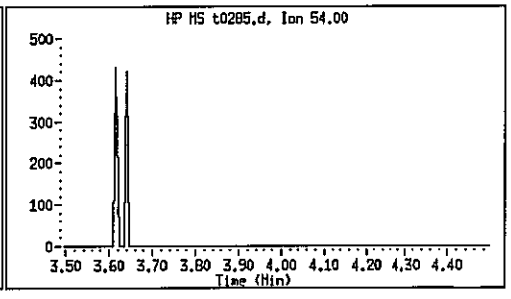




23 Hexane			CAS#: 110-54-3				
3.985	0.683	57	20045	5	5	80-120	100
3.994	0.685	56	0			0- 0	0
3.994	0.685	54	0			0- 0	0







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0286.d
Lab Smp Id: 1202 Client Smp ID: V2STD020
Inj Date : 07-NOV-2003 11:57
Operator : RSP Inst ID: msv2.i
Smp Info : 1202*V2STD020*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:08 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:57 Cal File: t0286.d
Als bottle: 7 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.388	1.388	(0.238)	110305	20.0000	20.0
23 Hexane	57	3.989	3.989	(0.683)	84462	20.0000	20.3
2 Chloromethane ++	50	1.540	1.540	(0.264)	115588	20.0000	20.2
3 Vinyl Chloride +	62	1.626	1.626	(0.278)	75136	20.0000	19.3
5 Bromomethane	94	1.916	1.916	(0.328)	55173	20.0000	19.4
6 Chloroethane	64	2.009	2.009	(0.344)	46625	20.0000	18.6
7 Trichlorofluoromethane	101	2.247	2.247	(0.385)	104327	20.0000	19.8
10 1,1-Dichloroethene +	96	2.768	2.768	(0.474)	56912	20.0000	20.1
11 1,1,2Trichlotrifluoroethane	101	2.781	2.781	(0.476)	66812	20.0000	19.8
12 Acetone	43	2.834	2.834	(0.485)	14787	20.0000	20.0(a)
13 Methyl Iodide	142	2.927	2.927	(0.501)	129944	20.0000	20.8
14 Carbon Disulfide	76	3.006	3.006	(0.515)	209124	20.0000	19.9
18 Methylene Chloride	49	3.329	3.329	(0.570)	84409	20.0000	20.1
20 Acrylonitrile	53	3.626	3.626	(0.621)	71733	100.000	104
21 trans-1,2-Dichloroethene	61	3.659	3.659	(0.627)	86206	20.0000	19.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15	Methyl Acetate	43	3.237	3.237	(0.554)	36914	20.0000	19.8
22	MTBE	73	3.699	3.699	(0.634)	136707	20.0000	20.2
24	1,1-Dichloroethane ++	63	4.128	4.128	(0.707)	144220	20.0000	19.2
25	Vinyl Acetate	43	3.989	3.989	(0.683)	59125	20.0000	18.5
30	2,2-Dichloropropane	77	4.742	4.742	(0.812)	153659	20.0000	20.4
31	cis-1,2-Dichloroethene	61	4.742	4.742	(0.812)	184559	20.0000	20.5
32	2-Butanone	43	4.788	4.788	(0.820)	35883	20.0000	20.5(a)
36	Bromochloromethane	128	4.980	4.980	(0.853)	65509	20.0000	20.5
37	Chloroform +	83	5.059	5.059	(0.867)	205448	20.0000	19.9
38	Dibromofluoromethane	111	5.211	5.211	(0.893)	129876	20.0000	20.0
39	1,1,1-Trichloroethane	97	5.237	5.237	(0.897)	164799	20.0000	20.0
42	1,1-Dichloropropene	75	5.396	5.396	(0.924)	144506	20.0000	21.3
43	Carbon Tetrachloride	117	5.396	5.396	(0.924)	146238	20.0000	19.9
44	1,2-Dichloroethane-d4	67	5.528	5.528	(0.947)	60069	20.0000	19.8
45	Benzene	78	5.581	5.581	(0.956)	500048	20.0000	20.8
46	1,2-Dichloroethane	62	5.594	5.594	(0.958)	149454	20.0000	20.3
47	FLUOROBENZENE	96	5.838	5.838	(1.000)	1117358	50.0000	
48	Trichloroethene	130	6.168	6.168	(1.057)	123430	20.0000	20.9
49	Methyl Cyclohexane	83	6.340	6.340	(1.086)	186639	20.0000	20.0
50	1,2-Dichloropropane +	63	6.353	6.353	(1.088)	142222	20.0000	21.1
51	Dibromomethane	93	6.452	6.452	(1.105)	67422	20.0000	20.5
54	Bromodichloromethane	83	6.584	6.584	(1.128)	142102	20.0000	20.2
55	2-Chloroethyl vinyl ether	63	6.848	6.848	(1.173)	203525	20.0000	21.3
139	1 Bromo-2-chloroethane	144	6.855	6.855	(0.820)	15651	20.0000	22.7
56	cis-1,3-Dichloropropene	75	6.960	6.960	(1.192)	174901	20.0000	21.6
57	4-methyl-2-pentanone	43	7.086	7.086	(1.214)	71555	20.0000	20.0
58	Toluene-d8	98	7.191	7.191	(0.860)	383137	20.0000	21.9
59	Toluene +	91	7.244	7.244	(0.867)	512276	20.0000	21.0
60	trans-1,3-Dichloropropene	75	7.409	7.409	(0.886)	149949	20.0000	21.9
62	1,1,2-Trichloroethane	97	7.561	7.561	(0.904)	93371	20.0000	20.8
64	1,3-Dichloropropane	76	7.700	7.700	(0.921)	165382	20.0000	21.0
65	Tetrachloroethene	164	7.700	7.700	(0.921)	93833	20.0000	20.9
66	2-Hexanone	43	7.766	7.766	(0.929)	48510	20.0000	20.0
68	Dibromochloromethane	129	7.885	7.885	(0.943)	111380	20.0000	20.4
69	1,2-Dibromoethane(EDB)	107	7.990	7.990	(0.956)	93605	20.0000	21.0
70	CHLOROBENZENE-d5	82	8.360	8.360	(1.000)	397258	50.0000	
71	Chlorobenzene ++	112	8.386	8.386	(1.003)	365380	20.0000	20.2
72	1,1,1,2-Tetrachloroethane	133	8.439	8.439	(1.009)	112175	20.0000	20.6
73	Ethylbenzene +	106	8.466	8.466	(1.013)	172209	20.0000	21.9
74	p,m-Xylene	106	8.558	8.558	(1.024)	435185	40.0000	43.3
76	o-Xylene	106	8.875	8.875	(1.062)	201435	20.0000	20.0
77	Styrene	104	8.882	8.882	(1.062)	350987	20.0000	20.0
78	Bromoform ++	173	9.033	9.033	(1.081)	62915	20.0000	20.3
79	Isopropylbenzene	105	9.159	9.159	(1.096)	476931	20.0000	20.0
81	Bromofluorobenzene	174	9.291	9.291	(0.913)	120935	20.0000	21.2
84	1,1,2,2-Tetrachloroethane++	83	9.370	9.370	(0.921)	99566	20.0000	19.5
85	trans-1,4-Dichloro-2-Butene	53	9.416	9.416	(0.925)	24859	20.0000	21.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.416	9.416	(0.925)	127640	20.0000	21.0
87	Bromobenzene	77	9.423	9.423	(0.926)	235520	20.0000	20.9
75	Total 1,2-Dichloroethene	61				270765	40.0000	40.4
88	n-Propylbenzene	91	9.482	9.482	(0.932)	586703	20.0000	21.8
89	2-Chlorotoluene	91	9.568	9.568	(0.940)	380455	20.0000	22.5
90	1,3,5-Trimethylbenzene	105	9.614	9.614	(0.945)	413927	20.0000	21.8
91	4-Chlorotoluene	91	9.647	9.647	(0.948)	409367	20.0000	21.0
92	tert-butylbenzene	91	9.872	9.872	(0.970)	253487	20.0000	22.3(H)
93	1,2,4-Trimethylbenzene	105	9.905	9.905	(0.973)	404097	20.0000	21.6
96	sec-Butylbenzene	105	10.037	10.037	(0.986)	511741	20.0000	20.0
97	p-Isopropyltoluene	119	10.129	10.129	(0.995)	443099	20.0000	20.0
98	1,3-Dichlorobenzene	146	10.136	10.136	(0.996)	239189	20.0000	20.7
99	1,4-DICHLOROBENZENE-D4	152	10.176	10.176	(1.000)	359890	50.0000	
100	1,4-Dichlorobenzene	146	10.195	10.195	(1.002)	248930	20.0000	19.9
101	n-Butylbenzene	91	10.426	10.426	(1.025)	322941	20.0000	22.7
102	1,2-Dichlorobenzene	146	10.466	10.466	(1.029)	214501	20.0000	20.3
103	1,2-Dibromo-3-Chloropropane	157	10.988	10.988	(1.080)	14172	20.0000	20.6
105	1,2,4-Trichlorobenzene	180	11.549	11.549	(1.135)	96686	20.0000	20.0
106	Hexachlorobutadiene	225	11.641	11.641	(1.144)	55697	20.0000	20.7
107	Napthalene	128	11.720	11.720	(1.152)	151311	20.0000	21.5
108	1,2,3-Trichlorobenzene	180	11.879	11.879	(1.167)	88798	20.0000	20.0
109	TOTAL XYLENE	106				636620	60.0000	63.3
40	Cyclohexane	56	5.297	5.297	(0.907)	213113	20.0000	20.0

QC Flag Legend

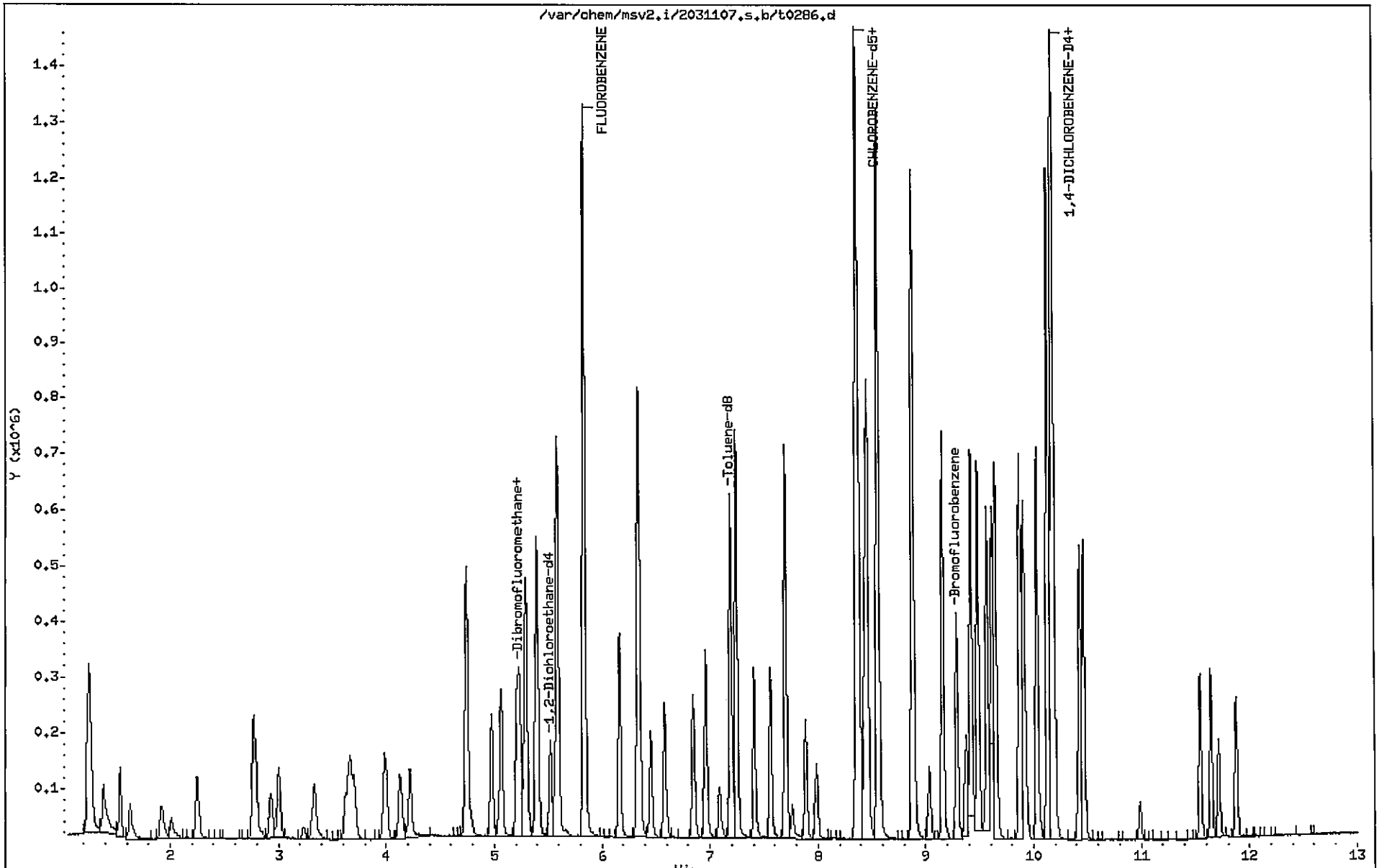
L - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv2.i/2031107.s.b/t0286.d
Date : 07-NOV-2003 11:57
Client ID: V2STD020
Sample Info: 1202MV2STD020M5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP
Column diameter: 0.53

000308



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0287.d
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Inj Date : 07-NOV-2003 12:21
Operator : RSP Inst ID: msv2.i
Smp Info : 1203*V2STD050*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:08 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 12:21 Cal File: t0287.d
Als bottle: 8 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.385	1.385	(0.237)	305532	50.0000	51.6
23 Hexane	57	3.993	3.993	(0.684)	237138	50.0000	52.6
2 Chloromethane ++	50	1.537	1.537	(0.263)	301458	50.0000	50.1
3 Vinyl Chloride +	62	1.629	1.629	(0.279)	208115	50.0000	50.5
5 Bromomethane	94	1.920	1.920	(0.329)	143869	50.0000	48.7
6 Chloroethane	64	2.012	2.012	(0.344)	119804	50.0000	46.9
7 Trichlorofluoromethane	101	2.250	2.250	(0.385)	286312	50.0000	51.0
10 1,1-Dichloroethene +	96	2.771	2.771	(0.474)	151369	50.0000	50.5
11 1,1,2Trichlotrifluoroethane	101	2.778	2.778	(0.476)	187733	50.0000	51.9
12 Acetone	43	2.837	2.837	(0.486)	36818	50.0000	50.0
13 Methyl Iodide	142	2.930	2.930	(0.502)	355215	50.0000	52.6
14 Carbon Disulfide	76	3.002	3.002	(0.514)	561949	50.0000	50.4
18 Methylene Chloride	49	3.332	3.332	(0.570)	211222	50.0000	48.4
20 Acrylonitrile	53	3.623	3.623	(0.620)	170734	250.000	240(A)
21 trans-1,2-Dichloroethene	61	3.663	3.663	(0.627)	228243	50.0000	49.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15 Methyl Acetate	43	3.233	3.233	(0.554)	83057	50.0000	44.5
22 MTBE	73	3.702	3.702	(0.634)	349298	50.0000	49.4
24 1,1-Dichloroethane ++	63	4.138	4.138	(0.708)	439317	50.0000	53.5
25 Vinyl Acetate	43	3.993	3.993	(0.684)	166582	50.0000	49.6
30 2,2-Dichloropropane	77	4.739	4.739	(0.811)	410471	50.0000	51.1
31 cis-1,2-Dichloroethene	61	4.745	4.745	(0.812)	499332	50.0000	51.8
32 2-Butanone	43	4.785	4.785	(0.819)	90440	50.0000	49.4
36 Bromochloromethane	128	4.976	4.976	(0.852)	164732	50.0000	49.3
37 Chloroform +	83	5.062	5.062	(0.867)	530593	50.0000	49.2
38 Dibromofluoromethane	111	5.214	5.214	(0.893)	317541	50.0000	47.6
39 1,1,1-Trichloroethane	97	5.240	5.240	(0.897)	447584	50.0000	51.0
42 1,1-Dichloropropene	75	5.399	5.399	(0.924)	409000	50.0000	54.6
43 Carbon Tetrachloride	117	5.399	5.399	(0.924)	393035	50.0000	50.6
44 1,2-Dichloroethane-d4	67	5.524	5.524	(0.946)	147208	50.0000	47.4
45 Benzene	78	5.584	5.584	(0.956)	1326012	50.0000	51.8
46 1,2-Dichloroethane	62	5.597	5.597	(0.958)	367288	50.0000	48.3
47 FLUOROBENZENE	96	5.841	5.841	(1.000)	1176685	50.0000	
48 Trichloroethene	130	6.165	6.165	(1.055)	346822	50.0000	53.8
49 Methyl Cyclohexane	83	6.336	6.336	(1.085)	574809	50.0000	50.3
50 1,2-Dichloropropane +	63	6.350	6.350	(1.087)	370405	50.0000	51.6
51 Dibromomethane	93	6.455	6.455	(1.105)	170682	50.0000	49.5
54 Bromodichloromethane	83	6.587	6.587	(1.128)	368325	50.0000	49.8
55 2-Chloroethyl vinyl ether	63	6.851	6.851	(1.173)	537314	50.0000	52.2
139 1 Bromo-2-chloroethane	144	6.851	6.851	(0.819)	42044	50.0000	55.5
56 cis-1,3-Dichloropropene	75	6.964	6.964	(1.192)	481589	50.0000	54.2
57 4-methyl-2-pentanone	43	7.089	7.089	(1.214)	193064	50.0000	49.9
58 Toluene-d8	98	7.195	7.195	(0.860)	1027958	50.0000	53.5
59 Toluene +	91	7.247	7.247	(0.867)	1387246	50.0000	52.4
60 trans-1,3-Dichloropropene	75	7.413	7.413	(0.886)	405595	50.0000	53.8
62 1,1,2-Trichloroethane	97	7.564	7.564	(0.904)	231362	50.0000	49.2
64 1,3-Dichloropropane	76	7.703	7.703	(0.921)	432360	50.0000	51.3
65 Tetrachloroethene	164	7.703	7.703	(0.921)	257086	50.0000	52.7
66 2-Hexanone	43	7.762	7.762	(0.928)	133704	50.0000	50.0
68 Dibromochloromethane	129	7.888	7.888	(0.943)	289212	50.0000	50.0
69 1,2-Dibromoethane(EDB)	107	7.987	7.987	(0.955)	236433	50.0000	50.0
70 CHLOROBENZENE-d5	82	8.363	8.363	(1.000)	420451	50.0000	
71 Chlorobenzene ++	112	8.383	8.383	(1.002)	962439	50.0000	50.1
72 1,1,1,2-Tetrachloroethane	133	8.442	8.442	(1.009)	297855	50.0000	51.2
73 Ethylbenzene +	106	8.462	8.462	(1.012)	489273	50.0000	55.6
74 p,m-Xylene	106	8.555	8.555	(1.023)	1203484	100.000	108
76 o-Xylene	106	8.878	8.878	(1.062)	566050	50.0000	50.0
77 Styrene	104	8.885	8.885	(1.062)	1003445	50.0000	50.1
78 Bromoform ++	173	9.037	9.037	(1.081)	162245	50.0000	49.6
79 Isopropylbenzene	105	9.162	9.162	(1.096)	1418225	50.0000	50.2
81 Bromofluorobenzene	174	9.294	9.294	(0.913)	329102	50.0000	52.2
84 1,1,2,2-Tetrachloroethane++	83	9.373	9.373	(0.921)	248461	50.0000	46.7
85 trans-1,4-Dichloro-2-Butene	53	9.420	9.420	(0.925)	67725	50.0000	52.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.420	9.420	(0.925)	324158	50.0000	49.7
87	Bromobenzene	77	9.420	9.420	(0.925)	637236	50.0000	51.5
75	Total 1,2-Dichloroethene	61				727575	100.000	102
88	n-Propylbenzene	91	9.486	9.486	(0.932)	1714160	50.0000	55.6
89	2-Chlorotoluene	91	9.571	9.571	(0.940)	962318	50.0000	51.7
90	1,3,5-Trimethylbenzene	105	9.618	9.618	(0.945)	1181853	50.0000	54.8
91	4-Chlorotoluene	91	9.651	9.651	(0.948)	1165630	50.0000	53.5
92	tert-butylbenzene	91	9.875	9.875	(0.970)	743569	50.0000	56.5(H)
93	1,2,4-Trimethylbenzene	105	9.908	9.908	(0.973)	1172635	50.0000	55.1
96	sec-Butylbenzene	105	10.034	10.034	(0.986)	1522636	50.0000	50.2
97	p-Isopropyltoluene	119	10.133	10.133	(0.995)	1322590	50.0000	50.2
98	1,3-Dichlorobenzene	146	10.133	10.133	(0.995)	666720	50.0000	52.2
99	1,4-DICHLOROBENZENE-D4	152	10.179	10.179	(1.000)	388656	50.0000	
100	1,4-Dichlorobenzene	146	10.199	10.199	(1.002)	656478	50.0000	49.0
101	n-Butylbenzene	91	10.430	10.430	(1.025)	1074292	50.0000	61.8
102	1,2-Dichlorobenzene	146	10.469	10.469	(1.029)	578801	50.0000	50.6
103	1,2-Dibromo-3-Chloropropane	157	10.991	10.991	(1.080)	37167	50.0000	50.0
105	1,2,4-Trichlorobenzene	180	11.552	11.552	(1.135)	293698	50.0000	50.3
106	Hexachlorobutadiene	225	11.644	11.644	(1.144)	164794	50.0000	54.3
107	Napthalene	128	11.717	11.717	(1.151)	412681	50.0000	52.8
108	1,2,3-Trichlorobenzene	180	11.882	11.882	(1.167)	252417	50.0000	50.1
109	TOTAL XYLENE	106				1769534	150.000	158
40	Cyclohexane	56	5.293	5.293	(0.906)	643644	50.0000	50.3

QC Flag Legend

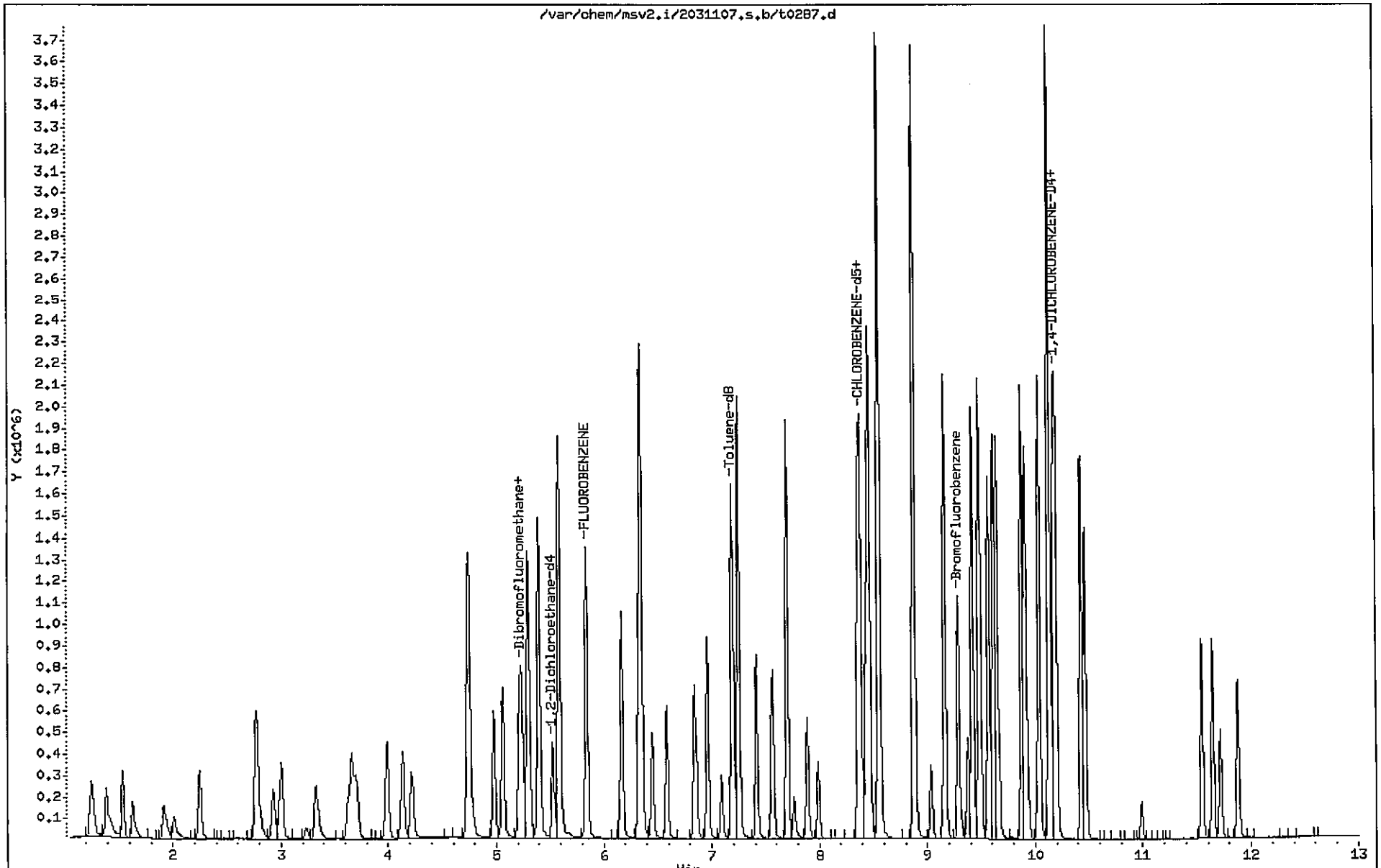
A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv2.i/2031107.s.b/t0287.d
Date : 07-NOV-2003 12:21
Client ID: V2STD050
Sample Info: 1203*V2STD050*5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP
Column diameter: 0.53

000312



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0288.d
Lab Smp Id: 1204 Client Smp ID: V2STD100
Inj Date : 07-NOV-2003 12:46
Operator : RSP Inst ID: msv2.i
Smp Info : 1204*V2STD100*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:09 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 12:46 Cal File: t0288.d
Als bottle: 9 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.391	1.391	(1.000)	626435	100.000	106
23 Hexane	57	3.992	3.992	(1.000)	487033	100.000	107
2 Chloromethane ++	50	1.543	1.543	(1.000)	595917	100.000	101
3 Vinyl Chloride +	62	1.628	1.628	(1.000)	418145	100.000	103
5 Bromomethane	94	1.919	1.919	(1.000)	296801	100.000	102
6 Chloroethane	64	2.011	2.011	(1.000)	236499	100.000	95.6
7 Trichlorofluoromethane	101	2.249	2.249	(1.000)	577686	100.000	104
10 1,1-Dichloroethene +	96	2.771	2.771	(1.000)	305962	100.000	103
11 1,1,2Trichlotrifluoroethane	101	2.784	2.784	(1.000)	383117	100.000	106
12 Acetone	43	2.843	2.843	(1.000)	74118	100.000	101
13 Methyl Iodide	142	2.929	2.929	(1.000)	715664	100.000	106
14 Carbon Disulfide	76	3.002	3.002	(1.000)	1147210	100.000	104
18 Methylene Chloride	49	3.332	3.332	(1.000)	415936	100.000	97.8
20 Acrylonitrile	53	3.629	3.629	(1.000)	353448	500.000	504(A)
21 trans-1,2-Dichloroethene	61	3.662	3.662	(1.000)	449202	100.000	100

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)	
15 Methyl Acetate	43	3.239	3.239	(1.000)	161099	100.000	90.6	
22 MTBE	73	3.701	3.701	(1.000)	706451	100.000	101	
24 1,1-Dichloroethane ++	63	4.137	4.137	(1.000)	905624	100.000	109	
25 Vinyl Acetate	43	3.992	3.992	(1.000)	326100	100.000	99.0	
30 2,2-Dichloropropane	77	4.745	4.745	(1.000)	828468	100.000	104	
31 cis-1,2-Dichloroethene	61	4.745	4.745	(1.000)	1009970	100.000	105	
32 2-Butanone	43	4.784	4.784	(1.000)	197056	100.000	107	
36 Bromochloromethane	128	4.976	4.976	(1.000)	335186	100.000	102	
37 Chloroform +	83	5.061	5.061	(1.000)	1062861	100.000	100	
38 Dibromofluoromethane	111	5.213	5.213	(1.000)	642869	100.000	98.6	
39 1,1,1-Trichloroethane	97	5.240	5.240	(1.000)	898685	100.000	103	
42 1,1-Dichloropropene	75	5.398	5.398	(1.000)	851077	100.000	111	
43 Carbon Tetrachloride	117	5.405	5.405	(1.000)	802671	100.000	104	
44 1,2-Dichloroethane-d4	67	5.524	5.524	(1.000)	307571	100.000	101	
45 Benzene	78	5.583	5.583	(1.000)	2673546	100.000	105	
46 1,2-Dichloroethane	62	5.596	5.596	(1.000)	731983	100.000	98.4	
47 FLUOROBENZENE	96	5.841	5.841	(1.000)	1155835	50.0000		(M)
48 Trichloroethene	130	6.171	6.171	(1.000)	734143	100.000	111	
49 Methyl Cyclohexane	83	6.342	6.342	(1.000)	1220320	100.000	101	
50 1,2-Dichloropropane +	63	6.349	6.349	(1.000)	732644	100.000	103	
51 Dibromomethane	93	6.455	6.455	(1.000)	347701	100.000	102	
54 Bromodichloromethane	83	6.587	6.587	(1.000)	752705	100.000	103	
55 2-Chloroethyl vinyl ether	63	6.851	6.851	(1.000)	1127646	100.000	108	
139 1 Bromo-2-chloroethane	144	6.851	6.851	(0.819)	90808	100.000	117	
56 cis-1,3-Dichloropropene	75	6.963	6.963	(1.000)	1018654	100.000	112	
57 4-methyl-2-pentanone	43	7.088	7.088	(1.000)	421909	100.000	101	
58 Toluene-d8	98	7.194	7.194	(0.860)	2165672	100.000	110	
59 Toluene +	91	7.247	7.247	(0.867)	2829567	100.000	106	
60 trans-1,3-Dichloropropene	75	7.412	7.412	(0.886)	871578	100.000	112	
62 1,1,2-Trichloroethane	97	7.564	7.564	(0.904)	476391	100.000	102	
64 1,3-Dichloropropane	76	7.702	7.702	(0.921)	893381	100.000	106	
65 Tetrachloroethene	164	7.702	7.702	(0.921)	555537	100.000	111	
66 2-Hexanone	43	7.762	7.762	(0.928)	300106	100.000	101	
68 Dibromochloromethane	129	7.887	7.887	(0.943)	603777	100.000	104	
69 1,2-Dibromoethane(EDB)	107	7.993	7.993	(0.956)	492647	100.000	104	
70 CHLOROBENZENE-d5	82	8.363	8.363	(1.000)	414525	50.0000		
71 Chlorobenzene ++	112	8.389	8.389	(1.003)	1971814	100.000	103	
72 1,1,1,2-Tetrachloroethane	133	8.442	8.442	(1.009)	623042	100.000	106	
73 Ethylbenzene +	106	8.468	8.468	(1.013)	1032262	100.000	114	
74 p,m-Xylene	106	8.561	8.561	(1.024)	2533851	200.000	223	
76 o-Xylene	106	8.877	8.877	(1.062)	1200112	100.000	101	
77 Styrene	104	8.884	8.884	(1.062)	2135338	100.000	101	
78 Bromoform ++	173	9.036	9.036	(1.081)	351313	100.000	107	
79 Isopropylbenzene	105	9.161	9.161	(1.096)	3062850	100.000	101	
81 Bromofluorobenzene	174	9.293	9.293	(0.913)	716736	100.000	110	
84 1,1,2,2-Tetrachloroethane++	83	9.373	9.373	(0.921)	531011	100.000	100	
85 trans-1,4-Dichloro-2-Butene	53	9.419	9.419	(0.925)	146190	100.000	111	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86 1,2,3-Trichloropropane	75	9.419	9.419	(0.925)	680868	100.000	104
87 Bromobenzene	77	9.419	9.419	(0.925)	1334673	100.000	106
75 Total 1,2-Dichloroethene	61				1459172	200.000	205
88 n-Propylbenzene	91	9.485	9.485	(0.932)	3646573	100.000	114
89 2-Chlorotoluene	91	9.571	9.571	(0.940)	2055930	100.000	108
90 1,3,5-Trimethylbenzene	105	9.617	9.617	(0.945)	2439278	100.000	110
91 4-Chlorotoluene	91	9.650	9.650	(0.948)	2382488	100.000	107
92 tert-butylbenzene	91	9.874	9.874	(0.970)	1570071	100.000	114(H)
93 1,2,4-Trimethylbenzene	105	9.907	9.907	(0.973)	2405596	100.000	110
96 sec-Butylbenzene	105	10.039	10.039	(0.986)	3245305	100.000	101
97 p-Isopropyltoluene	119	10.132	10.132	(0.995)	2830763	100.000	101
98 1,3-Dichlorobenzene	146	10.138	10.138	(0.996)	1405053	100.000	108
99 1,4-DICHLOROBENZENE-D4	152	10.178	10.178	(1.000)	386586	50.0000	
100 1,4-Dichlorobenzene	146	10.198	10.198	(1.002)	1364412	100.000	102
101 n-Butylbenzene	91	10.429	10.429	(1.025)	2271966	100.000	122
102 1,2-Dichlorobenzene	146	10.469	10.469	(1.029)	1200128	100.000	104
103 1,2-Dibromo-3-Chloropropane	157	10.997	10.997	(1.080)	83628	100.000	109
105 1,2,4-Trichlorobenzene	180	11.558	11.558	(1.136)	664782	100.000	101
106 Hexachlorobutadiene	225	11.657	11.657	(1.145)	364405	100.000	115
107 Napthalene	128	11.723	11.723	(1.152)	971221	100.000	118
108 1,2,3-Trichlorobenzene	180	11.888	11.888	(1.168)	564728	100.000	101
109 TOTAL XYLENE	106				3733963	300.000	324
40 Cyclohexane	56	5.299	5.299	(1.000)	1345264	100.000	101

QC Flag Legend

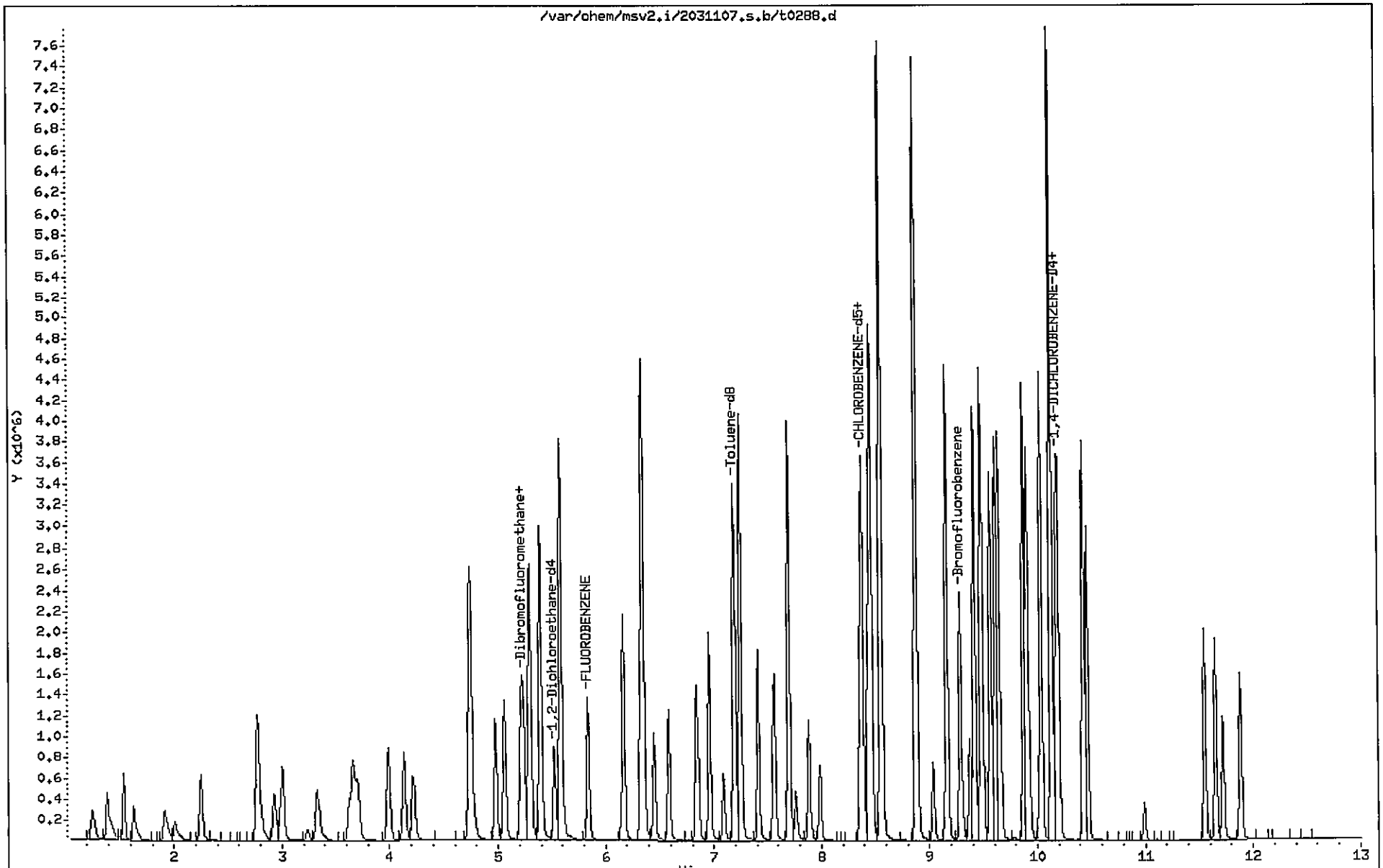
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv2.i/2031107.s.b/t0288.d
Date : 07-NOV-2003 12:46
Client ID: V2STD100
Sample Info: 1204*V2STD100*5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP
Column diameter: 0.53

000316

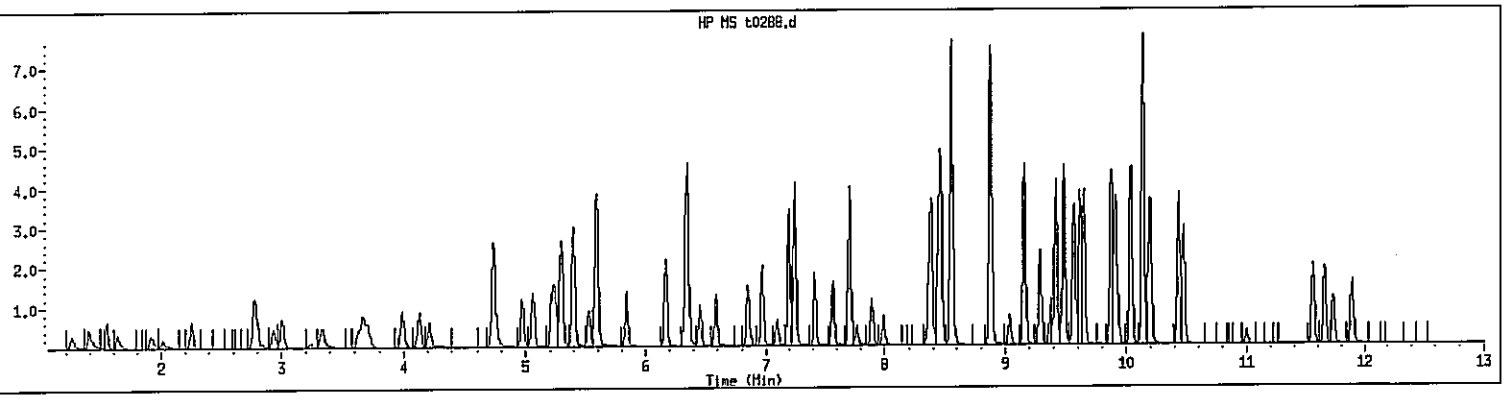


Data file : /var/chem/msv2.i/2031107.s.b/t0288.d
Report Date: 11/08/2003 08:09

MANUAL INTEGRATION GRAPHIC REPORT

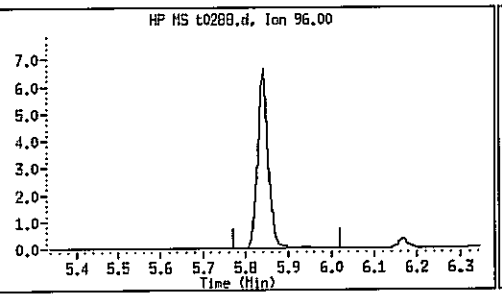
Lab ID : 1204
Injection Date: 07-NOV-2003 12:46
Operator : RSP
Sample Info : 1204*V2STD100*5-5-5
Misc Info : MSV~3954~*1*HJL
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

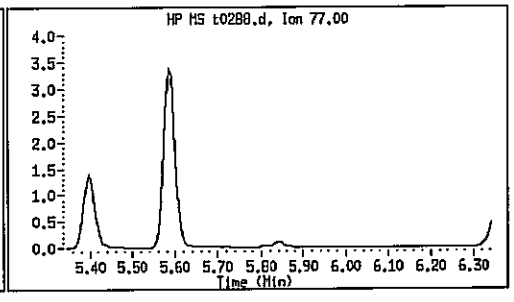
SampleType : CALIB_4
Instrument : msv2.i
Compound Sublist: 8260B



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
5.841	1.000	96	1155835	50	50	80-120	100
5.843	1.000	77	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0289.d
Lab Smp Id: 1205 Client Smp ID: V2STD200
Inj Date : 07-NOV-2003 13:10
Operator : RSP Inst ID: msv2.i
Smp Info : 1205*V2STD200*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:09 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 10 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.387	1.387	(1.000)	1297815	200.000	210(A)
23 Hexane	57	3.994	3.994	(1.000)	1023568	200.000	215
2 Chloromethane ++	50	1.539	1.539	(1.000)	1273412	200.000	207(A)
3 Vinyl Chloride +	62	1.631	1.631	(1.000)	870720	200.000	206(A)
5 Bromomethane	94	1.915	1.915	(1.000)	609054	200.000	202(A)
6 Chloroethane	64	2.007	2.007	(1.000)	501413	200.000	197
7 Trichlorofluoromethane	101	2.252	2.252	(1.000)	1195444	200.000	207(A)
10 1,1-Dichloroethene +	96	2.767	2.767	(1.000)	632439	200.000	205(A)
11 1,1,2Trichlotrifluoroethane	101	2.780	2.780	(1.000)	775593	200.000	206(A)
12 Acetone	43	2.839	2.839	(1.000)	145092	200.000	199
13 Methyl Iodide	142	2.932	2.932	(1.000)	1485284	200.000	210(A)
14 Carbon Disulfide	76	3.004	3.004	(1.000)	2413123	200.000	209(A)
18 Methylene Chloride	49	3.334	3.334	(1.000)	871374	200.000	199
20 Acrylonitrile	53	3.631	3.631	(1.000)	761161	1000.00	1040(A)
21 trans-1,2-Dichloroethene	61	3.664	3.664	(1.000)	934600	200.000	202(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15	Methyl Acetate	43	3.235	3.235	(1.000)	352685	200.000	194
22	MTBE	73	3.704	3.704	(1.000)	1548634	200.000	212(A)
24	1,1-Dichloroethane ++	63	4.133	4.133	(1.000)	1442046	200.000	174
25	Vinyl Acetate	43	3.994	3.994	(1.000)	681035	200.000	201(A)
30	2,2-Dichloropropane	77	4.740	4.740	(1.000)	1739935	200.000	209(A)
31	cis-1,2-Dichloroethene	61	4.747	4.747	(1.000)	2101812	200.000	210(A)
32	2-Butanone	43	4.787	4.787	(1.000)	405324	200.000	211(A)
36	Bromochloromethane	128	4.978	4.978	(1.000)	734057	200.000	213(A)
37	Chloroform +	83	5.064	5.064	(1.000)	2265458	200.000	206(A)
38	Dibromofluoromethane	111	5.216	5.216	(1.000)	1361829	200.000	202(A)
39	1,1,1-Trichloroethane	97	5.242	5.242	(1.000)	1898202	200.000	209(A)
42	1,1-Dichloropropene	75	5.401	5.401	(1.000)	1785502	200.000	221(A)
43	Carbon Tetrachloride	117	5.401	5.401	(1.000)	1690154	200.000	210(A)
44	1,2-Dichloroethane-d4	67	5.526	5.526	(1.000)	653539	200.000	206(A)
45	Benzene	78	5.586	5.586	(1.000)	5715259	200.000	215(A)
46	1,2-Dichloroethane	62	5.599	5.599	(1.000)	1510966	200.000	198
47	FLUOROBENZENE	96	5.843	5.843	(1.000)	1189693	50.0000	(M)
48	Trichloroethene	130	6.167	6.167	(1.000)	1655304	200.000	234(A)
49	Methyl Cyclohexane	83	6.338	6.338	(1.000)	2599635	200.000	201
50	1,2-Dichloropropane +	63	6.351	6.351	(1.000)	1524420	200.000	207(A)
51	Dibromomethane	93	6.450	6.450	(1.000)	760244	200.000	213(A)
54	Bromodichloromethane	83	6.589	6.589	(1.000)	1637460	200.000	213(A)
55	2-Chloroethyl vinyl ether	63	6.847	6.847	(1.000)	2486588	200.000	225(A)
139	1 Bromo-2-chloroethane	144	6.853	6.853	(0.819)	200844	200.000	236
56	cis-1,3-Dichloropropene	75	6.965	6.965	(1.000)	2256261	200.000	232(A)
57	4-methyl-2-pentanone	43	7.091	7.091	(1.000)	971202	200.000	203(A)
58	Toluene-d8	98	7.196	7.196	(0.860)	4730163	200.000	223(A)
59	Toluene +	91	7.249	7.249	(0.867)	6164546	200.000	216(A)
60	trans-1,3-Dichloropropene	75	7.414	7.414	(0.886)	1927872	200.000	228(A)
62	1,1,2-Trichloroethane	97	7.566	7.566	(0.904)	1079256	200.000	216(A)
64	1,3-Dichloropropane	76	7.698	7.698	(0.920)	1940076	200.000	214(A)
65	Tetrachloroethene	164	7.705	7.705	(0.921)	1247293	200.000	229(A)
66	2-Hexanone	43	7.758	7.758	(0.927)	702025	200.000	203(A)
68	Dibromochloromethane	129	7.890	7.890	(0.943)	1376348	200.000	221(A)
69	1,2-Dibromoethane(EDB)	107	7.989	7.989	(0.955)	1123341	200.000	220(A)
70	CHLOROBENZENE-d5	82	8.365	8.365	(1.000)	435323	50.0000	
71	Chlorobenzene ++	112	8.385	8.385	(1.002)	4316796	200.000	212(A)
72	1,1,1,2-Tetrachloroethane	133	8.444	8.444	(1.009)	1398606	200.000	221(A)
73	Ethylbenzene +	106	8.464	8.464	(1.012)	2253644	200.000	228(A)
74	p,m-Xylene	106	8.556	8.556	(1.023)	5428761	400.000	442(A)
76	o-Xylene	106	8.880	8.880	(1.062)	2594946	200.000	201(A)
77	Styrene	104	8.887	8.887	(1.062)	4630341	200.000	201(A)
78	Bromoform ++	173	9.038	9.038	(1.081)	801213	200.000	224(A)
79	Isopropylbenzene	105	9.164	9.164	(1.095)	6708983	200.000	201(A)
81	Bromofluorobenzene	174	9.289	9.289	(0.912)	1606271	200.000	232(A)
84	1,1,2,2-Tetrachloroethane++	83	9.375	9.375	(0.921)	1134327	200.000	207(A)
85	trans-1,4-Dichloro-2-Butene	53	9.415	9.415	(0.925)	322565	200.000	229(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.421	9.421	(0.925)	1515895	200.000	220(A)
87	Bromobenzene	77	9.421	9.421	(0.925)	2905525	200.000	220(A)
75	Total 1,2-Dichloroethene	61				3036412	400.000	411
88	n-Propylbenzene	91	9.487	9.487	(0.932)	7881969	200.000	230(A)
89	2-Chlorotoluene	91	9.573	9.573	(0.940)	4448167	200.000	222(A)
90	1,3,5-Trimethylbenzene	105	9.619	9.619	(0.945)	5171206	200.000	221(A)
91	4-Chlorotoluene	91	9.652	9.652	(0.948)	5083434	200.000	218(A)
92	tert-butylbenzene	91	9.877	9.877	(0.970)	3330255	200.000	228(AH)
93	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.973)	5052424	200.000	220(A)
96	sec-Butylbenzene	105	10.035	10.035	(0.986)	6977766	200.000	201(A)
97	p-Isopropyltoluene	119	10.134	10.134	(0.995)	6062855	200.000	201(A)
98	1,3-Dichlorobenzene	146	10.134	10.134	(0.995)	3153054	200.000	228(A)
99	1,4-DICHLOROBENZENE-D4	152	10.181	10.181	(1.000)	396386	50.0000	
100	1,4-Dichlorobenzene	146	10.200	10.200	(1.002)	2979346	200.000	213(A)
101	n-Butylbenzene	91	10.431	10.431	(1.025)	4757144	200.000	237(A)
102	1,2-Dichlorobenzene	146	10.471	10.471	(1.029)	2639086	200.000	218(A)
103	1,2-Dibromo-3-Chloropropane	157	10.993	10.993	(1.080)	194788	200.000	237(A)
105	1,2,4-Trichlorobenzene	180	11.554	11.554	(1.135)	1431302	200.000	201(A)
106	Hexachlorobutadiene	225	11.653	11.653	(1.145)	822716	200.000	240(A)
107	Napthalene	128	11.719	11.719	(1.151)	2026223	200.000	230(A)
108	1,2,3-Trichlorobenzene	180	11.884	11.884	(1.167)	1204649	200.000	201(A)
109	TOTAL XYLENE	106				8023707	600.000	643
40	Cyclohexane	56	5.295	5.295	(1.000)	2815020	200.000	200(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/msv2.i/2031107.s.b/t0289.d
Date : 07-NOV-2003 13:10
Client ID: V2STD200
Sample Info: 1205MV2STD200M5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP
Column diameter: 0.53

Page 1

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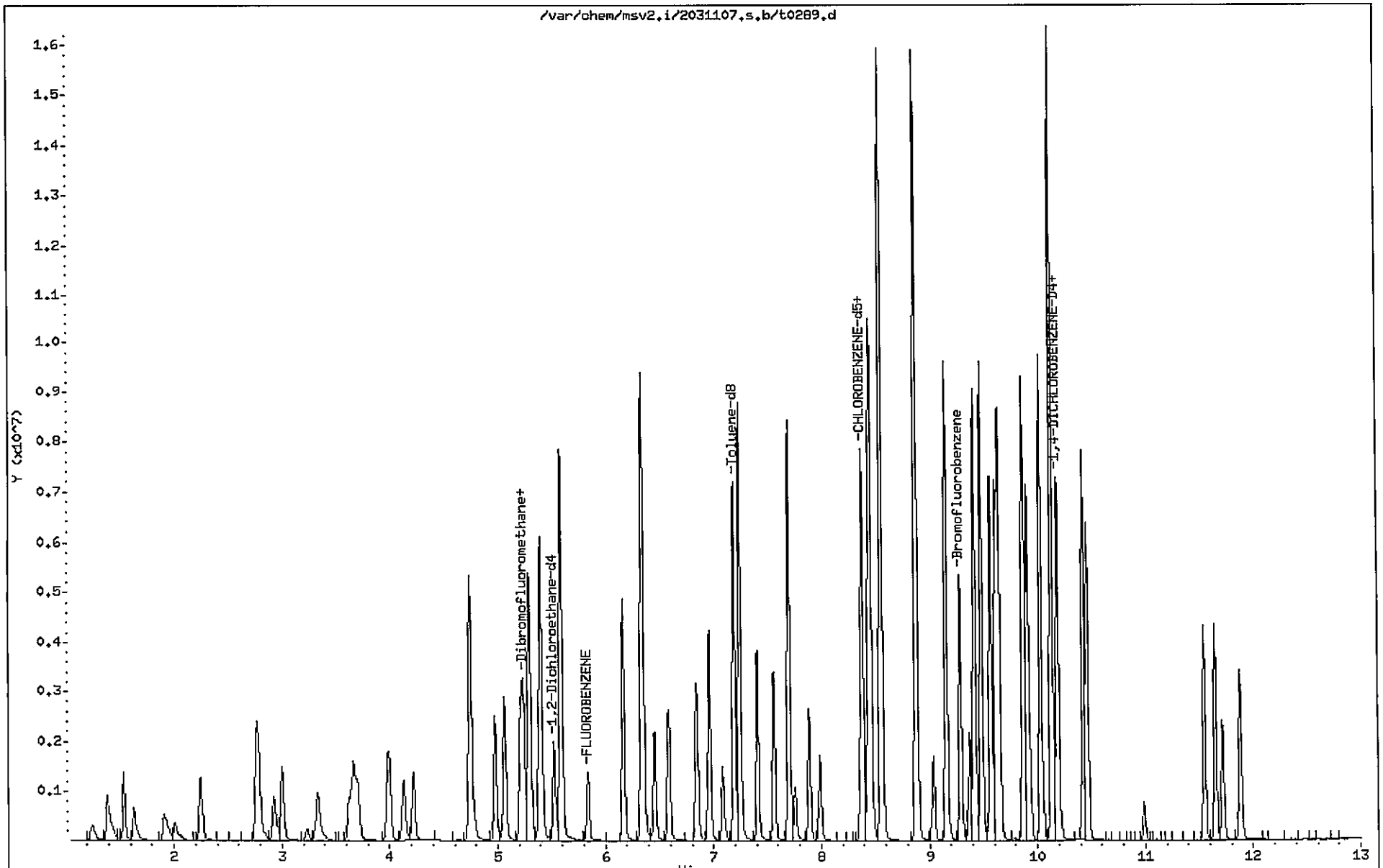
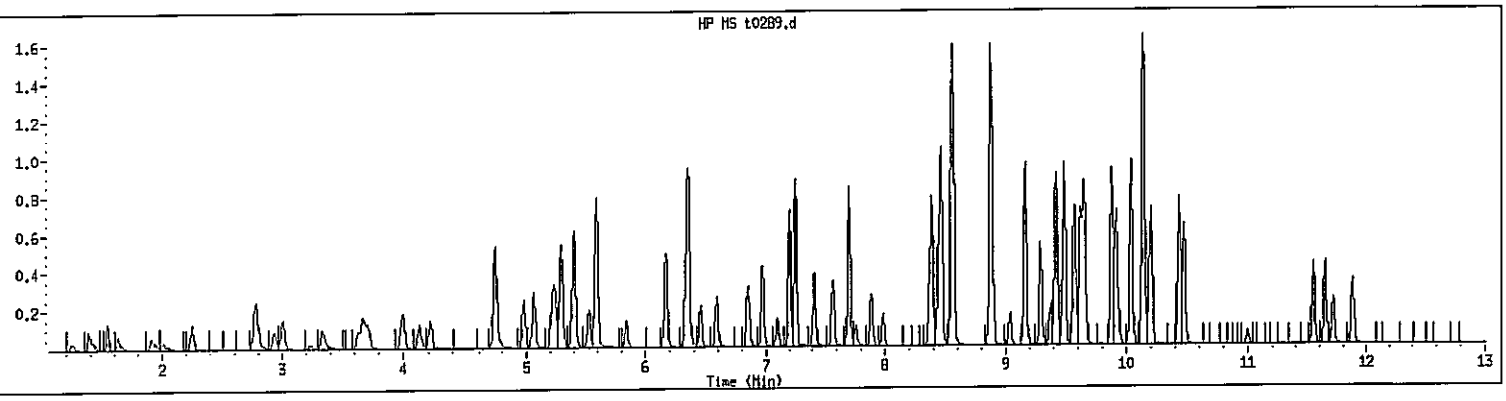


Data file : /var/chem/msv2.i/2031107.s.b/t0289.d
Report Date: 11/08/2003 08:09

MANUAL INTEGRATION GRAPHIC REPORT

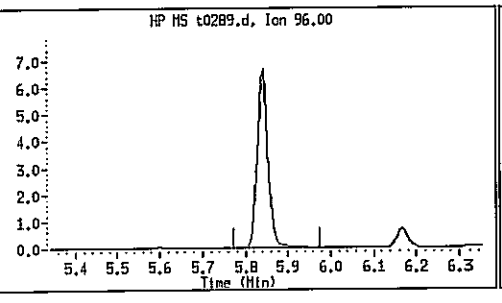
Lab ID : 1205
Injection Date: 07-NOV-2003 13:10
Operator : RSP
Sample Info : 1205*V2STD200*5-5-5
Misc Info : MSV~3954~*1*HJL
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

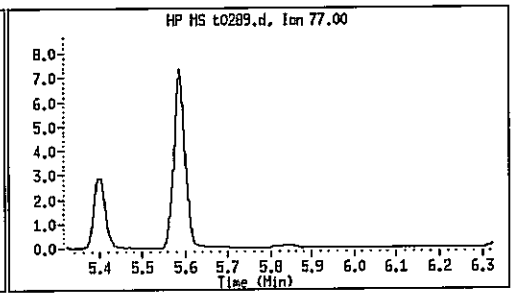
SampleType : CALIB_5
Instrument : msv2.i
Compound Sublist: 8260B



CONCENTRATIONS

RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
* 47 FLUOROBENZENE			CAS#: 462-06-6				
5.843	1.000	96	1189693	50	50	80-120	100
5.824	0.997	77	0			0- 0	0





Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0284.d
Lab Smp Id: 1206 Client Smp ID: V2STD002
Inj Date : 07-NOV-2003 11:08
Operator : RSP Inst ID: msv2.i
Smp Info : 1206*V2STD002*5-5-5
Misc Info : MSV~3954~*1*HJL
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:08 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:08 Cal File: t0284.d
Als bottle: 6 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
3 Vinyl Chloride +	62	1.628	1.628	(0.279)	7528	2.00000	2.00(a)
22 MTBE	73	3.695	3.695	(0.634)	13264	2.00000	(a)
25 Vinyl Acetate	43	3.978	3.978	(0.683)	6912	2.00000	2.00(a)
38 Dibromofluoromethane	111	5.206	5.206	(0.893)	12406	2.00000	(a)
45 Benzene	78	5.576	5.576	(0.957)	45049	2.00000	2.00(a)
47 FLUOROBENZENE	96	5.827	5.827	(1.000)	1077208	50.0000	
49 Methyl Cyclohexane	83	6.329	6.329	(1.086)	13014	2.00000	(a)
50 1,2-Dichloropropane +	63	6.342	6.342	(1.088)	12375	2.00000	2.00(a)
139 1 Bromo-2-chloroethane	144	6.850	6.850	(0.820)	1231	2.00000	2.00(a)
70 CHLOROBENZENE-d5	82	8.356	8.356	(1.000)	382182	50.0000	
99 1,4-DICHLOROBENZENE-D4	152	10.171	10.171	(1.000)	323342	50.0000	

QC Flag Legend

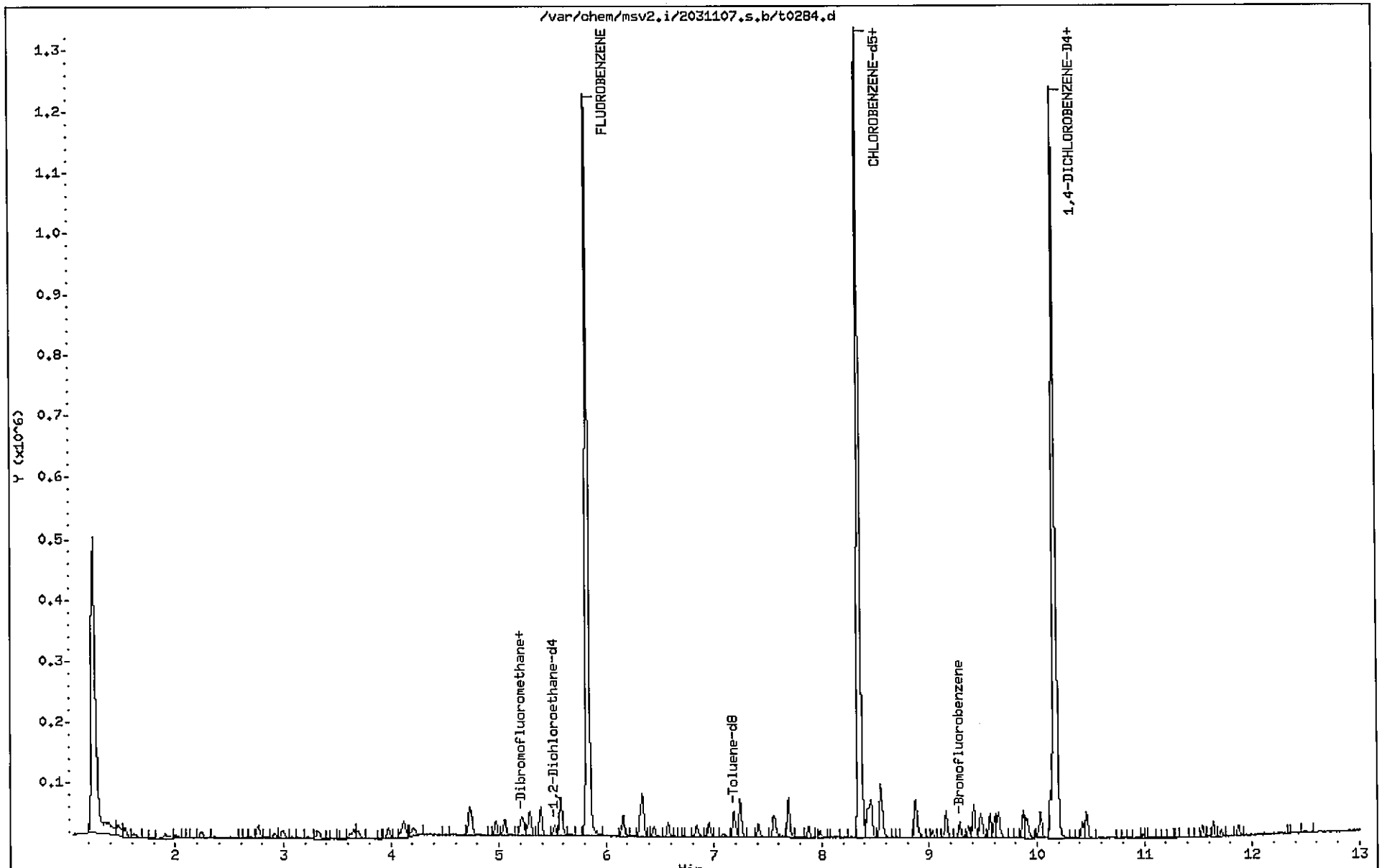
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/msv2.i/2031107.s.b/t0284.d
Date : 07-NOV-2003 11:08
Client ID: V2STD002
Sample Info: 1206*V2STD002*5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP
Column diameter: 0.53

000225



Data File: /var/chem/msv2.i/2031107.s.b/t0293.d
Report Date: 18-Nov-2003 08:25

Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: CH2M-btex.spk
Sublist File: 8260B.sub
Method File: /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Misc Info: MSV~3954~*1*RSP

Client SDG: 2031107.s
Fraction: VOA
Client Smp ID: V2STD050
Operator: RSP
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
22 MTBE	50.0	44.2	88.32	80-120
45 Benzene	50.0	45.9	91.78	80-120
59 Toluene +	50.0	45.8	91.54	80-120
73 Ethylbenzene +	50.0	47.5	94.94	80-120
74 p,m-Xylene	100	94.7	94.65	80-120
76 o-Xylene	50.0	46.6	93.12	80-120
M 109 TOTAL XYLENE	150	141	94.14	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 38 Dibromofluorometha	50.0	48.0	95.98	70-130
$ 44 1,2-Dichloroethane	50.0	48.5	97.08	76-128
$ 58 Toluene-d8	50.0	51.4	102.81	83-112
$ 81 Bromofluorobenzene	50.0	43.7	87.49	78-115

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031107.s.b/t0293.d
Lab Smp Id: ICV
Client Smp ID: V2STD050
Inj Date : 07-NOV-2003 15:38
Operator : RSP
Inst ID: msv2.i
Smp Info : ICV*V2STD050
Misc Info : MSV~3954~*1*RSP
Comment :
Method : /var/chem/msv2.i/2031107.s.b/8260Bw2.m
Meth Date : 08-Nov-2003 08:09 sab
Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10
Cal File: t0289.d
Als bottle: 12
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)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.390	1.387	(0.238)	284745	40.9872	41.0
23 Hexane	57	3.991	3.994	(0.683)	179194	33.4670	33.5
2 Chloromethane ++	50	1.542	1.539	(0.264)	254965	36.8518	36.9
3 Vinyl Chloride +	62	1.628	1.631	(0.279)	183761	38.7210	38.7
5 Bromomethane	94	1.918	1.915	(0.328)	129033	38.0722	38.1
6 Chloroethane	64	2.011	2.007	(0.344)	108747	38.0770	38.1
7 Trichlorofluoromethane	101	2.248	2.252	(0.385)	281638	43.2526	43.3
10 1,1-Dichloroethene +	96	2.770	2.767	(0.474)	153804	44.3917	44.4
11 1,1,2Trichlotrifluoroethane	101	2.783	2.780	(0.477)	192061	45.4316	45.4
12 Acetone	43	2.842	2.839	(0.487)	76475	91.7555	91.8(R)
13 Methyl Iodide	142	2.935	2.932	(0.503)	322548	40.6372	40.6
14 Carbon Disulfide	76	3.008	3.004	(0.515)	419153	32.3084	32.3(R)
18 Methylene Chloride	49	3.331	3.334	(0.570)	217430	44.2010	44.2
20 Acrylonitrile	53	3.628	3.631	(0.621)	195861	238.579	239(A)
21 trans-1,2-Dichloroethene	61	3.661	3.664	(0.627)	237660	45.6174	45.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
15	Methyl Acetate	43	3.239	3.235	(0.555)	134255	65.7221	65.7
22	MTBE	73	3.701	3.704	(0.634)	362177	44.1582	44.2
24	1,1-Dichloroethane ++	63	4.130	4.133	(0.707)	339751	36.4337	36.4
25	Vinyl Acetate	43	3.991	3.994	(0.683)	125267	32.8347	32.8(R)
30	2,2-Dichloropropane	77	4.744	4.740	(0.812)	458887	49.0700	49.1
31	cis-1,2-Dichloroethene	61	4.744	4.747	(0.812)	532949	47.2459	47.2
32	2-Butanone	43	4.783	4.787	(0.819)	161178	74.5468	74.5(R)
36	Bromochloromethane	128	4.982	4.978	(0.853)	179783	46.3282	46.3
37	Chloroform +	83	5.061	5.064	(0.867)	581000	46.9711	47.0
38	Dibromofluoromethane	111	5.213	5.216	(0.893)	363409	47.9901	48.0
39	1,1,1-Trichloroethane	97	5.239	5.242	(0.897)	460815	45.1489	45.1
42	1,1-Dichloropropene	75	5.397	5.401	(0.924)	433378	47.6604	47.7
43	Carbon Tetrachloride	117	5.404	5.401	(0.925)	429506	47.3943	47.4
44	1,2-Dichloroethane-d4	67	5.529	5.526	(0.947)	173178	48.5412	48.5
45	Benzene	78	5.582	5.586	(0.956)	1373020	45.8915	45.9
46	1,2-Dichloroethane	62	5.596	5.599	(0.958)	402753	46.8943	46.9
47	FLUOROBENZENE	96	5.840	5.843	(1.000)	1338195	50.0000	
48	Trichloroethene	130	6.170	6.167	(1.057)	369067	46.3508	46.4
49	Methyl Cyclohexane	83	6.342	6.338	(1.086)	476109	36.3539	36.4
50	1,2-Dichloropropane +	63	6.355	6.351	(1.088)	403770	48.7474	48.7
51	Dibromomethane	93	6.454	6.450	(1.105)	189335	47.1748	47.2
54	Bromodichloromethane	83	6.586	6.589	(1.128)	440003	50.9597	51.0
55	2-Chloroethyl vinyl ether	63	6.850	6.847	(1.173)	568006	45.6998	45.7
139	1 Bromo-2-chloroethane	144	6.856	6.853	(0.820)	44648	47.0501	47.1
56	cis-1,3-Dichloropropene	75	6.962	6.965	(1.192)	551619	50.3332	50.3
57	4-methyl-2-pentanone	43	7.094	7.091	(1.215)	240717	49.8607	49.9
58	Toluene-d8	98	7.193	7.196	(0.860)	1218068	51.4054	51.4
59	Toluene +	91	7.246	7.249	(0.867)	1459716	45.7697	45.8
60	trans-1,3-Dichloropropene	75	7.411	7.414	(0.886)	456134	48.3395	48.3
62	1,1,2-Trichloroethane	97	7.563	7.566	(0.904)	272663	48.7732	48.8
64	1,3-Dichloropropane	76	7.702	7.698	(0.921)	486692	48.1138	48.1
65	Tetrachloroethene	164	7.702	7.705	(0.921)	266335	43.7640	43.8
66	2-Hexanone	43	7.761	7.758	(0.928)	290751	79.6122	79.6(R)
68	Dibromochloromethane	129	7.893	7.890	(0.944)	318919	45.7427	45.7
69	1,2-Dibromoethane(EDB)	107	7.992	7.989	(0.956)	265366	46.6149	46.6
70	CHLOROBENZENE-d5	82	8.362	8.365	(1.000)	486433	50.0000	
71	Chlorobenzene ++	112	8.388	8.385	(1.003)	1055537	46.3332	46.3
72	1,1,1,2-Tetrachloroethane	133	8.441	8.444	(1.009)	336979	47.6955	47.7
73	Ethylbenzene +	106	8.467	8.464	(1.013)	524693	47.4685	47.5
74	p,m-Xylene	106	8.560	8.556	(1.024)	1297711	94.6545	94.7
76	o-Xylene	106	8.877	8.880	(1.062)	633343	46.5610	46.6
77	Styrene	104	8.883	8.887	(1.062)	1064638	44.3266	44.3
78	Bromoform ++	173	9.035	9.038	(1.081)	181792	45.5497	45.5
79	Isopropylbenzene	105	9.161	9.164	(1.096)	1540683	45.0459	45.0
81	Bromofluorobenzene	174	9.293	9.289	(0.913)	355814	43.7458	43.7
84	1,1,2,2-Tetrachloroethane++	83	9.378	9.375	(0.922)	296696	46.1315	46.1
85	trans-1,4-Dichloro-2-Butene	53	9.418	9.415	(0.925)	95289	57.7414	57.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)
86	1,2,3-Trichloropropane	75	9.418	9.421	(0.925)	394992	48.7404	48.7
87	Bromobenzene	77	9.425	9.421	(0.926)	744054	48.0056	48.0
75	Total 1,2-Dichloroethene	61				770609	92.8634	92.9
88	n-Propylbenzene	91	9.484	9.487	(0.932)	1838010	45.7698	45.8
89	2-Chlorotoluene	91	9.570	9.573	(0.940)	1087011	46.1918	46.2
90	1,3,5-Trimethylbenzene	105	9.616	9.619	(0.945)	1266654	46.1846	46.2
91	4-Chlorotoluene	91	9.649	9.652	(0.948)	1274948	46.6334	46.6
92	tert-butylbenzene	91	9.874	9.877	(0.970)	809971	47.2772	47.3(H)
93	1,2,4-Trimethylbenzene	105	9.907	9.910	(0.973)	1302933	48.2809	48.3
96	sec-Butylbenzene	105	10.039	10.035	(0.986)	1697126	45.0300	45.0
97	p-Isopropyltoluene	119	10.131	10.134	(0.995)	1479426	45.1364	45.1
98	1,3-Dichlorobenzene	146	10.138	10.134	(0.996)	752761	46.3366	46.3
99	1,4-DICHLOROBENZENE-D4	152	10.177	10.181	(1.000)	465146	50.0000	
100	1,4-Dichlorobenzene	146	10.197	10.200	(1.002)	763359	46.5698	46.6
101	n-Butylbenzene	91	10.428	10.431	(1.025)	1211099	51.4565	51.5
102	1,2-Dichlorobenzene	146	10.468	10.471	(1.029)	671026	47.2370	47.2
103	1,2-Dibromo-3-Chloropropane	157	10.996	10.993	(1.080)	42005	43.5691	43.6
105	1,2,4-Trichlorobenzene	180	11.557	11.554	(1.136)	344810	45.6633	45.7
106	Hexachlorobutadiene	225	11.656	11.653	(1.145)	159630	39.6966	39.7
107	Napthalene	128	11.722	11.719	(1.152)	522949	50.6609	50.7
108	1,2,3-Trichlorobenzene	180	11.887	11.884	(1.168)	297747	45.8727	45.9
109	TOTAL XYLENE	106				1931054	141.215	141
40	Cyclohexane	56	5.298	5.295	(0.907)	532943	36.4430	36.4

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/msv2.i/2031107.s.b/t0293.d

Date : 07-NOV-2003 15:38

Client ID: V2STD050

Sample Info: ICVXV2STD050

Purge Volume: 5.0

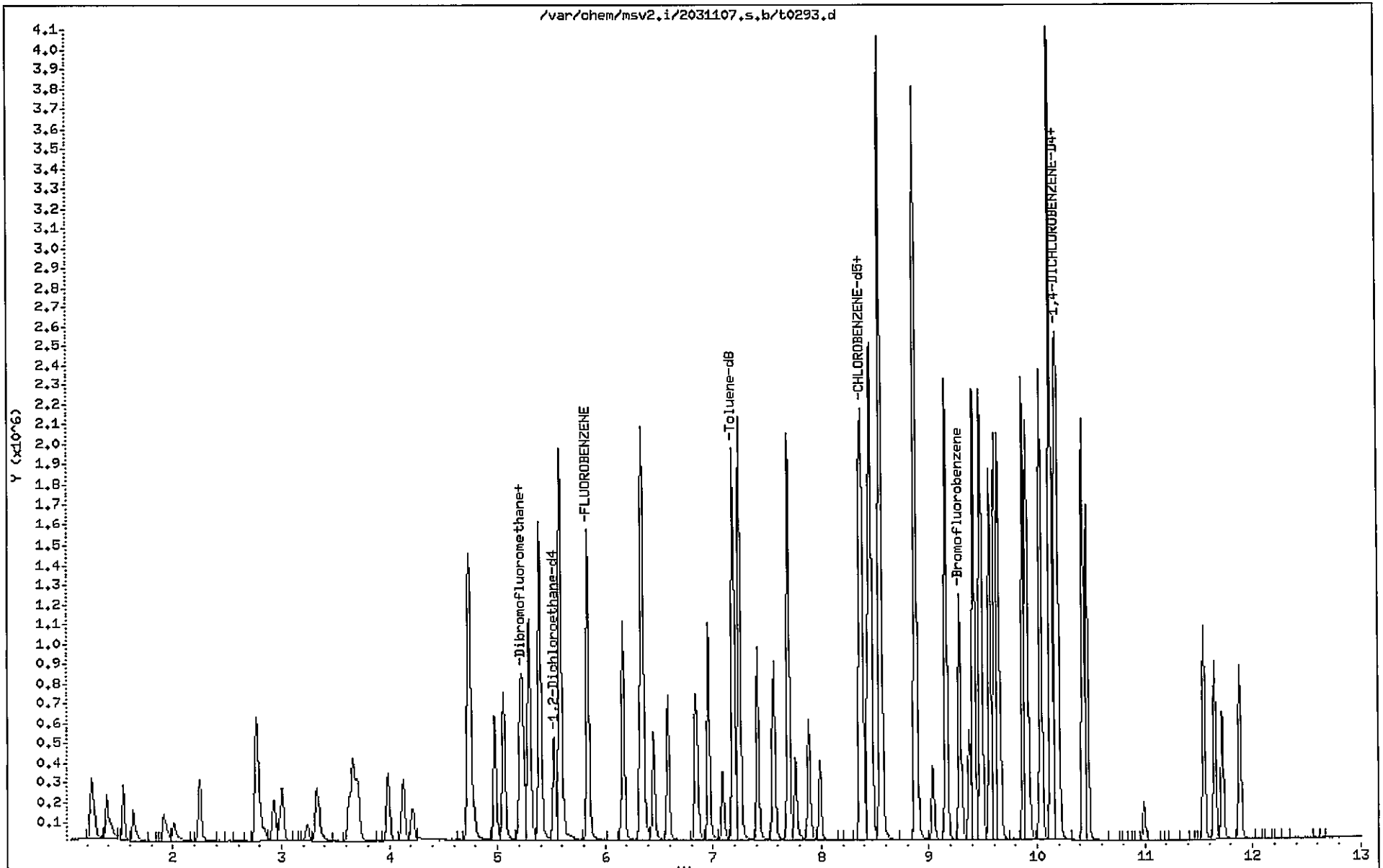
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RSP

Column diameter: 0.53

000330



Data File: /var/chem/msv2.i/2031110.s.b/t0397.d

Date : 10-NOV-2003 07:32

Client ID: V2BFB01

Instrument: msv2.i

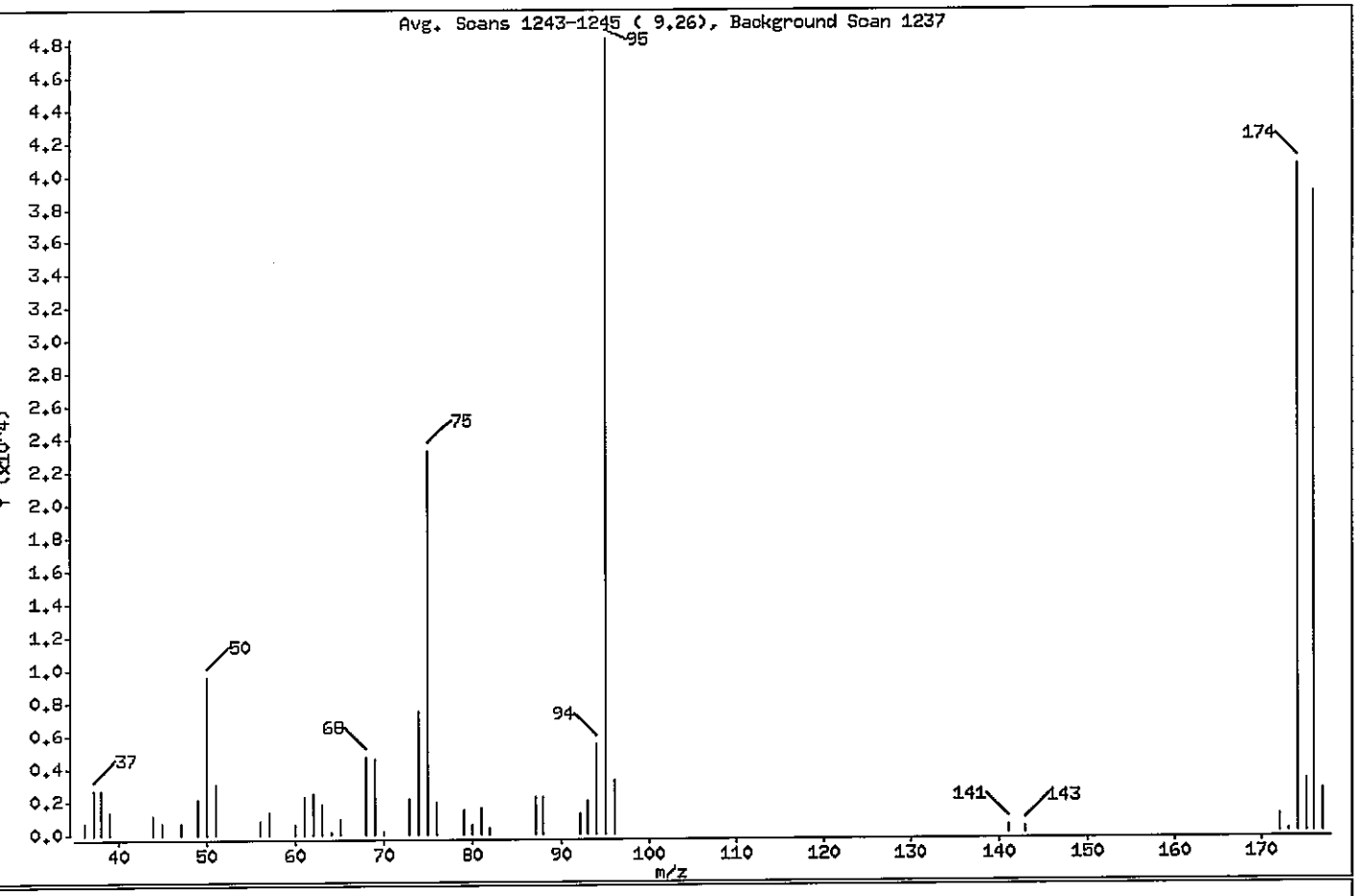
Sample Info: 1000*V2BFB01*5-5-5

Operator: CBL

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	19.86
75	30.00 - 60.00% of mass 95	48.09
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.28 (0.34)
174	50.00 - 99.99% of mass 95	83.87
175	5.00 - 9.00% of mass 174	6.47 (7.71)
176	95.00 - 101.00% of mass 174	80.37 (95.83)
177	5.00 - 9.00% of mass 176	5.36 (6.67)

Data File: /var/chem/msv2.i/2031110.s.b/t0397.d

Date : 10-NOV-2003 07:32

Client ID: V2BFB01

Instrument: msv2.i

Sample Info: 1000*V2BFB01*5-5-5

Operator: CBL

Column phase: DB-624-30M

Column diameter: 0.53

Data File: t0397.d

Spectrum: Avg. Scans 1243-1245 (9.26), Background Scan 1237

Location of Maximum: 95.00

Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	719	60.00	544	76.00	1930	141.00	400
37.00	2715	61.00	2256	79.00	1486	143.00	356
38.00	2649	62.00	2443	80.00	595	172.00	950
39.00	1302	63.00	1808	81.00	1522	173.00	137
44.00	1076	64.00	152	82.00	286	174.00	40504
45.00	626	65.00	853	87.00	2224	175.00	3123
47.00	714	68.00	4697	88.00	2177	176.00	38816
49.00	2144	69.00	4592	92.00	1197	177.00	2590
50.00	9592	70.00	140	93.00	1956		
51.00	3047	73.00	2135	94.00	5421		
56.00	813	74.00	7467	95.00	48296		
57.00	1310	75.00	23224	96.00	3206		

Data File: /var/chem/msv2.i/2031110.s.b/t0397.d

Date : 10-NOV-2003 07:32

Client ID: V2BFB01

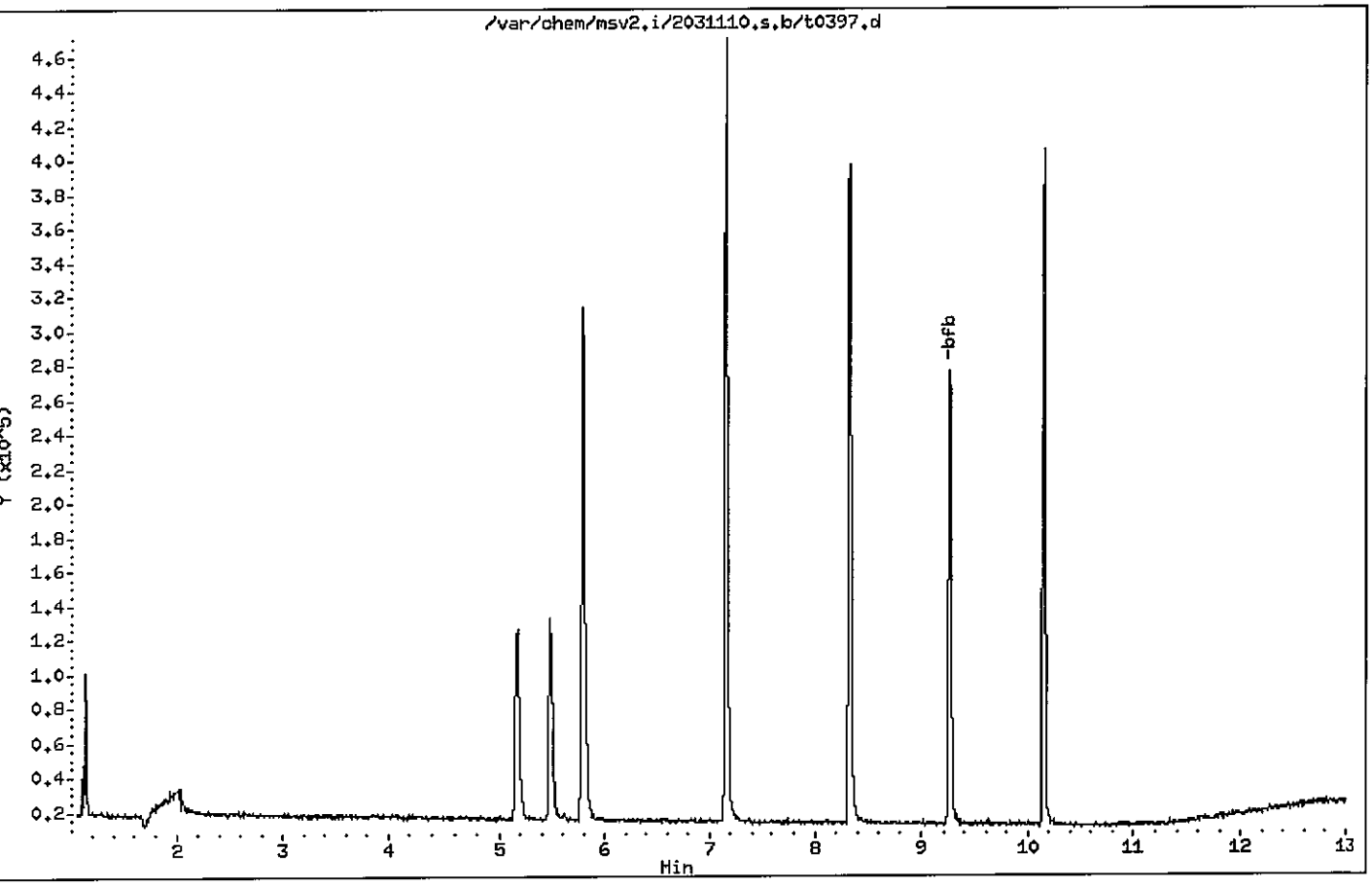
Instrument: msv2.i

Sample Info: 1000MV2BFB01M5-5-5

Operator: CBL

Column phase: DB-624-30M

Column diameter: 0.53



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0399.d
Lab Smp Id: 1400 Client Smp ID: V2STD050
Inj Date : 10-NOV-2003 08:29
Operator : HJL Inst ID: msv2.i
Smp Info : 1400*V2STD050*5-5-5
Misc Info : MSV~3969~*1*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:04 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 2 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
1 Dichlorodifluoromethane	85	1.381	1.381	(0.237)	314492	50.0000	40.3
23 Hexane	57	3.976	3.976	(0.683)	267784	50.0000	44.5
2 Chloromethane ++	50	1.533	1.533	(0.263)	337123	50.0000	43.4
3 Vinyl Chloride +	62	1.619	1.619	(0.278)	230976	50.0000	43.3
5 Bromomethane	94	1.909	1.909	(0.328)	169743	50.0000	44.6
6 Chloroethane	64	2.002	2.002	(0.344)	143060	50.0000	44.6
7 Trichlorofluoromethane	101	2.239	2.239	(0.384)	319396	50.0000	43.7
10 1,1-Dichloroethene +	96	2.754	2.754	(0.473)	170539	50.0000	43.8
11 1,1,2Trichlotrifluoroethane	101	2.767	2.767	(0.475)	213786	50.0000	45.0
12 Acetone	43	2.827	2.827	(0.485)	44208	50.0000	46.0
13 Methyl Iodide	142	2.919	2.919	(0.501)	438008	50.0000	49.1
14 Carbon Disulfide	76	2.992	2.992	(0.514)	654487	50.0000	44.9
18 Methylene Chloride	49	3.315	3.315	(0.569)	253775	50.0000	45.9
20 Acrylonitrile	53	3.612	3.612	(0.620)	201685	250.000	219(A)
21 trans-1,2-Dichloroethene	61	3.645	3.645	(0.626)	262039	50.0000	44.8

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
15 Methyl Acetate	43	3.216	3.216	(0.552)	102868	50.0000	44.8
22 MTBE	73	3.685	3.685	(0.633)	414228	50.0000	44.9
24 1,1-Dichloroethane ++	63	4.114	4.114	(0.706)	440184	50.0000	42.0
25 Vinyl Acetate	43	3.976	3.976	(0.683)	182182	50.0000	43.6
30 2,2-Dichloropropane	77	4.728	4.728	(0.812)	477540	50.0000	45.4
31 cis-1,2-Dichloroethene	61	4.728	4.728	(0.812)	576163	50.0000	45.5
32 2-Butanone	43	4.774	4.774	(0.820)	109182	50.0000	44.9
36 Bromochloromethane	128	4.966	4.966	(0.853)	197483	50.0000	45.3
37 Chloroform +	83	5.052	5.052	(0.867)	632393	50.0000	45.5
38 Dibromofluoromethane	111	5.197	5.197	(0.892)	408607	50.0000	48.0
39 1,1,1-Trichloroethane	97	5.223	5.223	(0.897)	513728	50.0000	44.8
42 1,1-Dichloropropene	75	5.382	5.382	(0.924)	469625	50.0000	46.0
43 Carbon Tetrachloride	117	5.388	5.388	(0.925)	456122	50.0000	44.8
44 1,2-Dichloroethane-d4	67	5.514	5.514	(0.947)	197246	50.0000	49.2
45 Benzene	78	5.573	5.573	(0.957)	1567199	50.0000	46.6
46 1,2-Dichloroethane	62	5.580	5.580	(0.958)	444376	50.0000	46.0
47 FLUOROBENZENE	96	5.824	5.824	(1.000)	1503731	50.0000	
48 Trichloroethene	130	6.154	6.154	(1.057)	402793	50.0000	45.0
49 Methyl Cyclohexane	83	6.326	6.326	(1.086)	676975	50.0000	44.8
50 1,2-Dichloropropane +	63	6.339	6.339	(1.088)	436599	50.0000	46.9
51 Dibromomethane	93	6.438	6.438	(1.105)	208174	50.0000	46.2
54 Bromodichloromethane	83	6.570	6.570	(1.128)	445175	50.0000	45.9
55 2-Chloroethyl vinyl ether	63	6.834	6.834	(1.173)	675020	50.0000	48.3
139 1 Bromo-2-chloroethane	144	6.841	6.841	(0.820)	57220	50.0000	50.9
56 cis-1,3-Dichloropropene	75	6.946	6.946	(1.193)	577833	50.0000	46.9
57 4-methyl-2-pentanone	43	7.079	7.079	(1.215)	239732	50.0000	44.9
58 Toluene-d8	98	7.178	7.178	(0.860)	1391277	50.0000	51.3
59 Toluene +	91	7.230	7.230	(0.866)	1686621	50.0000	46.2
60 trans-1,3-Dichloropropene	75	7.395	7.395	(0.886)	499728	50.0000	46.3
62 1,1,2-Trichloroethane	97	7.547	7.547	(0.904)	298137	50.0000	46.6
64 1,3-Dichloropropane	76	7.686	7.686	(0.921)	541860	50.0000	46.8
65 Tetrachloroethene	164	7.692	7.692	(0.922)	321825	50.0000	46.2
66 2-Hexanone	43	7.752	7.752	(0.929)	169103	50.0000	43.9
68 Dibromochloromethane	129	7.877	7.877	(0.944)	370954	50.0000	46.5
69 1,2-Dibromoethane(EDB)	107	7.976	7.976	(0.956)	302952	50.0000	46.5
70 CHLOROBENZENE-d5	82	8.346	8.346	(1.000)	556865	50.0000	
71 Chlorobenzene ++	112	8.372	8.372	(1.003)	1182950	50.0000	45.4
72 1,1,1,2-Tetrachloroethane	133	8.425	8.425	(1.009)	378197	50.0000	46.8
73 Ethylbenzene +	106	8.452	8.452	(1.013)	598260	50.0000	47.3
74 p,m-Xylene	106	8.544	8.544	(1.024)	1466912	100.000	93.5
76 o-Xylene	106	8.861	8.861	(1.062)	694541	50.0000	44.7
77 Styrene	104	8.868	8.868	(1.062)	1240360	50.0000	45.0
78 Bromoform ++	173	9.019	9.019	(1.081)	218610	50.0000	47.8
79 Isopropylbenzene	105	9.145	9.145	(1.096)	1745662	50.0000	44.6
81 Bromofluorobenzene	174	9.277	9.277	(0.912)	421082	50.0000	44.5
84 1,1,2,2-Tetrachloroethane++	83	9.363	9.363	(0.921)	342194	50.0000	45.7
85 trans-1,4-Dichloro-2-Butene	53	9.402	9.402	(0.925)	91136	50.0000	47.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb)	AMOUNTS ON-COL (ppb)
86	1,2,3-Trichloropropane	75	9.402	9.402	(0.925)	418070	50.0000	44.3
87	Bromobenzene	77	9.402	9.402	(0.925)	805951	50.0000	44.7
75	Total 1,2-Dichloroethene	61				838202	100.000	90.2
88	n-Propylbenzene	91	9.468	9.468	(0.931)	2129984	50.0000	45.5
89	2-Chlorotoluene	91	9.554	9.554	(0.940)	1328377	50.0000	48.5
90	1,3,5-Trimethylbenzene	105	9.600	9.600	(0.944)	1457712	50.0000	45.6
91	4-Chlorotoluene	91	9.633	9.633	(0.947)	1391663	50.0000	43.7
92	tert-butylbenzene	91	9.858	9.858	(0.969)	909252	50.0000	45.6
93	1,2,4-Trimethylbenzene	105	9.898	9.898	(0.973)	1397284	50.0000	44.5
96	sec-Butylbenzene	105	10.023	10.023	(0.986)	1876616	50.0000	43.0
97	p-Isopropyltoluene	119	10.122	10.122	(0.995)	1594742	50.0000	42.1
98	1,3-Dichlorobenzene	146	10.122	10.122	(0.995)	849205	50.0000	44.9
99	1,4-DICHLOROBENZENE-D4	152	10.168	10.168	(1.000)	541655	50.0000	
100	1,4-Dichlorobenzene	146	10.181	10.181	(1.001)	843032	50.0000	44.2
101	n-Butylbenzene	91	10.412	10.412	(1.024)	1189955	50.0000	43.4
102	1,2-Dichlorobenzene	146	10.452	10.452	(1.028)	761436	50.0000	46.0
103	1,2-Dibromo-3-Chloropropane	157	10.980	10.980	(1.080)	51767	50.0000	46.1
105	1,2,4-Trichlorobenzene	180	11.535	11.535	(1.134)	396533	50.0000	45.2
106	Hexachlorobutadiene	225	11.634	11.634	(1.144)	227779	50.0000	48.6
107	Napthalene	128	11.706	11.706	(1.151)	611413	50.0000	50.9
108	1,2,3-Trichlorobenzene	180	11.865	11.865	(1.167)	351141	50.0000	46.4
109	TOTAL XYLENE	106				2161453	150.000	138
40	Cyclohexane	56	5.283	5.283	(0.907)	714755	50.0000	42.9

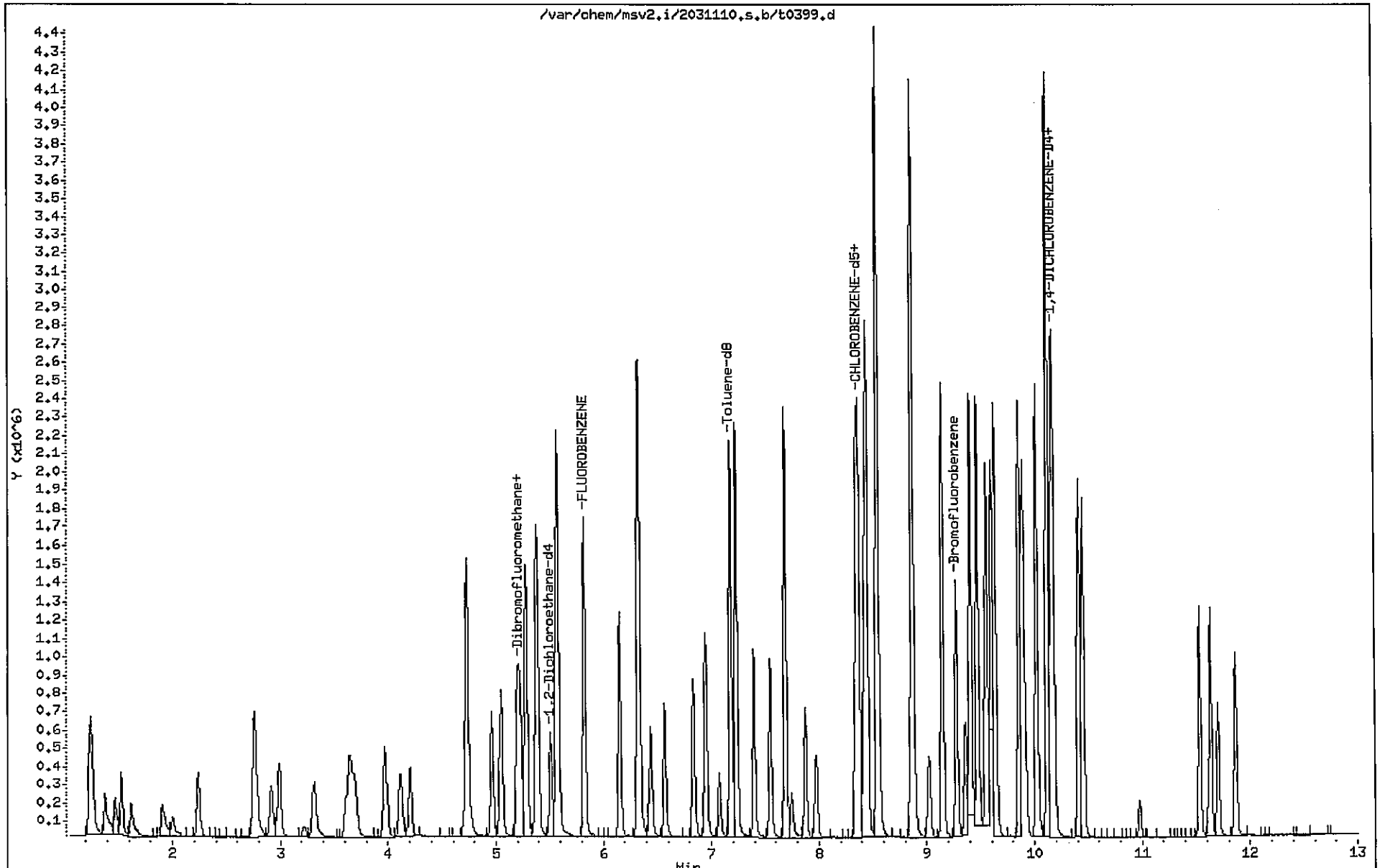
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/msv2.i/2031110.s.b/t0399.d
Date : 10-NOV-2003 08:29
Client ID: V2STD050
Sample Info: 1400MV2STD050M5-5-5
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i
Operator: HJL
Column diameter: 0.53

000037



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6823.d
Lab Smp Id: 129292 Client Smp ID: MB for HBN 265084 [
Inj Date : 07-NOV-2003 18:27
Operator : KRV Inst ID: msv0.i
Smp Info : 129292*MB for HBN 265084 [MSV/3953]
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 07-Nov-2003 17:22 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BTEXS+MTBE+LCS.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
25 Dibromofluoromethane	111	6.114	6.124	(0.922)	155088	53.8651	53.9	1787
32 1,2-Dichloroethane-d4	67	6.410	6.426	(0.966)	83395	51.7508	51.8	9541
35 FLUOROBENZENE	96	6.634	6.644	(1.000)	559685	50.0000		9451
46 Toluene-d8	98	7.812	7.822	(0.879)	540971	49.1652	49.2	8864
47 Toluene +	91	7.865	7.868	(0.884)	24708	1.71191	1.71	8981(H)
58 CHLOROBENZENE-d5	82	8.892	8.902	(1.000)	255176	50.0000		9205
67 Bromofluorobenzene	174	9.702	9.705	(1.091)	152054	47.9230	47.9	8311
81 1,4-DICHLOROBENZENE-D4	152	10.472	10.482	(1.000)	191050	50.0000		9205

QC Flag Legend

H - Operator selected an alternate compound hit.

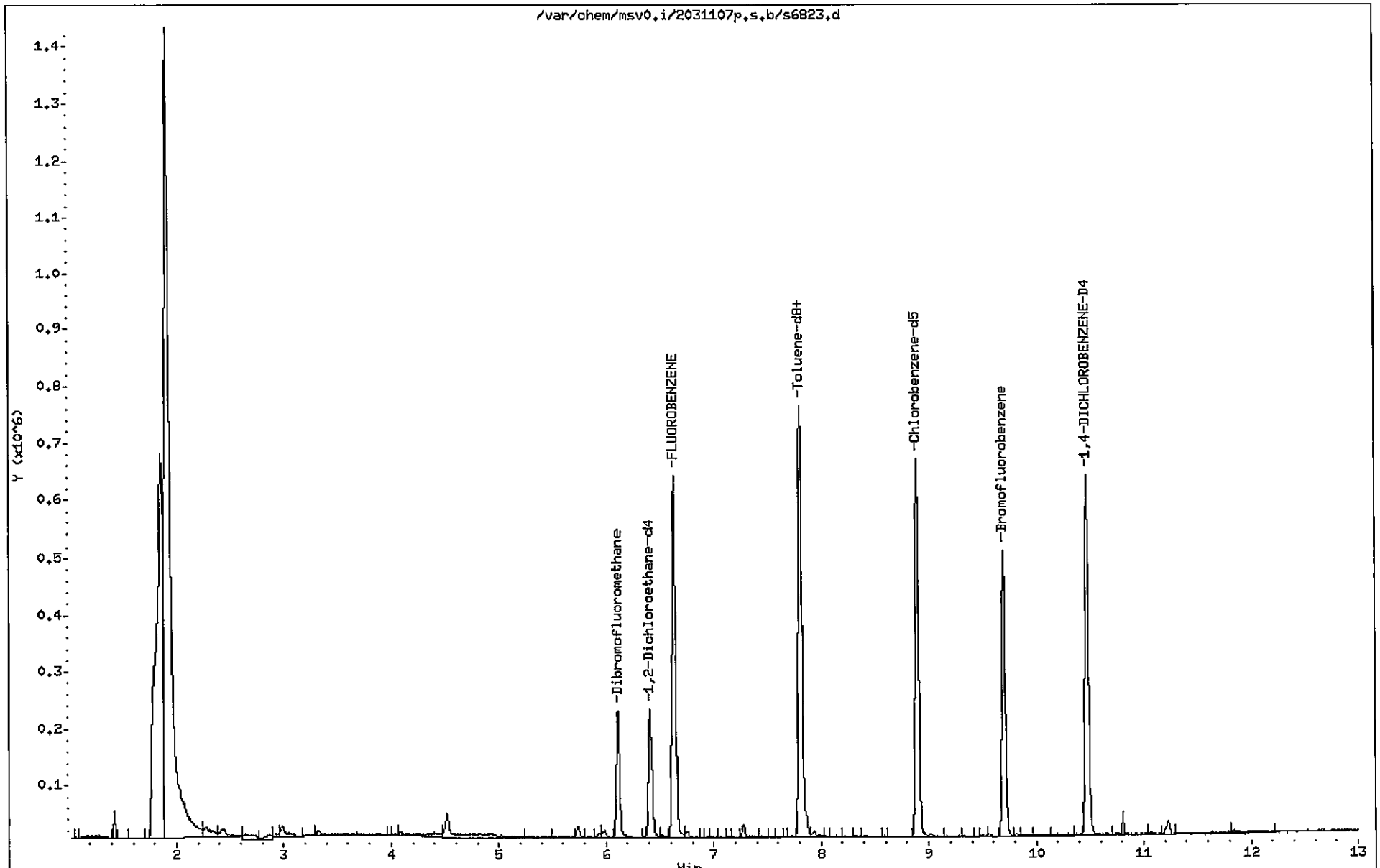
Data File: /var/chem/msv0.i/2031107p.s.b/s6823.d
Date : 07-NOV-2003 18:27
Client ID: MB for HBN 265084 [
Sample Info: 129292MB for HBN 265084 [MSV/3953]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000339



Data File: /var/chem/msv0.i/2031107p.s.b/s6823.d

Date : 07-NOV-2003 18:27

Client ID: MB for HBN 265084 [

Instrument: msv0.i

Sample Info: 129292MB for HBN 265084 [MSV/3953]

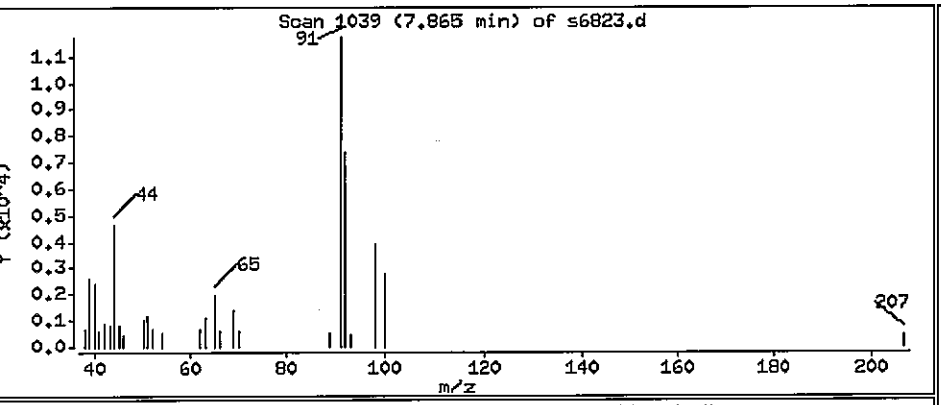
Operator: KRV

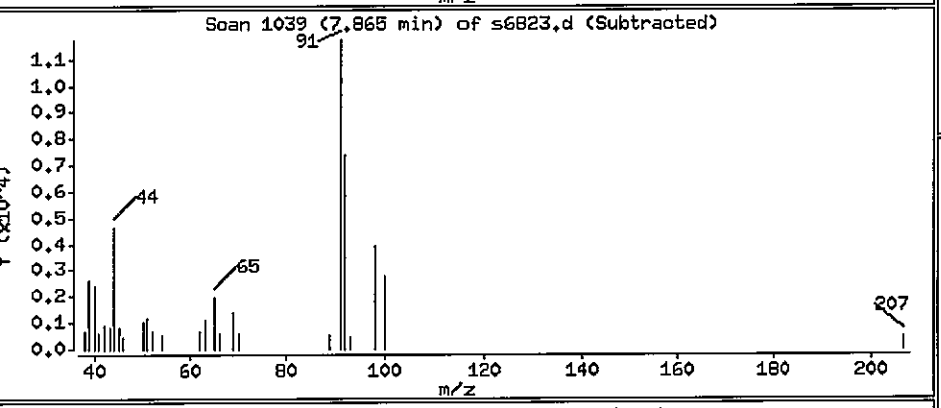
Column phase: DB-624-30M

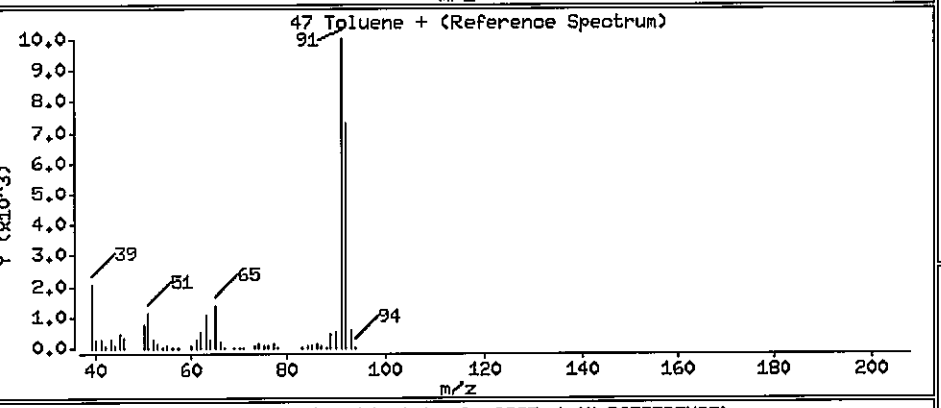
Column diameter: 0.53

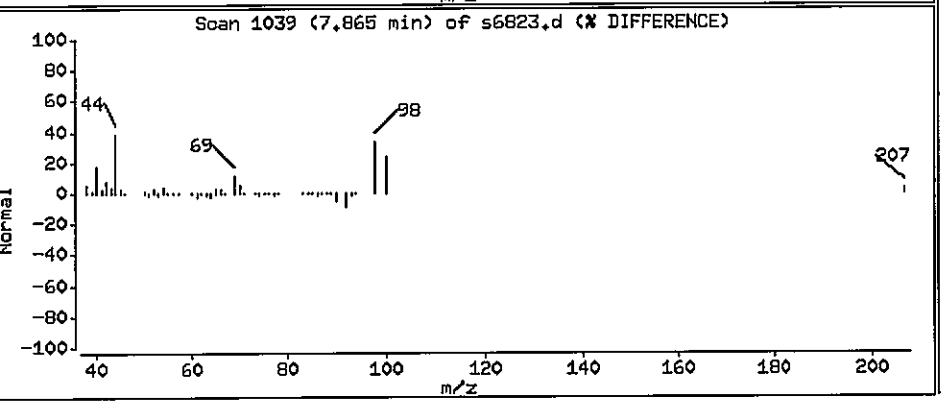
47 Toluene +

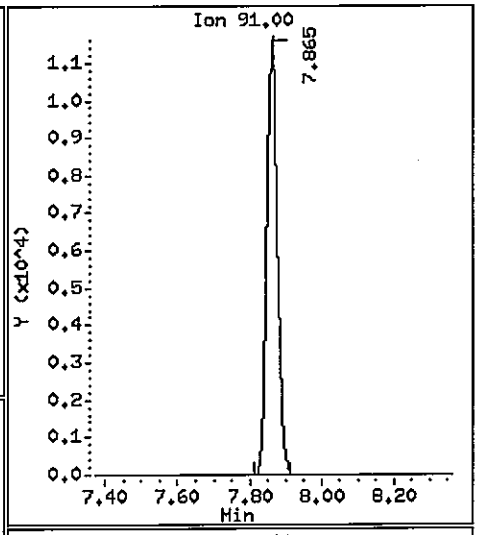
Concentration: 1.71 ug/Kg

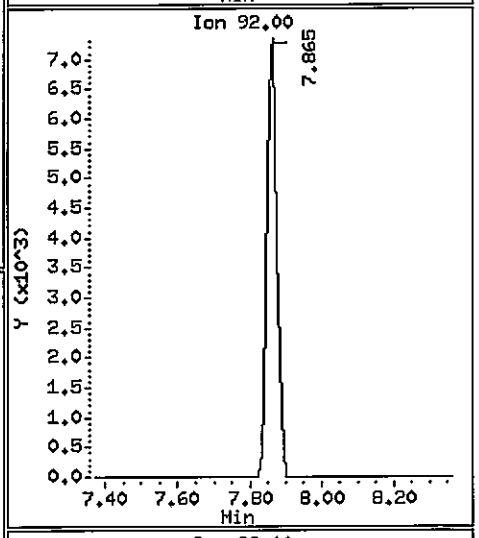


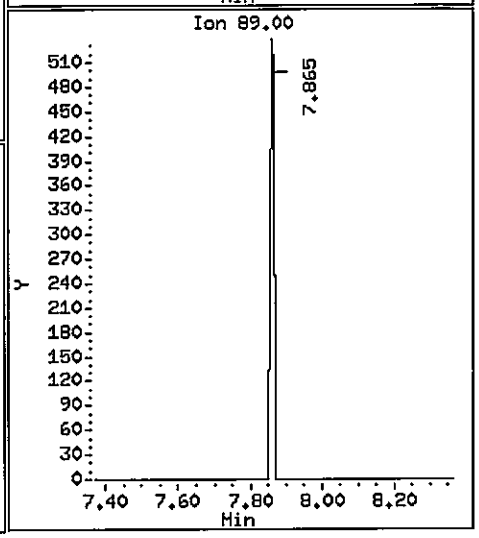












Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6856.d
Lab Smp Id: 129315 Client Smp ID: MB for HBN 265098 [
Inj Date : 08-NOV-2003 11:26
Operator : KRV Inst ID: msv0.i
Smp Info : 129315*MB for HBN 265098 [MSV/3957]
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 08-Nov-2003 12:05 rjo Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 3 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
25 Dibromofluoromethane	111	6.114	6.118	(0.922)	152991	51.9632	52.0	862
32 1,2-Dichloroethane-d4	67	6.417	6.414	(0.967)	77417	46.9800	47.0	9561
35 FLUOROBENZENE	96	6.635	6.638	(1.000)	572326	50.0000		9571
46 Toluene-d8	98	7.813	7.810	(0.879)	549218	50.6217	50.6	8683
58 Chlorobenzene-d5	82	8.893	8.889	(1.000)	251612	50.0000		8827
67 Bromofluorobenzene	174	9.696	9.693	(1.090)	156090	49.8919	49.9	8505
81 1,4-DICHLOROBENZENE-D4	152	10.466	10.463	(1.000)	191199	50.0000		9518

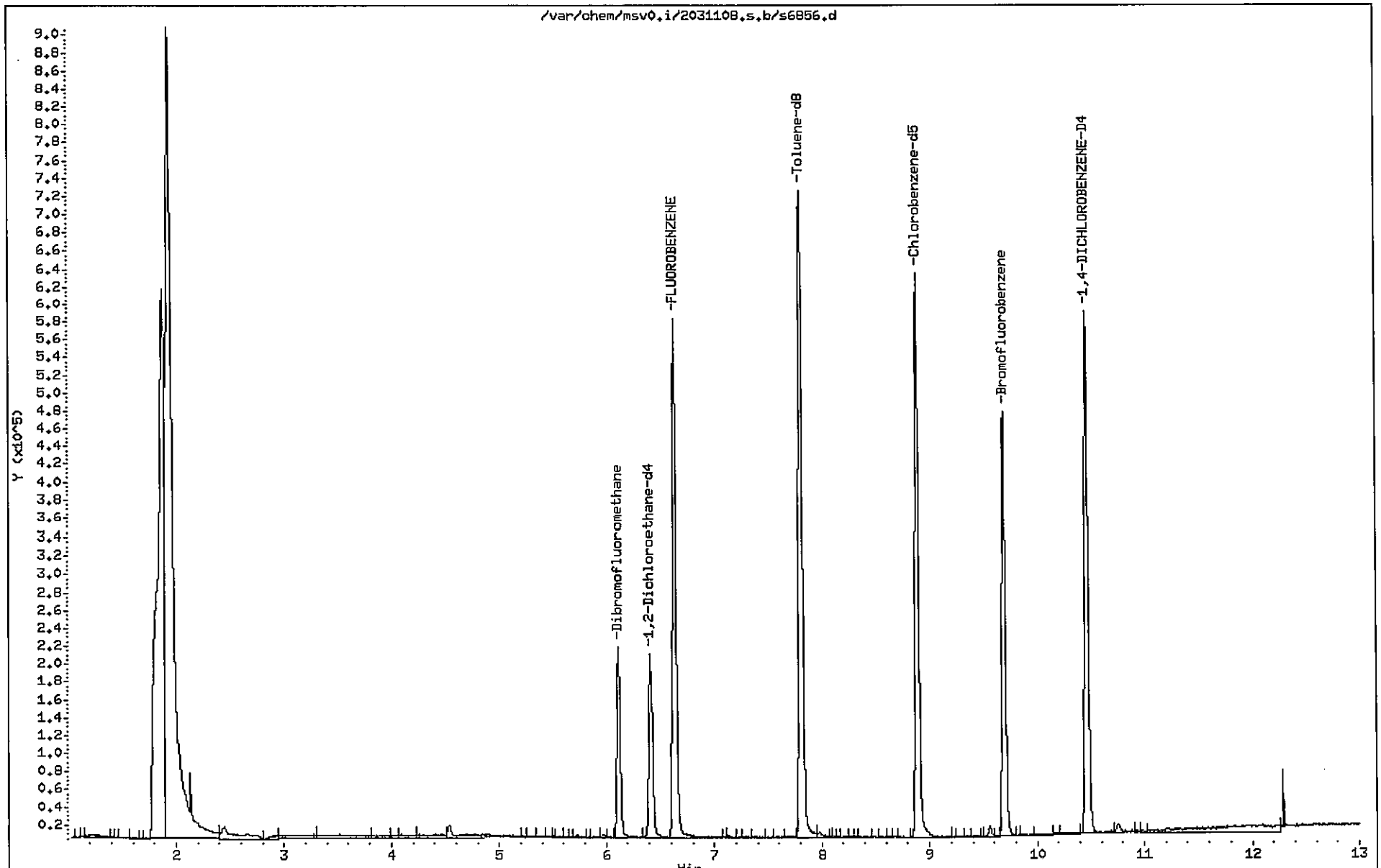
Data File: /var/chem/msv0.i/2031108.s.b/s6856.d
Date : 08-NOV-2003 11:26
Client ID: MB for HBN 265098 [
Sample Info: 129315MMB for HBN 265098 [MSV/3957]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000342



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4911.d
Lab Smp Id: 129375 Client Smp ID: MB for HBN 265120 [
Inj Date : 09-NOV-2003 10:54
Operator : RSP Inst ID: msv1.i
Smp Info : 129375*MB for HBN 265120 [MSV/3964]
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 14-Nov-2003 09:48 rsp Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50

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

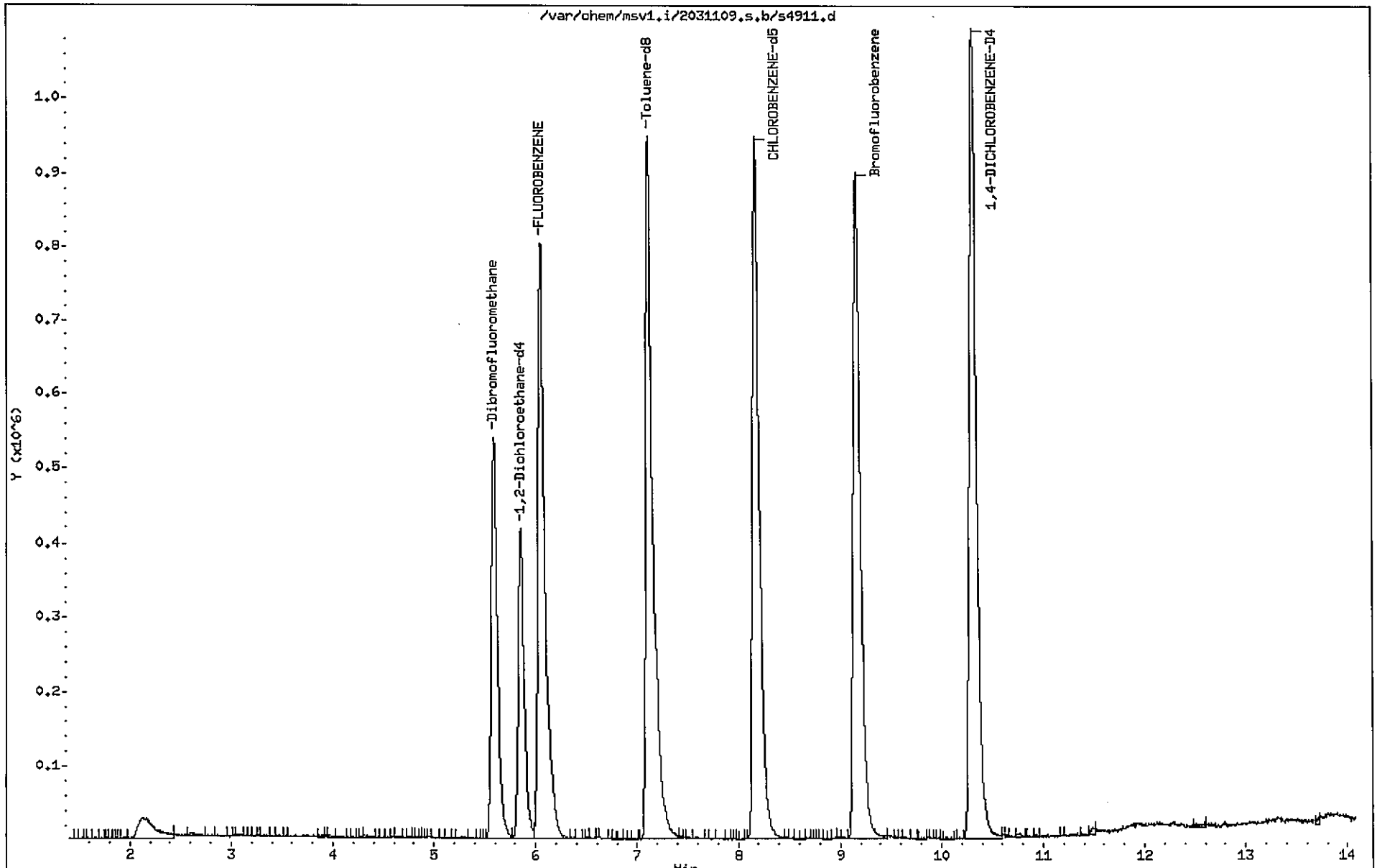
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
36 Dibromofluoromethane	111	5.594	5.536	(0.923)	709555	51.1866	51.2	214
43 1,2-Dichloroethane-d4	67	5.851	5.794	(0.966)	301463	50.4743	50.5	
47 FLUOROBENZENE	96	6.058	6.000	(1.000)	1684896	50.0000		
59 Toluene-d8	98	7.112	7.049	(0.870)	1638916	52.4395	52.4	
70 CHLOROBENZENE-d5	82	8.172	8.092	(1.000)	884928	50.0000		
79 Bromofluorobenzene	174	9.170	9.089	(1.122)	653790	56.6399	56.6	
96 1,4-DICHLOROBENZENE-D4	152	10.322	10.224	(1.000)	810788	50.0000		

Data File: /var/chem/msv1.i/2031109.s.b/s4911.d
Date : 09-NOV-2003 10:54
Client ID: MB for HBN 265120 [
Sample Info: 129375*MB for HBN 265120 [MSV/3964]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000344



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0403.d
Lab Smp Id: 129602 Client Smp ID: MB for HBN 265163 [
Inj Date : 10-NOV-2003 10:24
Operator : RJO Inst ID: msv2.i
Smp Info : 129602*MB for HBN 265163 [MSV/3969]
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 6 QC Sample: BLANK
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)

Cpnd Variable Local Compound Variable

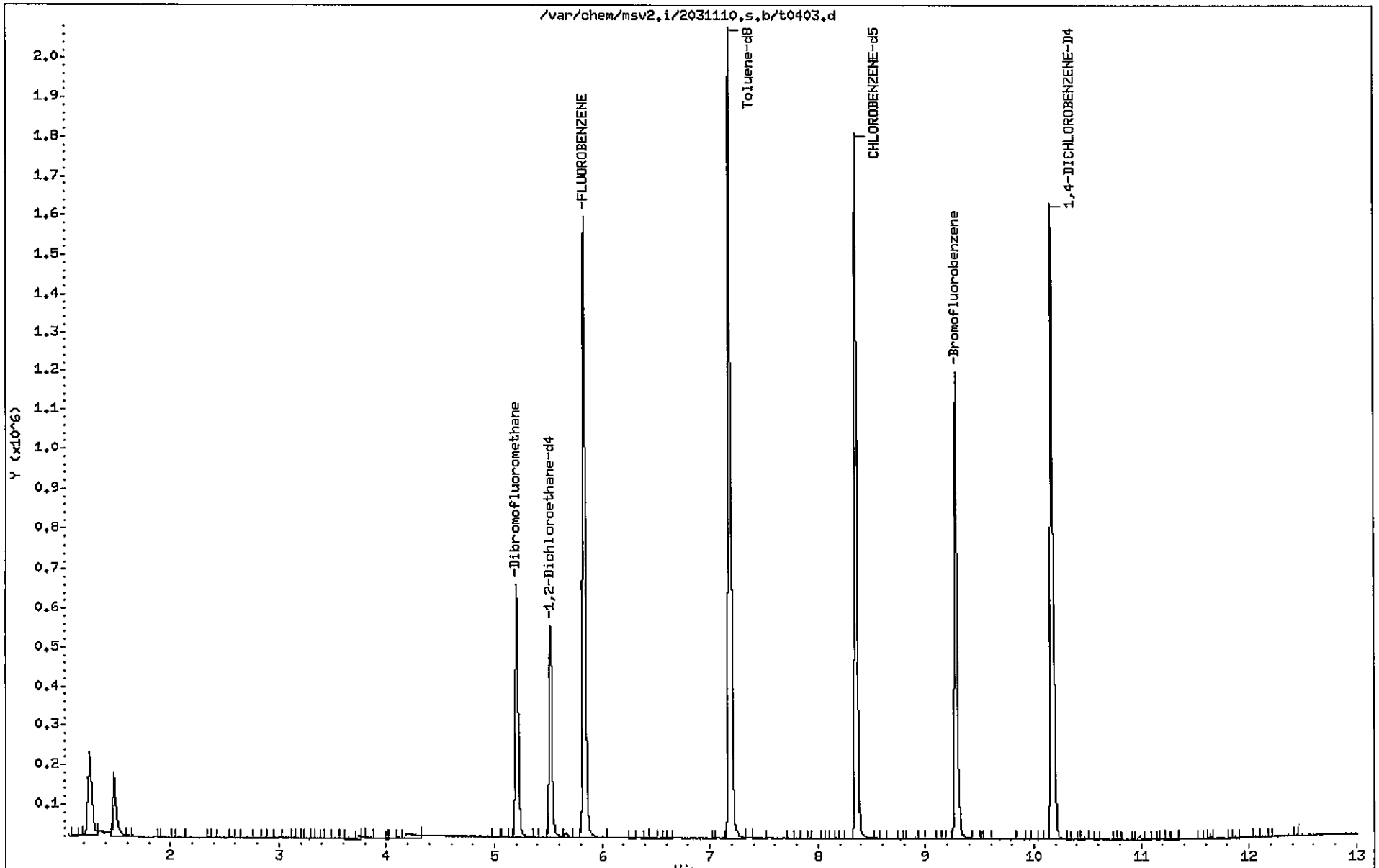
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
38 Dibromofluoromethane	111	5.207	5.197	(0.892)	399178	50.8864	2540
44 1,2-Dichloroethane-d4	67	5.517	5.514	(0.946)	182111	49.2758	2460
47 FLUOROBENZENE	96	5.834	5.824	(1.000)	1386246	50.0000	
58 Toluene-d8	98	7.188	7.178	(0.860)	1253605	49.6982	2480
70 CHLOROBENZENE-d5	82	8.356	8.346	(1.000)	517822	50.0000	
81 Bromofluorobenzene	174	9.287	9.277	(0.913)	358567	45.9032	2300
99 1,4-DICHLOROBENZENE-D4	152	10.172	10.168	(1.000)	446714	50.0000	

Data File: /var/chem/msv2.i/2031110.s.b/t0403.d
Date : 10-NOV-2003 10:24
Client ID: MB for HBN 265163 [
Sample Info: 129602MB for HBN 265163 [MSV/3969]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i

Operator: RJO
Column diameter: 0.53

000346



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6820.d
Lab Smp Id: 129291 Client Smp ID: LCS for HBN 265084
Inj Date : 07-NOV-2003 17:20
Operator : KRV Inst ID: msv0.i
Smp Info : 129291*LCS for HBN 265084 [MSV/3953]
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:25 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 1 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	2.115	2.128	(0.319)	82231	25.6281	25.6	627
2 Chloromethane ++	50	2.346	2.365	(0.353)	143100	31.8896	31.9	6237
3 Vinyl Chloride +	62	2.484	2.490	(0.374)	111278	26.5419	26.5	4514
4 Bromomethane	94	2.866	2.911	(0.432)	14272	6.67417	6.67	7009(R)
5 Chloroethane	64	2.971	3.049	(0.448)	13954	3.75753	3.76	3813(R)
6 Trichlorofluoromethane	101	3.274	3.332	(0.493)	88667	23.8272	23.8	8116
7 Acrolein	56	3.906	3.925	(0.588)	72350	145.787	146	3544
9 1,1,2Trichlotrifluoroethane	101	3.899	3.931	(0.587)	77576	26.4648	26.5	4775
8 1,1-Dichloroethene +	96	3.939	3.971	(0.593)	63936	25.0374	25.0	8751
10 Acetone	43	4.084	4.096	(0.615)	46343	23.5906	23.6	6493
11 Methyl Iodide	142	4.136	4.162	(0.623)	52487	22.3721	22.4	9250
12 Carbon Disulfide	76	4.176	4.201	(0.629)	295736	26.7283	26.7	8809
106 Methyl Acetate	43	4.400	4.412	(0.663)	83535	30.1738	30.2	1746

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.525	4.544	(0.682)	152660	27.4219	27.4	9409
14 Acrylonitrile	53	4.841	4.846	(0.729)	179893	149.748	150	6875
15 trans-1,2-Dichloroethene	61	4.749	4.768	(0.715)	125573	27.0363	27.0	8849
16 MTBE	73	4.735	4.748	(0.713)	233408	27.7699	27.8	4250
17 Hexane	57	4.939	4.958	(0.744)	163347	27.9435	27.9	5105
19 Vinyl Acetate	43	4.939	4.958	(0.744)	119764	27.3045	27.3	
18 1,1-Dichloroethane ++	63	5.196	5.209	(0.783)	175416	26.5611	26.6	6261
22 2-Butanone	43	5.743	5.748	(0.865)	81465	32.8293	32.8	
21 cis-1,2-Dichloroethene	61	5.716	5.729	(0.861)	161165	26.8508	26.9	8240
20 2,2-Dichloropropane	77	5.697	5.709	(0.858)	122950	26.3646	26.4	8671
23 Bromochloromethane	128	5.934	5.939	(0.894)	37556	26.1304	26.1	9044
24 Chloroform +	83	5.980	5.985	(0.901)	150191	25.6222	25.6	9262
25 Dibromofluoromethane	111	6.118	6.124	(0.922)	166074	53.6456	53.6	9210
26 1,1,1-Trichloroethane	97	6.111	6.124	(0.921)	119374	26.1789	26.2	8795
105 Cyclohexane	56	6.105	6.117	(0.920)	196177	26.1483	26.1	9212
27 1,1-Dichloropropene	75	6.243	6.249	(0.940)	115091	26.0923	26.1	6764
28 Carbon Tetrachloride	117	6.217	6.229	(0.937)	86798	25.0062	25.0	8769
32 1,2-Dichloroethane-d4	67	6.414	6.426	(0.966)	90423	52.1866	52.2	8005
33 Benzene	78	6.407	6.420	(0.965)	347350	26.2948	26.3	8560
34 1,2-Dichloroethane	62	6.473	6.486	(0.975)	118342	26.3072	26.3	6411
35 FLUOROBENZENE	96	6.638	6.644	(1.000)	601784	50.0000		9358
36 Trichloroethene	130	6.908	6.914	(1.041)	78037	25.9988	26.0	9150
40 Methyl cyclohexane	83	7.013	7.019	(1.057)	150314	26.4666	26.5	5714
37 1,2-Dichloropropane +	63	7.118	7.131	(1.072)	99685	26.2268	26.2	8276
31 Total 1,2-Dichloroethene	61				286738	53.8635	53.9	0
38 Dibromomethane	93	7.217	7.223	(1.087)	47156	26.5450	26.5	8682
39 Bromodichloromethane	83	7.316	7.315	(1.102)	104650	26.3622	26.4	9114
41 2-Chloroethyl vinyl ether	63	7.507	7.513	(1.131)	42029	28.2021	28.2	6768
42 1-Bromo-2-chloroethane	144	7.579	7.585	(1.142)	10719	27.0000	27.0	1355
44 cis-1,3-Dichloropropene	75	7.645	7.644	(1.152)	142981	26.2560	26.3	
45 4-methyl-2-pentanone	43	7.731	7.730	(1.165)	116707	27.3522	27.4	
46 Toluene-d8	98	7.816	7.822	(0.879)	569109	49.0920	49.1	8823
47 Toluene +	91	7.862	7.868	(0.884)	352889	23.2066	23.2	9302
51 trans-1,3-Dichloropropene	75	8.053	8.059	(0.905)	131728	23.3468	23.3	
52 1,1,2-Trichloroethane	97	8.198	8.204	(0.922)	63068	22.8142	22.8	8369
53 1,3-Dichloropropane	76	8.330	8.335	(0.936)	129025	23.3411	23.3	8548
54 Tetrachloroethene	164	8.257	8.263	(0.928)	56049	22.5829	22.6	5618
55 2-Hexanone	43	8.330	8.329	(0.936)	101430	25.4283	25.4	5380
56 Dibromochloromethane	129	8.488	8.487	(0.954)	70347	22.7935	22.8	8902
57 1,2-Dibromoethane(EDB)	107	8.600	8.605	(0.967)	64325	23.1081	23.1	5533
58 Chlorobenzene-d5	82	8.896	8.902	(1.000)	268849	50.0000		9194
59 Chlorobenzene ++	112	8.916	8.921	(1.002)	218316	22.9016	22.9	8167
60 1,1,1,2-Tetrachloroethane	133	8.968	8.974	(1.008)	65271	22.7653	22.8	8881
61 Ethylbenzene +	106	8.949	8.954	(1.006)	114013	22.6050	22.6	9293
62 p,m-Xylene	106	9.028	9.033	(1.015)	299806	46.3666	46.4	9364
63 o-Xylene	106	9.317	9.316	(1.047)	142408	23.1272	23.1	
64 Styrene	104	9.330	9.330	(1.049)	256319	22.8967	22.9	8768

ompounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.508	9.507	(1.069)	42526	22.9130	22.9	8257
66 Isopropylbenzene	105	9.548	9.547	(1.073)	356746	22.7994	22.8	9289
67 Bromofluorobenzene	174	9.706	9.705	(1.091)	161595	48.3399	48.3	8349
68 1,1,2,2-Tetrachloroethane++	83	9.785	9.790	(0.933)	83049	23.5160	23.5	9033
69 trans-1,4-Dichloro-2-Butene	53	9.929	9.935	(0.947)	13569	23.6315	23.6	4535
70 1,2,3-Trichloropropane	75	9.837	9.836	(0.938)	113699	24.0440	24.0	6662
71 Bromobenzene	77	9.824	9.830	(0.937)	207824	23.2547	23.3	6802
72 n-Propylbenzene	91	9.824	9.830	(0.937)	474806	24.3918	24.4	7336
73 2-Chlorotoluene	91	9.929	9.935	(0.947)	308022	23.6168	23.6	8824(H)
74 1,3,5-Trimethylbenzene	105	9.936	9.935	(0.948)	306811	22.8425	22.8	
75 4-Chlorotoluene	91	10.002	10.008	(0.954)	296790	23.4843	23.5	8669
76 tert-butylbenzene	91	10.160	10.159	(0.969)	215671	23.1816	23.2	9177
77 1,2,4-Trimethylbenzene	105	10.199	10.198	(0.973)	289880	23.0309	23.0	
78 sec-Butylbenzene	105	10.305	10.304	(0.983)	399338	23.1557	23.2	
79 p-Isopropyltoluene	119	10.384	10.383	(0.991)	302634	23.2190	23.2	9080
80 1,3-Dichlorobenzene	146	10.436	10.442	(0.996)	164872	26.2273	26.2	
81 1,4-DICHLOROBENZENE-D4	152	10.482	10.482	(1.000)	201720	50.0000		8844
82 1,4-Dichlorobenzene	146	10.496	10.501	(1.001)	149147	23.5690	23.6	
83 n-Butylbenzene	91	10.654	10.659	(1.016)	285573	23.4760	23.5	9325
85 1,2-Dichlorobenzene	146	10.765	10.765	(1.027)	133755	23.6432	23.6	
86 1,2-Dibromo-3-Chloropropane	157	11.312	11.311	(1.079)	12933	23.6339	23.6	5734
84 TOTAL XYLENE	106				442214	69.4938	69.5	0
87 1,2,4-Trichlorobenzene	180	11.871	11.877	(1.133)	81389	23.6441	23.6	
88 Hexachlorobutadiene	225	11.924	11.930	(1.138)	49986	22.7092	22.7	9459
89 Napthalene	128	12.089	12.094	(1.153)	141742	24.1272	24.1	8878
90 1,2,3-Trichlorobenzene	180	12.273	12.272	(1.171)	74436	23.5075	23.5	

QC Flag Legend

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

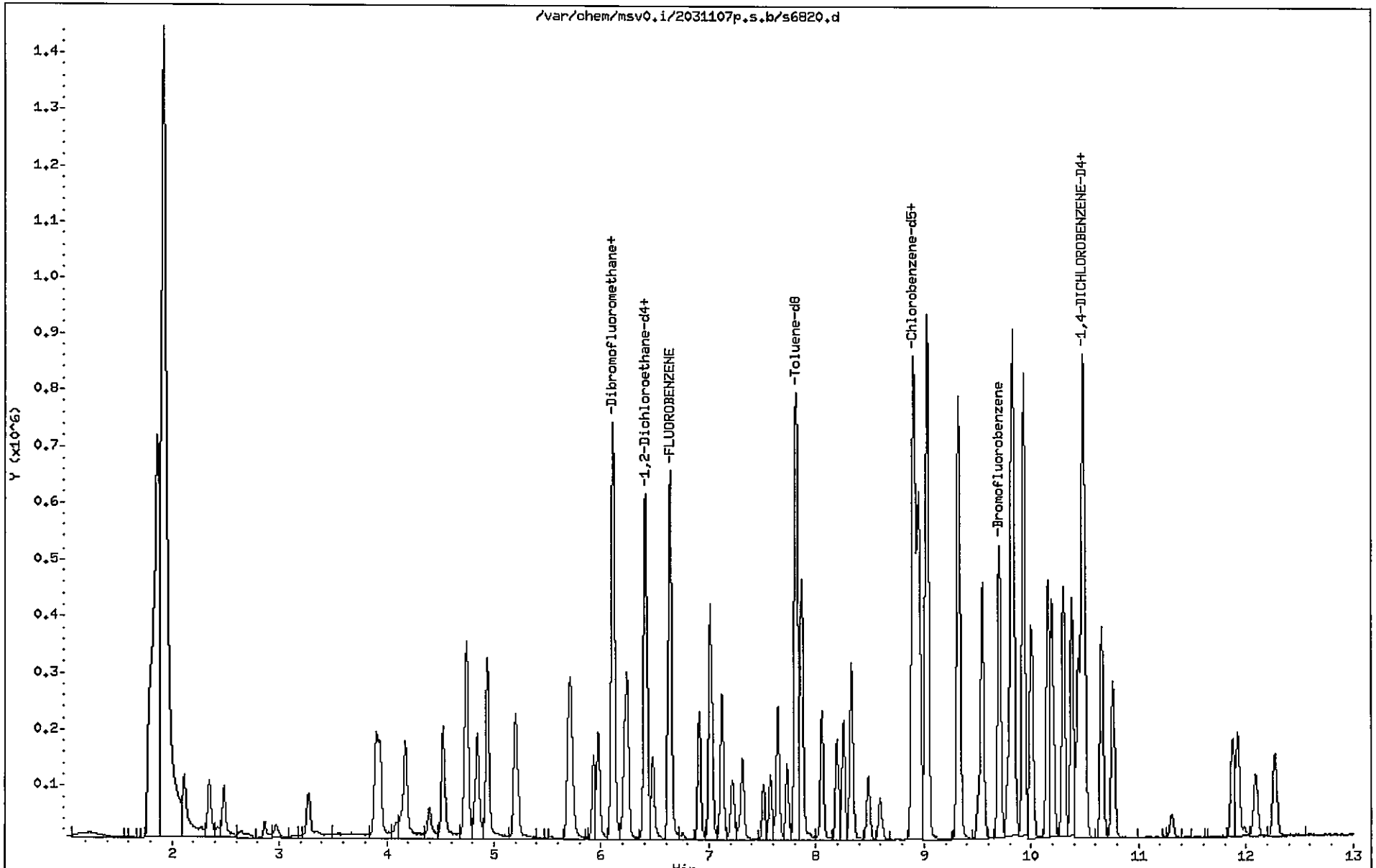
Data File: /var/chem/msv0.i/2031107p.s.b/s6820.d
Date : 07-NOV-2003 17:20
Client ID: LCS for HBN 265084
Sample Info: 129291WLCS for HBN 265084 [MSV/3953]

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000350



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031107p.s.b/s6821.d
Lab Smp Id: 129313 Client Smp ID: LCSD for HBN 265084
Inj Date : 07-NOV-2003 17:43
Operator : KRV Inst ID: msv0.i
Smp Info : 129313*LCSD for HBN 265084 [MSV/3953]
Misc Info : MSV~3953~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031107p.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:25 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 2 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	2.131	2.128	(0.321)	82275	25.8735	25.9	655
2 Chloromethane ++	50	2.361	2.365	(0.356)	134360	30.2125	30.2	6237
3 Vinyl Chloride +	62	2.493	2.490	(0.375)	106944	25.7387	25.7	4526
4 Bromomethane	94	2.908	2.911	(0.438)	53735	25.2374	25.2	6915
5 Chloroethane	64	3.053	3.049	(0.460)	62439	26.9647	27.0	4019
6 Trichlorofluoromethane	101	3.336	3.332	(0.502)	98070	26.5923	26.6	8061
7 Acrolein	56	3.922	3.925	(0.591)	70351	143.041	143	3544
9 1,1,2Trichlotrifluoroethane	101	3.935	3.931	(0.593)	77754	26.7652	26.8	4730
8 1,1-Dichloroethene +	96	3.968	3.971	(0.598)	67643	26.7285	26.7	8711
10 Acetone	43	4.093	4.096	(0.616)	45934	23.5956	23.6	6493
11 Methyl Iodide	142	4.159	4.162	(0.626)	54879	23.6031	23.6	9286
12 Carbon Disulfide	76	4.205	4.201	(0.633)	292422	26.6677	26.7	8809
106 Methyl Acetate	43	4.409	4.412	(0.664)	78336	28.5516	28.6	1682

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13	Methylene Chloride	49	4.540	4.544	(0.684)	160384	29.3953	29.4	9450
14	Acrylonitrile	53	4.850	4.846	(0.730)	167988	141.102	141	6875
15	trans-1,2-Dichloroethene	61	4.771	4.768	(0.718)	121893	26.4812	26.5	8849
16	MTBE	73	4.745	4.748	(0.714)	229816	27.5896	27.6	4200
17	Hexane	57	4.955	4.958	(0.746)	158499	27.3592	27.4	5130
19	Vinyl Acetate	43	4.955	4.958	(0.746)	117077	26.9331	26.9	
18	1,1-Dichloroethane ++	63	5.212	5.209	(0.785)	173127	26.4514	26.5	6277
22	2-Butanone	43	5.745	5.748	(0.865)	64773	25.5044	25.5	
21	cis-1,2-Dichloroethene	61	5.732	5.729	(0.863)	158013	26.5636	26.6	8240
20	2,2-Dichloropropane	77	5.706	5.709	(0.859)	121230	26.2307	26.2	8751
23	Bromochloromethane	128	5.943	5.939	(0.895)	37773	26.5189	26.5	8931
24	Chloroform +	83	5.982	5.985	(0.901)	150141	25.8451	25.8	9317
25	Dibromofluoromethane	111	6.120	6.124	(0.922)	162525	52.9737	53.0	9221
26	1,1,1-Trichloroethane	97	6.120	6.124	(0.922)	119159	26.3679	26.4	8761
105	Cyclohexane	56	6.114	6.117	(0.921)	194879	26.2100	26.2	9221
27	1,1-Dichloropropene	75	6.245	6.249	(0.941)	115329	26.3826	26.4	6777
28	Carbon Tetrachloride	117	6.226	6.229	(0.938)	87651	25.4802	25.5	8698
32	1,2-Dichloroethane-d4	67	6.423	6.426	(0.967)	89120	51.8994	51.9	8005
33	Benzene	78	6.417	6.420	(0.966)	345054	26.3570	26.4	8544
34	1,2-Dichloroethane	62	6.482	6.486	(0.976)	120086	26.9362	26.9	6411
35	FLUOROBENZENE	96	6.640	6.644	(1.000)	596394	50.0000		9364
36	Trichloroethene	130	6.917	6.914	(1.042)	78514	26.3942	26.4	9202
40	Methyl cyclohexane	83	7.022	7.019	(1.057)	149123	26.4942	26.5	5686
37	1,2-Dichloropropane +	63	7.128	7.131	(1.073)	98803	26.2297	26.2	8348
31	Total 1,2-Dichloroethene	61				279906	53.0553	53.1	0
38	Dibromomethane	93	7.226	7.223	(1.088)	46317	26.3084	26.3	8705
39	Bromodichloromethane	83	7.319	7.315	(1.102)	104845	26.6500	26.6	9065
41	2-Chloroethyl vinyl ether	63	7.516	7.513	(1.132)	40029	27.1028	27.1	6782
42	1-Bromo-2-chloroethane	144	7.582	7.585	(1.142)	10748	27.3177	27.3	1355
44	cis-1,3-Dichloropropene	75	7.648	7.644	(1.152)	142979	26.4929	26.5	
45	4-methyl-2-pentanone	43	7.733	7.730	(1.165)	113400	26.8174	26.8	
46	Toluene-d8	98	7.819	7.822	(0.879)	562974	48.0698	48.1	8858
47	Toluene +	91	7.871	7.868	(0.885)	373340	24.3023	24.3	9272
51	trans-1,3-Dichloropropene	75	8.056	8.059	(0.905)	132539	23.2520	23.3	
52	1,1,2-Trichloroethane	97	8.201	8.204	(0.922)	63734	22.8211	22.8	8366
53	1,3-Dichloropropane	76	8.332	8.335	(0.936)	128148	22.9471	22.9	8577
54	Tetrachloroethene	164	8.260	8.263	(0.928)	55992	22.3309	22.3	5601
55	2-Hexanone	43	8.332	8.329	(0.936)	93193	23.1262	23.1	5434
56	Dibromochloromethane	129	8.484	8.487	(0.953)	69791	22.3838	22.4	8867
57	1,2-Dibromoethane(EDB)	107	8.602	8.605	(0.967)	64646	22.9877	23.0	5533
58	Chlorobenzene-d5	82	8.898	8.902	(1.000)	271606	50.0000		9177
59	Chlorobenzene ++	112	8.925	8.921	(1.003)	216602	22.4911	22.5	8514
60	1,1,1,2-Tetrachloroethane	133	8.964	8.974	(1.007)	64595	22.3008	22.3	8649
61	Ethylbenzene +	106	8.951	8.954	(1.006)	113456	22.2662	22.3	9323
62	p,m-Xylene	106	9.030	9.033	(1.015)	298174	45.6461	45.6	9369
63	o-Xylene	106	9.313	9.316	(1.047)	140159	22.5309	22.5	
64	Styrene	104	9.326	9.330	(1.048)	254237	22.4802	22.5	8566

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.504	9.507	(1.068)	42885	22.8719	22.9	8212
66 Isopropylbenzene	105	9.544	9.547	(1.073)	354802	22.4450	22.4	9293
67 Bromofluorobenzene	174	9.702	9.705	(1.090)	159513	47.2327	47.2	8316
68 1,1,2,2-Tetrachloroethane++	83	9.781	9.790	(0.933)	83972	24.1705	24.2	8934
69 trans-1,4-Dichloro-2-Butene	53	9.932	9.935	(0.948)	13455	23.8204	23.8	4506
70 1,2,3-Trichloropropane	75	9.833	9.836	(0.938)	112766	24.2410	24.2	6439
71 Bromobenzene	77	9.827	9.830	(0.938)	205236	23.3448	23.3	6738
72 n-Propylbenzene	91	9.820	9.830	(0.937)	470267	24.5581	24.6	7390
73 2-Chlorotoluene	91	10.004	9.935	(0.955)	282106	21.9874	22.0	9077
74 1,3,5-Trimethylbenzene	105	9.932	9.935	(0.948)	305199	23.0982	23.1	
75 4-Chlorotoluene	91	10.004	10.008	(0.955)	294820	23.7142	23.7	8664
76 tert-butylbenzene	91	10.156	10.159	(0.969)	214575	23.4452	23.4	9027
77 1,2,4-Trimethylbenzene	105	10.195	10.198	(0.973)	290904	23.4944	23.5	
78 sec-Butylbenzene	105	10.301	10.304	(0.983)	394565	23.2572	23.3	
79 p-Isopropyltoluene	119	10.380	10.383	(0.991)	295136	23.0181	23.0	9040
80 1,3-Dichlorobenzene	146	10.432	10.442	(0.996)	162517	26.2802	26.3	
81 1,4-DICHLOROBENZENE-D4	152	10.478	10.482	(1.000)	198439	50.0000		8846
82 1,4-Dichlorobenzene	146	10.492	10.501	(1.001)	144076	23.1441	23.1	
83 n-Butylbenzene	91	10.650	10.659	(1.016)	282800	23.6325	23.6	9331
85 1,2-Dichlorobenzene	146	10.761	10.765	(1.027)	134792	24.2205	24.2	
86 1,2-Dibromo-3-Chloropropane	157	11.308	11.311	(1.079)	13593	25.2507	25.3	5868
84 TOTAL XYLENE	106				438333	68.1770	68.2	0
87 1,2,4-Trichlorobenzene	180	11.867	11.877	(1.133)	83702	24.7181	24.7	
88 Hexachlorobutadiene	225	11.920	11.930	(1.138)	52348	24.1755	24.2	9464
89 Napthalene	128	12.085	12.094	(1.153)	144481	25.0001	25.0	8934
90 1,2,3-Trichlorobenzene	180	12.262	12.272	(1.170)	77409	24.8506	24.9	

Data File: /var/chem/msv0.i/2031107p.s.b/s6821.d

Date : 07-NOV-2003 17:43

Client ID: LCSD for HBN 265084

Sample Info: 129313*LCSD for HBN 265084 [MSV/3953]

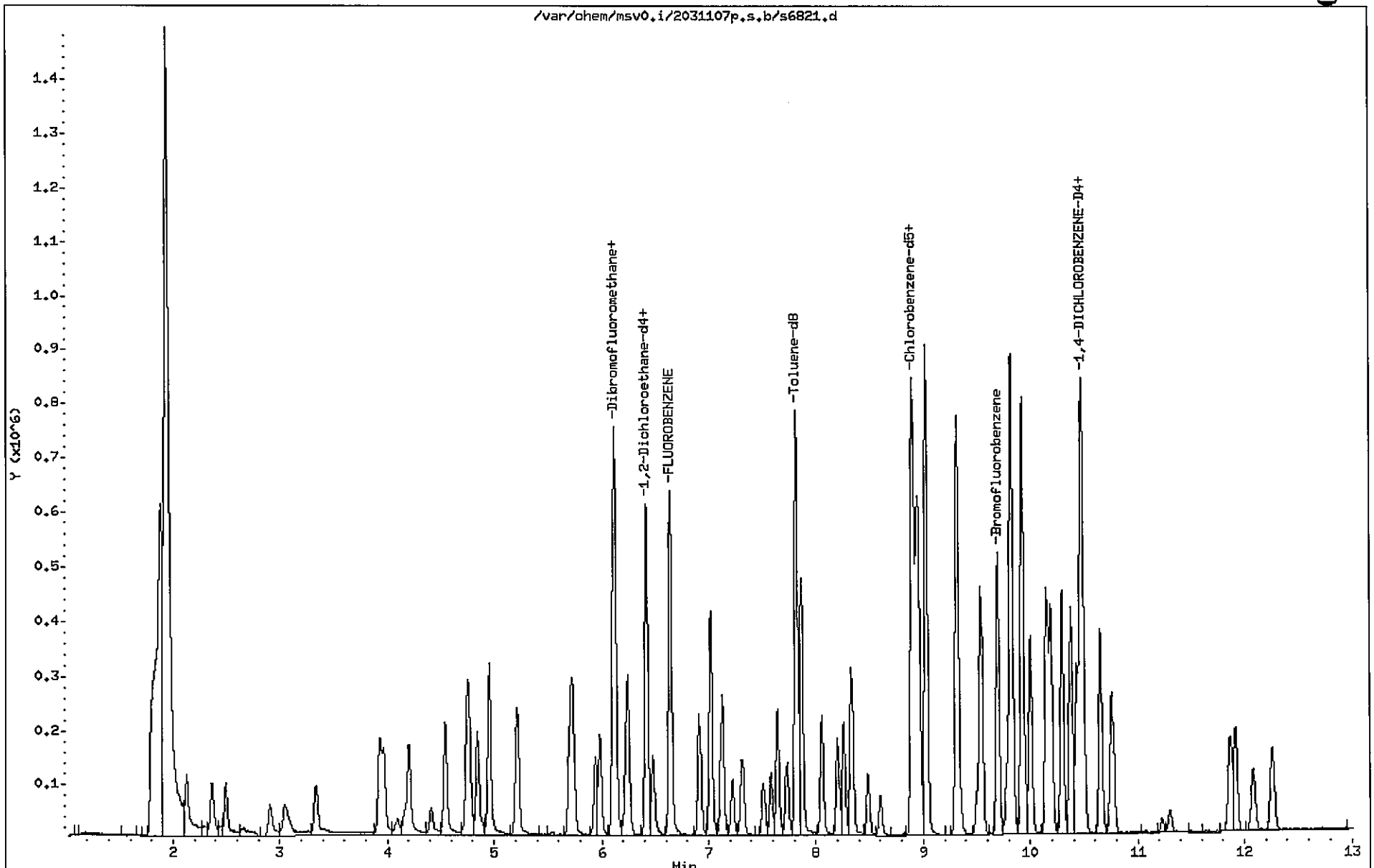
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV

Column diameter: 0.53

000354



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6852.d
Lab Smp Id: 129314 Client Smp ID: LCS for HBN 265098
Inj Date : 08-NOV-2003 09:58
Operator : KRV Inst ID: msv0.i
Smp Info : 129314*LCS for HBN 265098 [MSV/3957]
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:53 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 2 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	2.127	2.135	(0.321)	63458	20.0402	20.0	534
2 Chloromethane ++	50	2.358	2.366	(0.355)	99923	22.5637	22.6	6237
3 Vinyl Chloride +	62	2.489	2.497	(0.375)	81825	19.7763	19.8	4479
4 Bromomethane	94	2.917	2.919	(0.440)	45105	21.2803	21.3	6918
5 Chloroethane	64	3.049	3.057	(0.459)	48302	20.3128	20.3	3990
6 Trichlorofluoromethane	101	3.332	3.340	(0.502)	75094	20.4481	20.4	8059
7 Acrolein	56	3.918	3.919	(0.590)	56467	115.296	115	3544
9 1,1,2Trichlotrifluoroethane	101	3.931	3.932	(0.592)	60427	20.8885	20.9	4766
8 1,1-Dichloroethene +	96	3.964	3.965	(0.597)	51058	20.2602	20.3	8704
10 Acetone	43	4.089	4.090	(0.616)	41330	19.9710	20.0	6493
11 Methyl Iodide	142	4.155	4.156	(0.626)	50447	21.7885	21.8	9266
12 Carbon Disulfide	76	4.194	4.202	(0.632)	219508	20.1027	20.1	8809
106 Methyl Acetate	43	4.405	4.406	(0.664)	60745	22.2335	22.2	1664

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.537	4.538	(0.684)	104893	17.4462	17.4	9493
14 Acrylonitrile	53	4.840	4.841	(0.729)	148645	125.381	125	6875
15 trans-1,2-Dichloroethene	61	4.761	4.762	(0.717)	94887	20.7011	20.7	8849
16 MTBE	73	4.741	4.742	(0.714)	182771	22.0344	22.0	4285
17 Hexane	57	4.952	4.953	(0.746)	131966	22.8753	22.9	5150
19 Vinyl Acetate	43	4.952	4.953	(0.746)	97250	22.4664	22.5	
18 1,1-Dichloroethane ++	63	5.202	5.209	(0.784)	149320	22.9103	22.9	6161
22 2-Butanone	43	5.735	5.736	(0.864)	66466	26.4100	26.4	
21 cis-1,2-Dichloroethene	61	5.722	5.723	(0.862)	133381	22.5174	22.5	8240
20 2,2-Dichloropropane	77	5.702	5.703	(0.859)	98472	21.3964	21.4	8529
23 Bromochloromethane	128	5.932	5.934	(0.894)	37013	26.0950	26.1	9217
24 Chloroform +	83	5.978	5.980	(0.901)	128194	22.1603	22.2	9156
25 Dibromofluoromethane	111	6.117	6.118	(0.922)	156407	51.1947	51.2	9387
26 1,1,1-Trichloroethane	97	6.110	6.118	(0.921)	99763	22.1690	22.2	8802
105 Cyclohexane	56	6.110	6.111	(0.921)	170959	23.0899	23.1	9385
27 1,1-Dichloropropene	75	6.242	6.243	(0.940)	100774	23.1503	23.2	6709
28 Carbon Tetrachloride	117	6.222	6.223	(0.938)	76749	22.4051	22.4	8887
32 1,2-Dichloroethane-d4	67	6.413	6.414	(0.966)	78027	45.6311	45.6	8136
33 Benzene	78	6.413	6.414	(0.966)	314803	24.1478	24.1	8494
34 1,2-Dichloroethane	62	6.472	6.473	(0.975)	98375	22.1594	22.2	6411
35 FLUOROBENZENE	96	6.637	6.638	(1.000)	593888	50.0000		9603
36 Trichloroethene	130	6.907	6.908	(1.041)	75673	25.5464	25.5	9161
40 Methyl cyclohexane	83	7.012	7.013	(1.057)	139098	24.8174	24.8	5670
37 1,2-Dichloropropane +	63	7.117	7.119	(1.072)	92279	24.6011	24.6	8584
31 Total 1,2-Dichloroethene	61				228268	43.4501	43.5	0
38 Dibromomethane	93	7.216	7.217	(1.087)	44248	25.2392	25.2	8951
39 Bromodichloromethane	83	7.308	7.309	(1.101)	91867	23.4497	23.4	9277
41 2-Chloroethyl vinyl ether	63	7.506	7.507	(1.131)	17848	12.1355	12.1	6767(R)
42 1-Bromo-2-chloroethane	144	7.578	7.573	(1.142)	10478	26.7438	26.7	1355
44 cis-1,3-Dichloropropene	75	7.637	7.639	(1.151)	134107	24.9539	25.0	
45 4-methyl-2-pentanone	43	7.723	7.724	(1.164)	104404	24.7941	24.8	
46 Toluene-d8	98	7.809	7.810	(0.879)	567141	50.4935	50.5	8622
47 Toluene +	91	7.861	7.862	(0.884)	326824	22.1828	22.2	9168
51 trans-1,3-Dichloropropene	75	8.046	8.047	(0.905)	121263	22.1823	22.2	
52 1,1,2-Trichloroethane	97	8.190	8.192	(0.921)	62197	23.2217	23.2	8320
53 1,3-Dichloropropane	76	8.322	8.323	(0.936)	122364	22.8470	22.8	8612
54 Tetrachloroethene	164	8.250	8.251	(0.928)	54498	22.6632	22.7	5538
55 2-Hexanone	43	8.322	8.323	(0.936)	91599	23.7012	23.7	5857
56 Dibromochloromethane	129	8.480	8.481	(0.954)	69338	23.1881	23.2	9012
57 1,2-Dibromoethane(EDB)	107	8.592	8.593	(0.967)	64752	24.0086	24.0	5533
58 Chlorobenzene-d5	82	8.888	8.889	(1.000)	260483	50.0000		8881
59 Chlorobenzene ++	112	8.908	8.909	(1.002)	210157	22.7537	22.8	8366
60 1,1,1,2-Tetrachloroethane	133	8.961	8.962	(1.008)	62499	22.4986	22.5	9128
61 Ethylbenzene +	106	8.941	8.942	(1.006)	105609	21.6112	21.6	9407
62 p,m-Xylene	106	9.020	9.021	(1.015)	278370	44.4341	44.4	9316
63 o-Xylene	106	9.303	9.311	(1.047)	132576	22.2220	22.2	
64 Styrene	104	9.316	9.317	(1.048)	237617	21.9078	21.9	8774

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.494	9.495	(1.068)	42292	23.5188	23.5	8372
66 Isopropylbenzene	105	9.533	9.535	(1.073)	329255	21.7183	21.7	9394
67 Bromofluorobenzene	174	9.691	9.693	(1.090)	161579	49.8875	49.9	8545
68 1,1,2,2-Tetrachloroethane++	83	9.770	9.772	(0.934)	77540	22.6273	22.6	9293
69 trans-1,4-Dichloro-2-Butene	53	9.915	9.923	(0.948)	10780	19.3482	19.3	4530
70 1,2,3-Trichloropropane	75	9.823	9.824	(0.939)	102675	22.3765	22.4	6586
71 Bromobenzene	77	9.810	9.818	(0.938)	182049	20.9934	21.0	7037
72 n-Propylbenzene	91	9.810	9.811	(0.938)	414576	21.9488	21.9	7546
73 2-Chlorotoluene	91	9.915	9.916	(0.948)	262484	20.7406	20.7	8928(H)
74 1,3,5-Trimethylbenzene	105	9.922	9.923	(0.948)	277860	21.3195	21.3	
75 4-Chlorotoluene	91	9.988	9.995	(0.955)	259930	21.1965	21.2	8651
76 tert-butylbenzene	91	10.139	10.147	(0.969)	182794	20.2485	20.2	9127
77 1,2,4-Trimethylbenzene	105	10.178	10.180	(0.973)	265072	21.7038	21.7	
78 sec-Butylbenzene	105	10.284	10.285	(0.983)	357284	21.3505	21.4	
79 p-Isopropyltoluene	119	10.363	10.371	(0.991)	276463	21.8596	21.9	9231
80 1,3-Dichlorobenzene	146	10.422	10.423	(0.996)	144346	23.6641	23.7	
81 1,4-DICHLOROBENZENE-D4	152	10.461	10.463	(1.000)	195736	50.0000		9238
82 1,4-Dichlorobenzene	146	10.481	10.482	(1.002)	137674	22.4211	22.4	
83 n-Butylbenzene	91	10.639	10.640	(1.017)	255445	21.6413	21.6	9327
85 1,2-Dichlorobenzene	146	10.751	10.752	(1.028)	124571	22.6930	22.7	
86 1,2-Dibromo-3-Chloropropane	157	11.291	11.292	(1.079)	12735	23.9836	24.0	5734
84 TOTAL XYLENE	106				410946	66.6561	66.7	0
87 1,2,4-Trichlorobenzene	180	11.851	11.852	(1.133)	77544	23.2158	23.2	
88 Hexachlorobutadiene	225	11.903	11.904	(1.138)	48249	22.5902	22.6	9657
89 Napthalene	128	12.068	12.069	(1.154)	139305	24.4373	24.4	9223
90 1,2,3-Trichlorobenzene	180	12.246	12.247	(1.171)	71604	23.3044	23.3	

QC Flag Legend

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

Data File: /var/chem/msv0.i/2031108.s.b/s6852.d

Date : 08-NOV-2003 09:58

Client ID: LCS for HBN 265098

Sample Info: 129314MLCS for HBN 265098 [MSV/3957]

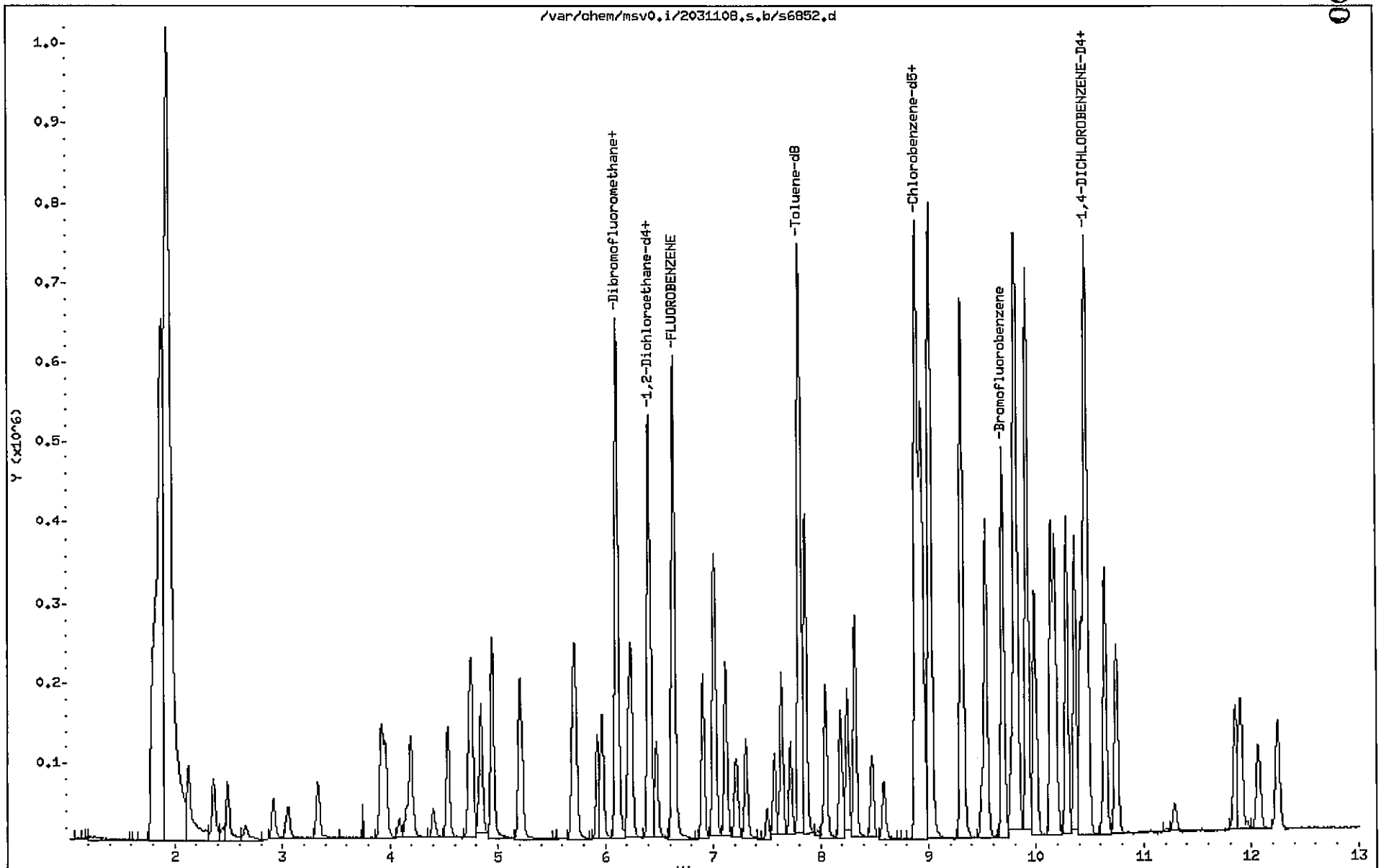
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV

Column diameter: 0.53

000059



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6853.d
Lab Smp Id: 129332 Client Smp ID: LCSD for HBN 265098
Inj Date : 08-NOV-2003 10:20
Operator : KRV Inst ID: msv0.i
Smp Info : 129332*LCSD for HBN 265098 [MSV/3957]
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:53 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/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	2.128	2.135	(0.321)	62800	20.4298	20.4	545
2 Chloromethane ++	50	2.358	2.366	(0.355)	101037	23.5025	23.5	6237
3 Vinyl Chloride +	62	2.490	2.497	(0.375)	83184	20.7103	20.7	4487
4 Bromomethane	94	2.911	2.919	(0.439)	45923	22.3167	22.3	6773
5 Chloroethane	64	3.049	3.057	(0.459)	49243	21.4750	21.5	3990
6 Trichlorofluoromethane	101	3.332	3.340	(0.502)	75466	21.1684	21.2	8036
7 Acrolein	56	3.918	3.919	(0.590)	56394	118.615	119	3498
9 1,1,2Trichlotrifluoroethane	101	3.925	3.932	(0.591)	57579	20.5035	20.5	4688
8 1,1-Dichloroethene +	96	3.964	3.965	(0.597)	50998	20.8459	20.8	8718
10 Acetone	43	4.090	4.090	(0.616)	32436	13.4653	13.5	6493(R)
11 Methyl Iodide	142	4.155	4.156	(0.626)	51777	23.0365	23.0	9201
12 Carbon Disulfide	76	4.195	4.202	(0.632)	221175	20.8654	20.9	8802
106 Methyl Acetate	43	4.406	4.406	(0.664)	50432	19.0148	19.0	1654

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.537	4.538	(0.684)	105809	18.3406	18.3	9452
14 Acrylonitrile	53	4.840	4.841	(0.729)	144626	125.666	126	6875
15 trans-1,2-Dichloroethene	61	4.761	4.762	(0.717)	95329	21.4240	21.4	8849
16 MTBE	73	4.741	4.742	(0.714)	164690	20.4527	20.5	4271
17 Hexane	57	4.952	4.953	(0.746)	135072	24.1189	24.1	5086
19 Vinyl Acetate	43	4.952	4.953	(0.746)	95918	22.8261	22.8	
18 1,1-Dichloroethane ++	63	5.202	5.209	(0.784)	147183	23.2626	23.3	6127
22 2-Butanone	43	5.735	5.736	(0.864)	46777	17.9862	18.0	
21 cis-1,2-Dichloroethene	61	5.722	5.723	(0.862)	133095	23.1458	23.1	8223
20 2,2-Dichloropropane	77	5.702	5.703	(0.859)	99941	22.3697	22.4	8459
23 Bromochloromethane	128	5.933	5.934	(0.894)	35325	25.6551	25.7	9298
24 Chloroform +	83	5.979	5.980	(0.901)	127752	22.7491	22.7	9105
25 Dibromofluoromethane	111	6.117	6.118	(0.922)	152130	51.2946	51.3	9380
26 1,1,1-Trichloroethane	97	6.111	6.118	(0.921)	98342	22.5115	22.5	8830
105 Cyclohexane	56	6.104	6.111	(0.920)	169820	23.6269	23.6	9328
27 1,1-Dichloropropene	75	6.242	6.243	(0.940)	100944	23.8878	23.9	6701
28 Carbon Tetrachloride	117	6.222	6.223	(0.938)	76734	23.0754	23.1	8855
32 1,2-Dichloroethane-d4	67	6.413	6.414	(0.966)	76494	46.0820	46.1	8104
33 Benzene	78	6.413	6.414	(0.966)	315224	24.9084	24.9	8543
34 1,2-Dichloroethane	62	6.473	6.473	(0.975)	91676	21.2724	21.3	6411
35 FLUOROBENZENE	96	6.637	6.638	(1.000)	576523	50.0000		9642
36 Trichloroethene	130	6.907	6.908	(1.041)	73693	25.6274	25.6	9171
40 Methyl cyclohexane	83	7.012	7.013	(1.057)	137509	25.2729	25.3	5675
37 1,2-Dichloropropane +	63	7.118	7.119	(1.072)	89198	24.4960	24.5	8597
31 Total 1,2-Dichloroethene	61				228424	44.7894	44.8	0
38 Dibromomethane	93	7.210	7.217	(1.086)	41211	24.2149	24.2	8914
39 Bromodichloromethane	83	7.309	7.309	(1.101)	88017	23.1437	23.1	9195
41 2-Chloroethyl vinyl ether	63	7.506	7.507	(1.131)	15561	10.8992	10.9	6730(R)
42 1-Bromo-2-chloroethane	144	7.572	7.573	(1.141)	9481	24.9280	24.9	1355
44 cis-1,3-Dichloropropene	75	7.638	7.639	(1.151)	127255	24.3921	24.4	
45 4-methyl-2-pentanone	43	7.723	7.724	(1.164)	92249	22.5674	22.6	
46 Toluene-d8	98	7.809	7.810	(0.879)	560099	49.9190	49.9	8555
47 Toluene +	91	7.862	7.862	(0.884)	336159	22.8405	22.8	9160
51 trans-1,3-Dichloropropene	75	8.046	8.047	(0.905)	115045	21.0670	21.1	
52 1,1,2-Trichloroethane	97	8.191	8.192	(0.921)	58802	21.9773	22.0	8388
53 1,3-Dichloropropane	76	8.322	8.323	(0.936)	114626	21.4248	21.4	8626
54 Tetrachloroethene	164	8.250	8.251	(0.928)	54311	22.6092	22.6	5521
55 2-Hexanone	43	8.322	8.323	(0.936)	68279	17.6858	17.7	5606
56 Dibromochloromethane	129	8.474	8.481	(0.953)	65363	21.8818	21.9	9015
57 1,2-Dibromoethane(EDB)	107	8.592	8.593	(0.967)	59739	22.1733	22.2	5533
58 Chlorobenzene-d5	82	8.889	8.889	(1.000)	260209	50.0000		8877
59 Chlorobenzene ++	112	8.908	8.909	(1.002)	208780	22.6285	22.6	8449
60 1,1,1,2-Tetrachloroethane	133	8.961	8.962	(1.008)	61079	22.0105	22.0	9168
61 Ethylbenzene +	106	8.941	8.942	(1.006)	106495	21.8155	21.8	9398
62 p,m-Xylene	106	9.020	9.021	(1.015)	285095	45.5554	45.6	9363
63 o-Xylene	106	9.303	9.311	(1.047)	134110	22.5028	22.5	
64 Styrene	104	9.316	9.317	(1.048)	241735	22.3109	22.3	8783

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.494	9.495	(1.068)	39171	21.8061	21.8	8274
66 Isopropylbenzene	105	9.534	9.535	(1.073)	337815	22.3064	22.3	9394
67 Bromofluorobenzene	174	9.692	9.693	(1.090)	162219	50.1378	50.1	8606
68 1,1,2,2-Tetrachloroethane++	83	9.771	9.772	(0.934)	73892	21.6476	21.6	9180
69 trans-1,4-Dichloro-2-Butene	53	9.922	9.923	(0.948)	11383	20.5108	20.5	4531
70 1,2,3-Trichloropropane	75	9.823	9.824	(0.939)	95723	20.9435	20.9	6456
71 Bromobenzene	77	9.810	9.818	(0.938)	181649	21.0296	21.0	7059
72 n-Propylbenzene	91	9.810	9.811	(0.938)	431472	22.9332	22.9	7608
73 2-Chlorotoluene	91	9.916	9.916	(0.948)	272735	21.6353	21.6	8931
74 1,3,5-Trimethylbenzene	105	9.922	9.923	(0.948)	285297	21.9763	22.0	
75 4-Chlorotoluene	91	9.988	9.995	(0.955)	273617	22.4004	22.4	8645
76 tert-butylbenzene	91	10.139	10.147	(0.969)	187241	20.8227	20.8	9131
77 1,2,4-Trimethylbenzene	105	10.179	10.180	(0.973)	265432	21.8188	21.8	
78 sec-Butylbenzene	105	10.284	10.285	(0.983)	367581	22.0523	22.1	
79 p-Isopropyltoluene	119	10.363	10.371	(0.991)	280324	22.2520	22.3	9206
80 1,3-Dichlorobenzene	146	10.422	10.423	(0.996)	144914	23.8507	23.9	
81 1,4-DICHLOROBENZENE-D4	152	10.462	10.463	(1.000)	194969	50.0000		9242
82 1,4-Dichlorobenzene	146	10.482	10.482	(1.002)	137352	22.4567	22.5	
83 n-Butylbenzene	91	10.640	10.640	(1.017)	257887	21.9341	21.9	9337
85 1,2-Dichlorobenzene	146	10.745	10.752	(1.027)	121006	22.1303	22.1	
86 1,2-Dibromo-3-Chloropropane	157	11.291	11.292	(1.079)	11188	21.1530	21.2	5705
84 TOTAL XYLENE	106				419205	68.0582	68.1	0
87 1,2,4-Trichlorobenzene	180	11.851	11.852	(1.133)	73809	22.1845	22.2	
88 Hexachlorobutadiene	225	11.904	11.904	(1.138)	47424	22.2913	22.3	9610
89 Napthalene	128	12.062	12.069	(1.153)	121547	21.4060	21.4	9136
90 1,2,3-Trichlorobenzene	180	12.239	12.247	(1.170)	65680	21.4605	21.5	

QC Flag Legend

2 - Spike/Surrogate failed recovery limits.

Data File: /var/chem/msv0.i/2031108.s.b/s6853.d

Date : 08-NOV-2003 10:20

Client ID: LCSD for HBN 265098

Sample Info: 129332*LCSD for HBN 265098 [MSV/3957]

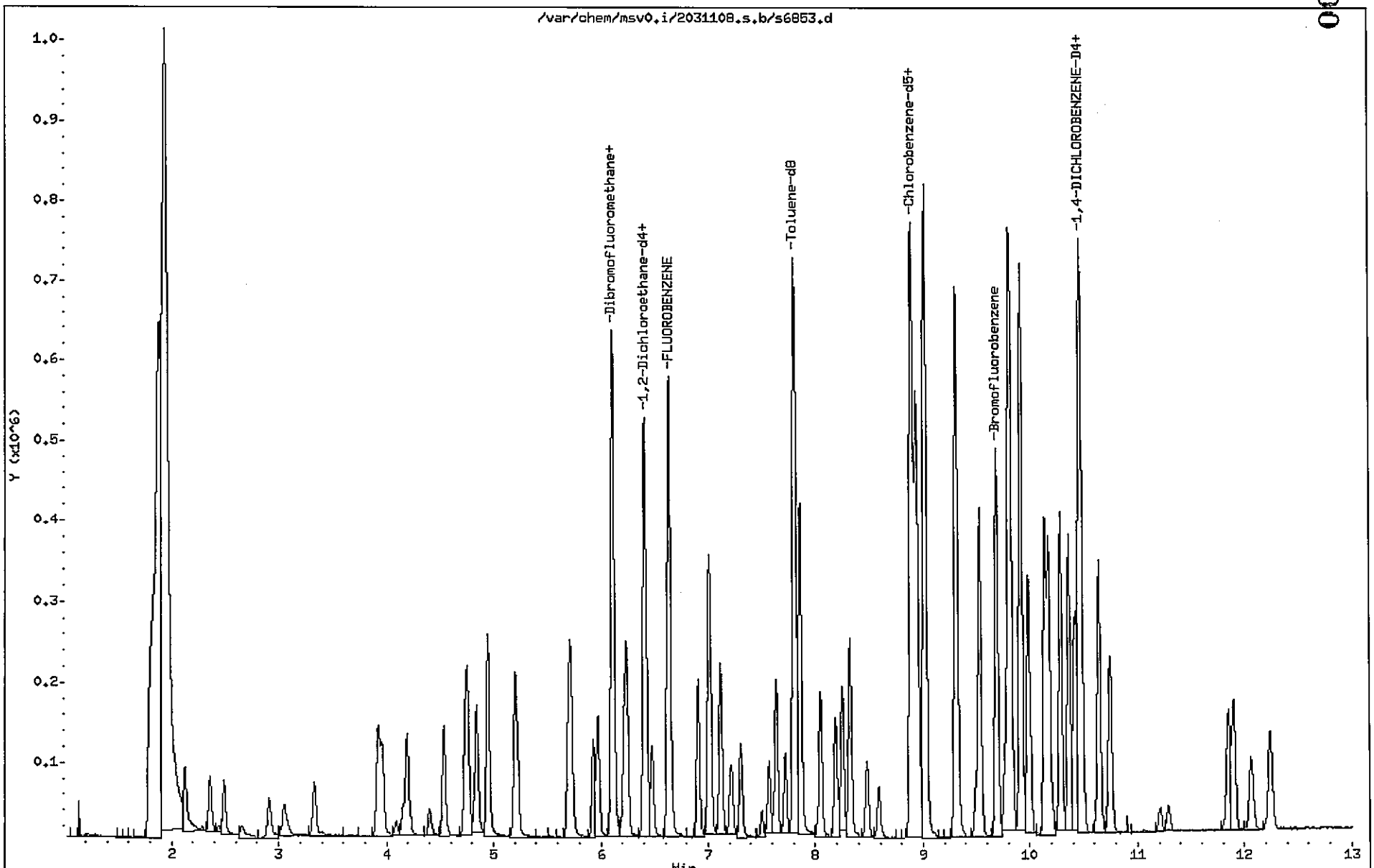
Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV

Column diameter: 0.53

000362



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv1.i/2031109.s.b/s4908.d
Lab Smp Id: 129374 Client Smp ID: LCS for HBN 265120
Inj Date : 09-NOV-2003 10:07
Operator : RSP Inst ID: msv1.i
Smp Info : 129374*LCS for HBN 265120 [MSV/3964]
Misc Info : MSV~3964~*1*RSP
Comment :
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Meth Date : 09-Nov-2003 11:03 sab Quant Type: ISTD
Cal Date : 05-NOV-2003 16:58 Cal File: s4804.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	2.354	2.315	(0.388)	282512	25.0105	25.0	
2 Chloromethane ++	50	2.652	2.608	(0.437)	170639	24.1751	24.2	
3 Vinyl Chloride +	62	2.698	2.653	(0.445)	208917	25.4259	25.4	
5 Bromomethane	94	3.076	3.037	(0.507)	144643	23.3691	23.4	
6 Chloroethane	64	3.157	3.095	(0.520)	136744	29.4212	29.4	
7 Trichlorofluoromethane	101	3.369	3.324	(0.555)	382294	27.5859	27.6	
9 Acrolein	56	4.486	4.419	(0.739)	30105	28.0037	28.0	
10 1,1,2Trichlotrifluoroethane	101	3.838	3.788	(0.633)	416272	27.2350	27.2	
11 1,1-Dichloroethene +	96	3.884	3.811	(0.640)	208017	26.6303	26.6	
12 Acetone	43	3.982	3.914	(0.656)	66201	31.5337	31.5	
13 Methyl Iodide	142	4.045	3.994	(0.667)	418709	25.5646	25.6	
14 Carbon Disulfide	76	4.079	4.035	(0.672)	598340	26.2858	26.3	
17 Methylene Chloride	49	4.331	4.264	(0.714)	297006	25.6957	25.7	
19 trans-1,2-Dichloroethene	61	4.503	4.436	(0.742)	322455	25.8292	25.8	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/L)	SIMILARITY
20 Methyl Acetate	43	4.205	4.155	(0.693)	188413	25.1415	25.1	2494(H)
21 MTBE	73	4.498	4.430	(0.741)	670011	25.8818	25.9	5027
22 Acrylonitrile	53	4.566	4.499	(0.753)	296091	113.388	113	
23 Hexane	57	4.652	4.585	(0.767)	335765	26.3545	26.4	3298
24 1,1-Dichloroethane ++	63	4.859	4.791	(0.801)	430032	25.5967	25.6	
25 Vinyl Acetate	43	4.859	4.791	(0.801)	506103	31.3301	31.3	
31 2,2-Dichloropropane	77	5.266	5.198	(0.868)	384417	28.9285	28.9	
30 cis-1,2-Dichloroethene	61	5.283	5.209	(0.871)	412706	26.0499	26.0	
32 2-Butanone	43	5.294	5.232	(0.872)	137336	28.6891	28.7	
34 Bromochloromethane	128	5.455	5.387	(0.899)	162225	26.6425	26.6	
36 Dibromofluoromethane	111	5.598	5.536	(0.923)	716454	53.2564	53.3	5170
37 1,1,1-Trichloroethane	97	6.297	6.230	(1.038)	267134	18.1775	18.2	(RM)
38 Cyclohexane	56	5.627	5.559	(0.927)	455274	26.9638	27.0	5008
39 Carbon Tetrachloride	117	5.713	5.651	(0.941)	331600	28.2258	28.2	
41 Chloroform +	83	5.478	5.410	(0.903)	509764	26.3116	26.3	
42 1,1-Dichloropropene	75	5.735	5.668	(0.945)	384841	26.1297	26.1	
43 1,2-Dichloroethane-d4	67	5.867	5.794	(0.967)	289464	49.9394	49.9	
44 Benzene	78	5.873	5.800	(0.968)	844671	27.1442	27.1	
46 1,2-Dichloroethane	62	5.919	5.846	(0.975)	326839	26.9905	27.0	
47 FLUOROBENZENE	96	6.068	6.000	(1.000)	1635159	50.0000		
48 Total 1,2-Dichloroethene	61				735161	51.8791	51.9	
49 Trichloroethene	130	6.303	6.230	(1.039)	361006	24.4530	24.5	
50 Methyl Cyclohexane	83	6.406	6.338	(1.056)	475592	26.3638	26.4	6280
51 1,2-Dichloropropane +	63	6.503	6.430	(1.072)	347932	27.4805	27.5	
52 Dibromomethane	93	6.578	6.505	(1.084)	260216	25.9802	26.0	
54 Bromodichloromethane	83	6.652	6.579	(1.096)	453379	25.2946	25.3	
56 2-Chloroethyl vinyl ether	63	6.824	6.757	(1.125)	194198	27.5691	27.6	
57 cis-1,3-Dichloropropene	75	6.962	6.883	(1.147)	465733	25.6752	25.7	
58 4-methyl-2-pentanone	43	7.036	6.969	(1.160)	336699	24.5195	24.5	
59 Toluene-d8	98	7.122	7.049	(0.870)	1609035	51.7246	51.7	
60 Toluene +	91	7.168	7.101	(0.876)	1010415	26.3792	26.4	
61 trans-1,3-Dichloropropene	75	7.334	7.261	(0.896)	425616	24.6993	24.7	
64 1,1,2-Trichloroethane	97	7.472	7.404	(0.913)	302259	24.5962	24.6	
65 Tetrachloroethene	164	7.535	7.462	(0.921)	268537	26.1609	26.2	
66 1,3-Dichloropropane	76	7.592	7.530	(0.928)	504229	25.0418	25.0	
67 2-Hexanone	43	7.598	7.525	(0.929)	241466	23.8800	23.9	
68 Dibromochloromethane	129	7.758	7.668	(0.948)	406430	25.1151	25.1	
69 1,2-Dibromoethane(EDB)	107	7.862	7.794	(0.961)	403197	24.7828	24.8	
70 CHLOROBENZENE-d5	82	8.183	8.092	(1.000)	880802	50.0000		
71 Chlorobenzene ++	112	8.211	8.121	(1.004)	685226	26.6463	26.6	
72 Ethylbenzene +	106	8.246	8.155	(1.008)	274352	24.6666	24.7	(M)
73 1,1,1,2-Tetrachloroethane	133	8.257	8.172	(1.009)	309521	27.7970	27.8	(M)
74 p,m-Xylene	106	8.326	8.253	(1.018)	983547	57.4600	57.5	
75 o-Xylene	106	8.693	8.591	(1.062)	443110	28.6833	28.7	
76 Styrene	104	8.693	8.602	(1.062)	762682	27.8825	27.9	
77 Bromoform ++	173	8.899	8.808	(1.088)	311937	28.7614	28.8	
78 Isopropylbenzene	105	8.973	8.889	(1.097)	1231897	30.8036	30.8	(R)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	CONCENTRATIONS FINAL (ug/L)	SIMILARITY
79	Bromofluorobenzene	174	9.180	9.089	(1.122)	652863	56.8245	56.8	
80	1,1,2,2-Tetrachloroethane++	83	9.271	9.181	(0.898)	460539	30.4169	30.4	
83	Bromobenzene	77	9.340	9.244	(0.905)	899930	24.2389	24.2	
82	trans-1,4-Dichloro-2-Butene	53	9.334	9.250	(0.904)	111039	24.3973	24.4	
84	1,2,3-Trichloropropane	75	9.346	9.255	(0.905)	623483	24.9695	25.0	
85	n-Propylbenzene	91	9.352	9.261	(0.906)	1476201	26.1900	26.2	
86	2-Chlorotoluene	91	9.501	9.404	(0.920)	1031329	25.5206	25.5	(MH)
87	1,3,5-Trimethylbenzene	105	9.512	9.422	(0.921)	970607	27.2546	27.3	(H)
89	4-Chlorotoluene	91	9.598	9.508	(0.930)	1044828	25.6245	25.6	(M)
90	tert-butylbenzene	91	9.833	9.748	(0.952)	696801	25.4535	25.5	
91	p-Isopropyltoluene	119	9.845	9.737	(0.953)	1058276	26.8364	26.8	
92	1,2,4-Trimethylbenzene	105	9.908	9.794	(0.959)	899404	28.2650	28.3	
93	sec-Butylbenzene	105	10.068	9.966	(0.975)	1504349	26.9930	27.0	
95	1,3-Dichlorobenzene	146	10.257	10.155	(0.993)	583892	27.3955	27.4	(M)
96	1,4-DICHLOROBENZENE-D4	152	10.326	10.224	(1.000)	804629	50.0000		
97	1,4-Dichlorobenzene	146	10.349	10.235	(1.002)	660079	24.4109	24.4	(M)
98	TOTAL XYLENE	106				1426657	86.1433	86.1	
99	n-Butylbenzene	91	10.653	10.539	(1.032)	966859	28.9118	28.9	
101	1,2-Dichlorobenzene	146	10.767	10.665	(1.043)	597323	25.1836	25.2	
105	1,2-Dibromo-3-Chloropropane	157	11.541	11.445	(1.118)	133552	24.7940	24.8	
107	1,2,4-Trichlorobenzene	180	12.292	12.190	(1.190)	338758	32.6719	32.7	
108	Hexachlorobutadiene	225	12.389	12.281	(1.200)	274502	27.1211	27.1	
109	Naphthalene	128	12.555	12.442	(1.216)	607304	35.6276	35.6	
110	1,2,3-Trichlorobenzene	180	12.796	12.694	(1.239)	334351	34.7715	34.8	

QC Flag Legend

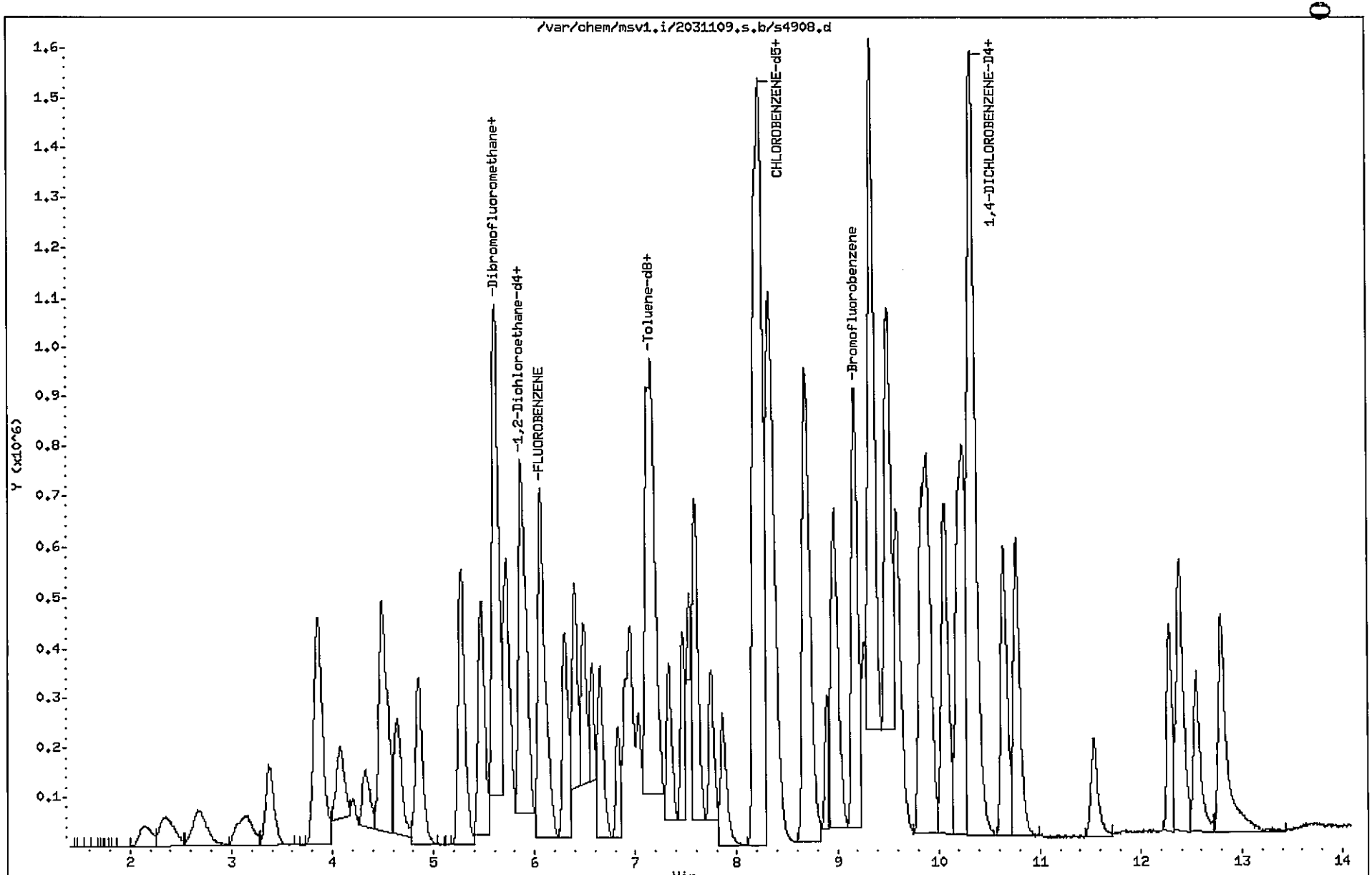
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/msv1.i/2031109.s.b/s4908.d
Date : 09-NOV-2003 10:07
Client ID: LCS for HBN 265120
Sample Info: 129374*LCS for HBN 265120 [MSV/3964]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv1.i

Operator: RSP
Column diameter: 0.53

000366

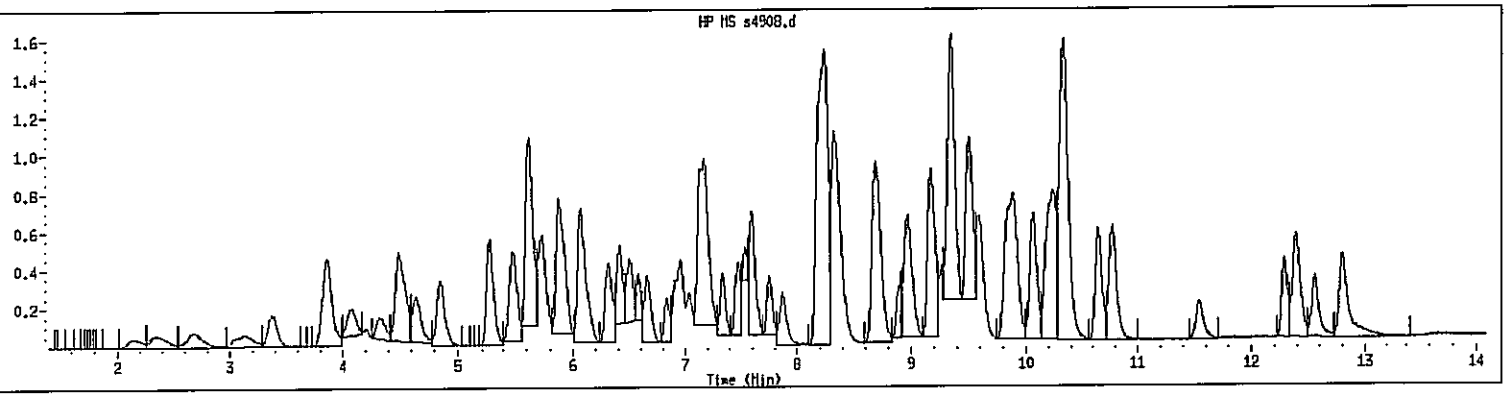


Data file : /var/chem/msv1.i/2031109.s.b/s4908.d
Report Date: 11/09/2003 15:09

MANUAL INTEGRATION GRAPHIC REPORT

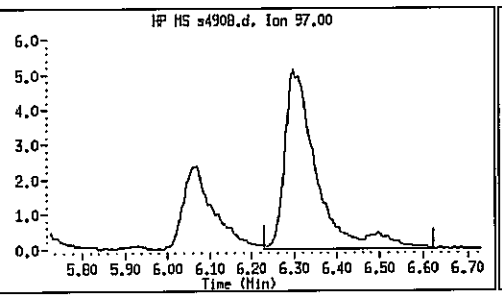
Lab ID : 129374
Injection Date: 09-NOV-2003 10:07
Operator : RSP
Sample Info : 129374*LCS for HBN 265120 [MSV/3964]
Misc Info : MSV~3964~*1*RSP
Method : /var/chem/msv1.i/2031109.s.b/8260Bw1.m
Dilution : 1.0
Matrix : WATER
Integrator : HP RTE

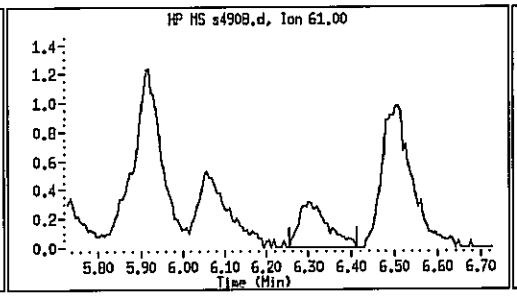
SampleType : LCS
Instrument : msv1.i
Compound Sublist: 8260b

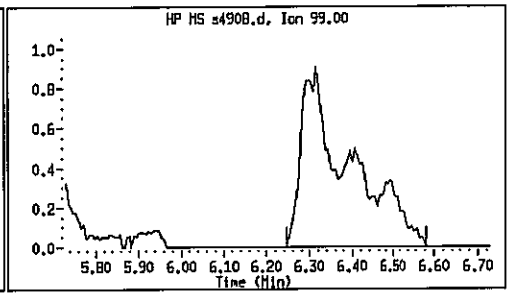


CONCENTRATIONS

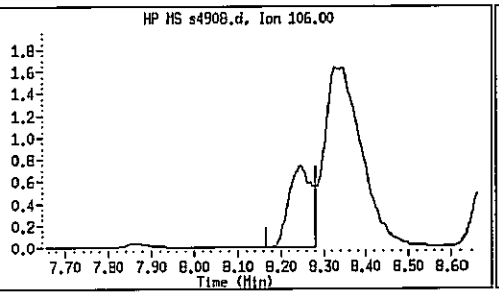
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
37 1,1,1-Trichloroethane				CAS#: 71-55-6			
5.297	1.038	97	267134	18	18	80-120	100
5.303	1.039	61	14847			5- 7	6
5.314	1.041	99	71431			16- 24	27

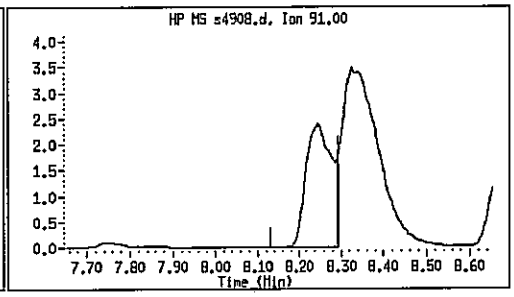




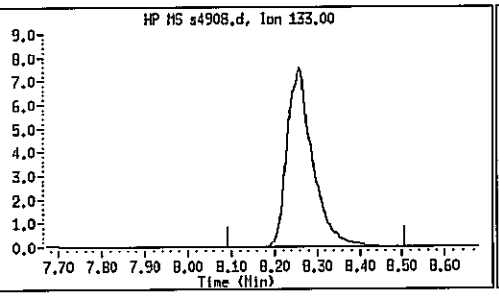


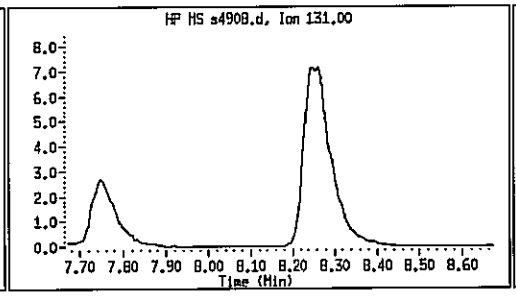
RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS AMT	CONC	RANGE	RATIO
72 Ethylbenzene +			CAS#: 100-41-4				
.246	1.008	106	274352	25	25	80-120	100
.246	1.008	91	1016264			821-1232	370

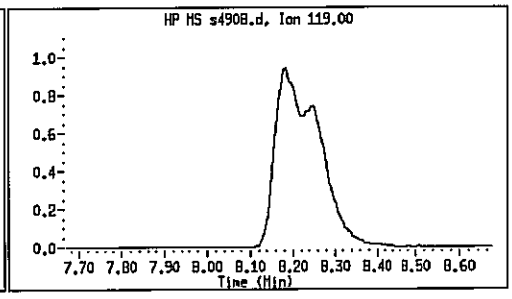




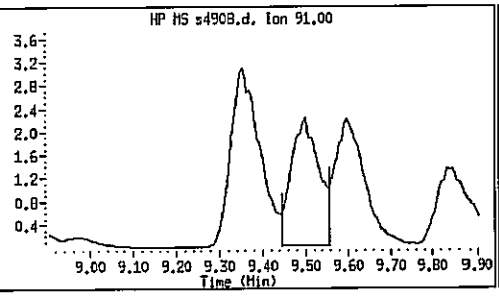
73 1,1,1,2-Tetrachloroethane				CAS#: 630-20-6			
.257	1.009	133	309521	28	28	80-120	100
.172	0.999	131	0			83-124	0
.172	0.999	119	0			115-173	0

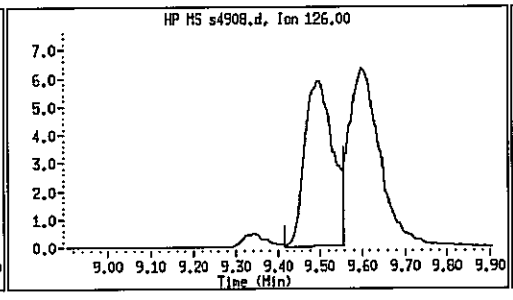


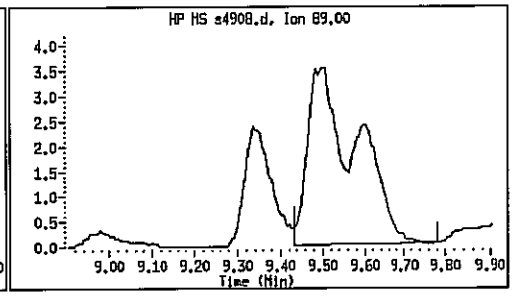




86 2-Chlorotoluene				CAS#: 95-49-8			
.501	0.920	91	1031329	26	26	80-120	100
.501	0.920	126	273649			23- 34	27
.501	0.920	89	282444			22- 33	27

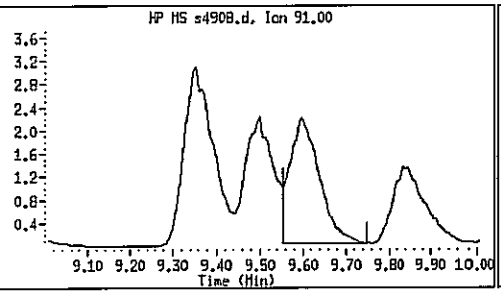


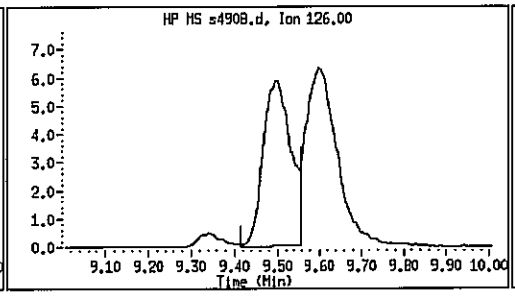


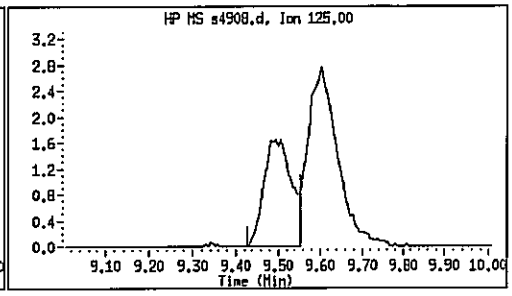


CONCENTRATIONS

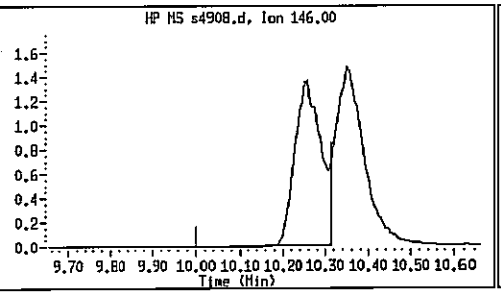
RT	(REL RT)	MASS	RESPONSE	AMT	CONC	RANGE	RATIO
89 4-Chlorotoluene			CAS#: 106-43-4				
9.598	0.930	91	1044828	26	26	80-120	100
9.501	0.920	126	273653			23- 35	26
9.506	0.921	125	74720			6- 10	7

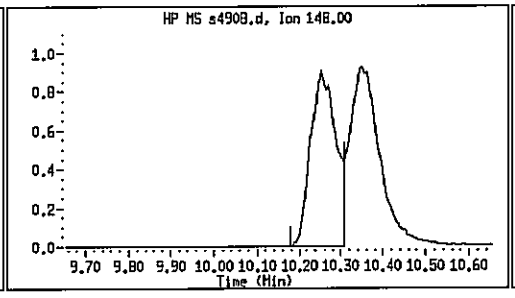


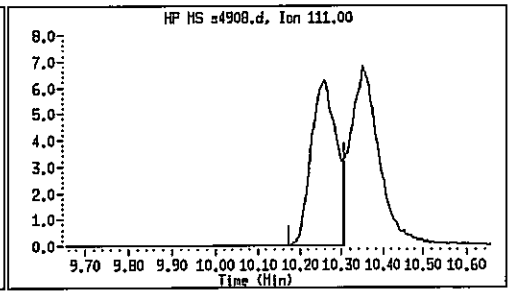




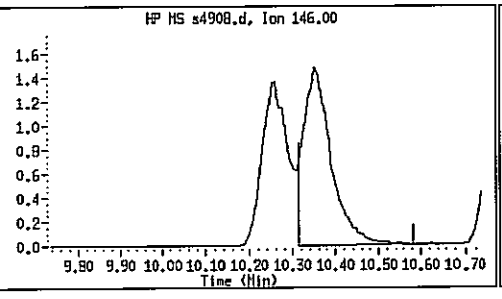
95 1,3-Dichlorobenzene			CAS#: 541-73-1				
10.257	0.993	146	583892	27	27	80-120	100
10.251	0.993	148	376578			57- 85	64
10.257	0.993	111	258903			79-118	44

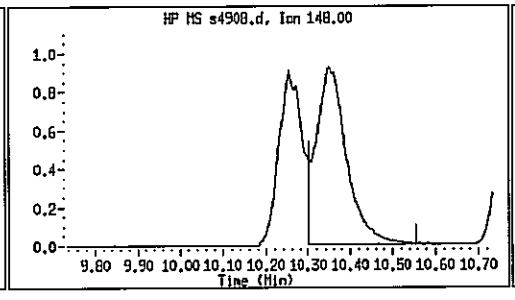


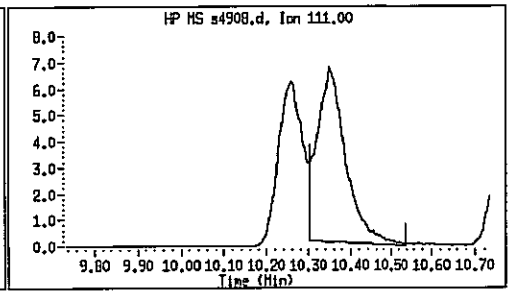




97 1,4-Dichlorobenzene			CAS#: 106-46-7				
10.349	1.002	146	660079	24	24	80-120	100
10.349	1.002	148	464637			55- 82	70
10.349	1.002	111	312760			77-115	47







Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv2.i/2031110.s.b/t0400.d
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Inj Date : 10-NOV-2003 09:12
Operator : CBL Inst ID: msv2.i
Smp Info : 129601*LCS for HBN 265163 [MSV/3969]
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 3 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
1 Dichlorodifluoromethane	85	1.384	1.381	(0.238)	171926	21.4186	1070
23 Hexane	57	3.979	3.976	(0.683)	136451	22.0561	1100
2 Chloromethane ++	50	1.536	1.533	(0.264)	171852	21.4976	1070
3 Vinyl Chloride +	62	1.622	1.619	(0.278)	128157	23.3719	1170
5 Bromomethane	94	1.912	1.909	(0.328)	94146	24.0418	1200
6 Chloroethane	64	2.005	2.002	(0.344)	79970	24.2344	1210
7 Trichlorofluoromethane	101	2.242	2.239	(0.385)	169340	22.5081	1130
10 1,1-Dichloroethene +	96	2.757	2.754	(0.473)	92806	23.1830	1160
11 1,1,2Trichlotrifluoroethane	101	2.770	2.767	(0.475)	116502	23.8512	1190
12 Acetone	43	2.823	2.827	(0.484)	25540	24.7787	1240
13 Methyl Iodide	142	2.916	2.919	(0.500)	246162	26.8416	1340
14 Carbon Disulfide	76	2.988	2.992	(0.513)	348950	23.2790	1160
18 Methylene Chloride	49	3.312	3.315	(0.568)	134560	23.6748	1180

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
20 Acrylonitrile	53	3.609	3.612	(0.619)	104012	109.654	5480
21 trans-1,2-Dichloroethene	61	3.649	3.645	(0.626)	135237	22.4662	1120
15 Methyl Acetate	43	3.219	3.216	(0.552)	52209	22.1200	1110
22 MTBE	73	3.682	3.685	(0.632)	204715	21.6022	1080
24 1,1-Dichloroethane ++	63	4.117	4.114	(0.707)	197367	18.3179	916
25 Vinyl Acetate	43	3.979	3.976	(0.683)	96136	22.3701	1120
30 2,2-Dichloropropane	77	4.731	4.728	(0.812)	240259	22.2356	1110
31 cis-1,2-Dichloroethene	61	4.731	4.728	(0.812)	278613	21.3766	1070
32 2-Butanone	43	4.771	4.774	(0.819)	54322	21.7449	1090
36 Bromochloromethane	128	4.962	4.966	(0.852)	98508	21.9698	1100
37 Chloroform +	83	5.048	5.052	(0.866)	313454	21.9325	1100
38 Dibromofluoromethane	111	5.200	5.197	(0.892)	430702	49.2256	2460
39 1,1,1-Trichloroethane	97	5.226	5.223	(0.897)	261183	22.1475	1110
42 1,1-Dichloropropene	75	5.385	5.382	(0.924)	230026	21.8941	1090
43 Carbon Tetrachloride	117	5.385	5.388	(0.924)	233294	22.2802	1110
44 1,2-Dichloroethane-d4	67	5.510	5.514	(0.946)	206300	50.0467	2500
45 Benzene	78	5.570	5.573	(0.956)	762683	22.0627	1100
46 1,2-Dichloroethane	62	5.583	5.580	(0.958)	225092	22.6830	1130
47 FLUOROBENZENE	96	5.827	5.824	(1.000)	1546183	50.0000	
48 Trichloroethene	130	6.151	6.154	(1.056)	190754	20.7340	1040
49 Methyl Cyclohexane	83	6.322	6.326	(1.085)	318778	22.9085	1150
50 1,2-Dichloropropane +	63	6.336	6.339	(1.087)	215532	22.5210	1130
51 Dibromomethane	93	6.441	6.438	(1.105)	103875	22.4001	1120
54 Bromodichloromethane	83	6.573	6.570	(1.128)	218746	21.9265	1100
55 2-Chloroethyl vinyl ether	63	6.837	6.834	(1.173)	304701	21.2175	1060
139 1 Bromo-2-chloroethane	144	6.837	6.841	(0.819)	26145	23.0099	1150
56 cis-1,3-Dichloropropene	75	6.950	6.946	(1.193)	270668	21.3752	1070
57 4-methyl-2-pentanone	43	7.075	7.079	(1.214)	106974	23.2152	1160
58 Toluene-d8	98	7.181	7.178	(0.860)	1418534	51.7416	2590
59 Toluene +	91	7.233	7.230	(0.866)	808297	21.9050	1100
60 trans-1,3-Dichloropropene	75	7.398	7.395	(0.886)	234700	21.4974	1070
62 1,1,2-Trichloroethane	97	7.550	7.547	(0.904)	147356	22.7817	1140
64 1,3-Dichloropropane	76	7.689	7.686	(0.921)	261626	22.3542	1120
65 Tetrachloroethene	164	7.689	7.692	(0.921)	156445	22.2184	1110
66 2-Hexanone	43	7.755	7.752	(0.929)	75674	23.3258	1170
68 Dibromochloromethane	129	7.874	7.877	(0.943)	184201	22.8348	1140
69 1,2-Dibromoethane(EDB)	107	7.973	7.976	(0.955)	147486	22.3920	1120
70 CHLOROBENZENE-d5	82	8.349	8.346	(1.000)	562808	50.0000	
71 Chlorobenzene ++	112	8.376	8.372	(1.003)	577684	21.9165	1100
72 1,1,1,2-Tetrachloroethane	133	8.428	8.425	(1.009)	183644	22.4654	1120
73 Ethylbenzene +	106	8.455	8.452	(1.013)	278367	21.7661	1090
74 p,m-Xylene	106	8.547	8.544	(1.024)	689448	43.4638	2170
76 o-Xylene	106	8.864	8.861	(1.062)	316975	22.1107	1110
77 Styrene	104	8.871	8.868	(1.062)	568035	22.4825	1120
78 Bromoform ++	173	9.023	9.019	(1.081)	108141	23.4188	1170
79 Isopropylbenzene	105	9.148	9.145	(1.096)	788993	22.5542	1130
81 Bromofluorobenzene	174	9.280	9.277	(0.913)	419639	44.3128	2220

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
84 1,1,2,2-Tetrachloroethane++	83	9.359	9.363	(0.921)	171331	22.8803	1140
85 trans-1,4-Dichloro-2-Butene	53	9.405	9.402	(0.925)	42687	22.2167	1110
86 1,2,3-Trichloropropane	75	9.405	9.402	(0.925)	203841	21.6039	1080
87 Bromobenzene	77	9.405	9.402	(0.925)	382739	21.2095	1060
75 Total 1,2-Dichloroethene	61				413850	43.8428	2190
88 n-Propylbenzene	91	9.478	9.468	(0.932)	976271	20.8805	1040
89 2-Chlorotoluene	91	9.557	9.554	(0.940)	533277	19.4636	973
90 1,3,5-Trimethylbenzene	105	9.604	9.600	(0.945)	682293	21.3673	1070
91 4-Chlorotoluene	91	9.637	9.633	(0.948)	663201	20.8348	1040
92 tert-butylbenzene	91	9.868	9.858	(0.971)	416314	20.8710	1040
93 1,2,4-Trimethylbenzene	105	9.894	9.898	(0.973)	627403	19.9682	998
96 sec-Butylbenzene	105	10.026	10.023	(0.986)	865236	22.0688	1100
97 p-Isopropyltoluene	119	10.125	10.122	(0.996)	720499	21.3123	1070
98 1,3-Dichlorobenzene	146	10.125	10.122	(0.996)	407692	21.5545	1080
99 1,4-DICHLOROBENZENE-D4	152	10.165	10.168	(1.000)	541564	50.0000	
100 1,4-Dichlorobenzene	146	10.184	10.181	(1.002)	410639	21.5167	1080
101 n-Butylbenzene	91	10.416	10.412	(1.025)	472255	17.2336	862(R)
102 1,2-Dichlorobenzene	146	10.455	10.452	(1.029)	364991	22.0681	1100
103 1,2-Dibromo-3-Chloropropane	157	10.977	10.980	(1.080)	23677	21.0933	1050
105 1,2,4-Trichlorobenzene	180	11.538	11.535	(1.135)	176443	23.1291	1160
106 Hexachlorobutadiene	225	11.637	11.634	(1.145)	115642	24.6998	1230
107 Napthalene	128	11.703	11.706	(1.151)	319412	26.5769	1330
108 1,2,3-Trichlorobenzene	180	11.868	11.865	(1.168)	167450	24.4535	1220
109 TOTAL XYLENE	106				1006423	65.5745	3280
40 Cyclohexane	56	5.279	5.283	(0.906)	353391	22.3192	1120

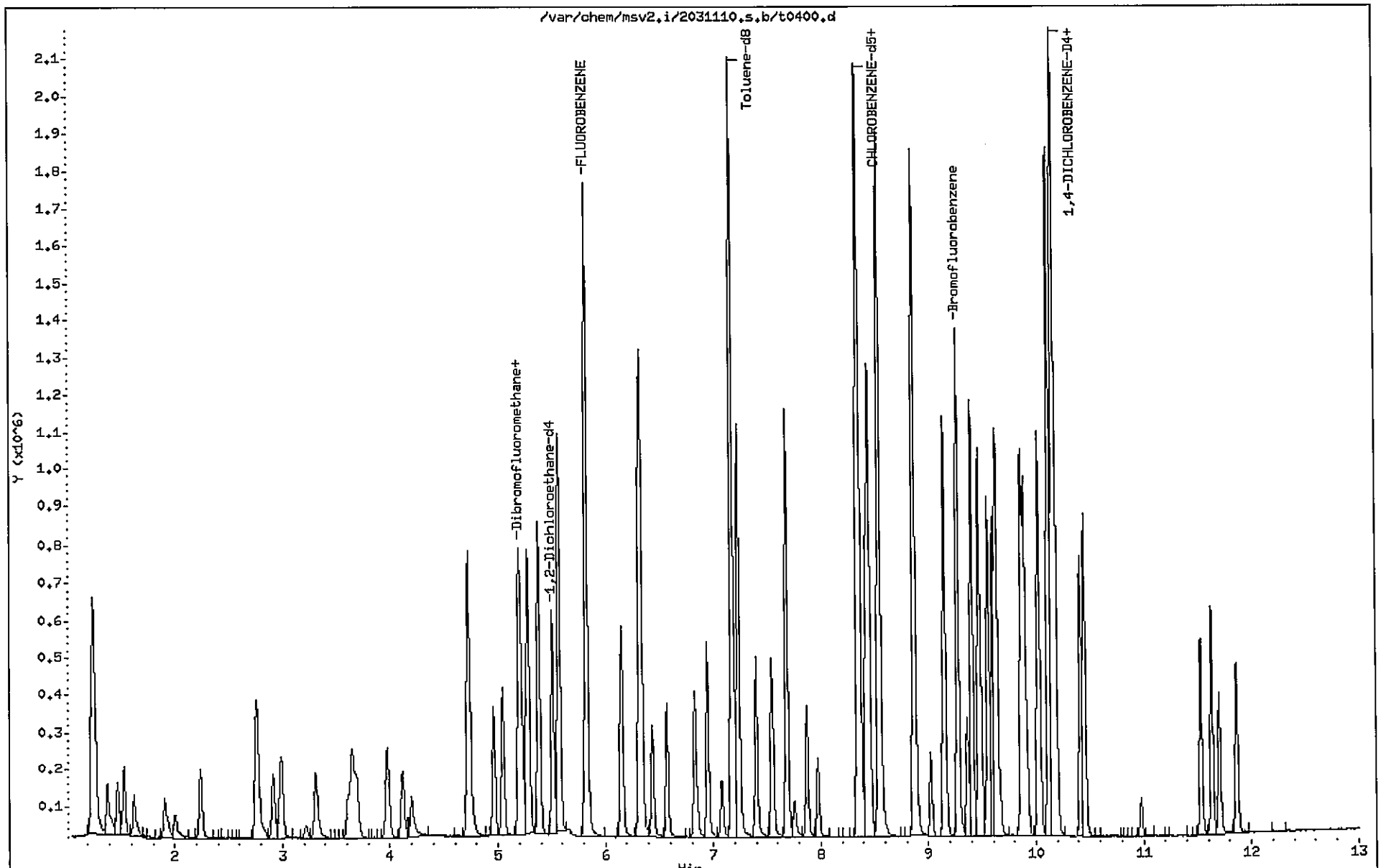
QC Flag Legend

R - Spike/Surrogate failed recovery limits.

000373

Data File: /var/chem/msv2.i/2031110.s.b/t0400.d
Date : 10-NOV-2003 09:12
Client ID: LCS for HBN 265163
Sample Info: 129601*LCS for HBN 265163 [MSV/3969]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i
Operator: CBL
Column diameter: 0.53



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Data file : /var/chem/msv2.i/2031110.s.b/t0401.d
Lab Smp Id: 129603 Client Smp ID: LCSD for HBN 265163
Inj Date : 10-NOV-2003 09:36
Operator : CBL Inst ID: msv2.i
Smp Info : 129603*LCSD for HBN 265163 [MSV/3969]
Misc Info : MSV~3969~*50*CBL
Comment :
Method : /var/chem/msv2.i/2031110.s.b/8260Bw2.m
Meth Date : 10-Nov-2003 11:13 cbl Quant Type: ISTD
Cal Date : 07-NOV-2003 13:10 Cal File: t0289.d
Als bottle: 4 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)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
1 Dichlorodifluoromethane	85	1.384	1.381	(0.237)	163539	21.2807	1060
23 Hexane	57	3.978	3.976	(0.683)	130377	22.0124	1100
2 Chloromethane ++	50	1.536	1.533	(0.264)	159675	20.8635	1040
3 Vinyl Chloride +	62	1.622	1.619	(0.278)	118058	22.4886	1120
5 Bromomethane	94	1.912	1.909	(0.328)	86079	22.9603	1150
6 Chloroethane	64	2.004	2.002	(0.344)	78121	24.7279	1240
7 Trichlorofluoromethane	101	2.242	2.239	(0.385)	162433	22.5511	1130
10 1,1-Dichloroethene +	96	2.757	2.754	(0.473)	87382	22.7997	1140
11 1,1,2Trichlotrifluoroethane	101	2.777	2.767	(0.477)	109923	23.5061	1180
12 Acetone	43	2.830	2.827	(0.486)	24620	24.9663	1250
13 Methyl Iodide	142	2.922	2.919	(0.501)	224835	25.6074	1280
14 Carbon Disulfide	76	2.995	2.992	(0.514)	324155	22.5875	1130
18 Methylene Chloride	49	3.318	3.315	(0.569)	125712	23.1027	1160

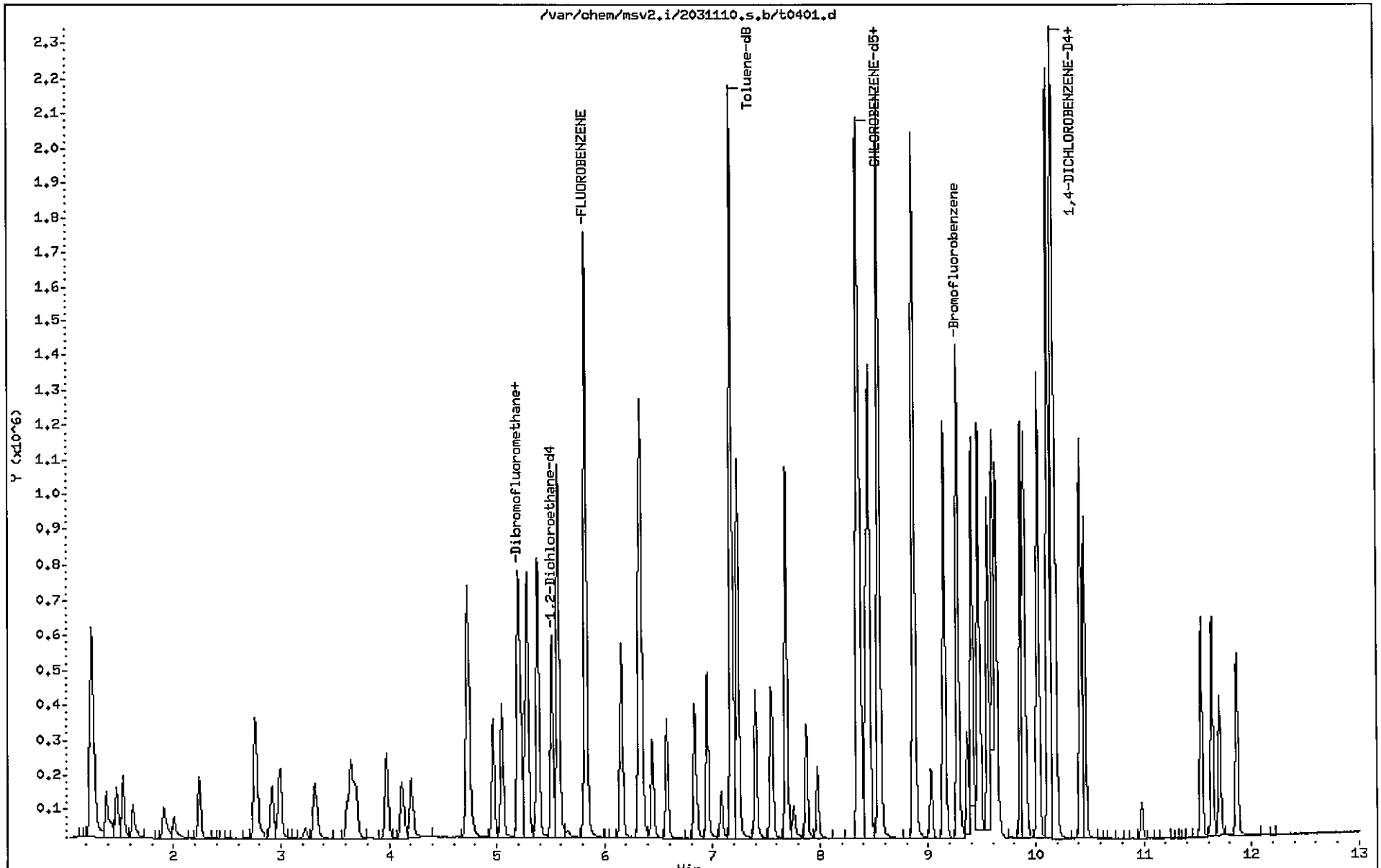
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
20 Acrylonitrile	53	3.615	3.612	(0.620)	101137	111.370	5570
21 trans-1,2-Dichloroethene	61	3.655	3.645	(0.627)	128731	22.3373	1120
15 Methyl Acetate	43	3.226	3.216	(0.554)	49844	22.0580	1100
22 MTBE	73	3.695	3.685	(0.634)	190079	20.9507	1050
24 1,1-Dichloroethane ++	63	4.117	4.114	(0.707)	204757	19.8497	992
25 Vinyl Acetate	43	3.978	3.976	(0.683)	90010	21.8769	1090
30 2,2-Dichloropropane	77	4.731	4.728	(0.812)	231166	22.3464	1120
31 cis-1,2-Dichloroethene	61	4.731	4.728	(0.812)	269023	21.5596	1080
32 2-Butanone	43	4.777	4.774	(0.820)	51098	21.3649	1070
36 Bromochloromethane	128	4.969	4.966	(0.853)	96374	22.4507	1120
37 Chloroform +	83	5.055	5.052	(0.867)	301776	22.0553	1100
38 Dibromofluoromethane	111	5.206	5.197	(0.893)	414415	49.4726	2470
39 1,1,1-Trichloroethane	97	5.226	5.223	(0.897)	254646	22.5543	1130
42 1,1-Dichloropropene	75	5.385	5.382	(0.924)	220960	21.9673	1100
43 Carbon Tetrachloride	117	5.391	5.388	(0.925)	225824	22.5268	1130
44 1,2-Dichloroethane-d4	67	5.517	5.514	(0.947)	197065	49.9345	2500
45 Benzene	78	5.576	5.573	(0.957)	735328	22.2182	1110
46 1,2-Dichloroethane	62	5.583	5.580	(0.958)	213531	22.4758	1120
47 FLUOROBENZENE	96	5.827	5.824	(1.000)	1480289	50.0000	
48 Trichloroethene	130	6.157	6.154	(1.057)	185989	21.1160	1060
49 Methyl Cyclohexane	83	6.329	6.326	(1.086)	304758	22.8821	1140
50 1,2-Dichloropropane +	63	6.342	6.339	(1.088)	209653	22.8819	1140
51 Dibromomethane	93	6.441	6.438	(1.105)	101682	22.9032	1150
54 Bromodichloromethane	83	6.580	6.570	(1.129)	213375	22.3402	1120
55 2-Chloroethyl vinyl ether	63	6.837	6.834	(1.173)	290292	21.1139	1060
139 1 Bromo-2-chloroethane	144	6.844	6.841	(0.820)	24775	22.4471	1120
56 cis-1,3-Dichloropropene	75	6.956	6.946	(1.194)	258014	21.2829	1060
57 4-methyl-2-pentanone	43	7.081	7.079	(1.215)	95909	22.1572	1110
58 Toluene-d8	98	7.180	7.178	(0.860)	1376638	51.6940	2580
59 Toluene +	91	7.240	7.230	(0.867)	786270	21.9363	1100
60 trans-1,3-Dichloropropene	75	7.405	7.395	(0.887)	217742	20.5321	1030
62 1,1,2-Trichloroethane	97	7.550	7.547	(0.904)	140360	22.3399	1120
64 1,3-Dichloropropane	76	7.689	7.686	(0.921)	248715	21.8776	1090
65 Tetrachloroethene	164	7.695	7.692	(0.922)	149808	21.9031	1100
66 2-Hexanone	43	7.755	7.752	(0.929)	68057	22.1146	1110
68 Dibromochloromethane	129	7.880	7.877	(0.944)	171505	21.8878	1090
69 1,2-Dibromoethane(EDB)	107	7.979	7.976	(0.956)	137824	21.5421	1080
70 CHLOROBENZENE-d5	82	8.349	8.346	(1.000)	546689	50.0000	
71 Chlorobenzene ++	112	8.375	8.372	(1.003)	566350	22.1201	1110
72 1,1,1,2-Tetrachloroethane	133	8.435	8.425	(1.010)	172141	21.6791	1080
73 Ethylbenzene +	106	8.455	8.452	(1.013)	277420	22.3316	1120
74 p,m-Xylene	106	8.547	8.544	(1.024)	685262	44.4736	2220
76 o-Xylene	106	8.864	8.861	(1.062)	321910	22.9590	1150
77 Styrene	104	8.870	8.868	(1.062)	577187	23.3437	1170
78 Bromoform ++	173	9.029	9.019	(1.081)	97920	21.8306	1090
79 Isopropylbenzene	105	9.148	9.145	(1.096)	795008	23.2210	1160
81 Bromofluorobenzene	174	9.280	9.277	(0.913)	421691	43.4925	2170

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (UG/KG)
84	1,1,2,2-Tetrachloroethane++	83	9.366	9.363	(0.921)	162482	21.1933	1060
85	trans-1,4-Dichloro-2-Butene	53	9.405	9.402	(0.925)	40292	20.4819	1020
86	1,2,3-Trichloropropane	75	9.412	9.402	(0.926)	193490	20.0293	1000
87	Bromobenzene	77	9.412	9.402	(0.926)	380646	20.6023	1030
75	Total 1,2-Dichloroethene	61				397754	43.8969	2190
88	n-Propylbenzene	91	9.471	9.468	(0.932)	1003960	20.9727	1050
89	2-Chlorotoluene	91	9.557	9.554	(0.940)	598374	21.3309	1070
90	1,3,5-Trimethylbenzene	105	9.603	9.600	(0.945)	711991	21.7781	1090
91	4-Chlorotoluene	91	9.636	9.633	(0.948)	697430	21.3999	1070
92	tert-butylbenzene	91	9.867	9.858	(0.971)	433594	21.2311	1060
93	1,2,4-Trimethylbenzene	105	9.900	9.898	(0.974)	717549	22.3055	1120
96	sec-Butylbenzene	105	10.026	10.023	(0.986)	904650	22.4481	1120
97	p-Isopropyltoluene	119	10.125	10.122	(0.996)	793474	22.6080	1130
98	1,3-Dichlorobenzene	146	10.125	10.122	(0.996)	417285	21.5479	1080
99	1,4-DICHLOROBENZENE-D4	152	10.164	10.168	(1.000)	554476	50.0000	
100	1,4-Dichlorobenzene	146	10.184	10.181	(1.002)	423909	21.6948	1080
101	n-Butylbenzene	91	10.415	10.412	(1.025)	641514	22.8651	1140
102	1,2-Dichlorobenzene	146	10.455	10.452	(1.029)	370080	21.8547	1090
103	1,2-Dibromo-3-Chloropropane	157	10.983	10.980	(1.081)	24271	21.1189	1060
105	1,2,4-Trichlorobenzene	180	11.538	11.535	(1.135)	202430	25.2595	1260
106	Hexachlorobutadiene	225	11.637	11.634	(1.145)	117915	24.5988	1230
107	Napthalene	128	11.709	11.706	(1.152)	333269	27.0841	1350
108	1,2,3-Trichlorobenzene	180	11.868	11.865	(1.168)	187699	26.3512	1320
109	TOTAL XYLENE	106				1007172	67.4327	3370
40	Cyclohexane	56	5.286	5.283	(0.907)	344172	22.6476	1130

Data File: /var/chem/msv2.i/2031110.s.b/t0401.d
Date : 10-NOV-2003 09:36
Client ID: LCSD for HBN 265163
Sample Info: 129603*LCSD for HBN 265163 [MSV/3969]
Purge Volume: 5.0
Column phase: DB-624-30M

Instrument: msv2.i
Operator: CBL
Column diameter: 0.53

000377



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6858ms.d
Lab Smp Id: 20311062416 Client Smp ID: 86-MS-S-1105-03
Inj Date : 08-NOV-2003 12:11
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062416*86-MS-S-1105-03
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:53 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/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	5.26000	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	2.125	2.135	(0.320)	64338	21.6887	20.6	499
2 Chloromethane ++	50	2.362	2.366	(0.356)	105205	25.3590	24.1	6237
3 Vinyl Chloride +	62	2.493	2.497	(0.375)	85906	22.1631	21.1	4487
4 Bromomethane	94	2.908	2.919	(0.438)	47425	23.8789	22.7	6809
5 Chloroethane	64	3.053	3.057	(0.460)	49453	22.4639	21.4	3991
6 Trichlorofluoromethane	101	3.336	3.340	(0.502)	79095	22.9904	21.9	8051
7 Acrolein	56	3.922	3.919	(0.591)	53876	117.426	112	3544
9 1,1,2Trichlotrifluoroethane	101	3.929	3.932	(0.592)	61070	22.5348	21.4	4649
8 1,1-Dichloroethene +	96	3.961	3.965	(0.597)	53289	22.5719	21.5	8704
10 Acetone	43	4.087	4.090	(0.615)	39318	20.4970	19.5	6493
11 Methyl Iodide	142	4.159	4.156	(0.626)	43743	20.1674	19.2	9321
12 Carbon Disulfide	76	4.198	4.202	(0.632)	231107	22.5926	21.5	8809
106 Methyl Acetate	43	4.409	4.406	(0.664)	73413	28.6827	27.3	1696

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.541	4.538	(0.684)	104311	18.8531	17.9	9538
14 Acrylonitrile	53	4.844	4.841	(0.729)	136262	122.689	117	6875
15 trans-1,2-Dichloroethene	61	4.765	4.762	(0.717)	96855	22.5558	21.4	8849
16 MTBE	73	4.745	4.742	(0.714)	180074	23.1737	22.0	4273
17 Hexane	57	4.955	4.953	(0.746)	128998	23.8692	22.7	5105
19 Vinyl Acetate	43	4.955	4.953	(0.746)	94434	23.2874	22.1	
18 1,1-Dichloroethane ++	63	5.206	5.209	(0.784)	147780	24.2035	23.0	6180
22 2-Butanone	43	5.739	5.736	(0.864)	57609	24.1193	22.9	
21 cis-1,2-Dichloroethene	61	5.726	5.723	(0.862)	133272	24.0166	22.8	8240
20 2,2-Dichloropropane	77	5.706	5.703	(0.859)	101872	23.6283	22.5	8402
23 Bromochloromethane	128	5.936	5.934	(0.894)	34611	26.0476	24.8	9236
24 Chloroform +	83	5.982	5.980	(0.901)	126994	23.4337	22.3	9200
25 Dibromofluoromethane	111	6.114	6.118	(0.921)	151076	52.7854	50.2	9384
26 1,1,1-Trichloroethane	97	6.114	6.118	(0.921)	101430	24.0599	22.9	8814
105 Cyclohexane	56	6.108	6.111	(0.920)	173897	25.0710	23.8	9355
27 1,1-Dichloropropene	75	6.246	6.243	(0.941)	100339	24.6052	23.4	6759
28 Carbon Tetrachloride	117	6.226	6.223	(0.938)	76578	23.8632	22.7	8739
32 1,2-Dichloroethane-d4	67	6.417	6.414	(0.966)	79475	49.6130	47.2	8104
33 Benzene	78	6.410	6.414	(0.965)	311853	25.5351	24.3	8561
34 1,2-Dichloroethane	62	6.476	6.473	(0.975)	96254	23.1441	22.0	6411
35 FLUOROBENZENE	96	6.641	6.638	(1.000)	556359	50.0000		9589
36 Trichloroethene	130	6.904	6.908	(1.040)	67998	24.5039	23.3	9192
40 Methyl cyclohexane	83	7.016	7.013	(1.056)	130000	24.7587	23.5	5695
37 1,2-Dichloropropane +	63	7.121	7.119	(1.072)	87284	24.8391	23.6	8521
31 Total 1,2-Dichloroethene	61				230127	46.7587	44.4	0
38 Dibromomethane	93	7.220	7.217	(1.087)	41473	25.2521	24.0	8861
39 Bromodichloromethane	83	7.312	7.309	(1.101)	90505	24.6604	23.4	9192
41 2-Chloroethyl vinyl ether	63	7.865	7.507	(1.184)	28530	20.7071	19.7	4957
42 1-Bromo-2-chloroethane	144	7.576	7.573	(1.141)	9894	26.9567	25.6	1355
44 cis-1,3-Dichloropropene	75	7.641	7.639	(1.151)	123369	24.5043	23.3	
45 4-methyl-2-pentanone	43	7.727	7.724	(1.164)	109368	27.7250	26.4	
46 Toluene-d8	98	7.813	7.810	(0.879)	533817	50.8886	48.4	8694
47 Toluene +	91	7.865	7.862	(0.884)	317654	23.0856	21.9	9227
51 trans-1,3-Dichloropropene	75	8.050	8.047	(0.905)	113606	22.2517	21.2	
52 1,1,2-Trichloroethane	97	8.194	8.192	(0.922)	58214	23.2721	22.1	8357
53 1,3-Dichloropropane	76	8.326	8.323	(0.936)	115938	23.1785	22.0	8594
54 Tetrachloroethene	164	8.254	8.251	(0.928)	50994	22.7061	21.6	5554
55 2-Hexanone	43	8.326	8.323	(0.936)	82039	22.7292	21.6	5678
56 Dibromochloromethane	129	8.477	8.481	(0.953)	62453	22.3631	21.3	9024
57 1,2-Dibromoethane(EDB)	107	8.596	8.593	(0.967)	59428	23.5933	22.4	5533
58 Chlorobenzene-d5	82	8.892	8.889	(1.000)	243274	50.0000		8963
59 Chlorobenzene ++	112	8.918	8.909	(1.003)	188413	21.8426	20.8	8605
60 1,1,1,2-Tetrachloroethane	133	8.965	8.962	(1.008)	57999	22.3556	21.3	9089
61 Ethylbenzene +	106	8.945	8.942	(1.006)	100866	22.1008	21.0	9356
62 p,m-Xylene	106	9.024	9.021	(1.015)	269605	46.0792	43.8	9377
63 o-Xylene	106	9.313	9.311	(1.047)	126760	22.7501	21.6	
64 Styrene	104	9.320	9.317	(1.048)	206558	20.3914	19.4	8643

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.498	9.495	(1.068)	38386	22.8567	21.7	8331
66 Isopropylbenzene	105	9.537	9.535	(1.073)	307552	21.7218	20.6	9396
67 Bromofluorobenzene	174	9.695	9.693	(1.090)	140868	46.5696	44.3	8472
68 1,1,2,2-Tetrachloroethane++	83	9.781	9.772	(0.934)	74169	27.3909	26.0	9155
69 trans-1,4-Dichloro-2-Butene	53	9.926	9.923	(0.948)	10769	24.4609	23.3	4546
70 1,2,3-Trichloropropane	75	9.827	9.824	(0.938)	98063	27.0464	25.7	6588
71 Bromobenzene	77	9.820	9.818	(0.938)	163614	23.8776	22.7	6773
72 n-Propylbenzene	91	9.814	9.811	(0.937)	381958	25.5916	24.3	7552
73 2-Chlorotoluene	91	9.926	9.916	(0.948)	240716	24.0712	22.9	8880(H)
74 1,3,5-Trimethylbenzene	105	9.926	9.923	(0.948)	254996	24.7606	23.5	
75 4-Chlorotoluene	91	9.998	9.995	(0.955)	222183	22.9295	21.8	8696
76 tert-butylbenzene	91	10.149	10.147	(0.969)	171348	24.0207	22.8	9028
77 1,2,4-Trimethylbenzene	105	10.189	10.180	(0.973)	231956	24.0355	22.8	
78 sec-Butylbenzene	105	10.294	10.285	(0.983)	303660	22.9646	21.8	
79 p-Isopropyltoluene	119	10.373	10.371	(0.991)	228764	22.8912	21.8	9138
80 1,3-Dichlorobenzene	146	10.426	10.423	(0.996)	114139	23.6608	22.5	
81 1,4-DICHLOROBENZENE-D4	152	10.472	10.463	(1.000)	154666	50.0000		9086
82 1,4-Dichlorobenzene	146	10.492	10.482	(1.002)	103562	21.3443	20.3	
83 n-Butylbenzene	91	10.650	10.640	(1.017)	198299	21.2609	20.2	9364
85 1,2-Dichlorobenzene	146	10.755	10.752	(1.027)	94105	21.6952	20.6	
86 1,2-Dibromo-3-Chloropropane	157	11.295	11.292	(1.079)	11128	26.5221	25.2	5913
84 TOTAL XYLENE	106				396365	68.8294	65.4	0
87 1,2,4-Trichlorobenzene	180	11.861	11.852	(1.133)	37393	14.1678	13.5	
88 Hexachlorobutadiene	225	11.914	11.904	(1.138)	23180	13.7348	13.1	9529(R)
89 Napthalene	128	12.078	12.069	(1.153)	62565	13.8897	13.2	8799
90 1,2,3-Trichlorobenzene	180	12.256	12.247	(1.170)	31264	12.8772	12.2	

QC Flag Legend

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

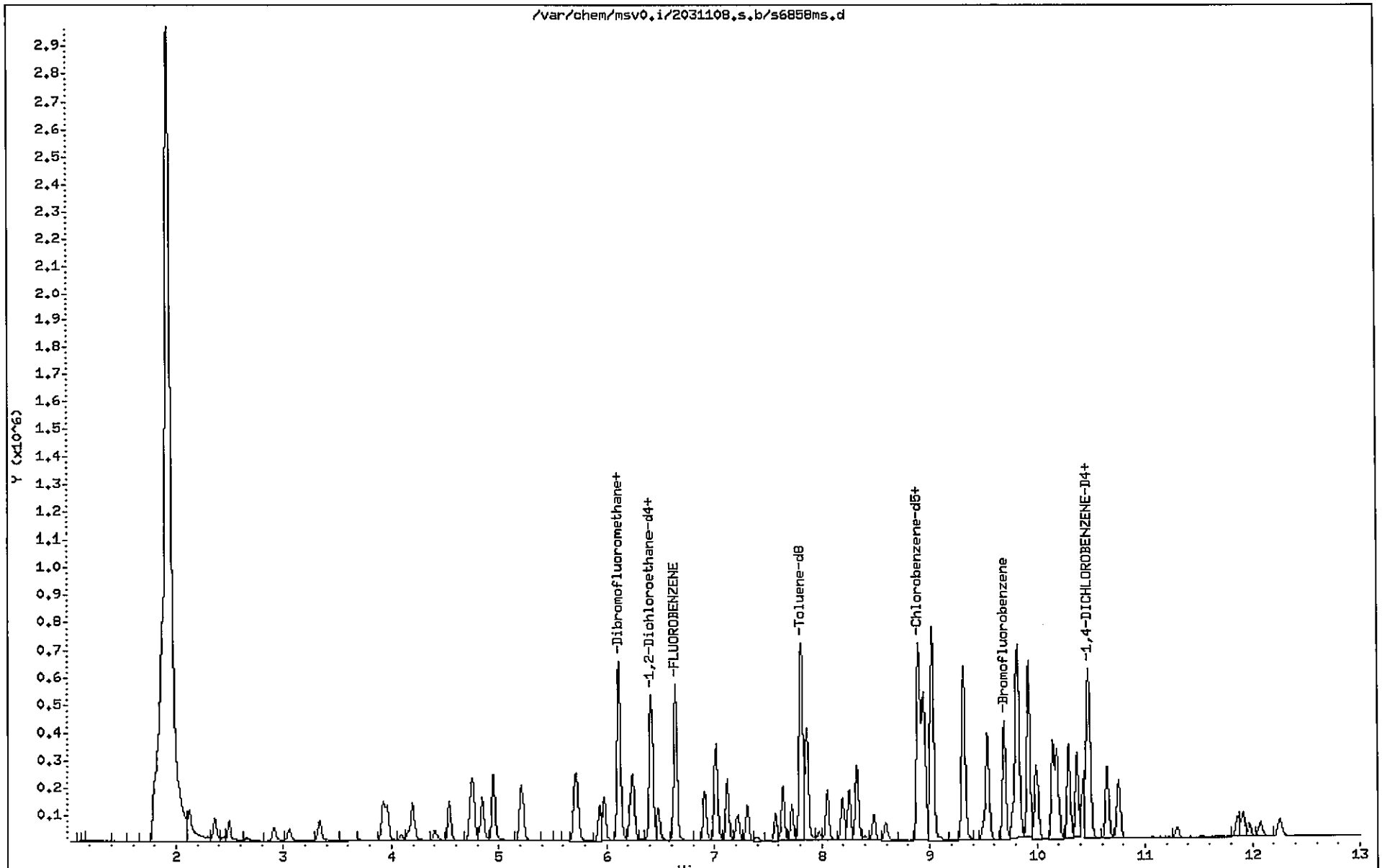
Data File: /var/chem/msv0.i/2031108.s.b/s6858ms.d
Date : 08-NOV-2003 12:11
Client ID: 86-MS-S-1105-03
Sample Info: 20311062416*86-MS-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000381



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/msv0.i/2031108.s.b/s6859msd.d
Lab Smp Id: 20311062417 Client Smp ID: 86-MSD-S-1105-03
Inj Date : 08-NOV-2003 12:33
Operator : KRV Inst ID: msv0.i
Smp Info : 20311062417*86-MSD-S-1105-03
Misc Info : MSV~3957~*1*KRV
Comment :
Method : /var/chem/msv0.i/2031108.s.b/8260Bs0.m
Meth Date : 10-Nov-2003 16:53 sab Quant Type: ISTD
Cal Date : 07-NOV-2003 11:09 Cal File: s6806.d
Als bottle: 4 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260b.sub
Target Version: 3.50
Processing Host: hpcs2

Concentration Formula: Amt * DF * (Uf/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	5.39000	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	2.131	2.135	(0.321)	66462	22.8388	21.2	577
2 Chloromethane ++	50	2.362	2.366	(0.356)	105977	26.0399	24.2	6237
3 Vinyl Chloride +	62	2.494	2.497	(0.375)	87443	22.9967	21.3	4487
4 Bromomethane	94	2.908	2.919	(0.438)	44239	22.7084	21.1	7035
5 Chloroethane	64	3.053	3.057	(0.460)	50668	23.5881	21.9	4019
6 Trichlorofluoromethane	101	3.336	3.340	(0.502)	80141	23.7457	22.0	8062
7 Acrolein	56	3.922	3.919	(0.591)	55723	123.804	115	3544
9 1,1,2Trichlotrifluoroethane	101	3.929	3.932	(0.592)	63052	23.7169	22.0	4615
8 1,1-Dichloroethene +	96	3.968	3.965	(0.598)	53769	23.2164	21.5	8751
10 Acetone	43	4.093	4.090	(0.616)	59483	39.1958	36.4	6493
11 Methyl Iodide	142	4.159	4.156	(0.626)	50098	23.5448	21.8	9205
12 Carbon Disulfide	76	4.199	4.202	(0.632)	238140	23.7312	22.0	8809
106 Methyl Acetate	43	4.409	4.406	(0.664)	64569	25.7161	23.9	1807

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
13 Methylene Chloride	49	4.541	4.538	(0.684)	106514	19.8459	18.4	9467
14 Acrylonitrile	53	4.844	4.841	(0.729)	144656	132.771	123	6875
15 trans-1,2-Dichloroethene	61	4.765	4.762	(0.717)	99305	23.5744	21.9	8849
16 MTBE	73	4.745	4.742	(0.714)	186464	24.4609	22.7	4185
17 Hexane	57	4.956	4.953	(0.746)	122405	23.0880	21.4	5137
19 Vinyl Acetate	43	4.956	4.953	(0.746)	90974	22.8688	21.2	
18 1,1-Dichloroethane ++	63	5.206	5.209	(0.784)	152532	25.4658	23.6	6188
22 2-Butanone	43	5.739	5.736	(0.864)	61408	26.5732	24.7	
21 cis-1,2-Dichloroethene	61	5.726	5.723	(0.862)	136241	25.0273	23.2	8240
20 2,2-Dichloropropane	77	5.706	5.703	(0.859)	100769	23.8253	22.1	8493
23 Bromochloromethane	128	5.936	5.934	(0.894)	35403	27.1598	25.2	9086
24 Chloroform +	83	5.983	5.980	(0.901)	128284	24.1303	22.4	9202
25 Dibromofluoromethane	111	6.121	6.118	(0.922)	148102	52.7488	48.9	9360
26 1,1,1-Trichloroethane	97	6.114	6.118	(0.921)	103047	24.9170	23.1	8766
105 Cyclohexane	56	6.108	6.111	(0.920)	174617	25.6626	23.8	9374
27 1,1-Dichloropropene	75	6.246	6.243	(0.941)	101993	25.4954	23.7	6776
28 Carbon Tetrachloride	117	6.226	6.223	(0.938)	78943	25.0767	23.3	8827
32 1,2-Dichloroethane-d4	67	6.417	6.414	(0.966)	78134	49.7209	46.1	8039
33 Benzene	78	6.417	6.414	(0.966)	313109	26.1347	24.2	8554
34 1,2-Dichloroethane	62	6.476	6.473	(0.975)	99286	24.3357	22.6	6411
35 FLUOROBENZENE	96	6.641	6.638	(1.000)	545785	50.0000		9569
36 Trichloroethene	130	6.911	6.908	(1.041)	71762	26.3613	24.5	9191
40 Methyl cyclohexane	83	7.016	7.013	(1.056)	121819	23.6501	21.9	5721
37 1,2-Dichloropropane +	63	7.121	7.119	(1.072)	88892	25.7868	23.9	8463
31 Total 1,2-Dichloroethene	61				235546	48.7870	45.3	0
38 Dibromomethane	93	7.220	7.217	(1.087)	43010	26.6953	24.8	8883
39 Bromodichloromethane	83	7.312	7.309	(1.101)	92451	25.6787	23.8	9218
41 2-Chloroethyl vinyl ether	63	7.576	7.507	(1.141)	113812	84.2054	78.1	3593(RH)
42 1-Bromo-2-chloroethane	144	7.582	7.573	(1.142)	10023	27.8372	25.8	1355
44 cis-1,3-Dichloropropene	75	7.641	7.639	(1.151)	126410	25.5948	23.7	
45 4-methyl-2-pentanone	43	7.727	7.724	(1.164)	116441	30.0899	27.9	
46 Toluene-d8	98	7.813	7.810	(0.879)	522275	51.4432	47.7	8706
47 Toluene +	91	7.865	7.862	(0.884)	325507	24.4426	22.7	9219
51 trans-1,3-Dichloropropene	75	8.050	8.047	(0.905)	117613	23.8022	22.1	
52 1,1,2-Trichloroethane	97	8.194	8.192	(0.922)	60611	25.0357	23.2	8368
53 1,3-Dichloropropane	76	8.326	8.323	(0.936)	120294	24.8487	23.1	8608
54 Tetrachloroethene	164	8.254	8.251	(0.928)	51239	23.5736	21.9	5540
55 2-Hexanone	43	8.326	8.323	(0.936)	88056	25.2071	23.4	5921
56 Dibromochloromethane	129	8.484	8.481	(0.954)	64663	23.9241	22.2	8938
57 1,2-Dibromoethane(EDB)	107	8.596	8.593	(0.967)	62182	25.5072	23.7	5533
58 Chlorobenzene-d5	82	8.892	8.889	(1.000)	235448	50.0000		9007
59 Chlorobenzene ++	112	8.919	8.909	(1.003)	191907	22.9871	21.3	8604
60 1,1,1,2-Tetrachloroethane	133	8.965	8.962	(1.008)	58261	23.2030	21.5	9041
61 Ethylbenzene +	106	8.945	8.942	(1.006)	101981	23.0878	21.4	9379
62 p,m-Xylene	106	9.024	9.021	(1.015)	274998	48.5632	45.0	9339
63 o-Xylene	106	9.314	9.311	(1.047)	126719	23.4987	21.8	
64 Styrene	104	9.320	9.317	(1.048)	213516	21.7789	20.2	8643

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb)	FINAL (ug/Kg)	SIMILARITY
65 Bromoform ++	173	9.505	9.495	(1.069)	40058	24.6451	22.9	8386
66 Isopropylbenzene	105	9.537	9.535	(1.073)	304373	22.2118	20.6	9384
67 Bromofluorobenzene	174	9.695	9.693	(1.090)	135778	46.3789	43.0	8420
68 1,1,2,2-Tetrachloroethane++	83	9.781	9.772	(0.934)	77578	29.7917	27.6	9135
69 trans-1,4-Dichloro-2-Butene	53	9.926	9.923	(0.948)	10498	24.7957	23.0	4475
70 1,2,3-Trichloropropane	75	9.827	9.824	(0.938)	102747	29.4677	27.3	6557
71 Bromobenzene	77	9.820	9.818	(0.938)	169005	25.6473	23.8	6860
72 n-Propylbenzene	91	9.820	9.811	(0.938)	377494	26.3006	24.4	7425
73 2-Chlorotoluene	91	9.926	9.916	(0.948)	240282	24.9855	23.2	8908(H)
74 1,3,5-Trimethylbenzene	105	9.926	9.923	(0.948)	245357	24.7742	23.0	
75 4-Chlorotoluene	91	9.998	9.995	(0.955)	227737	24.4394	22.7	8693
76 tert-butylbenzene	91	10.150	10.147	(0.969)	164269	23.9461	22.2	9140
77 1,2,4-Trimethylbenzene	105	10.189	10.180	(0.973)	236333	25.4651	23.6	
78 sec-Butylbenzene	105	10.294	10.285	(0.983)	284817	22.3980	20.8	
79 p-Isopropyltoluene	119	10.373	10.371	(0.991)	216326	22.5093	20.9	9086
80 1,3-Dichlorobenzene	146	10.433	10.423	(0.996)	115270	24.8686	23.1	
81 1,4-DICHLOROBENZENE-D4	152	10.472	10.463	(1.000)	148738	50.0000		9031
82 1,4-Dichlorobenzene	146	10.492	10.482	(1.002)	108647	23.2847	21.6	
83 n-Butylbenzene	91	10.650	10.640	(1.017)	193188	21.5385	20.0	9383
85 1,2-Dichlorobenzene	146	10.762	10.752	(1.028)	96796	23.2050	21.5	
86 1,2-Dibromo-3-Chloropropane	157	11.302	11.292	(1.079)	12235	30.3227	28.1	5737
84 TOTAL XYLENE	106				401717	72.0619	66.8	0
87 1,2,4-Trichlorobenzene	180	11.861	11.852	(1.133)	41992	16.5444	15.3	
88 Hexachlorobutadiene	225	11.920	11.904	(1.138)	20018	12.3339	11.4	9536(R)
89 Napthalene	128	12.078	12.069	(1.153)	83733	19.3300	17.9	8913
90 1,2,3-Trichlorobenzene	180	12.263	12.247	(1.171)	36111	15.4664	14.3	

QC Flag Legend

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

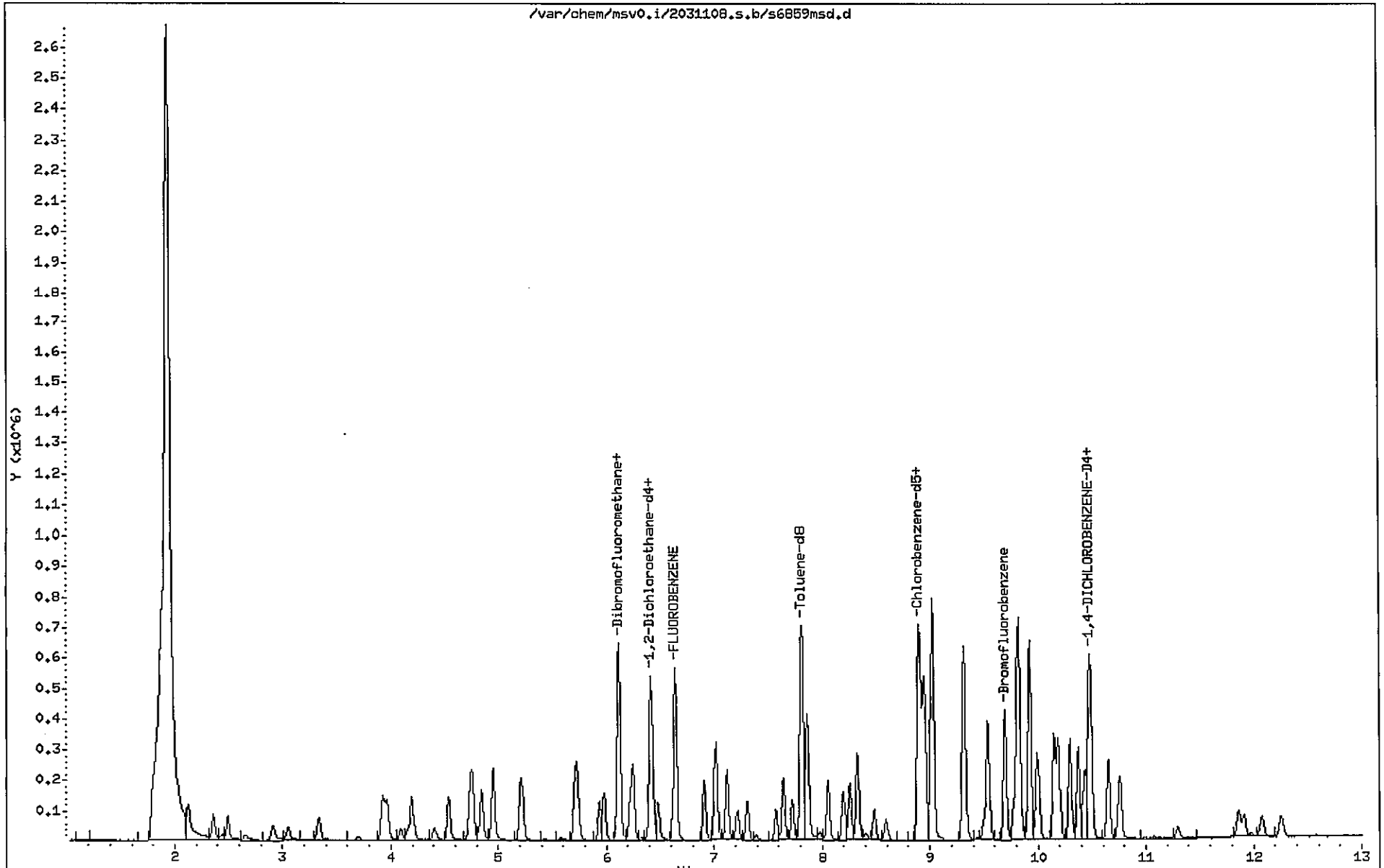
Data File: /var/chem/msv0.i/2031108.s.b/s6859msd.d
Date : 08-NOV-2003 12:33
Client ID: 86-MSD-S-1105-03
Sample Info: 20311062417X86-MSD-S-1105-03

Column phase: DB-624-30M

Instrument: msv0.i

Operator: KRV
Column diameter: 0.53

000385



LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 07-NOV-2003
Instrument: msv0.i
Analyst(s): KRV

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		s6818.d	0.00	07-NOV-2003 16:12	1.000	2
1400		s6819.d	5.00	07-NOV-2003 16:47	1.000	5
129291		s6820.d	5.00	07-NOV-2003 17:20	1.000	1
129313		s6821.d	5.00	07-NOV-2003 17:43	1.000	2
129292		s6822.d	5.00	07-NOV-2003 18:05	1.000	2
129292		s6823.d	5.00	07-NOV-2003 18:27	1.000	3
20311062415		s6824.d	5.00	07-NOV-2003 18:49	1.000	17
20311062416		s6825.d	5.06	07-NOV-2003 19:11	1.000	18
20311062417		s6826.d	5.24	07-NOV-2003 19:33	1.000	19
BLANK		s6827.d	5.00	07-NOV-2003 19:55	1.000	20
20311062401		s6828.d	5.99	07-NOV-2003 20:17	1.000	3
20311062402		s6829.d	5.44	07-NOV-2003 20:39	1.000	4
20311062403		s6830.d	6.07	07-NOV-2003 21:01	1.000	5
20311062404		s6831.d	5.58	07-NOV-2003 21:23	1.000	6
20311062405		s6832.d	5.13	07-NOV-2003 21:45	1.000	7
20311062406		s6833.d	5.55	07-NOV-2003 22:08	1.000	8
20311062407		s6834.d	5.14	07-NOV-2003 22:30	1.000	9
20311062408		s6835.d	5.16	07-NOV-2003 22:52	1.000	10
20311062409		s6836.d	5.29	07-NOV-2003 23:14	1.000	11
20311062410		s6837.d	5.11	07-NOV-2003 23:36	1.000	12
20311062411		s6838.d	5.18	07-NOV-2003 23:58	1.000	13
20311062412		s6839.d	2.37	08-NOV-2003 00:20	1.000	14
20311062413		s6840.d	5.09	08-NOV-2003 00:43	1.000	15
20311062414		s6841.d	5.23	08-NOV-2003 01:05	1.000	16
20311062418		s6842.d	4.99	08-NOV-2003 01:27	1.000	20
20311062419		s6843.d	5.18	08-NOV-2003 01:49	1.000	21
BLANK		s6844.d	5.00	08-NOV-2003 02:12	1.000	22
BLANK		s6845.d	5.00	08-NOV-2003 02:34	1.000	23

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 08-NOV-2003
Instrument: msv0.i
Analyst(s): KRV

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		s6848.d	0.00	08-NOV-2003 08:13	1.000	2
1400		s6849.d	5.00	08-NOV-2003 08:49	1.000	1
BLANK		s6850.d	5.00	08-NOV-2003 09:11	1.000	2
129314		s6851.d	5.00	08-NOV-2003 09:36	1.000	2
129314		s6852.d	5.00	08-NOV-2003 09:58	1.000	2
129332		s6853.d	5.00	08-NOV-2003 10:20	1.000	3
129314		s6854.d	5.00	08-NOV-2003 10:42	1.000	4
129315		s6855.d	5.00	08-NOV-2003 11:04	1.000	2
129315		s6856.d	5.00	08-NOV-2003 11:26	1.000	3
20311062407		s6857.d	5.23	08-NOV-2003 11:49	1.000	3
20311062416		s6858ms.d	5.26	08-NOV-2003 12:11	1.000	5
20311062417		s6859msd.d	5.39	08-NOV-2003 12:33	1.000	4
BLANK		s6860.d	5.00	08-NOV-2003 12:55	1.000	5
20311062409		s6861.d	5.08	08-NOV-2003 13:17	1.000	8
20311062412		s6862.d	5.19	08-NOV-2003 13:40	1.000	9
20311050501		s6863.d	4.18	08-NOV-2003 14:02	1.000	11
20311050502		s6864.d	3.78	08-NOV-2003 14:24	1.000	12
20311050503		s6865.d	4.53	08-NOV-2003 14:46	1.000	13
20311050504		s6866.d	5.30	08-NOV-2003 15:08	1.000	14
20311050505		s6867.d	5.24	08-NOV-2003 15:30	1.000	15
20311050506		s6868.d	5.99	08-NOV-2003 15:52	1.000	16
20311050507		s6869.d	5.91	08-NOV-2003 16:14	1.000	17
20311050508		s6870.d	5.55	08-NOV-2003 16:36	1.000	18
20311050509		s6871.d	3.98	08-NOV-2003 16:59	1.000	19
20311050510		s6872.d	4.70	08-NOV-2003 17:21	1.000	20
20311062403		s6873.d	6.04	08-NOV-2003 17:44	1.000	6
20311062405		s6874.d	5.03	08-NOV-2003 18:06	1.000	7
20311062418		s6875.d	5.04	08-NOV-2003 18:29	1.000	10
BLANK		s6876.d	5.00	08-NOV-2003 18:51	1.000	11
BLANK		s6877.d	5.00	08-NOV-2003 19:13	1.000	12
BLANK		s6878.d	5.00	08-NOV-2003 19:35	1.000	13

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 09-NOV-2003
Instrument: msv1.i
Analyst(s): KRV

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		s4904.d	0.00	09-NOV-2003 08:12	1.000	2
BLK		s4905.d	5.00	09-NOV-2003 08:53	1.000	2
1400		s4906.d	5.00	09-NOV-2003 09:17	1.000	3
BLK		s4907.d	5.00	09-NOV-2003 09:40	1.000	4
129374		s4908.d	5.00	09-NOV-2003 10:07	1.000	5
129328		s4909.d	5.00	09-NOV-2003 10:30	1.000	6
129375		s4911.d	5.00	09-NOV-2003 10:54	1.000	2
20311071021		s4912.d	5.00	09-NOV-2003 11:17	1.000	3
20311062420		s4913.d	5.00	09-NOV-2003 11:40	1.000	4
20311062421		s4914.d	5.00	09-NOV-2003 12:04	1.000	5
129379		s4915.d	5.00	09-NOV-2003 12:27	1.000	6
129380		s4916.d	5.00	09-NOV-2003 12:51	1.000	7
BLK		s4917.d	5.00	09-NOV-2003 13:14	1.000	8
20311062422		s4918.d	5.00	09-NOV-2003 13:37	1.000	9
20311062423		s4919.d	5.00	09-NOV-2003 14:01	1.000	10
20311071022		s4920.d	5.00	09-NOV-2003 14:24	1.000	11
20311071023		s4921.d	5.00	09-NOV-2003 14:48	1.000	12
20311071024		s4922.d	5.00	09-NOV-2003 15:11	1.000	13
20311071025		s4923.d	5.00	09-NOV-2003 15:35	1.000	14
20311071026		s4924.d	5.00	09-NOV-2003 15:58	1.000	15
20311071027		s4925.d	5.00	09-NOV-2003 16:22	1.000	16
20311071028		s4926.d	5.00	09-NOV-2003 16:45	1.000	17
20311071401		s4927.d	5.00	09-NOV-2003 17:08	1.000	18
20311071402		s4928.d	5.00	09-NOV-2003 17:32	1.000	19
20311071403		s4929.d	5.00	09-NOV-2003 17:55	1.000	20
20311051114		s4930.d	5.00	09-NOV-2003 18:19	50.000	21
20311051123		s4931.d	5.00	09-NOV-2003 18:42	40.000	22
20311051117		s4932.d	5.00	09-NOV-2003 19:05	1.000	23
BLK		s4933.d	5.00	09-NOV-2003 19:29	1.000	24
20311062614		s4934.d	5.00	09-NOV-2003 19:52	1.000	25
20311062615		s4935.d	5.00	09-NOV-2003 20:16	1.000	26
BLK		s4936.d	5.00	09-NOV-2003 20:39	1.000	27
BLK		s4937.d	5.00	09-NOV-2003 21:03	1.000	28
BLK		s4938.d	5.00	09-NOV-2003 21:26	1.000	29
BLK		s4939.d	5.00	09-NOV-2003 21:49	1.000	30
BLK		s4940.d	5.00	09-NOV-2003 22:13	1.000	31
BLK		s4941.d	5.00	09-NOV-2003 22:36	1.000	32

REVISED 01/01/2000

LABORATORY CHRONICLE: GC-MS DEPARTMENT

Date: 10-NOV-2003
Instrument: msv2.i
Analyst(s): RJO

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		t0396.d	0.00	10-NOV-2003 07:11	1.000	2
1000		t0397.d	0.00	10-NOV-2003 07:32	1.000	2
1400		t0399.d	5.00	10-NOV-2003 08:29	1.000	2
129601		t0400.d	5.00	10-NOV-2003 09:12	50.000	3
129603		t0401.d	5.00	10-NOV-2003 09:36	50.000	4
129602		t0402.d	5.00	10-NOV-2003 10:00	1.000	5
129602		t0403.d	5.00	10-NOV-2003 10:24	50.000	6
20311062403		t0404.d	6.98	10-NOV-2003 10:59	50.000	7
20311062405		t0405.d	4.75	10-NOV-2003 11:24	50.000	8
20311062409		t0406.d	5.56	10-NOV-2003 11:48	50.000	9
20311062418		t0407.d	4.67	10-NOV-2003 12:12	50.000	10
20311070501		t0408.d	5.32	10-NOV-2003 12:36	50.000	11
20311070502		t0409.d	5.54	10-NOV-2003 13:01	50.000	12
20311070502		t0410.d	5.00	10-NOV-2003 14:05	100.000	13
BLANK		t0411.d	5.00	10-NOV-2003 14:55	100.000	14
20311100702		t0412.d	5.00	10-NOV-2003 15:19	100.000	15

REVISED 01/01/2000

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
8260 IS/SS	5-5-1	C-440-05	NSF 2500 ppm	C-440-05 EXP-02-05	2.0ml	100ml	50ppm	meOH	RSP	10-25-03	02-28-04
		C-441-04	NSF 2500 ppm	C-441-04 EXP-02-04	2.0ml			033518			
8260 IS	5-5-2	~~C-440-05~~ C-441-04	NSF 2500ppm	C-441-04 EXP-02-04	2.0ml	100ml	50ppm	MeOH 033518	RSP	10-25-03	~~2-28-05~~
		C-4 RSP 10-25-03									
AC/AC	5-5-3	Q-2143	NSI	101603-04 04/04	3.125ml	25ml	50ppm	Water	RJO	10-27-03	3-26-04
AC/AC ICV	5-5-4	93018	Absolute	022503 2/25/06	1.25	10ml	50ppm	Water	RJO	10-28-03	4-27-04
8260 STD	5-5-5	Q3393	1000ppm NSI	102403-04 10-04	6.25ml	25ml	250ppm	Methanol 033518	RJO	10-28-03	1-31-04 ~~1-33-04~~
		Q2128	2000ppm NSI	080503 08-04	3.125ml	25ml	250ppm	Methanol 033518	RJO	10-28-03	1-31-04
		C-303 H	2000ppm NSI	051203-04 02-04	3.125ml	25ml	250ppm	Methanol 033518	RJO	10-28-03	1-31-04
AC/AC RJO 1-31-04 ~~RJO~~	5-5-6	Q2143	NSI	080103-04 02-04	1.25ml	10ml	50ppm	Water	RJO	10-28-03	1-31-04
8260 SS	5-5-7	C-440-05	NSI	C-440-05 EXP-02-05	2.0ml	100ml	50ppm	meOH 033518	RJ	10-29-03	3-28-04
AC/AC-ICV	5-5-8	93018	Absolute	022503 EXP-02-25-06	0.625	5ml	050ppm	Water	RJ	10-29-03	3-28-04
AC/AC-ACCUSTD	5-5-9	M-603 1000ppm	Accu	13 3100067 EXP-8-2004	1.25ml	5ml	250ppm	Water	RJ	10-30-03	1-31-04
8260 IS	5-5-10	C-441-04	NSI 2500ppm	C-441-04 02/04	1.0ml	100ml	25ppm	MeOH 033518	RJO	11-02-03	1-31-04
AC/AC-	5-5-11	Q-2143	NSI	102503-04 EXP-02-04	3.125ml	25ml	50/250 ppm	NA Water	RSP AH	11-03-03	5-02-04
2CVE	5-5-12	M-04-05	NSI	M-04-06 EXP-02-05	6.250	25ml	250ppm	MeOH 033518	RJ	11-4-03	5-3-04
AC/AC-ICV Ultra	5-5-13	AMN-613	Ultra 1000ppm	U-1835 EXP-2/03/04	1.250 2ml	25ml	50ppm	Water	RSP	11-4-03	3-31-04 ~~5-3-03~~
AC/AC ICV NSI	5-5-14	Q-2143	NSI	080103-04 EXP 2-4	1.25ml	10ml	50ppm	Water	RJO	11-5-03	1-31-04

000390

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
8240 SS	5-6-1	C-440-05	NSI	C-440-05 Exp. 12/05	2.5ml	25ml	250ppm	MeOH 033518	HJL	11-6-03	1-5-04
CLP-2.1 Ketone	5-6-2	C-109-10 2000ppm	NSI	C-109-10 EXP-11-03	1ml	10ml	200ppm	Water	RJP	11-17-03	11-31-03
CLP-2.1 IS/SS	5-6-3	C-157-03 2500ppm	NSI	C-157-03 Exp. 09-04	500ul	50ml	25ppm	MeOH 033518	[illegible]	11-17-03	4-16-04 RJP
		233-04-06 2005ppm		233-04-06 Exp-08-04	633 636ul 11-17-03		↓				

000391

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: 14 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-B7-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062401

Date Collected 11/05/03 Time: 1525

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1229

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.7	U	10.5	38.7
91-57-6	2-Methylnaphthalene	38.7	U	11.8	38.7
83-32-9	Acenaphthene	38.7	U	11.3	38.7
208-96-8	Acenaphthylene	38.7	U	4.33	38.7
120-12-7	Anthracene	3.84	U	0.548	3.84
56-55-3	Benzo(a)anthracene	3.84	U	1.38	3.84
50-32-8	Benzo(a)pyrene	3.84	U	1.29	3.84
205-99-2	Benzo(b)fluoranthene	3.84	U	0.838	3.84
191-24-2	Benzo(g,h,i)perylene	3.84	U	0.431	3.84
207-08-9	Benzo(k)fluoranthene	3.84	U	0.983	3.84
218-01-9	Chrysene	3.84	U	1.10	3.84
53-70-3	Dibenz(a,h)anthracene	3.84	U	1.03	3.84
206-44-0	Fluoranthene	3.84	U	1.07	3.84
86-73-7	Fluorene	19.4	U	4.08	19.4
193-39-5	Indeno(1,2,3-cd)pyrene	9.66	U	1.06	9.66
91-20-3	Naphthalene	9.66	U	3.58	9.66
85-01-8	Phenanthrene	3.84	U	1.05	3.84
129-00-0	Pyrene	3.84	U	0.554	3.84

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B31-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062402

Date Collected 11/05/03 Time: 1600

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1236

Dilution Factor: 1 Analyst: JDT

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: 031112/H000569

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	37.5	U	10.2	37.5
91-57-6	2-Methylnaphthalene	37.5	U	11.4	37.5
83-32-9	Acenaphthene	37.5	U	10.9	37.5
208-96-8	Acenaphthylene	37.5	U	4.19	37.5
120-12-7	Anthracene	3.72	U	0.531	3.72
56-55-3	Benzo(a)anthracene	3.72	U	1.34	3.72
50-32-8	Benzo(a)pyrene	3.72	U	1.25	3.72
205-99-2	Benzo(b)fluoranthene	3.72	U	0.811	3.72
191-24-2	Benzo(g,h,l)perylene	3.72	U	0.417	3.72
207-08-9	Benzo(k)fluoranthene	3.72	U	0.952	3.72
218-01-9	Chrysene	3.72	U	1.06	3.72
53-70-3	Dibenz(a,h)anthracene	3.72	U	0.993	3.72
206-44-0	Fluoranthene	3.72	U	1.03	3.72
86-73-7	Fluorene	18.8	U	3.95	18.8
193-39-5	Indeno(1,2,3-cd)pyrene	9.35	U	1.03	9.35
91-20-3	Naphthalene	9.35	U	3.47	9.35
85-01-8	Phenanthrene	3.72	U	1.01	3.72
129-00-0	Pyrene	3.72	U	0.536	3.72

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: 15 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: 265228 Analytical Batch: 265256

Sample ID 86-B41-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062403

Date Collected 11/05/03 Time: 1540

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1242

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	66.0		10.7	39.5
91-57-6	2-Methylnaphthalene	39.5	U	12.0	39.5
83-32-9	Acenaphthene	39.5	U	11.5	39.5
208-96-8	Acenaphthylene	39.5	U	4.41	39.5
120-12-7	Anthracene	3.91	U	0.558	3.91
56-55-3	Benzo(a)anthracene	3.91	U	1.41	3.91
50-32-8	Benzo(a)pyrene	1.46	J	1.32	3.91
205-99-2	Benzo(b)fluoranthene	1.47	J	0.853	3.91
191-24-2	Benzo(g,h,i)perylene	3.91	U	0.438	3.91
207-08-9	Benzo(k)fluoranthene	3.91	U	1.00	3.91
218-01-9	Chrysene	3.91	U	1.12	3.91
53-70-3	Dibenz(a,h)anthracene	3.91	U	1.05	3.91
206-44-0	Fluoranthene	3.91	U	1.09	3.91
86-73-7	Fluorene	19.8	U	4.16	19.8
193-39-5	Indeno(1,2,3-cd)pyrene	9.84	U	1.08	9.84
91-20-3	Naphthalene	9.84	U	3.65	9.84
85-01-8	Phenanthrene	3.91	U	1.07	3.91
129-00-0	Pyrene	3.91	U	0.564	3.91

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: 9. 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: 265228 Analytical Batch: 265256

Sample ID 86-B70-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062404

Date Collected 11/05/03 Time: 1510

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1632

Dilution Factor: 20 Analyst: JDT

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: 031112/H000571

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	7770		201	738
91-57-6	2-Methylnaphthalene	9700		224	738
83-32-9	Acenaphthene	738	U	215	738
208-96-8	Acenaphthylene	738	U	82.4	738
120-12-7	Anthracene	73.1	U	10.4	73.1
56-55-3	Benzo(a)anthracene	73.1	U	26.4	73.1
50-32-8	Benzo(a)pyrene	73.1	U	24.6	73.1
205-99-2	Benzo(b)fluoranthene	73.1	U	16.0	73.1
191-24-2	Benzo(g,h,i)perylene	73.1	U	8.20	73.1
207-08-9	Benzo(k)fluoranthene	73.1	U	18.7	73.1
218-01-9	Chrysene	73.1	U	20.9	73.1
53-70-3	Dibenz(a,h)anthracene	73.1	U	19.5	73.1
206-44-0	Fluoranthene	73.1	U	20.3	73.1
86-73-7	Fluorene	370	U	77.8	370
193-39-5	Indeno(1,2,3-cd)pyrene	184	U	20.2	184
91-20-3	Naphthalene	1970		68.2	184
85-01-8	Phenanthrene	73.1	U	19.9	73.1
129-00-0	Pyrene	134		10.5	73.1

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: 5. 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: 265228 Analytical Batch: 265256

Sample ID 86-B96-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062405

Date Collected 11/05/03 Time: 1400

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1639

Dilution Factor: 20 Analyst: JDT

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: 031112/H000571

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	703	U	191	703
91-57-6	2-Methylnaphthalene	703	U	213	703
83-32-9	Acenaphthene	703	U	205	703
208-96-8	Acenaphthylene	703	U	78.6	703
120-12-7	Anthracene	69.7	U	9.95	69.7
56-55-3	Benzo(a)anthracene	172		25.1	69.7
50-32-8	Benzo(a)pyrene	287		23.4	69.7
205-99-2	Benzo(b)fluoranthene	292		15.2	69.7
191-24-2	Benzo(g,h,i)perylene	582		7.82	69.7
207-08-9	Benzo(k)fluoranthene	125		17.9	69.7
218-01-9	Chrysene	69.7	U	19.9	69.7
53-70-3	Dibenz(a,h)anthracene	114		18.6	69.7
206-44-0	Fluoranthene	69.7	U	19.4	69.7
86-73-7	Fluorene	353	U	74.1	353
193-39-5	Indeno(1,2,3-cd)pyrene	307		19.2	175
91-20-3	Naphthalene	175	U	65.1	175
85-01-8	Phenanthrene	73.0		19.0	69.7
129-00-0	Pyrene	318		10.1	69.7

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: 12 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-B99-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062406

Date Collected 11/05/03 Time: 1455

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1303

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.2	U	10.4	38.2
91-57-6	2-Methylnaphthalene	38.2	U	11.6	38.2
83-32-9	Acenaphthene	38.2	U	11.1	38.2
208-96-8	Acenaphthylene	38.2	U	4.27	38.2
120-12-7	Anthracene	3.78	U	0.540	3.78
56-55-3	Benzo(a)anthracene	3.78	U	1.36	3.78
50-32-8	Benzo(a)pyrene	3.78	U	1.27	3.78
205-99-2	Benzo(b)fluoranthene	3.78	U	0.826	3.78
191-24-2	Benzo(g,h,i)perylene	3.78	U	0.424	3.78
207-08-9	Benzo(k)fluoranthene	3.78	U	0.969	3.78
218-01-9	Chrysene	3.78	U	1.08	3.78
53-70-3	Dibenz(a,h)anthracene	3.78	U	1.01	3.78
206-44-0	Fluoranthene	3.78	U	1.05	3.78
86-73-7	Fluorene	19.1	U	4.02	19.1
193-39-5	Indeno(1,2,3-cd)pyrene	9.52	U	1.04	9.52
91-20-3	Naphthalene	135		3.53	9.52
85-01-8	Phenanthrene	25.9		1.03	3.78
129-00-0	Pyrene	3.78	U	0.546	3.78

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: 18 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: 265228 Analytical Batch: 265256

Sample ID 86-B101-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062407

Date Collected 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1702

Dilution Factor: 5 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000572

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	204	U	55.5	204
91-57-6	2-Methylnaphthalene	204	U	61.9	204
83-32-9	Acenaphthene	204	U	59.6	204
208-96-8	Acenaphthylene	204	U	22.8	204
120-12-7	Anthracene	20.2	U	2.89	20.2
56-55-3	Benzo(a)anthracene	30.4		7.29	20.2
50-32-8	Benzo(a)pyrene	20.2	U	6.80	20.2
205-99-2	Benzo(b)fluoranthene	20.2	U	4.41	20.2
191-24-2	Benzo(g,h,i)perylene	20.2	U	2.27	20.2
207-08-9	Benzo(k)fluoranthene	20.2	U	5.18	20.2
218-01-9	Chrysene	20.2	U	5.78	20.2
53-70-3	Dibenz(a,h)anthracene	20.2	U	5.41	20.2
206-44-0	Fluoranthene	20.2	U	5.61	20.2
86-73-7	Fluorene	102	U	21.5	102
193-39-5	Indeno(1,2,3-cd)pyrene	50.9	U	5.58	50.9
91-20-3	Naphthalene	50.9	U	18.9	50.9
85-01-8	Phenanthrene	24.1		5.52	20.2
129-00-0	Pyrene	20.2	U	2.92	20.2

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B104-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062408

Date Collected 11/05/03 Time: 1350

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1412

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	37.7	U	10.2	37.7
91-57-6	2-Methylnaphthalene	37.7	U	11.4	37.7
83-32-9	Acenaphthene	37.7	U	11.0	37.7
208-96-8	Acenaphthylene	37.7	U	4.21	37.7
120-12-7	Anthracene	3.73	U	0.533	3.73
56-55-3	Benzo(a)anthracene	3.73	U	1.35	3.73
50-32-8	Benzo(a)pyrene	3.73	U	1.26	3.73
205-99-2	Benzo(b)fluoranthene	3.73	U	0.814	3.73
191-24-2	Benzo(g,h,l)perylene	3.73	U	0.419	3.73
207-08-9	Benzo(k)fluoranthene	3.73	U	0.956	3.73
218-01-9	Chrysene	3.73	U	1.07	3.73
53-70-3	Dibenz(a,h)anthracene	3.73	U	0.998	3.73
206-44-0	Fluoranthene	3.73	U	1.04	3.73
86-73-7	Fluorene	18.9	U	3.97	18.9
193-39-5	Indeno(1,2,3-cd)pyrene	9.39	U	1.03	9.39
91-20-3	Naphthalene	9.39	U	3.48	9.39
85-01-8	Phenanthrene	3.73	U	1.02	3.73
129-00-0	Pyrene	3.73	U	0.538	3.73

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: 9. 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: 265228 Analytical Batch: 265256

Sample ID 86-B106-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062409

Date Collected 11/05/03 Time: 1415

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1436

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.8	U	10.0	36.8
91-57-6	2-Methylnaphthalene	36.8	U	11.2	36.8
83-32-9	Acenaphthene	36.8	U	10.7	36.8
208-96-8	Acenaphthylene	36.8	U	4.11	36.8
120-12-7	Anthracene	3.65	U	0.520	3.65
56-55-3	Benzo(a)anthracene	3.65	U	1.31	3.65
50-32-8	Benzo(a)pyrene	4.97		1.23	3.65
205-99-2	Benzo(b)fluoranthene	13.4		0.796	3.65
191-24-2	Benzo(g,h,i)perylene	3.65	U	0.409	3.65
207-08-9	Benzo(k)fluoranthene	10.7		0.934	3.65
218-01-9	Chrysene	28.2		1.04	3.65
53-70-3	Dibenz(a,h)anthracene	3.65	U	0.975	3.65
206-44-0	Fluoranthene	5.65		1.01	3.65
86-73-7	Fluorene	18.5	U	3.88	18.5
193-39-5	Indeno(1,2,3-cd)pyrene	9.17	U	1.01	9.17
91-20-3	Naphthalene	9.17	U	3.40	9.17
85-01-8	Phenanthrene	3.65	U	0.995	3.65
129-00-0	Pyrene	3.65	U	0.526	3.65

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B110-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062410

Date Collected 11/05/03 Time: 1325

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1443

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	35.6	U	9.69	35.6
91-57-6	2-Methylnaphthalene	35.6	U	10.8	35.6
83-32-9	Acenaphthene	35.6	U	10.4	35.6
208-96-8	Acenaphthylene	35.6	U	3.98	35.6
120-12-7	Anthracene	3.53	U	0.504	3.53
56-55-3	Benzo(a)anthracene	3.53	U	1.27	3.53
50-32-8	Benzo(a)pyrene	3.53	U	1.19	3.53
205-99-2	Benzo(b)fluoranthene	3.53	U	0.770	3.53
191-24-2	Benzo(g,h,i)perylene	3.53	U	0.396	3.53
207-08-9	Benzo(k)fluoranthene	3.53	U	0.904	3.53
218-01-9	Chrysene	3.53	U	1.01	3.53
53-70-3	Dibenz(a,h)anthracene	3.53	U	0.944	3.53
206-44-0	Fluoranthene	3.53	U	0.980	3.53
86-73-7	Fluorene	17.9	U	3.76	17.9
193-39-5	Indeno(1,2,3-cd)pyrene	8.88	U	0.975	8.88
91-20-3	Naphthalene	8.88	U	3.30	8.88
85-01-8	Phenanthrene	3.53	U	0.963	3.53
129-00-0	Pyrene	3.53	U	0.509	3.53

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: 9. 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: 265228 Analytical Batch: 265256

Sample ID 86-B137-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062411

Date Collected 11/05/03 Time: 1335

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1450

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000570

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.8	U	10.0	36.8
91-57-6	2-Methylnaphthalene	36.8	U	11.2	36.8
83-32-9	Acenaphthene	36.8	U	10.7	36.8
208-96-8	Acenaphthylene	36.8	U	4.11	36.8
120-12-7	Anthracene	3.64	U	0.520	3.64
56-55-3	Benzo(a)anthracene	3.64	U	1.31	3.64
50-32-8	Benzo(a)pyrene	3.64	U	1.23	3.64
205-99-2	Benzo(b)fluoranthene	3.64	U	0.795	3.64
191-24-2	Benzo(g,h,i)perylene	3.64	U	0.409	3.64
207-08-9	Benzo(k)fluoranthene	3.64	U	0.933	3.64
218-01-9	Chrysene	3.64	U	1.04	3.64
53-70-3	Dibenz(a,h)anthracene	3.64	U	0.974	3.64
206-44-0	Fluoranthene	3.64	U	1.01	3.64
86-73-7	Fluorene	18.4	U	3.88	18.4
193-39-5	Indeno(1,2,3-cd)pyrene	9.17	U	1.01	9.17
91-20-3	Naphthalene	9.17	U	3.40	9.17
85-01-8	Phenanthrene	15.5		0.994	3.64
129-00-0	Pyrene	3.64	U	0.526	3.64

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: 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: 265228 Analytical Batch: 265256

Sample ID 86-B146-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062412

Date Collected 11/05/03 Time: 1305

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1457

Dilution Factor: 1 Analyst: JDT

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: 031112/H000570

CAS NO.	*COMPOUND*	*RESULT*		*MDL*	*RL*
90-12-0	1-Methylnaphthalene	35.6	U	9.67	35.6
91-57-6	2-Methylnaphthalene	35.6	U	10.8	35.6
83-32-9	Acenaphthene	35.6	U	10.4	35.6
208-96-8	Acenaphthylene	35.6	U	3.97	35.6
120-12-7	Anthracene	3.52	U	0.503	3.52
56-55-3	Benzo(a)anthracene	3.52	U	1.27	3.52
50-32-8	Benzo(a)pyrene	3.52	U	1.19	3.52
205-99-2	Benzo(b)fluoranthene	3.52	U	0.769	3.52
191-24-2	Benzo(g,h,i)perylene	3.52	U	0.395	3.52
207-08-9	Benzo(k)fluoranthene	3.52	U	0.902	3.52
218-01-9	Chrysene	3.52	U	1.01	3.52
53-70-3	Dibenz(a,h)anthracene	3.52	U	0.942	3.52
206-44-0	Fluoranthene	3.52	U	0.978	3.52
86-73-7	Fluorene	17.8	U	3.75	17.8
193-39-5	Indeno(1,2,3-cd)pyrene	8.86	U	0.973	8.86
91-20-3	Naphthalene	8.86	U	3.29	8.86
85-01-8	Phenanthrene	3.52	U	0.961	3.52
129-00-0	Pyrene	3.52	U	0.508	3.52

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: 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-B158-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062413

Date Collected 11/05/03 Time: 1255

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1504

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	36.4	U	9.91	36.4
91-57-6	2-Methylnaphthalene	36.4	U	11.0	36.4
83-32-9	Acenaphthene	36.4	U	10.6	36.4
208-96-8	Acenaphthylene	36.4	U	4.07	36.4
120-12-7	Anthracene	3.61	U	0.515	3.61
56-55-3	Benzo(a)anthracene	55.2		1.30	3.61
50-32-8	Benzo(a)pyrene	84.0		1.21	3.61
205-99-2	Benzo(b)fluoranthene	3.61	U	0.788	3.61
191-24-2	Benzo(g,h,i)perylene	80.2		0.405	3.61
207-08-9	Benzo(k)fluoranthene	55.8		0.924	3.61
218-01-9	Chrysene	97.6		1.03	3.61
53-70-3	Dibenz(a,h)anthracene	66.9		0.965	3.61
206-44-0	Fluoranthene	3.61	U	1.00	3.61
86-73-7	Fluorene	18.3	U	3.84	18.3
193-39-5	Indeno(1,2,3-cd)pyrene	62.0		0.996	9.08
91-20-3	Naphthalene	9.08	U	3.37	9.08
85-01-8	Phenanthrene	3.61	U	0.984	3.61
129-00-0	Pyrene	108		0.521	3.61

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: 4. 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: 265228 Analytical Batch: 265256

Sample ID 86-B167-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062414

Date Collected 11/05/03 Time: 1315

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1511

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	34.9	U	9.49	34.9
91-57-6	2-Methylnaphthalene	34.9	U	10.6	34.9
83-32-9	Acenaphthene	34.9	U	10.2	34.9
208-96-8	Acenaphthylene	34.9	U	3.90	34.9
120-12-7	Anthracene	3.46	U	0.493	3.46
56-55-3	Benzo(a)anthracene	3.46	U	1.25	3.46
50-32-8	Benzo(a)pyrene	1.50	J	1.16	3.46
205-99-2	Benzo(b)fluoranthene	1.94	J	0.754	3.46
191-24-2	Benzo(g,h,i)perylene	3.46	U	0.387	3.46
207-08-9	Benzo(k)fluoranthene	2.32	J	0.885	3.46
218-01-9	Chrysene	3.46	U	0.988	3.46
53-70-3	Dibenz(a,h)anthracene	3.46	U	0.924	3.46
206-44-0	Fluoranthene	3.46	U	0.959	3.46
86-73-7	Fluorene	17.5	U	3.68	17.5
193-39-5	Indeno(1,2,3-cd)pyrene	8.69	U	0.954	8.69
91-20-3	Naphthalene	8.69	U	3.23	8.69
85-01-8	Phenanthrene	3.46	U	0.943	3.46
129-00-0	Pyrene	3.46	U	0.499	3.46

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: 14 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-B189-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062415

Date Collected 11/05/03 Time: 1245

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1532

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	38.8	U	10.6	38.8
91-57-6	2-Methylnaphthalene	38.8	U	11.8	38.8
83-32-9	Acenaphthene	38.8	U	11.3	38.8
208-96-8	Acenaphthylene	38.8	U	4.33	38.8
120-12-7	Anthracene	3.85	U	0.549	3.85
56-55-3	Benzo(a)anthracene	3.85	U	1.39	3.85
50-32-8	Benzo(a)pyrene	3.85	U	1.29	3.85
205-99-2	Benzo(b)fluoranthene	3.87		0.839	3.85
191-24-2	Benzo(g,h,i)perylene	3.85	U	0.431	3.85
207-08-9	Benzo(k)fluoranthene	3.85	U	0.985	3.85
218-01-9	Chrysene	3.85	U	1.10	3.85
53-70-3	Dibenz(a,h)anthracene	3.85	U	1.03	3.85
206-44-0	Fluoranthene	3.85	U	1.07	3.85
86-73-7	Fluorene	19.5	U	4.09	19.5
193-39-5	Indeno(1,2,3-cd)pyrene	9.67	U	1.06	9.67
91-20-3	Naphthalene	9.67	U	3.59	9.67
85-01-8	Phenanthrene	3.85	U	1.05	3.85
129-00-0	Pyrene	3.85	U	0.555	3.85

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: 14 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-MS-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062416

Date Collected 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1709

Dilution Factor: 5 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000572

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	240		52.8	194
91-57-6	2-Methylnaphthalene	214		58.8	194
83-32-9	Acenaphthene	135	J	56.6	194
208-96-8	Acenaphthylene	177	J	21.7	194
120-12-7	Anthracene	182		2.74	19.2
56-55-3	Benzo(a)anthracene	241		6.93	19.2
50-32-8	Benzo(a)pyrene	168		6.47	19.2
205-99-2	Benzo(b)fluoranthene	196		4.19	19.2
191-24-2	Benzo(g,h,i)perylene	140		2.16	19.2
207-08-9	Benzo(k)fluoranthene	183		4.92	19.2
218-01-9	Chrysene	249		5.49	19.2
53-70-3	Dibenz(a,h)anthracene	270		5.14	19.2
206-44-0	Fluoranthene	195		5.34	19.2
86-73-7	Fluorene	203		20.5	97.3
193-39-5	Indeno(1,2,3-cd)pyrene	179		5.31	48.4
91-20-3	Naphthalene	136		17.9	48.4
85-01-8	Phenanthrene	198		5.24	19.2
129-00-0	Pyrene	198		2.77	19.2

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: 14 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: 265228 Analytical Batch: 265256

Sample ID 86-MSD-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062417

Date Collected 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1716

Dilution Factor: 5 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000572

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	226		52.8	194
91-57-6	2-Methylnaphthalene	189	J	58.8	194
83-32-9	Acenaphthene	124	J	56.6	194
208-96-8	Acenaphthylene	198		21.7	194
120-12-7	Anthracene	171		2.74	19.2
56-55-3	Benzo(a)anthracene	211		6.93	19.2
50-32-8	Benzo(a)pyrene	142		6.47	19.2
205-99-2	Benzo(b)fluoranthene	164		4.19	19.2
191-24-2	Benzo(g,h,i)perylene	114		2.16	19.2
207-08-9	Benzo(k)fluoranthene	160		4.92	19.2
218-01-9	Chrysene	206		5.49	19.2
53-70-3	Dibenz(a,h)anthracene	165		5.14	19.2
206-44-0	Fluoranthene	182		5.34	19.2
86-73-7	Fluorene	160		20.5	97.3
193-39-5	Indeno(1,2,3-cd)pyrene	156		5.31	48.4
91-20-3	Naphthalene	139		17.9	48.4
85-01-8	Phenanthrene	168		5.24	19.2
129-00-0	Pyrene	164		2.77	19.2

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: 5. 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: 265228 Analytical Batch: 265256

CONCENTRATION UNITS: ug/kg

Sample ID 86-DUP1-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062418

Date Collected 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1723

Dilution Factor: 20 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000572

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	9420		191	701
91-57-6	2-Methylnaphthalene	11700		213	701
83-32-9	Acenaphthene	701	U	205	701
208-96-8	Acenaphthylene	701	U	78.3	701
120-12-7	Anthracene	69.5	U	9.92	69.5
56-55-3	Benzo(a)anthracene	69.5	U	25.1	69.5
50-32-8	Benzo(a)pyrene	69.5	U	23.4	69.5
205-99-2	Benzo(b)fluoranthene	69.5	U	15.2	69.5
191-24-2	Benzo(g,h,i)perylene	69.5	U	7.79	69.5
207-08-9	Benzo(k)fluoranthene	69.5	U	17.8	69.5
218-01-9	Chrysene	69.5	U	19.9	69.5
53-70-3	Dibenz(a,h)anthracene	69.5	U	18.6	69.5
206-44-0	Fluoranthene	69.5	U	19.3	69.5
86-73-7	Fluorene	352	U	73.9	352
193-39-5	Indeno(1,2,3-cd)pyrene	175	U	19.2	175
91-20-3	Naphthalene	3050		64.9	175
85-01-8	Phenanthrene	69.5	U	19.0	69.5
129-00-0	Pyrene	184		10.0	69.5

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: 4. 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: 265228 Analytical Batch: 265256

Sample ID 86-DUP2-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062419

Date Collected 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1525

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000571

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	34.9	U	9.50	34.9
91-57-6	2-Methylnaphthalene	34.9	U	10.6	34.9
83-32-9	Acenaphthene	34.9	U	10.2	34.9
208-96-8	Acenaphthylene	34.9	U	3.90	34.9
120-12-7	Anthracene	3.46	U	0.494	3.46
56-55-3	Benzo(a)anthracene	3.46	U	1.25	3.46
50-32-8	Benzo(a)pyrene	3.46	U	1.16	3.46
205-99-2	Benzo(b)fluoranthene	3.46	U	0.755	3.46
191-24-2	Benzo(g,h,i)perylene	3.46	U	0.388	3.46
207-08-9	Benzo(k)fluoranthene	3.46	U	0.886	3.46
218-01-9	Chrysene	3.46	U	0.989	3.46
53-70-3	Dibenz(a,h)anthracene	3.46	U	0.925	3.46
206-44-0	Fluoranthene	3.46	U	0.961	3.46
86-73-7	Fluorene	17.5	U	3.68	17.5
193-39-5	Indeno(1,2,3-cd)pyrene	8.71	U	0.956	8.71
91-20-3	Naphthalene	8.71	U	3.23	8.71
85-01-8	Phenanthrene	3.46	U	0.944	3.46
129-00-0	Pyrene	3.46	U	0.499	3.46

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: 265029 Analytical Batch: 265125

Sample ID 86-EB1-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062420

Date Collected 11/05/03 Time: 1230

Date Received: 11/06/03

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1545

Dilution Factor: 1 Analyst: JDT

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: 031110P/H00056

CAS NO.	*COMPOUND*	*RESULT*		*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

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: 265029 Analytical Batch: 265125

Sample ID 86-EB2-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062421

Date Collected 11/05/03 Time: 1615

Date Received: 11/06/03

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1551

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		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

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: 265029 Analytical Batch: 265125

Sample ID MB128899

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128899

Date Collected Time:

Date Received:

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1517

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		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

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: 265228 Analytical Batch: 265256

Sample ID MB129800

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129800

Date Collected Time:

Date Received:

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1153

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		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

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: 265029 Analytical Batch: 265125

Sample ID LCS128900

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128900

Date Collected Time:

Date Received:

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1524

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	9.65		0.291	1.00
91-57-6	2-Methylnaphthalene	8.80		0.142	1.00
83-32-9	Acenaphthene	8.74		0.331	1.00
208-96-8	Acenaphthylene	4.53		0.153	1.00
120-12-7	Anthracene	0.189		0.024	0.100
56-55-3	Benzo(a)anthracene	0.469		0.032	0.100
50-32-8	Benzo(a)pyrene	0.476		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.216		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.629		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.215		0.033	0.100
218-01-9	Chrysene	0.477		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	1.35		0.029	0.100
206-44-0	Fluoranthene	0.430		0.044	0.100
86-73-7	Fluorene	0.891		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.415		0.041	0.250
91-20-3	Naphthalene	5.80		0.124	0.250
85-01-8	Phenanthrene	0.364		0.025	0.100
129-00-0	Pyrene	0.870		0.034	0.100

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: 265029 Analytical Batch: 265125

Sample ID LCSD128901

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128901

Date Collected Time:

Date Received:

Date Extracted: 11/08/03

Date Analyzed: 11/10/03 Time: 1531

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031110P/H00056

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	9.61		0.291	1.00
91-57-6	2-Methylnaphthalene	8.40		0.142	1.00
83-32-9	Acenaphthene	8.93		0.331	1.00
208-96-8	Acenaphthylene	4.61		0.153	1.00
120-12-7	Anthracene	0.215		0.024	0.100
56-55-3	Benzo(a)anthracene	0.461		0.032	0.100
50-32-8	Benzo(a)pyrene	0.487		0.033	0.100
205-99-2	Benzo(b)fluoranthene	0.245		0.016	0.100
191-24-2	Benzo(g,h,i)perylene	0.697		0.016	0.100
207-08-9	Benzo(k)fluoranthene	0.183		0.033	0.100
218-01-9	Chrysene	0.438		0.030	0.100
53-70-3	Dibenz(a,h)anthracene	1.48		0.029	0.100
206-44-0	Fluoranthene	0.469		0.044	0.100
86-73-7	Fluorene	0.943		0.099	0.500
193-39-5	Indeno(1,2,3-cd)pyrene	0.443		0.041	0.250
91-20-3	Naphthalene	6.09		0.124	0.250
85-01-8	Phenanthrene	0.378		0.025	0.100
129-00-0	Pyrene	0.877		0.034	0.100

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: 265228 Analytical Batch: 265256

Sample ID LCS129801

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129801

Date Collected Time:

Date Received:

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1200

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	196		9.06	33.3
91-57-6	2-Methylnaphthalene	166		10.1	33.3
83-32-9	Acenaphthene	167		9.72	33.3
208-96-8	Acenaphthylene	188		3.72	33.3
120-12-7	Anthracene	173		0.471	3.30
56-55-3	Benzo(a)anthracene	175		1.19	3.30
50-32-8	Benzo(a)pyrene	163		1.11	3.30
205-99-2	Benzo(b)fluoranthene	162		0.720	3.30
191-24-2	Benzo(g,h,i)perylene	118		0.370	3.30
207-08-9	Benzo(k)fluoranthene	157		0.845	3.30
218-01-9	Chrysene	177		0.943	3.30
53-70-3	Dibenz(a,h)anthracene	108		0.882	3.30
206-44-0	Fluoranthene	174		0.916	3.30
86-73-7	Fluorene	179		3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	136		0.911	8.30
91-20-3	Naphthalene	176		3.08	8.30
85-01-8	Phenanthrene	183		0.900	3.30
129-00-0	Pyrene	186		0.476	3.30

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: 265228 Analytical Batch: 265256

Sample ID LCSD129802

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129802

Date Collected Time:

Date Received:

Date Extracted: 11/11/03

Date Analyzed: 11/12/03 Time: 1207

Dilution Factor: 1 Analyst: JDT

Prep Method: SW-846 8310

Analytical Method: SW-846 8310

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

Lab File ID: 031112/H000569

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT		MDL	RL
90-12-0	1-Methylnaphthalene	203		9.06	33.3
91-57-6	2-Methylnaphthalene	178		10.1	33.3
83-32-9	Acenaphthene	158		9.72	33.3
208-96-8	Acenaphthylene	194		3.72	33.3
120-12-7	Anthracene	180		0.471	3.30
56-55-3	Benzo(a)anthracene	182		1.19	3.30
50-32-8	Benzo(a)pyrene	172		1.11	3.30
205-99-2	Benzo(b)fluoranthene	168		0.720	3.30
191-24-2	Benzo(g,h,i)perylene	128		0.370	3.30
207-08-9	Benzo(k)fluoranthene	171		0.845	3.30
218-01-9	Chrysene	183		0.943	3.30
53-70-3	Dibenz(a,h)anthracene	122		0.882	3.30
206-44-0	Fluoranthene	175		0.916	3.30
86-73-7	Fluorene	186		3.51	16.7
193-39-5	Indeno(1,2,3-cd)pyrene	139		0.911	8.30
91-20-3	Naphthalene	182		3.08	8.30
85-01-8	Phenanthrene	190		0.900	3.30
129-00-0	Pyrene	195		0.476	3.30

2E

WATER SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

GC Column (1): 201TP-0.15 ID: 2.1 (mm) GC Cloumn (2): ID: (mm)

Method: SW-846 8310

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	86-EB1-W-1105-03	88	40	140														0
2 .	86-EB2-W-1105-03	90	40	140														0
3 .	MB128899	98	40	140														0
4 .	LCS128900	92	40	140														0
5 .	LCSD128901	91	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.: 203110624

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.	86-B7-S-1105-03	104								0
2.	86-B31-S-1105-03	76								0
3.	86-B41-S-1105-03	119								0
4.	86-B70-S-1105-03	0	D							0
5.	86-B96-S-1105-03	0	D							0
6.	86-B99-S-1105-03	133								0
7.	86-B101-S-1105-03	86								0
8.	86-B104-S-1105-03	76								0
9.	86-B106-S-1105-03	108								0
10.	86-B110-S-1105-03	77								0
11.	86-B137-S-1105-03	89								0
12.	86-B146-S-1105-03	110								0
13.	86-B158-S-1105-03	104								0
14.	86-B167-S-1105-03	89								0
15.	86-B189-S-1105-03	98								0
16.	86-MS-S-1105-03	109								0
17.	86-MSD-S-1105-03	112								0
18.	86-DUP1-S-1010-02	0	D							0
19.	86-DUP2-S-1010-02	81								0
20.	MB129800	85								0
21.	LCS129801	100								0
22.	LCSD129802	92								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 LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

SAMPLE NO : 128900

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1-Methylnaphthalene	ug/L	10	0	9.65	97		40 - 140
2-Methylnaphthalene	ug/L	10	0	8.8	88		40 - 140
Acenaphthene	ug/L	10	0	8.74	87		40 - 140
Acenaphthylene	ug/L	5	0	4.53	91		40 - 140
Anthracene	ug/L	.2	0	.189	95		40 - 140
Benzo(a)anthracene	ug/L	.5	0	.469	94		40 - 140
Benzo(a)pyrene	ug/L	.5	0	.476	95		40 - 140
Benzo(b)fluoranthene	ug/L	.2	0	.216	108		40 - 140
Benzo(g,h,i)perylene	ug/L	.8	0	.629	79		40 - 140
Benzo(k)fluoranthene	ug/L	.2	0	.215	108		40 - 140
Chrysene	ug/L	.5	0	.477	95		40 - 140
Dibenz(a,h)anthracene	ug/L	2	0	1.35	68		40 - 140
Fluoranthene	ug/L	.5	0	.43	86		40 - 140
Fluorene	ug/L	1	0	.891	89		40 - 140
Indeno(1,2,3-cd)pyrene	ug/L	.5	0	.415	83		40 - 140
Naphthalene	ug/L	5	0	5.8	116		40 - 140
Phenanthrene	ug/L	.4	0	.364	91		40 - 140
Pyrene	ug/L	1	0	.87	87		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3E

WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

SAMPLE NO : *128901*

COMPOUND	*UNITS*	*SPIKE ADDED*	*LCSD CONC.*	*LCSD % REC*	*REC FLAG*	*% RPD*	*RPD FLAG*	*QC. LIMITS REC*	*QC. LIMITS RPD*
1-Methylnaphthalene	ug/L	10	9.61	96		.4		40 - 140	0 - 30
2-Methylnaphthalene	ug/L	10	8.4	84		5		40 - 140	0 - 30
Acenaphthene	ug/L	10	8.93	89		2		40 - 140	0 - 30
Acenaphthylene	ug/L	5	4.61	92		2		40 - 140	0 - 30
Anthracene	ug/L	.2	.215	108		13		40 - 140	0 - 30
Benzo(a)anthracene	ug/L	.5	.461	92		2		40 - 140	0 - 30
Benzo(a)pyrene	ug/L	.5	.487	97		2		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/L	.2	.245	123		13		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/L	.8	.697	87		10		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/L	.2	.183	92		16		40 - 140	0 - 30
Chrysene	ug/L	.5	.438	88		9		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/L	2	1.48	74		9		40 - 140	0 - 30
Fluoranthene	ug/L	.5	.469	94		9		40 - 140	0 - 30
Fluorene	ug/L	1	.943	94		6		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/L	.5	.443	89		7		40 - 140	0 - 30
Naphthalene	ug/L	5	6.09	122		5		40 - 140	0 - 30
Phenanthrene	ug/L	.4	.378	95		4		40 - 140	0 - 30
Pyrene	ug/L	1	.877	88		.8		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike HSN : 129801

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*LCS CONCENTRATION*	*LCS % REC*	*LCS % REC FLAG*	*QC. LIMITS*
1-Methylnaphthalene	ug/kg	167	0	196	118		40 - 140
2-Methylnaphthalene	ug/kg	167	0	166	100		40 - 140
Acenaphthene	ug/kg	167	0	167	100		40 - 140
Acenaphthylene	ug/kg	167	0	188	113		40 - 140
Anthracene	ug/kg	167	0	173	104		40 - 140
Benzo(a)anthracene	ug/kg	167	0	175	105		40 - 140
Benzo(a)pyrene	ug/kg	167	0	163	98		40 - 140
Benzo(b)fluoranthene	ug/kg	167	0	162	97		40 - 140
Benzo(g,h,i)perylene	ug/kg	167	0	118	71		40 - 140
Benzo(k)fluoranthene	ug/kg	167	0	157	94		40 - 140
Chrysene	ug/kg	167	0	177	106		40 - 140
Dibenz(a,h)anthracene	ug/kg	167	0	108	65		40 - 140
Fluoranthene	ug/kg	167	0	174	104		40 - 140
Fluorene	ug/kg	167	0	179	107		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	167	0	136	82		40 - 140
Naphthalene	ug/kg	167	0	176	106		40 - 140
Phenanthrene	ug/kg	167	0	183	110		40 - 140
Pyrene	ug/kg	167	0	186	112		40 - 140

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike Dupe HSN : 129802

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	167	203	122		4		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	167	178	107		7		40 - 140	0 - 30
Acenaphthene	ug/kg	167	158	95		6		40 - 140	0 - 30
Acenaphthylene	ug/kg	167	194	116		3		40 - 140	0 - 30
Anthracene	ug/kg	167	180	108		4		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	167	182	109		4		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	167	172	103		5		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	167	168	101		4		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	167	128	77		8		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	167	171	103		9		40 - 140	0 - 30
Chrysene	ug/kg	167	183	110		3		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	167	122	73		12		40 - 140	0 - 30
Fluoranthene	ug/kg	167	175	105		.6		40 - 140	0 - 30
Fluorene	ug/kg	167	186	112		4		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	167	139	83		2		40 - 140	0 - 30
Naphthalene	ug/kg	167	182	109		3		40 - 140	0 - 30
Phenanthrene	ug/kg	167	190	114		4		40 - 140	0 - 30
Pyrene	ug/kg	167	195	117		5		40 - 140	0 - 30

RPD : 0 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike HSN : 2031106241

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*MS % REC FLAG*	*QC. LIMITS*
1-Methylnaphthalene	ug/kg	195	0	240	124		40 - 140
2-Methylnaphthalene	ug/kg	195	0	214	110		40 - 140
Acenaphthene	ug/kg	195	0	135	70		40 - 140
Acenaphthylene	ug/kg	195	0	177	91		40 - 140
Anthracene	ug/kg	195	0	182	94		40 - 140
Benzo(a)anthracene	ug/kg	195	28.9	241	109		40 - 140
Benzo(a)pyrene	ug/kg	195	0	168	86		40 - 140
Benzo(b)fluoranthene	ug/kg	195	0	196	101		40 - 140
Benzo(g,h,i)perylene	ug/kg	195	0	140	72		40 - 140
Benzo(k)fluoranthene	ug/kg	195	0	183	94		40 - 140
Chrysene	ug/kg	195	0	249	128		40 - 140
Dibenz(a,h)anthracene	ug/kg	195	0	270	139		40 - 140
Fluoranthene	ug/kg	195	0	195	100		40 - 140
Fluorene	ug/kg	195	0	203	104		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	195	0	179	92		40 - 140
Naphthalene	ug/kg	195	0	136	70		40 - 140
Phenanthrene	ug/kg	195	23	198	90		40 - 140
Pyrene	ug/kg	195	0	198	102		40 - 140

RPD : 1 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike Dupe HSN : 2031106241

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	195	226	116		6		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	195	189	97		13		40 - 140	0 - 30
Acenaphthene	ug/kg	195	124	64		9		40 - 140	0 - 30
Acenaphthylene	ug/kg	195	198	102		11		40 - 140	0 - 30
Anthracene	ug/kg	195	171	88		6		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	195	211	94		13		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	195	142	73		17		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	195	164	85		17		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	195	114	59		20		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	195	160	82		14		40 - 140	0 - 30
Chrysene	ug/kg	195	206	106		19		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	195	165	85		48	*	40 - 140	0 - 30
Fluoranthene	ug/kg	195	182	94		7		40 - 140	0 - 30
Fluorene	ug/kg	195	160	82		24		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	195	156	80		14		40 - 140	0 - 30
Naphthalene	ug/kg	195	139	71		2		40 - 140	0 - 30
Phenanthrene	ug/kg	195	168	75		17		40 - 140	0 - 30
Pyrene	ug/kg	195	164	85		19		40 - 140	0 - 30

RPD : 1 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID MB128899

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 128899

SAS No.: SDG No.: 203110624

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 11/08/03

Date Analyzed (1): 11/10/03 Time (1): 1517

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: 265029 Analytical Batch: 265125

Lab File ID: 031110P/H00056

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS128900	128900	11/10/03	1524		
2.	LCSD128901	128901	11/10/03	1531		
3.	86-EB1-W-1105-03	20311062420	11/10/03	1545		
4.	86-EB2-W-1105-03	20311062421	11/10/03	1551		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Lab Code: LA024 Case No.:

Lab Sample ID: 129800

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Analyzed (1): 11/12/03 Time (1): 1153

Instrument ID (1): HPLC 1

GC Column (1): 201TP-0.15 ID: 2.1 (mm)

Method: SW-846 8310

Lab File ID: 031112/H000569

Sample ID MB129800

Contract:

SAS No.: SDG No.: 203110624

Date Extracted: 11/11/03

Date Analyzed (2): Time (2):

Instrument ID (2):

GC Column (2): ID: (mm)

Prep Batch: 265228 Analytical Batch: 265256

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS129801	129801	11/12/03	1200		
2.	LCSD129802	129802	11/12/03	1207		
3.	86-B7-S-1105-03	20311062401	11/12/03	1229		
4.	86-B31-S-1105-03	20311062402	11/12/03	1236		
5.	86-B41-S-1105-03	20311062403	11/12/03	1242		
6.	86-B99-S-1105-03	20311062406	11/12/03	1303		
7.	86-B104-S-1105-03	20311062408	11/12/03	1412		
8.	86-B106-S-1105-03	20311062409	11/12/03	1436		
9.	86-B110-S-1105-03	20311062410	11/12/03	1443		
10.	86-B137-S-1105-03	20311062411	11/12/03	1450		
11.	86-B146-S-1105-03	20311062412	11/12/03	1457		
12.	86-B158-S-1105-03	20311062413	11/12/03	1504		
13.	86-B167-S-1105-03	20311062414	11/12/03	1511		
14.	86-DUP2-S-1010-02	20311062419	11/12/03	1525		
15.	86-B189-S-1105-03	20311062415	11/12/03	1532		
16.	86-B70-S-1105-03	20311062404	11/12/03	1632		
17.	86-B96-S-1105-03	20311062405	11/12/03	1639		
18.	86-B101-S-1105-03	20311062407	11/12/03	1702		
19.	86-MS-S-1105-03	20311062416	11/12/03	1709		
20.	86-MSD-S-1105-03	20311062417	11/12/03	1716		
21.	86-DUP1-S-1010-02	20311062418	11/12/03	1723		

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2003 07:49
End Cal Date : 03-OCT-2003 08:38
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031003.b/flpnauv.m
Cal Date : 30-Oct-2003 12:14 jdt
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc1.i/031003.b/h0005408.d
Level 2: /var/chem/hplc1.i/031003.b/h0005407.d
Level 3: /var/chem/hplc1.i/031003.b/h0005406.d
Level 4: /var/chem/hplc1.i/031003.b/h0005405.d
Level 5: /var/chem/hplc1.i/031003.b/h0005404.d
Level 6: /var/chem/hplc1.i/031003.b/h0005403.d
Level 7: /var/chem/hplc1.i/031003.b/h0005402.d
Level 8: /var/chem/hplc1.i/031003.b/h0005401.d

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8						
1 Naphthalene	+++++	1956	2412	2172	2576	2663		
	2542	2516					2405	10.502
2 Acenaphthylene	+++++	+++++	+++++	1579	1544	1728		
	1667	1661					1636	4.499
3 1-Methynaphthalene	+++++	+++++	+++++	1279	1321	1471		
	1435	1382					1378	5.726
4 2-Methylnaphthalene	+++++	+++++	+++++	1876	1950	2067		
	2003	2034					1986	3.773
5 Acenaphthene	+++++	+++++	+++++	819	1039	1125		
	1042	984					1002	11.380
6 Fluorene	+++++	+++++	10842	11128	11448	11633		
	11494	11413					11327	2.555
7 Phenanthrene	26090	26436	25024	25745	25979	26371		
	25918	25666					25904	1.725

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2003 07:49
End Cal Date : 03-OCT-2003 08:38
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031003.b/flpnauv.m
Cal Date : 30-Oct-2003 12:14 jdt
Curve Type : Average

Compound	0.10000 Level 1 / 10.000 Level 7	0.25000 Level 2 / 20.000 Level 8	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
8 Anthracene	58300	55936	54314	56191	56070	55827		
	53855	50797					55161	4.010
9 Fluoranthene	7260	7616	6548	6785	7230	7413		
	7313	7172					7167	4.790
10 Pyrene	5560	5336	5574	5439	5940	6131		
	6067	5928					5747	5.297
12 Benzo(a)Anthracene	15220	15096	15696	15444	16350	16477		
	16970	16827					16010	4.603
13 Chrysene	25330	24332	24144	25268	26782	26794		
	27690	27180					25940	5.187
14 Benzo(b)Fluoranthene	19810	19296	19986	20637	20071	20109		
	21046	19996					20119	2.614
15 Benzo(k)Fluoranthene	10680	11840	11996	12389	12872	12773		
	13057	12696					12288	6.316
16 Benzo(a)Pyrene	16030	17848	16838	16994	18590	18485		
	18899	18377					17758	5.762
17 Dibenzo(a,h)Anthracene	4630	4816	4642	4149	4382	4179		
	4275	4126					4400	6.000
18 Benzo(g,h,i)Perylene	6910	8440	7566	6351	7240	7053		
	7079	7030					7209	8.360

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

tart Cal Date : 03-OCT-2003 07:49
nd Cal Date : 03-OCT-2003 08:38
uant Method : ESTD
rigin : Disabled
arget Version : 3.50
ntegrator : Falcon
ethod file : /var/chem/hplc1.i/031003.b/flpnauv.m
al Date : 30-Oct-2003 12:14 jdt
urve 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	+++++	14572	16552	14347	15532	15268		
	15256	15127					15236	4.690
5 11 p-Terphenyl	6210	6376	6532	6722	6932	6958		
	7258	7138					6766	5.481

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005676.d
Analysis Type: WATER
Lab Sample ID: 1110STD05
Method: /var/chem/hplc1.i/031110p.b/flpnauv.m

Injection Date: 10-NOV-2003 14:31
Init. Cal. Date(s): 03-OCT-2003 03-OCT-2003
Init. Cal. Times: 07:49 08:38
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2405	2598	0.010	-7.99549	15.00000	Averaged
	2 Acenaphthylene	1636	1649	0.010	-0.83392	15.00000	Averaged
	3 1-Methynaphthalene	1378	1416	0.010	-2.79550	15.00000	Averaged
	4 2-Methylnaphthalene	1986	2053	0.010	-3.37615	15.00000	Averaged
	5 Acenaphthene	1002	940	0.010	6.12473	15.00000	Averaged
	6 Fluorene	11327	11675	0.010	-3.07627	15.00000	Averaged
	7 Phenanthrene	25904	26912	0.010	-3.89367	15.00000	Averaged
	8 Anthracene	55161	57724	0.010	-4.64534	15.00000	Averaged
	9 Fluoranthene	7167	7449	0.010	-3.93628	15.00000	Averaged
	10 Pyrene	5747	6353	0.010	-10.53938	15.00000	Averaged
$	11 p-Terphenyl	6766	6866	0.010	-1.48319	15.00000	Averaged
	12 Benzo(a)Anthracene	16010	16140	0.010	-0.81448	15.00000	Averaged
	13 Chrysene	25940	26628	0.010	-2.65109	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20119	20285	0.010	-0.82459	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12288	12675	0.010	-3.14761	15.00000	Averaged
	16 Benzo(a)Pyrene	17758	18162	0.010	-2.27797	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4400	3890	0.010	11.59416	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	7209	6652	0.010	7.72491	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15236	15054	0.010	1.19278	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.61697
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 10-NOV-2003 16:48
Lab File ID: h0005683.d Init. Cal. Date(s): 03-OCT-2003 03-OCT-2003
Analysis Type: WATER Init. Cal. Times: 07:49 08:38
Lab Sample ID: 1110STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/031110p.b/flpnauv.m

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2405	2211	0.010	8.08244	15.00000	Averaged
	2 Acenaphthylene	1636	1540	0.010	5.86682	15.00000	Averaged
	3 1-Methynaphthalene	1378	1349	0.010	2.07685	15.00000	Averaged
	4 2-Methylnaphthalene	1986	1943	0.010	2.18682	15.00000	Averaged
	5 Acenaphthene	1002	885	0.010	11.69049	15.00000	Averaged
	6 Fluorene	11327	11635	0.010	-2.72665	15.00000	Averaged
	7 Phenanthrene	25904	26820	0.010	-3.53944	15.00000	Averaged
	8 Anthracene	55161	57469	0.010	-4.18414	15.00000	Averaged
	9 Fluoranthene	7167	7285	0.010	-1.64914	15.00000	Averaged
	10 Pyrene	5747	5944	0.010	-3.42873	15.00000	Averaged
$	11 p-Terphenyl	6766	6833	0.010	-0.99840	15.00000	Averaged
	12 Benzo(a)Anthracene	16010	16129	0.010	-0.74252	15.00000	Averaged
	13 Chrysene	25940	26476	0.010	-2.06759	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20119	20971	0.010	-4.23629	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12288	13023	0.010	-5.97965	15.00000	Averaged
	16 Benzo(a)Pyrene	17758	18412	0.010	-3.68627	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4400	3861	0.010	12.23965	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	7209	6574	0.010	8.81027	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	15236	14698	0.010	3.53037	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.61697
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2003 07:49
End Cal Date : 03-OCT-2003 08:38
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031003f.b/flpnafld.m
Cal Date : 30-Oct-2003 12:14 jdt

Calibration File Names:
Level 1: /var/chem/hplc1.i/031003f.b/h0005408.d
Level 2: /var/chem/hplc1.i/031003f.b/h0005407.d
Level 3: /var/chem/hplc1.i/031003f.b/h0005406.d
Level 4: /var/chem/hplc1.i/031003f.b/h0005405.d
Level 5: /var/chem/hplc1.i/031003f.b/h0005404.d
Level 6: /var/chem/hplc1.i/031003f.b/h0005403.d
Level 7: /var/chem/hplc1.i/031003f.b/h0005402.d
Level 8: /var/chem/hplc1.i/031003f.b/h0005401.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	+++++	11452	12064	12276	10980	10725					
	10674	10790					AVRG		11280		5.88159
3 1-Methynaphthalene	+++++	+++++	+++++	1485	1110	1308					
	1759	1275					AVRG		1387		17.78700
4 2-Methylnaphthalene	+++++	+++++	+++++	1368	1189	1301					
	1577	1261					AVRG		1339		11.04595
5 Acenaphthene	+++++	+++++	+++++	3957	3872	4022					
	4193	3986					AVRG		4006		2.95185
7 Phenanthrene	16730	14960	15864	15680	16045	16271					
	16768	15863					AVRG		16023		3.66623

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2003 07:49
End Cal Date : 03-OCT-2003 08:38
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031003f.b/flpnafld.m
Cal Date : 30-Oct-2003 12:14 jdt

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	6850	4740	5886	5492	5630	5609					
	5758	5284					AVRG		5656		10.55775
9 Fluoranthene	5730	5812	5128	5170	5547	5614					
	5630	5506					AVRG		5517		4.47865
10 Pyrene	34060	33972	33018	33063	35143	35933					
	34926	+++++					AVRG		34302		3.17299
12 Benzo(a)Anthracene	24390	26936	27260	28397	29013	29488					
	29092	+++++					AVRG		27797		6.40393
13 Chrysene	207	572	1192	3075	9099	19441					
	39670	80765					LINR	0.000e+00	4012		0.99936
14 Benzo(b)Fluoranthene	23860	23304	23066	23116	23533	24123					
	24296	+++++					AVRG		23614		2.07157
15 Benzo(k)Fluoranthene	55240	53132	52342	52928	53506	54201					
	43799	+++++					AVRG		52164		7.29761
16 Benzo(a)Pyrene	45600	42292	43360	44085	45313	46297					
	41767	+++++					AVRG		44102		3.90623
17 Dibenzo(a,h)Anthracene	18820	17428	17018	17188	17064	17381					
	17585	17066					AVRG		17444		3.39253

000435

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-OCT-2003 07:49
End Cal Date : 03-OCT-2003 08:38
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031003f.b/flpnafld.m
Cal Date : 30-Oct-2003 12:14 jdt

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	16680	15036	14006	14263	14537	14995					
	15377	15516					AVRG		15051		5.59094
19 Indeno(1,2,3-c,d)Pyrene	+++++	5172	4130	4150	4753	4999					
	4917	4809					AVRG		4704		8.68431
$ 11 p-Terphenyl	+++++	7824	8436	9016	9508	9765					
	9703	9700					AVRG		9136		8.23832

0004436

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 10-NOV-2003 14:31
Lab File ID: h0005676.d Init. Cal. Date(s): 03-OCT-2003 03-OCT-2003
Analysis Type: WATER Init. Cal. Times: 07:49 08:38
Lab Sample ID: 1110STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/031110pf.b/flpnafld.m

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	11280	10381	10381	0.010	7.97498	15.00000	Averaged
	3 1-Methynaphthalene	1387	1474	1474	0.010	-6.24036	15.00000	Averaged
	4 2-Methylnaphthalene	1339	1298	1298	0.010	3.09268	15.00000	Averaged
	5 Acenaphthene	4006	3758	3758	0.010	6.19646	15.00000	Averaged
	7 Phenanthrene	16023	16157	16157	0.010	-0.83984	15.00000	Averaged
	8 Anthracene	5656	5692	5692	0.010	-0.63978	15.00000	Averaged
	9 Fluoranthene	5517	5857	5857	0.010	-6.16412	15.00000	Averaged
	10 Pyrene	34302	34663	34663	0.010	-1.05115	15.00000	Averaged
$	11 p-Terphenyl	9136	9400	9400	0.010	-2.89469	15.00000	Averaged
	12 Benzo(a)Anthracene	27797	30153	30153	0.010	-8.47614	15.00000	Averaged
	13 Chrysene	2.23943	2.50000	3594	0.010	10.42275	15.00000	Linear
	14 Benzo(b)Fluoranthene	23614	23841	23841	0.010	-0.96291	15.00000	Averaged
	15 Benzo(k)Fluoranthene	52164	53532	53532	0.010	-2.62231	15.00000	Averaged
	16 Benzo(a)Pyrene	44102	45670	45670	0.010	-3.55457	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	17444	17066	17066	0.010	2.16613	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	15051	14335	14335	0.010	4.75730	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4704	4255	4255	0.010	9.55802	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.21331
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005683.d
Analysis Type: WATER
Lab Sample ID: 1110STD05
Method: /var/chem/hplc1.i/031110pf.b/flpnafld.m

Injection Date: 10-NOV-2003 16:48
Init. Cal. Date(s): 03-OCT-2003 03-OCT-2003
Init. Cal. Times: 07:49 08:38
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	11280	11172	11172	0.010	0.95914	15.00000	Averaged
	3 1-Methynaphthalene	1387	1308	1308	0.010	5.69546	15.00000	Averaged
	4 2-Methylnaphthalene	1339	1212	1212	0.010	9.45279	15.00000	Averaged
	5 Acenaphthene	4006	3855	3855	0.010	3.77818	15.00000	Averaged
	7 Phenanthrene	16023	16204	16204	0.010	-1.12918	15.00000	Averaged
	8 Anthracene	5656	5728	5728	0.010	-1.27625	15.00000	Averaged
	9 Fluoranthene	5517	5765	5765	0.010	-4.49515	15.00000	Averaged
	10 Pyrene	34302	34452	34452	0.010	-0.43579	15.00000	Averaged
$	11 p-Terphenyl	9136	9371	9371	0.010	-2.57069	15.00000	Averaged
	12 Benzo(a)Anthracene	27797	30017	30017	0.010	-7.98902	15.00000	Averaged
	13 Chrysene	2.23582	2.50000	3588	0.010	10.56732	15.00000	Linear
	14 Benzo(b)Fluoranthene	23614	23633	23633	0.010	-0.08107	15.00000	Averaged
	15 Benzo(k)Fluoranthene	52164	53263	53263	0.010	-2.10709	15.00000	Averaged
	16 Benzo(a)Pyrene	44102	44527	44527	0.010	-0.96312	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	17444	16719	16719	0.010	4.15422	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	15051	14001	14001	0.010	6.97665	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4704	4281	4281	0.010	8.99514	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.21331
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112.b/flpnauv.m
Cal Date : 12-Nov-2003 17:44 jdt
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/hplc1.i/031112.b/h0005692.d
Level 2: /var/chem/hplc1.i/031112.b/h0005691.d
Level 3: /var/chem/hplc1.i/031112.b/h0005690.d
Level 4: /var/chem/hplc1.i/031112.b/h0005689.d
Level 5: /var/chem/hplc1.i/031112.b/h0005688.d
Level 6: /var/chem/hplc1.i/031112.b/h0005687.d
Level 7: /var/chem/hplc1.i/031112.b/h0005686.d
Level 8: /var/chem/hplc1.i/031112.b/h0005685.d

Compound	0.10000 Level 1	0.25000 Level 2	0.50000 Level 3	1.000 Level 4	2.500 Level 5	5.000 Level 6	RRF	% RSD
	10.000 Level 7	20.000 Level 8						
1 Naphthalene	+++++	2868	2102	2085	2490	2552		
	2358	2651					2444	11.689
2 Acenaphthylene	+++++	+++++	+++++	1584	1552	1696		
	1626	1789					1649	5.730
3 1-Methynaphthalene	+++++	+++++	+++++	1261	1308	1413		
	1354	1480					1363	6.338
4 2-Methylnaphthalene	+++++	+++++	+++++	1779	1974	1996		
	1976	2033					1952	5.091
5 Acenaphthene	+++++	+++++	+++++	806	879	1011		
	923	1059					935	10.813
6 Fluorene	+++++	+++++	11058	11219	11281	11562		
	11366	11511					11333	1.659
7 Phenanthrene	26960	24992	25640	25888	25831	26169		
	25797	25922					25900	2.117

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112.b/flpnauv.m
Cal Date : 12-Nov-2003 17:44 jdt
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	61940	57368	57084	56779	55514	55710		
	53738	51445					56197	5.414
9 Fluoranthene	8670	7048	7476	7146	6660	7244		
	6899	7304					7306	8.290
10 Pyrene	6200	5372	6502	5693	5730	5922		
	5775	6127					5915	5.956
12 Benzo(a)Anthracene	16510	15544	16240	15778	16026	16495		
	16221	16928					16218	2.709
13 Chrysene	25270	23936	27578	25376	26453	26773		
	26586	27477					26181	4.730
14 Benzo(b)Fluoranthene	21330	19988	20572	19542	19969	19957		
	19881	20236					20184	2.718
15 Benzo(k)Fluoranthene	11920	11816	12134	12231	12679	12693		
	12577	12738					12348	2.997
16 Benzo(a)Pyrene	18750	16396	17060	17874	18587	18509		
	18413	18634					18028	4.783
17 Dibenzo(a,h)Anthracene	4320	4472	3508	3949	3963	3947		
	3958	4070					4023	7.131
18 Benzo(g,h,i)Perylene	6380	6088	6352	6201	6763	6740		
	6764	6950					6530	4.798

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112.b/flpnauv.m
Cal Date : 12-Nov-2003 17:44 jdt
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	+++++	13708	13998	14350	15084	14893		
	15038	15102					14596	3.940
$ 11 p-Terphenyl	7820	7068	6882	6576	6769	6924		
	6796	7160					6999	5.393

Data File: /var/chem/hplc1.i/031112.b/h0005704.d
Report Date: 12-Nov-2003 17:44

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005704.d
Analysis Type: SOIL
Lab Sample ID: 1112STD05
Method: /var/chem/hplc1.i/031112.b/flpnauv.m

Injection Date: 12-NOV-2003 13:59
Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Init. Cal. Times: 09:38 10:39
Quant Type: ESTD

COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Naphthalene	2444	2511	0.010	-2.74854	15.00000	Averaged
2 Acenaphthylene	1649	1514	0.010	8.18646	15.00000	Averaged
3 1-Methynaphthalene	1363	1267	0.010	7.07705	15.00000	Averaged
4 2-Methylnaphthalene	1952	1782	0.010	8.66934	15.00000	Averaged
5 Acenaphthene	935	811	0.010	13.32884	15.00000	Averaged
6 Fluorene	11333	11110	0.010	1.96576	15.00000	Averaged
7 Phenanthrene	25900	25761	0.010	0.53714	15.00000	Averaged
8 Anthracene	56197	56155	0.010	0.07495	15.00000	Averaged
9 Fluoranthene	7306	7141	0.010	2.25426	15.00000	Averaged
10 Pyrene	5915	5982	0.010	-1.13175	15.00000	Averaged
$ 11 p-Terphenyl	6999	6868	0.010	1.87098	15.00000	Averaged
12 Benzo(a)Anthracene	16218	15710	0.010	3.13296	15.00000	Averaged
13 Chrysene	26181	25646	0.010	2.04539	15.00000	Averaged
14 Benzo(b)Fluoranthene	20184	19402	0.010	3.87398	15.00000	Averaged
15 Benzo(k)Fluoranthene	12348	11588	0.010	6.15521	15.00000	Averaged
16 Benzo(a)Pyrene	18028	17096	0.010	5.16640	15.00000	Averaged
17 Dibenzo(a,h)Anthracene	4023	4622	0.010	-14.87779	15.00000	Averaged
18 Benzo(g,h,i)Perylene	6530	7421	0.010	-13.65257	15.00000	Averaged
19 Indeno(1,2,3-c,d)Pyrene	14596	15475	0.010	-6.02258	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.40905
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc1.i/031112.b/h0005715.d
Report Date: 12-Nov-2003 17:44

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005715.d
Analysis Type: SOIL
Lab Sample ID: 1112STD05
Method: /var/chem/hplc1.i/031112.b/flpnauv.m

Injection Date: 12-NOV-2003 15:55
Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Init. Cal. Times: 09:38 10:39
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2444	2398	0.010	1.86753	15.00000	Averaged
	2 Acenaphthylene	1649	1544	0.010	6.39191	15.00000	Averaged
	3 1-Methynaphthalene	1363	1268	0.010	6.98903	15.00000	Averaged
	4 2-Methylnaphthalene	1952	1907	0.010	2.29505	15.00000	Averaged
	5 Acenaphthene	935	893	0.010	4.52063	15.00000	Averaged
	6 Fluorene	11333	11284	0.010	0.43039	15.00000	Averaged
	7 Phenanthrene	25900	25995	0.010	-0.36788	15.00000	Averaged
	8 Anthracene	56197	56316	0.010	-0.21119	15.00000	Averaged
	9 Fluoranthene	7306	7106	0.010	2.73059	15.00000	Averaged
	10 Pyrene	5915	5904	0.010	0.18015	15.00000	Averaged
S	11 p-Terphenyl	6999	6887	0.010	1.60809	15.00000	Averaged
	12 Benzo(a)Anthracene	16218	15930	0.010	1.77395	15.00000	Averaged
	13 Chrysene	26181	26035	0.010	0.55730	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20184	20343	0.010	-0.78508	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12348	12188	0.010	1.29631	15.00000	Averaged
	16 Benzo(a)Pyrene	18028	17602	0.010	2.36406	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4023	4015	0.010	0.20396	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6530	6972	0.010	-6.77938	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14596	15104	0.010	-3.47944	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.35957
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 12-NOV-2003 17:52
Lab File ID: h0005724.d Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Analysis Type: SOIL Init. Cal. Times: 09:38 10:39
Lab Sample ID: 1112STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/031112.b/flpnauv.m

	COMPOUND	RRF / AMOUNT	RF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	2444	2331	0.010	4.61753	15.00000	Averaged
	2 Acenaphthylene	1649	1454	0.010	11.87259	15.00000	Averaged
	3 1-Methynaphthalene	1363	1310	0.010	3.90822	15.00000	Averaged
	4 2-Methylnaphthalene	1952	1955	0.010	-0.16448	15.00000	Averaged
	5 Acenaphthene	935	864	0.010	7.64198	15.00000	Averaged
	6 Fluorene	11333	11364	0.010	-0.27906	15.00000	Averaged
	7 Phenanthrene	25900	26162	0.010	-1.01344	15.00000	Averaged
	8 Anthracene	56197	56422	0.010	-0.40052	15.00000	Averaged
	9 Fluoranthene	7306	7377	0.010	-0.97601	15.00000	Averaged
	10 Pyrene	5915	6222	0.010	-5.19596	15.00000	Averaged
$	11 p-Terphenyl	6999	6743	0.010	3.66543	15.00000	Averaged
	12 Benzo(a)Anthracene	16218	15862	0.010	2.19324	15.00000	Averaged
	13 Chrysene	26181	26121	0.010	0.22881	15.00000	Averaged
	14 Benzo(b)Fluoranthene	20184	19806	0.010	1.87441	15.00000	Averaged
	15 Benzo(k)Fluoranthene	12348	11848	0.010	4.04969	15.00000	Averaged
	16 Benzo(a)Pyrene	18028	17428	0.010	3.32480	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	4023	4312	0.010	-7.16293	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	6530	7182	0.010	-9.99544	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	14596	15044	0.010	-3.06564	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.77001
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112f.b/flpnafld.m
Cal Date : 12-Nov-2003 17:47 jdt

Calibration File Names:
Level 1: /var/chem/hplc1.i/031112f.b/h0005692.d
Level 2: /var/chem/hplc1.i/031112f.b/h0005691.d
Level 3: /var/chem/hplc1.i/031112f.b/h0005690.d
Level 4: /var/chem/hplc1.i/031112f.b/h0005689.d
Level 5: /var/chem/hplc1.i/031112f.b/h0005688.d
Level 6: /var/chem/hplc1.i/031112f.b/h0005687.d
Level 7: /var/chem/hplc1.i/031112f.b/h0005686.d
Level 8: /var/chem/hplc1.i/031112f.b/h0005685.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	+++++	10064	10152	10983	11057	10357					
	10210	10603					AVRG		10489		3.83135
3 1-Methynaphthalene	+++++	+++++	+++++	2074	2017	2041					
	2079	2689					AVRG		2180		13.09524
4 2-Methylnaphthalene	+++++	+++++	+++++	1693	1720	1690					
	1712	2068					AVRG		1777		9.18176
5 Acenaphthene	+++++	+++++	+++++	4243	4342	4333					
	4466	4884					AVRG		4453		5.69050
7 Phenanthrene	16000	15088	15200	15328	15505	15828					
	16366	16495					AVRG		15726		3.37989

000445

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112f.b/flpnafld.m
Cal Date : 12-Nov-2003 17:47 jdt

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	6480	5552	5860	5515	5500	5629					
	5857	6018					AVRG		5801		5.74960
9 Fluoranthene	6280	5228	5642	5589	5463	5723					
	5863	5955					AVRG		5718		5.61162
10 Pyrene	34030	31428	34014	32622	33214	34357					
	33727	+++++					AVRG		33342		3.07382
12 Benzo(a)Anthracene	25380	26164	27586	28163	28976	29292					
	29138	+++++					AVRG		27814		5.51296
13 Chrysene	247	557	1136	2950	8907	18679					
	38829	78927					QUAD	0.000e+00	0.00027	-1.964e-10	0.99983
14 Benzo(b)Fluoranthene	24140	22608	22480	22910	23126	23505					
	23565	+++++					AVRG		23190		2.53114
15 Benzo(k)Fluoranthene	54320	51428	51582	51460	52098	52512					
	42723	+++++					AVRG		50875		7.33908
16 Benzo(a)Pyrene	46070	44148	42946	43349	44843	45748					
	41048	+++++					AVRG		44022		3.96891
17 Dibenzo(a,h)Anthracene	16820	15964	16454	16286	16345	16868					
	17091	16870					AVRG		16587		2.30372

000446

Gulf Coast Analytical Laboratories, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2003 09:38
End Cal Date : 12-NOV-2003 10:39
Quant Method : ESTD
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/hplc1.i/031112f.b/flpnafld.m
Cal Date : 12-Nov-2003 17:47 jdt

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
18 Benzo(g,h,i)Perylene	14330	13588	13890	13708	13794	14522					
	14821	15013					AVRG		14208		3.80281
19 Indeno(1,2,3-c,d)Pyrene	+++++	4632	4286	4467	4433	4706					
	4782	4774					AVRG		4583		4.15597
$ 11 p-Terphenyl	+++++	7296	8144	8621	9135	9295					
	9336	9282					AVRG		8730		8.83206

000447

Data File: /var/chem/hplc1.i/031112f.b/h0005704.d
Report Date: 12-Nov-2003 17:47

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005704.d
Analysis Type: SOIL
Lab Sample ID: 1112STD05
Method: /var/chem/hplc1.i/031112f.b/flpnafld.m

Injection Date: 12-NOV-2003 13:59
Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Init. Cal. Times: 09:38 10:39
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	10489	10526	10526	0.010	-0.34491	15.00000	Averaged
	3 1-Methynaphthalene	2180	2050	2050	0.010	5.95942	15.00000	Averaged
	4 2-Methylnaphthalene	1777	1680	1680	0.010	5.41377	15.00000	Averaged
	5 Acenaphthene	4453	4262	4262	0.010	4.29848	15.00000	Averaged
	7 Phenanthrene	15726	15934	15934	0.010	-1.31825	15.00000	Averaged
	8 Anthracene	5801	5678	5678	0.010	2.13196	15.00000	Averaged
	9 Fluoranthene	5718	5638	5638	0.010	1.39737	15.00000	Averaged
	10 Pyrene	33342	35509	35509	0.010	-6.50082	15.00000	Averaged
$	11 p-Terphenyl	8730	9369	9369	0.010	-7.31905	15.00000	Averaged
	12 Benzo(a)Anthracene	27814	30207	30207	0.010	-8.60397	15.00000	Averaged
	13 Chrysene	2.53276	2.50000	3799	0.010	-1.31040	15.00000	Quadratic
	14 Benzo(b)Fluoranthene	23190	23138	23138	0.010	0.22608	15.00000	Averaged
	15 Benzo(k)Fluoranthene	50875	51886	51886	0.010	-1.98704	15.00000	Averaged
	16 Benzo(a)Pyrene	44022	44717	44717	0.010	-1.57899	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	16587	17799	17799	0.010	-7.30631	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	14208	15911	15911	0.010	-11.98278	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4583	4792	4792	0.010	-4.57460	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.25025
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc1.i/031112f.b/h0005715.d
Report Date: 12-Nov-2003 17:47

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i
Lab File ID: h0005715.d
Analysis Type: SOIL
Lab Sample ID: 1112STD05
Method: /var/chem/hplc1.i/031112f.b/flpnafld.m

Injection Date: 12-NOV-2003 15:55
Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Init. Cal. Times: 09:38 10:39
Quant Type: ESTD

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	10489	10230	10230	0.010	2.47317	15.00000	Averaged
	3 1-Methynaphthalene	2180	2056	2056	0.010	5.66583	15.00000	Averaged
	4 2-Methylnaphthalene	1777	1710	1710	0.010	3.72513	15.00000	Averaged
	5 Acenaphthene	4453	4338	4338	0.010	2.60092	15.00000	Averaged
	7 Phenanthrene	15726	15532	15532	0.010	1.23543	15.00000	Averaged
	8 Anthracene	5801	5642	5642	0.010	2.73873	15.00000	Averaged
	9 Fluoranthene	5718	5624	5624	0.010	1.64221	15.00000	Averaged
	10 Pyrene	33342	31770	31770	0.010	4.71396	15.00000	Averaged
S	11 p-Terphenyl	8730	9140	9140	0.010	-4.69816	15.00000	Averaged
	12 Benzo(a)Anthracene	27814	28721	28721	0.010	-3.26135	15.00000	Averaged
	13 Chrysene	2.32210	2.50000	3481	0.010	7.11602	15.00000	Quadratic
	14 Benzo(b)Fluoranthene	23190	22552	22552	0.010	2.75126	15.00000	Averaged
	15 Benzo(k)Fluoranthene	50875	51102	51102	0.010	-0.44600	15.00000	Averaged
	16 Benzo(a)Pyrene	44022	42316	42316	0.010	3.87559	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	16587	16650	16650	0.010	-0.37811	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	14208	13914	13914	0.010	2.07384	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4583	4338	4338	0.010	5.34956	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.22031
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Gulf Coast Analytical Laboratories, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hplc1.i Injection Date: 12-NOV-2003 17:52
Lab File ID: h0005724.d Init. Cal. Date(s): 12-NOV-2003 12-NOV-2003
Analysis Type: SOIL Init. Cal. Times: 09:38 10:39
Lab Sample ID: 1112STD05 Quant Type: ESTD
Method: /var/chem/hplc1.i/031112f.b/flpnafld.m

	COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	1 Naphthalene	10489	10915	10915	0.010	-4.05912	15.00000	Averaged
	3 1-Methynaphthalene	2180	2077	2077	0.010	4.73001	15.00000	Averaged
	4 2-Methylnaphthalene	1777	1700	1700	0.010	4.28801	15.00000	Averaged
	5 Acenaphthene	4453	4238	4238	0.010	4.84638	15.00000	Averaged
	7 Phenanthrene	15726	15728	15728	0.010	-0.00835	15.00000	Averaged
	8 Anthracene	5801	5660	5660	0.010	2.43535	15.00000	Averaged
	9 Fluoranthene	5718	5532	5532	0.010	3.24420	15.00000	Averaged
	10 Pyrene	33342	34329	34329	0.010	-2.96171	15.00000	Averaged
$	11 p-Terphenyl	8730	9192	9192	0.010	-5.29382	15.00000	Averaged
	12 Benzo(a)Anthracene	27814	29669	29669	0.010	-6.66969	15.00000	Averaged
	13 Chrysene	2.37910	2.50000	3567	0.010	4.83620	15.00000	Quadratic
	14 Benzo(b)Fluoranthene	23190	23248	23248	0.010	-0.24653	15.00000	Averaged
	15 Benzo(k)Fluoranthene	50875	52140	52140	0.010	-2.48709	15.00000	Averaged
	16 Benzo(a)Pyrene	44022	44240	44240	0.010	-0.49680	15.00000	Averaged
	17 Dibenzo(a,h)Anthracene	16587	17050	17050	0.010	-2.78719	15.00000	Averaged
	18 Benzo(g,h,i)Perylene	14208	14709	14709	0.010	-3.52572	15.00000	Averaged
	19 Indeno(1,2,3-c,d)Pyrene	4583	4271	4271	0.010	6.80719	15.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 3.51314
Maximun Average %D/Drift = 15.00000
* Passed Average %D/Drift Test.

Data File: /var/chem/hplc1.i/031112.b/h0005697.d
Report Date: 17-Nov-2003 16:16

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005697.d
Lab Smp Id: 20311062401
Inj Date : 12-NOV-2003 12:29
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062401-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Vials bottle: 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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

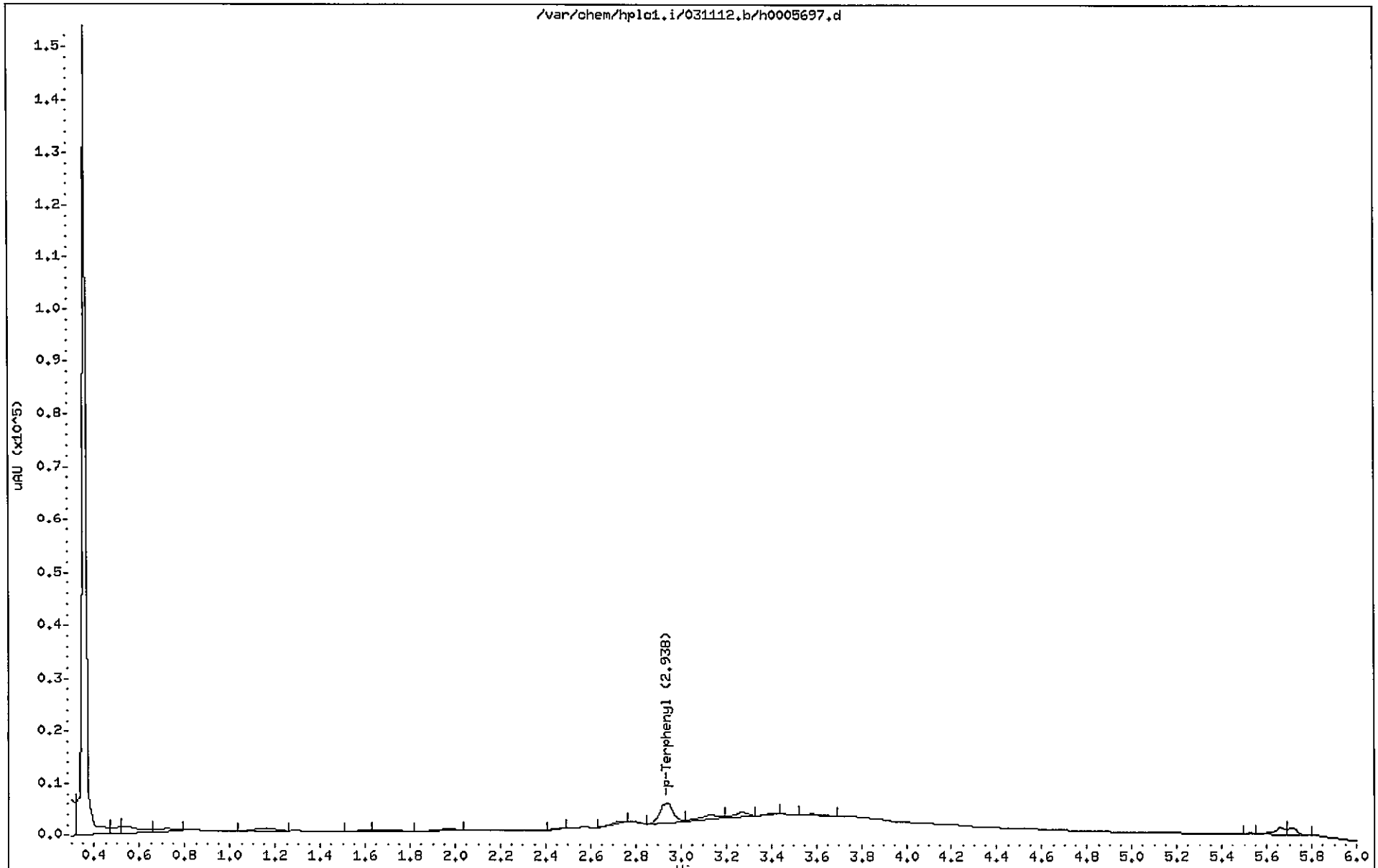
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.938	3.018	-0.080	14581	2.08319	69.4

Data File: /var/chem/hplc1.i/031112.b/h0005697.d
Date : 12-NOV-2003 12:29
Client ID:
Sample Info: 20311062401-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000452



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005697.d
Lab Smp Id: 20311062401
Inj Date : 12-NOV-2003 12:29
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062401-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

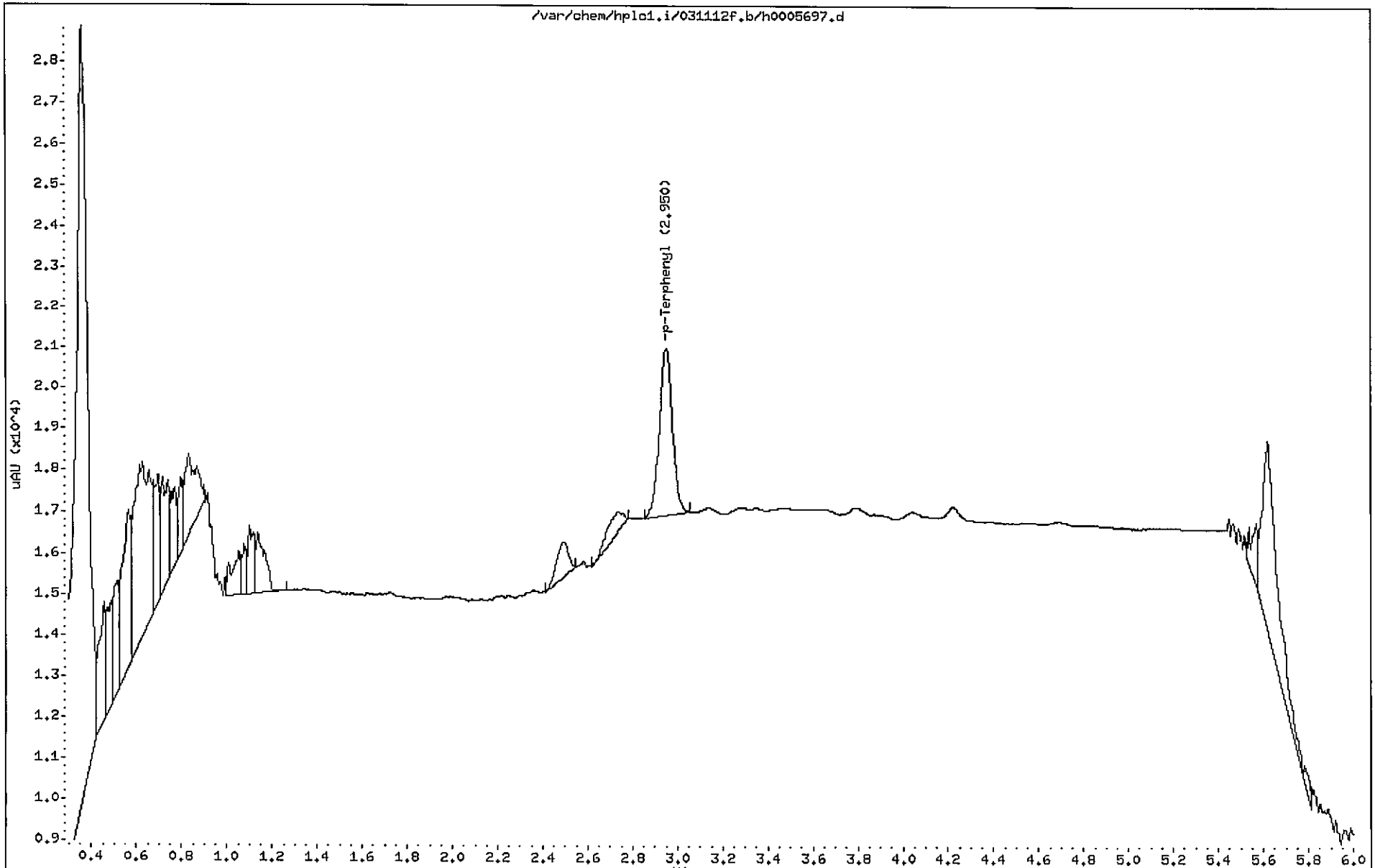
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.950	3.033	-0.083	16231	1.85925	62.0

Data File: /var/chem/hplc1.i/031112f.b/h0005697.d
Date : 12-NOV-2003 12:29
Client ID:
Sample Info: 20311062401-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000454



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005698.d
Lab Smp Id: 20311062402
Inj Date : 12-NOV-2003 12:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062402-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

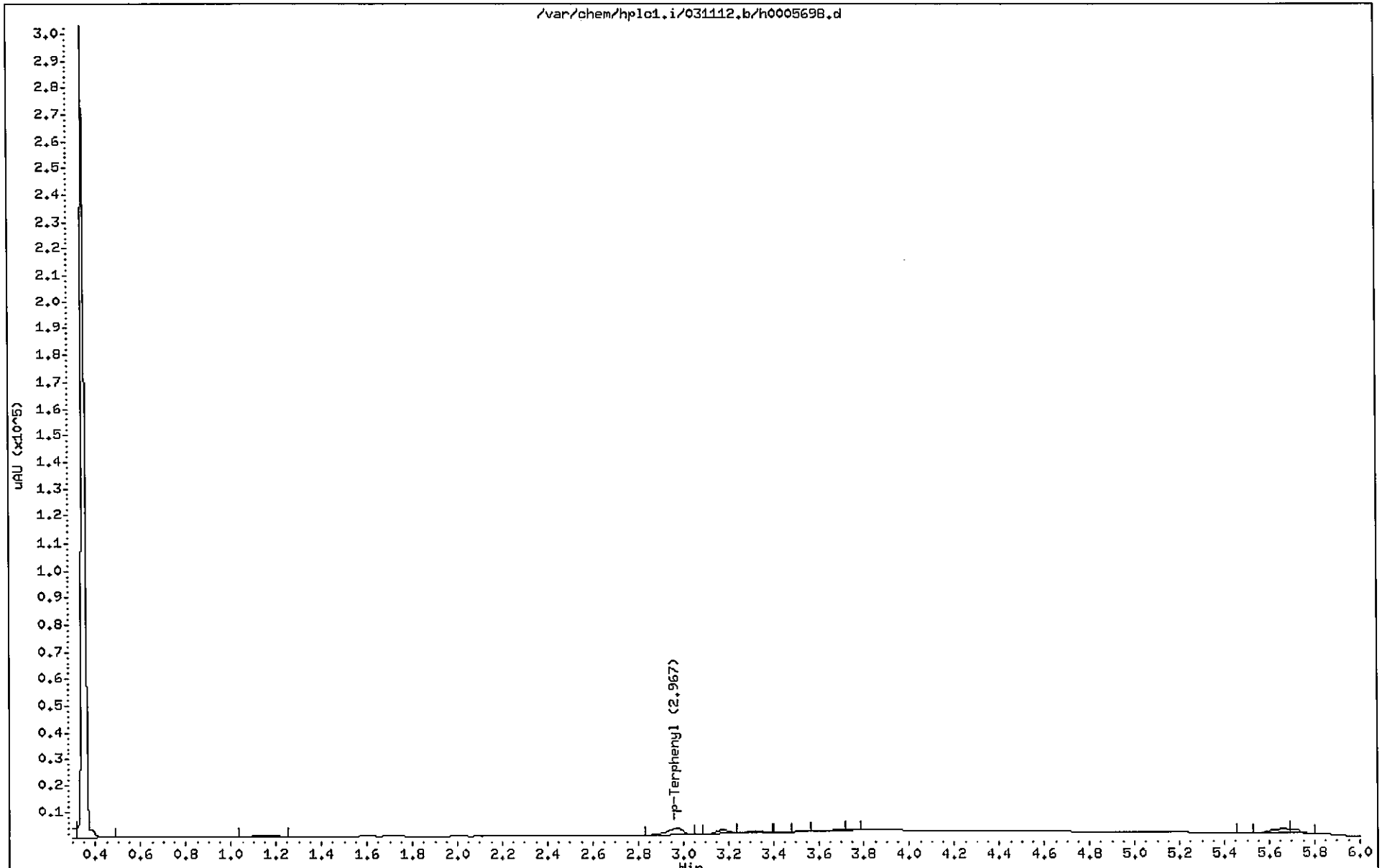
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.967	3.018	-0.051	10607	1.51543	50.5

Data File: /var/chem/hplc1.i/031112.b/h0005698.d
Date : 12-NOV-2003 12:36
Client ID:
Sample Info: 20311062402-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000456



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005698.d
Lab Smp Id: 20311062402
Inj Date : 12-NOV-2003 12:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062402-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

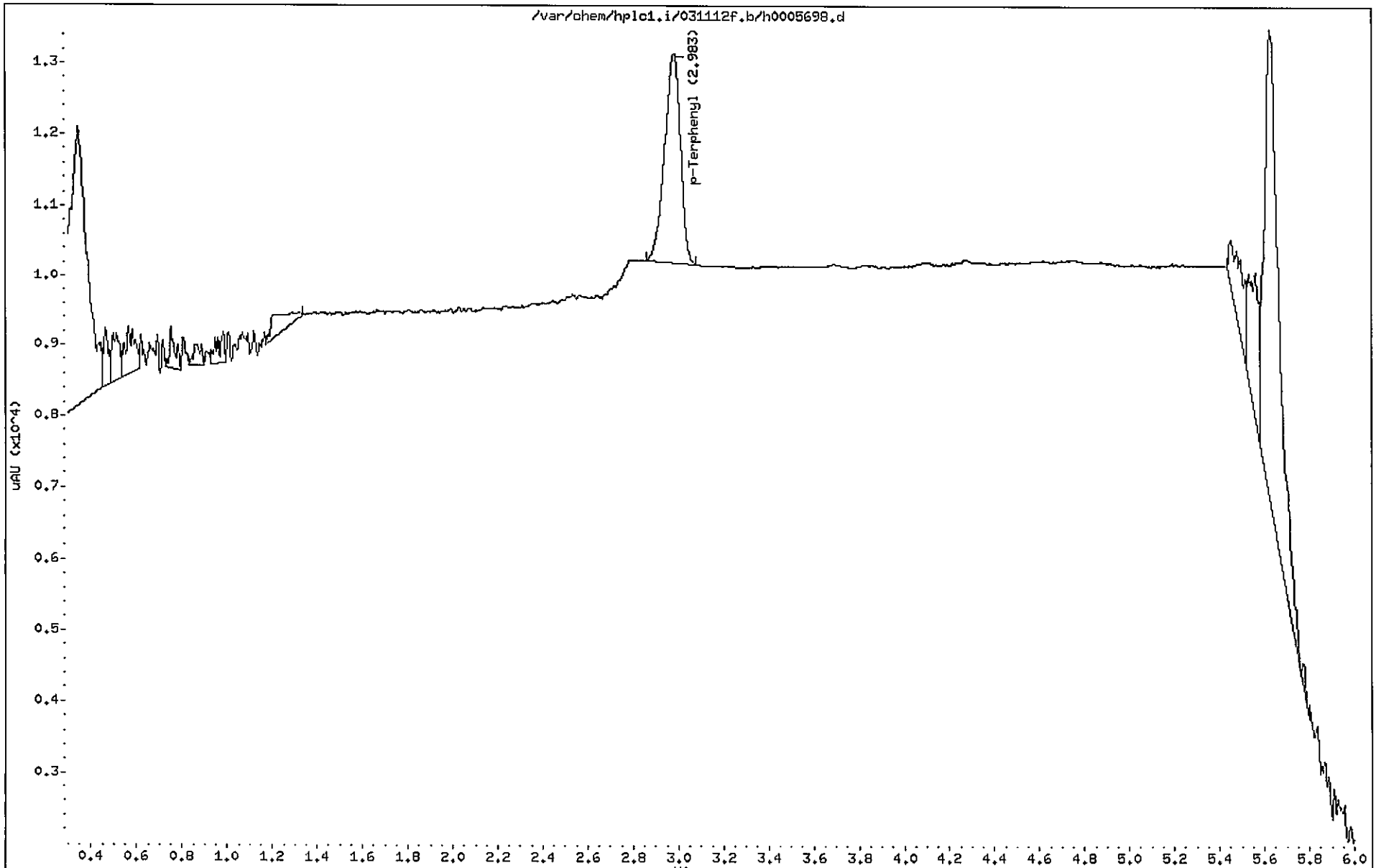
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.983	3.033	-0.050	14273	1.63501	54.5

Data File: /var/chem/hplc1.i/031112f.b/h0005698.d
Date : 12-NOV-2003 12:36
Client ID:
Sample Info: 20311062402-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000458



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005699.d
Lab Smp Id: 20311062403
Inj Date : 12-NOV-2003 12:42
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062403-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
3 1-Methynaphthalene	1.372	1.368	0.004	2278	1.67097	55.7(MH)
11 p-Terphenyl	2.978	3.018	-0.040	16692	2.38479	79.5(M)
14 Benzo(b)Fluoranthene	3.798	3.878	-0.080	753	0.03731	1.24
16 Benzo(a)Pyrene	4.132	4.212	-0.080	664	0.03683	1.23(M)

QC Flag Legend

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

Data File: /var/chem/hplc1.i/031112.b/h0005699.d

Date : 12-NOV-2003 12:42

Client ID:

Sample Info: 20311062403-DL1

Volume Injected (uL): 10.0

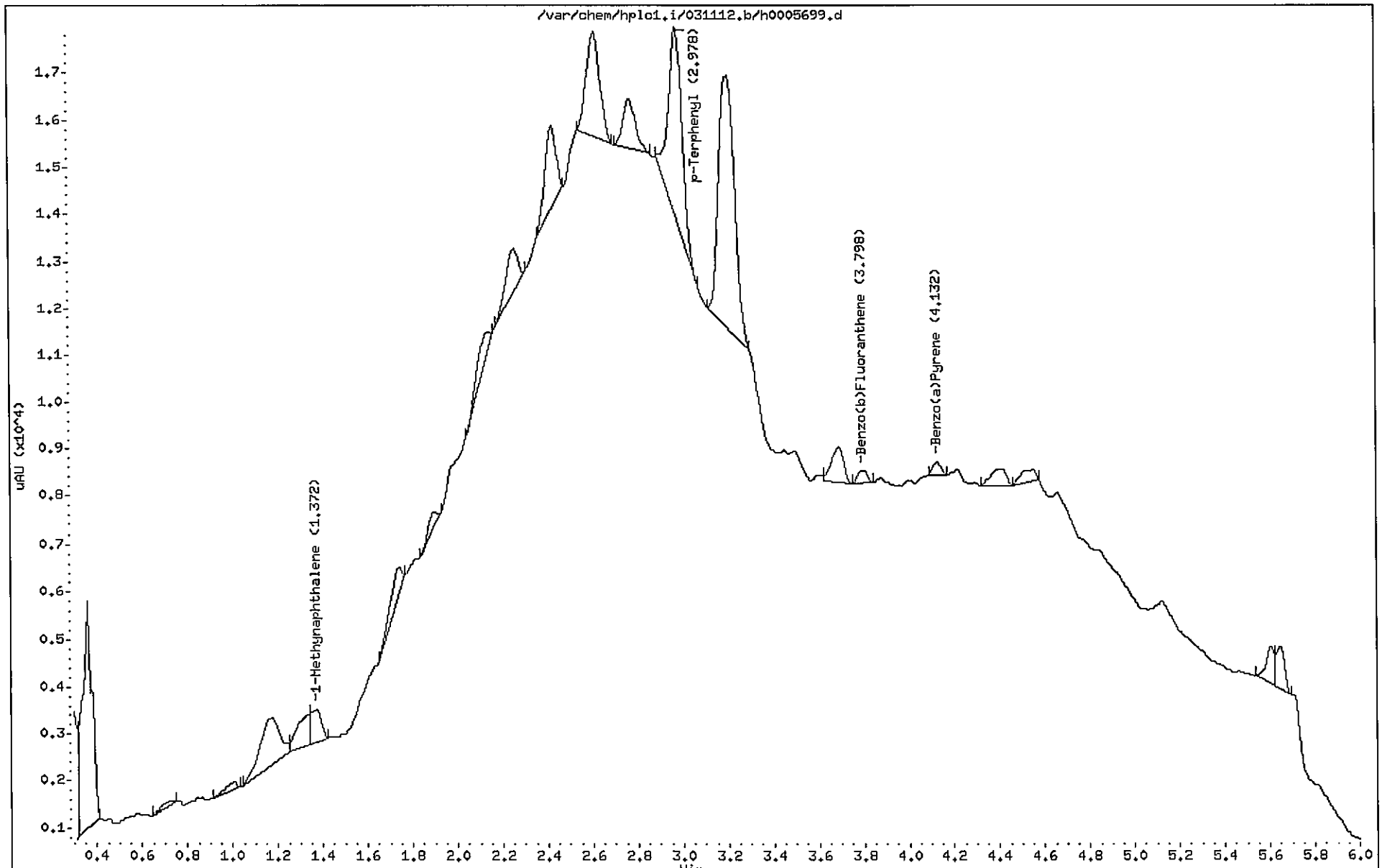
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000460



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005699.d
Lab Smp Id: 20311062403
Inj Date : 12-NOV-2003 12:42
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062403-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
3 1-Methynaphthalene	1.387	1.387	0.000	19716	9.04441	301(M)
11 p-Terphenyl	2.997	3.033	-0.036	16727	1.91607	63.9
14 Benzo(b)Fluoranthene	3.703	3.890	-0.187	865	0.03730	1.24
16 Benzo(a)Pyrene	4.157	4.220	-0.063	1109	0.02519	0.840

QC Flag Legend

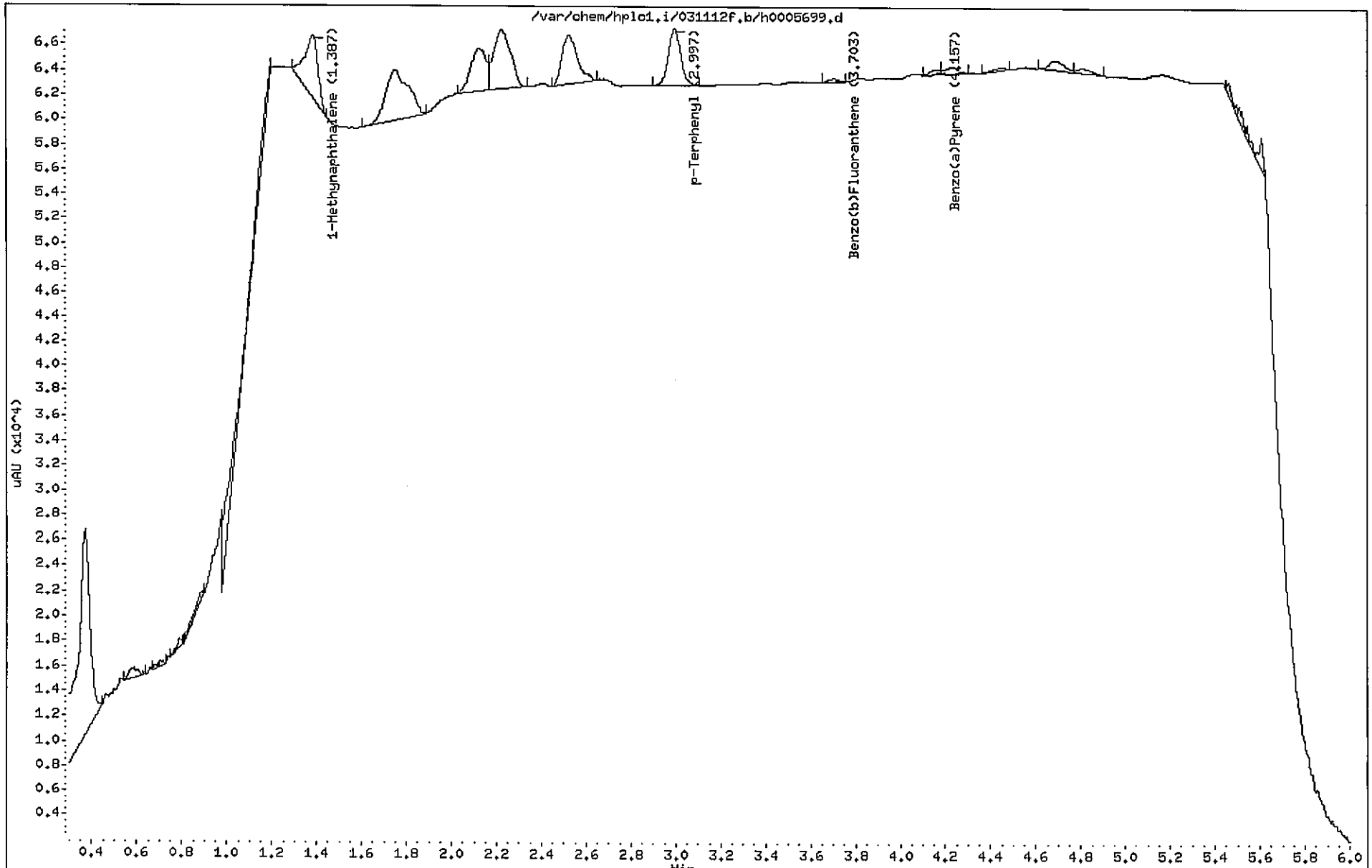
I - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005699.d
Date : 12-NOV-2003 12:42
Client ID:
Sample Info: 20311062403-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000162



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005718.d
Lab Smp Id: 20311062404
Inj Date : 12-NOV-2003 16:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062404-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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

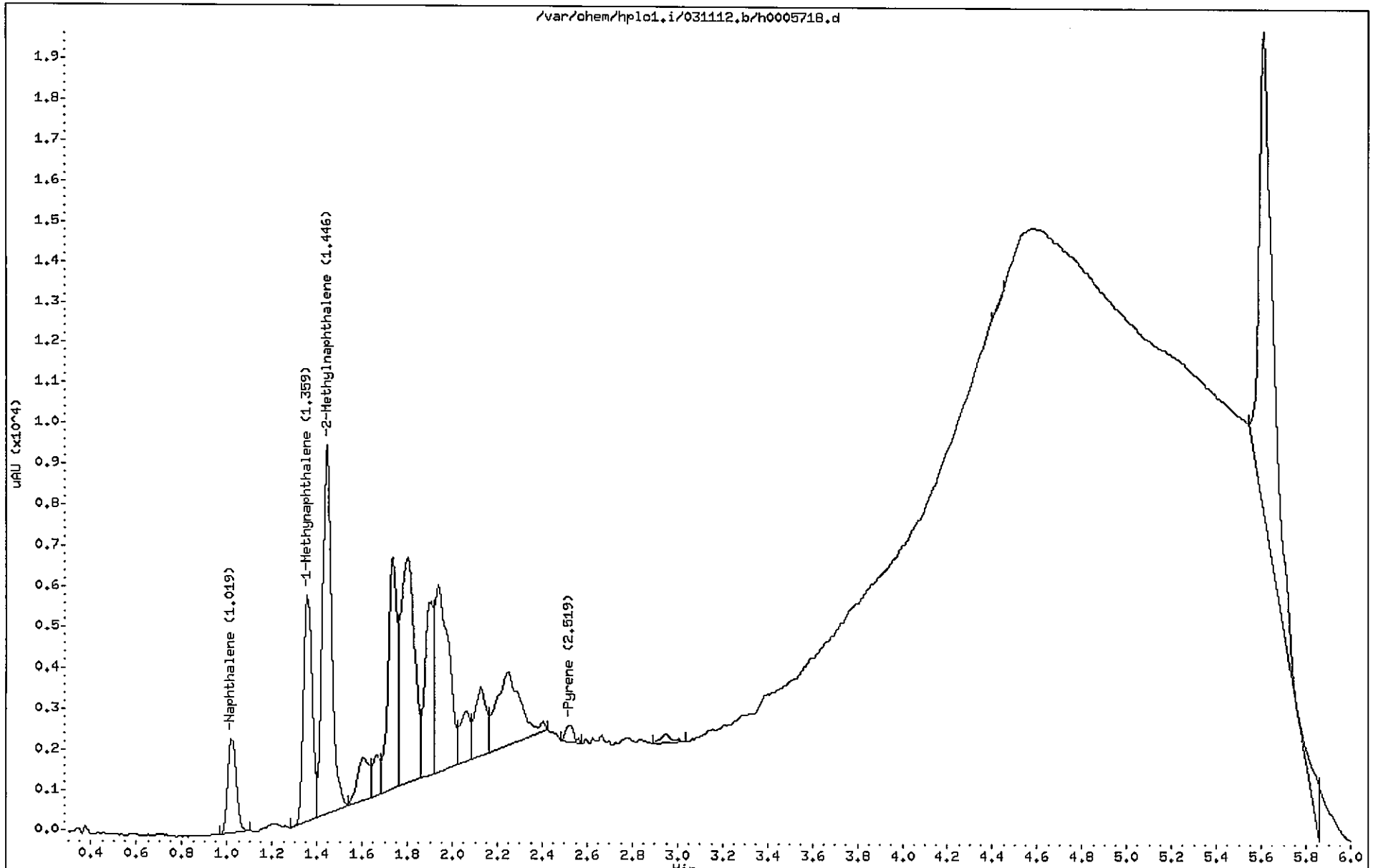
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.019	1.031	-0.012	5906	2.41689	1610
3 1-Methynaphthalene	1.359	1.368	-0.009	14343	10.5209	7010
4 2-Methylnaphthalene	1.446	1.455	-0.009	25633	13.1344	8760
10 Pyrene	2.519	2.544	-0.025	1074	0.18157	121

Data File: /var/chem/hplc1.i/031112.b/h0005718.d
Date : 12-NOV-2003 16:32
Client ID:
Sample Info: 20311062404-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000464



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005718.d
Lab Smp Id: 20311062404
Inj Date : 12-NOV-2003 16:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062404-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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

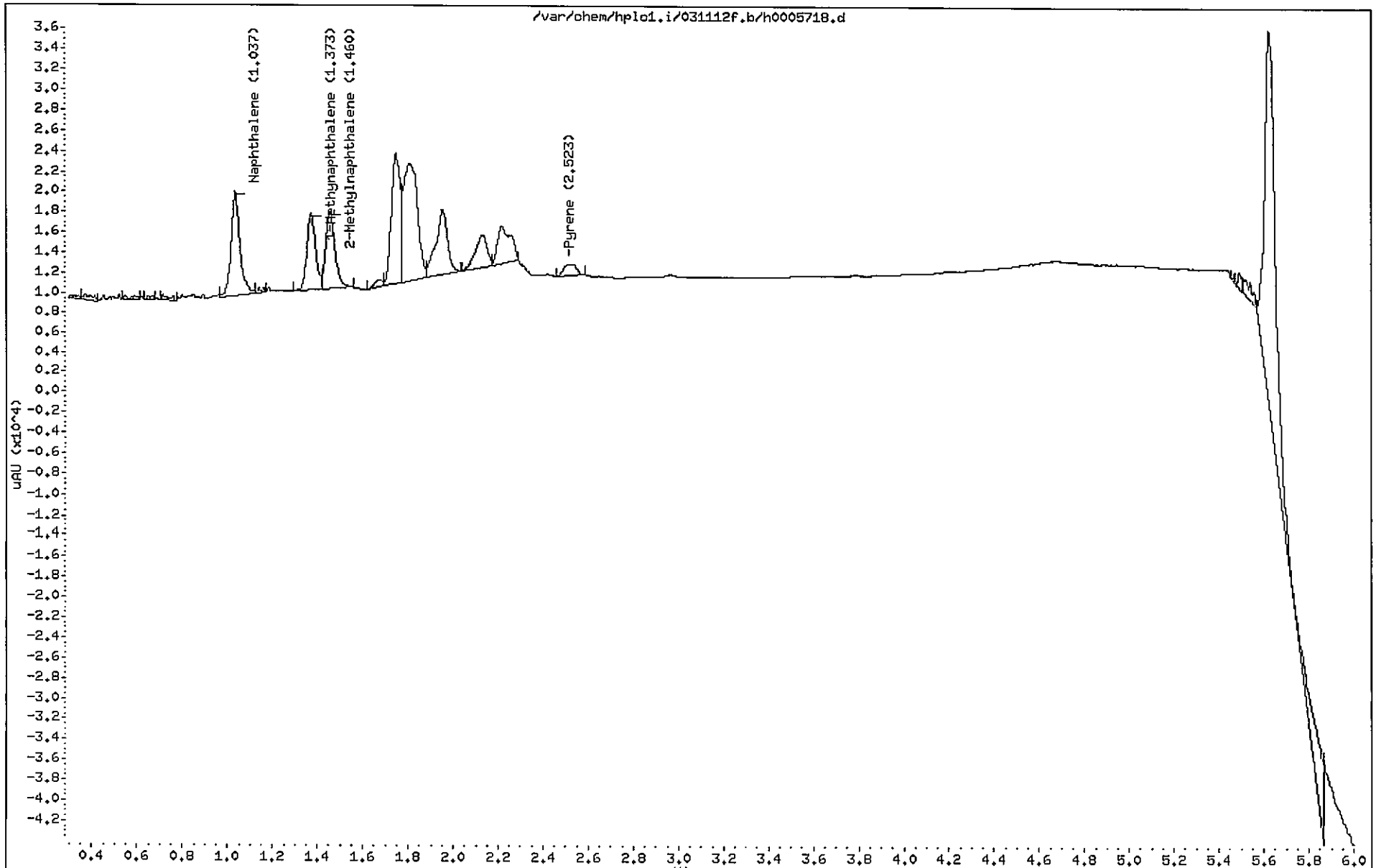
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.037	1.043	-0.006	28052	2.67431	1780
3 1-Methynaphthalene	1.373	1.387	-0.014	20351	9.33571	6220
4 2-Methylnaphthalene	1.460	1.473	-0.013	21761	12.2488	8170
10 Pyrene	2.523	2.560	-0.037	4760	0.14276	95.2

Data File: /var/chem/hplc1.i/031112f.b/h0005718.d
Date : 12-NOV-2003 16:32
Client ID:
Sample Info: 20311062404-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

0004969



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005719.d
Lab Smp Id: 20311062405
Inj Date : 12-NOV-2003 16:39
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062405-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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)
7 Phenanthrene	1.862	1.878	-0.016	2683	0.10359	69.1
10 Pyrene	2.522	2.544	-0.022	2671	0.45156	301(MH)
12 Benzo(a)Anthracene	3.168	3.204	-0.036	3964	0.24442	163(M)
14 Benzo(b)Fluoranthene	3.822	3.878	-0.056	8369	0.41463	276(M)
15 Benzo(k)Fluoranthene	4.082	4.032	0.050	1424	0.11532	76.9(M)
16 Benzo(a)Pyrene	4.255	4.212	0.043	5519	0.30614	204(M)
17 Dibenzo(a,h)Anthracene	4.568	4.512	0.056	4847	1.20470	803(M)
18 Benzo(g,h,i)Perylene	4.715	4.658	0.057	5393	0.82592	551(M)
19 Indeno(1,2,3-c,d)Pyrene	4.895	4.825	0.070	6360	0.43573	290(M)

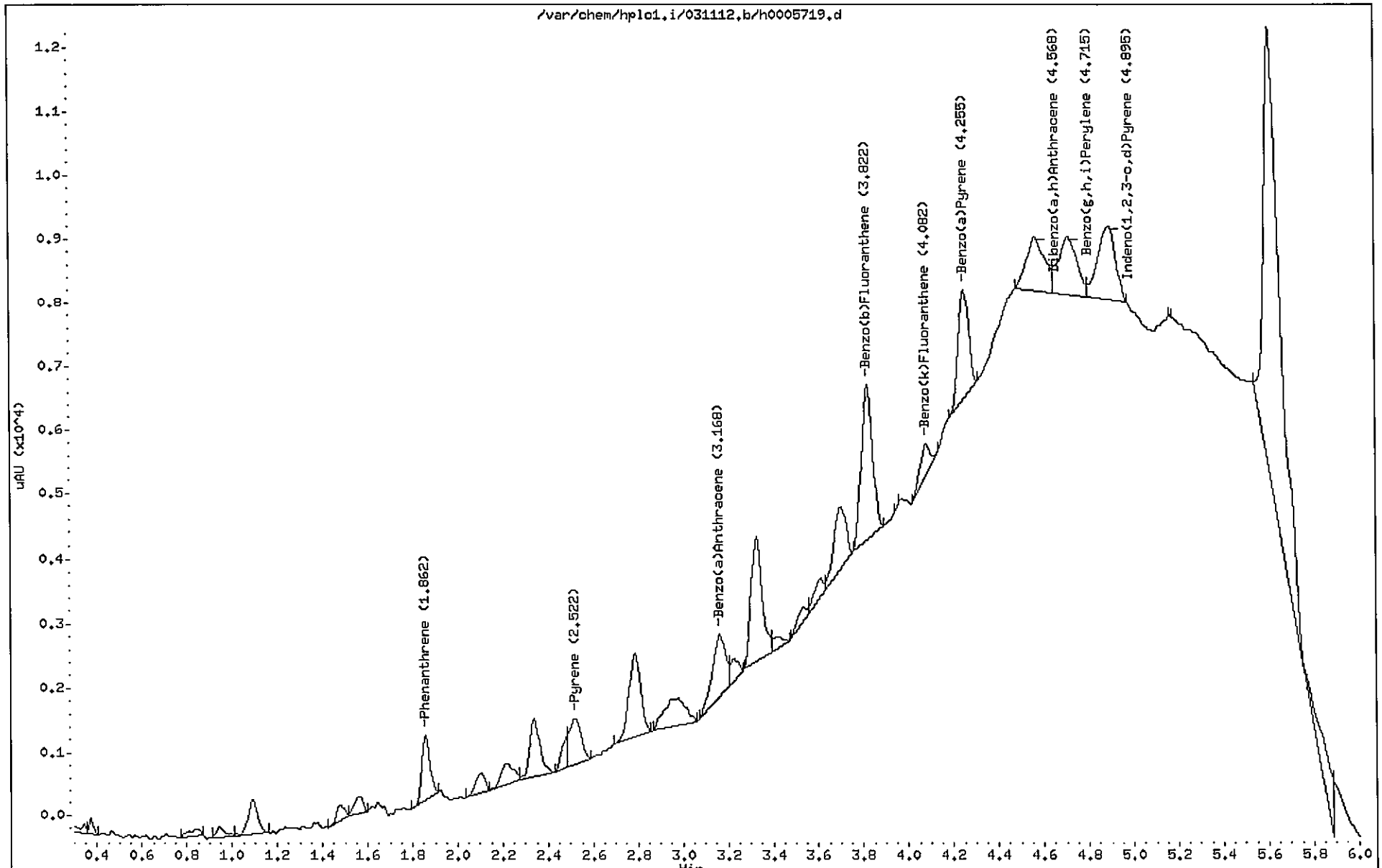
QC Flag Legend

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

000468

Data File: /var/chem/hplc1.i/031112.b/h0005719.d
Date : 12-NOV-2003 16:39
Client ID:
Sample Info: 20311062405-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005719.d
Lab Smp Id: 20311062405
Inj Date : 12-NOV-2003 16:39
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062405-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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)
7 Phenanthrene	1.877	1.863	0.014	3037	0.19312	129(M)
10 Pyrene	2.553	2.560	-0.007	29288	0.87842	586(M)
12 Benzo(a)Anthracene	3.180	3.223	-0.043	5496	0.19760	132
14 Benzo(b)Fluoranthene	3.837	3.890	-0.053	8932	0.38516	257
15 Benzo(k)Fluoranthene	4.090	4.043	0.047	9039	0.17767	118(M)
16 Benzo(a)Pyrene	4.267	4.220	0.047	17951	0.40778	272(M)
17 Dibenzo(a,h)Anthracene	4.587	4.527	0.060	2677	0.16139	108(M)
18 Benzo(g,h,i)Perylene	4.740	4.673	0.067	7752	0.54560	364(M)
19 Indeno(1,2,3-c,d)Pyrene	4.860	4.837	0.023	4269	0.93154	621(M)

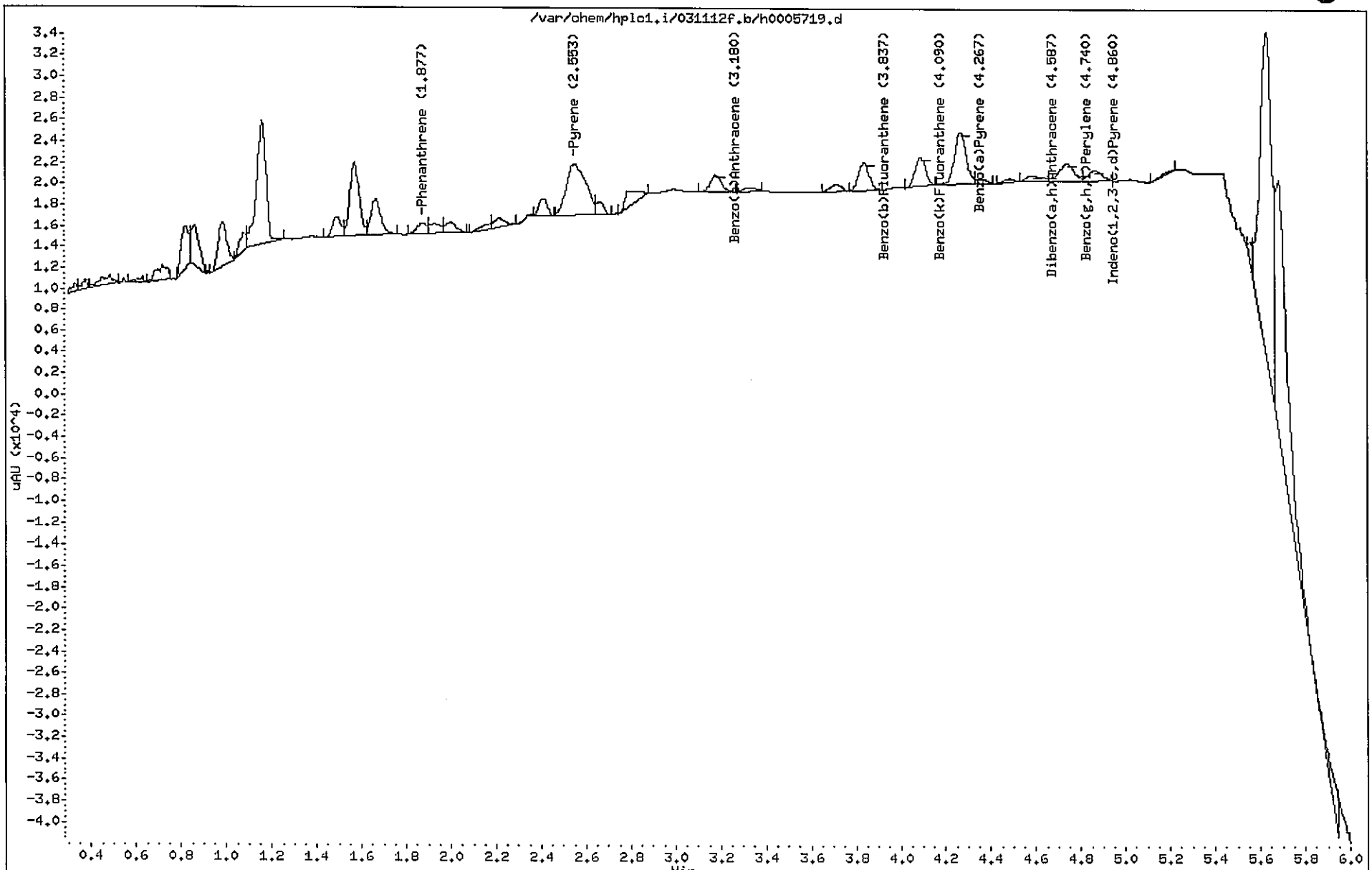
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005719.d
Date : 12-NOV-2003 16:39
Client ID:
Sample Info: 20311062405-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000470



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005702.d
Lab Smp Id: 20311062406
Inj Date : 12-NOV-2003 13:03
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062406-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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	1.031	-0.023	25198	10.3117	344(M)
7 Phenanthrene	1.861	1.878	-0.017	17581	0.67881	22.6(M)
11 p-Terphenyl	2.987	3.018	-0.031	18574	2.65367	88.5(M)

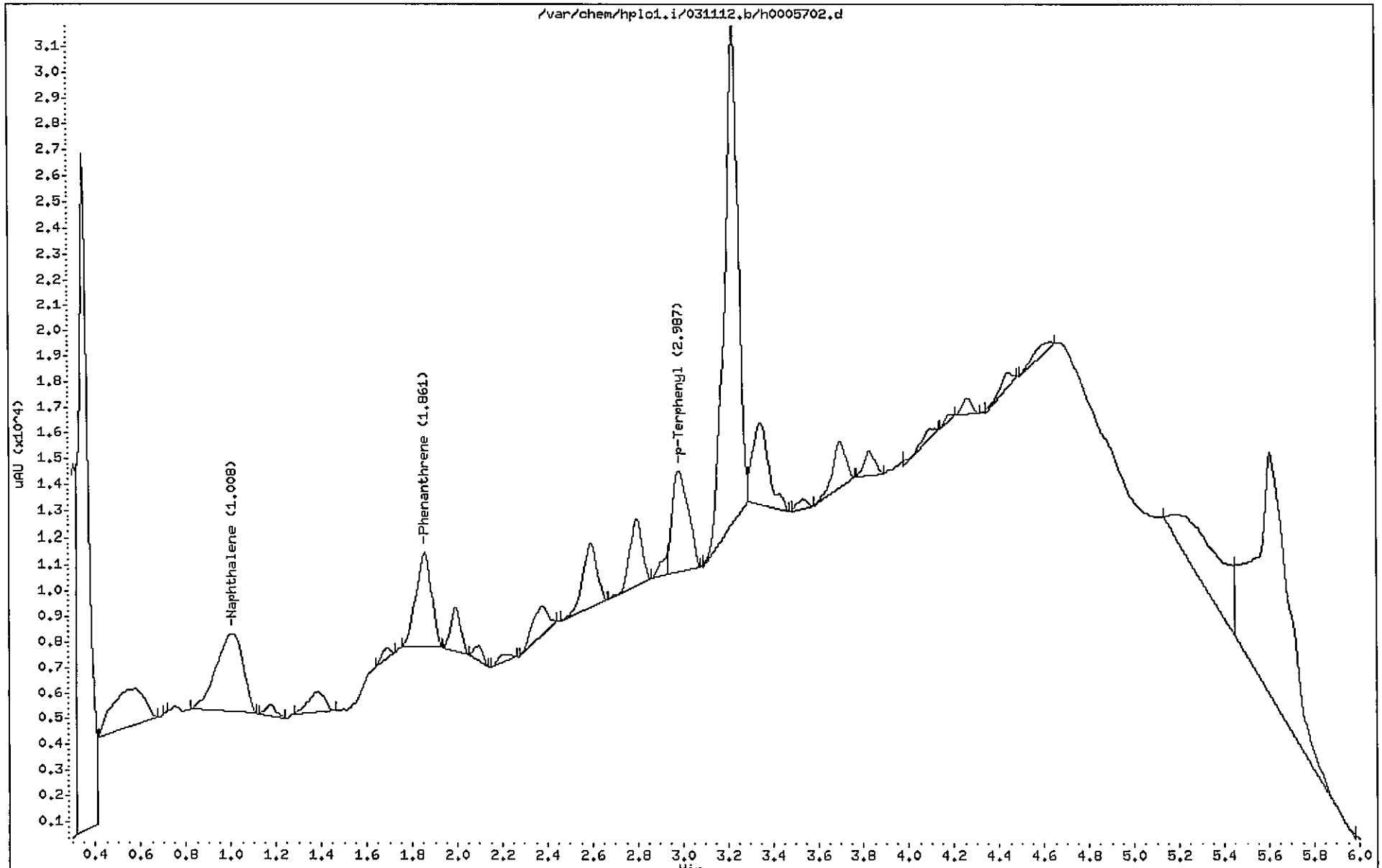
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005702.d
Date : 12-NOV-2003 13:03
Client ID:
Sample Info: 20311062406-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

27 4000



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005702.d
Lab Smp Id: 20311062406
Inj Date : 12-NOV-2003 13:03
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062406-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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	1.040	1.043	-0.003	37221	3.54843	118(M)
7 Phenanthrene	1.867	1.863	0.004	35438	2.25342	75.1(M)
11 p-Terphenyl	2.993	3.033	-0.040	16671	1.90965	63.7(M)

QC Flag Legend

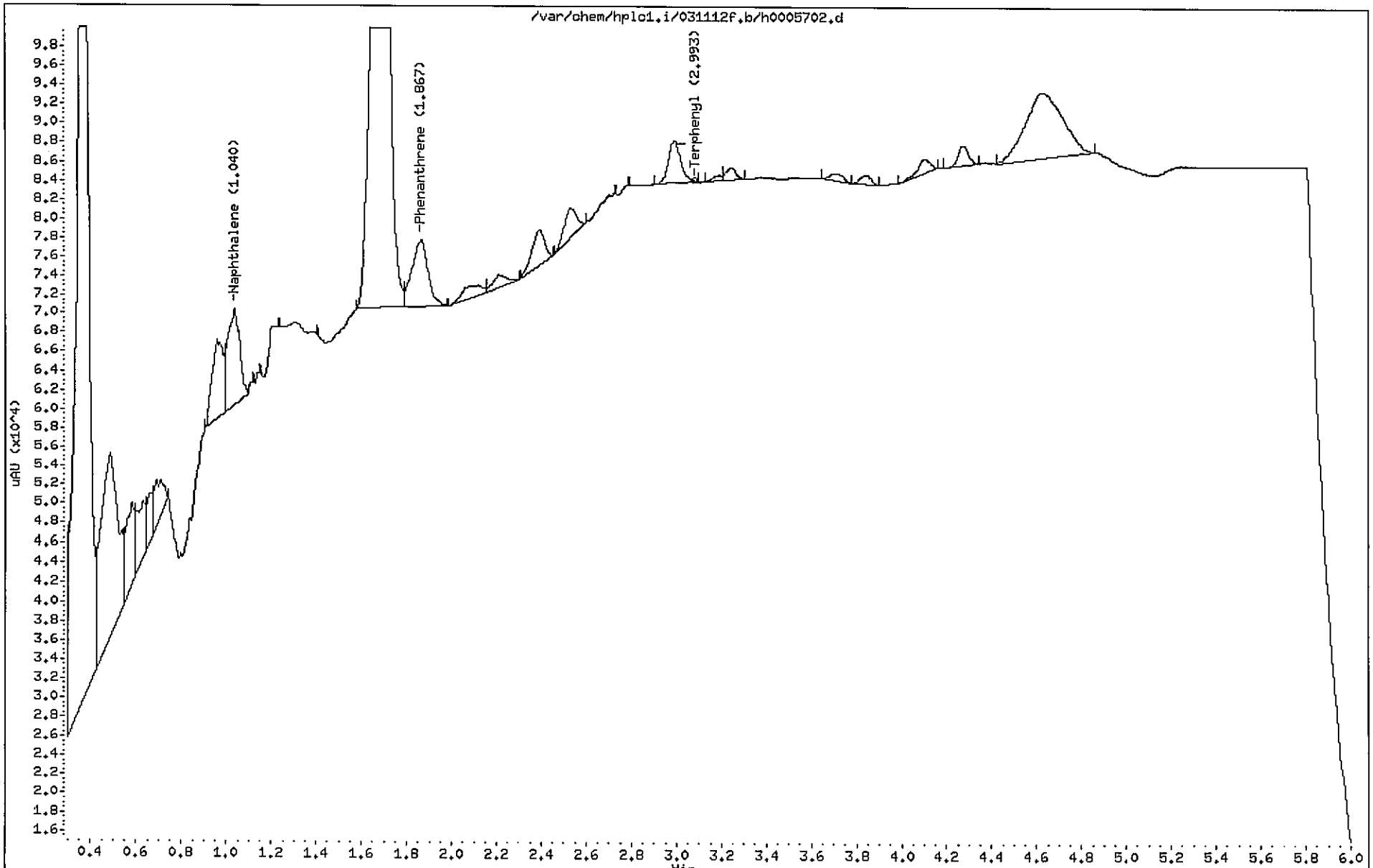
I - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005702.d
Date : 12-NOV-2003 13:03
Client ID:
Sample Info: 20311062406-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000474



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005720.d
Lab Smp Id: 20311062407
Inj Date : 12-NOV-2003 17:02
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062407-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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)
7 Phenanthrene	1.858	1.878	-0.020	3055	0.11795	19.7(M)
11 p-Terphenyl	2.965	3.018	-0.053	9309	1.32998	222(RM)
12 Benzo(a)Anthracene	3.205	3.204	0.001	2416	0.14897	24.8(M)

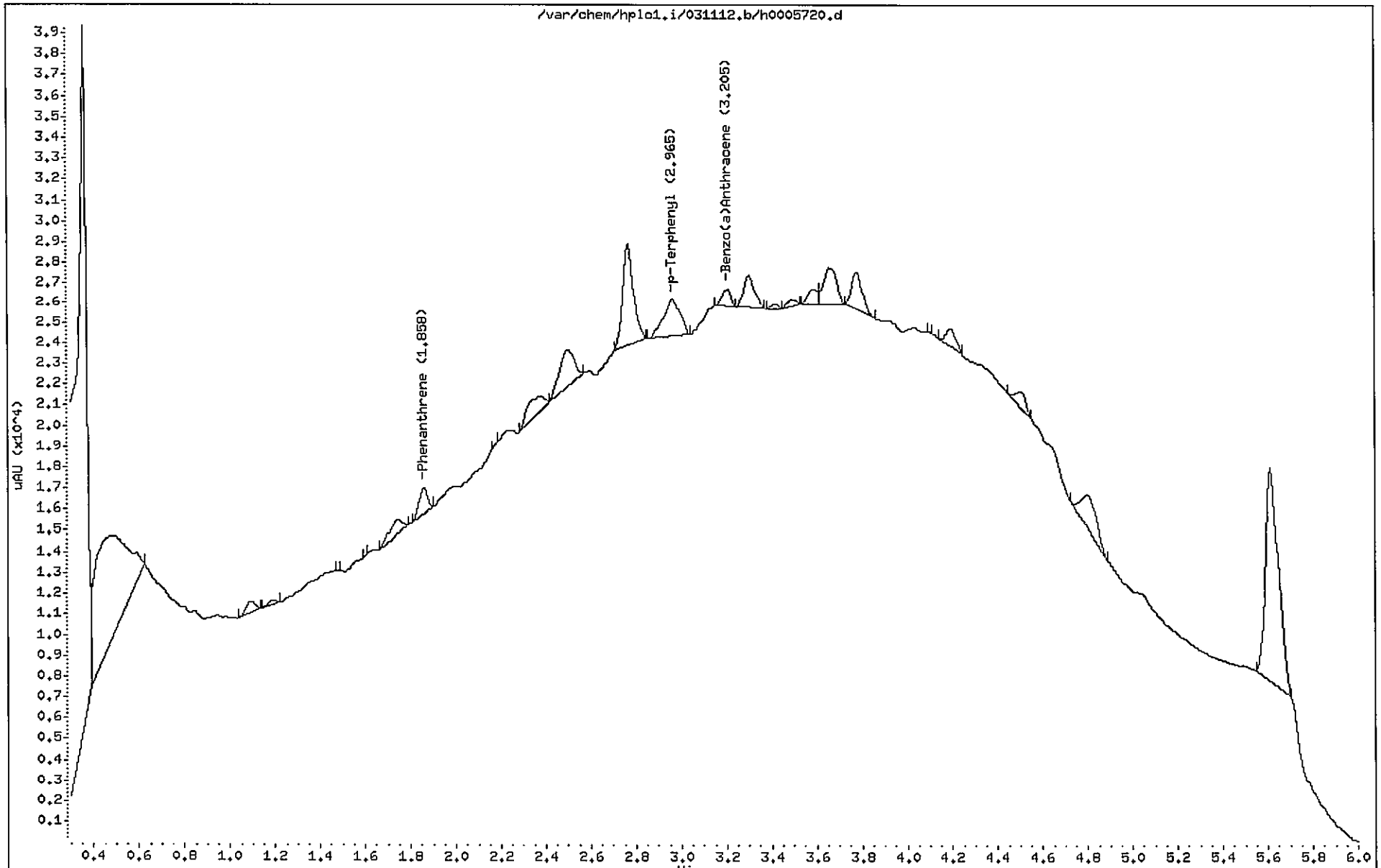
QC Flag Legend

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

Data File: /var/chem/hplc1.i/031112.b/h0005720.d
Date : 12-NOV-2003 17:02
Client ID:
Sample Info: 20311062407-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

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

000475



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005720.d
Lab Smp Id: 20311062407
Inj Date : 12-NOV-2003 17:02
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062407-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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)
7 Phenanthrene	1.880	1.863	0.017	4808	0.30573	51.0(M)
11 p-Terphenyl	2.973	3.033	-0.060	3012	0.34502	57.5(M)
12 Benzo(a)Anthracene	3.157	3.223	-0.066	2618	0.09412	15.7(M)

QC Flag Legend

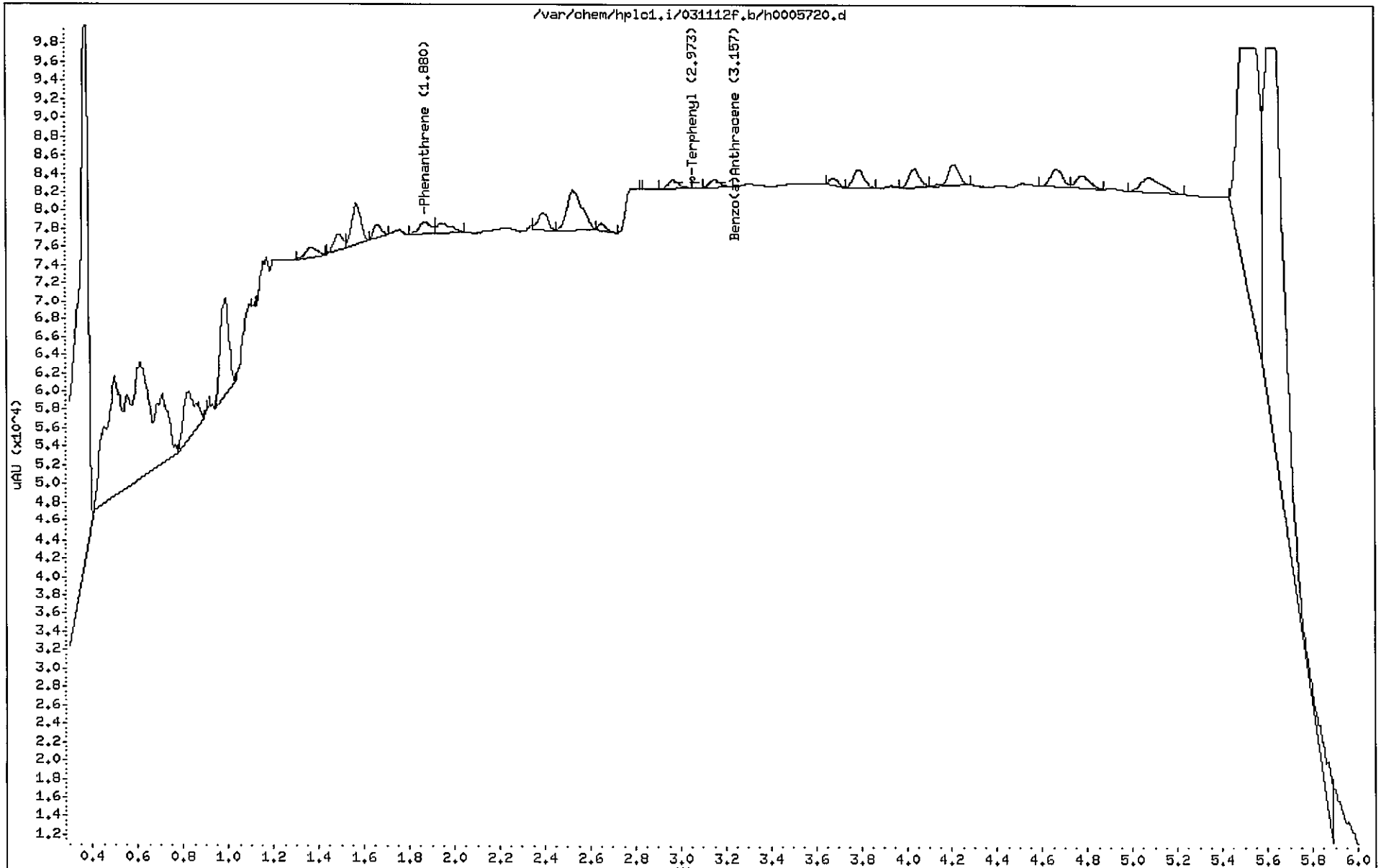
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005720.d
Date : 12-NOV-2003 17:02
Client ID:
Sample Info: 20311062407-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000478



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005705.d
Lab Smp Id: 20311062408
Inj Date : 12-NOV-2003 14:12
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062408-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

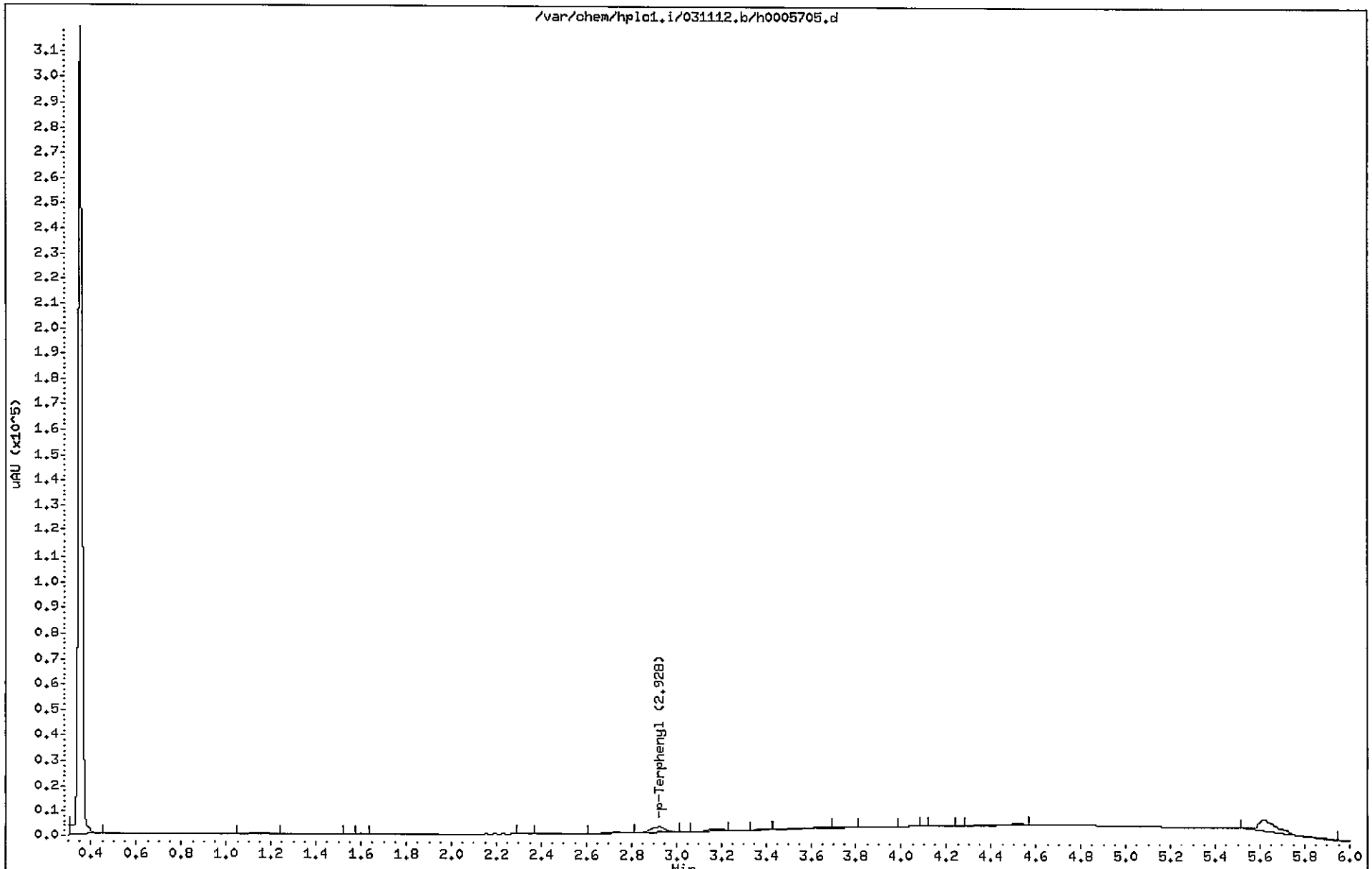
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.928	3.018	-0.090	10596	1.51365	50.5

Data File: /var/chem/hplc1.i/031112.b/h0005705.d
Date : 12-NOV-2003 14:12
Client ID:
Sample Info: 20311062408-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000450



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005705.d
Lab Smp Id: 20311062408
Inj Date : 12-NOV-2003 14:12
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062408-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

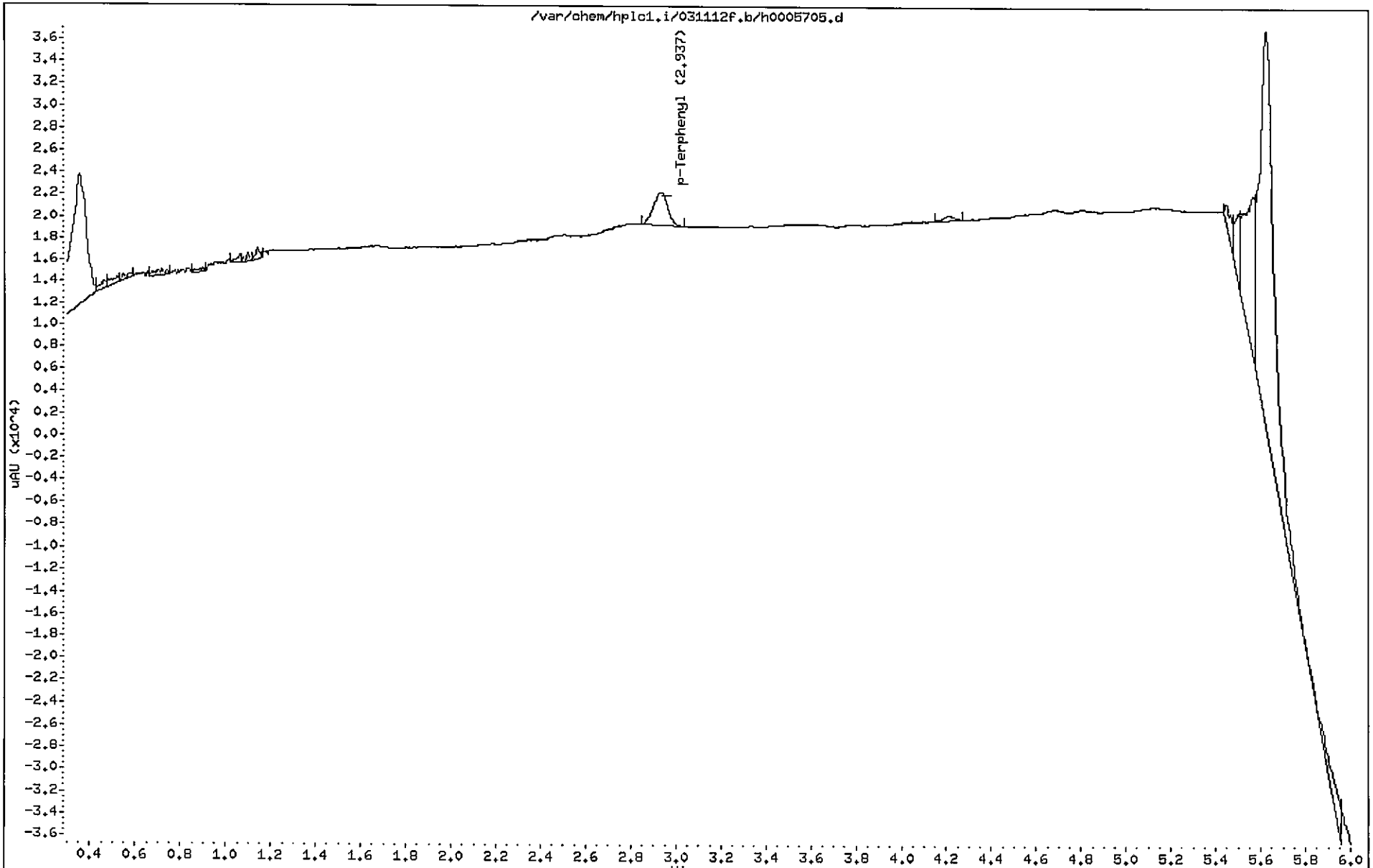
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.937	3.033	-0.096	13737	1.57357	52.5

Data File: /var/chem/hplc1.i/031112f.b/h0005705.d
Date : 12-NOV-2003 14:12
Client ID:
Sample Info: 20311062408-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000432



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005706.d
Lab Smp Id: 20311062409
Inj Date : 12-NOV-2003 14:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062409-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
9 Fluoranthene	2.344	2.368	-0.024	1119	0.15316	5.11
11 p-Terphenyl	2.944	3.018	-0.074	23097	3.29987	110(RM)
13 Chrysene	3.324	3.377	-0.053	19994	0.76368	25.5(M)
14 Benzo(b)Fluoranthene	3.898	3.878	0.020	7337	0.36350	12.1(M)
15 Benzo(k)Fluoranthene	4.171	4.032	0.139	8280	0.67053	22.4(M)
16 Benzo(a)Pyrene	4.271	4.212	0.059	2431	0.13485	4.49(M)

QC Flag Legend

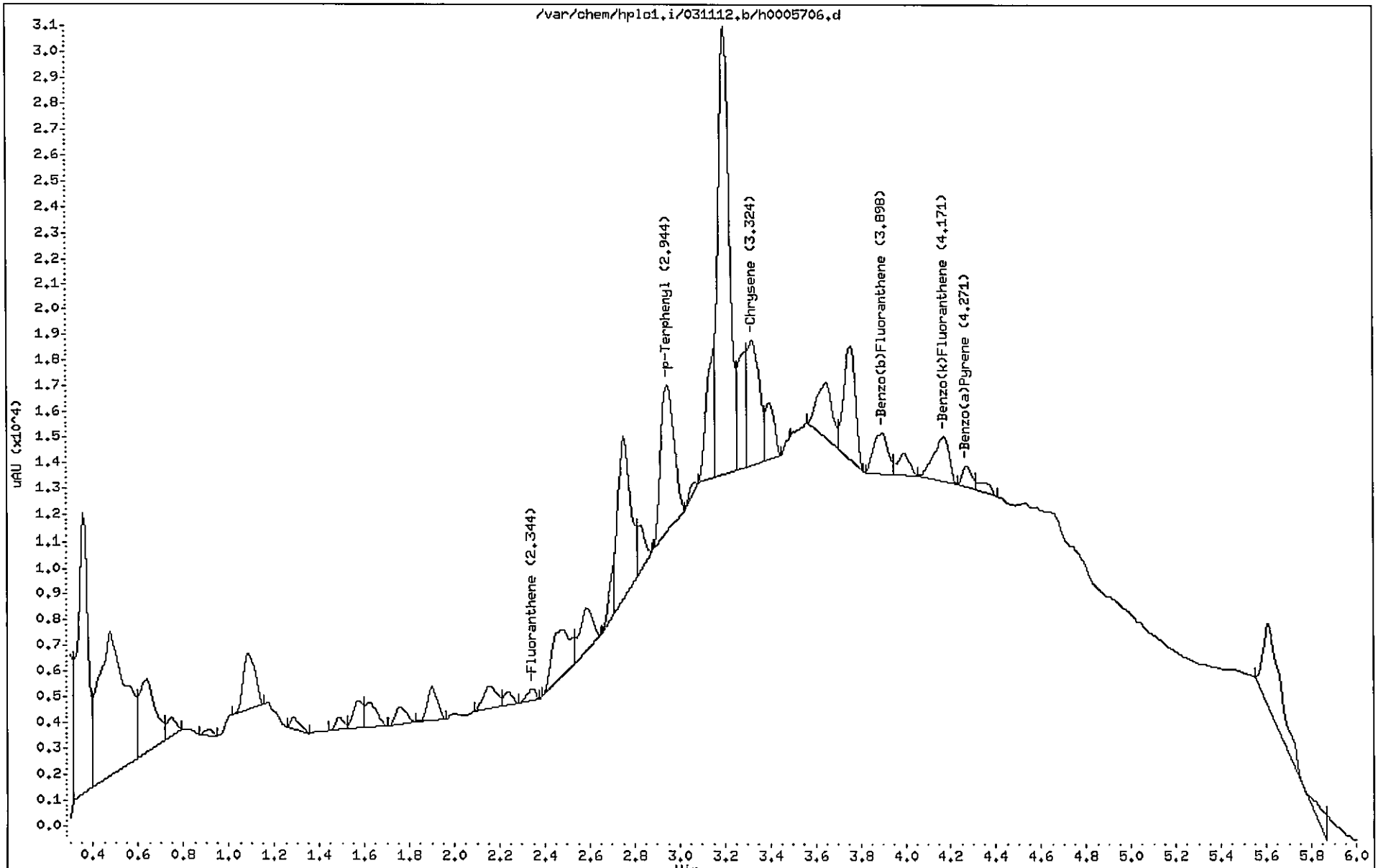
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005706.d
Date : 12-NOV-2003 14:36
Client ID:
Sample Info: 20311062409-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000484



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005706.d
Lab Smp Id: 20311062409
Inj Date : 12-NOV-2003 14:36
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062409-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
9 Fluoranthene	2.397	2.383	0.014	8189	1.43217	47.7
11 p-Terphenyl	2.957	3.033	-0.076	18925	2.16785	72.3(M)
13 Chrysene	3.350	3.390	-0.040	7008	1.87239	62.4(M)
14 Benzo(b)Fluoranthene	3.913	3.890	0.023	7694	0.33177	11.1(M)
15 Benzo(k)Fluoranthene	4.193	4.043	0.150	14707	0.28908	9.64(M)
16 Benzo(a)Pyrene	4.290	4.220	0.070	13496	0.30658	10.2(M)

QC Flag Legend

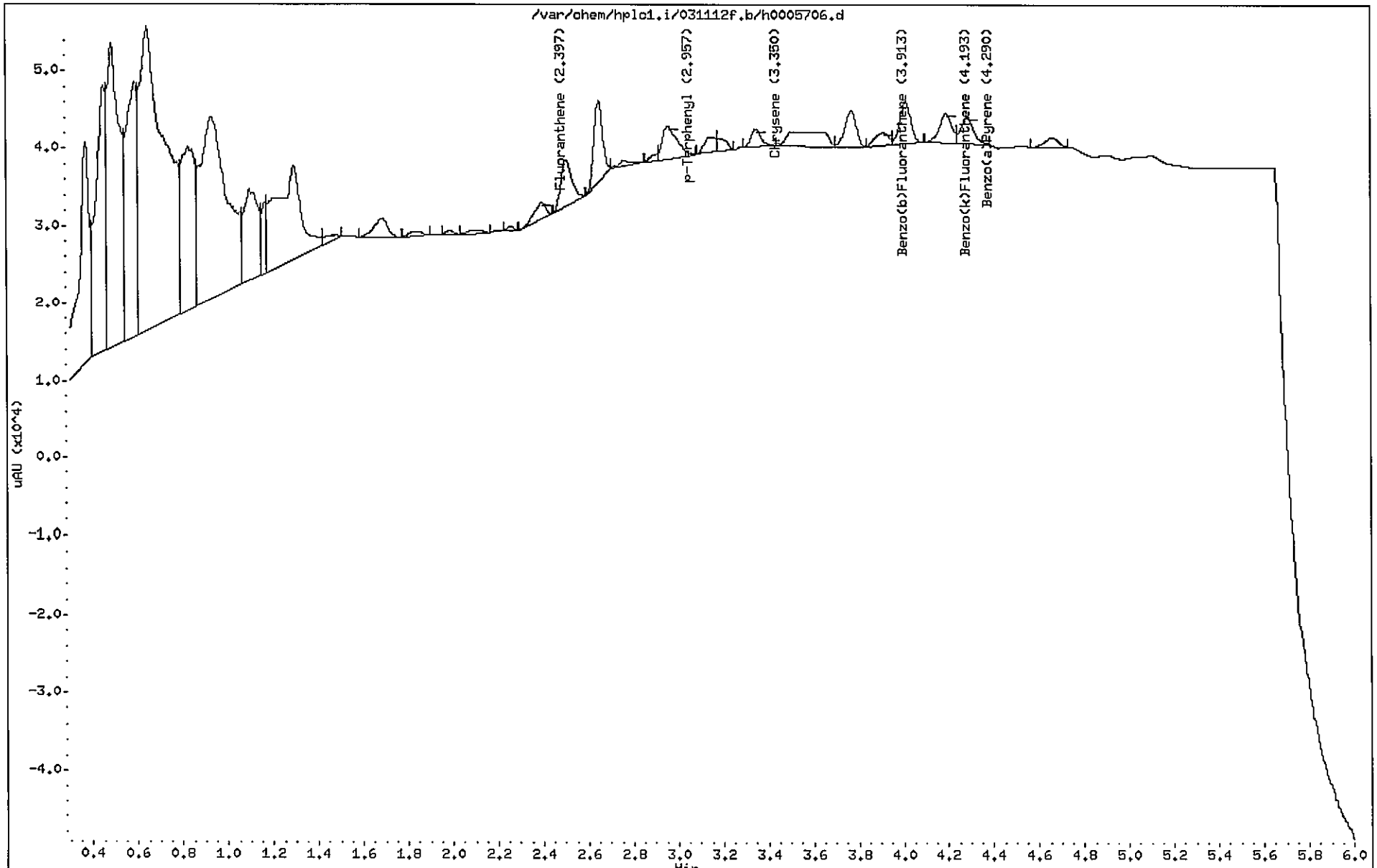
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005706.d
Date : 12-NOV-2003 14:36
Client ID:
Sample Info: 20311062409-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000456



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005707.d
Lab Smp Id: 20311062410
Inj Date : 12-NOV-2003 14:43
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062410-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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	2.970	3.018	-0.048	10740	1.53443	51.1

Data File: /var/chem/hplc1.i/031112.b/h0005707.d

Date : 12-NOV-2003 14:43

Client ID:

Sample Info: 20311062410-DL1

Volume Injected (uL): 10.0

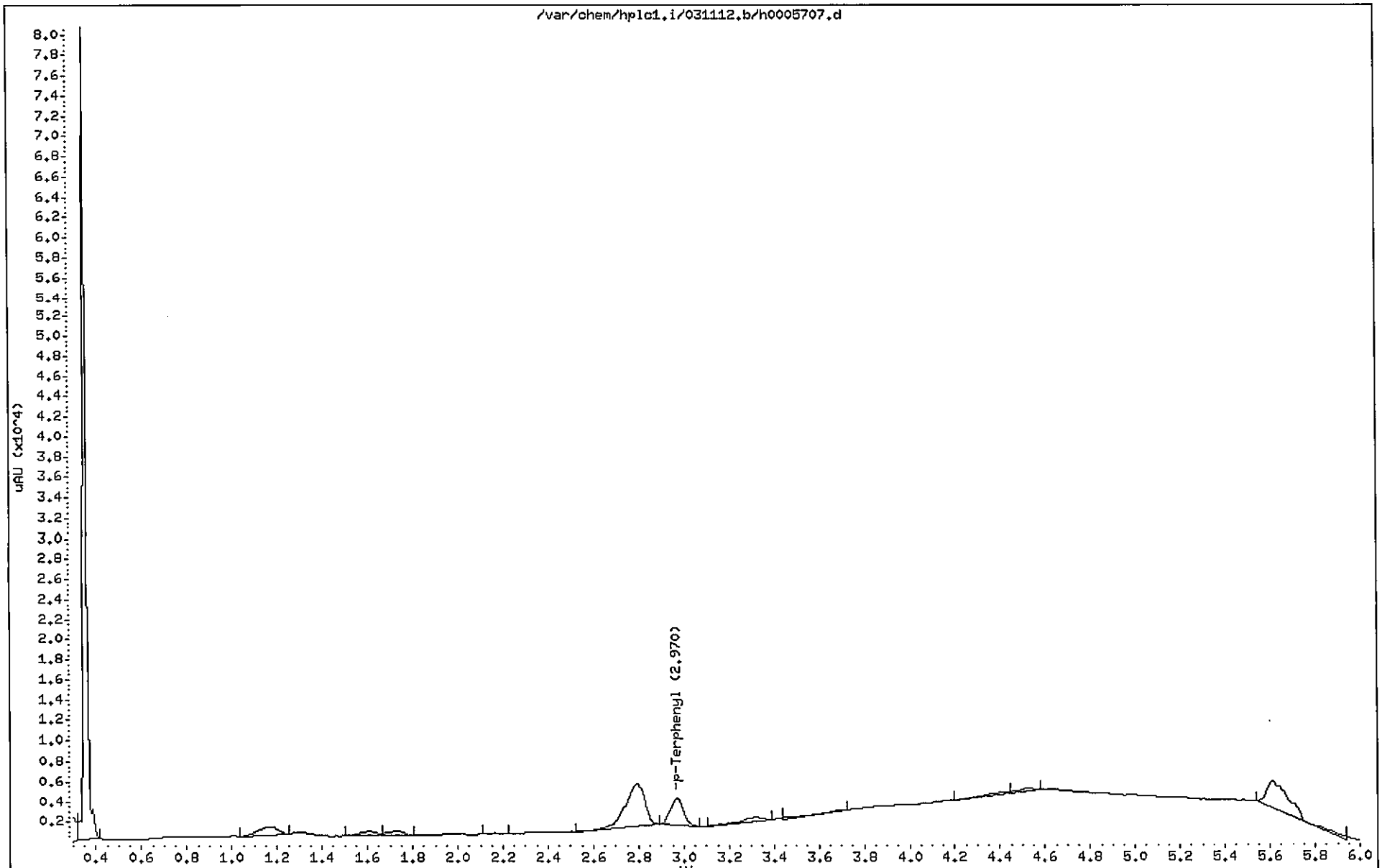
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000188



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005707.d
Lab Smp Id: 20311062410
Inj Date : 12-NOV-2003 14:43
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062410-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

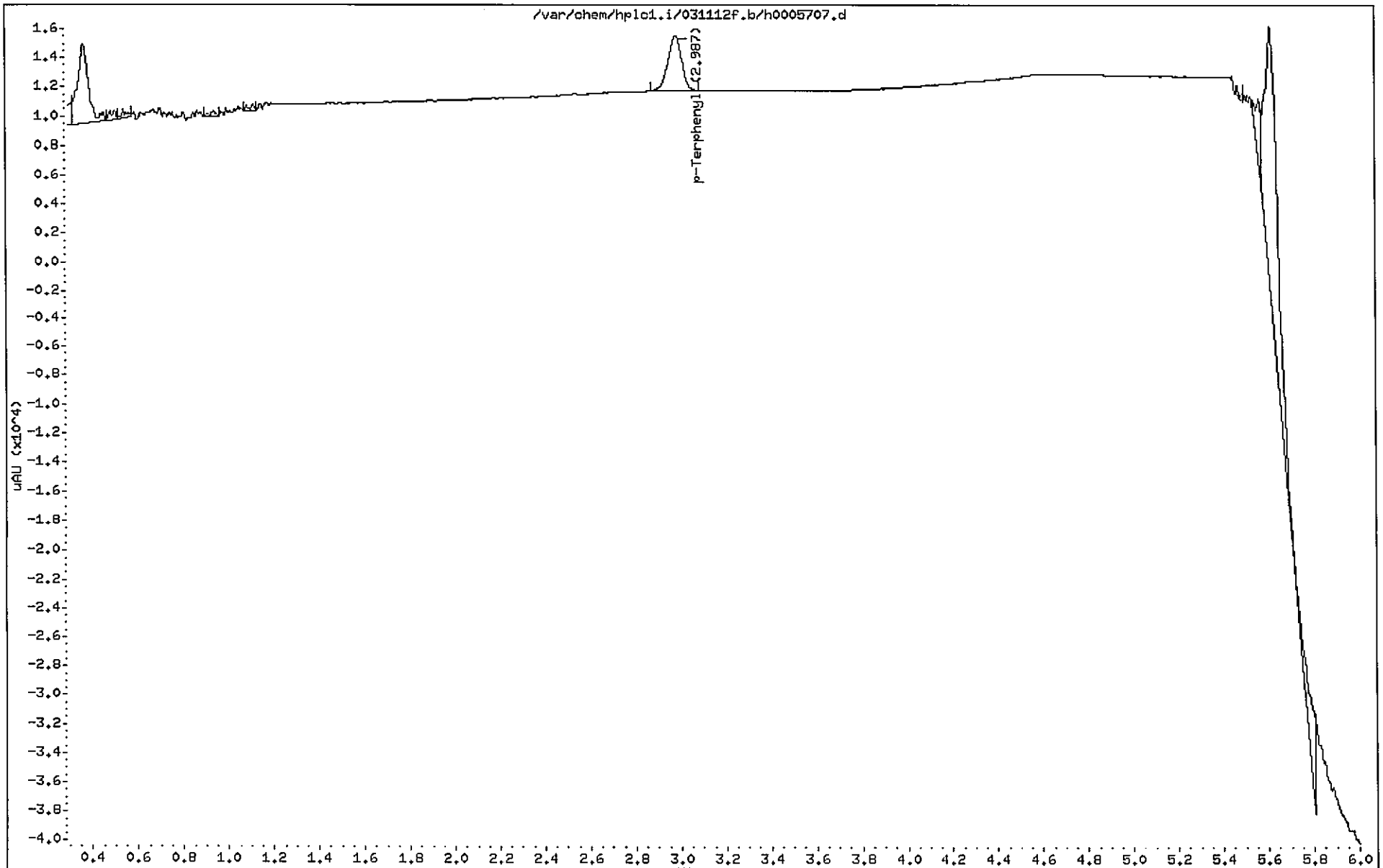
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.987	3.033	-0.046	16011	1.83412	61.1

Data File: /var/chem/hplc1.i/031112f.b/h0005707.d
Date : 12-NOV-2003 14:43
Client ID:
Sample Info: 20311062410-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000490



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005708.d
Lab Smp Id: 20311062411
Inj Date : 12-NOV-2003 14:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062411-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
7 Phenanthrene	1.878	1.878	0.000	23319	0.90035	30.0
11 p-Terphenyl	3.004	3.018	-0.014	12517	1.78831	59.6

Data File: /var/chem/hplc1.i/031112.b/h0005708.d

Date : 12-NOV-2003 14:50

Client ID:

Sample Info: 20311062411-DL1

Volume Injected (uL): 10.0

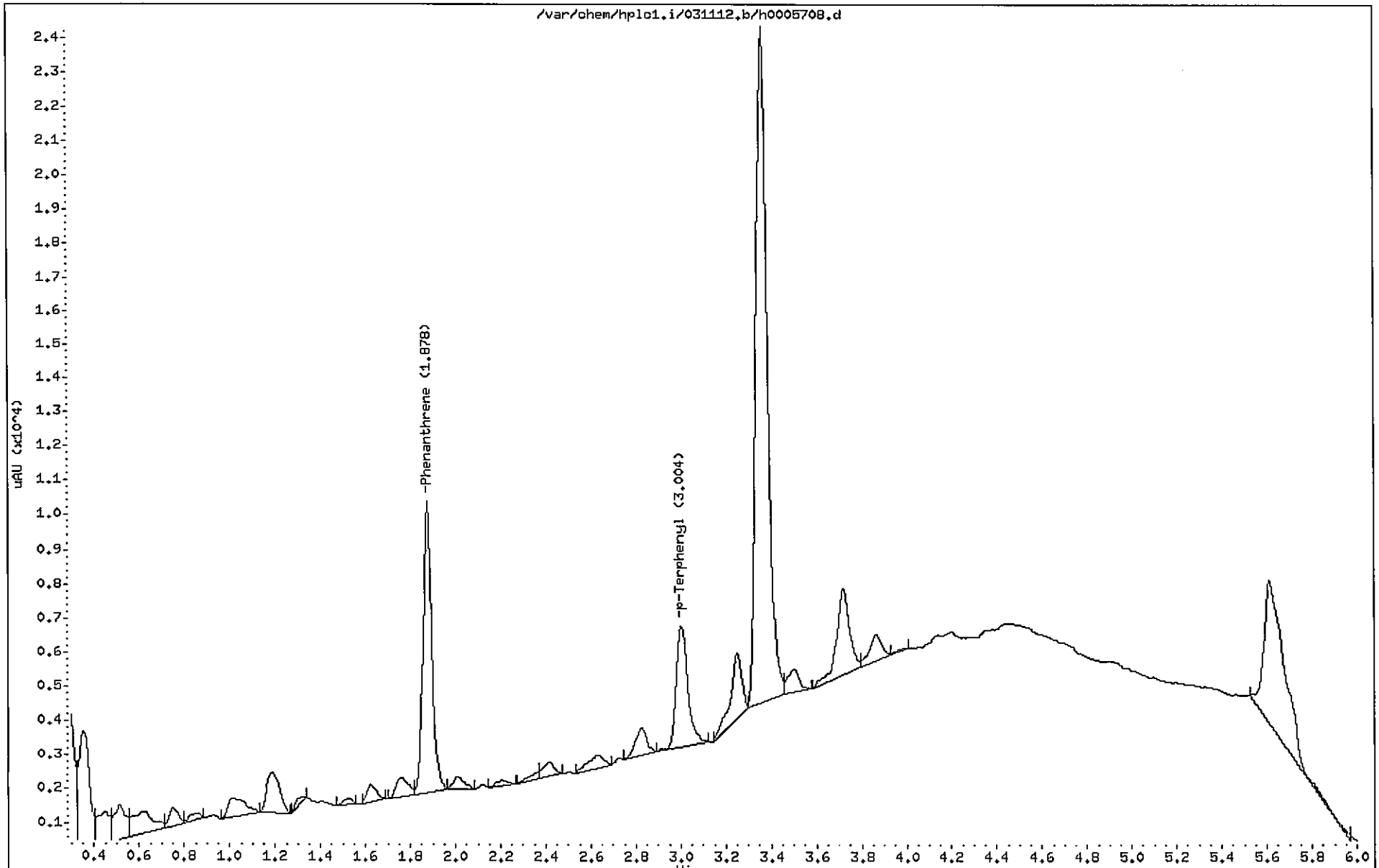
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000492



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005708.d
Lab Smp Id: 20311062411
Inj Date : 12-NOV-2003 14:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062411-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

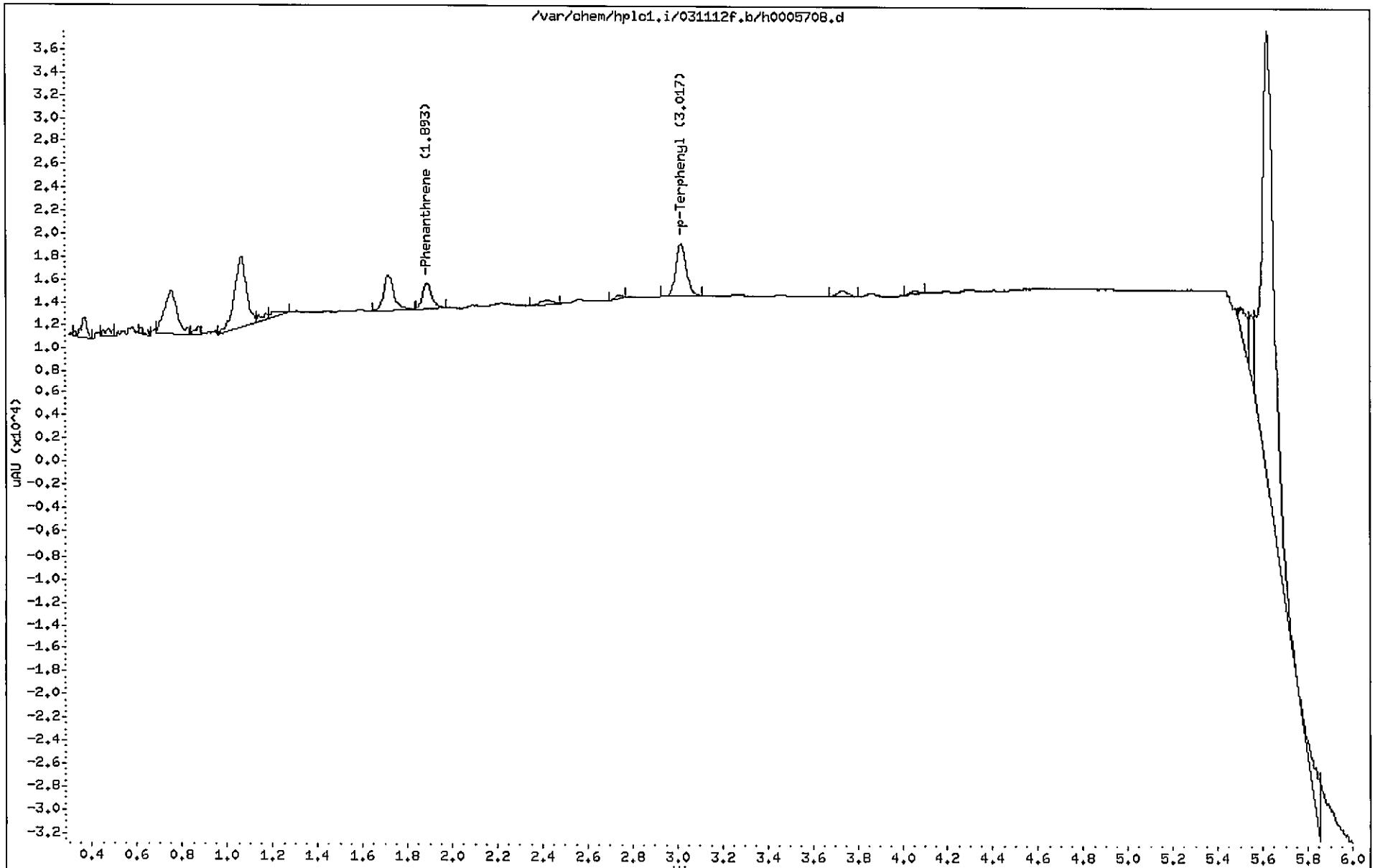
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
7 Phenanthrene	1.893	1.863	0.030	6586	0.41879	14.0
11 p-Terphenyl	3.017	3.033	-0.016	14449	1.65512	55.2

Data File: /var/chem/hplc1.i/031112f.b/h0005708.d
Date : 12-NOV-2003 14:50
Client ID:
Sample Info: 20311062411-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000194



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005709.d
Lab Smp Id: 20311062412
Inj Date : 12-NOV-2003 14:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062412-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
11 p-Terphenyl	3.014	3.018	-0.004	19751	2.82183	94.1(RM)

QC Flag Legend

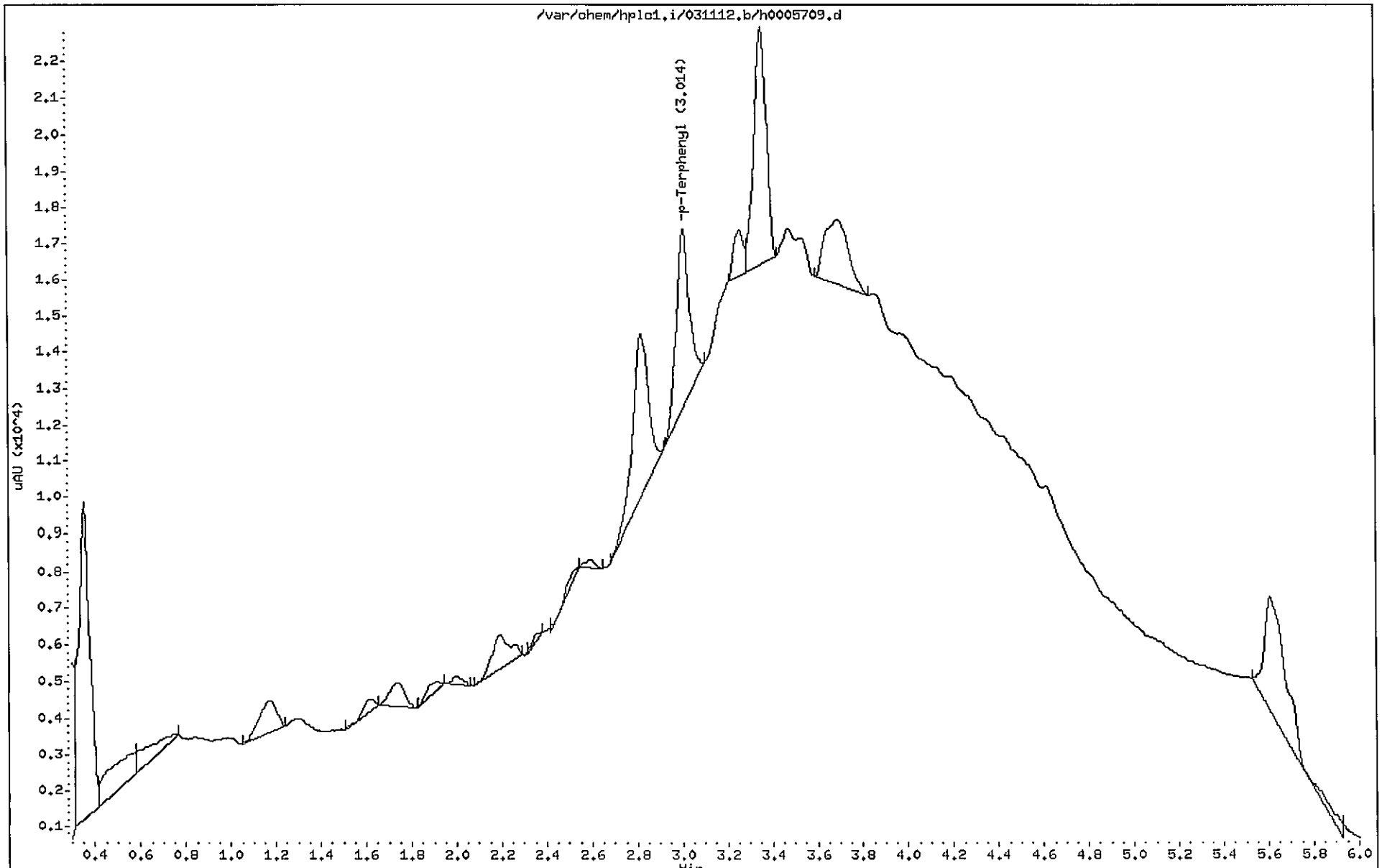
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005709.d
Date : 12-NOV-2003 14:57
Client ID:
Sample Info: 20311062412-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000496



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005709.d
Lab Smp Id: 20311062412
Inj Date : 12-NOV-2003 14:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062412-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

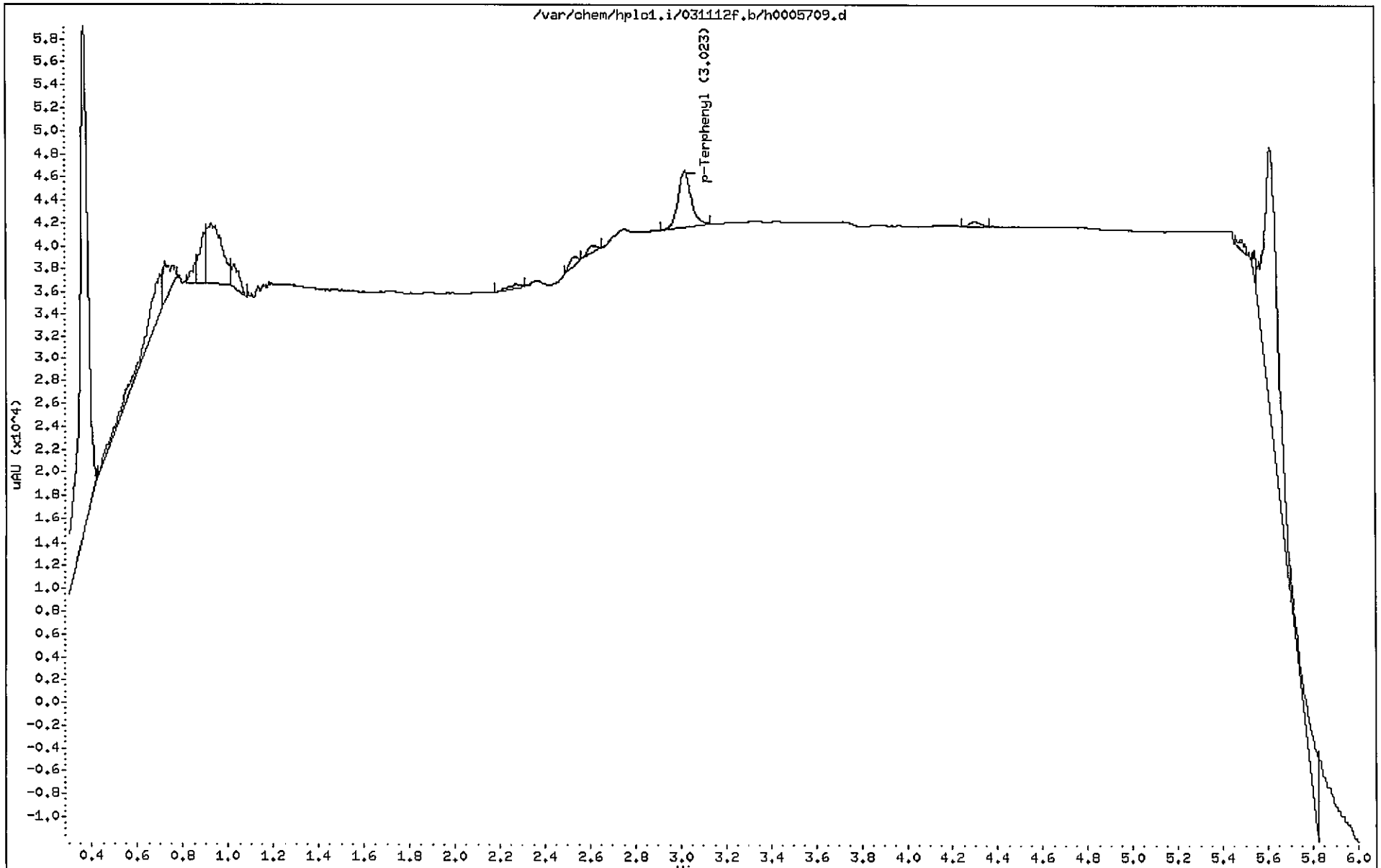
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	3.023	3.033	-0.010	19172	2.19614	73.2

Data File: /var/chem/hplc1.i/031112f.b/h0005709.d
Date : 12-NOV-2003 14:57
Client ID:
Sample Info: 20311062412-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000498



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005710.d
Lab Smp Id: 20311062413
Inj Date : 12-NOV-2003 15:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062413-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
10 Pyrene	2.488	2.544	-0.056	14000	2.36684	78.9(M)
11 p-Terphenyl	2.942	3.018	-0.076	19425	2.77526	92.5(M)
12 Benzo(a)Anthracene	3.142	3.204	-0.062	58319	3.59601	120(M)
13 Chrysene	3.288	3.377	-0.089	70062	2.67605	89.2(M)
15 Benzo(k)Fluoranthene	4.022	4.032	-0.010	14922	1.20841	40.3(M)
16 Benzo(a)Pyrene	4.195	4.212	-0.017	39355	2.18302	72.8(M)
17 Dibenzo(a,h)Anthracene	4.502	4.512	-0.010	7381	1.83452	61.2(M)
18 Benzo(g,h,i)Perylene	4.655	4.658	-0.003	14362	2.19948	73.3(M)
19 Indeno(1,2,3-c,d)Pyrene	4.808	4.825	-0.017	24843	1.70203	56.7(M)

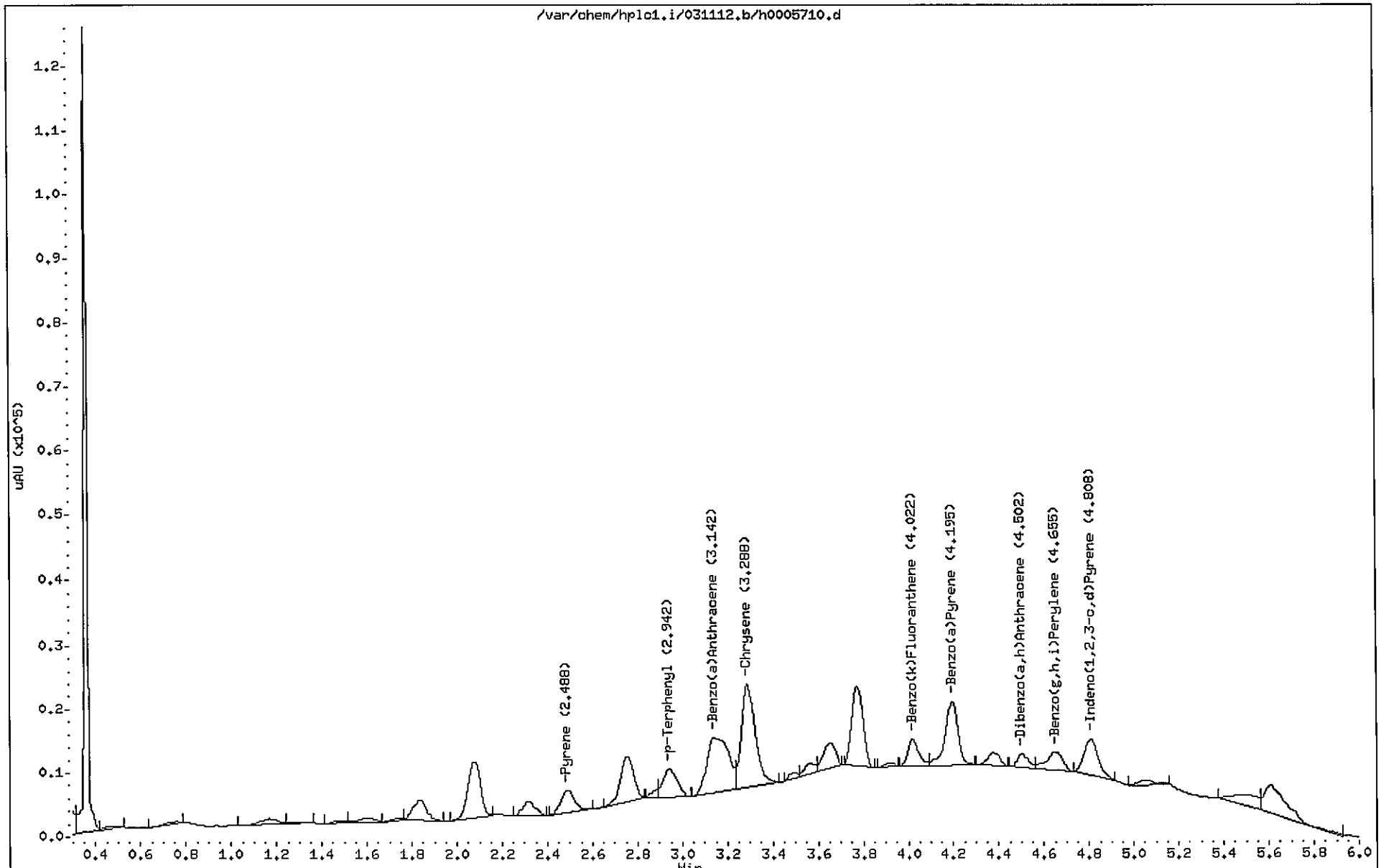
QC Flag Legend

M - Compound response manually integrated.

000500

Data File: /var/chem/hplc1.i/031112.b/h0005710.d
Date : 12-NOV-2003 15:04
Client ID:
Sample Info: 20311062413-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005710.d
Lab Smp Id: 20311062413
Inj Date : 12-NOV-2003 15:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062413-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
10 Pyrene	2.510	2.560	-0.050	98343	2.94955	98.3(M)
11 p-Terphenyl	2.960	3.033	-0.073	18126	2.07632	69.2(M)
12 Benzo(a)Anthracene	3.143	3.223	-0.080	42137	1.51495	50.5(M)
13 Chrysene	3.300	3.390	-0.090	9510	2.53620	84.5(M)
15 Benzo(k)Fluoranthene	4.033	4.043	-0.010	77865	1.53052	51.0(M)
16 Benzo(a)Pyrene	4.210	4.220	-0.010	101458	2.30473	76.8(M)
17 Dibenzo(a,h)Anthracene	4.517	4.527	-0.010	23637	1.42501	47.5(M)
18 Benzo(g,h,i)Perylene	4.670	4.673	-0.003	29992	2.11089	70.4(M)
19 Indeno(1,2,3-c,d)Pyrene	4.780	4.837	-0.057	13467	2.93862	98.0(M)

QC Flag Legend

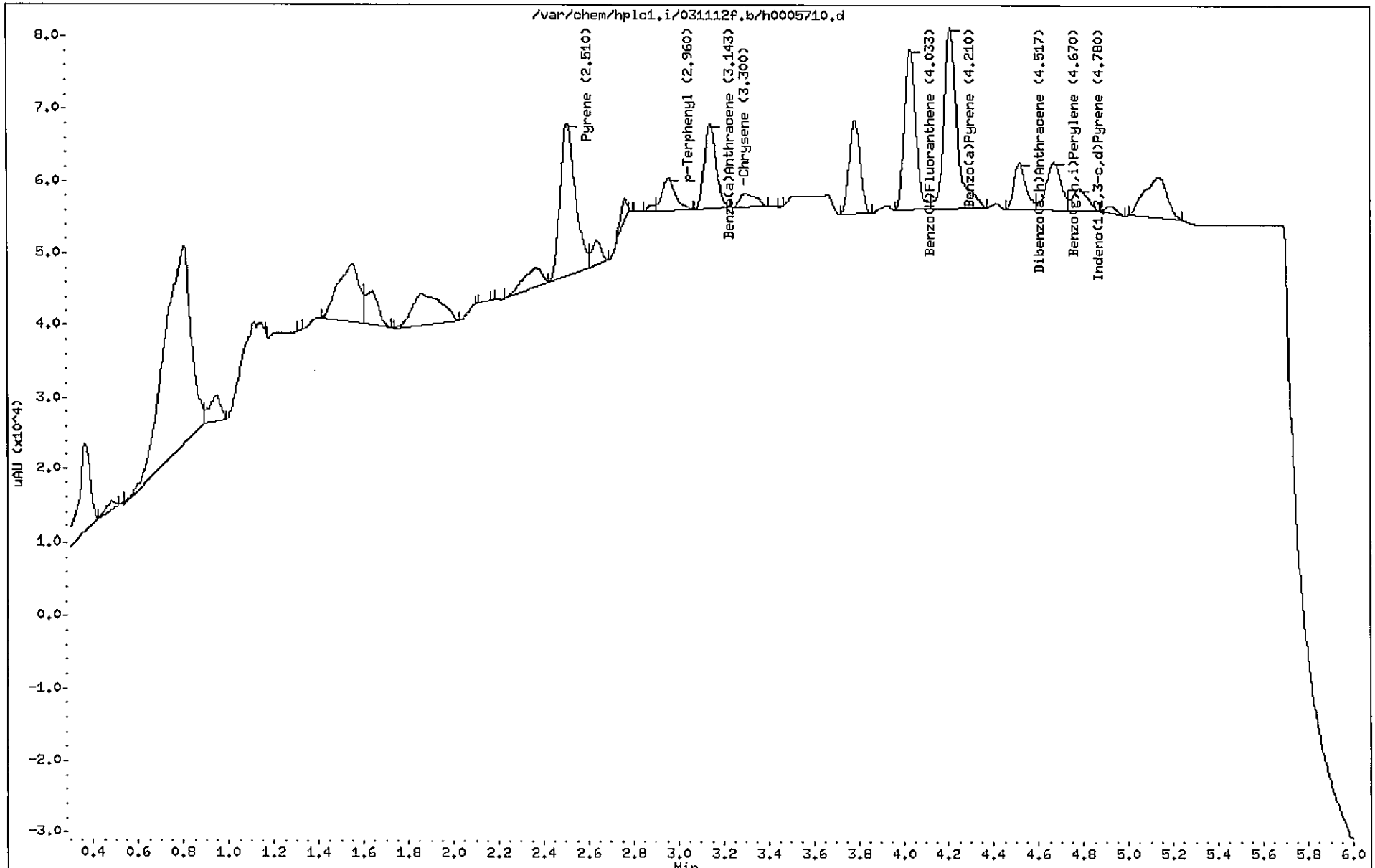
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005710.d
Date : 12-NOV-2003 15:04
Client ID:
Sample Info: 20311062413-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000502



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005711.d
Lab Smp Id: 20311062414
Inj Date : 12-NOV-2003 15:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062414-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
11 p-Terphenyl	2.970	3.018	-0.048	12511	1.78745	59.6
14 Benzo(b)Fluoranthene	3.817	3.878	-0.061	1119	0.05547	1.85(M)
15 Benzo(k)Fluoranthene	4.077	4.032	0.045	821	0.06652	2.22(M)
16 Benzo(a)Pyrene	4.250	4.212	0.038	533	0.02958	0.986(M)

QC Flag Legend

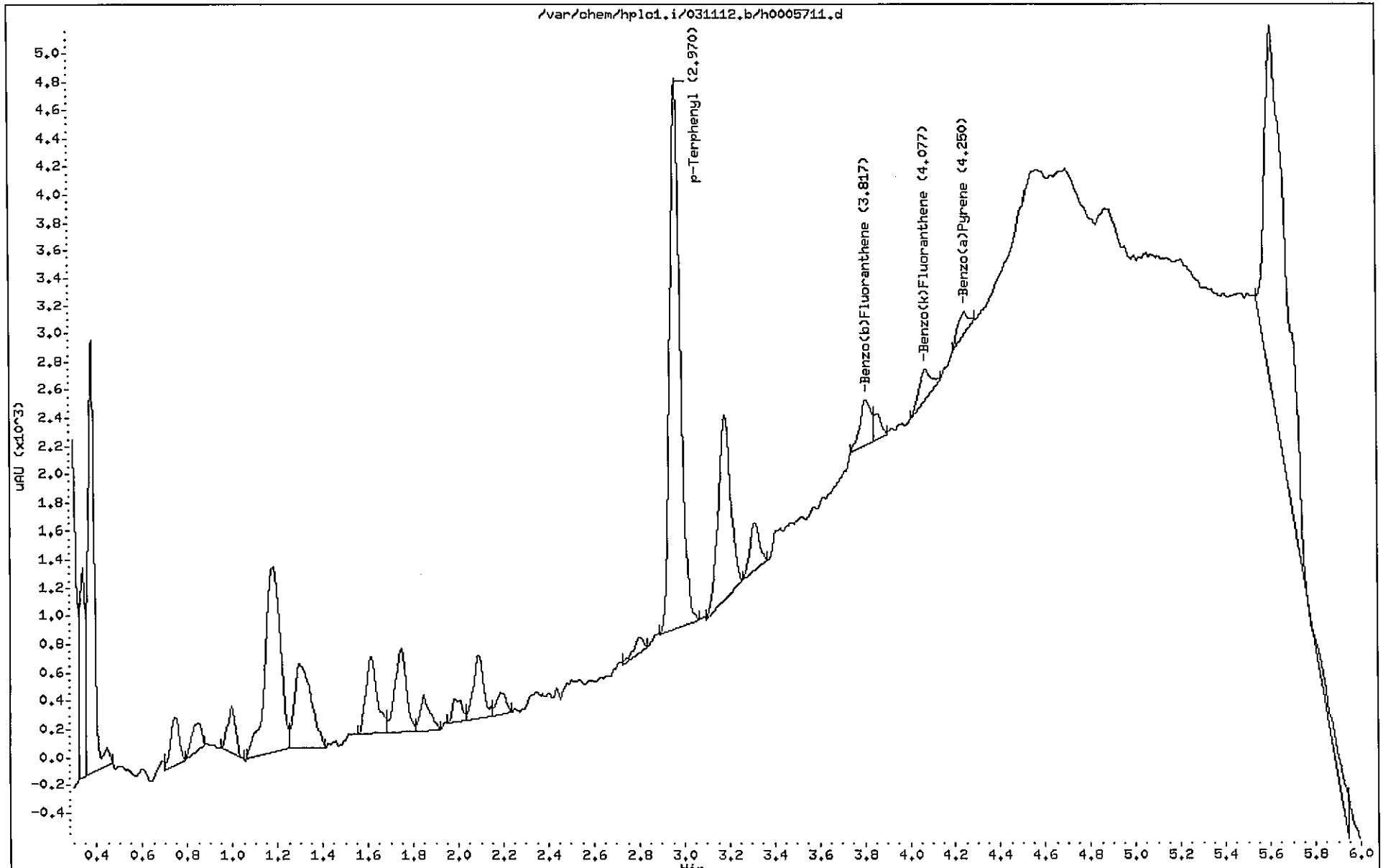
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005711.d
Date : 12-NOV-2003 15:11
Client ID:
Sample Info: 20311062414-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000504



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005711.d
Lab Smp Id: 20311062414
Inj Date : 12-NOV-2003 15:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062414-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

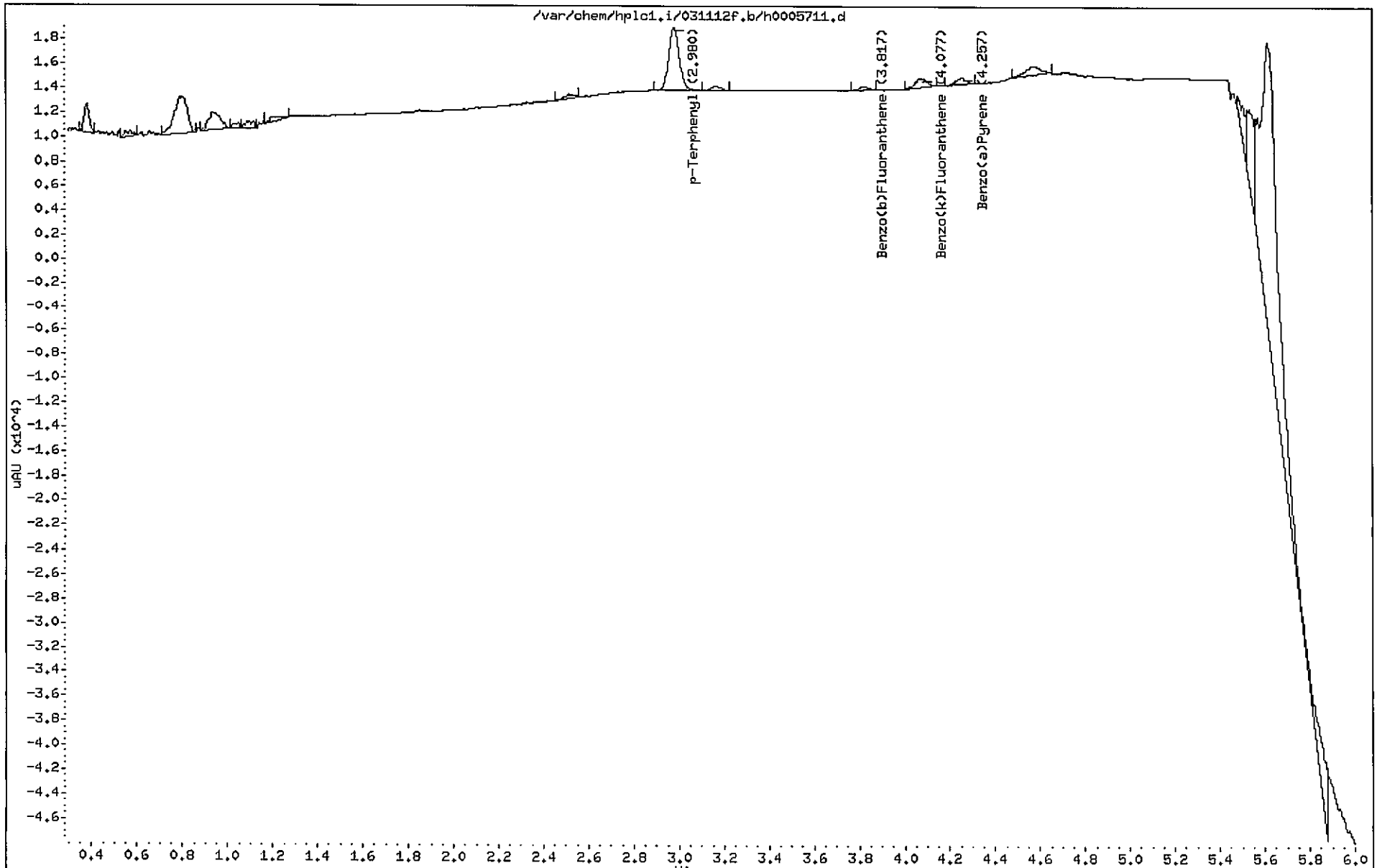
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.980	3.033	-0.053	16833	1.92821	64.3
14 Benzo(b)Fluoranthene	3.817	3.890	-0.073	931	0.04015	1.34
15 Benzo(k)Fluoranthene	4.077	4.043	0.034	2749	0.05403	1.80
16 Benzo(a)Pyrene	4.257	4.220	0.037	1882	0.04275	1.43

Data File: /var/chem/hplc1.i/031112f.b/h0005711.d
Date : 12-NOV-2003 15:11
Client ID:
Sample Info: 20311062414-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000506



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005714.d
Lab Smp Id: 20311062415
Inj Date : 12-NOV-2003 15:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062415-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
11 p-Terphenyl	2.958	3.018	-0.060	13727	1.96118	65.4
14 Benzo(b)Fluoranthene	3.797	3.878	-0.081	6150	0.30469	10.2(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005714.d

Date : 12-NOV-2003 15:32

Client ID:

Sample Info: 20311062415-DL1

Volume Injected (uL): 10.0

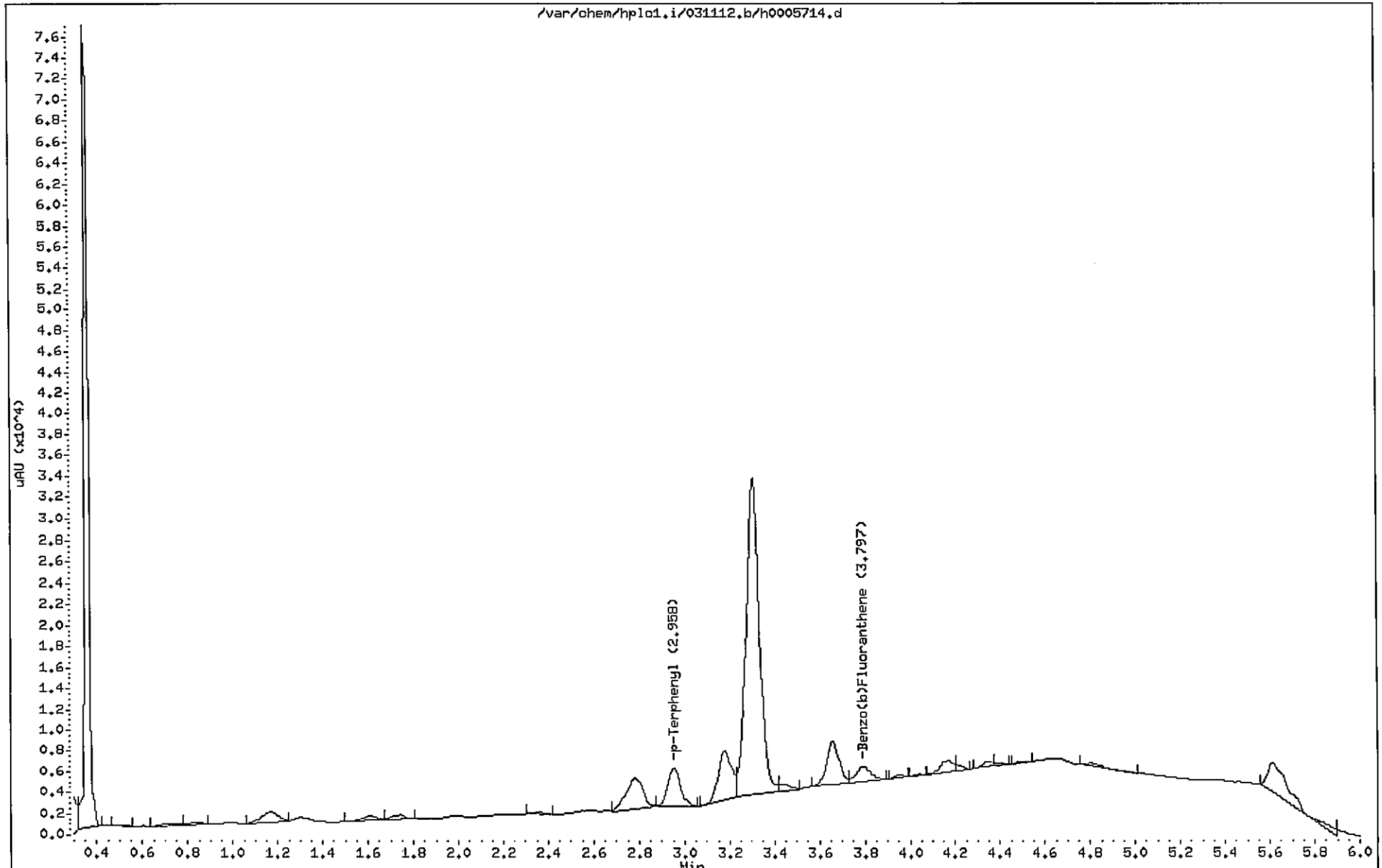
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000508



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005714.d
Lab Smp Id: 20311062415
Inj Date : 12-NOV-2003 15:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062415-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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)
11 p-Terphenyl	2.967	3.033	-0.066	16935	1.93989	64.7(M)
14 Benzo(b)Fluoranthene	3.800	3.890	-0.090	2312	0.09970	3.32

QC Flag Legend

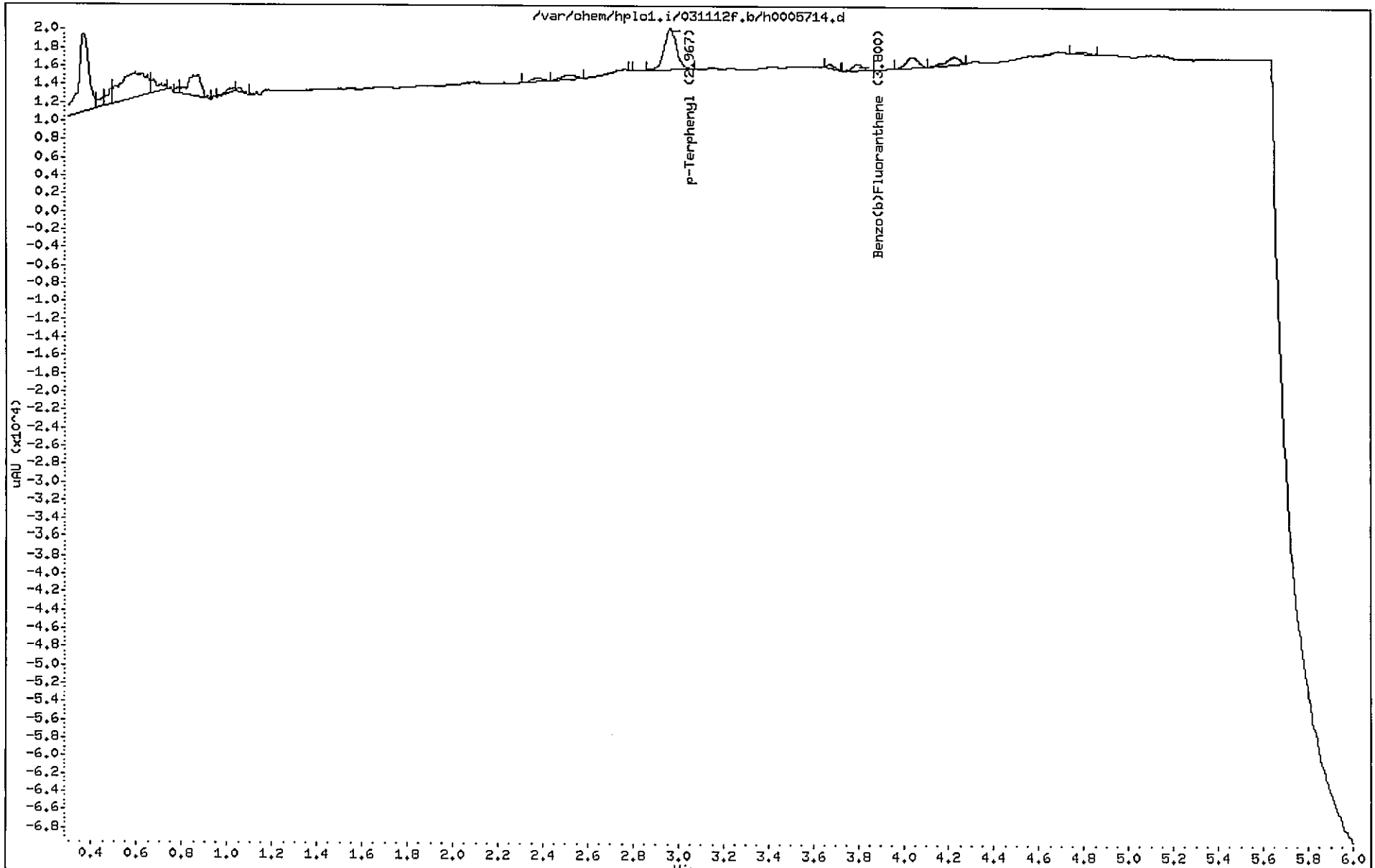
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005714.d
Date : 12-NOV-2003 15:32
Client ID:
Sample Info: 20311062415-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000510



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005723.d
Lab Smp Id: 20311062418
Inj Date : 12-NOV-2003 17:23
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062418-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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	1.037	1.031	0.006	9361	3.83077	2550(M)
3 1-Methynaphthalene	1.377	1.368	0.009	18292	13.4176	8950(M)
4 2-Methylnaphthalene	1.463	1.455	0.008	32557	16.6823	11100(M)
10 Pyrene	2.543	2.544	-0.001	1550	0.26204	175(M)

QC Flag Legend

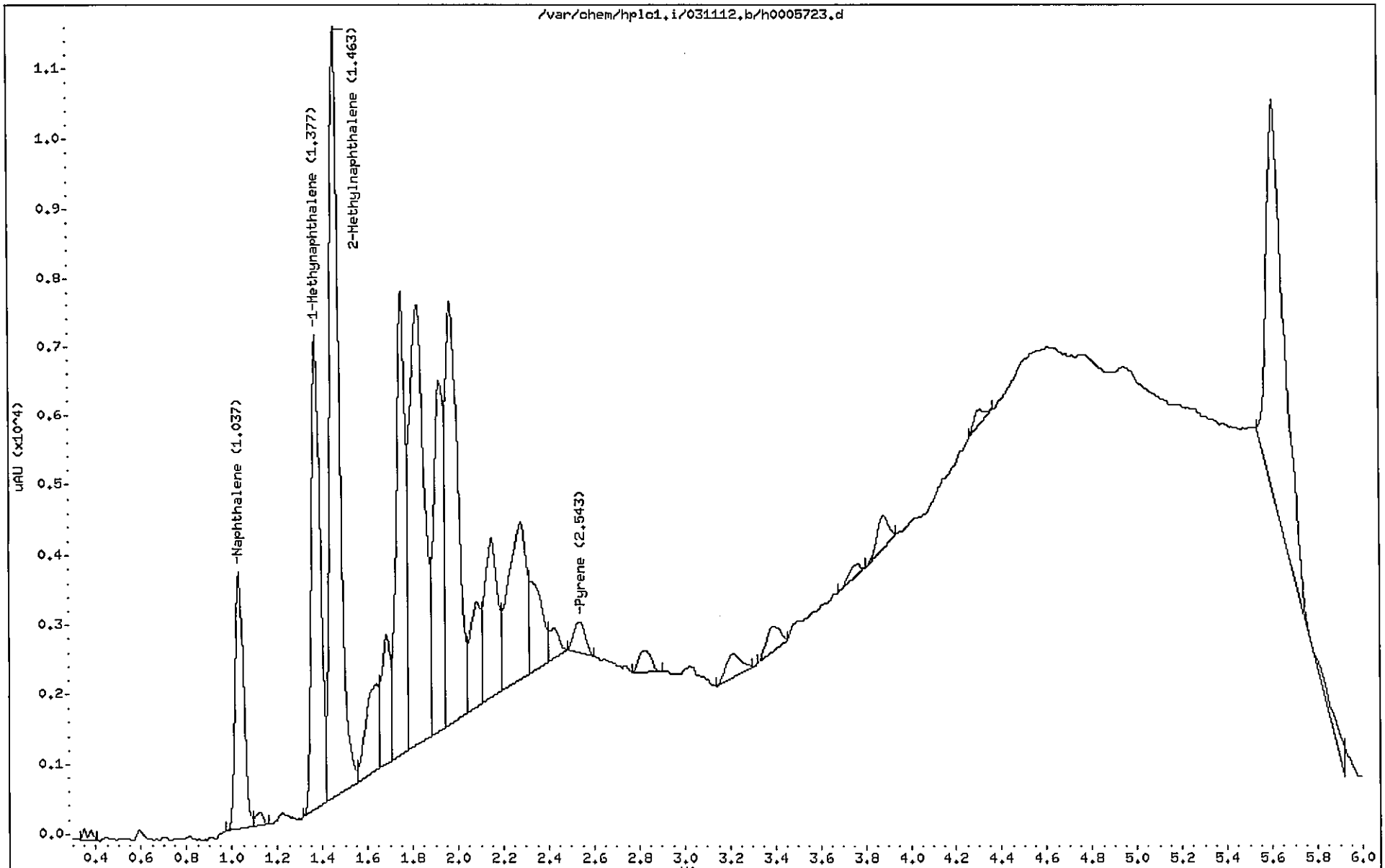
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005723.d
Date : 12-NOV-2003 17:23
Client ID:
Sample Info: 20311062418-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000512



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005723.d
Lab Smp Id: 20311062418
Inj Date : 12-NOV-2003 17:23
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062418-DL20
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	20.00000	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

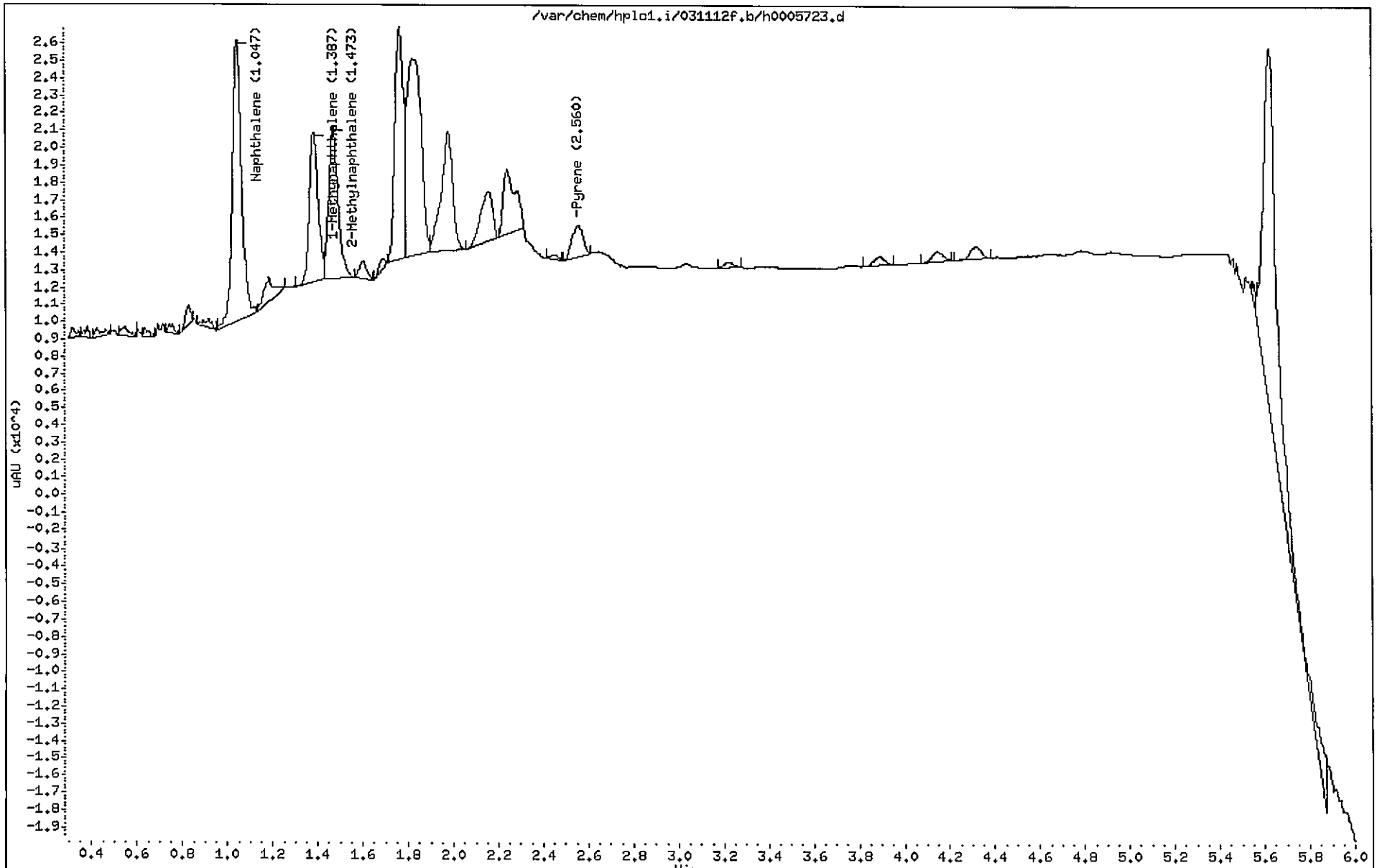
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Naphthalene	1.047	1.043	0.004	45592	4.34647	2900
3 1-Methynaphthalene	1.387	1.387	0.000	22948	10.5270	7020
4 2-Methylnaphthalene	1.473	1.473	0.000	25291	14.2358	9490
10 Pyrene	2.560	2.560	0.000	6112	0.18331	122

Data File: /var/chem/hplc1.i/031112f.b/h0005723.d
Date : 12-NOV-2003 17:23
Client ID:
Sample Info: 20311062418-DL20
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000514



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005713.d
Lab Smp Id: 20311062419
Inj Date : 12-NOV-2003 15:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062419-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

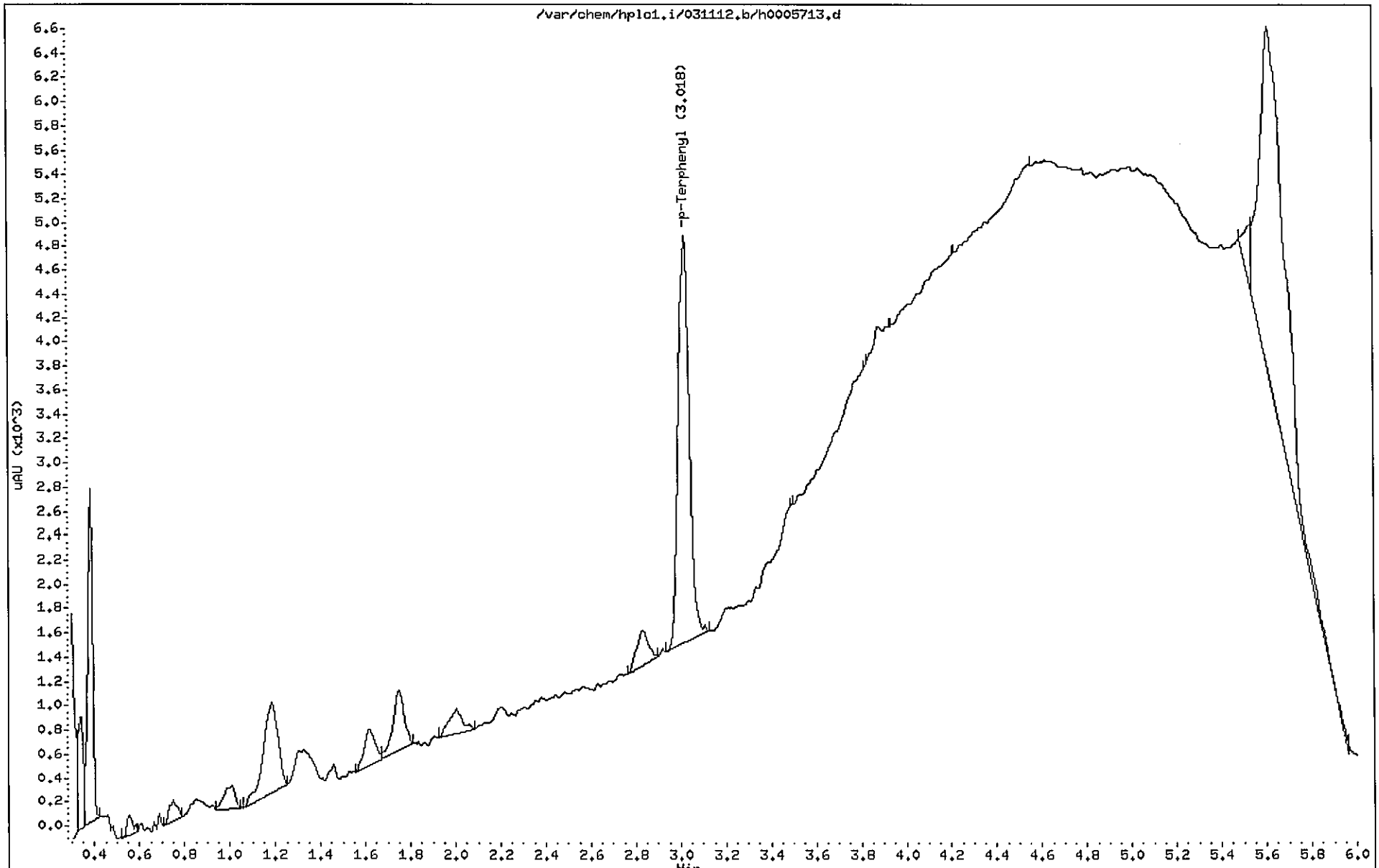
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	3.018	3.018	0.000	11409	1.63001	54.3

Data File: /var/chem/hplc1.i/031112.b/h0005713.d
Date : 12-NOV-2003 15:25
Client ID:
Sample Info: 20311062419-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000516



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005713.d
Lab Smp Id: 20311062419
Inj Date : 12-NOV-2003 15:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062419-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 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	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

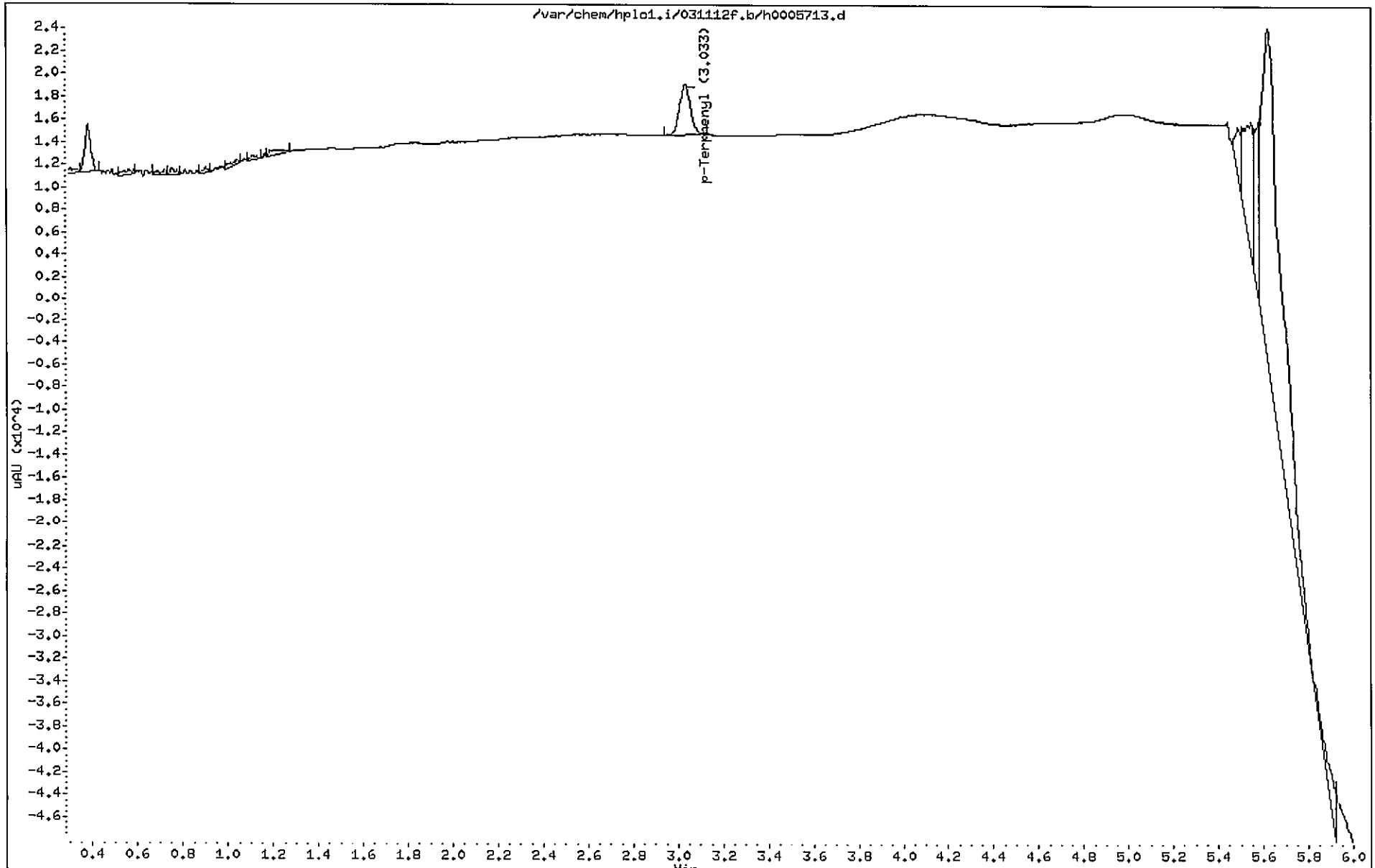
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	3.033	3.033	0.000	14937	1.71102	57.0

Data File: /var/chem/hplc1.i/031112f.b/h0005713.d
Date : 12-NOV-2003 15:25
Client ID:
Sample Info: 20311062419-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000518



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005681.d
Lab Smp Id: 20311062420
Inj Date : 10-NOV-2003 15:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062420-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	2.995	3.013	-0.018	11910	1.76040	1.76

Data File: /var/chem/hplc1.i/031110p.b/h0005681.d

Date : 10-NOV-2003 15:45

Client ID:

Sample Info: 20311062420-DL1

Volume Injected (uL): 10.0

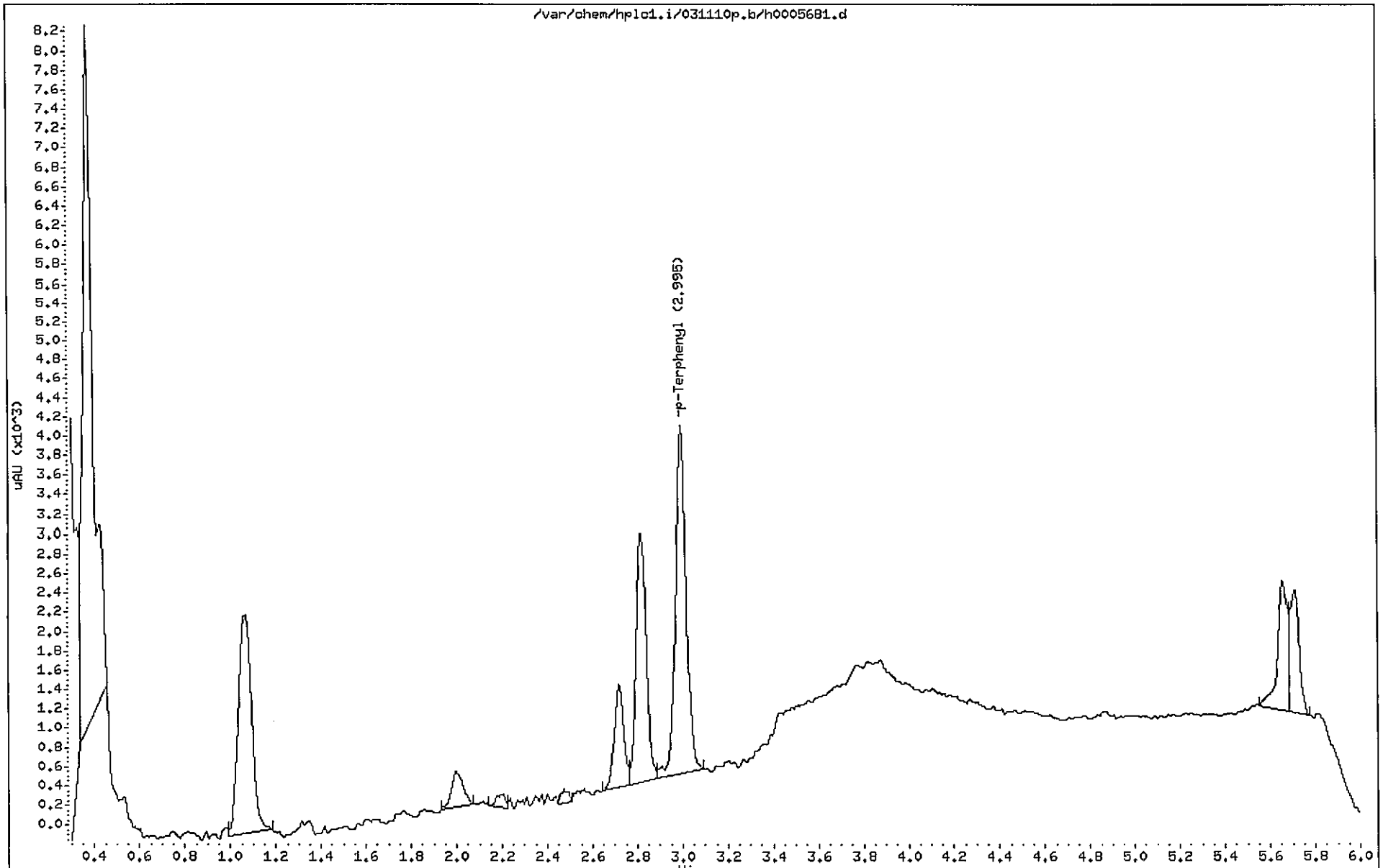
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000520



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005681.d
Lab Smp Id: 20311062420
Inj Date : 10-NOV-2003 15:45
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062420-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 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

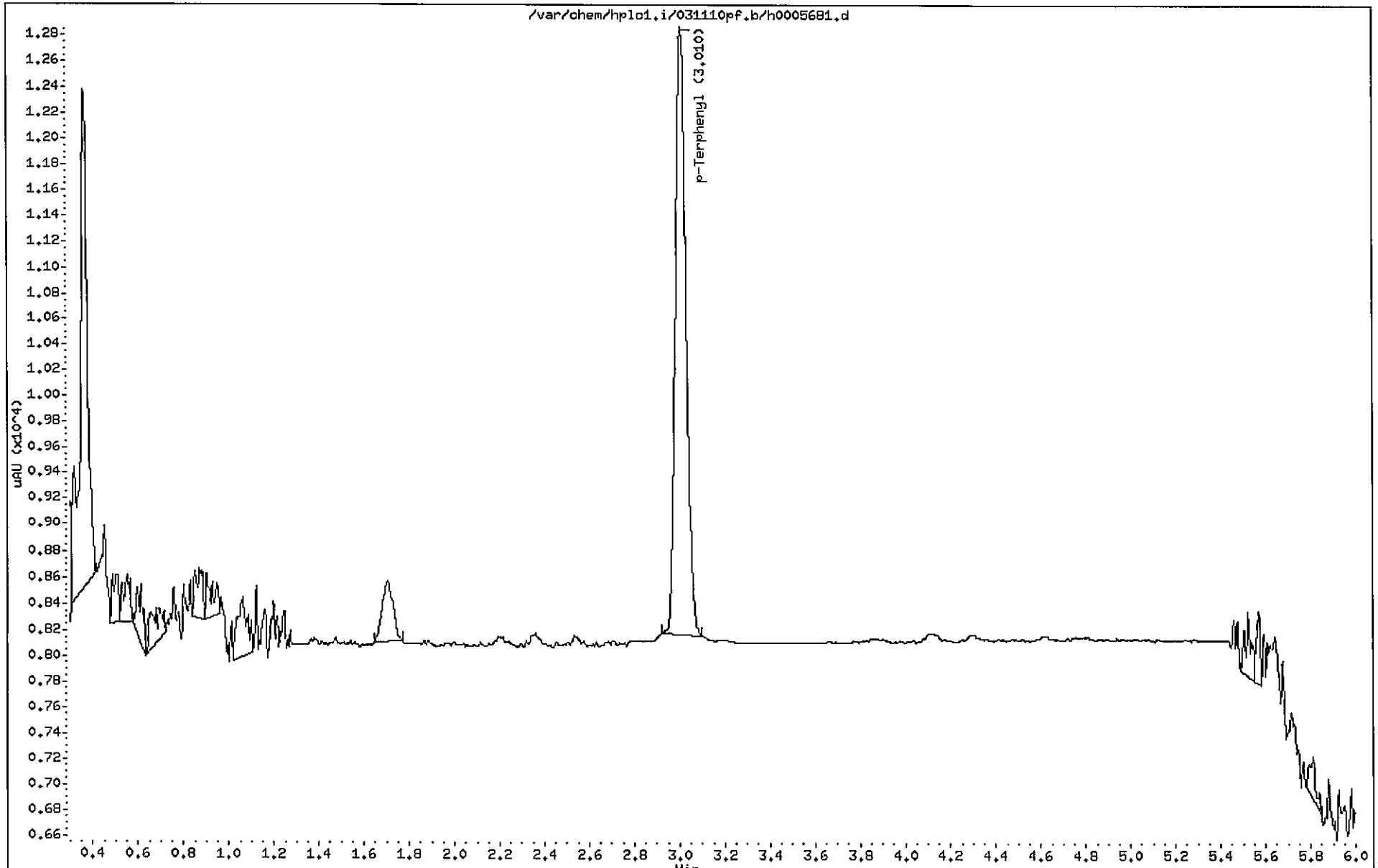
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	3.010	3.027	-0.017	15087	1.65139	1.65

Data File: /var/chem/hplc1.i/031110pf.b/h0005681.d
Date : 10-NOV-2003 15:45
Client ID:
Sample Info: 20311062420-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000522



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005682.d
Lab Smp Id: 20311062421
Inj Date : 10-NOV-2003 15:51
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062421-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 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

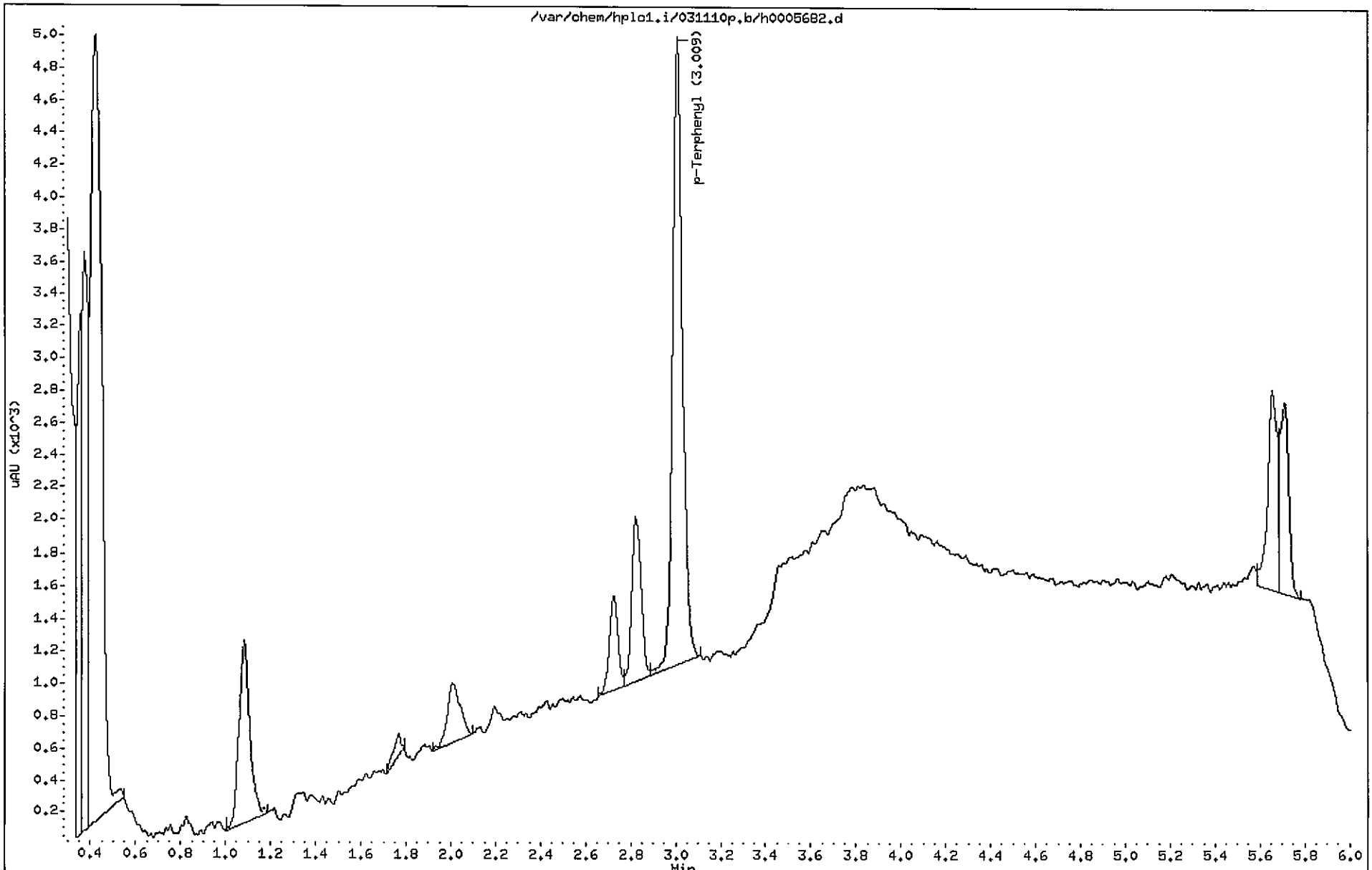
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
11 p-Terphenyl	3.009	3.013	-0.004	12121	1.79159	1.79

Data File: /var/chem/hplc1.i/031110p.b/h0005682.d
Date : 10-NOV-2003 15:51
Client ID:
Sample Info: 20311062421-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000524



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005682.d
Lab Smp Id: 20311062421
Inj Date : 10-NOV-2003 15:51
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062421-DL1
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	3.023	3.027	-0.004	15585	1.70590	1.71

Data File: /var/chem/hplc1.i/031110pf.b/h0005682.d

Date : 10-NOV-2003 15:51

Client ID:

Sample Info: 20311062421-DL1

Volume Injected (uL): 10.0

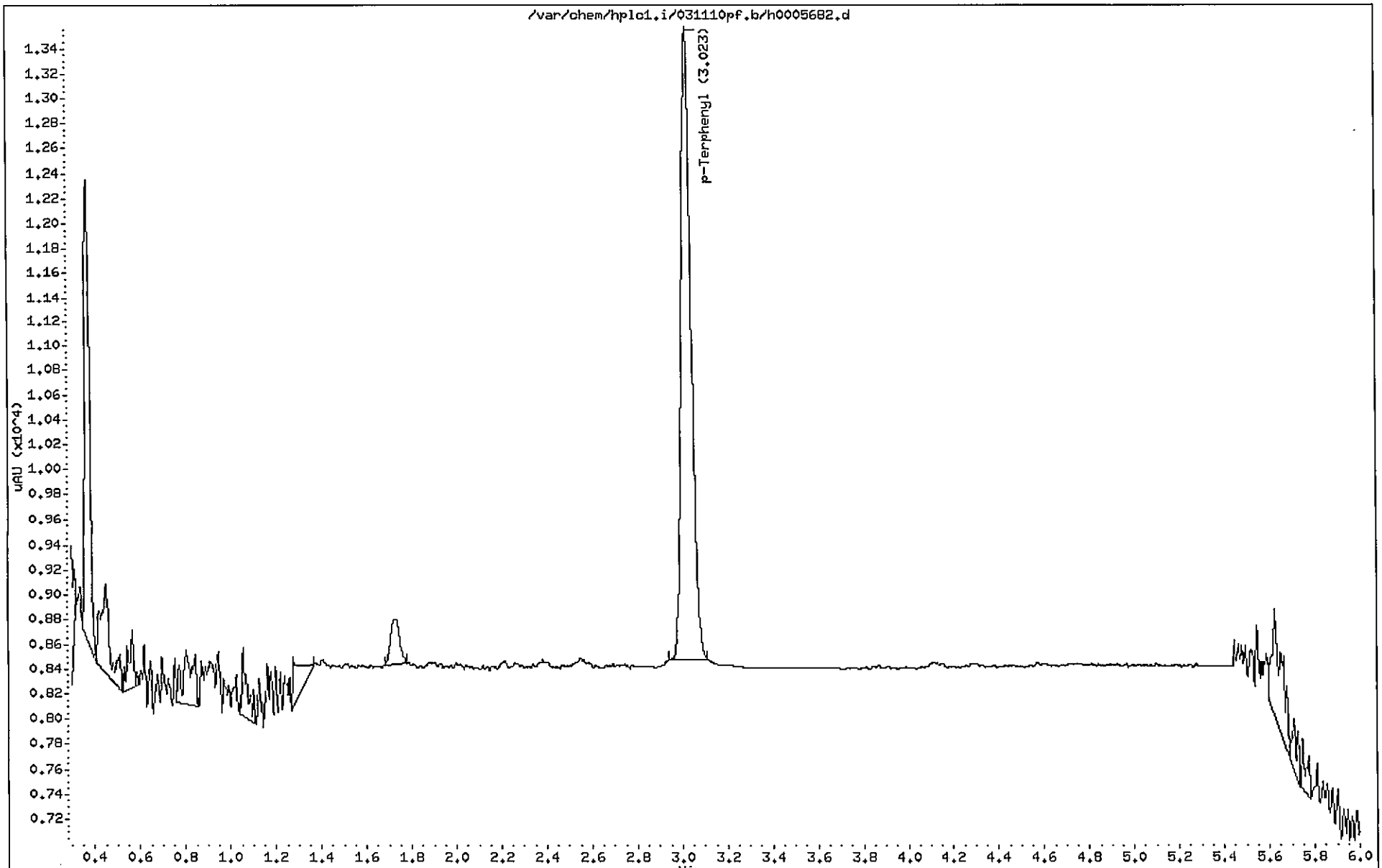
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000526



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005408.d
Lab Smp Id: 1003STD01 Client Smp ID: 1003STD01
Inj Date : 03-OCT-2003 08:38
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:38 Cal File: h0005408.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)
7 Phenanthrene	1.857	1.858	-0.001	2609	0.10000	0.101
8 Anthracene	2.098	2.098	0.000	5830	0.10000	0.106
9 Fluoranthene	2.331	2.332	-0.001	726	0.10000	0.101
10 Pyrene	2.504	2.505	-0.001	556	0.10000	0.0967
11 p-Terphenyl	2.964	2.965	-0.001	621	0.10000	0.0918(M)
12 Benzo(a)Anthracene	3.144	3.152	-0.008	1522	0.10000	0.0951
13 Chrysene	3.304	3.305	-0.001	2533	0.10000	0.0976(M)
14 Benzo(b)Fluoranthene	3.791	3.866	-0.075	1981	0.10000	0.0985
15 Benzo(k)Fluoranthene	4.044	4.045	-0.001	1068	0.10000	0.0869(M)
16 Benzo(a)Pyrene	4.218	4.225	-0.007	1603	0.10000	0.0903(M)
17 Dibenzo(a,h)Anthracene	4.524	4.618	-0.094	463	0.10000	0.105(M)
18 Benzo(g,h,i)Perylene	4.678	4.772	-0.094	691	0.10000	0.0959(M)

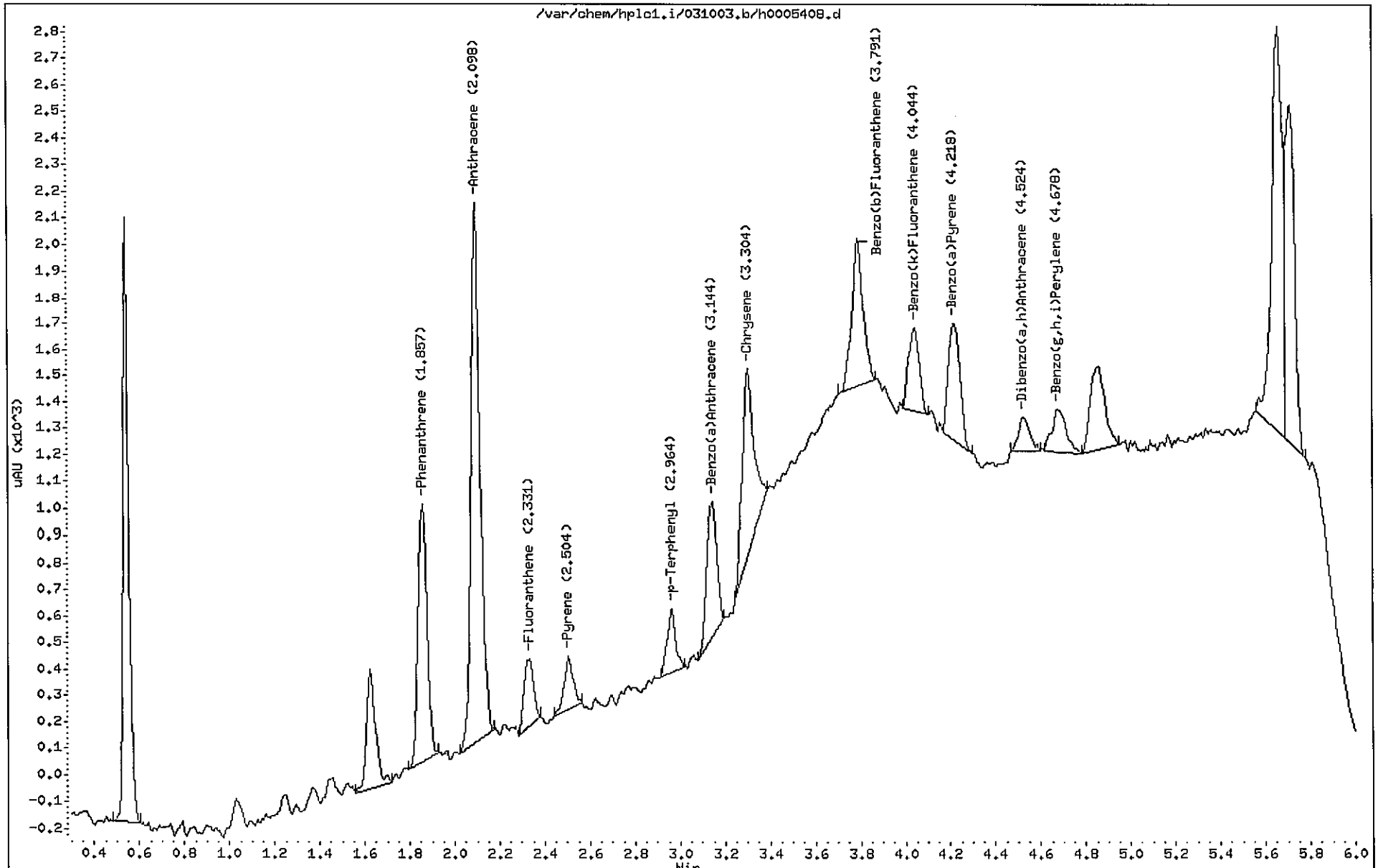
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003.b/h0005408.d
Date : 03-OCT-2003 08:38
Client ID: 1003STD01
Sample Info: 1003STD01
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

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

000529



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005407.d
Lab Smp Id: 1003STD02 Client Smp ID: 1003STD02
Inj Date : 03-OCT-2003 08:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:31 Cal File: h0005407.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

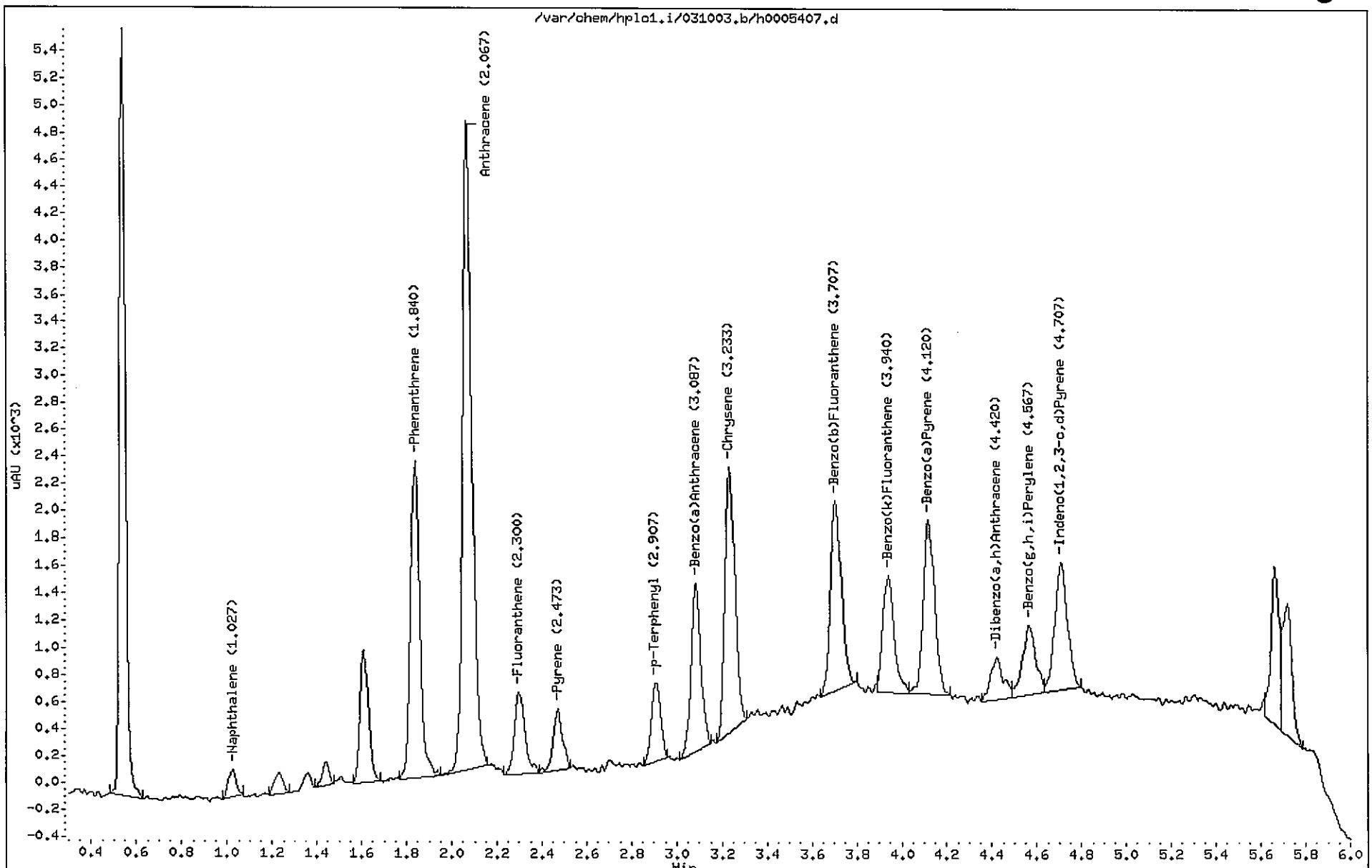
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.027	1.025	0.002	489	0.25000	0.203
7 Phenanthrene	1.840	1.858	-0.018	6609	0.25000	0.255
8 Anthracene	2.067	2.098	-0.031	13984	0.25000	0.254
9 Fluoranthene	2.300	2.332	-0.032	1904	0.25000	0.266
10 Pyrene	2.473	2.505	-0.032	1334	0.25000	0.232
11 p-Terphenyl	2.907	2.965	-0.058	1594	0.25000	0.236
12 Benzo(a)Anthracene	3.087	3.152	-0.065	3774	0.25000	0.236
13 Chrysene	3.233	3.305	-0.072	6083	0.25000	0.235
14 Benzo(b)Fluoranthene	3.707	3.866	-0.159	4824	0.25000	0.240
15 Benzo(k)Fluoranthene	3.940	4.045	-0.105	2960	0.25000	0.241
16 Benzo(a)Pyrene	4.120	4.225	-0.105	4462	0.25000	0.251
17 Dibenzo(a,h)Anthracene	4.420	4.618	-0.198	1204	0.25000	0.274
18 Benzo(g,h,i)Perylene	4.567	4.772	-0.205	2110	0.25000	0.293
19 Indeno(1,2,3-c,d)Pyrene	4.707	4.972	-0.265	3643	0.25000	0.239

Data File: /var/chem/hplc1.i/031003.b/h0005407.d
Date : 03-OCT-2003 08:31
Client ID: 1003STD02
Sample Info: 1003STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000531



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005406.d
Lab Smp Id: 1003STD03 Client Smp ID: 1003STD03
Inj Date : 03-OCT-2003 08:24
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:24 Cal File: h0005406.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	1.030	1.025	0.005	1206	0.50000	0.501
6 Fluorene	1.623	1.625	-0.002	5421	0.50000	0.479
7 Phenanthrene	1.857	1.858	-0.001	12512	0.50000	0.483
8 Anthracene	2.090	2.098	-0.008	27157	0.50000	0.492
9 Fluoranthene	2.323	2.332	-0.009	3274	0.50000	0.457
10 Pyrene	2.497	2.505	-0.008	2787	0.50000	0.485
11 p-Terphenyl	2.937	2.965	-0.028	3266	0.50000	0.483
12 Benzo(a)Anthracene	3.117	3.152	-0.035	7848	0.50000	0.490
13 Chrysene	3.270	3.305	-0.035	12072	0.50000	0.465
14 Benzo(b)Fluoranthene	3.750	3.866	-0.116	9993	0.50000	0.497
15 Benzo(k)Fluoranthene	3.990	4.045	-0.055	5998	0.50000	0.488
16 Benzo(a)Pyrene	4.163	4.225	-0.062	8419	0.50000	0.474
17 Dibenzo(a,h)Anthracene	4.470	4.618	-0.148	2321	0.50000	0.528
18 Benzo(g,h,i)Perylene	4.610	4.772	-0.162	3783	0.50000	0.525

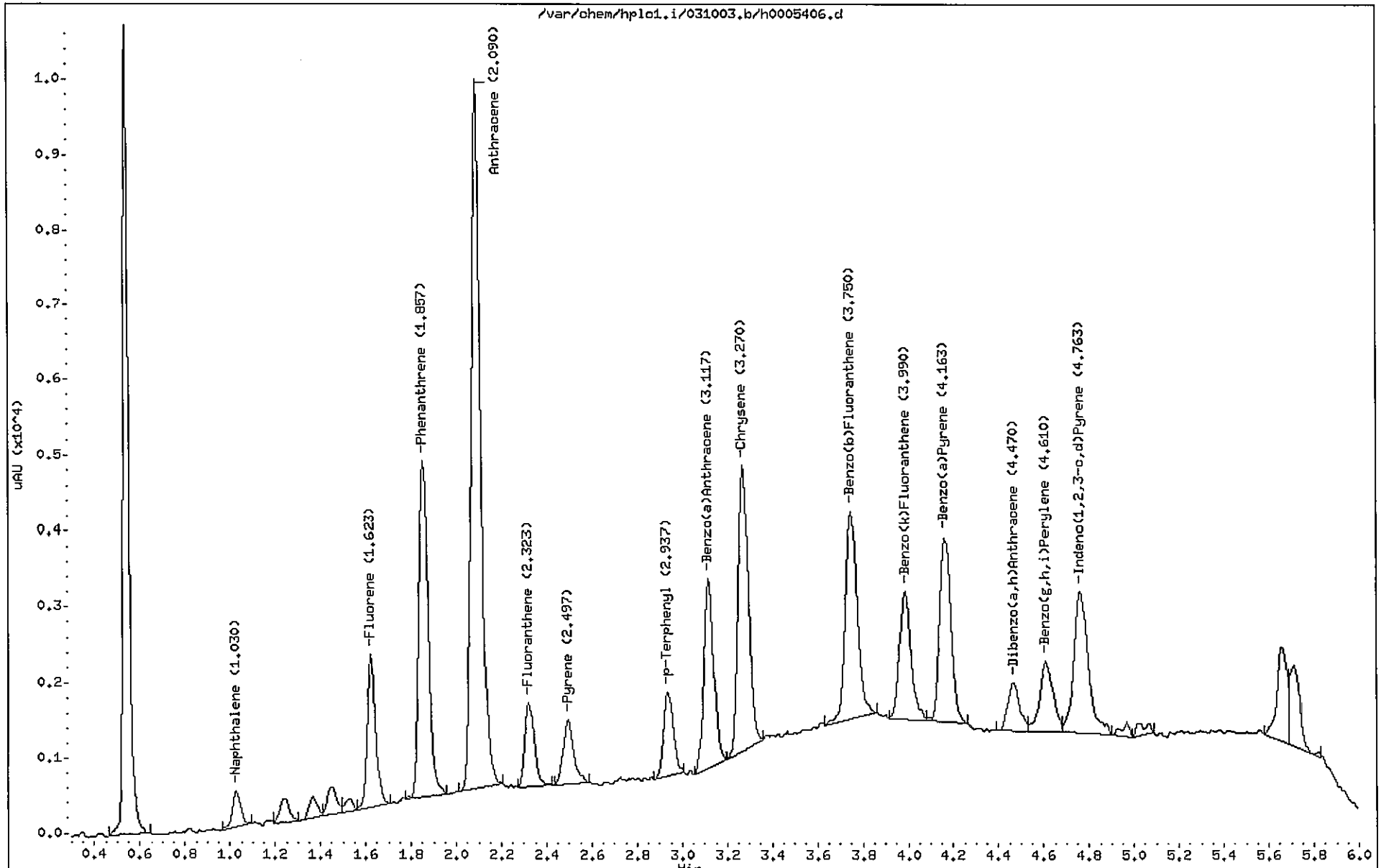
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
19 Indeno(1,2,3-c,d)Pyrene	4.763	4.972	-0.209	8276	0.50000	0.543

Data File: /var/chem/hplc1.i/031003.b/h0005406.d
Date : 03-OCT-2003 08:24
Client ID: 1003STD03
Sample Info: 1003STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000534



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005405.d
Lab Smp Id: 1003STD04 Client Smp ID: 1003STD04
Inj Date : 03-OCT-2003 08:17
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:17 Cal File: h0005405.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	1.033	1.025	0.008	2172	1.00000	0.903
2 Acenaphthylene	1.240	1.238	0.002	1579	1.00000	0.965
3 1-Methynaphthalene	1.367	1.365	0.002	1279	1.00000	0.928
4 2-Methylnaphthalene	1.453	1.445	0.008	1876	1.00000	0.945
5 Acenaphthene	1.527	1.518	0.009	819	1.00000	0.817
6 Fluorene	1.633	1.625	0.008	11128	1.00000	0.982
7 Phenanthrene	1.867	1.858	0.009	25745	1.00000	0.994
8 Anthracene	2.107	2.098	0.009	56191	1.00000	1.02
9 Fluoranthene	2.340	2.332	0.008	6785	1.00000	0.947
10 Pyrene	2.513	2.505	0.008	5439	1.00000	0.946
11 p-Terphenyl	2.973	2.965	0.008	6722	1.00000	0.994
12 Benzo(a)Anthracene	3.160	3.152	0.008	15444	1.00000	0.965
13 Chrysene	3.320	3.305	0.015	25268	1.00000	0.974
14 Benzo(b)Fluoranthene	3.813	3.866	-0.053	20637	1.00000	1.03

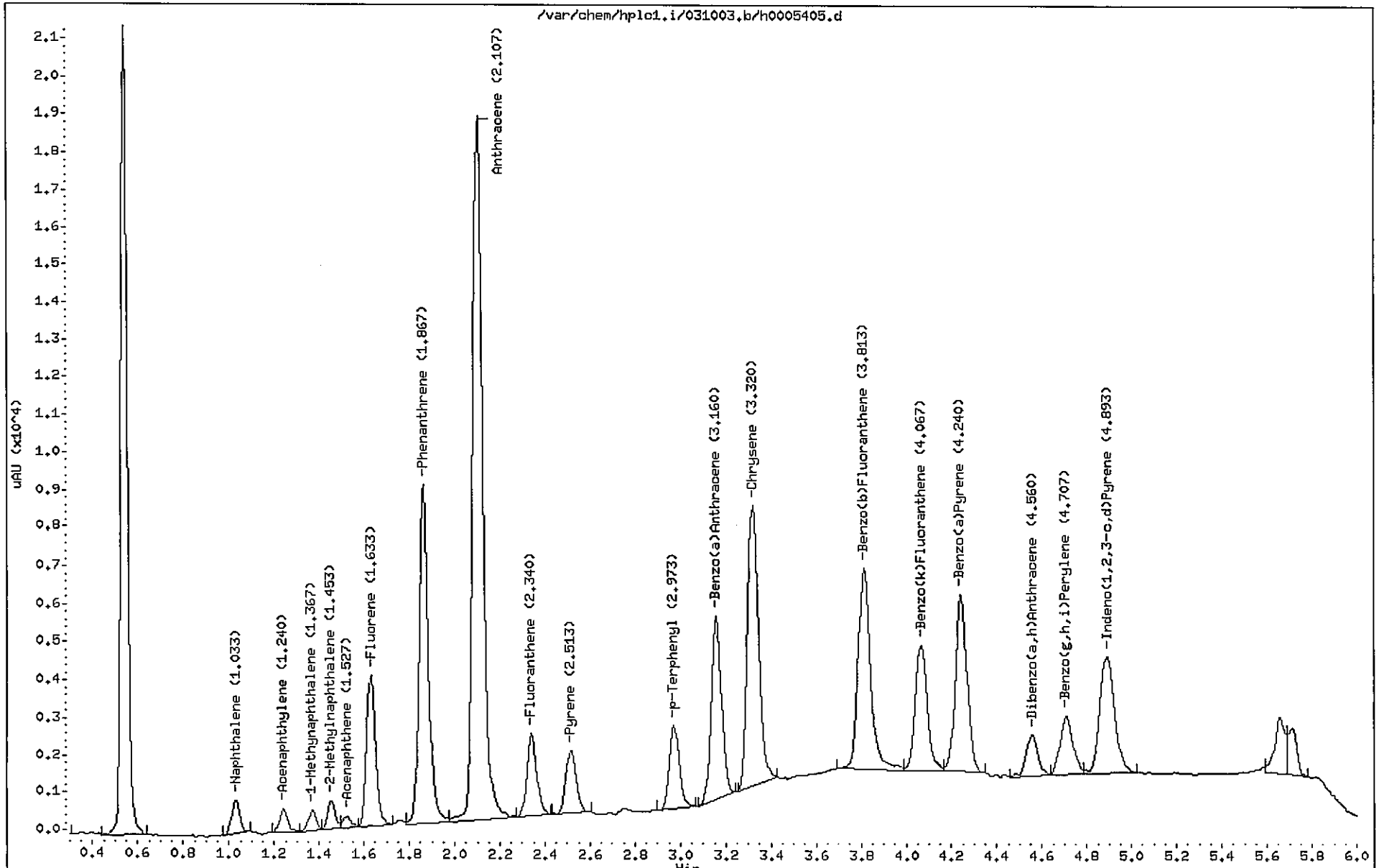
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.067	4.045	0.022	12389	1.00000	1.01
16 Benzo(a)Pyrene	4.240	4.225	0.015	16994	1.00000	0.957
17 Dibenzo(a,h)Anthracene	4.560	4.618	-0.058	4149	1.00000	0.943
18 Benzo(g,h,i)Perylene	4.707	4.772	-0.065	6351	1.00000	0.881
19 Indeno(1,2,3-c,d)Pyrene	4.893	4.972	-0.079	14347	1.00000	0.942

Data File: /var/chem/hplc1.i/031003.b/h0005405.d
Date : 03-OCT-2003 08:17
Client ID: 1003STD04
Sample Info: 1003STD04
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000537



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005404.d
Lab Smp Id: 1003STD05 Client Smp ID: 1003STD05
Inj Date : 03-OCT-2003 08:10
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:10 Cal File: h0005404.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

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
Compounds	RT	EXP RT	DLT RT	RESPONSE		
1 Naphthalene	1.018	1.025	-0.007	6440	2.50000	2.68
2 Acenaphthylene	1.231	1.238	-0.007	3860	2.50000	2.36
3 1-Methynaphthalene	1.357	1.365	-0.008	3303	2.50000	2.40
4 2-Methylnaphthalene	1.438	1.445	-0.007	4876	2.50000	2.46
5 Acenaphthene	1.511	1.518	-0.007	2598	2.50000	2.59
6 Fluorene	1.611	1.625	-0.014	28621	2.50000	2.53
7 Phenanthrene	1.837	1.858	-0.021	64947	2.50000	2.51
8 Anthracene	2.071	2.098	-0.027	140174	2.50000	2.54
9 Fluoranthene	2.304	2.332	-0.028	18074	2.50000	2.52
10 Pyrene	2.478	2.505	-0.027	14850	2.50000	2.58
11 p-Terphenyl	2.911	2.965	-0.054	17330	2.50000	2.56
12 Benzo(a)Anthracene	3.091	3.152	-0.061	40876	2.50000	2.55
13 Chrysene	3.237	3.305	-0.068	66955	2.50000	2.58
14 Benzo(b)Fluoranthene	3.711	3.866	-0.155	50177	2.50000	2.49

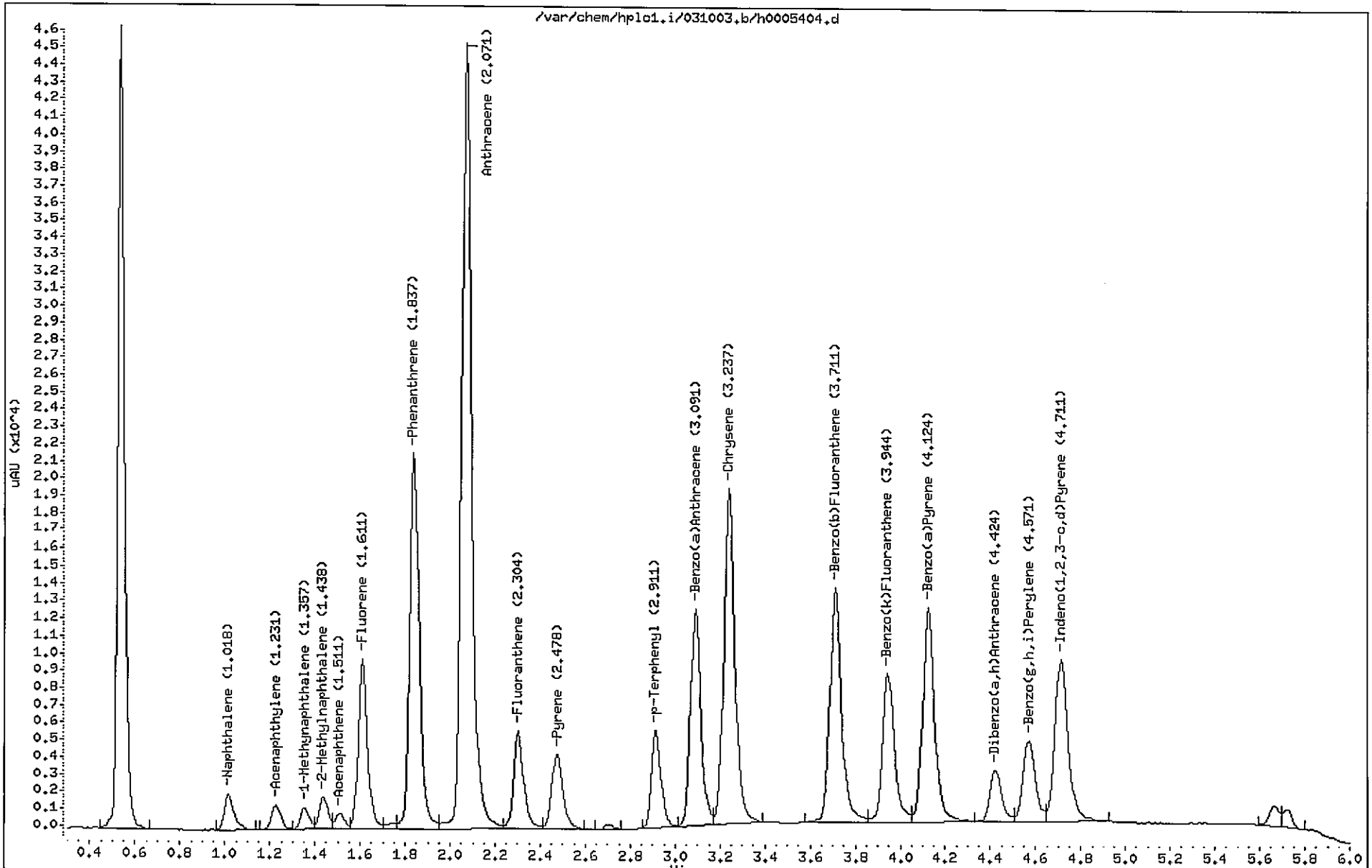
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	3.944	4.045	-0.101	32181	2.50000	2.62
16 Benzo(a)Pyrene	4.124	4.225	-0.101	46474	2.50000	2.62
17 Dibenzo(a,h)Anthracene	4.424	4.618	-0.194	10956	2.50000	2.49
18 Benzo(g,h,i)Perylene	4.571	4.772	-0.201	18101	2.50000	2.51
19 Indeno(1,2,3-c,d)Pyrene	4.711	4.972	-0.261	38830	2.50000	2.55

Data File: /var/chem/hplc1.i/031003.b/h0005404.d
Date : 03-OCT-2003 08:10
Client ID: 1003STD05
Sample Info: 1003STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000540



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005403.d
Lab Smp Id: 1003STD06 Client Smp ID: 1003STD06
Inj Date : 03-OCT-2003 08:03
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:03 Cal File: h0005403.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	1.022	1.025	-0.003	13315	5.00000	5.54
2 Acenaphthylene	1.235	1.238	-0.003	8638	5.00000	5.28
3 1-Methynaphthalene	1.362	1.365	-0.003	7353	5.00000	5.34
4 2-Methylnaphthalene	1.442	1.445	-0.003	10334	5.00000	5.20
5 Acenaphthene	1.515	1.518	-0.003	5626	5.00000	5.62
6 Fluorene	1.615	1.625	-0.010	58166	5.00000	5.14
7 Phenanthrene	1.848	1.858	-0.010	131857	5.00000	5.09
8 Anthracene	2.082	2.098	-0.016	279134	5.00000	5.06
9 Fluoranthene	2.315	2.332	-0.017	37064	5.00000	5.17
10 Pyrene	2.488	2.505	-0.017	30657	5.00000	5.33
11 p-Terphenyl	2.928	2.965	-0.037	34791	5.00000	5.14
12 Benzo(a)Anthracene	3.108	3.152	-0.044	82383	5.00000	5.15
13 Chrysene	3.262	3.305	-0.043	133970	5.00000	5.16
14 Benzo(b)Fluoranthene	3.735	3.866	-0.131	100547	5.00000	5.00

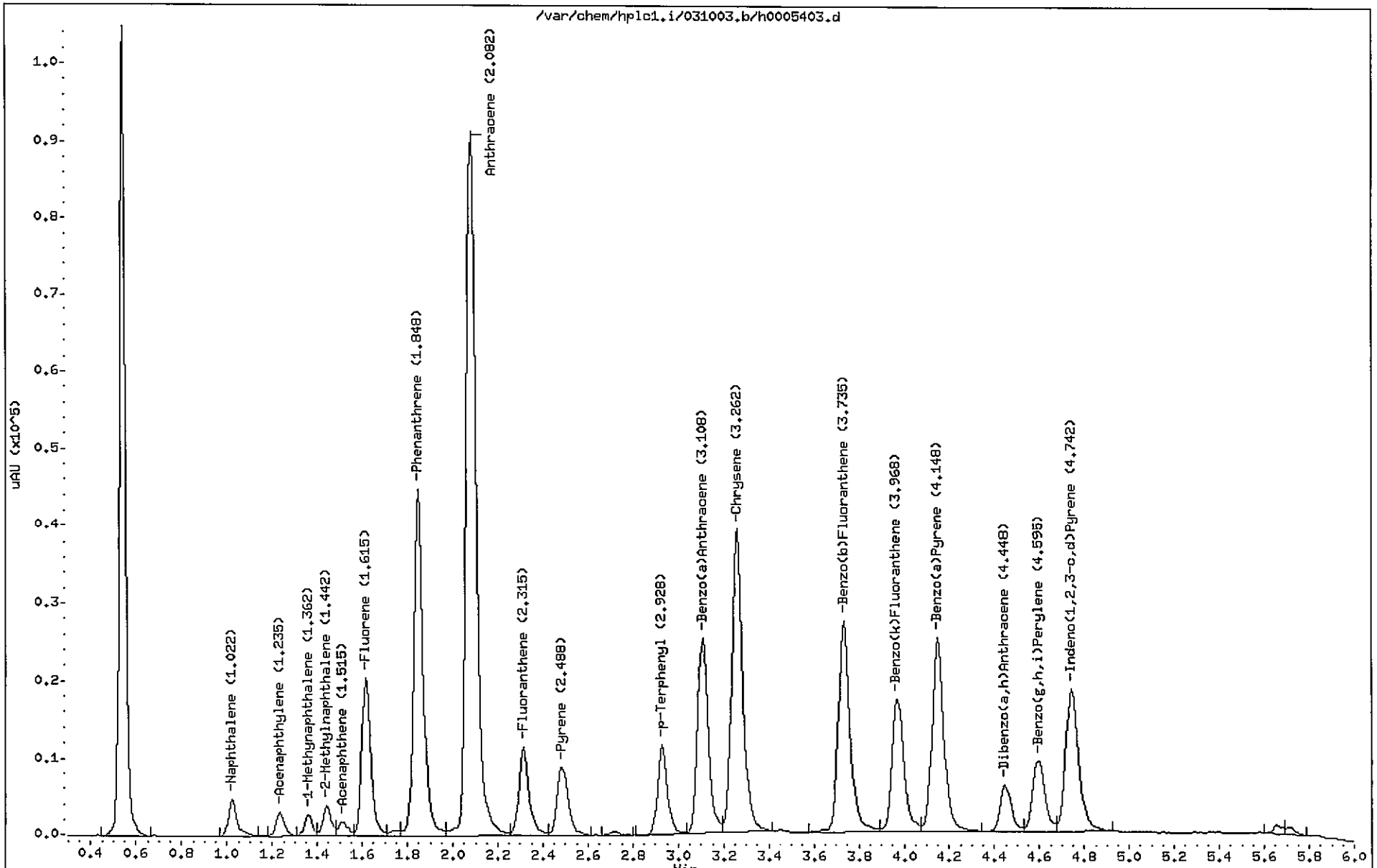
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	3.968	4.045	-0.077	63867	5.00000	5.20
16 Benzo(a)Pyrene	4.148	4.225	-0.077	92423	5.00000	5.20
17 Dibenzo(a,h)Anthracene	4.448	4.618	-0.170	20893	5.00000	4.75
18 Benzo(g,h,i)Perylene	4.595	4.772	-0.177	35267	5.00000	4.89
19 Indeno(1,2,3-c,d)Pyrene	4.742	4.972	-0.230	76338	5.00000	5.01

Data File: /var/chem/hplc1.i/031003.b/h0005403.d
Date : 03-OCT-2003 08:03
Client ID: 1003STD06
Sample Info: 1003STD06
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000543



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005402.d
Lab Smp Id: 1003STD07 Client Smp ID: 1003STD07
Inj Date : 03-OCT-2003 07:56
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:56 Cal File: h0005402.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	1.032	1.025	0.007	25423	10.0000	10.6
2 Acenaphthylene	1.246	1.238	0.008	16666	10.0000	10.2
3 1-Methynaphthalene	1.373	1.365	0.008	14352	10.0000	10.4
4 2-Methylnaphthalene	1.459	1.445	0.014	20031	10.0000	10.1
5 Acenaphthene	1.532	1.518	0.014	10421	10.0000	10.4
6 Fluorene	1.639	1.625	0.014	114945	10.0000	10.1
7 Phenanthrene	1.872	1.858	0.014	259182	10.0000	10.0
8 Anthracene	2.119	2.098	0.021	538548	10.0000	9.76
9 Fluoranthene	2.353	2.332	0.021	73129	10.0000	10.2
10 Pyrene	2.526	2.505	0.021	60668	10.0000	10.6
11 p-Terphenyl	2.986	2.965	0.021	72578	10.0000	10.7
12 Benzo(a)Anthracene	3.166	3.152	0.014	169703	10.0000	10.6
13 Chrysene	3.326	3.305	0.021	276897	10.0000	10.7
14 Benzo(b)Fluoranthene	3.812	3.866	-0.054	210465	10.0000	10.5

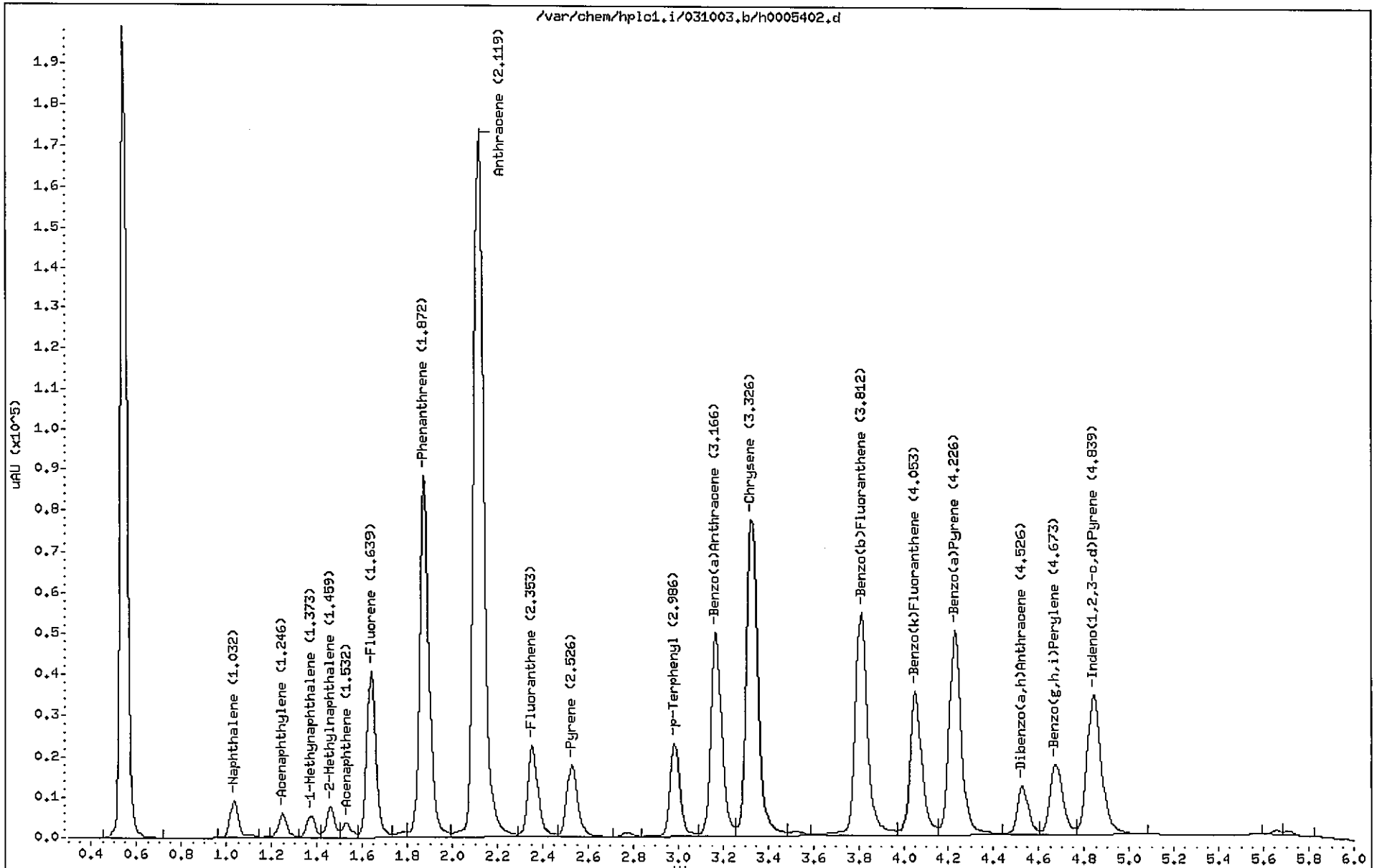
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.053	4.045	0.008	130567	10.0000	10.6
16 Benzo(a)Pyrene	4.226	4.225	0.001	188992	10.0000	10.6
17 Dibenzo(a,h)Anthracene	4.526	4.618	-0.092	42746	10.0000	9.72
18 Benzo(g,h,i)Perylene	4.673	4.772	-0.099	70789	10.0000	9.82
19 Indeno(1,2,3-c,d)Pyrene	4.839	4.972	-0.133	152560	10.0000	10.0

Data File: /var/chem/hplc1.i/031003.b/h0005402.d
Date : 03-OCT-2003 07:56
Client ID: 1003STD07
Sample Info: 1003STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000546



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005401.d
Lab Smp Id: 1003STD08 Client Smp ID: 1003STD08
Inj Date : 03-OCT-2003 07:49
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.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	1.025	1.025	0.000	50314	20.0000	20.9
2 Acenaphthylene	1.238	1.238	0.000	33220	20.0000	20.3
3 1-Methynaphthalene	1.365	1.365	0.000	27637	20.0000	20.1
4 2-Methylnaphthalene	1.445	1.445	0.000	40673	20.0000	20.5
5 Acenaphthene	1.518	1.518	0.000	19674	20.0000	19.6
6 Fluorene	1.625	1.625	0.000	228261	20.0000	20.2
7 Phenanthrene	1.858	1.858	0.000	513314	20.0000	19.8
8 Anthracene	2.098	2.098	0.000	1015932	20.0000	18.4
9 Fluoranthene	2.332	2.332	0.000	143435	20.0000	20.0
10 Pyrene	2.505	2.505	0.000	118556	20.0000	20.6
11 p-Terphenyl	2.965	2.965	0.000	142757	20.0000	21.1
12 Benzo(a)Anthracene	3.152	3.152	0.000	336547	20.0000	21.0
13 Chrysene	3.305	3.305	0.000	543604	20.0000	21.0
14 Benzo(b)Fluoranthene	3.798	3.866	-0.068	399923	20.0000	19.9

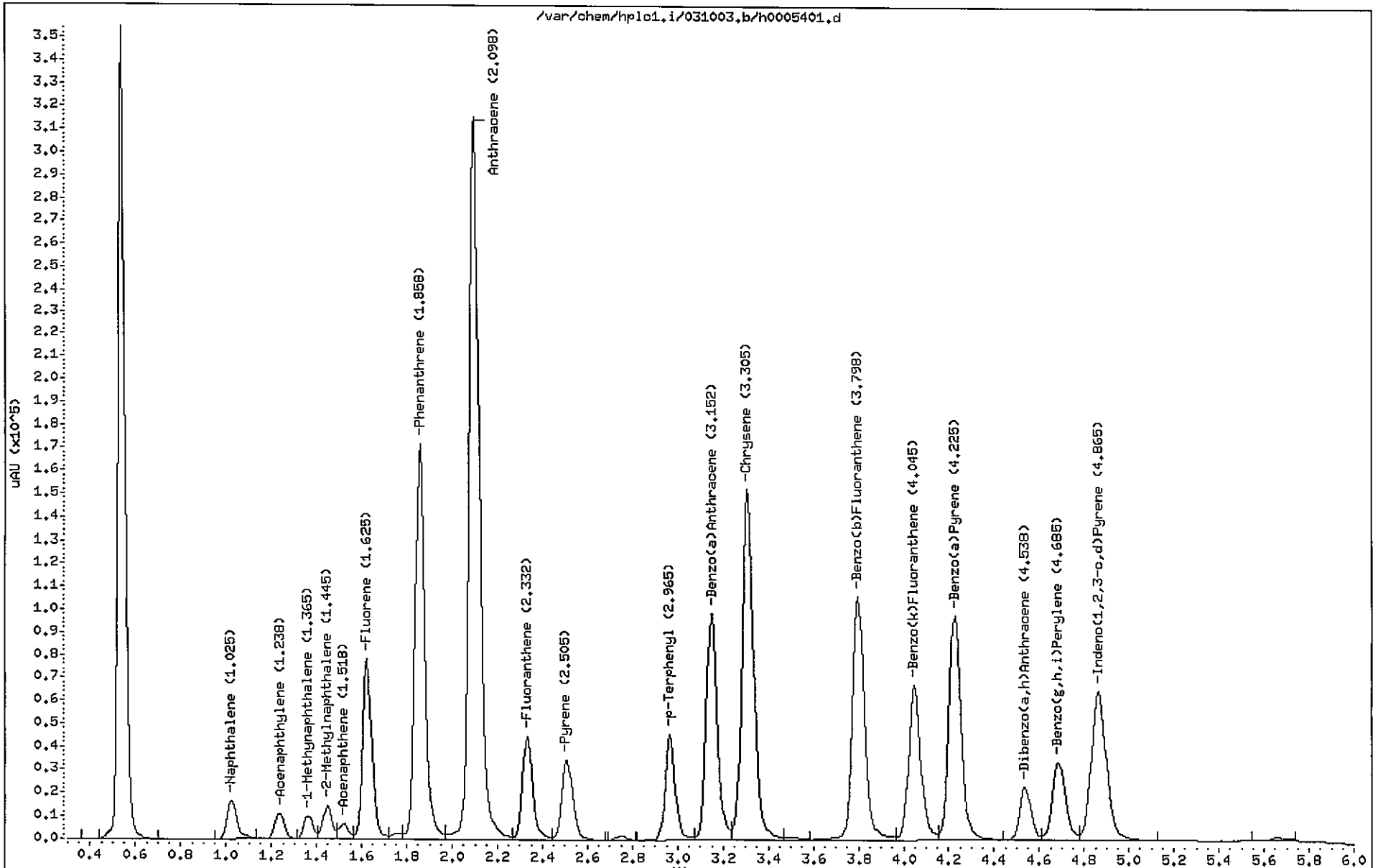
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.045	4.045	0.000	253921	20.0000	20.7
16 Benzo(a)Pyrene	4.225	4.225	0.000	367543	20.0000	20.7
17 Dibenzo(a,h)Anthracene	4.538	4.618	-0.080	82516	20.0000	18.8
18 Benzo(g,h,i)Perylene	4.685	4.772	-0.087	140599	20.0000	19.5
19 Indeno(1,2,3-c,d)Pyrene	4.865	4.972	-0.107	302538	20.0000	19.9

Data File: /var/chem/hplc1.i/031003.b/h0005401.d
Date : 03-OCT-2003 07:49
Client ID: 1003STD08
Sample Info: 1003STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000549



Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1003PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/031003.b/flpnauv.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 1003PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	5.19	103.80	80-120
2 Acenaphthylene	5.00	5.15	102.96	80-120
3 1-Methynaphthalene	10.0	11.5	115.30	80-120
4 2-Methylnaphthalen	10.0	10.2	102.14	80-120
5 Acenaphthene	10.0	9.87	98.75	80-120
6 Fluorene	1.00	1.07	106.87	80-120
7 Phenanthrene	0.400	0.422	105.50	80-120
8 Anthracene	0.200	0.210	104.87	80-120
9 Fluoranthene	0.500	0.509	101.74	80-120
10 Pyrene	1.00	0.967	96.70	80-120
12 Benzo(a)Anthracene	0.500	0.504	100.89	80-120
13 Chrysene	0.500	0.532	106.41	80-120
14 Benzo(b)Fluoranthe	0.200	0.178	88.85	80-120
15 Benzo(k)Fluoranthe	0.200	0.206	103.15	80-120
16 Benzo(a)Pyrene	0.500	0.533	106.69	80-120
17 Dibenzo(a,h)Anthra	2.00	2.00	100.08	80-120
18 Benzo(g,h,i)Peryle	0.800	0.798	99.81	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.452	90.40	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.25	106.26	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003.b/h0005409.d
Lab Smp Id: 1003PNAICV Client Smp ID: 1003PNAICV
Inj Date : 03-OCT-2003 08:58
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/031003.b/flpnauv.m
Meth Date : 17-Nov-2003 16:10 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCS
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.018	1.025	-0.007	12483	5.18982	5.19
2 Acenaphthylene	1.232	1.238	-0.006	8420	5.14783	5.15
3 1-Methynaphthalene	1.358	1.365	-0.007	15883	11.5297	11.5
4 2-Methylnaphthalene	1.445	1.445	0.000	20285	10.2140	10.2
5 Acenaphthene	1.512	1.518	-0.006	9893	9.87483	9.87
6 Fluorene	1.618	1.625	-0.007	12105	1.06873	1.07
7 Phenanthrene	1.845	1.858	-0.013	10931	0.42199	0.422
8 Anthracene	2.078	2.098	-0.020	11570	0.20975	0.210
9 Fluoranthene	2.318	2.332	-0.014	3646	0.50872	0.509
10 Pyrene	2.492	2.505	-0.013	5557	0.96696	0.967
11 p-Terphenyl	2.945	2.965	-0.020	28758	4.25054	4.25
12 Benzo(a)Anthracene	3.125	3.152	-0.027	8076	0.50443	0.504
13 Chrysene	3.278	3.305	-0.027	13801	0.53204	0.532
14 Benzo(b)Fluoranthene	3.772	3.866	-0.094	3575	0.17769	0.178

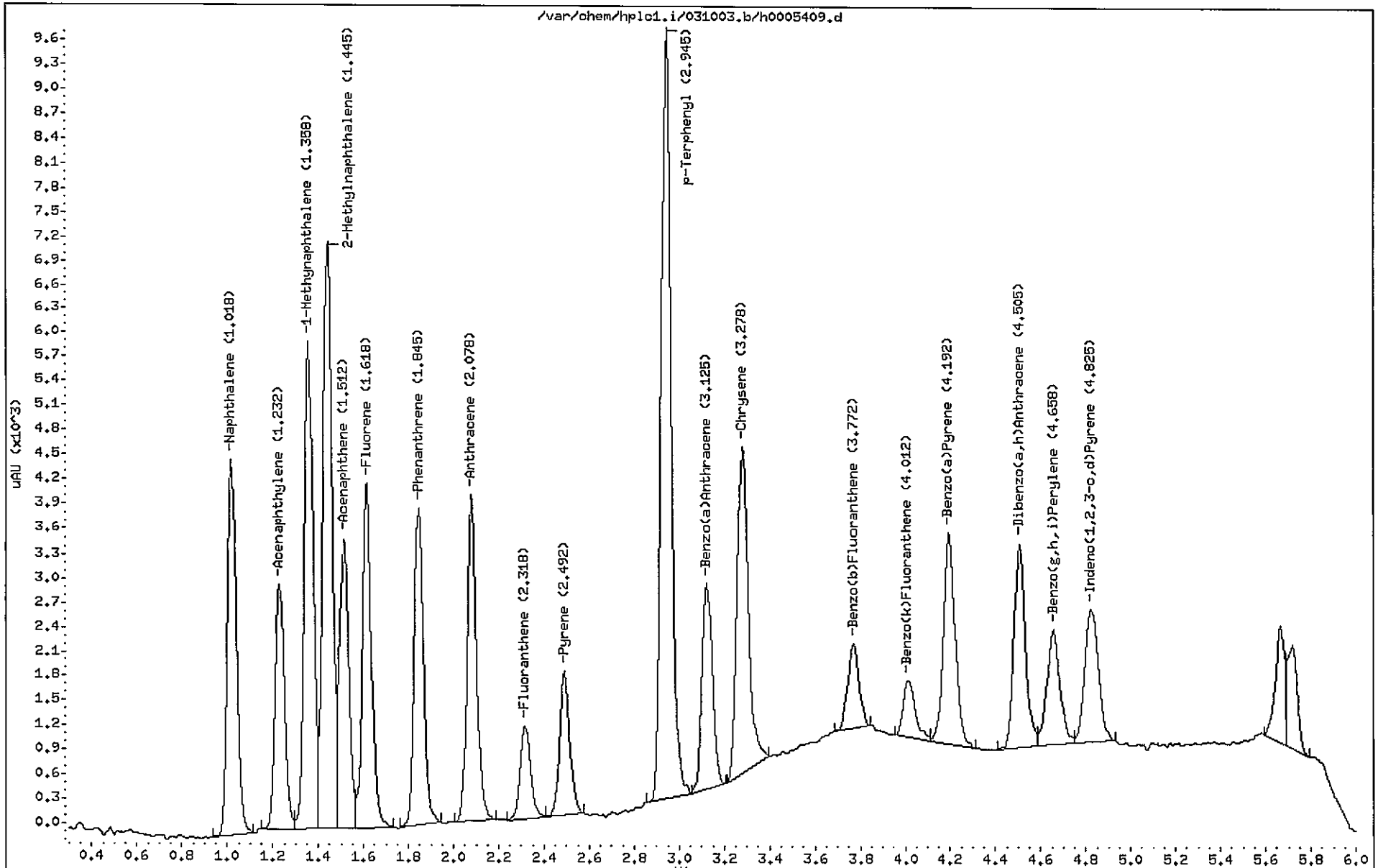
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.012	4.045	-0.033	2535	0.20630	0.206
16 Benzo(a)Pyrene	4.192	4.225	-0.033	9473	0.53346	0.533
17 Dibenzo(a,h)Anthracene	4.505	4.618	-0.113	8807	2.00168	2.00
18 Benzo(g,h,i)Perylene	4.658	4.772	-0.114	5756	0.79848	0.798
19 Indeno(1,2,3-c,d)Pyrene	4.825	4.972	-0.147	6887	0.45202	0.452

Data File: /var/chem/hplc1.i/031003.b/h0005409.d
Date : 03-OCT-2003 08:58
Client ID: 1003PNAICV
Sample Info: 1003PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000553



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005676.d
Lab Smp Id: 1110STD05 Client Smp ID: 1110STD05
Inj Date : 10-NOV-2003 14:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 1110STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 Continuing Calibration Sample
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

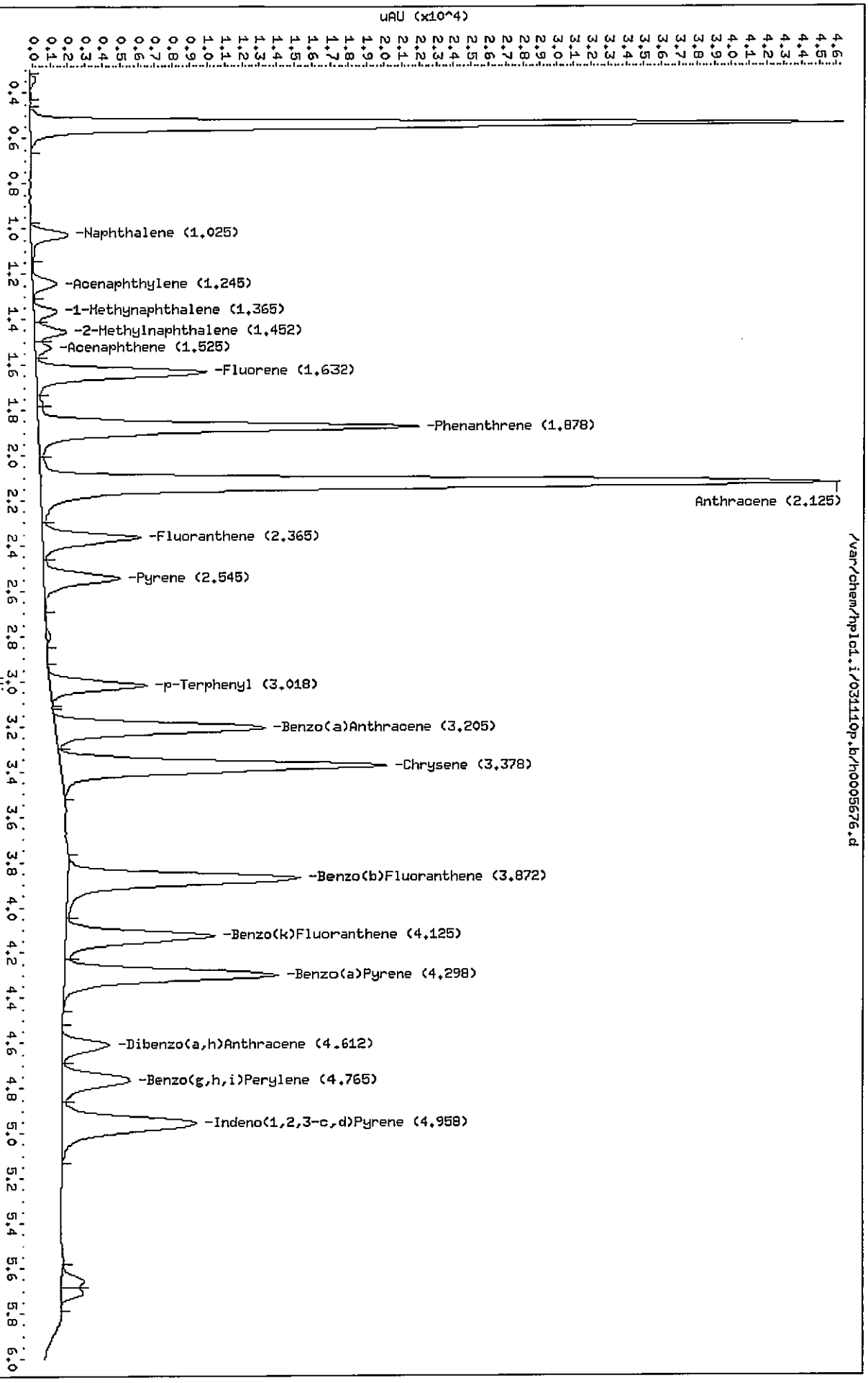
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.025	1.026	-0.001	6493	2.50000	2.70
2 Acenaphthylene	1.245	1.246	-0.001	4123	2.50000	2.52
3 1-Methynaphthalene	1.365	1.373	-0.008	3540	2.50000	2.57
4 2-Methylnaphthalene	1.452	1.455	-0.003	5132	2.50000	2.58
5 Acenaphthene	1.525	1.528	-0.003	2351	2.50000	2.35
6 Fluorene	1.632	1.635	-0.003	29187	2.50000	2.58
7 Phenanthrene	1.878	1.879	-0.001	67280	2.50000	2.60
8 Anthracene	2.125	2.126	-0.001	144308	2.50000	2.62
9 Fluoranthene	2.365	2.366	-0.001	18622	2.50000	2.60
10 Pyrene	2.545	2.539	0.006	15881	2.50000	2.76
11 p-Terphenyl	3.018	3.013	0.005	17165	2.50000	2.54
12 Benzo(a)Anthracene	3.205	3.199	0.006	40351	2.50000	2.52
13 Chrysene	3.378	3.373	0.005	66569	2.50000	2.57
14 Benzo(b)Fluoranthene	3.872	3.872	0.000	50712	2.50000	2.52

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.125	4.133	-0.008	31686	2.50000	2.58
16 Benzo(a)Pyrene	4.298	4.306	-0.008	45405	2.50000	2.56
17 Dibenzo(a,h)Anthracene	4.612	4.619	-0.007	9724	2.50000	2.21
18 Benzo(g,h,i)Perylene	4.765	4.778	-0.013	16629	2.50000	2.31
19 Indeno(1,2,3-c,d)Pyrene	4.958	4.985	-0.027	37636	2.50000	2.47

Data File: /var/chem/hplc1.i/031110p.b/h0005676.d
Date : 10-NOV-2003 14:31
Client ID: 1110STD05
Sample Info: 1110STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



000556

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005683.d
Lab Smp Id: 1110STD05 Client Smp ID: 1110STD05
Inj Date : 10-NOV-2003 16:48
Operator : jdt Inst ID: hplc1.i
Smp Info : 1110STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 Continuing Calibration Sample
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

					AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
Compounds	RT	EXP RT	DLT RT	RESPONSE		
1 Naphthalene	1.029	1.026	0.003	5527	2.50000	2.30
2 Acenaphthylene	1.242	1.246	-0.004	3849	2.50000	2.35
3 1-Methynaphthalene	1.369	1.373	-0.004	3372	2.50000	2.45
4 2-Methylnaphthalene	1.456	1.455	0.001	4856	2.50000	2.45
5 Acenaphthene	1.529	1.528	0.001	2211	2.50000	2.21
6 Fluorene	1.636	1.635	0.001	29088	2.50000	2.57
7 Phenanthrene	1.876	1.879	-0.003	67051	2.50000	2.59
8 Anthracene	2.123	2.126	-0.003	143672	2.50000	2.60
9 Fluoranthene	2.362	2.366	-0.004	18213	2.50000	2.54
10 Pyrene	2.542	2.539	0.003	14859	2.50000	2.59
11 p-Terphenyl	3.016	3.013	0.003	17083	2.50000	2.52
12 Benzo(a)Anthracene	3.203	3.199	0.004	40322	2.50000	2.52
13 Chrysene	3.369	3.373	-0.004	66190	2.50000	2.55
14 Benzo(b)Fluoranthene	3.869	3.872	-0.003	52428	2.50000	2.61

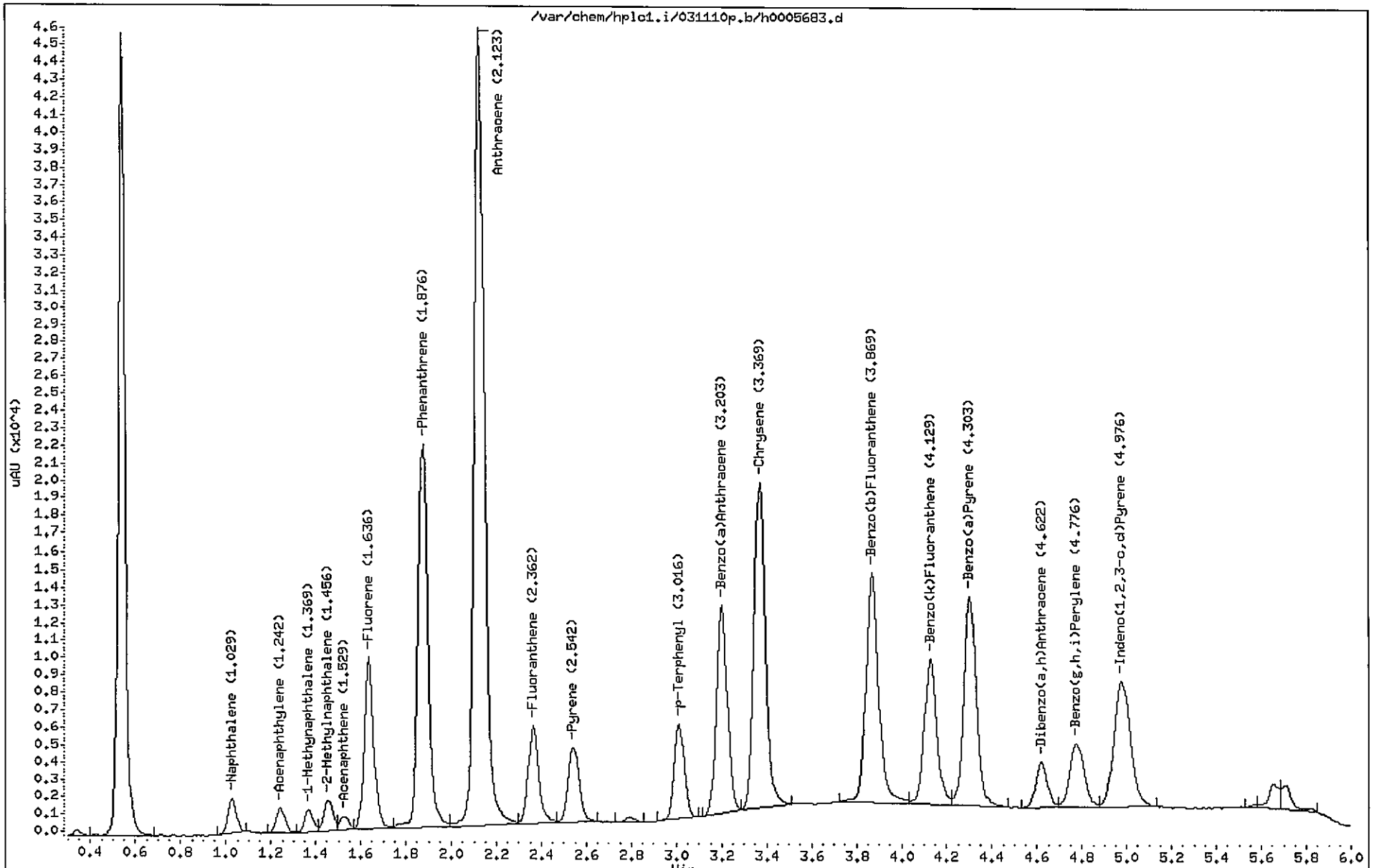
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.129	4.133	-0.004	32556	2.50000	2.65
16 Benzo(a)Pyrene	4.303	4.306	-0.003	46030	2.50000	2.59
17 Dibenzo(a,h)Anthracene	4.622	4.619	0.003	9653	2.50000	2.19
18 Benzo(g,h,i)Perylene	4.776	4.778	-0.002	16434	2.50000	2.28
19 Indeno(1,2,3-c,d)Pyrene	4.976	4.985	-0.009	36745	2.50000	2.41

Data File: /var/chem/hplc1.i/031110p.b/h0005683.d
Date : 10-NOV-2003 16:48
Client ID: 1110STD05
Sample Info: 1110STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000559



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005408.d
Lab Smp Id: 1003STD01 Client Smp ID: 1003STD01
Inj Date : 03-OCT-2003 08:38
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:38 Cal File: h0005408.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)
7 Phenanthrene	1.873	1.877	-0.004	1673	0.10000	0.104(M)
8 Anthracene	2.107	2.110	-0.003	685	0.10000	0.121(M)
9 Fluoranthene	2.340	2.347	-0.007	573	0.10000	0.104(M)
10 Pyrene	2.517	2.553	-0.036	3406	0.10000	0.0993(M)
12 Benzo(a)Anthracene	3.153	3.213	-0.060	2439	0.10000	0.0877(M)
13 Chrysene	3.313	3.377	-0.064	207	0.10000	0.0516(M)
14 Benzo(b)Fluoranthene	3.807	3.823	-0.016	2386	0.10000	0.101(M)
15 Benzo(k)Fluoranthene	4.053	4.087	-0.034	5524	0.10000	0.106(M)
16 Benzo(a)Pyrene	4.230	4.257	-0.027	4560	0.10000	0.103(M)
17 Dibenzo(a,h)Anthracene	4.543	4.630	-0.087	1882	0.10000	0.108(M)
18 Benzo(g,h,i)Perylene	4.690	4.787	-0.097	1668	0.10000	0.111(M)

QC Flag Legend

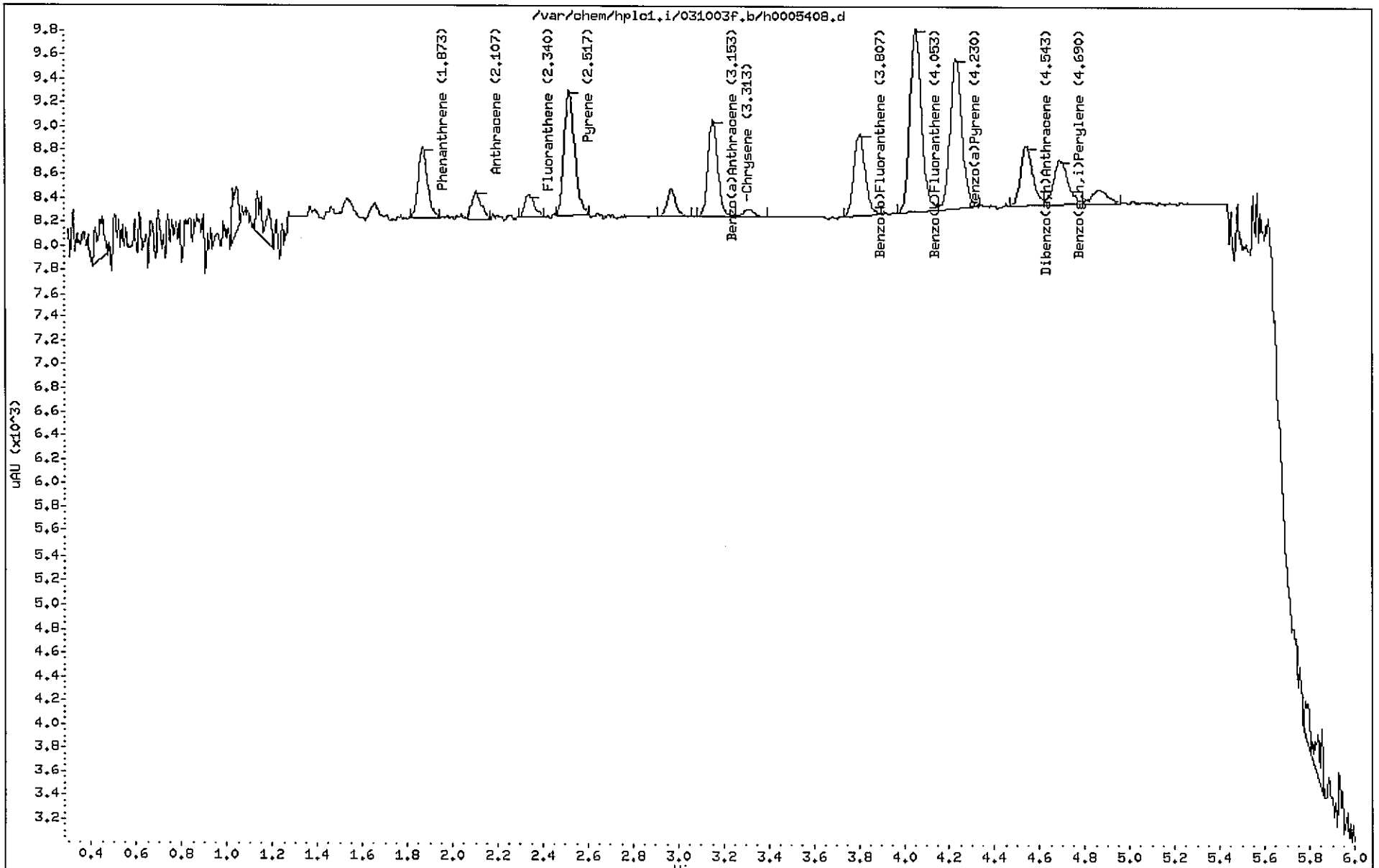
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005408.d
Date : 03-OCT-2003 08:38
Client ID: 1003STD01
Sample Info: 1003STD01
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000562



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005407.d
Lab Smp Id: 1003STD02 Client Smp ID: 1003STD02
Inj Date : 03-OCT-2003 08:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:31 Cal File: h0005407.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	1.037	1.040	-0.003	2863	0.25000	0.254(M)
7 Phenanthrene	1.853	1.877	-0.024	3740	0.25000	0.233
8 Anthracene	2.083	2.110	-0.027	1185	0.25000	0.210
9 Fluoranthene	2.317	2.347	-0.030	1453	0.25000	0.263
10 Pyrene	2.487	2.553	-0.066	8493	0.25000	0.248
11 p-Terphenyl	2.923	2.980	-0.057	1956	0.25000	0.214(M)
12 Benzo(a)Anthracene	3.100	3.213	-0.113	6734	0.25000	0.242(M)
13 Chrysene	3.247	3.377	-0.130	572	0.25000	0.143(M)
14 Benzo(b)Fluoranthene	3.723	3.823	-0.100	5826	0.25000	0.247
15 Benzo(k)Fluoranthene	3.957	4.087	-0.130	13283	0.25000	0.255(M)
16 Benzo(a)Pyrene	4.133	4.257	-0.124	10573	0.25000	0.240(M)
17 Dibenzo(a,h)Anthracene	4.433	4.630	-0.197	4357	0.25000	0.250(M)
18 Benzo(g,h,i)Perylene	4.580	4.787	-0.207	3759	0.25000	0.250(M)
19 Indeno(1,2,3-c,d)Pyrene	4.720	4.980	-0.260	1293	0.25000	0.275(MH)

QC Flag Legend

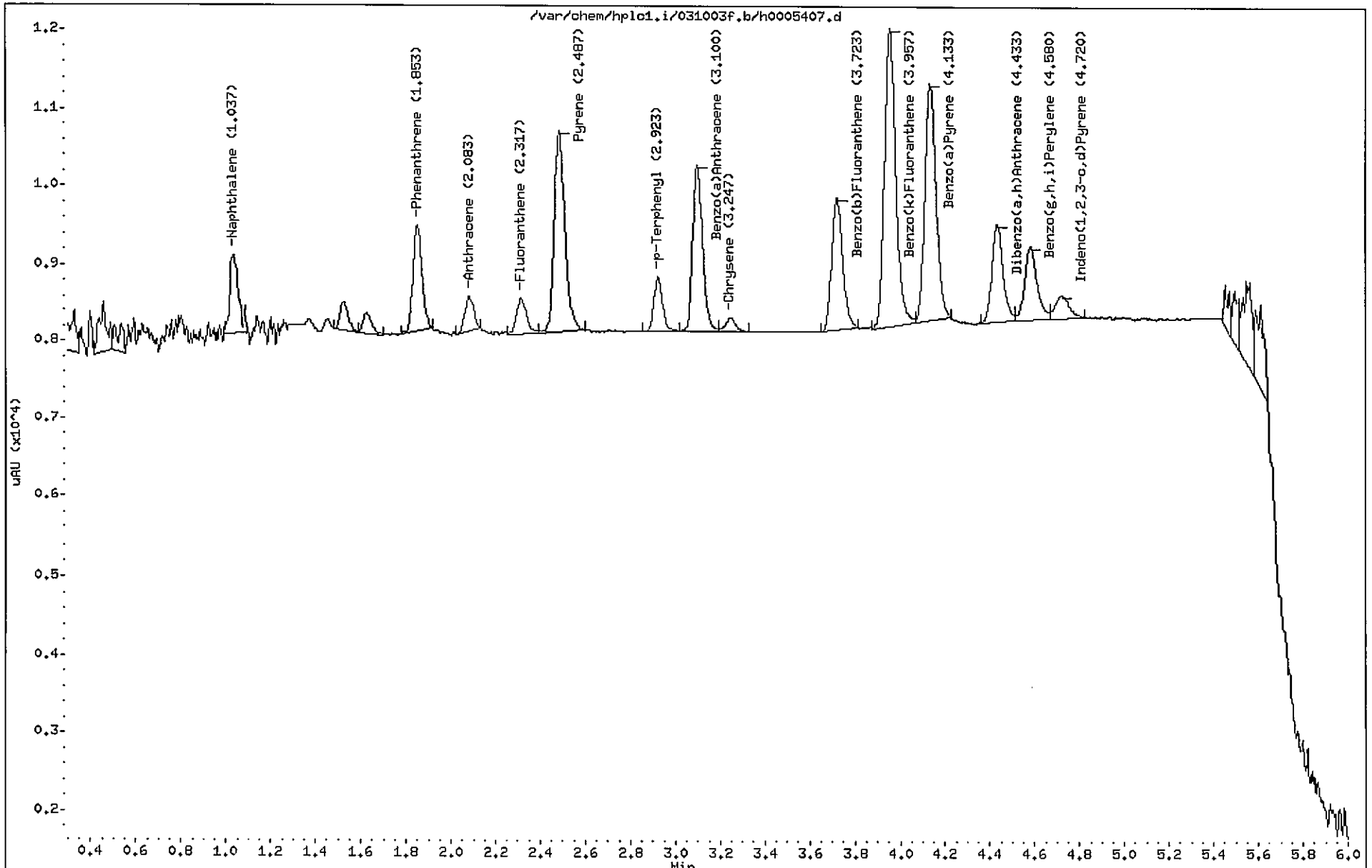
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /var/chem/hplc1.i/031003f.b/h0005407.d
Date : 03-OCT-2003 08:31
Client ID: 1003STD02
Sample Info: 1003STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000565



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005406.d
Lab Smp Id: 1003STD03 Client Smp ID: 1003STD03
Inj Date : 03-OCT-2003 08:24
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:24 Cal File: h0005406.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	1.043	1.040	0.003	6032	0.50000	0.535
3 1-Methynaphthalene	1.377	1.393	-0.016	763	0.50000	0.550
4 2-Methylnaphthalene	1.470	1.480	-0.010	638	0.50000	0.476
5 Acenaphthene	1.537	1.550	-0.013	1971	0.50000	0.492
7 Phenanthrene	1.873	1.877	-0.004	7932	0.50000	0.495
8 Anthracene	2.107	2.110	-0.003	2943	0.50000	0.520
9 Fluoranthene	2.337	2.347	-0.010	2564	0.50000	0.465
10 Pyrene	2.510	2.553	-0.043	16509	0.50000	0.481
11 p-Terphenyl	2.953	2.980	-0.027	4218	0.50000	0.462
12 Benzo(a)Anthracene	3.133	3.213	-0.080	13630	0.50000	0.490
13 Chrysene	3.283	3.377	-0.094	1192	0.50000	0.297
14 Benzo(b)Fluoranthene	3.763	3.823	-0.060	11533	0.50000	0.488
15 Benzo(k)Fluoranthene	4.000	4.087	-0.087	26171	0.50000	0.502
16 Benzo(a)Pyrene	4.177	4.257	-0.080	21680	0.50000	0.492

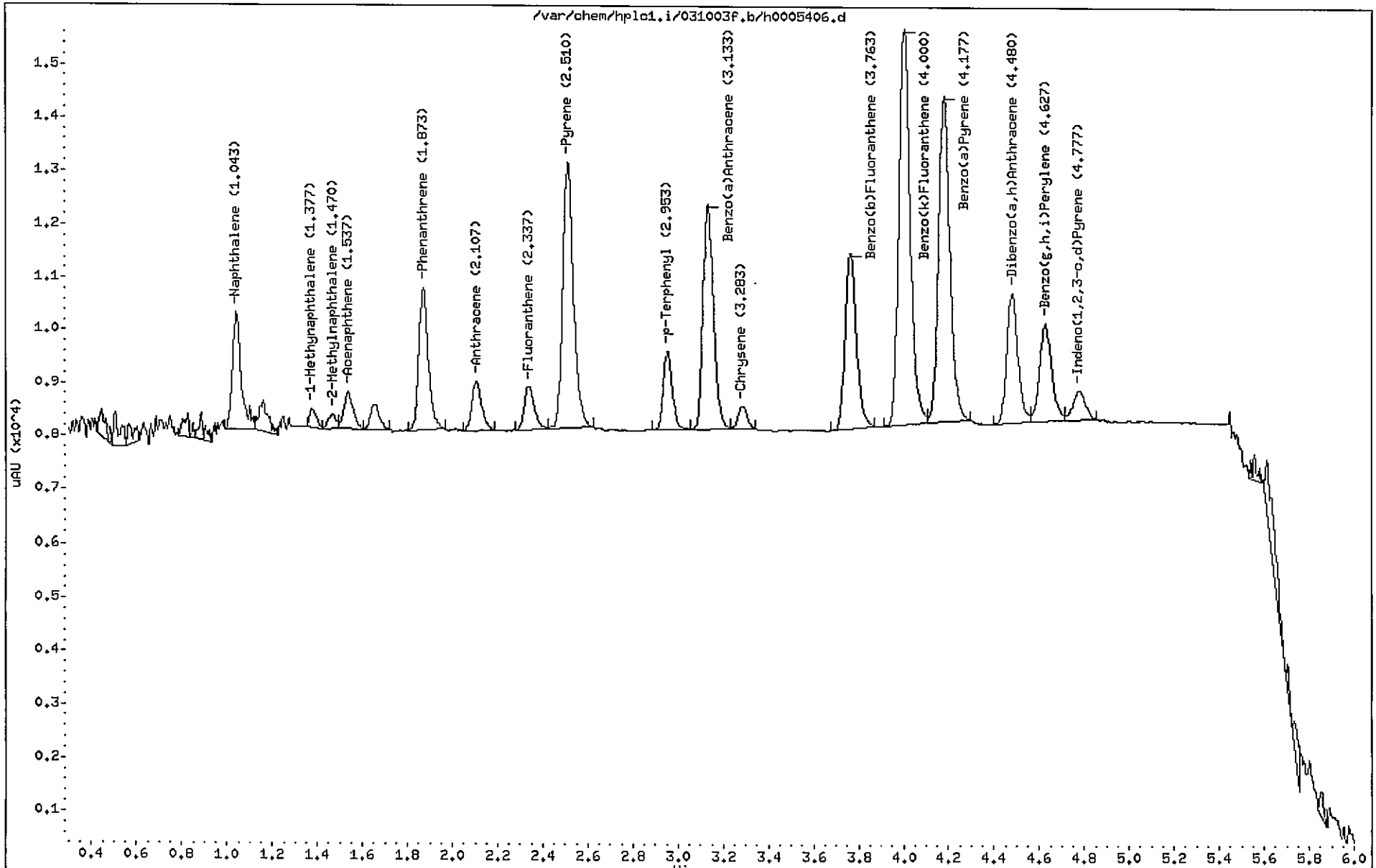
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.480	4.630	-0.150	8509	0.50000	0.488
18 Benzo(g,h,i)Perylene	4.627	4.787	-0.160	7003	0.50000	0.465
19 Indeno(1,2,3-c,d)Pyrene	4.777	4.980	-0.203	2065	0.50000	0.439

Data File: /var/chem/hplc1.i/031003f.b/h0005406.d
Date : 03-OCT-2003 08:24
Client ID: 1003STD03
Sample Info: 1003STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000568



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005405.d
Lab Smp Id: 1003STD04 Client Smp ID: 1003STD04
Inj Date : 03-OCT-2003 08:17
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:17 Cal File: h0005405.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	1.043	1.040	0.003	12276	1.00000	1.09
3 1-Methynaphthalene	1.383	1.393	-0.010	1485	1.00000	1.07(M)
4 2-Methylnaphthalene	1.467	1.480	-0.013	1368	1.00000	1.02(M)
5 Acenaphthene	1.543	1.550	-0.007	3957	1.00000	0.988(M)
7 Phenanthrene	1.880	1.877	0.003	15680	1.00000	0.979
8 Anthracene	2.120	2.110	0.010	5492	1.00000	0.971
9 Fluoranthene	2.357	2.347	0.010	5170	1.00000	0.937
10 Pyrene	2.530	2.553	-0.023	33063	1.00000	0.964
11 p-Terphenyl	2.990	2.980	0.010	9016	1.00000	0.987
12 Benzo(a)Anthracene	3.173	3.213	-0.040	28397	1.00000	1.02
13 Chrysene	3.333	3.377	-0.044	3075	1.00000	0.766
14 Benzo(b)Fluoranthene	3.830	3.823	0.007	23116	1.00000	0.979
15 Benzo(k)Fluoranthene	4.080	4.087	-0.007	52928	1.00000	1.01
16 Benzo(a)Pyrene	4.257	4.257	0.000	44085	1.00000	1.000

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.570	4.630	-0.060	17188	1.00000	0.985
18 Benzo(g,h,i)Perylene	4.723	4.787	-0.064	14263	1.00000	0.948
19 Indeno(1,2,3-c,d)Pyrene	4.903	4.980	-0.077	4150	1.00000	0.882

QC Flag Legend

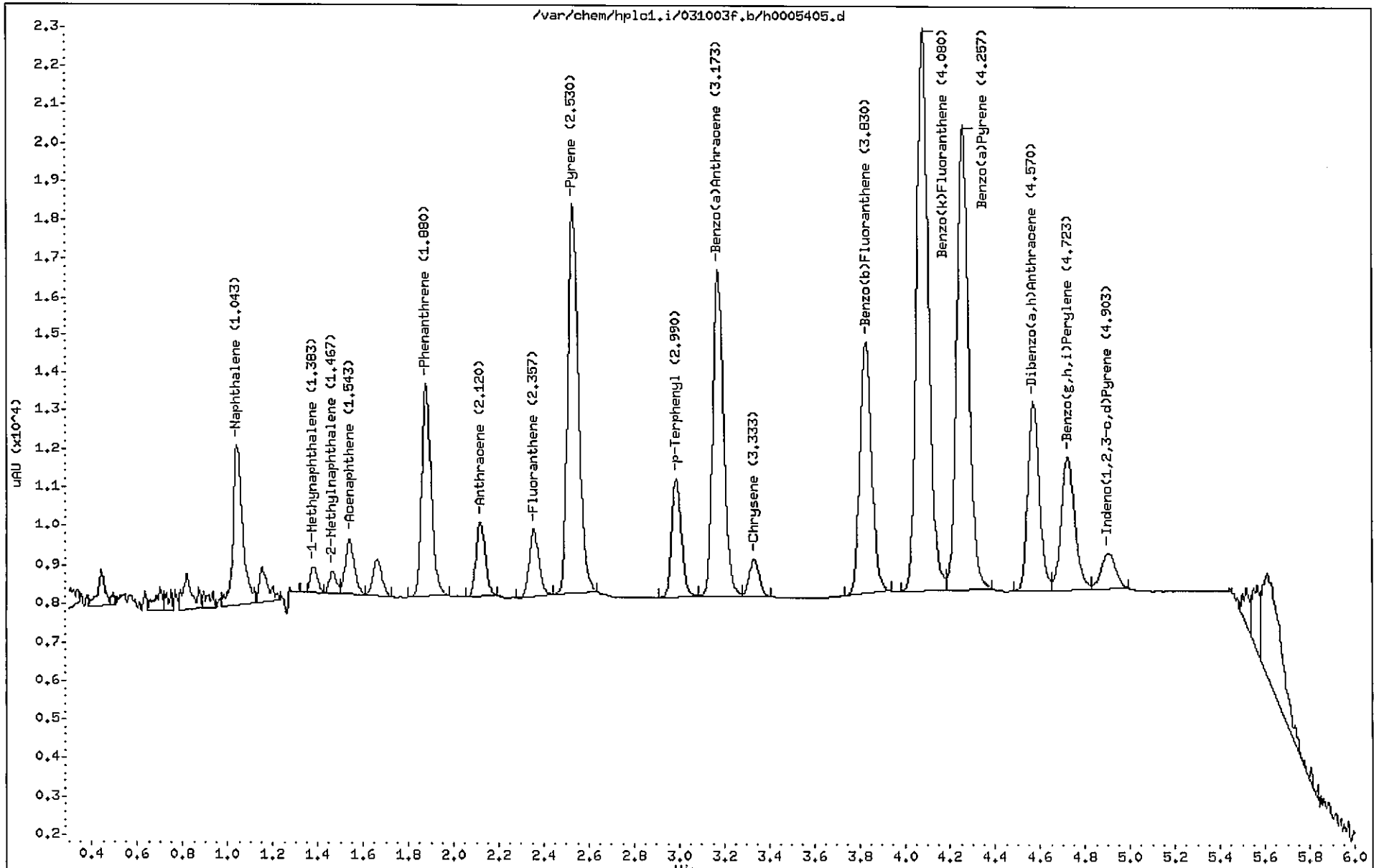
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005405.d
Date : 03-OCT-2003 08:17
Client ID: 1003STD04
Sample Info: 1003STD04
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000571



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005404.d
Lab Smp Id: 1003STD05 Client Smp ID: 1003STD05
Inj Date : 03-OCT-2003 08:10
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:10 Cal File: h0005404.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	1.037	1.040	-0.003	27449	2.50000	2.43(M)
3 1-Methynaphthalene	1.370	1.393	-0.023	2775	2.50000	2.00(M)
4 2-Methylnaphthalene	1.453	1.480	-0.027	2972	2.50000	2.22(M)
5 Acenaphthene	1.527	1.550	-0.023	9680	2.50000	2.42(M)
7 Phenanthrene	1.857	1.877	-0.020	40113	2.50000	2.50
8 Anthracene	2.087	2.110	-0.023	14076	2.50000	2.49
9 Fluoranthene	2.317	2.347	-0.030	13867	2.50000	2.51
10 Pyrene	2.490	2.553	-0.063	87857	2.50000	2.56
11 p-Terphenyl	2.930	2.980	-0.050	23770	2.50000	2.60
12 Benzo(a)Anthracene	3.103	3.213	-0.110	72532	2.50000	2.61
13 Chrysene	3.253	3.377	-0.124	9099	2.50000	2.27
14 Benzo(b)Fluoranthene	3.727	3.823	-0.096	58833	2.50000	2.49
15 Benzo(k)Fluoranthene	3.960	4.087	-0.127	133766	2.50000	2.56
16 Benzo(a)Pyrene	4.137	4.257	-0.120	113282	2.50000	2.57

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.437	4.630	-0.193	42660	2.50000	2.45
18 Benzo(g,h,i)Perylene	4.583	4.787	-0.204	36342	2.50000	2.41
19 Indeno(1,2,3-c,d)Pyrene	4.723	4.980	-0.257	11882	2.50000	2.53

QC Flag Legend

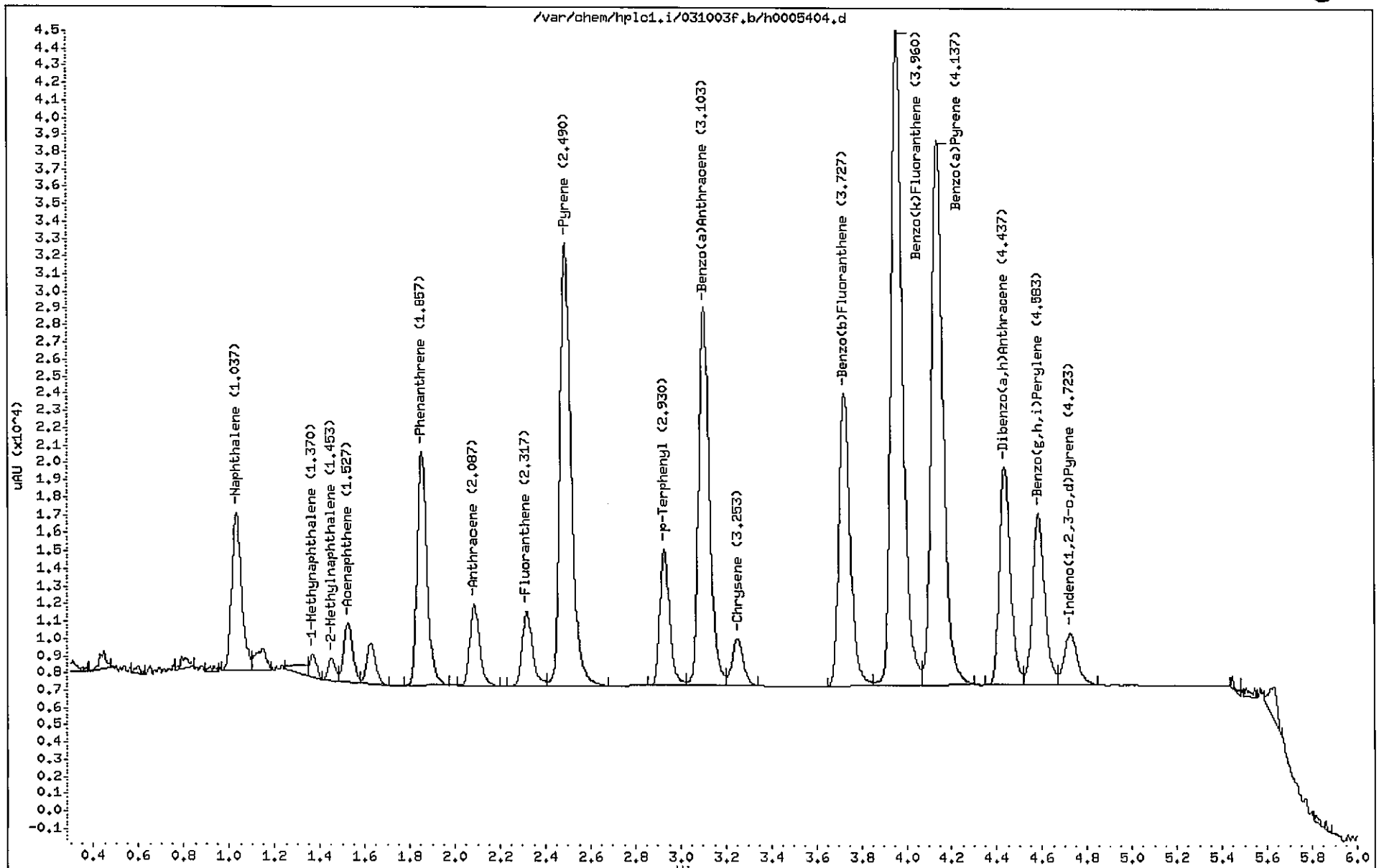
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005404.d
Date : 03-OCT-2003 08:10
Client ID: 1003STD05
Sample Info: 1003STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000574



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005403.d
Lab Smp Id: 1003STD06 Client Smp ID: 1003STD06
Inj Date : 03-OCT-2003 08:03
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 08:03 Cal File: h0005403.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	1.037	1.040	-0.003	53624	5.00000	4.75(M)
3 1-Methynaphthalene	1.377	1.393	-0.016	6542	5.00000	4.72(M)
4 2-Methylnaphthalene	1.460	1.480	-0.020	6503	5.00000	4.86(M)
5 Acenaphthene	1.530	1.550	-0.020	20112	5.00000	5.02(M)
7 Phenanthrene	1.863	1.877	-0.014	81354	5.00000	5.08
8 Anthracene	2.097	2.110	-0.013	28047	5.00000	4.96
9 Fluoranthene	2.330	2.347	-0.017	28070	5.00000	5.09
10 Pyrene	2.500	2.553	-0.053	179665	5.00000	5.24
11 p-Terphenyl	2.943	2.980	-0.037	48824	5.00000	5.34
12 Benzo(a)Anthracene	3.120	3.213	-0.093	147441	5.00000	5.30
13 Chrysene	3.273	3.377	-0.104	19441	5.00000	4.85
14 Benzo(b)Fluoranthene	3.747	3.823	-0.076	120617	5.00000	5.11
15 Benzo(k)Fluoranthene	3.983	4.087	-0.104	271007	5.00000	5.20
16 Benzo(a)Pyrene	4.163	4.257	-0.094	231486	5.00000	5.25

ompounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.460	4.630	-0.170	86907	5.00000	4.98
18 Benzo(g,h,i)Perylene	4.610	4.787	-0.177	74977	5.00000	4.98
19 Indeno(1,2,3-c,d)Pyrene	4.757	4.980	-0.223	24995	5.00000	5.31

QC Flag Legend

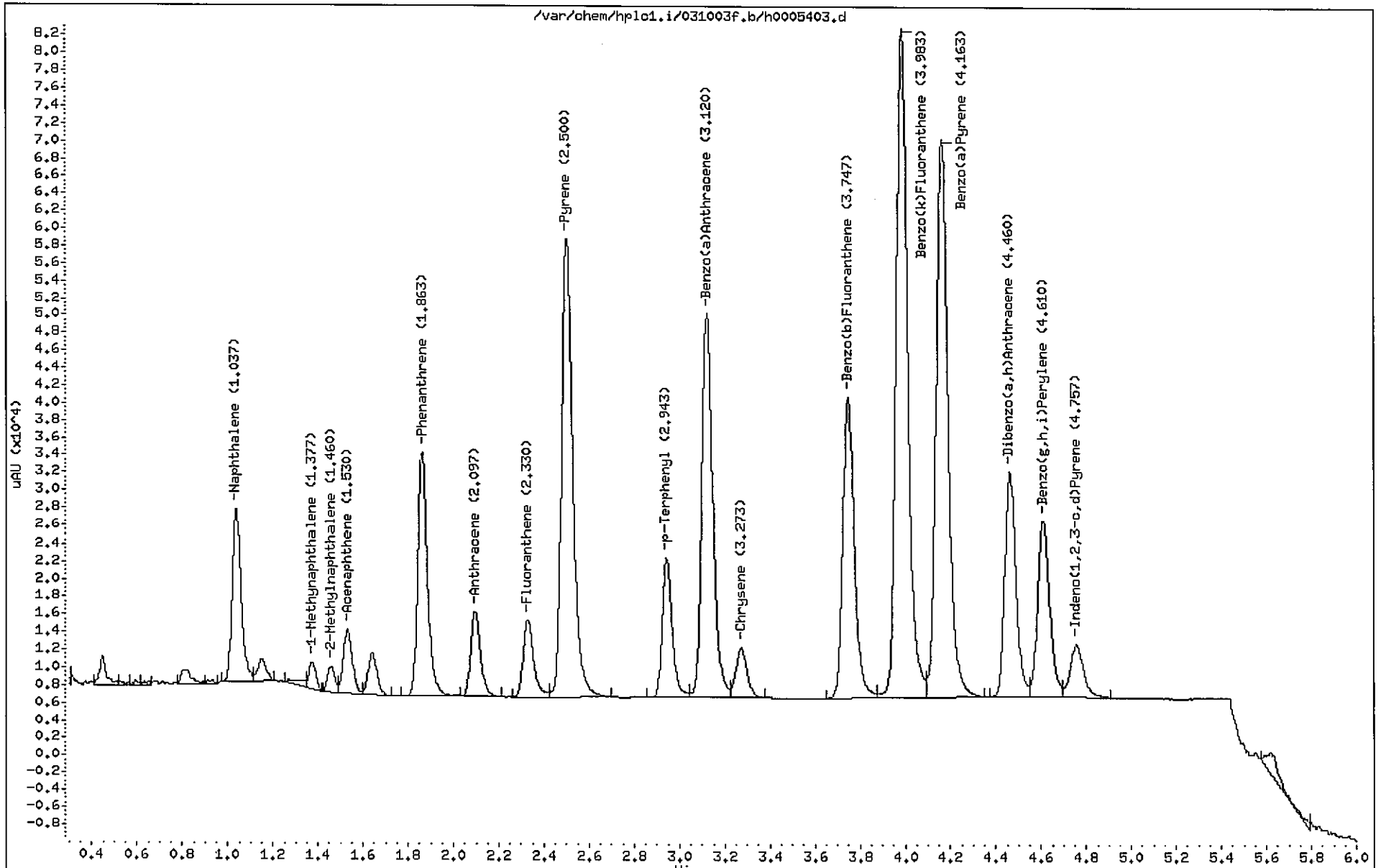
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005403.d
Date : 03-OCT-2003 08:03
Client ID: 1003STD06
Sample Info: 1003STD06
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000547



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005402.d
Lab Smp Id: 1003STD07 Client Smp ID: 1003STD07
Inj Date : 03-OCT-2003 07:56
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:56 Cal File: h0005402.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	1.047	1.040	0.007	106745	10.0000	9.46(M)
3 1-Methynaphthalene	1.387	1.393	-0.006	17591	10.0000	12.7(M)
4 2-Methylnaphthalene	1.473	1.480	-0.007	15767	10.0000	11.8(M)
5 Acenaphthene	1.547	1.550	-0.003	41929	10.0000	10.5(M)
7 Phenanthrene	1.890	1.877	0.013	167682	10.0000	10.5
8 Anthracene	2.133	2.110	0.023	57581	10.0000	10.2
9 Fluoranthene	2.370	2.347	0.023	56304	10.0000	10.2
10 Pyrene	2.553	2.553	0.000	349260	10.0000	10.2
11 p-Terphenyl	3.000	2.980	0.020	97032	10.0000	10.6
12 Benzo(a)Anthracene	3.183	3.213	-0.030	290917	10.0000	10.5
13 Chrysene	3.340	3.377	-0.037	39670	10.0000	9.89
14 Benzo(b)Fluoranthene	3.823	3.823	0.000	242958	10.0000	10.3
15 Benzo(k)Fluoranthene	4.087	4.087	0.000	437986	10.0000	8.40
16 Benzo(a)Pyrene	4.257	4.257	0.000	417673	10.0000	9.47

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.540	4.630	-0.090	175851	10.0000	10.1
18 Benzo(g,h,i)Perylene	4.690	4.787	-0.097	153766	10.0000	10.2
19 Indeno(1,2,3-c,d)Pyrene	4.853	4.980	-0.127	49173	10.0000	10.5

QC Flag Legend

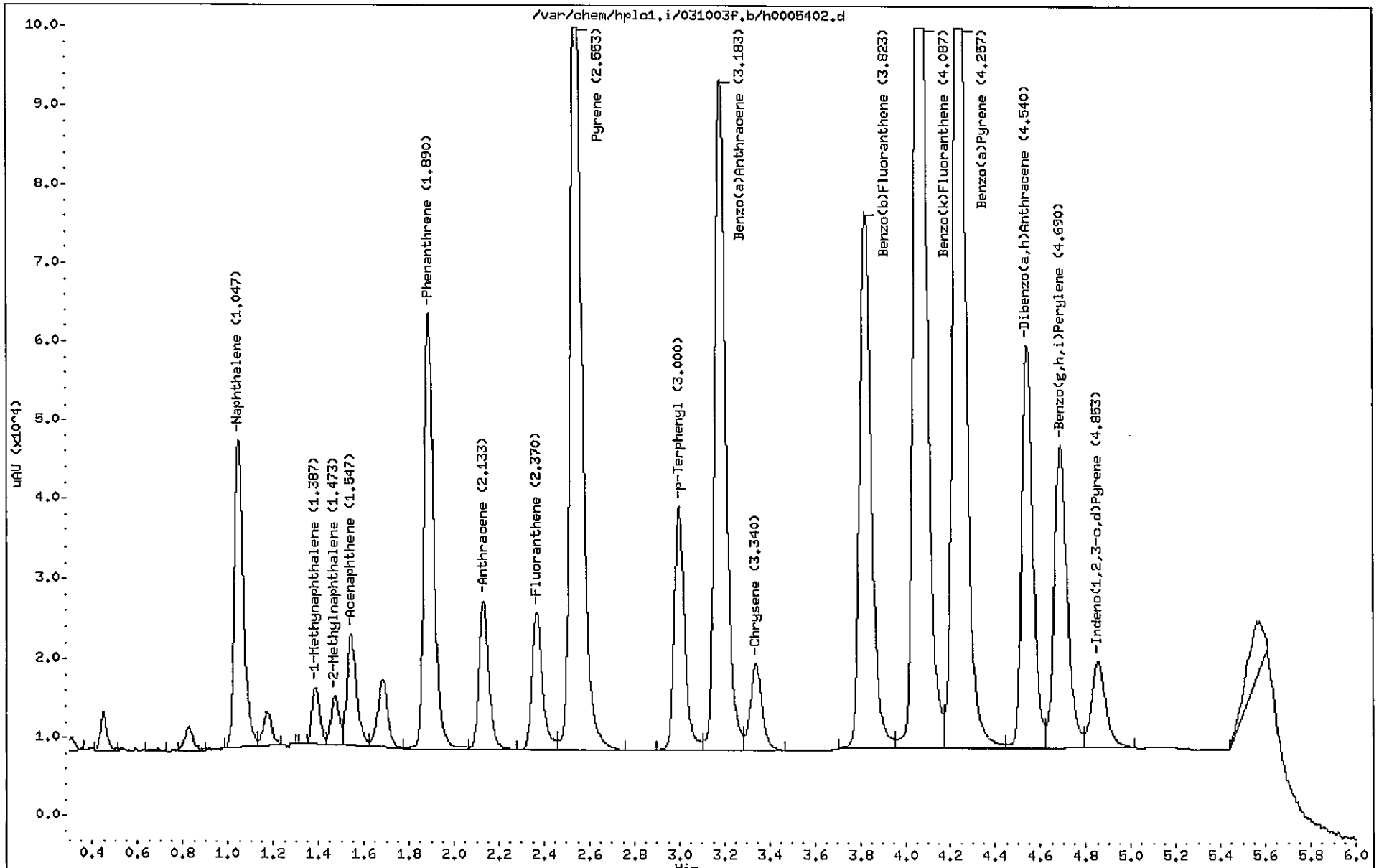
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005402.d
Date : 03-OCT-2003 07:56
Client ID: 1003STD07
Sample Info: 1003STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000580



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005401.d
Lab Smp Id: 1003STD08 Client Smp ID: 1003STD08
Inj Date : 03-OCT-2003 07:49
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.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	1.040	1.040	0.000	215809	20.0000	19.1(M)
3 1-Methynaphthalene	1.377	1.393	-0.016	25492	20.0000	18.4(M)
4 2-Methylnaphthalene	1.463	1.480	-0.017	25215	20.0000	18.8(M)
5 Acenaphthene	1.537	1.550	-0.013	79730	20.0000	19.9(M)
7 Phenanthrene	1.877	1.877	0.000	317264	20.0000	19.8
8 Anthracene	2.110	2.110	0.000	105676	20.0000	18.7
9 Fluoranthene	2.347	2.347	0.000	110127	20.0000	20.0
11 p-Terphenyl	2.980	2.980	0.000	193992	20.0000	21.2
13 Chrysene	3.320	3.377	-0.057	80765	20.0000	20.1
17 Dibenzo(a,h)Anthracene	4.550	4.630	-0.080	341327	20.0000	19.6
18 Benzo(g,h,i)Perylene	4.700	4.787	-0.087	310328	20.0000	20.6
19 Indeno(1,2,3-c,d)Pyrene	4.877	4.980	-0.103	96189	20.0000	20.4

QC Flag Legend

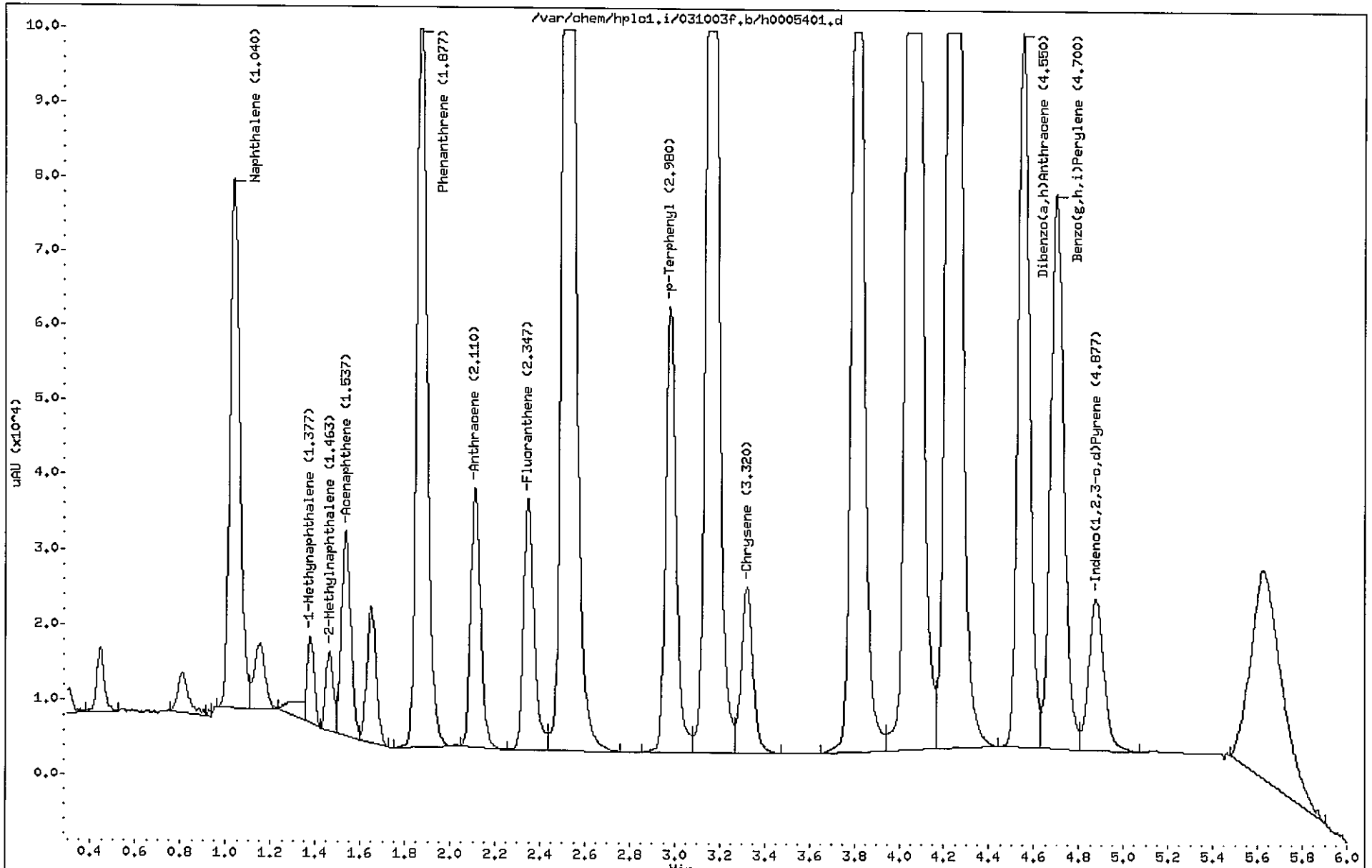
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005401.d
Date : 03-OCT-2003 07:49
Client ID: 1003STD08
Sample Info: 1003STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000583



Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1003PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/031003f.b/flpnafld.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 1003PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	4.71	94.13	80-120
3 1-Methynaphthalene	10.0	9.77	97.70	80-120
4 2-Methylnaphthalen	10.0	9.28	92.83	80-120
5 Acenaphthene	10.0	9.97	99.69	80-120
7 Phenanthrene	0.400	0.423	105.77	80-120
8 Anthracene	0.200	0.203	101.75	80-120
9 Fluoranthene	0.500	0.464	92.73	80-120
10 Pyrene	1.00	0.986	98.64	80-120
12 Benzo(a)Anthracene	0.500	0.551	110.21	80-120
13 Chrysene	0.500	0.411	82.25	80-120
14 Benzo(b)Fluoranthe	0.200	0.199	99.50	80-120
15 Benzo(k)Fluoranthe	0.200	0.214	107.23	80-120
16 Benzo(a)Pyrene	0.500	0.532	106.37	80-120
17 Dibenzo(a,h)Anthra	2.00	2.14	106.81	80-120
18 Benzo(g,h,i)Peryle	0.800	0.887	110.86	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.498	99.69	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.47	111.81	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031003f.b/h0005409.d
Lab Smp Id: 1003PNAICV Client Smp ID: 1003PNAICV
Inj Date : 03-OCT-2003 08:58
Operator : jdt Inst ID: hplc1.i
Smp Info : 1003PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/031003f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:11 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCS
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.033	1.040	-0.007	53091	4.70657	4.71(M)
3 1-Methynaphthalene	1.373	1.393	-0.020	13555	9.76993	9.77(M)
4 2-Methylnaphthalene	1.457	1.480	-0.023	12429	9.28251	9.28
5 Acenaphthene	1.530	1.550	-0.020	39936	9.96865	9.97
7 Phenanthrene	1.860	1.877	-0.017	6779	0.42309	0.423
8 Anthracene	2.093	2.110	-0.017	1151	0.20349	0.203(M)
9 Fluoranthene	2.333	2.347	-0.014	2558	0.46364	0.464
10 Pyrene	2.507	2.553	-0.046	33834	0.98635	0.986
11 p-Terphenyl	2.957	2.980	-0.023	40860	4.47244	4.47(M)
12 Benzo(a)Anthracene	3.140	3.213	-0.073	15317	0.55104	0.551(M)
13 Chrysene	3.293	3.377	-0.084	1650	0.41127	0.411(M)
14 Benzo(b)Fluoranthene	3.783	3.823	-0.040	4699	0.19899	0.199
15 Benzo(k)Fluoranthene	4.027	4.087	-0.060	11187	0.21446	0.214
16 Benzo(a)Pyrene	4.207	4.257	-0.050	23455	0.53183	0.532

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.517	4.630	-0.113	37265	2.13628	2.14(M)
18 Benzo(g,h,i)Perylene	4.670	4.787	-0.117	13349	0.88690	0.887(M)
19 Indeno(1,2,3-c,d)Pyrene	4.833	4.980	-0.147	2345	0.49847	0.498(M)

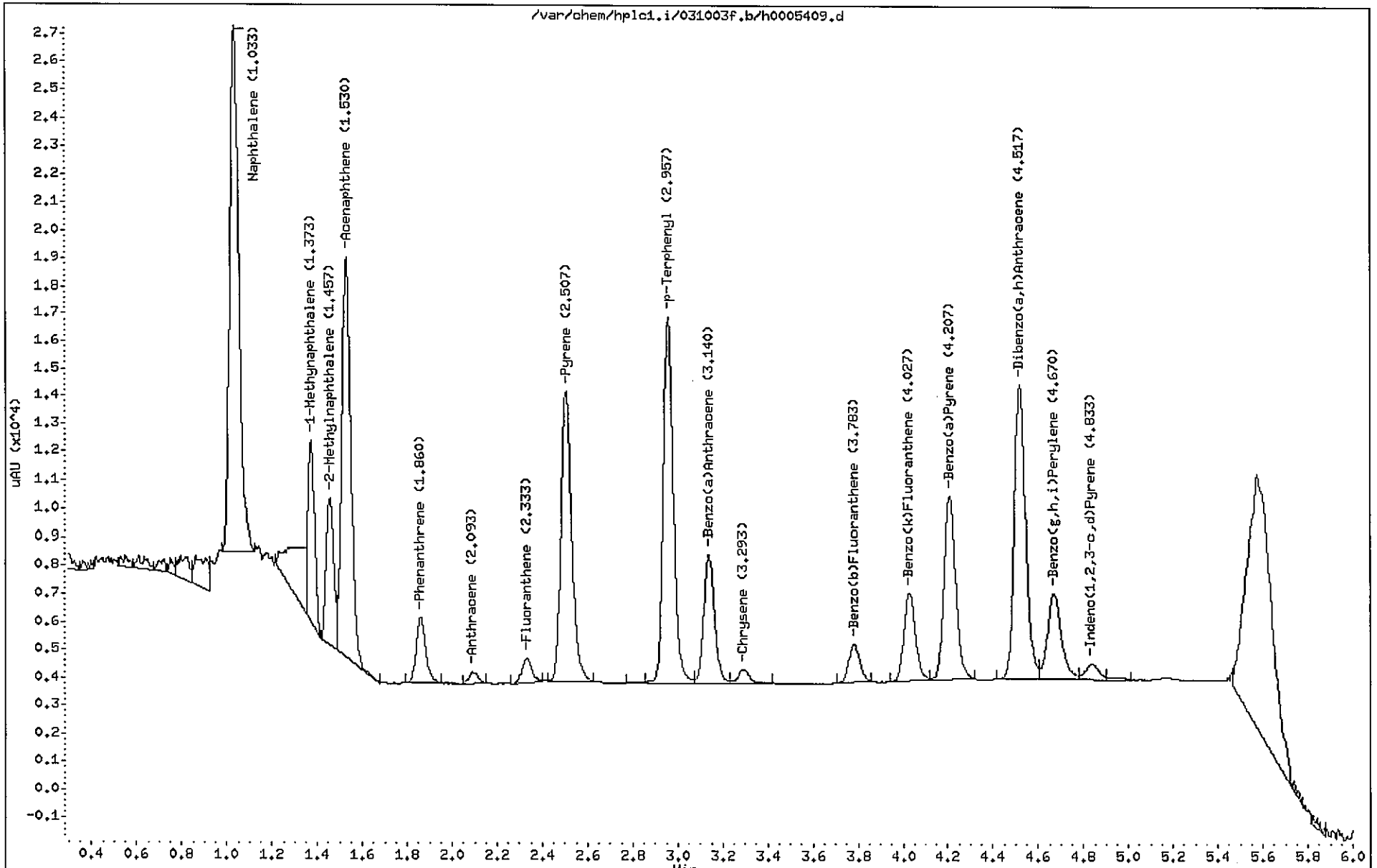
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031003f.b/h0005409.d
Date : 03-OCT-2003 08:58
Client ID: 1003PNAICV
Sample Info: 1003PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005676.d
Lab Smp Id: 1110STD05 Client Smp ID: 1110STD05
Inj Date : 10-NOV-2003 14:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 1110STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 Continuing Calibration Sample
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	1.043	1.043	0.000	25951	2.50000	2.30
3 1-Methynaphthalene	1.383	1.383	0.000	3684	2.50000	2.66
4 2-Methylnaphthalene	1.470	1.470	0.000	3243	2.50000	2.42
5 Acenaphthene	1.540	1.543	-0.003	9394	2.50000	2.35
7 Phenanthrene	1.890	1.890	0.000	40393	2.50000	2.52
8 Anthracene	2.140	2.137	0.003	14231	2.50000	2.52
9 Fluoranthene	2.383	2.380	0.003	14643	2.50000	2.65
10 Pyrene	2.560	2.557	0.003	86656	2.50000	2.53
11 p-Terphenyl	3.033	3.027	0.006	23501	2.50000	2.57
12 Benzo(a)Anthracene	3.220	3.213	0.007	75381	2.50000	2.71
13 Chrysene	3.390	3.383	0.007	8984	2.50000	2.24
14 Benzo(b)Fluoranthene	3.887	3.883	0.004	59603	2.50000	2.52
15 Benzo(k)Fluoranthene	4.140	4.143	-0.003	133829	2.50000	2.57
16 Benzo(a)Pyrene	4.310	4.317	-0.007	114174	2.50000	2.59

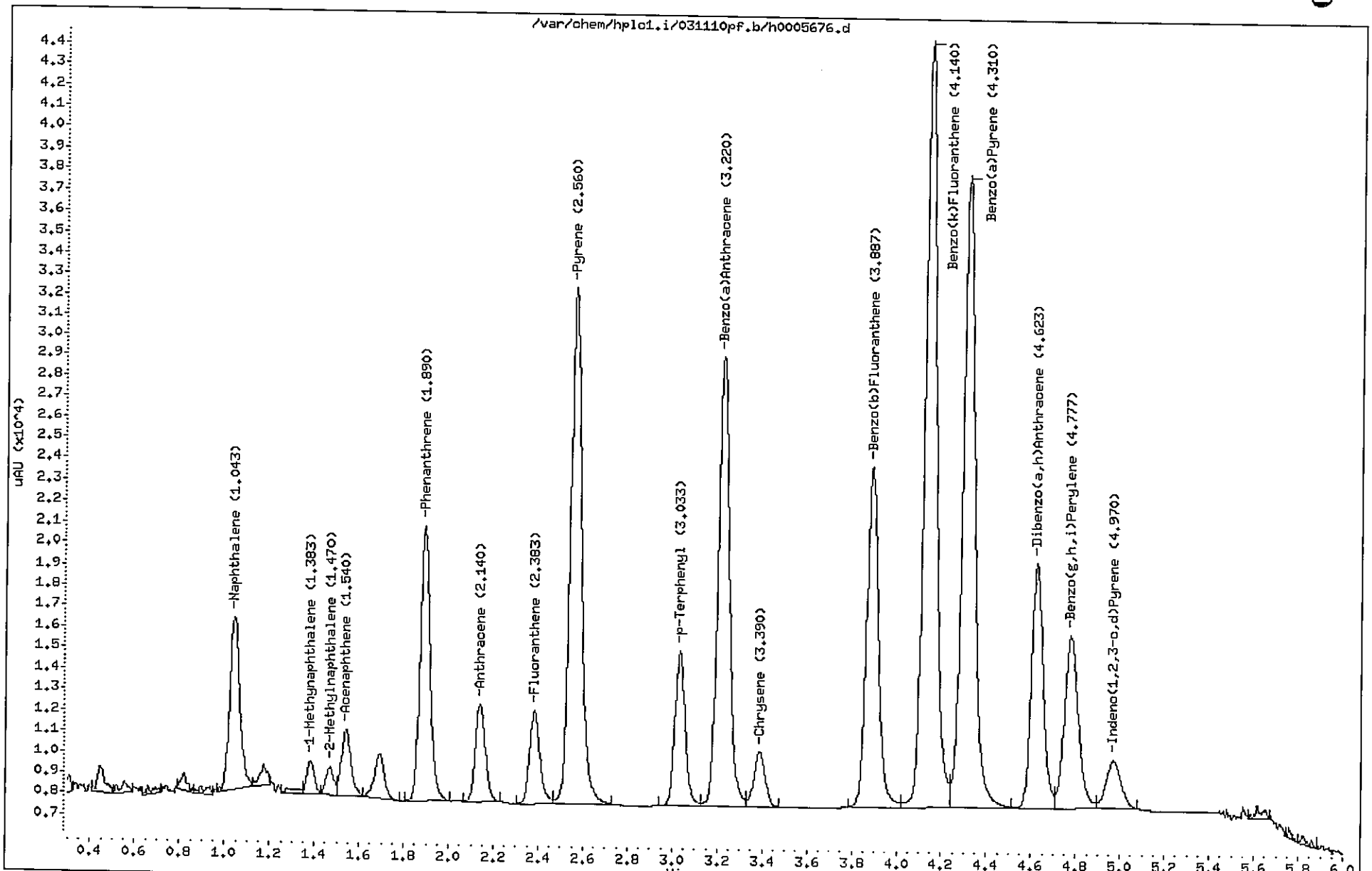
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.623	4.630	-0.007	42665	2.50000	2.45
18 Benzo(g,h,i)Perylene	4.777	4.787	-0.010	35838	2.50000	2.38
19 Indeno(1,2,3-c,d)Pyrene	4.970	4.983	-0.013	10636	2.50000	2.26

Data File: /var/chem/hplc1.i/031110pf.b/h0005676.d
Date : 10-NOV-2003 14:31
Client ID: 1110STD05
Sample Info: 1110STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000590



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005683.d
Lab Smp Id: 1110STD05 Client Smp ID: 1110STD05
Inj Date : 10-NOV-2003 16:48
Operator : jdt Inst ID: hplc1.i
Smp Info : 1110STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 Continuing Calibration Sample
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	1.043	1.043	0.000	27930	2.50000	2.48(M)
3 1-Methynaphthalene	1.383	1.383	0.000	3271	2.50000	2.36(M)
4 2-Methylnaphthalene	1.470	1.470	0.000	3031	2.50000	2.26(M)
5 Acenaphthene	1.543	1.543	0.000	9637	2.50000	2.41(M)
7 Phenanthrene	1.890	1.890	0.000	40509	2.50000	2.53
8 Anthracene	2.140	2.137	0.003	14321	2.50000	2.53
9 Fluoranthene	2.380	2.380	0.000	14413	2.50000	2.61
10 Pyrene	2.557	2.557	0.000	86129	2.50000	2.51
11 p-Terphenyl	3.027	3.027	0.000	23427	2.50000	2.56
12 Benzo(a)Anthracene	3.217	3.213	0.004	75043	2.50000	2.70
13 Chrysene	3.383	3.383	0.000	8970	2.50000	2.24
14 Benzo(b)Fluoranthene	3.883	3.883	0.000	59083	2.50000	2.50
15 Benzo(k)Fluoranthene	4.140	4.143	-0.003	133158	2.50000	2.55
16 Benzo(a)Pyrene	4.317	4.317	0.000	111317	2.50000	2.52

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.633	4.630	0.003	41798	2.50000	2.40
18 Benzo(g,h,i)Perylene	4.790	4.787	0.003	35003	2.50000	2.33
19 Indeno(1,2,3-c,d)Pyrene	4.993	4.983	0.010	10703	2.50000	2.28

QC Flag Legend

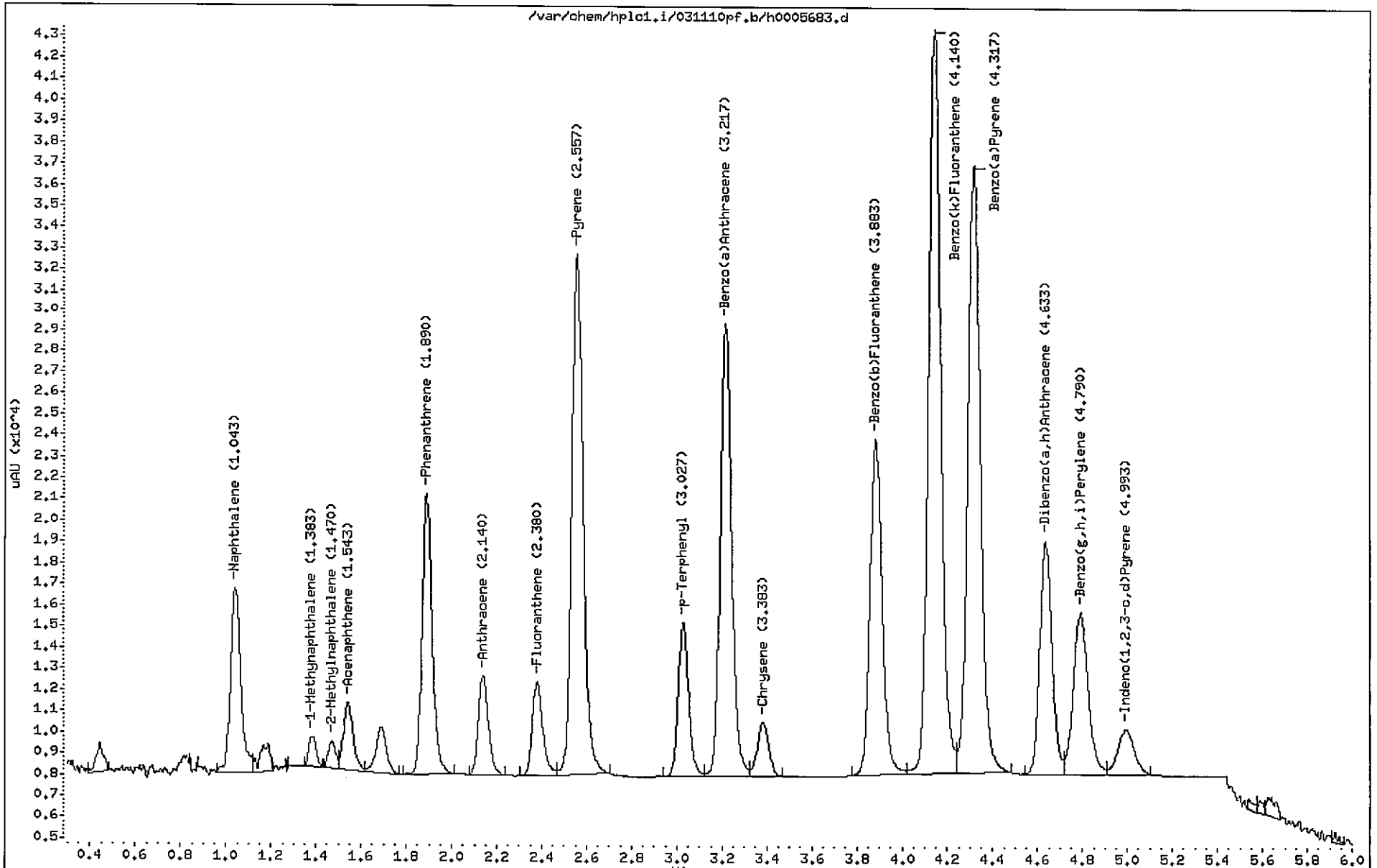
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031110pf.b/h0005683.d
Date : 10-NOV-2003 16:48
Client ID: 1110STD05
Sample Info: 1110STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000593



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005692.d
Lab Smp Id: 1112STD01 Client Smp ID: 1112STD01
Inj Date : 12-NOV-2003 10:39
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.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)
7 Phenanthrene	1.847	1.878	-0.031	2696	0.10000	0.104(M)
8 Anthracene	2.080	2.128	-0.048	6194	0.10000	0.110(M)
9 Fluoranthene	2.307	2.368	-0.061	867	0.10000	0.119(M)
10 Pyrene	2.493	2.544	-0.051	620	0.10000	0.105(M)
11 p-Terphenyl	2.940	3.018	-0.078	782	0.10000	0.112(M)
12 Benzo(a)Anthracene	3.113	3.204	-0.091	1651	0.10000	0.102(M)
13 Chrysene	3.267	3.377	-0.110	2527	0.10000	0.0965
14 Benzo(b)Fluoranthene	3.747	3.878	-0.131	2133	0.10000	0.106(M)
15 Benzo(k)Fluoranthene	3.987	4.032	-0.045	1192	0.10000	0.0965(M)
16 Benzo(a)Pyrene	4.160	4.212	-0.052	1875	0.10000	0.104(M)
17 Dibenzo(a,h)Anthracene	4.467	4.512	-0.045	432	0.10000	0.107(M)
18 Benzo(g,h,i)Perylene	4.613	4.658	-0.045	638	0.10000	0.0977(M)

QC Flag Legend

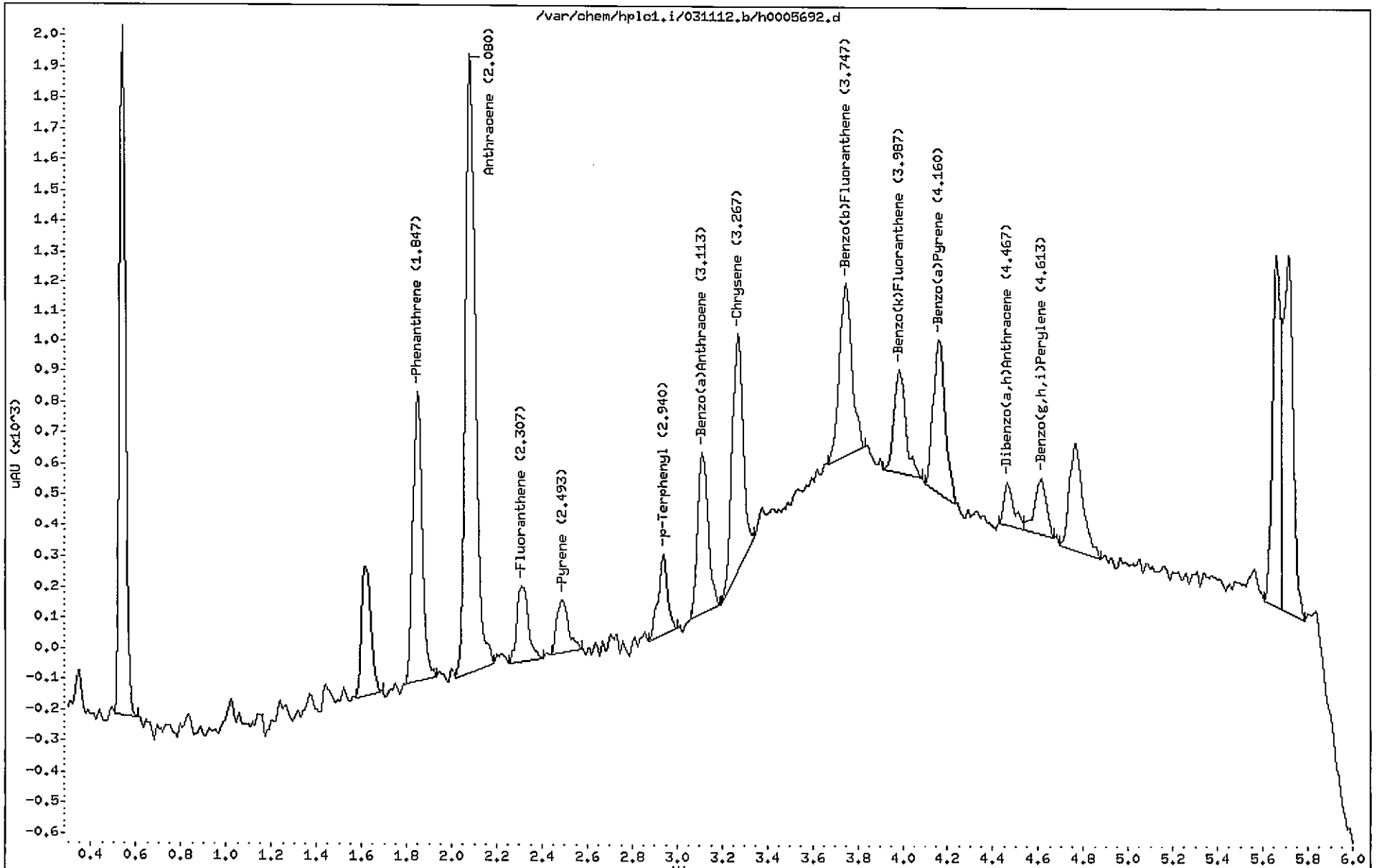
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005692.d
Date : 12-NOV-2003 10:39
Client ID: 1112STD01
Sample Info: 1112STD01
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000596



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005691.d
Lab Smp Id: 1112STD02 Client Smp ID: 1112STD02
Inj Date : 12-NOV-2003 10:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:32 Cal File: h0005691.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	1.028	1.031	-0.003	717	0.25000	0.293
7 Phenanthrene	1.861	1.878	-0.017	6248	0.25000	0.241
8 Anthracene	2.094	2.128	-0.034	14342	0.25000	0.255
9 Fluoranthene	2.334	2.368	-0.034	1762	0.25000	0.241
10 Pyrene	2.507	2.544	-0.037	1343	0.25000	0.227
11 p-Terphenyl	2.961	3.018	-0.057	1767	0.25000	0.252
12 Benzo(a)Anthracene	3.141	3.204	-0.063	3886	0.25000	0.240
13 Chrysene	3.294	3.377	-0.083	5984	0.25000	0.229
14 Benzo(b)Fluoranthene	3.781	3.878	-0.097	4997	0.25000	0.248(M)
15 Benzo(k)Fluoranthene	4.021	4.032	-0.011	2954	0.25000	0.239
16 Benzo(a)Pyrene	4.201	4.212	-0.011	4099	0.25000	0.227
17 Dibenzo(a,h)Anthracene	4.508	4.512	-0.004	1118	0.25000	0.278
18 Benzo(g,h,i)Perylene	4.648	4.658	-0.010	1522	0.25000	0.233
19 Indeno(1,2,3-c,d)Pyrene	4.814	4.825	-0.011	3427	0.25000	0.235

QC Flag Legend

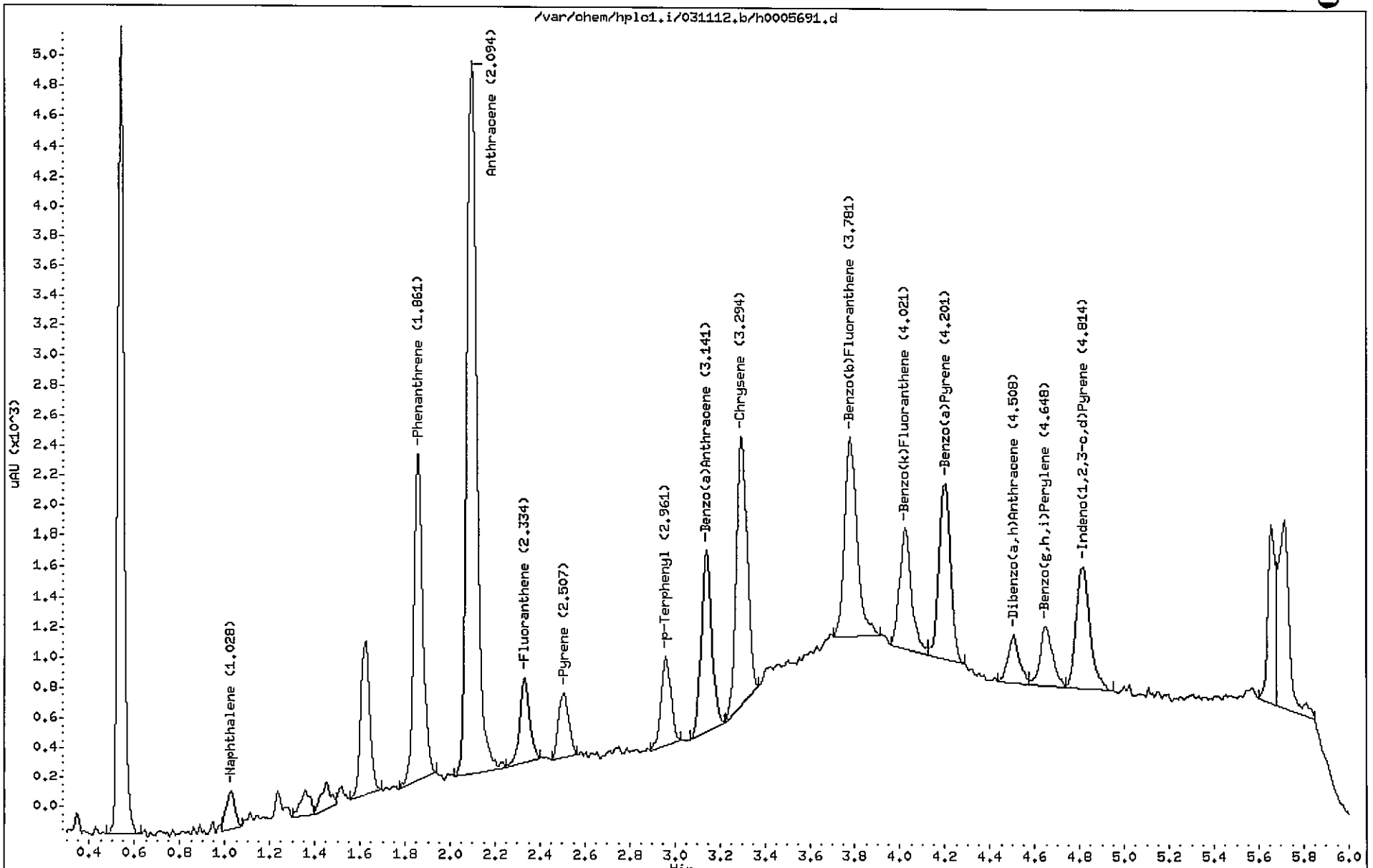
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005691.d
Date : 12-NOV-2003 10:32
Client ID: 1112STD02
Sample Info: 1112STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000599



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005690.d
Lab Smp Id: 1112STD03 Client Smp ID: 1112STD03
Inj Date : 12-NOV-2003 10:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:25 Cal File: h0005690.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	1.032	1.031	0.001	1051	0.50000	0.430
6 Fluorene	1.638	1.635	0.003	5529	0.50000	0.488
7 Phenanthrene	1.878	1.878	0.000	12820	0.50000	0.495
8 Anthracene	2.125	2.128	-0.003	28542	0.50000	0.508
9 Fluoranthene	2.365	2.368	-0.003	3738	0.50000	0.512
10 Pyrene	2.538	2.544	-0.006	3251	0.50000	0.550
11 p-Terphenyl	3.012	3.018	-0.006	3441	0.50000	0.492
12 Benzo(a)Anthracene	3.198	3.204	-0.006	8120	0.50000	0.501
13 Chrysene	3.365	3.377	-0.012	13789	0.50000	0.527
14 Benzo(b)Fluoranthene	3.865	3.878	-0.013	10286	0.50000	0.510(M)
15 Benzo(k)Fluoranthene	4.118	4.032	0.086	6067	0.50000	0.491(M)
16 Benzo(a)Pyrene	4.292	4.212	0.080	8530	0.50000	0.473(M)
17 Dibenzo(a,h)Anthracene	4.598	4.512	0.086	1754	0.50000	0.436
18 Benzo(g,h,i)Perylene	4.758	4.658	0.100	3176	0.50000	0.486

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	4.952	4.825	0.127	6999	0.50000	0.480

QC Flag Legend

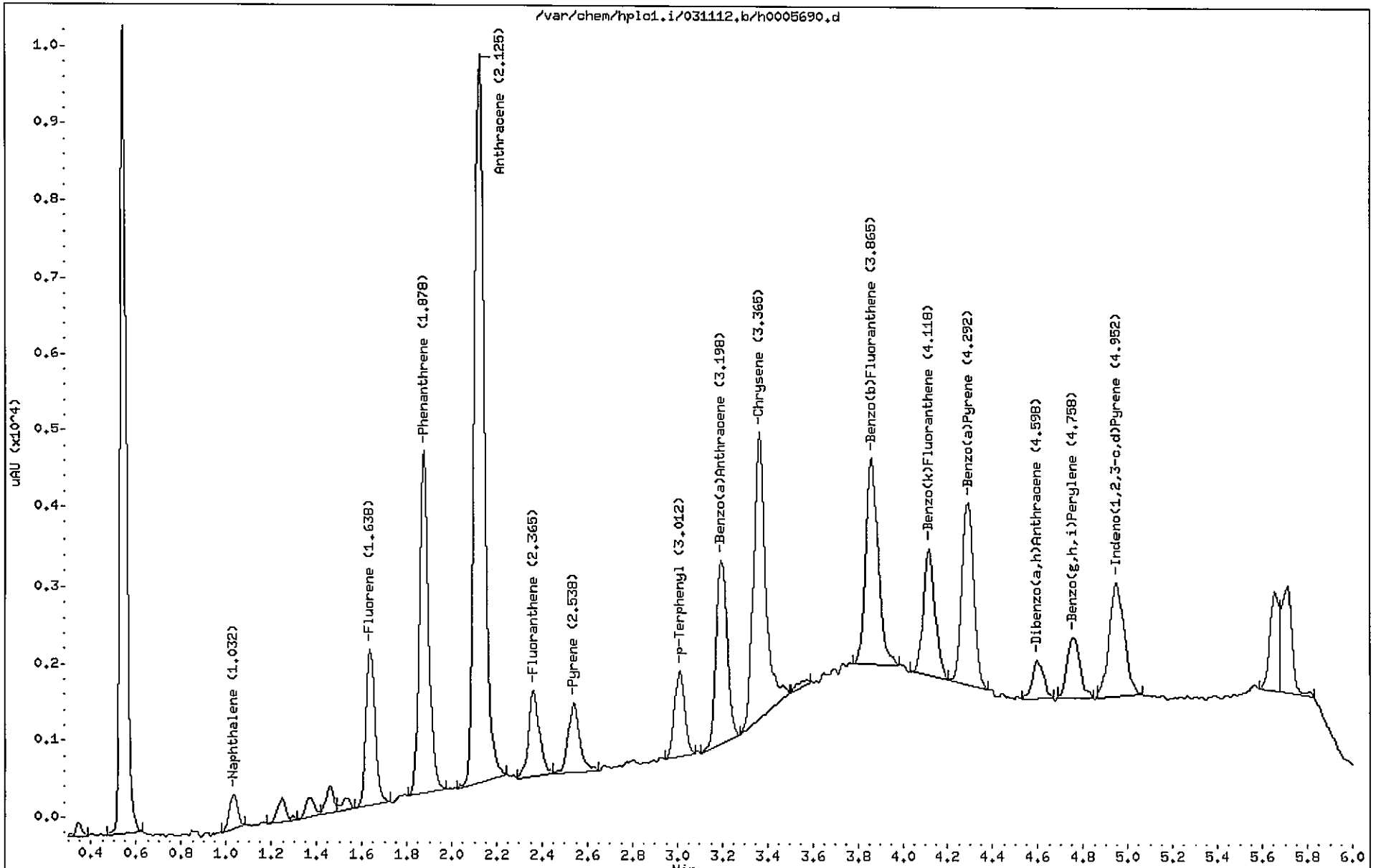
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005690.d
Date : 12-NOV-2003 10:25
Client ID: 1112STD03
Sample Info: 1112STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000602



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005689.d
Lab Smp Id: 1112STD04 Client Smp ID: 1112STD04
Inj Date : 12-NOV-2003 10:18
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:18 Cal File: h0005689.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	1.026	1.031	-0.005	2085	1.00000	0.853
2 Acenaphthylene	1.239	1.244	-0.005	1584	1.00000	0.960
3 1-Methynaphthalene	1.366	1.368	-0.002	1261	1.00000	0.925
4 2-Methylnaphthalene	1.452	1.455	-0.003	1779	1.00000	0.912
5 Acenaphthene	1.526	1.522	0.004	806	1.00000	0.862
6 Fluorene	1.626	1.635	-0.009	11219	1.00000	0.990
7 Phenanthrene	1.859	1.878	-0.019	25888	1.00000	1.000
8 Anthracene	2.106	2.128	-0.022	56779	1.00000	1.01
9 Fluoranthene	2.339	2.368	-0.029	7146	1.00000	0.978
10 Pyrene	2.513	2.544	-0.031	5693	1.00000	0.962
11 p-Terphenyl	2.979	3.018	-0.039	6576	1.00000	0.940
12 Benzo(a)Anthracene	3.166	3.204	-0.038	15778	1.00000	0.973
13 Chrysene	3.326	3.377	-0.051	25376	1.00000	0.969
14 Benzo(b)Fluoranthene	3.819	3.878	-0.059	19542	1.00000	0.968(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.072	4.032	0.040	12231	1.00000	0.990(M)
16 Benzo(a)Pyrene	4.253	4.212	0.041	17874	1.00000	0.991(M)
17 Dibenzo(a,h)Anthracene	4.566	4.512	0.054	3949	1.00000	0.982
18 Benzo(g,h,i)Perylene	4.719	4.658	0.061	6201	1.00000	0.950
19 Indeno(1,2,3-c,d)Pyrene	4.899	4.825	0.074	14350	1.00000	0.983

QC Flag Legend

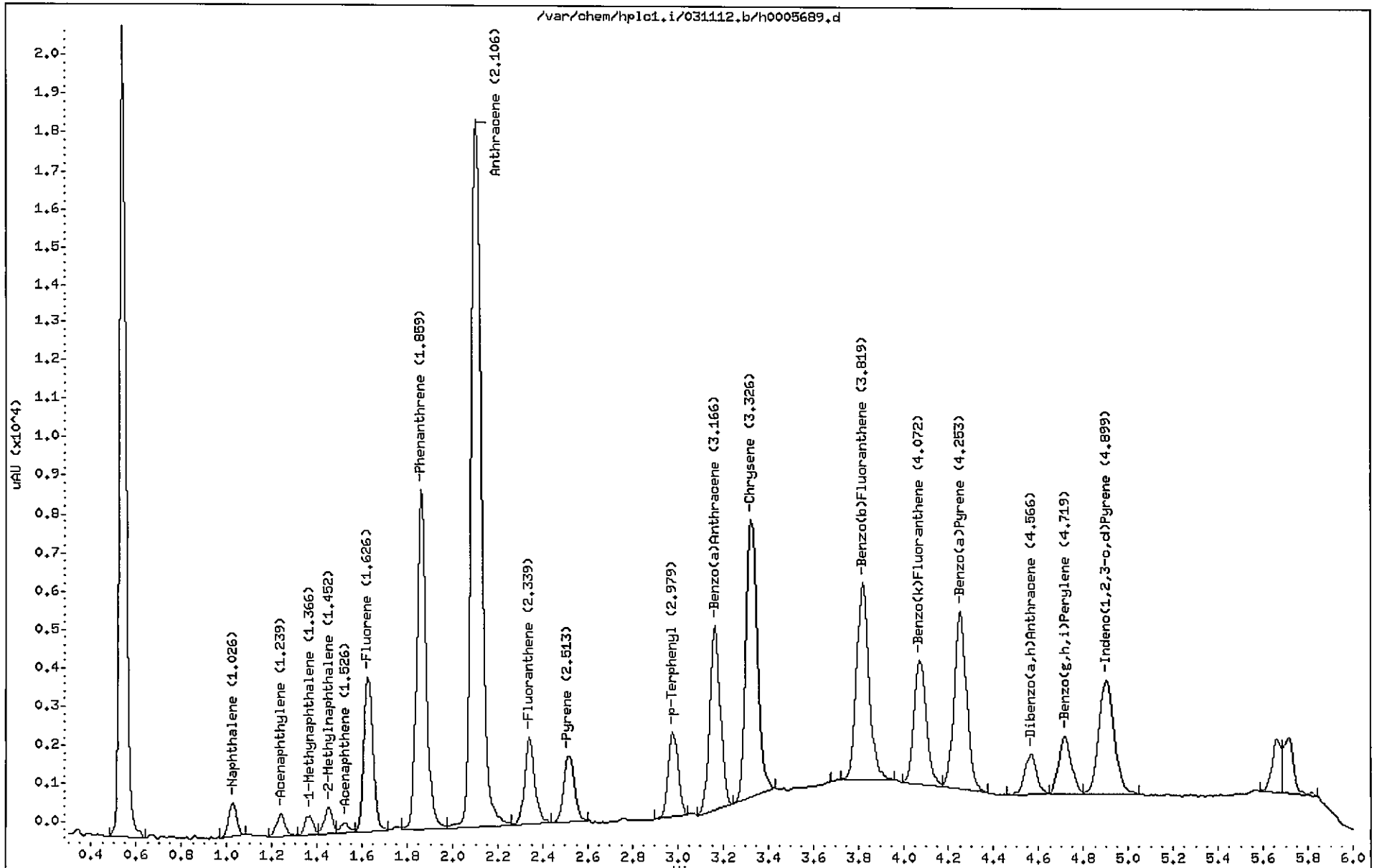
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005689.d
Date : 12-NOV-2003 10:18
Client ID: 1112STD04
Sample Info: 1112STD04
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000605



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005688.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 10:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:11 Cal File: h0005688.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	1.014	1.031	-0.017	6226	2.50000	2.55
2 Acenaphthylene	1.228	1.244	-0.016	3881	2.50000	2.35
3 1-Methynaphthalene	1.354	1.368	-0.014	3270	2.50000	2.40
4 2-Methylnaphthalene	1.434	1.455	-0.021	4936	2.50000	2.53
5 Acenaphthene	1.508	1.522	-0.014	2198	2.50000	2.35
6 Fluorene	1.607	1.635	-0.028	28202	2.50000	2.49
7 Phenanthrene	1.841	1.878	-0.037	64578	2.50000	2.49
8 Anthracene	2.074	2.128	-0.054	138786	2.50000	2.47
9 Fluoranthene	2.308	2.368	-0.060	16651	2.50000	2.28
10 Pyrene	2.481	2.544	-0.063	14324	2.50000	2.42
11 p-Terphenyl	2.934	3.018	-0.084	16922	2.50000	2.42
12 Benzo(a)Anthracene	3.107	3.204	-0.097	40065	2.50000	2.47
13 Chrysene	3.261	3.377	-0.116	66133	2.50000	2.53
14 Benzo(b)Fluoranthene	3.741	3.878	-0.137	49922	2.50000	2.47

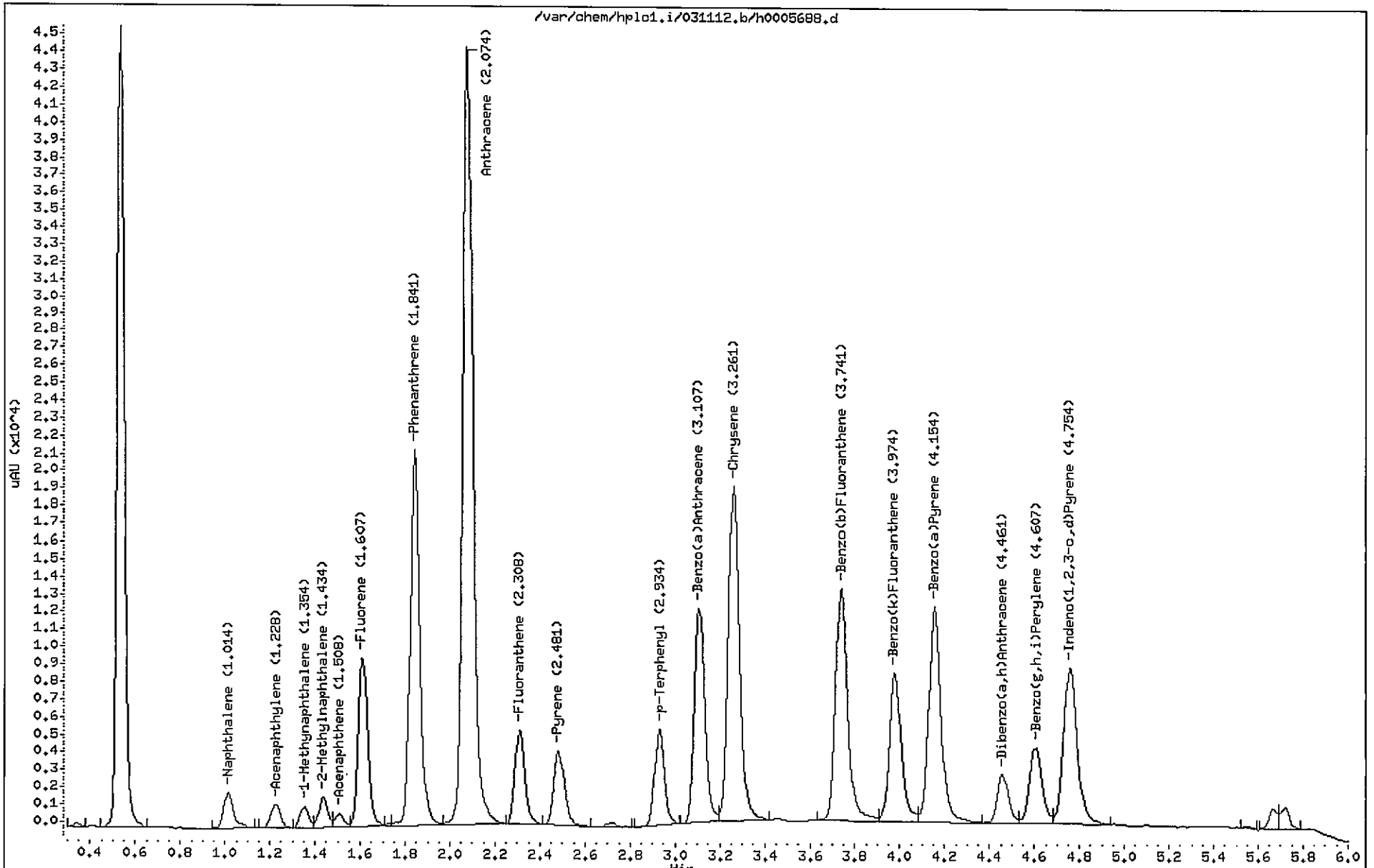
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	3.974	4.032	-0.058	31697	2.50000	2.57
16 Benzo(a)Pyrene	4.154	4.212	-0.058	46467	2.50000	2.58
17 Dibenzo(a,h)Anthracene	4.461	4.512	-0.051	9908	2.50000	2.46
18 Benzo(g,h,i)Perylene	4.607	4.658	-0.051	16908	2.50000	2.59
19 Indeno(1,2,3-c,d)Pyrene	4.754	4.825	-0.071	37710	2.50000	2.58

Data File: /var/chem/hplc1.i/031112.b/h0005688.d
Date : 12-NOV-2003 10:11
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000608



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005687.d
Lab Smp Id: 1112STD06 Client Smp ID: 1112STD06
Inj Date : 12-NOV-2003 10:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:04 Cal File: h0005687.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

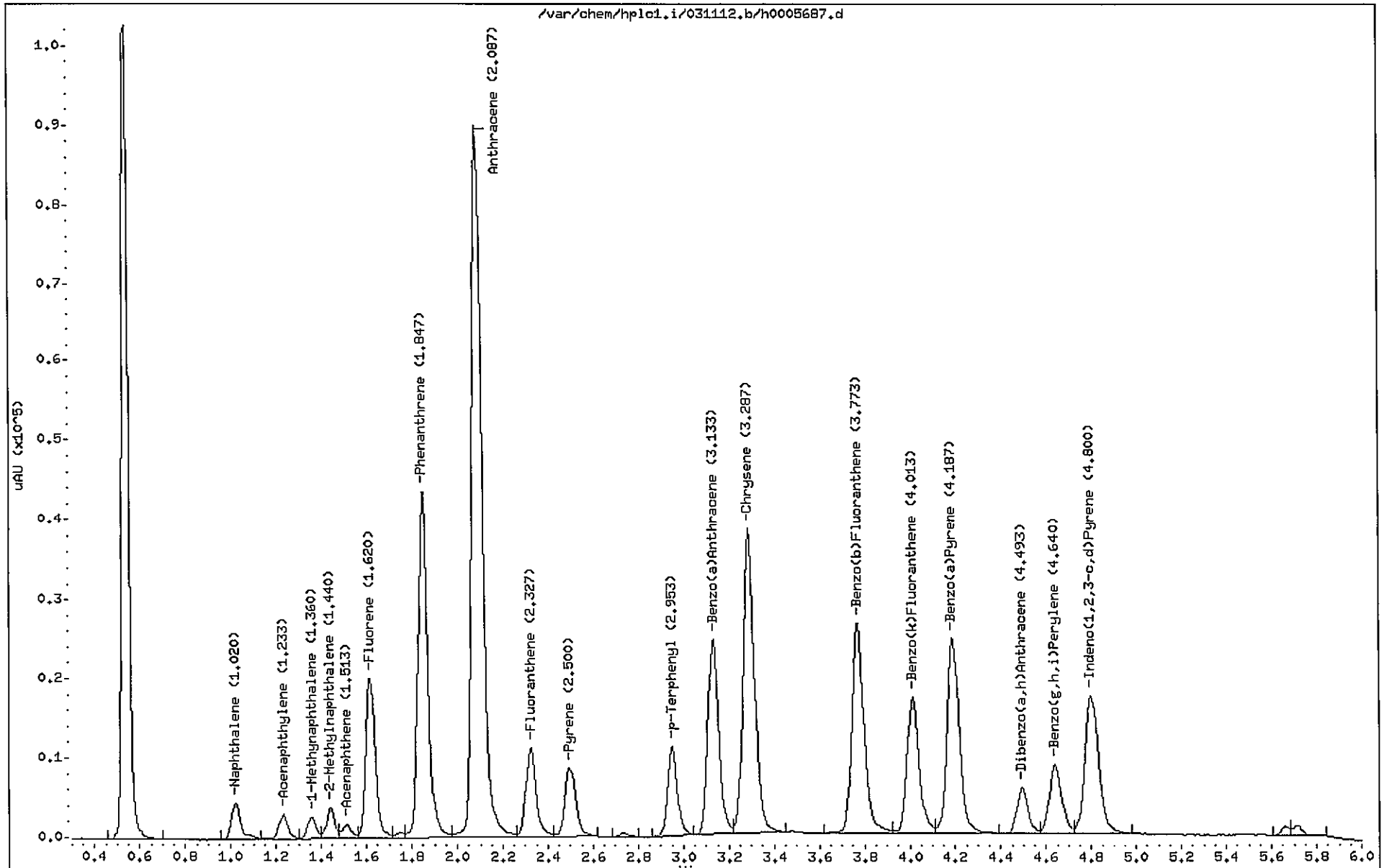
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.020	1.031	-0.011	12758	5.00000	5.22
2 Acenaphthylene	1.233	1.244	-0.011	8479	5.00000	5.14
3 1-Methynaphthalene	1.360	1.368	-0.008	7067	5.00000	5.18
4 2-Methylnaphthalene	1.440	1.455	-0.015	9980	5.00000	5.11
5 Acenaphthene	1.513	1.522	-0.009	5053	5.00000	5.40
6 Fluorene	1.620	1.635	-0.015	57811	5.00000	5.10
7 Phenanthrene	1.847	1.878	-0.031	130846	5.00000	5.05
8 Anthracene	2.087	2.128	-0.041	278551	5.00000	4.96
9 Fluoranthene	2.327	2.368	-0.041	36221	5.00000	4.96
10 Pyrene	2.500	2.544	-0.044	29610	5.00000	5.01
11 p-Terphenyl	2.953	3.018	-0.065	34620	5.00000	4.95
12 Benzo(a)Anthracene	3.133	3.204	-0.071	82473	5.00000	5.09
13 Chrysene	3.287	3.377	-0.090	133866	5.00000	5.11
14 Benzo(b)Fluoranthene	3.773	3.878	-0.105	99787	5.00000	4.94

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.013	4.032	-0.019	63467	5.00000	5.14
16 Benzo(a)Pyrene	4.187	4.212	-0.025	92544	5.00000	5.13
17 Dibenzo(a,h)Anthracene	4.493	4.512	-0.019	19735	5.00000	4.91
18 Benzo(g,h,i)Perylene	4.640	4.658	-0.018	33701	5.00000	5.16
19 Indeno(1,2,3-c,d)Pyrene	4.800	4.825	-0.025	74466	5.00000	5.10

Data File: /var/chem/hplc1.i/031112.b/h0005687.d
Date : 12-NOV-2003 10:04
Client ID: 1112STD06
Sample Info: 1112STD06
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000611



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005686.d
Lab Smp Id: 1112STD07 Client Smp ID: 1112STD07
Inj Date : 12-NOV-2003 09:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 09:57 Cal File: h0005686.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	1.034	1.031	0.003	23577	10.0000	9.65
2 Acenaphthylene	1.248	1.244	0.004	16264	10.0000	9.86
3 1-Methynaphthalene	1.374	1.368	0.006	13535	10.0000	9.93
4 2-Methylnaphthalene	1.461	1.455	0.006	19755	10.0000	10.1
5 Acenaphthene	1.534	1.522	0.012	9229	10.0000	9.87
6 Fluorene	1.641	1.635	0.006	113655	10.0000	10.0
7 Phenanthrene	1.881	1.878	0.003	257966	10.0000	9.96
8 Anthracene	2.127	2.128	-0.001	537377	10.0000	9.56
9 Fluoranthene	2.368	2.368	0.000	68990	10.0000	9.44
10 Pyrene	2.541	2.544	-0.003	57749	10.0000	9.76
11 p-Terphenyl	3.007	3.018	-0.011	67957	10.0000	9.71
12 Benzo(a)Anthracene	3.188	3.204	-0.016	162208	10.0000	10.0
13 Chrysene	3.354	3.377	-0.023	265857	10.0000	10.2
14 Benzo(b)Fluoranthene	3.841	3.878	-0.037	198809	10.0000	9.85

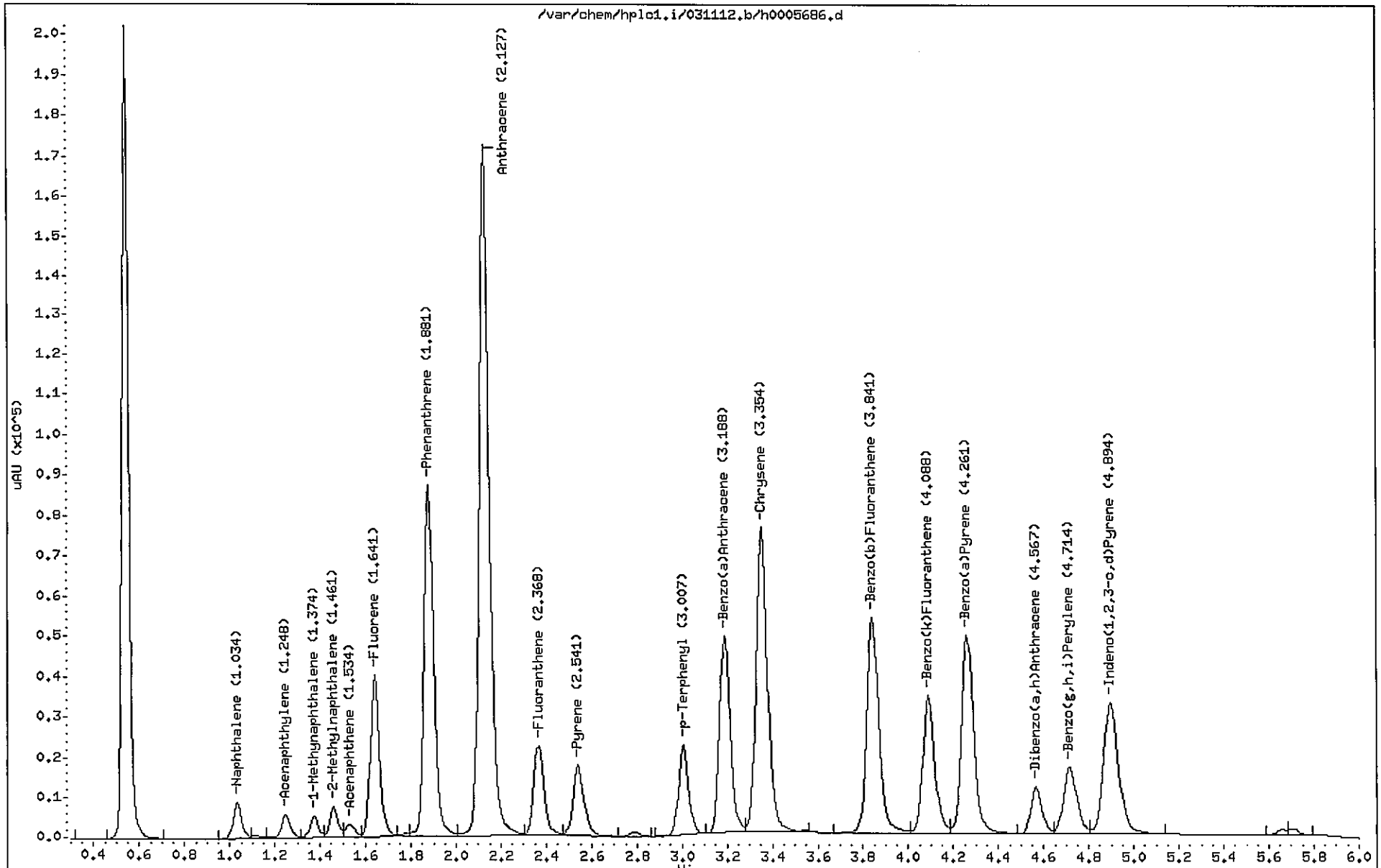
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.088	4.032	0.056	125766	10.0000	10.2
16 Benzo(a)Pyrene	4.261	4.212	0.049	184130	10.0000	10.2
17 Dibenzo(a,h)Anthracene	4.567	4.512	0.055	39585	10.0000	9.84
18 Benzo(g,h,i)Perylene	4.714	4.658	0.056	67635	10.0000	10.4
19 Indeno(1,2,3-c,d)Pyrene	4.894	4.825	0.069	150381	10.0000	10.3

Data File: /var/chem/hplc1.i/031112.b/h0005686.d
Date : 12-NOV-2003 09:57
Client ID: 1112STD07
Sample Info: 1112STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000614



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005685.d
Lab Smp Id: 1112STD08 Client Smp ID: 1112STD08
Inj Date : 12-NOV-2003 09:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 09:50 Cal File: h0005685.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

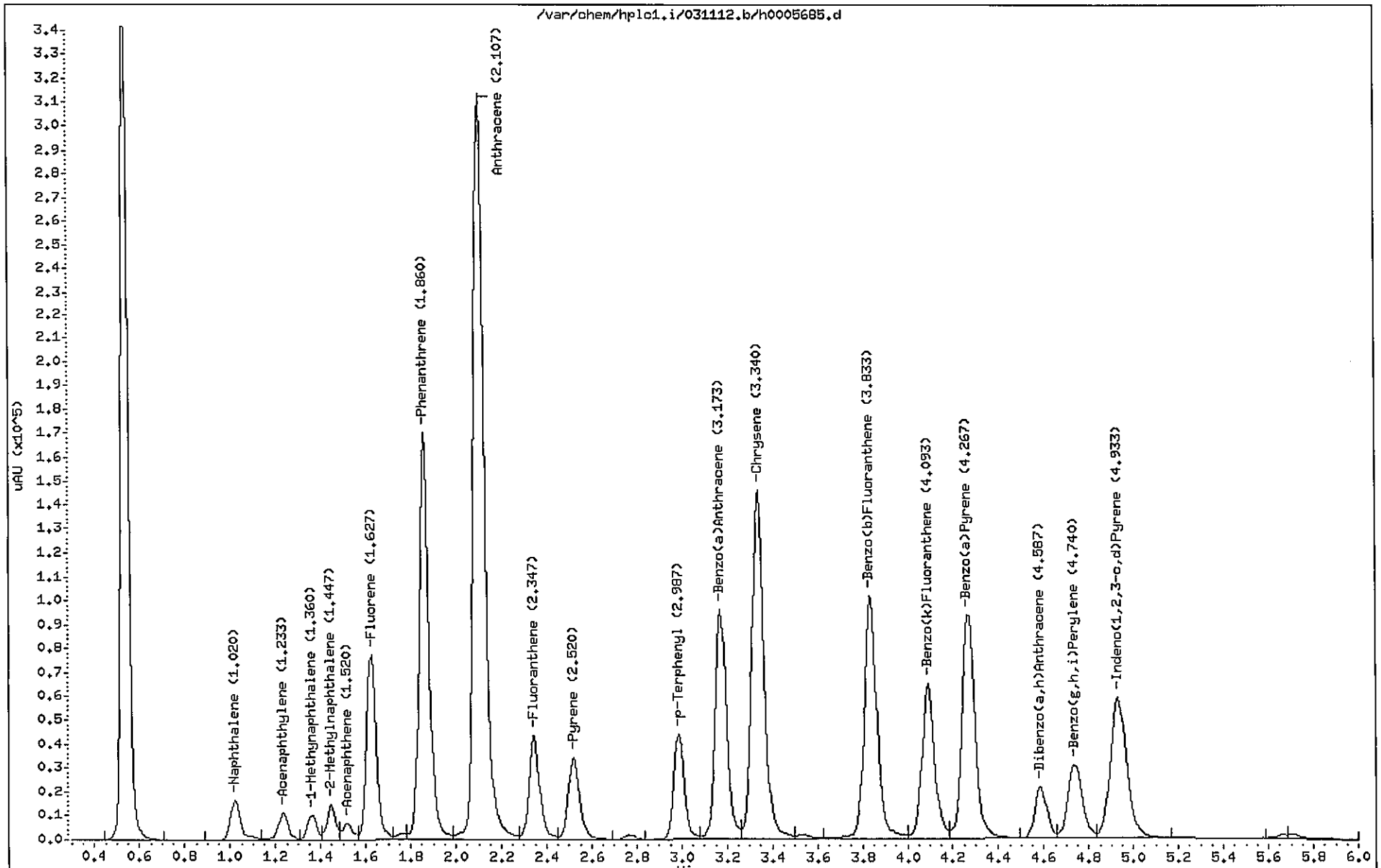
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.020	1.031	-0.011	53015	20.0000	21.7
2 Acenaphthylene	1.233	1.244	-0.011	35771	20.0000	21.7
3 1-Methynaphthalene	1.360	1.368	-0.008	29610	20.0000	21.7
4 2-Methylnaphthalene	1.447	1.455	-0.008	40661	20.0000	20.8
5 Acenaphthene	1.520	1.522	-0.002	21175	20.0000	22.6
6 Fluorene	1.627	1.635	-0.008	230223	20.0000	20.3
7 Phenanthrene	1.860	1.878	-0.018	518447	20.0000	20.0
8 Anthracene	2.107	2.128	-0.021	1028905	20.0000	18.3
9 Fluoranthene	2.347	2.368	-0.021	146071	20.0000	20.0
10 Pyrene	2.520	2.544	-0.024	122539	20.0000	20.7
11 p-Terphenyl	2.987	3.018	-0.031	143207	20.0000	20.5
12 Benzo(a)Anthracene	3.173	3.204	-0.031	338563	20.0000	20.9
13 Chrysene	3.340	3.377	-0.037	549535	20.0000	21.0
14 Benzo(b)Fluoranthene	3.833	3.878	-0.045	404712	20.0000	20.1

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.093	4.032	0.061	254760	20.0000	20.6
16 Benzo(a)Pyrene	4.267	4.212	0.055	372674	20.0000	20.7
17 Dibenzo(a,h)Anthracene	4.587	4.512	0.075	81391	20.0000	20.2
18 Benzo(g,h,i)Perylene	4.740	4.658	0.082	138998	20.0000	21.3
19 Indeno(1,2,3-c,d)Pyrene	4.933	4.825	0.108	302033	20.0000	20.7

Data File: /var/chem/hplc1.i/031112.b/h0005685.d
Date : 12-NOV-2003 09:50
Client ID: 1112STD08
Sample Info: 1112STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000617



Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1112PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/031112.b/flpnauv.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 1112PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	5.43	108.58	80-120
2 Acenaphthylene	5.00	5.41	108.30	80-120
3 1-Methynaphthalene	10.0	11.9	118.86	80-120
4 2-Methylnaphthalen	10.0	10.2	101.87	80-120
5 Acenaphthene	10.0	11.4	114.11	80-120
6 Fluorene	1.00	1.06	106.46	80-120
7 Phenanthrene	0.400	0.415	103.81	80-120
8 Anthracene	0.200	0.206	102.91	80-120
9 Fluoranthene	0.500	0.459	91.78	80-120
10 Pyrene	1.00	1.01	101.31	80-120
12 Benzo(a)Anthracene	0.500	0.481	96.20	80-120
13 Chrysene	0.500	0.493	98.50	80-120
14 Benzo(b)Fluoranthe	0.200	0.197	98.61	80-120
15 Benzo(k)Fluoranthe	0.200	0.180	89.79	80-120
16 Benzo(a)Pyrene	0.500	0.511	102.19	80-120
17 Dibenzo(a,h)Anthra	2.00	2.10	105.03	80-120
18 Benzo(g,h,i)Peryle	0.800	0.835	104.37	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.459	91.85	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.11	102.68	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005693.d
Lab Smp Id: 1112PNAICV Client Smp ID: 1112PNAICV
Inj Date : 12-NOV-2003 11:02
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:32 Cal File: h0005691.d
Als bottle: 1 QC Sample: LCS
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

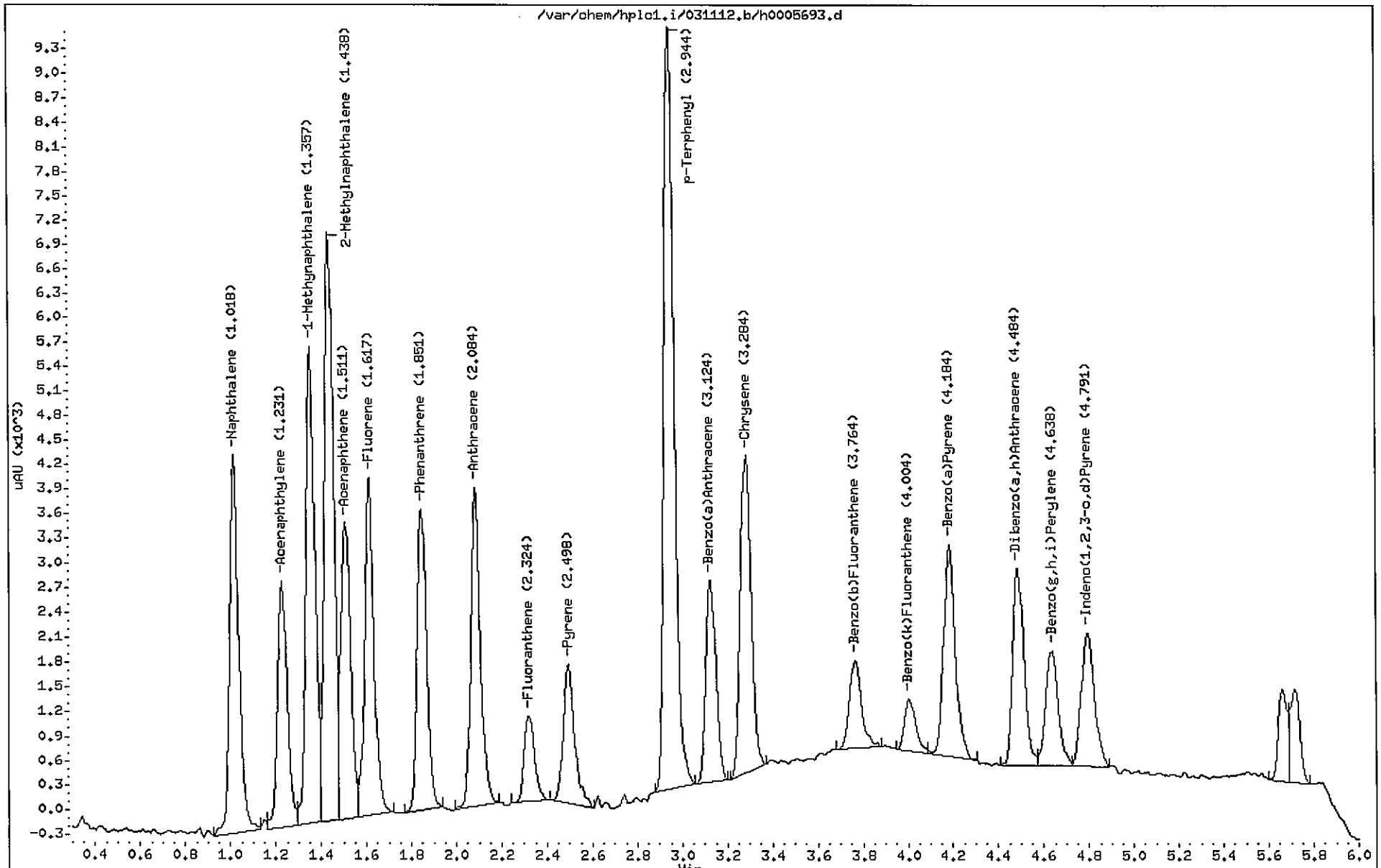
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.018	1.031	-0.013	13266	5.42880	5.43
2 Acenaphthylene	1.231	1.244	-0.013	8931	5.41484	5.41
3 1-Methynaphthalene	1.357	1.368	-0.011	16204	11.8860	11.9
4 2-Methylnaphthalene	1.438	1.455	-0.017	19880	10.1869	10.2
5 Acenaphthene	1.511	1.522	-0.011	10675	11.4113	11.4
6 Fluorene	1.617	1.635	-0.018	12064	1.06459	1.06
7 Phenanthrene	1.851	1.878	-0.027	10754	0.41524	0.415
8 Anthracene	2.084	2.128	-0.044	11566	0.20582	0.206
9 Fluoranthene	2.324	2.368	-0.044	3352	0.45892	0.459
10 Pyrene	2.498	2.544	-0.046	5992	1.01314	1.01
11 p-Terphenyl	2.944	3.018	-0.074	28748	4.10723	4.11
12 Benzo(a)Anthracene	3.124	3.204	-0.080	7800	0.48098	0.481
13 Chrysene	3.284	3.377	-0.093	12894	0.49250	0.493
14 Benzo(b)Fluoranthene	3.764	3.878	-0.114	3980	0.19722	0.197

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.004	4.032	-0.028	2217	0.17958	0.180
16 Benzo(a)Pyrene	4.184	4.212	-0.028	9211	0.51094	0.511
17 Dibenzo(a,h)Anthracene	4.484	4.512	-0.028	8451	2.10061	2.10
18 Benzo(g,h,i)Perylene	4.638	4.658	-0.020	5452	0.83495	0.835
19 Indeno(1,2,3-c,d)Pyrene	4.791	4.825	-0.034	6703	0.45926	0.459

000621

Data File: /var/chem/hplc1.i/031112.b/h0005693.d
Date : 12-NOV-2003 11:02
Client ID: 1112PNAICV
Sample Info: 1112PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005704.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 13:59
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.024	1.031	-0.007	6277	2.50000	2.57
2 Acenaphthylene	1.244	1.244	0.000	3786	2.50000	2.30
3 1-Methynaphthalene	1.364	1.368	-0.004	3167	2.50000	2.32
4 2-Methylnaphthalene	1.451	1.455	-0.004	4456	2.50000	2.28
5 Acenaphthene	1.524	1.522	0.002	2027	2.50000	2.17
6 Fluorene	1.631	1.635	-0.004	27775	2.50000	2.45
7 Phenanthrene	1.871	1.878	-0.007	64402	2.50000	2.49
8 Anthracene	2.118	2.128	-0.010	140388	2.50000	2.50
9 Fluoranthene	2.357	2.368	-0.011	17853	2.50000	2.44
10 Pyrene	2.538	2.544	-0.006	14955	2.50000	2.53
11 p-Terphenyl	3.004	3.018	-0.014	17171	2.50000	2.45
12 Benzo(a)Anthracene	3.191	3.204	-0.013	39274	2.50000	2.42
13 Chrysene	3.357	3.377	-0.020	64114	2.50000	2.45
14 Benzo(b)Fluoranthene	3.857	3.878	-0.021	48506	2.50000	2.40

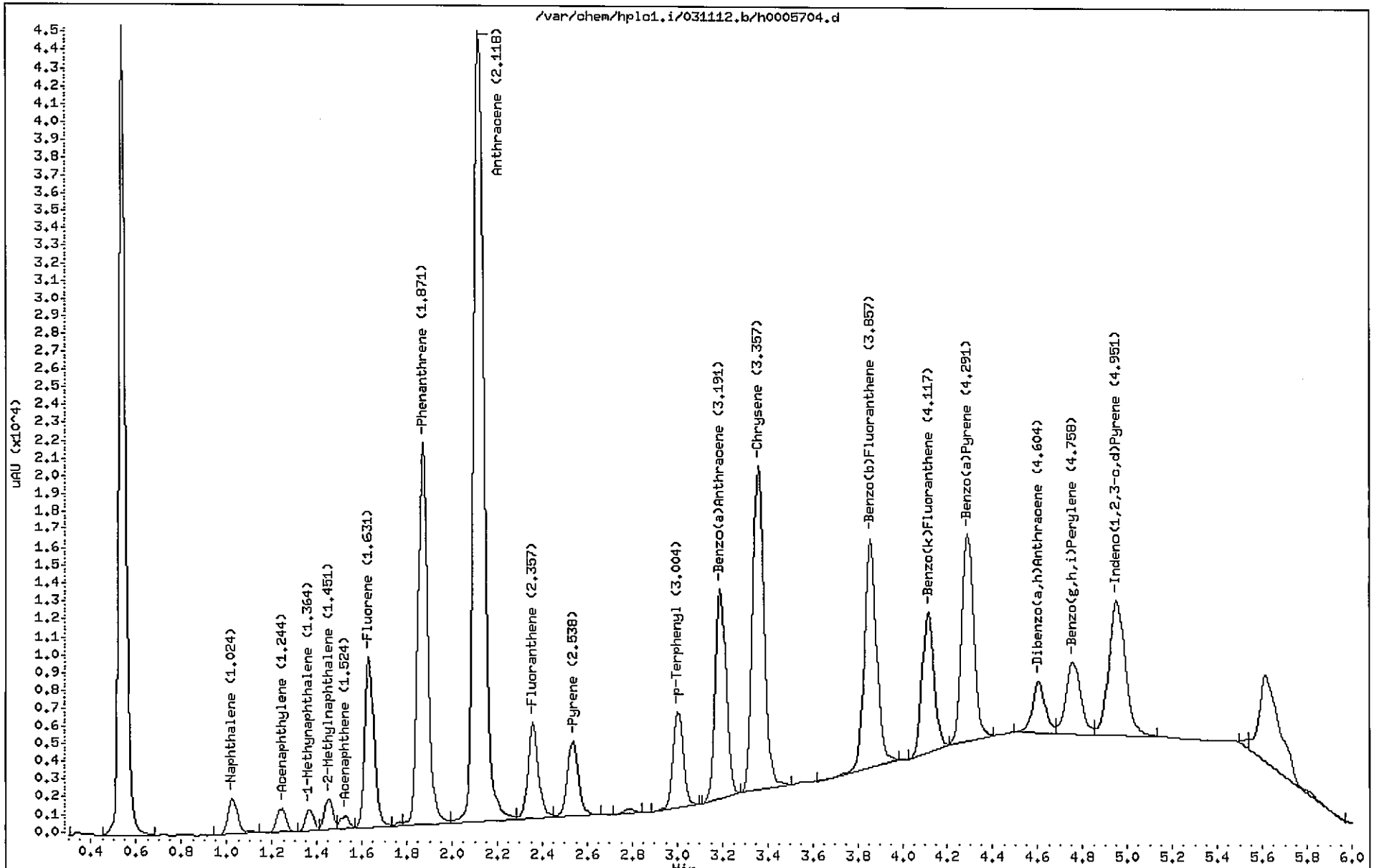
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.117	4.032	0.085	28971	2.50000	2.35
16 Benzo(a)Pyrene	4.291	4.212	0.079	42741	2.50000	2.37
17 Dibenzo(a,h)Anthracene	4.604	4.512	0.092	11555	2.50000	2.87
18 Benzo(g,h,i)Perylene	4.758	4.658	0.100	18553	2.50000	2.84
19 Indeno(1,2,3-c,d)Pyrene	4.951	4.825	0.126	38688	2.50000	2.65

Data File: /var/chem/hplc1.i/031112.b/h0005704.d
Date : 12-NOV-2003 13:59
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000624



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005715.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 15:55
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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

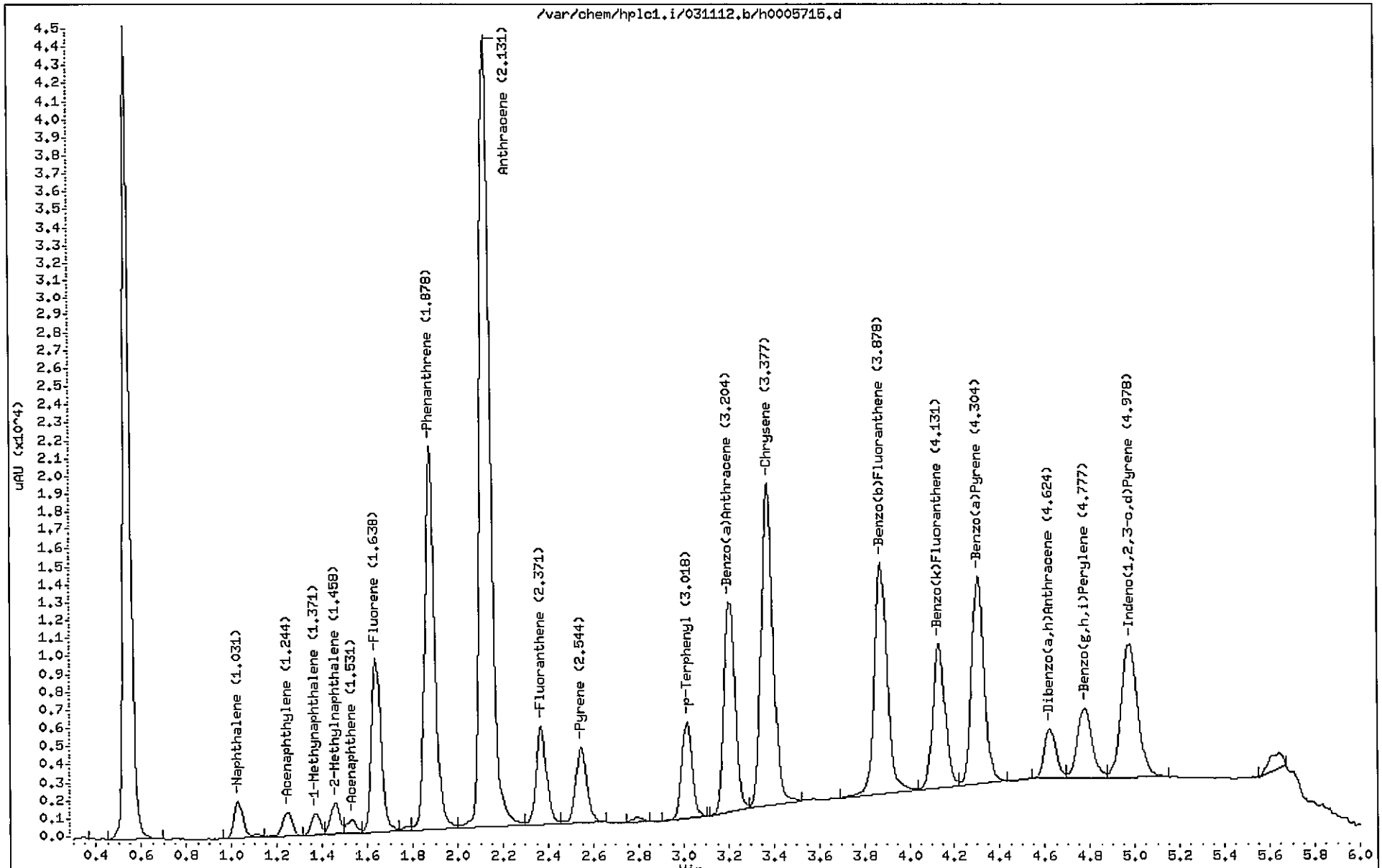
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.031	1.031	0.000	5995	2.50000	2.45
2 Acenaphthylene	1.244	1.244	0.000	3860	2.50000	2.34
3 1-Methynaphthalene	1.371	1.368	0.003	3170	2.50000	2.33
4 2-Methylnaphthalene	1.458	1.455	0.003	4767	2.50000	2.44
5 Acenaphthene	1.531	1.522	0.009	2233	2.50000	2.39
6 Fluorene	1.638	1.635	0.003	28210	2.50000	2.49
7 Phenanthrene	1.878	1.878	0.000	64988	2.50000	2.51
8 Anthracene	2.131	2.128	0.003	140790	2.50000	2.51
9 Fluoranthene	2.371	2.368	0.003	17766	2.50000	2.43
10 Pyrene	2.544	2.544	0.000	14761	2.50000	2.50
11 p-Terphenyl	3.018	3.018	0.000	17217	2.50000	2.46
12 Benzo(a)Anthracene	3.204	3.204	0.000	39825	2.50000	2.46
13 Chrysene	3.377	3.377	0.000	65088	2.50000	2.49
14 Benzo(b)Fluoranthene	3.878	3.878	0.000	50857	2.50000	2.52

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.131	4.032	0.099	30471	2.50000	2.47
16 Benzo(a)Pyrene	4.304	4.212	0.092	44004	2.50000	2.44
17 Dibenzo(a,h)Anthracene	4.624	4.512	0.112	10038	2.50000	2.49
18 Benzo(g,h,i)Perylene	4.777	4.658	0.119	17431	2.50000	2.67
19 Indeno(1,2,3-c,d)Pyrene	4.978	4.825	0.153	37760	2.50000	2.59

Data File: /var/chem/hplc1.i/031112.b/h0005715.d
Date : 12-NOV-2003 15:55
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000627



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005724.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 17:52
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.028	1.031	-0.003	5827	2.50000	2.38
2 Acenaphthylene	1.242	1.244	-0.002	3634	2.50000	2.20
3 1-Methynaphthalene	1.368	1.368	0.000	3275	2.50000	2.40(M)
4 2-Methylnaphthalene	1.455	1.455	0.000	4887	2.50000	2.50(M)
5 Acenaphthene	1.522	1.522	0.000	2160	2.50000	2.31(M)
6 Fluorene	1.635	1.635	0.000	28411	2.50000	2.51(M)
7 Phenanthrene	1.875	1.878	-0.003	65406	2.50000	2.53
8 Anthracene	2.128	2.128	0.000	141056	2.50000	2.51
9 Fluoranthene	2.368	2.368	0.000	18443	2.50000	2.52
10 Pyrene	2.542	2.544	-0.002	15556	2.50000	2.63
11 p-Terphenyl	3.015	3.018	-0.003	16857	2.50000	2.41
12 Benzo(a)Anthracene	3.208	3.204	0.004	39655	2.50000	2.45
13 Chrysene	3.375	3.377	-0.002	65303	2.50000	2.49
14 Benzo(b)Fluoranthene	3.875	3.878	-0.003	49515	2.50000	2.45

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
15 Benzo(k)Fluoranthene	4.135	4.032	0.103	29621	2.50000	2.40
16 Benzo(a)Pyrene	4.308	4.212	0.096	43571	2.50000	2.42
17 Dibenzo(a,h)Anthracene	4.622	4.512	0.110	10779	2.50000	2.68
18 Benzo(g,h,i)Perylene	4.775	4.658	0.117	17956	2.50000	2.75
19 Indeno(1,2,3-c,d)Pyrene	4.975	4.825	0.150	37609	2.50000	2.58

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112.b/h0005724.d

Date : 12-NOV-2003 17:52

Client ID: 1112STD05

Sample Info: 1112STD05

Volume Injected (uL): 10.0

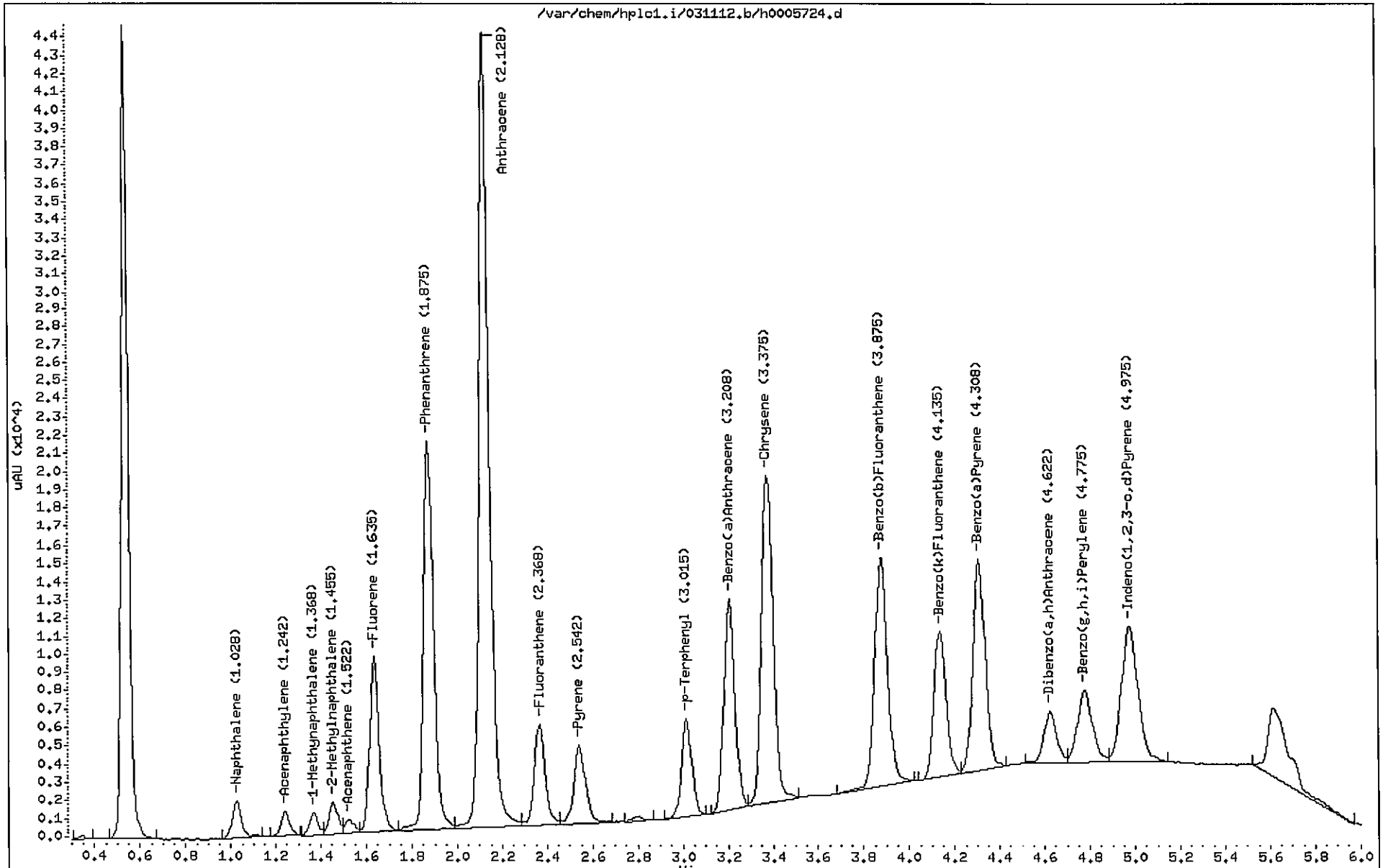
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000630



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005692.d
Lab Smp Id: 1112STD01 Client Smp ID: 1112STD01
Inj Date : 12-NOV-2003 10:39
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD01
Misc Info : 3-46-10
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.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)
7 Phenanthrene	1.863	1.863	0.000	1600	0.10000	0.102
8 Anthracene	2.103	2.143	-0.040	648	0.10000	0.112(M)
9 Fluoranthene	2.340	2.383	-0.043	628	0.10000	0.110(M)
10 Pyrene	2.503	2.560	-0.057	3403	0.10000	0.102(M)
11 p-Terphenyl	2.950	3.033	-0.083	651	0.10000	0.0746(M)
12 Benzo(a)Anthracene	3.127	3.223	-0.096	2538	0.10000	0.0912(M)
13 Chrysene	3.287	3.390	-0.103	247	0.10000	0.0663(M)
14 Benzo(b)Fluoranthene	3.760	3.890	-0.130	2414	0.10000	0.104(M)
15 Benzo(k)Fluoranthene	4.000	4.043	-0.043	5432	0.10000	0.107(M)
16 Benzo(a)Pyrene	4.177	4.220	-0.043	4607	0.10000	0.105(M)
17 Dibenzo(a,h)Anthracene	4.477	4.527	-0.050	1682	0.10000	0.101(M)
18 Benzo(g,h,i)Perylene	4.627	4.673	-0.046	1433	0.10000	0.101(M)

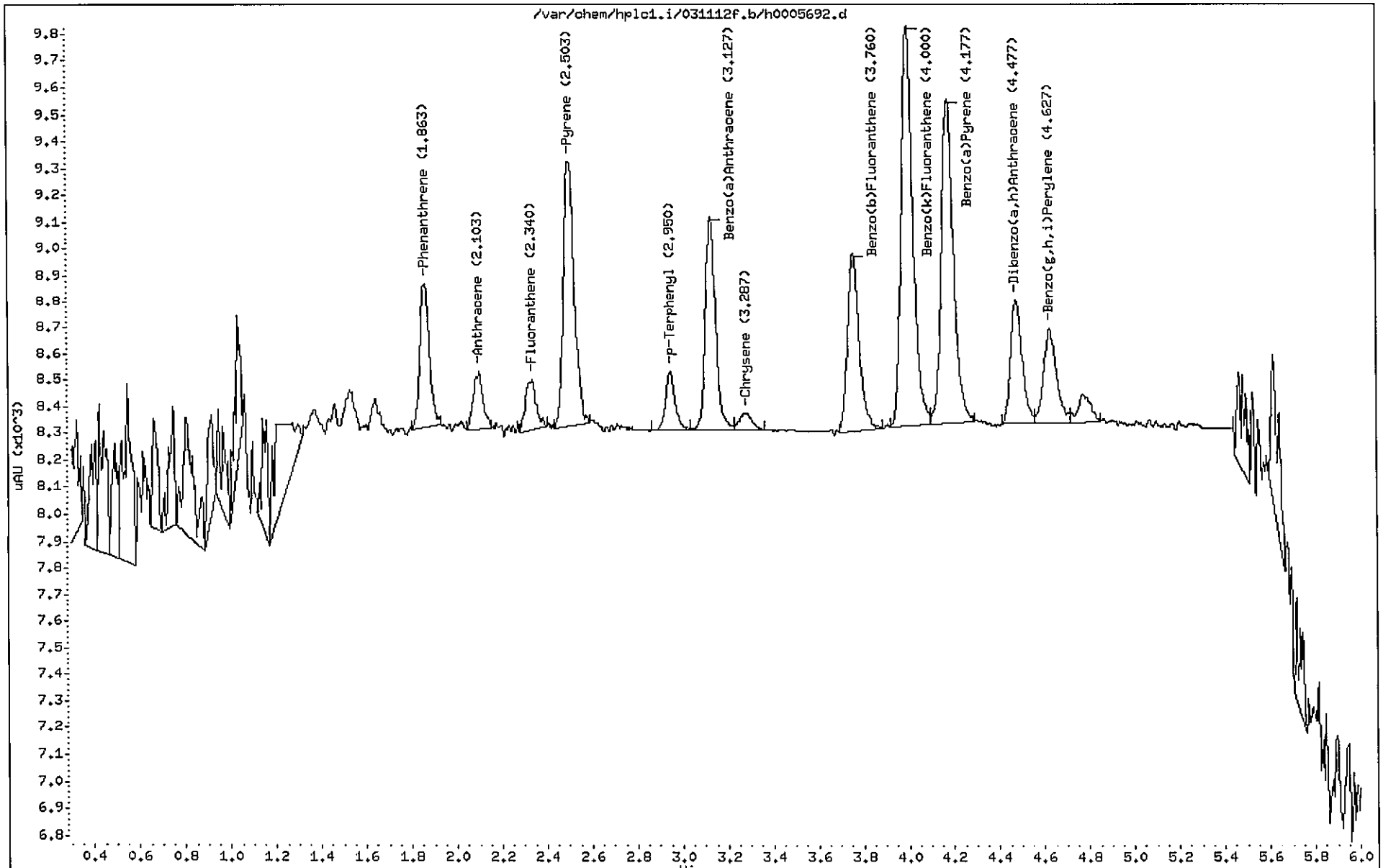
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005692.d
Date : 12-NOV-2003 10:39
Client ID: 1112STD01
Sample Info: 1112STD01
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000633



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005691.d
Lab Smp Id: 1112STD02 Client Smp ID: 1112STD02
Inj Date : 12-NOV-2003 10:32
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD02
Misc Info : 3-46-9
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:32 Cal File: h0005691.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	1.043	1.043	0.000	2516	0.25000	0.240(M)
7 Phenanthrene	1.873	1.863	0.010	3772	0.25000	0.240
8 Anthracene	2.113	2.143	-0.030	1388	0.25000	0.239(M)
9 Fluoranthene	2.347	2.383	-0.036	1307	0.25000	0.229
10 Pyrene	2.520	2.560	-0.040	7857	0.25000	0.236
11 p-Terphenyl	2.973	3.033	-0.060	1824	0.25000	0.209(M)
12 Benzo(a)Anthracene	3.153	3.223	-0.070	6541	0.25000	0.235(M)
13 Chrysene	3.313	3.390	-0.077	557	0.25000	0.150(M)
14 Benzo(b)Fluoranthene	3.793	3.890	-0.097	5652	0.25000	0.244(M)
15 Benzo(k)Fluoranthene	4.037	4.043	-0.006	12857	0.25000	0.253(M)
16 Benzo(a)Pyrene	4.213	4.220	-0.007	11037	0.25000	0.251(M)
17 Dibenzo(a,h)Anthracene	4.517	4.527	-0.010	3991	0.25000	0.241(M)
18 Benzo(g,h,i)Perylene	4.667	4.673	-0.006	3397	0.25000	0.239(M)
19 Indeno(1,2,3-c,d)Pyrene	4.827	4.837	-0.010	1158	0.25000	0.253(M)

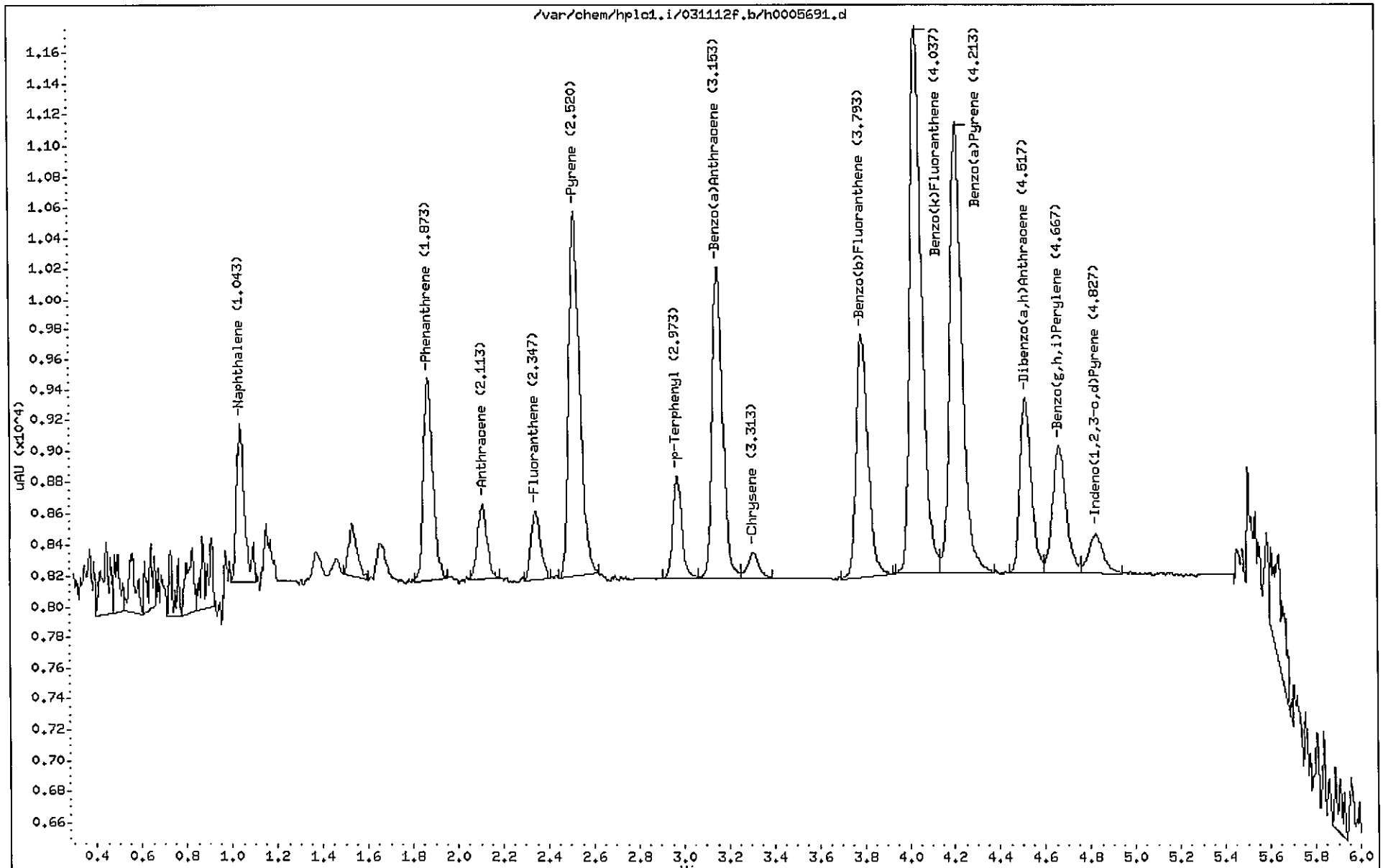
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005691.d
Date : 12-NOV-2003 10:32
Client ID: 1112STD02
Sample Info: 1112STD02
Volume Injected (uL): 10.0
Column phase: 201TP-0.15H

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

000636



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005690.d
Lab Smp Id: 1112STD03 Client Smp ID: 1112STD03
Inj Date : 12-NOV-2003 10:25
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD03
Misc Info : 3-46-8
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:25 Cal File: h0005690.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	1.043	1.043	0.000	5076	0.50000	0.484(M)
7 Phenanthrene	1.890	1.863	0.027	7600	0.50000	0.483
8 Anthracene	2.140	2.143	-0.003	2930	0.50000	0.505
9 Fluoranthene	2.380	2.383	-0.003	2821	0.50000	0.493
10 Pyrene	2.553	2.560	-0.007	17007	0.50000	0.510
11 p-Terphenyl	3.027	3.033	-0.006	4072	0.50000	0.466
12 Benzo(a)Anthracene	3.213	3.223	-0.010	13793	0.50000	0.496
13 Chrysene	3.380	3.390	-0.010	1136	0.50000	0.305
14 Benzo(b)Fluoranthene	3.877	3.890	-0.013	11240	0.50000	0.485
15 Benzo(k)Fluoranthene	4.130	4.043	0.087	25791	0.50000	0.507
16 Benzo(a)Pyrene	4.303	4.220	0.083	21473	0.50000	0.488
17 Dibenzo(a,h)Anthracene	4.617	4.527	0.090	8227	0.50000	0.496(M)
18 Benzo(g,h,i)Perylene	4.770	4.673	0.097	6945	0.50000	0.489(M)
19 Indeno(1,2,3-c,d)Pyrene	4.957	4.837	0.120	2143	0.50000	0.468(M)

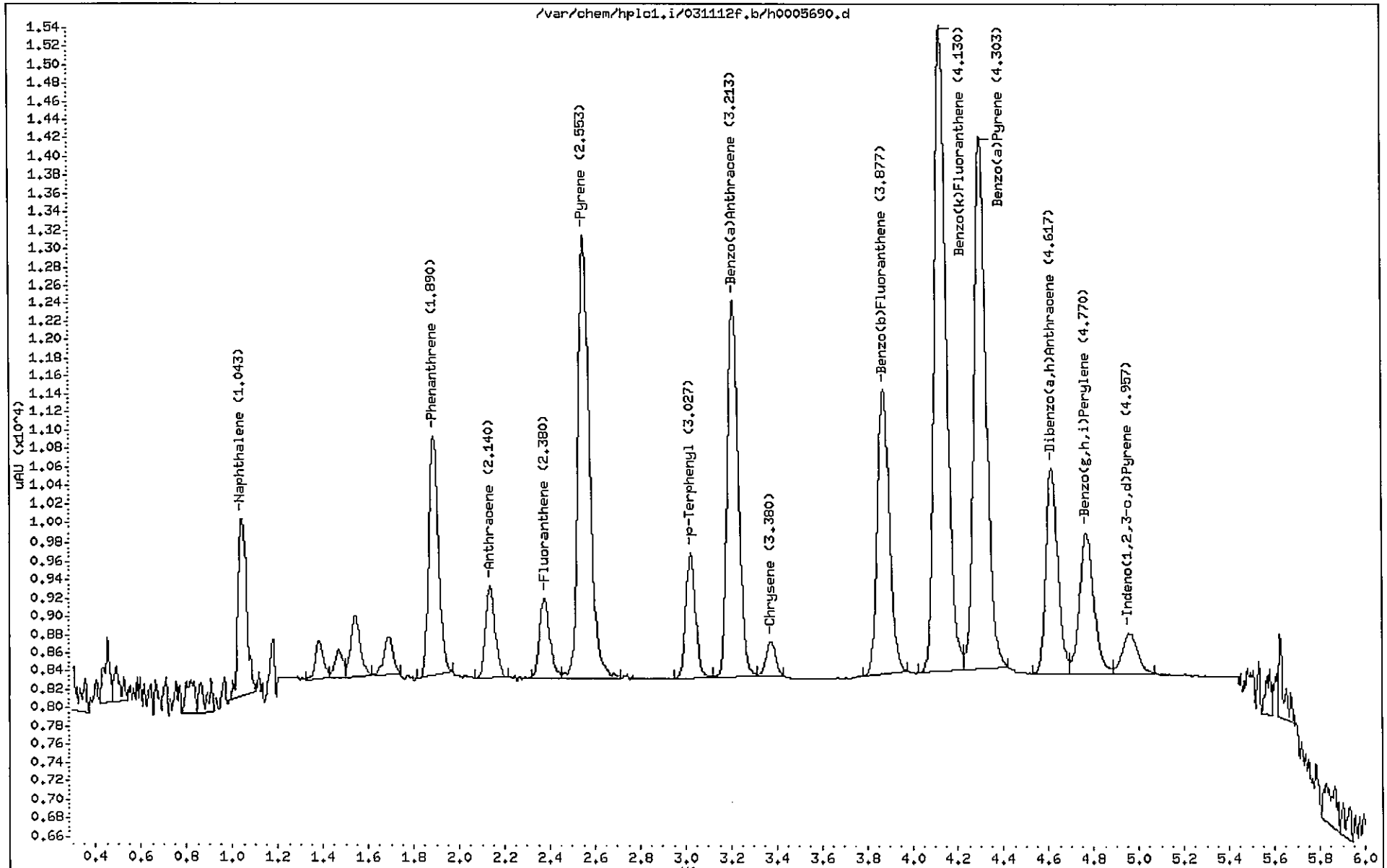
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005690.d
Date : 12-NOV-2003 10:25
Client ID: 1112STD03
Sample Info: 1112STD03
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000639



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005689.d
Lab Smp Id: 1112STD04 Client Smp ID: 1112STD04
Inj Date : 12-NOV-2003 10:18
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD04
Misc Info : 3-46-7
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:18 Cal File: h0005689.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	1.037	1.043	-0.006	10983	1.00000	1.05
3 1-Methynaphthalene	1.377	1.387	-0.010	2074	1.00000	0.951
4 2-Methylnaphthalene	1.463	1.473	-0.010	1693	1.00000	0.953
5 Acenaphthene	1.533	1.547	-0.014	4243	1.00000	0.953
7 Phenanthrene	1.877	1.863	0.014	15328	1.00000	0.975
8 Anthracene	2.120	2.143	-0.023	5515	1.00000	0.951
9 Fluoranthene	2.357	2.383	-0.026	5589	1.00000	0.977
10 Pyrene	2.530	2.560	-0.030	32622	1.00000	0.978
11 p-Terphenyl	2.993	3.033	-0.040	8621	1.00000	0.988
12 Benzo(a)Anthracene	3.177	3.223	-0.046	28163	1.00000	1.01
13 Chrysene	3.340	3.390	-0.050	2950	1.00000	0.791
14 Benzo(b)Fluoranthene	3.833	3.890	-0.057	22910	1.00000	0.988
15 Benzo(k)Fluoranthene	4.087	4.043	0.044	51460	1.00000	1.01
16 Benzo(a)Pyrene	4.263	4.220	0.043	43349	1.00000	0.985

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.580	4.527	0.053	16286	1.00000	0.982(M)
18 Benzo(g,h,i)Perylene	4.730	4.673	0.057	13708	1.00000	0.965(M)
19 Indeno(1,2,3-c,d)Pyrene	4.917	4.837	0.080	4467	1.00000	0.975(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005689.d

Date : 12-NOV-2003 10:18

Client ID: 1112STD04

Sample Info: 1112STD04

Volume Injected (uL): 10.0

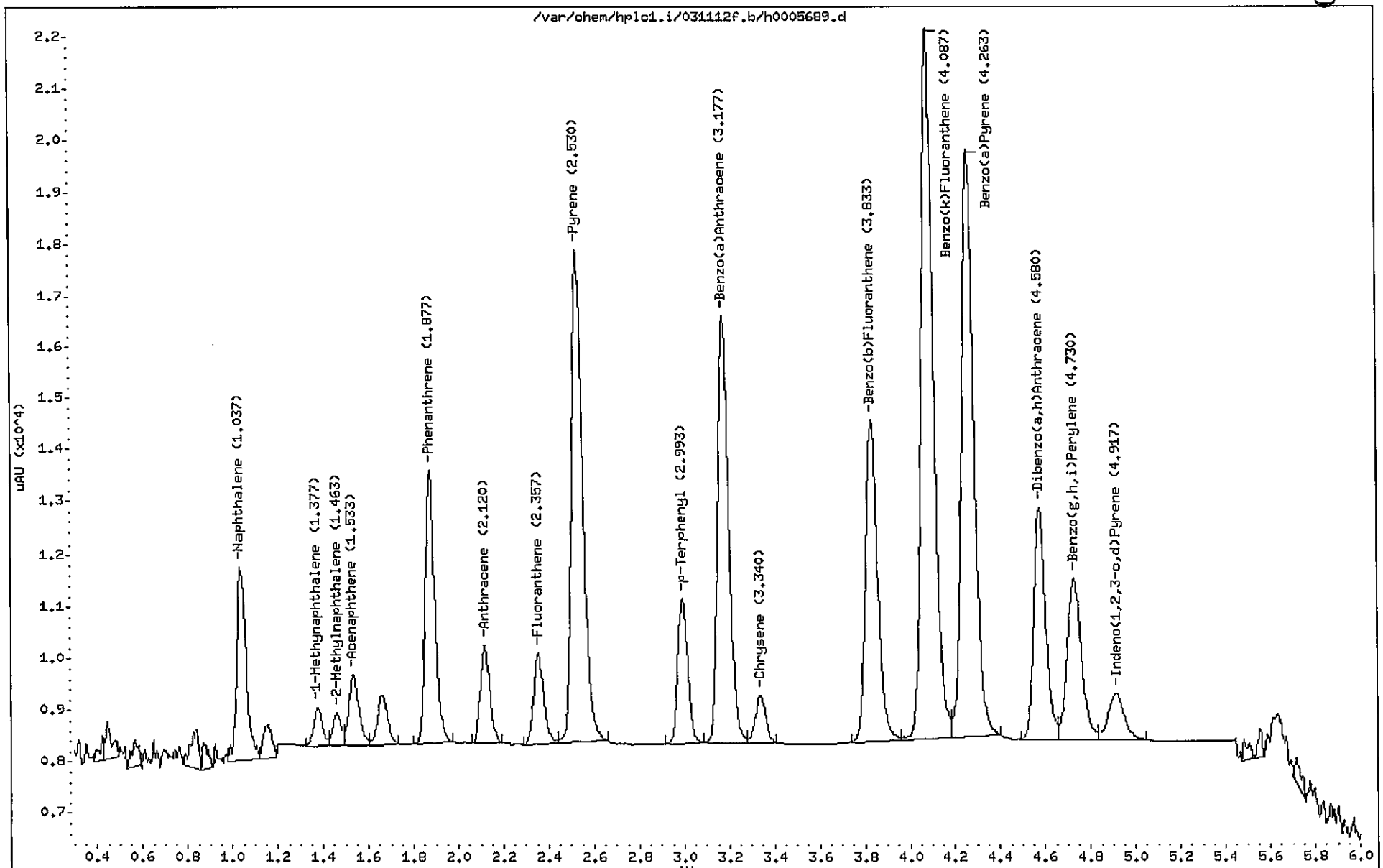
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt

Column diameter: 2.10

000642



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005688.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 10:11
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:11 Cal File: h0005688.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	1.030	1.043	-0.013	27642	2.50000	2.64
3 1-Methynaphthalene	1.367	1.387	-0.020	5042	2.50000	2.31(M)
4 2-Methylnaphthalene	1.450	1.473	-0.023	4301	2.50000	2.42(M)
5 Acenaphthene	1.520	1.547	-0.027	10854	2.50000	2.44(M)
7 Phenanthrene	1.857	1.863	-0.006	38762	2.50000	2.46(M)
8 Anthracene	2.090	2.143	-0.053	13749	2.50000	2.37(M)
9 Fluoranthene	2.323	2.383	-0.060	13658	2.50000	2.39
10 Pyrene	2.497	2.560	-0.063	83035	2.50000	2.49
11 p-Terphenyl	2.943	3.033	-0.090	22837	2.50000	2.62
12 Benzo(a)Anthracene	3.120	3.223	-0.103	72439	2.50000	2.60
13 Chrysene	3.273	3.390	-0.117	8907	2.50000	2.38
14 Benzo(b)Fluoranthene	3.750	3.890	-0.140	57814	2.50000	2.49
15 Benzo(k)Fluoranthene	3.990	4.043	-0.053	130244	2.50000	2.56
16 Benzo(a)Pyrene	4.167	4.220	-0.053	112107	2.50000	2.55

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.470	4.527	-0.057	40863	2.50000	2.46
18 Benzo(g,h,i)Perylene	4.617	4.673	-0.056	34486	2.50000	2.43
19 Indeno(1,2,3-c,d)Pyrene	4.770	4.837	-0.067	11082	2.50000	2.42

QC Flag Legend

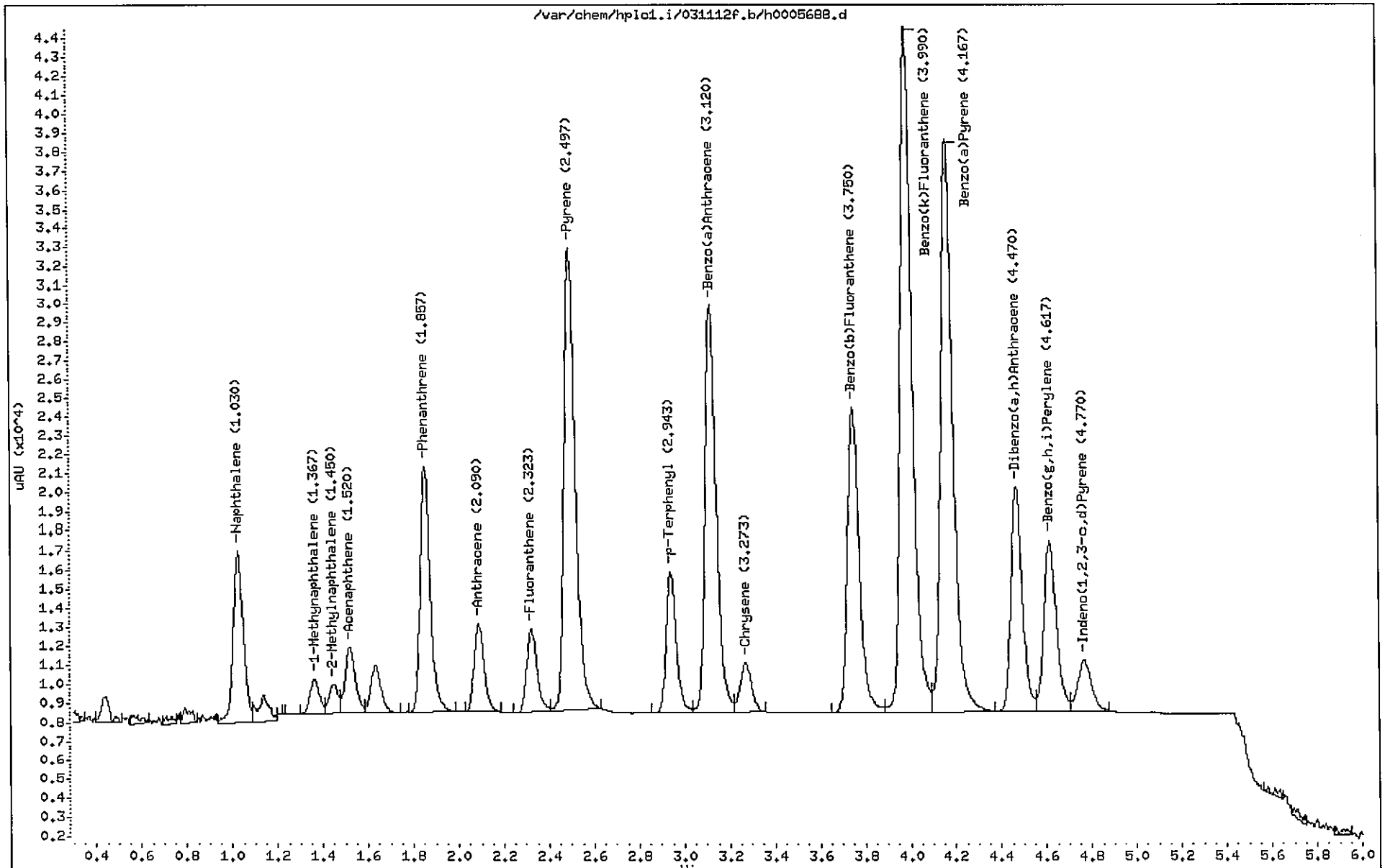
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005688.d
Date : 12-NOV-2003 10:11
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000645



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005687.d
Lab Smp Id: 1112STD06 Client Smp ID: 1112STD06
Inj Date : 12-NOV-2003 10:04
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD06
Misc Info : 3-46-5
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:04 Cal File: h0005687.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

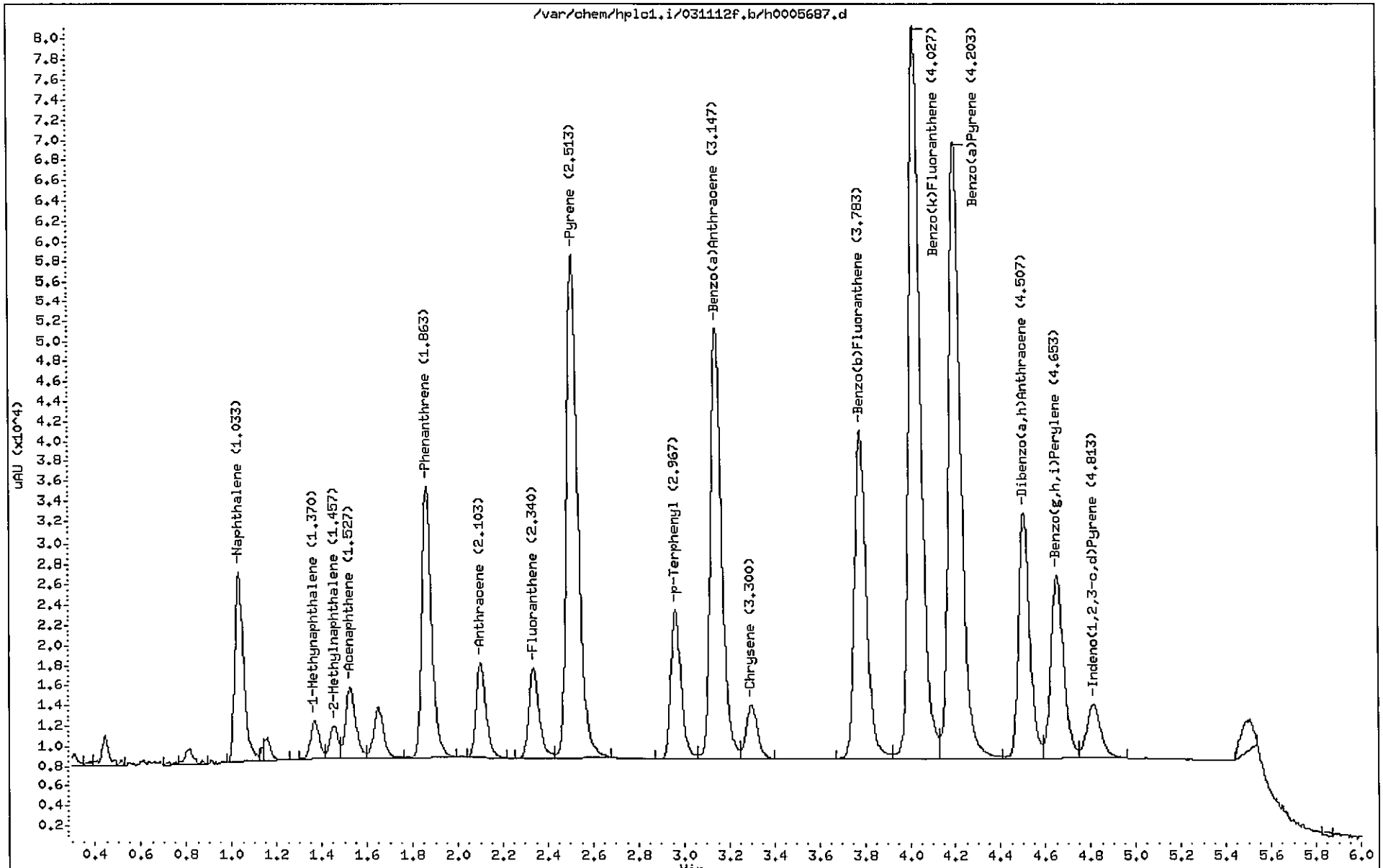
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.033	1.043	-0.010	51785	5.00000	4.94
3 1-Methynaphthalene	1.370	1.387	-0.017	10206	5.00000	4.68
4 2-Methylnaphthalene	1.457	1.473	-0.016	8451	5.00000	4.76
5 Acenaphthene	1.527	1.547	-0.020	21663	5.00000	4.86
7 Phenanthrene	1.863	1.863	0.000	79142	5.00000	5.03
8 Anthracene	2.103	2.143	-0.040	28146	5.00000	4.85
9 Fluoranthene	2.340	2.383	-0.043	28613	5.00000	5.00
10 Pyrene	2.513	2.560	-0.047	171787	5.00000	5.15
11 p-Terphenyl	2.967	3.033	-0.066	46475	5.00000	5.32
12 Benzo(a)Anthracene	3.147	3.223	-0.076	146462	5.00000	5.27
13 Chrysene	3.300	3.390	-0.090	18679	5.00000	4.95
14 Benzo(b)Fluoranthene	3.783	3.890	-0.107	117524	5.00000	5.07
15 Benzo(k)Fluoranthene	4.027	4.043	-0.016	262561	5.00000	5.16
16 Benzo(a)Pyrene	4.203	4.220	-0.017	228739	5.00000	5.20

					AMOUNTS	
					CAL-AMT	ON-COL
ompounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)
==========	==	======	======	========	=======	=======
17 Dibenzo(a,h)Anthracene	4.507	4.527	-0.020	84340	5.00000	5.08
18 Benzo(g,h,i)Perylene	4.653	4.673	-0.020	72609	5.00000	5.11
19 Indeno(1,2,3-c,d)Pyrene	4.813	4.837	-0.024	23530	5.00000	5.13

000648

Data File: /var/chem/hplc1.i/031112f.b/h0005687.d
Date : 12-NOV-2003 10:04
Client ID: 1112STD06
Sample Info: 1112STD06
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005686.d
Lab Smp Id: 1112STD07 Client Smp ID: 1112STD07
Inj Date : 12-NOV-2003 09:57
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD07
Misc Info : 3-46-4
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 09:57 Cal File: h0005686.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

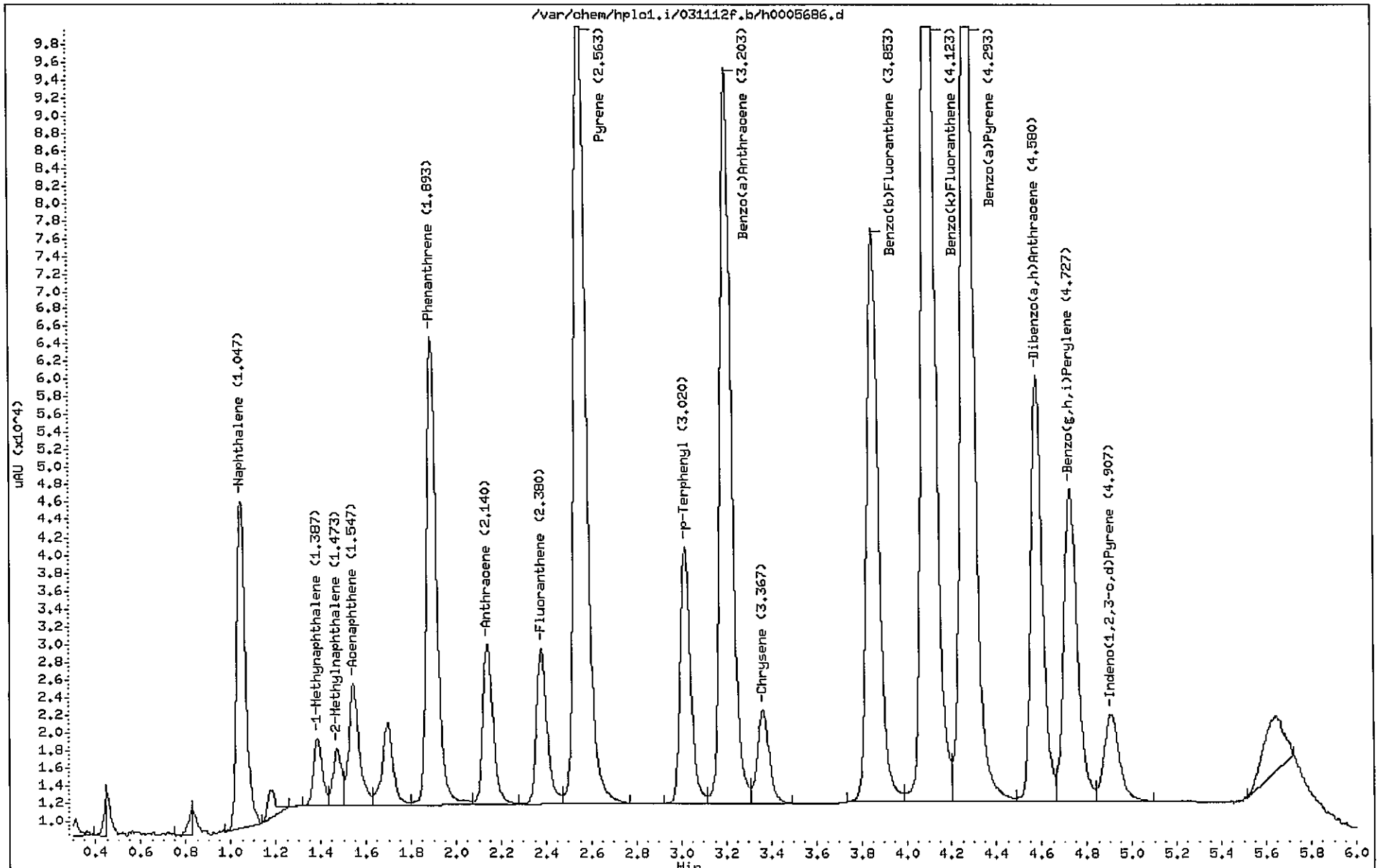
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.047	1.043	0.004	102098	10.0000	9.73
3 1-Methynaphthalene	1.387	1.387	0.000	20790	10.0000	9.54
4 2-Methylnaphthalene	1.473	1.473	0.000	17118	10.0000	9.64
5 Acenaphthene	1.547	1.547	0.000	44660	10.0000	10.0
7 Phenanthrene	1.893	1.863	0.030	163662	10.0000	10.4
8 Anthracene	2.140	2.143	-0.003	58566	10.0000	10.1
9 Fluoranthene	2.380	2.383	-0.003	58630	10.0000	10.3
10 Pyrene	2.563	2.560	0.003	337266	10.0000	10.1
11 p-Terphenyl	3.020	3.033	-0.013	93361	10.0000	10.7
12 Benzo(a)Anthracene	3.203	3.223	-0.020	291376	10.0000	10.5
13 Chrysene	3.367	3.390	-0.023	38829	10.0000	10.1
14 Benzo(b)Fluoranthene	3.853	3.890	-0.037	235646	10.0000	10.2
15 Benzo(k)Fluoranthene	4.123	4.043	0.080	427231	10.0000	8.40
16 Benzo(a)Pyrene	4.293	4.220	0.073	410483	10.0000	9.32

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.580	4.527	0.053	170907	10.0000	10.3
18 Benzo(g,h,i)Perylene	4.727	4.673	0.054	148208	10.0000	10.4
19 Indeno(1,2,3-c,d)Pyrene	4.907	4.837	0.070	47820	10.0000	10.4

Data File: /var/chem/hplc1.i/031112f.b/h0005686.d
Date : 12-NOV-2003 09:57
Client ID: 1112STD07
Sample Info: 1112STD07
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000651



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005685.d
Lab Smp Id: 1112STD08 Client Smp ID: 1112STD08
Inj Date : 12-NOV-2003 09:50
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD08
Misc Info : 3-46-3
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 09:50 Cal File: h0005685.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

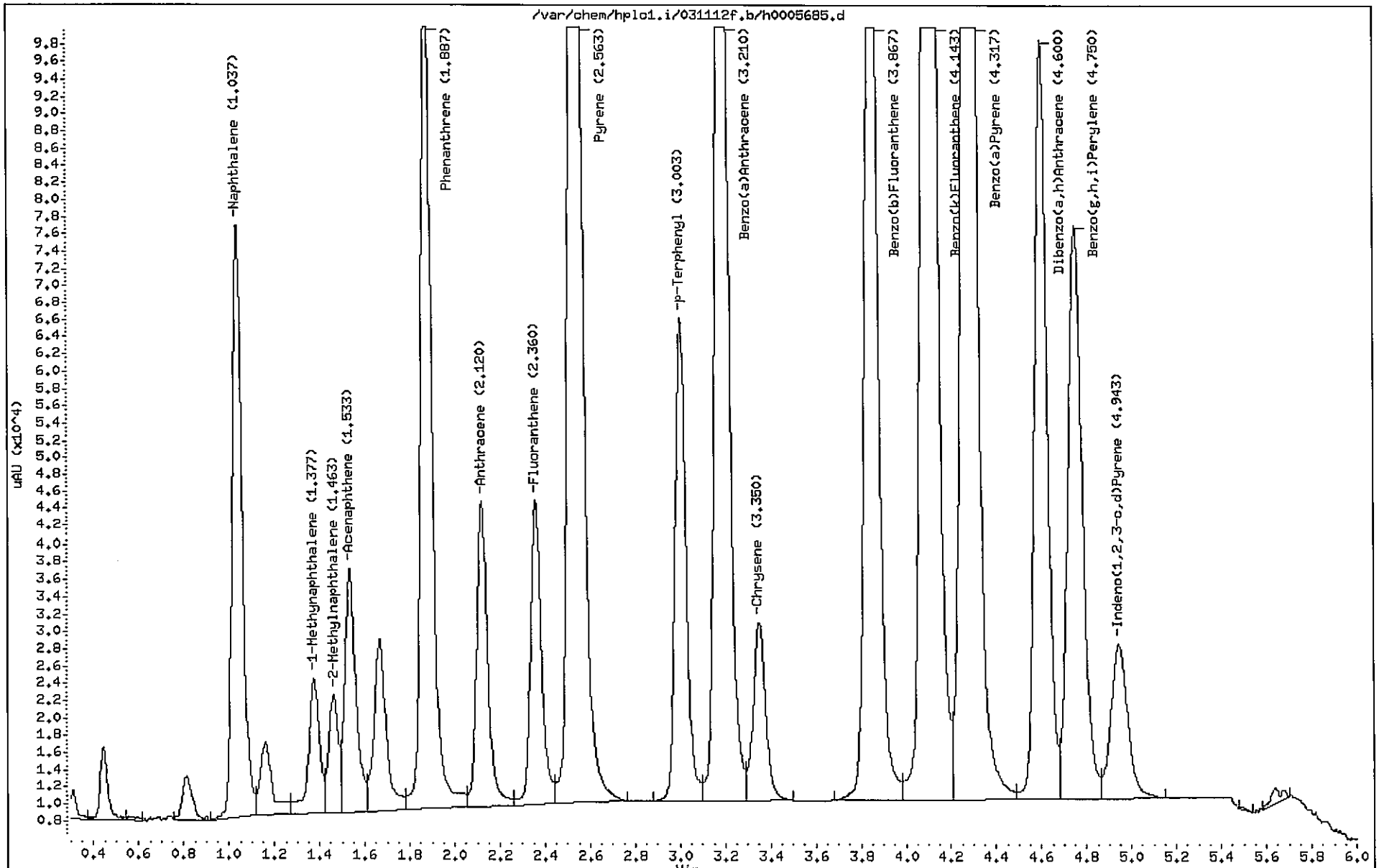
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.037	1.043	-0.006	212067	20.0000	20.2
3 1-Methynaphthalene	1.377	1.387	-0.010	53771	20.0000	24.7
4 2-Methylnaphthalene	1.463	1.473	-0.010	41350	20.0000	23.3
5 Acenaphthene	1.533	1.547	-0.014	97679	20.0000	21.9
7 Phenanthrene	1.887	1.863	0.024	329898	20.0000	21.0
8 Anthracene	2.120	2.143	-0.023	120357	20.0000	20.7
9 Fluoranthene	2.360	2.383	-0.023	119108	20.0000	20.8
10 Pyrene	2.563	2.560	0.003	487885	20.0000	14.6
11 p-Terphenyl	3.003	3.033	-0.030	185642	20.0000	21.3
12 Benzo(a)Anthracene	3.210	3.223	-0.013	445638	20.0000	16.0
13 Chrysene	3.350	3.390	-0.040	78927	20.0000	20.0
14 Benzo(b)Fluoranthene	3.867	3.890	-0.023	422971	20.0000	18.2
15 Benzo(k)Fluoranthene	4.143	4.043	0.100	575376	20.0000	11.3
16 Benzo(a)Pyrene	4.317	4.220	0.097	566488	20.0000	12.9

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.600	4.527	0.073	337407	20.0000	20.3
18 Benzo(g,h,i)Perylene	4.750	4.673	0.077	300261	20.0000	21.1
19 Indeno(1,2,3-c,d)Pyrene	4.943	4.837	0.106	95470	20.0000	20.8

Data File: /var/chem/hplc1.i/031112f.b/h0005685.d
Date : 12-NOV-2003 09:50
Client ID: 1112STD08
Sample Info: 1112STD08
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000654



Gulf Coast Analytical Laboratories, Inc.

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 1112PNAICV
Level: LOW
Data Type: LC DATA
SpikeList File: ICV.spk
Sublist File: all.sub
Method File: /var/chem/hplc1.i/031112f.b/flpnafld.m
Misc Info: 3-47-8

Client SDG:
Fraction: OTHER
Client Smp ID: 1112PNAICV
Operator: jdt
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	5.00	5.36	107.20	80-120
3 1-Methynaphthalene	10.0	10.3	103.03	80-120
4 2-Methylnaphthalen	10.0	9.45	94.48	80-120
5 Acenaphthene	10.0	9.86	98.56	80-120
7 Phenanthrene	0.400	0.418	104.47	80-120
8 Anthracene	0.200	0.209	104.29	80-120
9 Fluoranthene	0.500	0.486	97.13	80-120
10 Pyrene	1.00	1.03	103.22	80-120
12 Benzo(a)Anthracene	0.500	0.547	109.33	80-120
13 Chrysene	0.500	0.420	84.07	80-120
14 Benzo(b)Fluoranthe	0.200	0.190	95.15	80-120
15 Benzo(k)Fluoranthe	0.200	0.213	106.42	80-120
16 Benzo(a)Pyrene	0.500	0.533	106.59	80-120
17 Dibenzo(a,h)Anthra	2.00	2.13	106.58	80-120
18 Benzo(g,h,i)Peryle	0.800	0.906	113.27	80-120
19 Indeno(1,2,3-c,d)P	0.500	0.458	91.65	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 11 p-Terphenyl	4.00	4.44	111.08	40-140

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005693.d
Lab Smp Id: 1112PNAICV Client Smp ID: 1112PNAICV
Inj Date : 12-NOV-2003 11:02
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112PNAICV
Misc Info : 3-47-8
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: LCS
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.033	1.043	-0.010	56221	5.35978	5.36
3 1-Methynaphthalene	1.370	1.387	-0.017	22459	10.3027	10.3
4 2-Methylnaphthalene	1.453	1.473	-0.020	16785	9.44793	9.45
5 Acenaphthene	1.527	1.547	-0.020	43892	9.85577	9.86
7 Phenanthrene	1.863	1.863	0.000	6572	0.41790	0.418
8 Anthracene	2.103	2.143	-0.040	1210	0.20857	0.209
9 Fluoranthene	2.333	2.383	-0.050	2777	0.48567	0.486
10 Pyrene	2.510	2.560	-0.050	34416	1.03222	1.03
11 p-Terphenyl	2.960	3.033	-0.073	38788	4.44314	4.44(M)
12 Benzo(a)Anthracene	3.140	3.223	-0.083	15205	0.54667	0.547(M)
13 Chrysene	3.297	3.390	-0.093	1567	0.42034	0.420(M)
14 Benzo(b)Fluoranthene	3.777	3.890	-0.113	4413	0.19029	0.190
15 Benzo(k)Fluoranthene	4.020	4.043	-0.023	10828	0.21284	0.213
16 Benzo(a)Pyrene	4.197	4.220	-0.023	23462	0.53296	0.533

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.500	4.527	-0.027	35356	2.13151	2.13 (M)
18 Benzo(g,h,i)Perylene	4.647	4.673	-0.026	12875	0.90616	0.906 (M)
19 Indeno(1,2,3-c,d)Pyrene	4.807	4.837	-0.030	2100	0.45824	0.458 (M)

QC Flag Legend

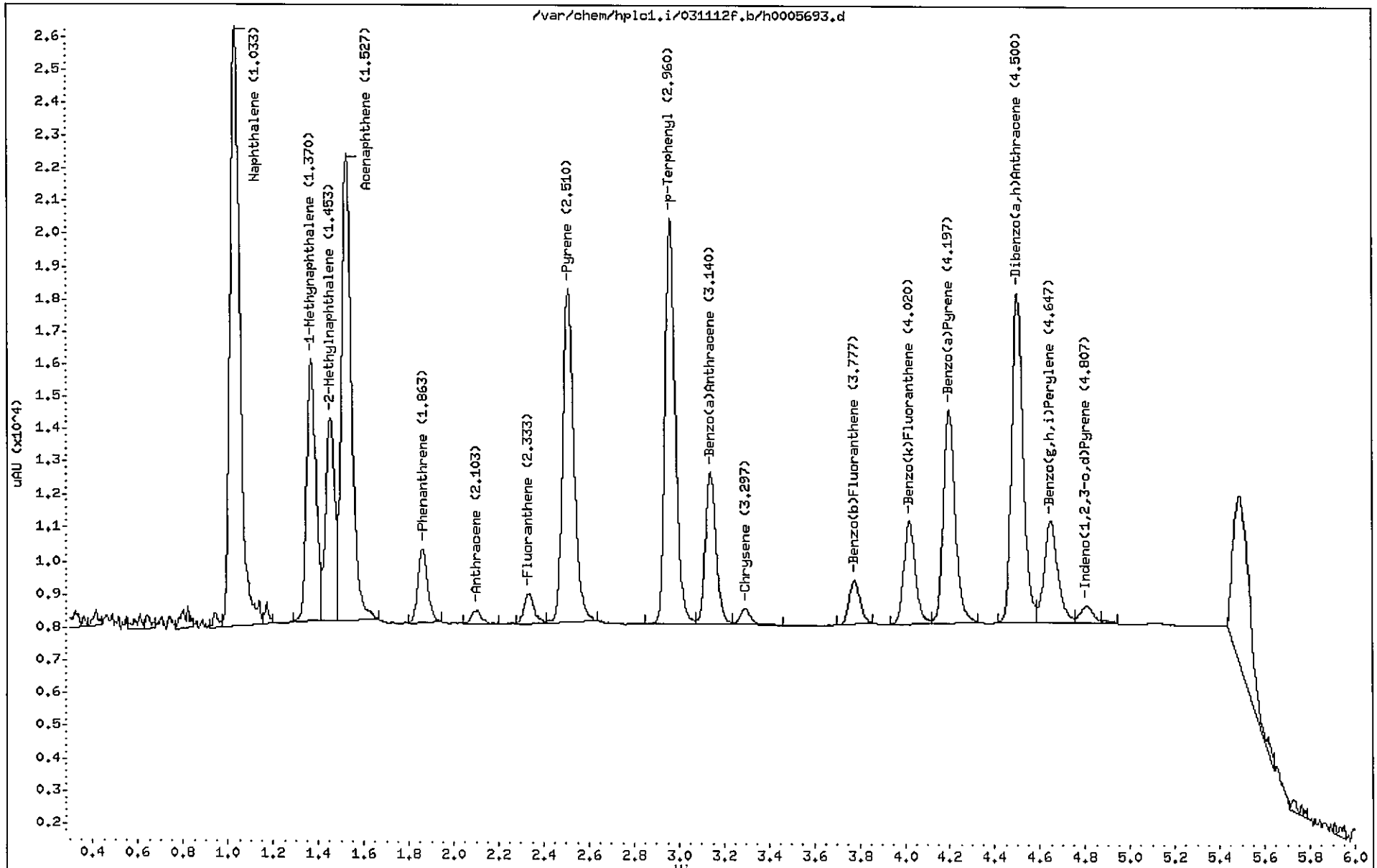
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005693.d
Date : 12-NOV-2003 11:02
Client ID: 1112PNAICV
Sample Info: 1112PNAICV
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000658



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005704.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 13:59
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.040	1.043	-0.003	26314	2.50000	2.51
3 1-Methynaphthalene	1.380	1.387	-0.007	5125	2.50000	2.35
4 2-Methylnaphthalene	1.467	1.473	-0.006	4201	2.50000	2.36
5 Acenaphthene	1.537	1.547	-0.010	10655	2.50000	2.39
7 Phenanthrene	1.883	1.863	0.020	39834	2.50000	2.53
8 Anthracene	2.133	2.143	-0.010	14194	2.50000	2.45
9 Fluoranthene	2.370	2.383	-0.013	14095	2.50000	2.47
10 Pyrene	2.547	2.560	-0.013	68773	2.50000	2.66
11 p-Terphenyl	3.017	3.033	-0.016	23422	2.50000	2.68
12 Benzo(a)Anthracene	3.203	3.223	-0.020	75518	2.50000	2.72
13 Chrysene	3.370	3.390	-0.020	9497	2.50000	2.53
14 Benzo(b)Fluoranthene	3.870	3.890	-0.020	57845	2.50000	2.49
15 Benzo(k)Fluoranthene	4.127	4.043	0.084	129714	2.50000	2.55
16 Benzo(a)Pyrene	4.300	4.220	0.080	111792	2.50000	2.54

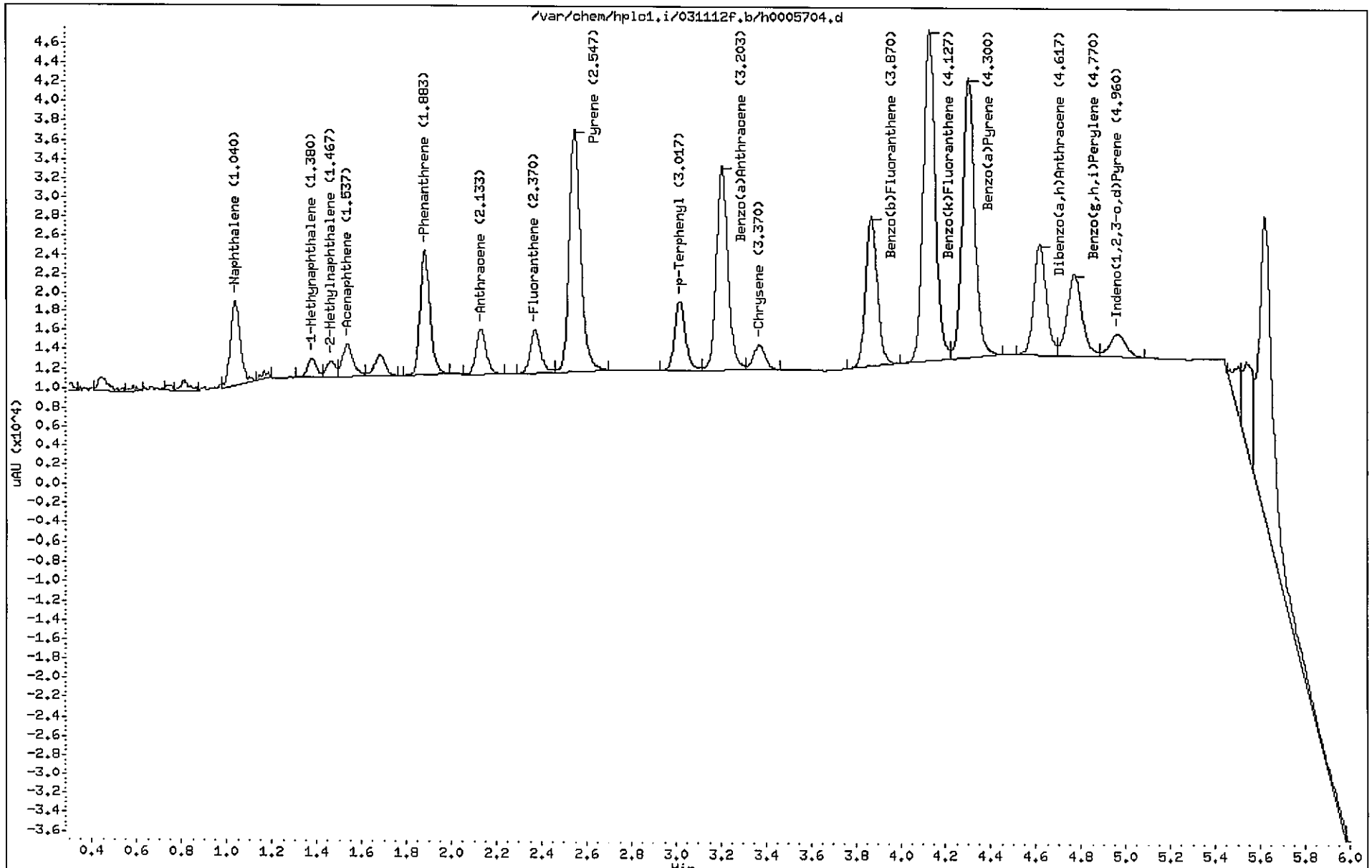
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.617	4.527	0.090	44498	2.50000	2.68
18 Benzo(g,h,i)Perylene	4.770	4.673	0.097	39777	2.50000	2.80
19 Indeno(1,2,3-c,d)Pyrene	4.960	4.837	0.123	11981	2.50000	2.61

Data File: /var/chem/hplc1.i/031112f.b/h0005704.d
Date : 12-NOV-2003 13:59
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000561



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005715.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 15:55
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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

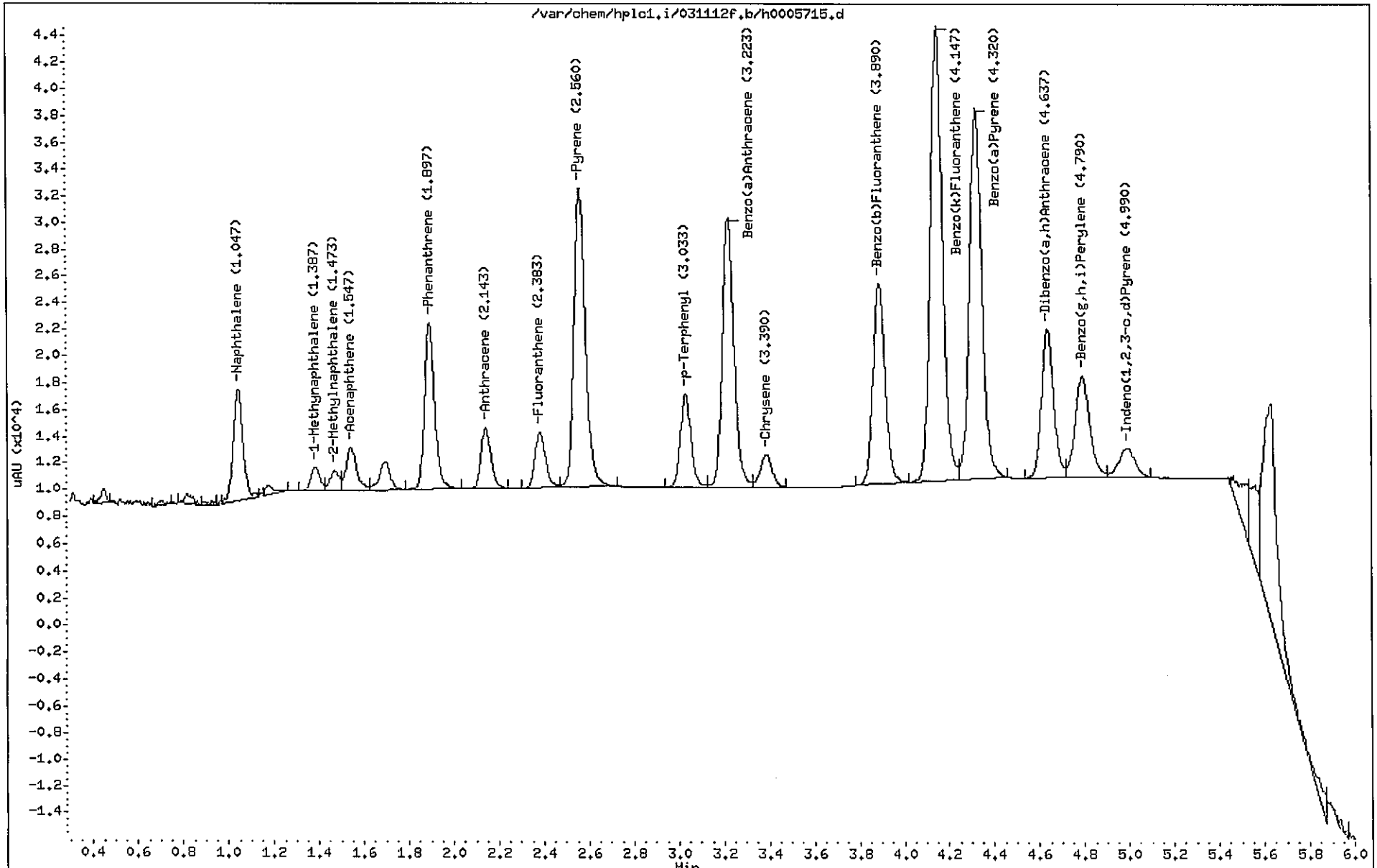
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.047	1.043	0.004	25575	2.50000	2.44
3 1-Methynaphthalene	1.387	1.387	0.000	5141	2.50000	2.36
4 2-Methylnaphthalene	1.473	1.473	0.000	4276	2.50000	2.41
5 Acenaphthene	1.547	1.547	0.000	10844	2.50000	2.43
7 Phenanthrene	1.897	1.863	0.034	38830	2.50000	2.47
8 Anthracene	2.143	2.143	0.000	14106	2.50000	2.43
9 Fluoranthene	2.383	2.383	0.000	14060	2.50000	2.46
10 Pyrene	2.560	2.560	0.000	79425	2.50000	2.38
11 p-Terphenyl	3.033	3.033	0.000	22850	2.50000	2.62
12 Benzo(a)Anthracene	3.223	3.223	0.000	71803	2.50000	2.58
13 Chrysene	3.390	3.390	0.000	8702	2.50000	2.32
14 Benzo(b)Fluoranthene	3.890	3.890	0.000	56381	2.50000	2.43
15 Benzo(k)Fluoranthene	4.147	4.043	0.104	127754	2.50000	2.51
16 Benzo(a)Pyrene	4.320	4.220	0.100	105789	2.50000	2.40

ompounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.637	4.527	0.110	41625	2.50000	2.51
18 Benzo(g,h,i)Perylene	4.790	4.673	0.117	34784	2.50000	2.45
19 Indeno(1,2,3-c,d)Pyrene	4.990	4.837	0.153	10844	2.50000	2.37

Data File: /var/chem/hplc1.i/031112f.b/h0005715.d
Date : 12-NOV-2003 15:55
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000664



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005724.d
Lab Smp Id: 1112STD05 Client Smp ID: 1112STD05
Inj Date : 12-NOV-2003 17:52
Operator : jdt Inst ID: hplc1.i
Smp Info : 1112STD05
Misc Info : 3-46-6
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 Continuing Calibration Sample
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	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	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
1 Naphthalene	1.043	1.043	0.000	27288	2.50000	2.60(M)
3 1-Methynaphthalene	1.380	1.387	-0.007	5192	2.50000	2.36
4 2-Methylnaphthalene	1.470	1.473	-0.003	4251	2.50000	2.39
5 Acenaphthene	1.540	1.547	-0.007	10594	2.50000	2.36
7 Phenanthrene	1.890	1.863	0.027	39319	2.50000	2.50
8 Anthracene	2.140	2.143	-0.003	14150	2.50000	2.44
9 Fluoranthene	2.380	2.383	-0.003	13831	2.50000	2.42
10 Pyrene	2.557	2.560	-0.003	85823	2.50000	2.57
11 p-Terphenyl	3.030	3.033	-0.003	22980	2.50000	2.63
12 Benzo(a)Anthracene	3.220	3.223	-0.003	74173	2.50000	2.67
13 Chrysene	3.390	3.390	0.000	8917	2.50000	2.38
14 Benzo(b)Fluoranthene	3.890	3.890	0.000	58119	2.50000	2.51
15 Benzo(k)Fluoranthene	4.150	4.043	0.107	130350	2.50000	2.56(M)
16 Benzo(a)Pyrene	4.323	4.220	0.103	110601	2.50000	2.51(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
17 Dibenzo(a,h)Anthracene	4.637	4.527	0.110	42624	2.50000	2.57(M)
18 Benzo(g,h,i)Perylene	4.790	4.673	0.117	36773	2.50000	2.59(M)
19 Indeno(1,2,3-c,d)Pyrene	4.987	4.837	0.150	10677	2.50000	2.33(M)

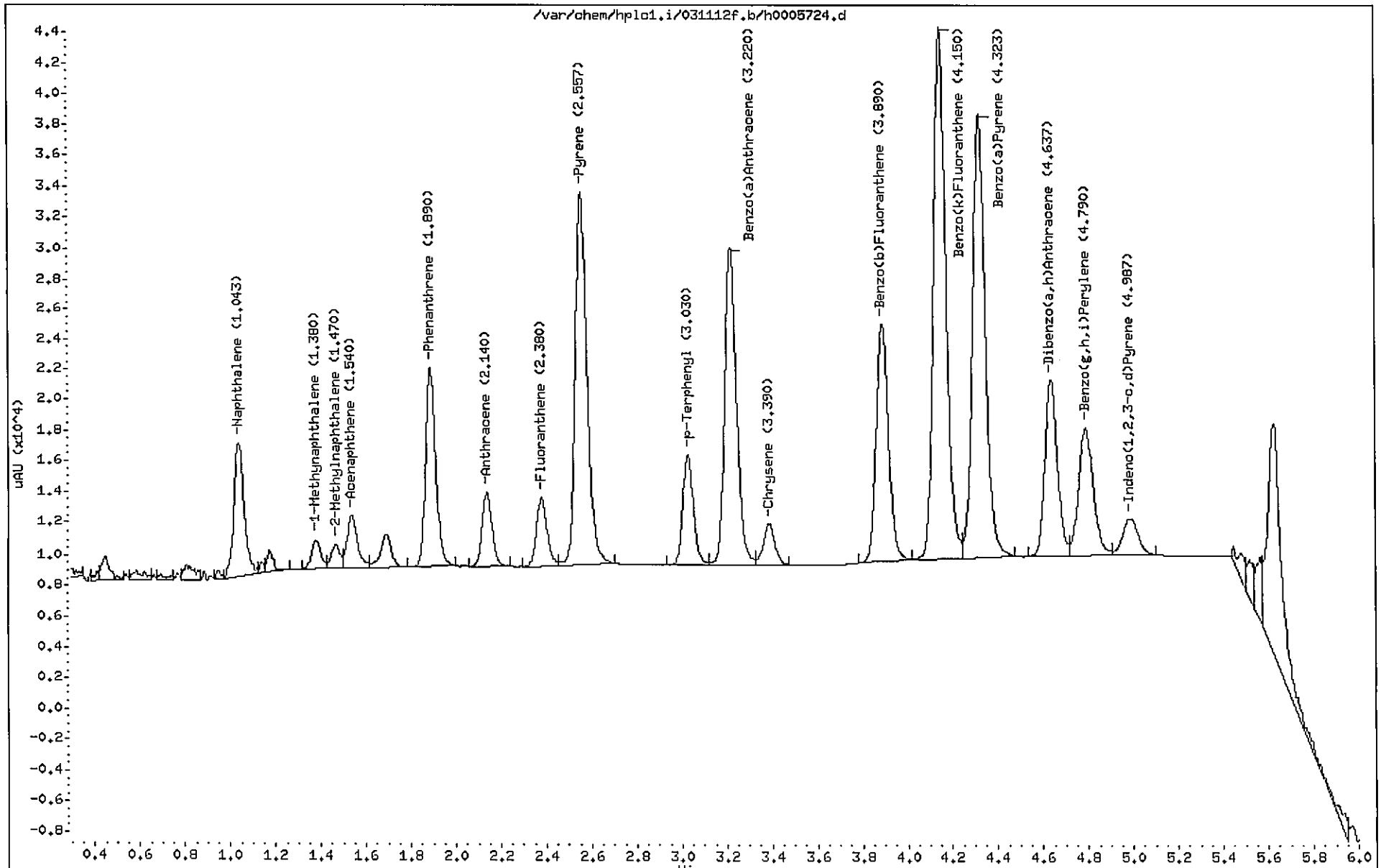
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005724.d
Date : 12-NOV-2003 17:52
Client ID: 1112STD05
Sample Info: 1112STD05
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000697



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005677.d
Lab Smp Id: 128899 Client Smp ID: 128899
Inj Date : 10-NOV-2003 15:17
Operator : jdt Inst ID: hplc1.i
Smp Info : 128899-DL1
Misc Info : 1108BLK01
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: BLANK
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

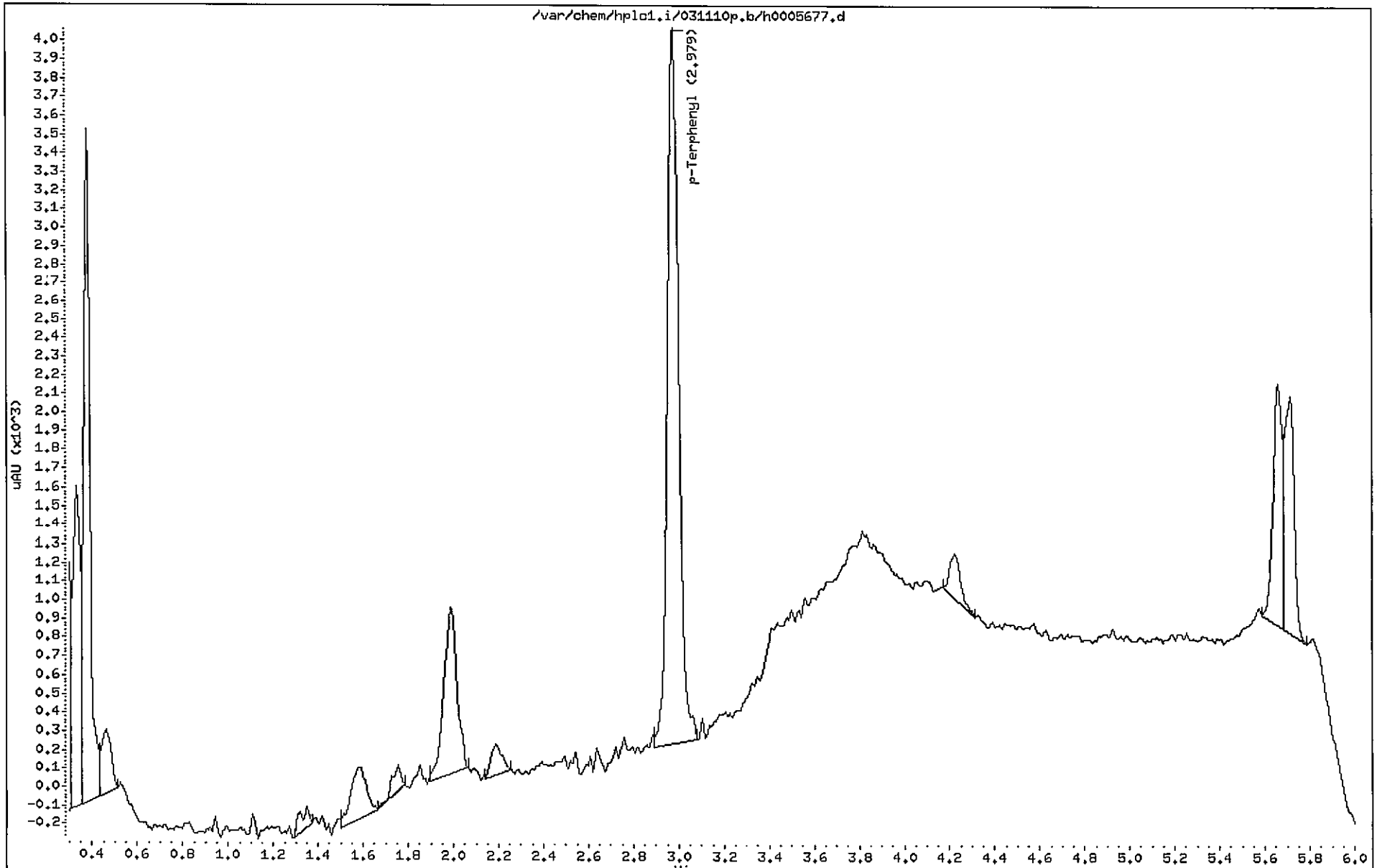
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	2.979	3.013	-0.034	13204	1.95160	1.95

Data File: /var/chem/hplc1.i/031110p.b/h0005677.d
Date : 10-NOV-2003 15:17
Client ID: 128899
Sample Info: 128899-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000669



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005677.d
Lab Smp Id: 128899 Client Smp ID: 128899
Inj Date : 10-NOV-2003 15:17
Operator : jdt Inst ID: hplc1.i
Smp Info : 128899-DL1
Misc Info : 1108BLK01
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: BLANK
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

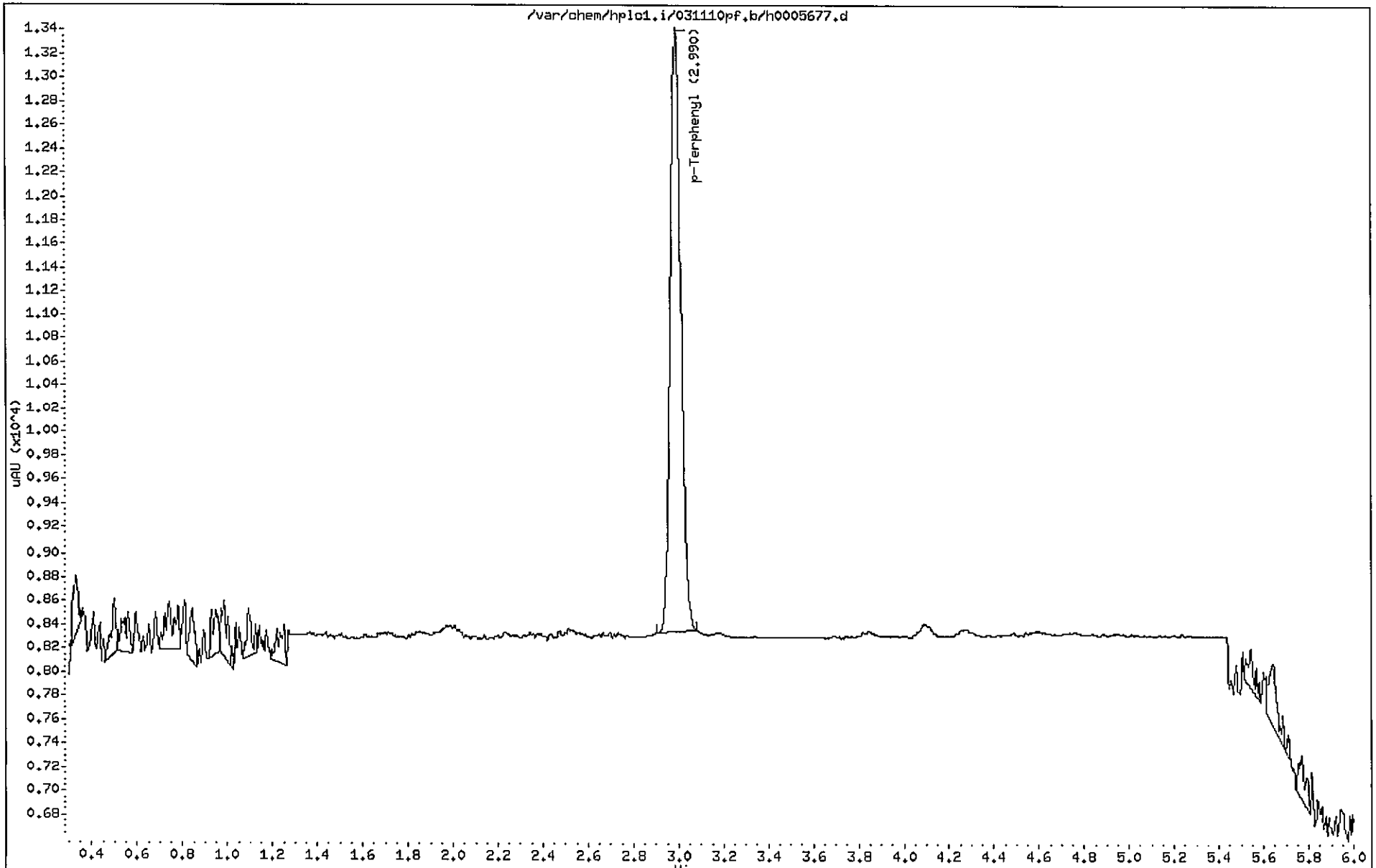
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
11 p-Terphenyl	2.990	3.027	-0.037	16525	1.80881	1.81

Data File: /var/chem/hplc1.i/031110pf.b/h0005677.d
Date : 10-NOV-2003 15:17
Client ID: 128899
Sample Info: 128899-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000671



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005694.d
Lab Smp Id: 129800 Client Smp ID: 129800
Inj Date : 12-NOV-2003 11:53
Operator : jdt Inst ID: hplc1.i
Smp Info : 129800-DL1
Misc Info : 1111SBLK01
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: BLANK
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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

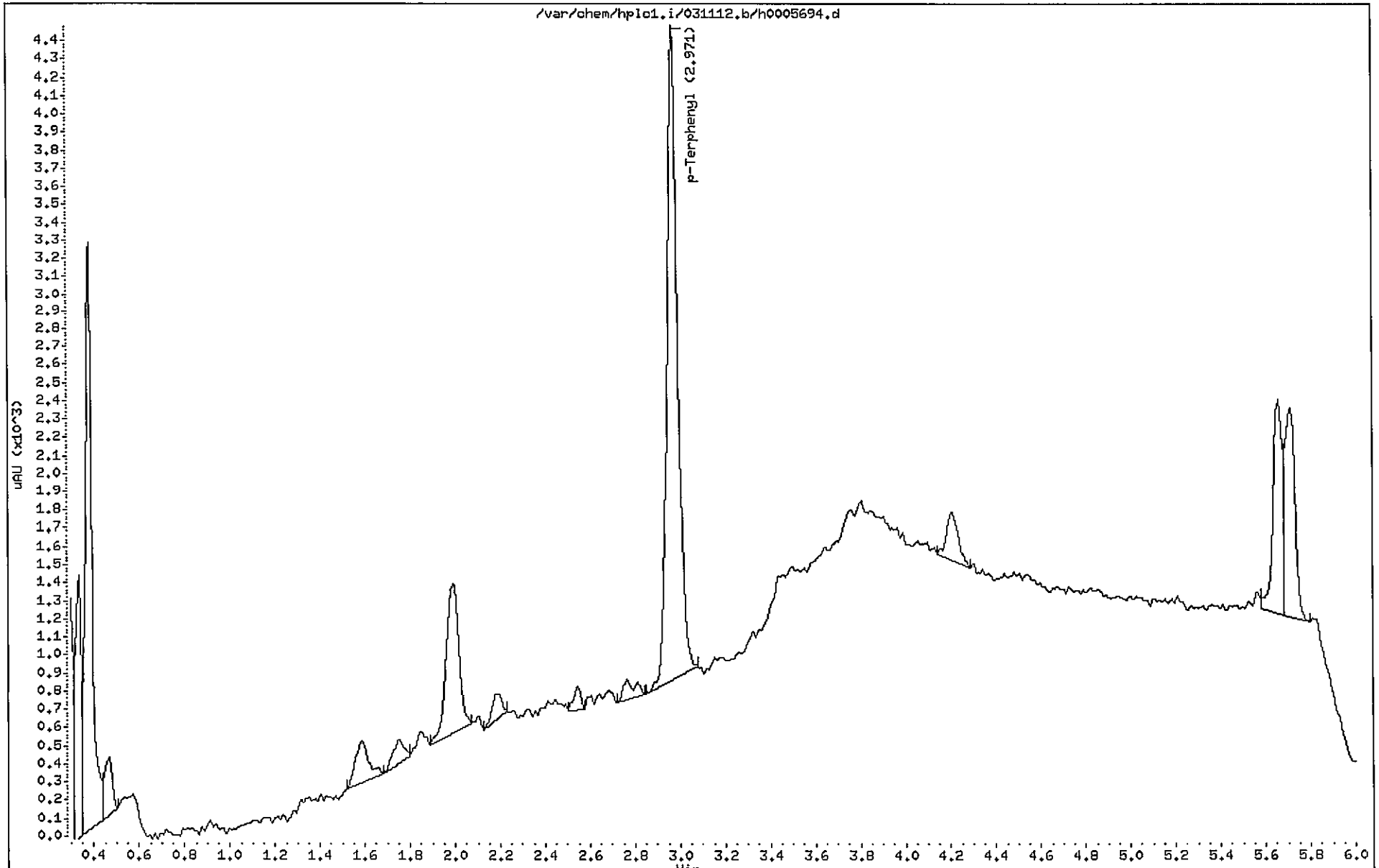
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
11 p-Terphenyl	2.971	3.018	-0.047	11944	1.70644	56.9

Data File: /var/chem/hplc1.i/031112.b/h0005694.d
Date : 12-NOV-2003 11:53
Client ID: 129800
Sample Info: 129800-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000573



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005694.d
Lab Smp Id: 129800 Client Smp ID: 129800
Inj Date : 12-NOV-2003 11:53
Operator : jdt Inst ID: hplc1.i
Smp Info : 129800-DL1
Misc Info : 1111SBLK01
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: BLANK
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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

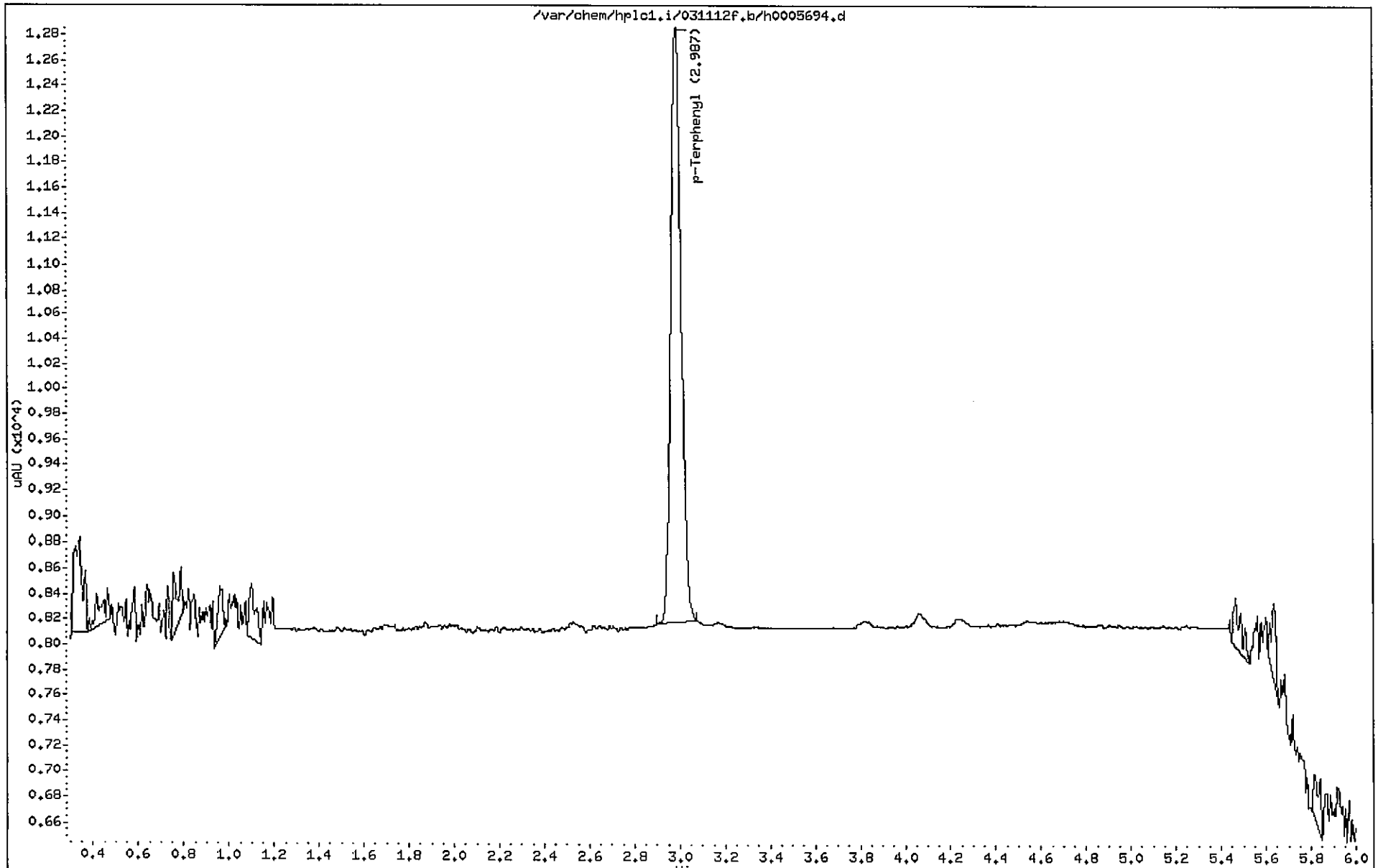
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
11 p-Terphenyl	2.987	3.033	-0.046	14745	1.68912	56.3

Data File: /var/chem/hplc1.i/031112f.b/h0005694.d
Date : 12-NOV-2003 11:53
Client ID: 129800
Sample Info: 129800-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000675



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005678.d
Lab Smp Id: 128900 Client Smp ID: 128900
Inj Date : 10-NOV-2003 15:24
Operator : jdt Inst ID: hplc1.i
Smp Info : 128900-DL1
Misc Info : 1108LCS01
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCS
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.029	1.026	0.003	13946	5.79806	5.80
2 Acenaphthylene	1.242	1.246	-0.004	7417	4.53462	4.53
3 1-Methynaphthalene	1.369	1.373	-0.004	13291	9.64815	9.65
4 2-Methylnaphthalene	1.456	1.455	0.001	17472	8.79763	8.80
5 Acenaphthene	1.522	1.528	-0.006	8752	8.73593	8.74
6 Fluorene	1.636	1.635	0.001	10093	0.89109	0.891
7 Phenanthrene	1.876	1.879	-0.003	9426	0.36389	0.364
8 Anthracene	2.123	2.126	-0.003	10428	0.18905	0.189
9 Fluoranthene	2.369	2.366	0.003	3080	0.42975	0.430
10 Pyrene	2.542	2.539	0.003	5000	0.87004	0.870
11 p-Terphenyl	3.016	3.013	0.003	12362	1.82715	1.83
12 Benzo(a)Anthracene	3.209	3.199	0.010	7507	0.46889	0.469
13 Chrysene	3.376	3.373	0.003	12383	0.47737	0.477
14 Benzo(b)Fluoranthene	3.876	3.872	0.004	4347	0.21610	0.216(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.136	4.133	0.003	2645	0.21525	0.215
16 Benzo(a)Pyrene	4.309	4.306	0.003	8449	0.47580	0.476
17 Dibenzo(a,h)Anthracene	4.622	4.619	0.003	5937	1.34938	1.35
18 Benzo(g,h,i)Perylene	4.776	4.778	-0.002	4531	0.62855	0.629
19 Indeno(1,2,3-c,d)Pyrene	4.982	4.985	-0.003	6321	0.41487	0.415

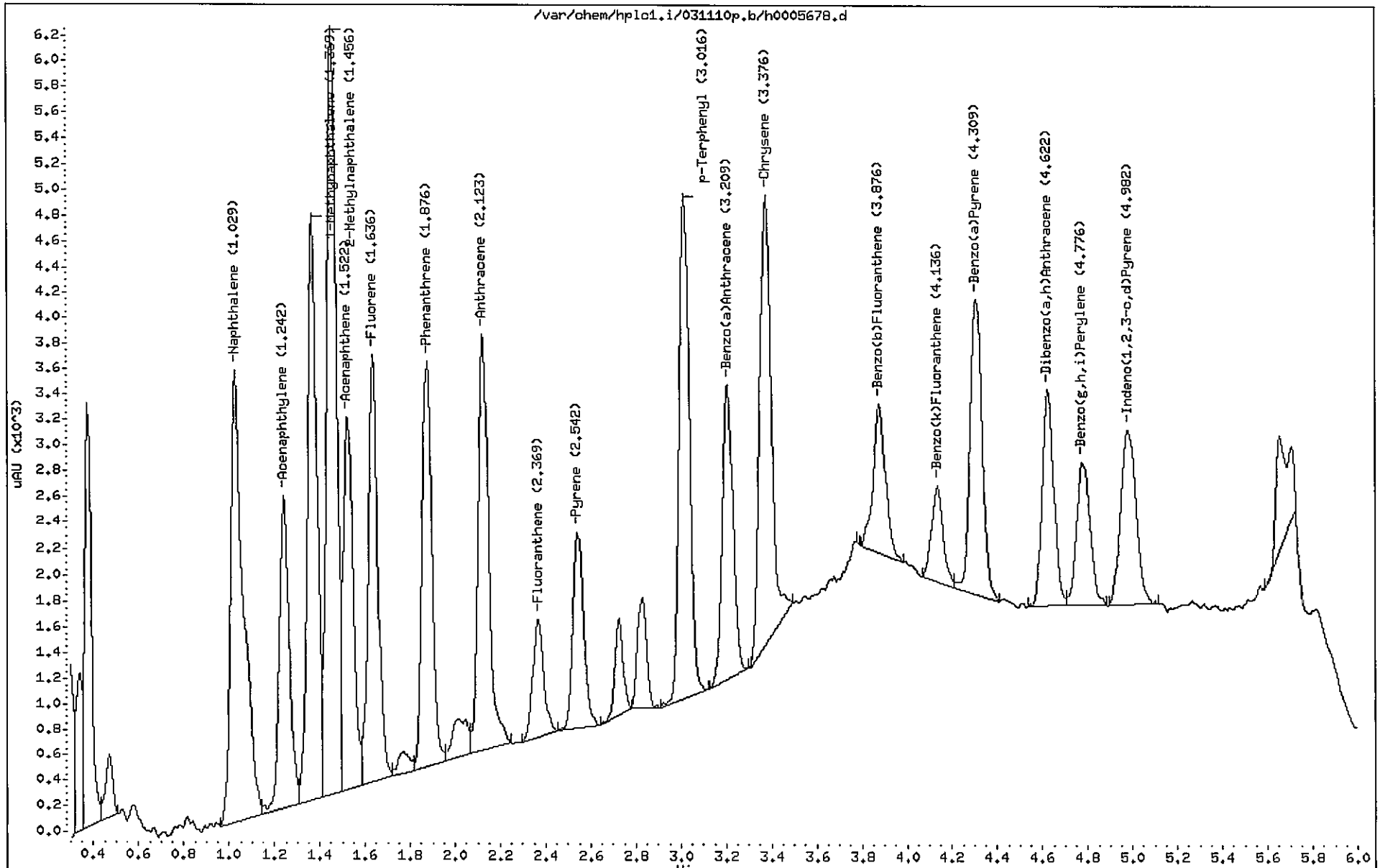
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031110p.b/h0005678.d
Date : 10-NOV-2003 15:24
Client ID: 128900
Sample Info: 128900-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

0005678



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005678.d
Lab Smp Id: 128900 Client Smp ID: 128900
Inj Date : 10-NOV-2003 15:24
Operator : jdt Inst ID: hplc1.i
Smp Info : 128900-DL1
Misc Info : 1108LCS01
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCS
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1	Naphthalene	1.043	1.043	0.000	44254	3.92316	3.92
3	1-Methynaphthalene	1.383	1.383	0.000	11880	8.56338	8.56(M)
4	2-Methylnaphthalene	1.467	1.470	-0.003	10167	7.59315	7.59
5	Acenaphthene	1.540	1.543	-0.003	33156	8.27625	8.28
7	Phenanthrene	1.890	1.890	0.000	5743	0.35843	0.358
8	Anthracene	2.140	2.137	0.003	902	0.15947	0.159
9	Fluoranthene	2.383	2.380	0.003	2380	0.43138	0.431
10	Pyrene	2.560	2.557	0.003	29606	0.86310	0.863
11	p-Terphenyl	3.030	3.027	0.003	16932	1.85340	1.85(M)
12	Benzo(a)Anthracene	3.220	3.213	0.007	13725	0.49380	0.494(M)
13	Chrysene	3.387	3.383	0.004	1358	0.33866	0.339(M)
14	Benzo(b)Fluoranthene	3.890	3.883	0.007	4476	0.18955	0.190
15	Benzo(k)Fluoranthene	4.147	4.143	0.004	11130	0.21337	0.213
16	Benzo(a)Pyrene	4.320	4.317	0.003	20913	0.47420	0.474

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.637	4.630	0.007	27226	1.56079	1.56(M)
18 Benzo(g,h,i)Perylene	4.793	4.787	0.006	11229	0.74609	0.746(M)
19 Indeno(1,2,3-c,d)Pyrene	4.990	4.983	0.007	1798	0.38222	0.382(M)

QC Flag Legend

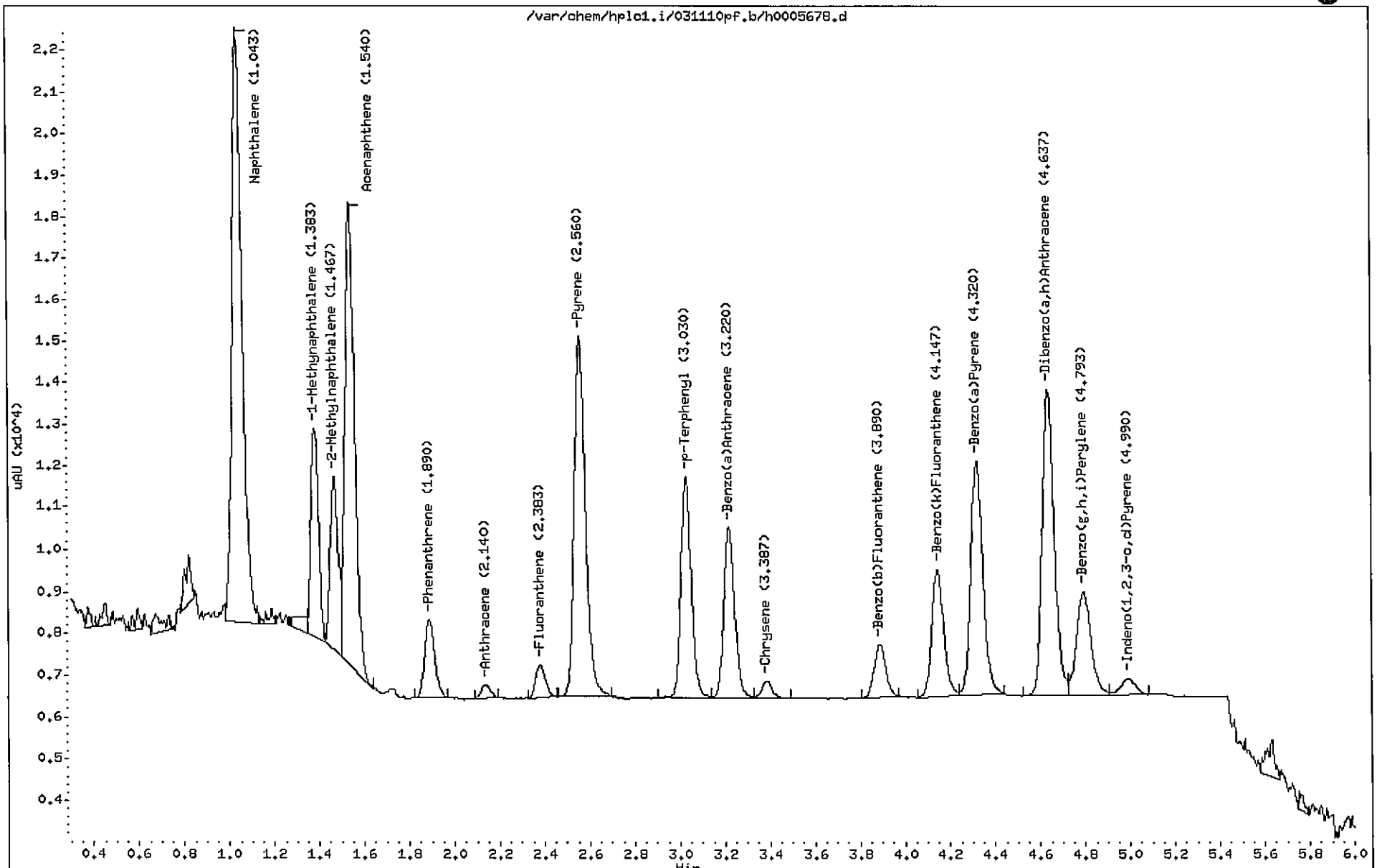
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031110pf.b/h0005678.d
Date : 10-NOV-2003 15:24
Client ID: 128900
Sample Info: 128900-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000681



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110p.b/h0005679.d
Lab Smp Id: 128901 Client Smp ID: 128901
Inj Date : 10-NOV-2003 15:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 128901-DL1
Misc Info : 1108LCSD01
Comment :
Method : /var/chem/hplc1.i/031110p.b/flpnauv.m
Meth Date : 10-Nov-2003 15:32 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCSD
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.022	1.026	-0.004	14639	6.08618	6.09
2 Acenaphthylene	1.236	1.246	-0.010	7543	4.61165	4.61
3 1-Methynaphthalene	1.356	1.373	-0.017	13235	9.60750	9.61
4 2-Methylnaphthalene	1.442	1.455	-0.013	16690	8.40387	8.40
5 Acenaphthene	1.516	1.528	-0.012	8942	8.92558	8.93
6 Fluorene	1.622	1.635	-0.013	10678	0.94274	0.943
7 Phenanthrene	1.856	1.879	-0.023	9779	0.37751	0.378
8 Anthracene	2.096	2.126	-0.030	11845	0.21473	0.215
9 Fluoranthene	2.336	2.366	-0.030	3360	0.46881	0.469
10 Pyrene	2.509	2.539	-0.030	5040	0.87700	0.877
11 p-Terphenyl	2.962	3.013	-0.051	12218	1.80587	1.81
12 Benzo(a)Anthracene	3.149	3.199	-0.050	7373	0.46052	0.461
13 Chrysene	3.309	3.373	-0.064	11373	0.43844	0.438
14 Benzo(b)Fluoranthene	3.789	3.872	-0.083	4922	0.24464	0.245(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
15 Benzo(k)Fluoranthene	4.029	4.133	-0.104	2245	0.18270	0.183(M)
16 Benzo(a)Pyrene	4.209	4.306	-0.097	8644	0.48678	0.487(M)
17 Dibenzo(a,h)Anthracene	4.516	4.619	-0.103	6523	1.48266	1.48(M)
18 Benzo(g,h,i)Perylene	4.662	4.778	-0.116	5026	0.69732	0.697(M)
19 Indeno(1,2,3-c,d)Pyrene	4.829	4.985	-0.156	6747	0.44287	0.443(M)

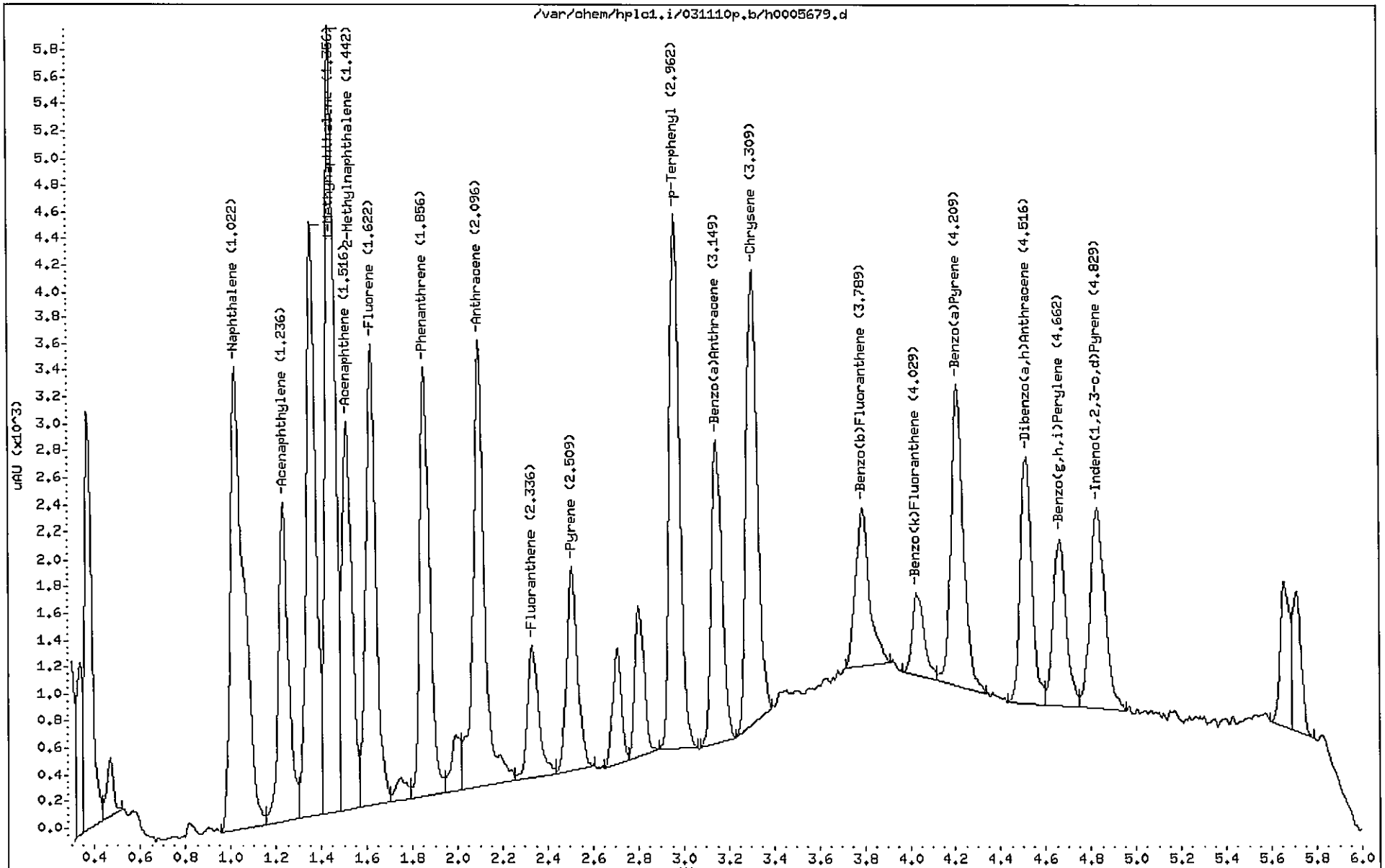
QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031110p.b/h0005679.d
Date : 10-NOV-2003 15:31
Client ID: 128901
Sample Info: 128901-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000684



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031110pf.b/h0005679.d
Lab Smp Id: 128901 Client Smp ID: 128901
Inj Date : 10-NOV-2003 15:31
Operator : jdt Inst ID: hplc1.i
Smp Info : 128901-DL1
Misc Info : 1108LCSD01
Comment :
Method : /var/chem/hplc1.i/031110pf.b/flpnafld.m
Meth Date : 12-Nov-2003 08:46 jdt Quant Type: ESTD
Cal Date : 03-OCT-2003 07:49 Cal File: h0005401.d
Als bottle: 1 QC Sample: LCSD
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	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)
1 Naphthalene	1.030	1.043	-0.013	45318	4.01750	4.02
3 1-Methynaphthalene	1.373	1.383	-0.010	9558	6.88919	6.89
4 2-Methylnaphthalene	1.457	1.470	-0.013	9351	6.98403	6.98
5 Acenaphthene	1.530	1.543	-0.013	32447	8.09948	8.10
7 Phenanthrene	1.870	1.890	-0.020	5767	0.35993	0.360
8 Anthracene	2.110	2.137	-0.027	817	0.14451	0.145
9 Fluoranthene	2.347	2.380	-0.033	2451	0.44443	0.444
10 Pyrene	2.523	2.557	-0.034	28893	0.84231	0.842
11 p-Terphenyl	2.977	3.027	-0.050	16886	1.84839	1.85(M)
12 Benzo(a)Anthracene	3.160	3.213	-0.053	13132	0.47243	0.472(M)
13 Chrysene	3.317	3.383	-0.066	1302	0.32458	0.325(M)
14 Benzo(b)Fluoranthene	3.803	3.883	-0.080	3836	0.16248	0.162
15 Benzo(k)Fluoranthene	4.050	4.143	-0.093	9495	0.18203	0.182
16 Benzo(a)Pyrene	4.223	4.317	-0.094	19776	0.44843	0.448

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/L)
17 Dibenzo(a,h)Anthracene	4.527	4.630	-0.103	25660	1.47106	1.47(M)
18 Benzo(g,h,i)Perylene	4.673	4.787	-0.114	10473	0.69587	0.696(M)
19 Indeno(1,2,3-c,d)Pyrene	4.840	4.983	-0.143	1713	0.36426	0.364(M)

QC Flag Legend

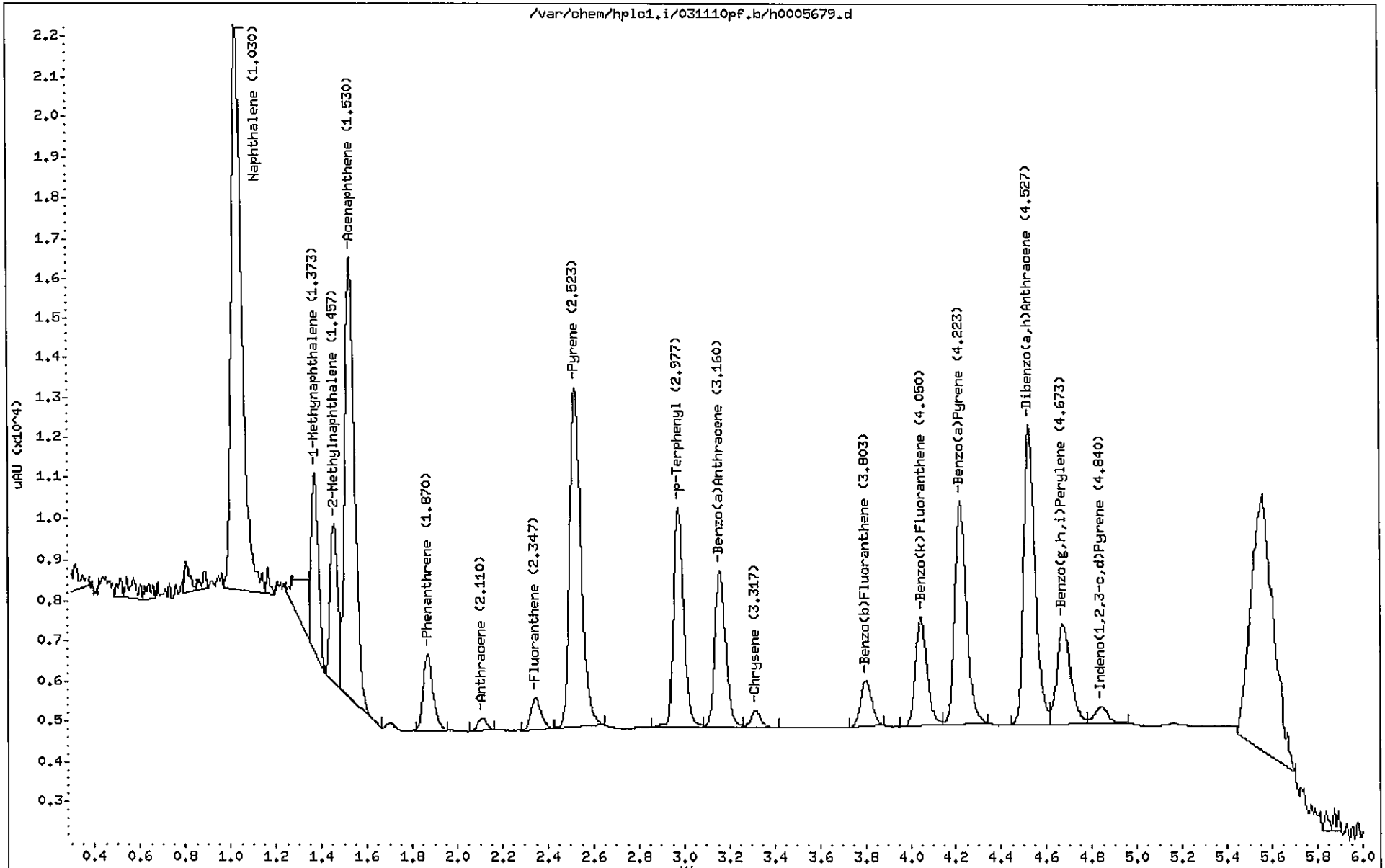
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031110pf.b/h0005679.d
Date : 10-NOV-2003 15:31
Client ID: 128901
Sample Info: 128901-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000687



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005695.d
Lab Smp Id: 129801 Client Smp ID: 129801
Inj Date : 12-NOV-2003 12:00
Operator : jdt Inst ID: hplc1.i
Smp Info : 129801-DL1
Misc Info : 1111SLCS01
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: LCS
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	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	1.006	1.031	-0.025	12936	5.29392	176
2 Acenaphthylene	1.219	1.244	-0.025	9306	5.64231	188
3 1-Methynaphthalene	1.346	1.368	-0.022	8036	5.89475	196
4 2-Methylnaphthalene	1.426	1.455	-0.029	9713	4.97697	166
5 Acenaphthene	1.499	1.522	-0.023	4676	4.99866	167
6 Fluorene	1.606	1.635	-0.029	60802	5.36522	179
7 Phenanthrene	1.839	1.878	-0.039	141978	5.48180	183
8 Anthracene	2.079	2.128	-0.049	291819	5.19277	173
9 Fluoranthene	2.312	2.368	-0.056	38081	5.21237	174
10 Pyrene	2.486	2.544	-0.058	33001	5.57919	186
11 p-Terphenyl	2.939	3.018	-0.079	14036	2.00538	66.8
12 Benzo(a)Anthracene	3.126	3.204	-0.078	85231	5.25548	175
13 Chrysene	3.279	3.377	-0.098	138759	5.29998	177
14 Benzo(b)Fluoranthene	3.766	3.878	-0.112	97881	4.84936	162

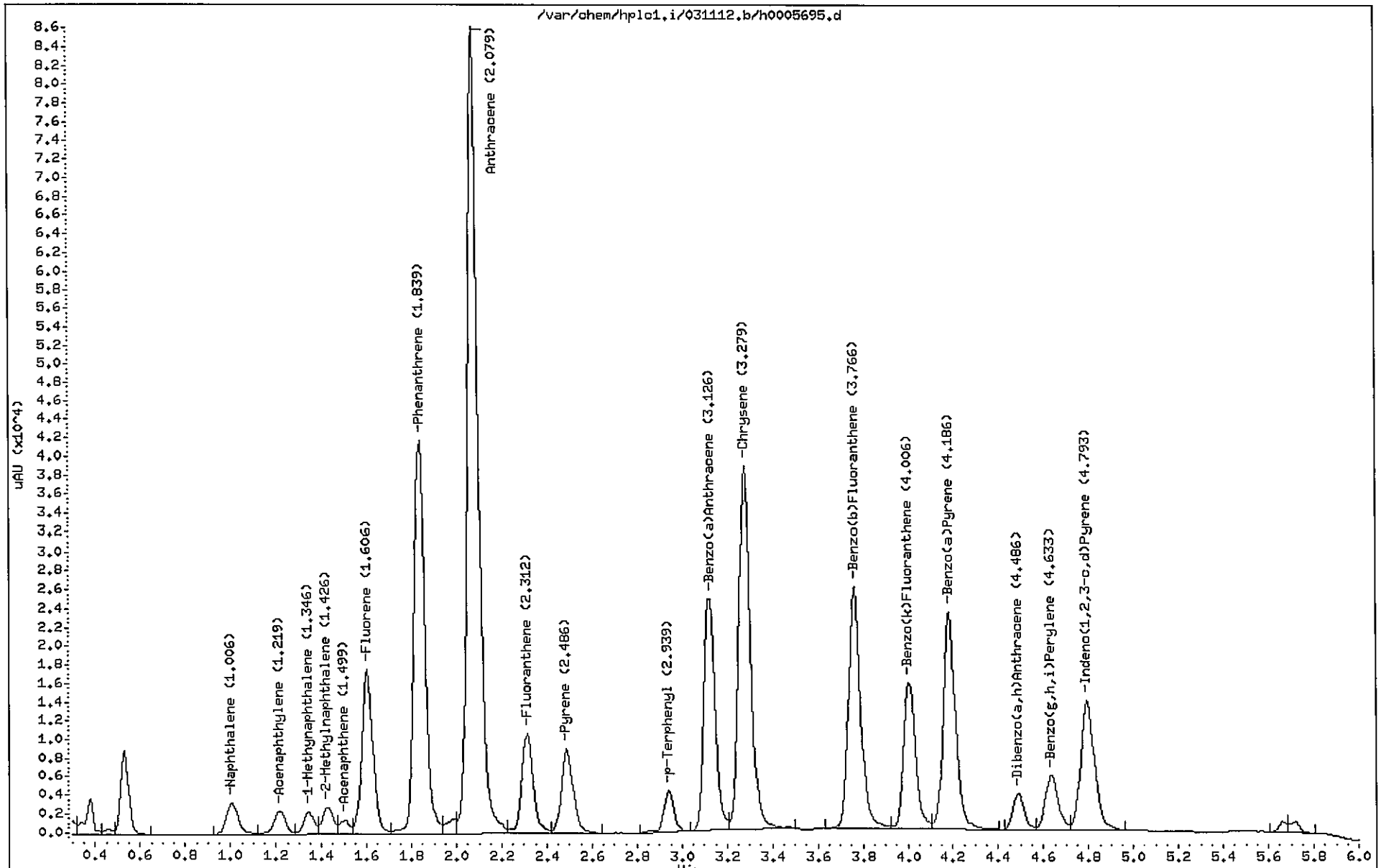
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Benzo(k)Fluoranthene	4.006	4.032	-0.026	58024	4.69890	157
16 Benzo(a)Pyrene	4.186	4.212	-0.026	88218	4.89348	163
17 Dibenzo(a,h)Anthracene	4.486	4.512	-0.026	13045	3.24233	108
18 Benzo(g,h,i)Perylene	4.633	4.658	-0.025	23032	3.52741	118
19 Indeno(1,2,3-c,d)Pyrene	4.793	4.825	-0.032	59371	4.06760	136

Data File: /var/chem/hplc1.i/031112.b/h0005695.d
Date : 12-NOV-2003 12:00
Client ID: 129801
Sample Info: 129801-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000690



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005695.d
Lab Smp Id: 129801 Client Smp ID: 129801
Inj Date : 12-NOV-2003 12:00
Operator : jdt Inst ID: hplc1.i
Smp Info : 129801-DL1
Misc Info : 1111SLCS01
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: LCS
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	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	1.020	1.043	-0.023	51634	4.92253	164
3 1-Methynaphthalene	1.360	1.387	-0.027	11065	5.07622	169
4 2-Methylnaphthalene	1.443	1.473	-0.030	7843	4.41489	147
5 Acenaphthene	1.517	1.547	-0.030	22011	4.94264	165
7 Phenanthrene	1.853	1.863	-0.010	87584	5.56931	186
8 Anthracene	2.093	2.143	-0.050	30075	5.18435	173
9 Fluoranthene	2.330	2.383	-0.053	28758	5.02950	168
10 Pyrene	2.503	2.560	-0.057	186563	5.59550	187
11 p-Terphenyl	2.957	3.033	-0.076	17432	1.99689	66.6
12 Benzo(a)Anthracene	3.137	3.223	-0.086	151602	5.45055	182
13 Chrysene	3.293	3.390	-0.097	19144	5.06941	169
14 Benzo(b)Fluoranthene	3.777	3.890	-0.113	114978	4.95800	165
15 Benzo(k)Fluoranthene	4.020	4.043	-0.023	242191	4.76055	159
16 Benzo(a)Pyrene	4.197	4.220	-0.023	214611	4.87513	163

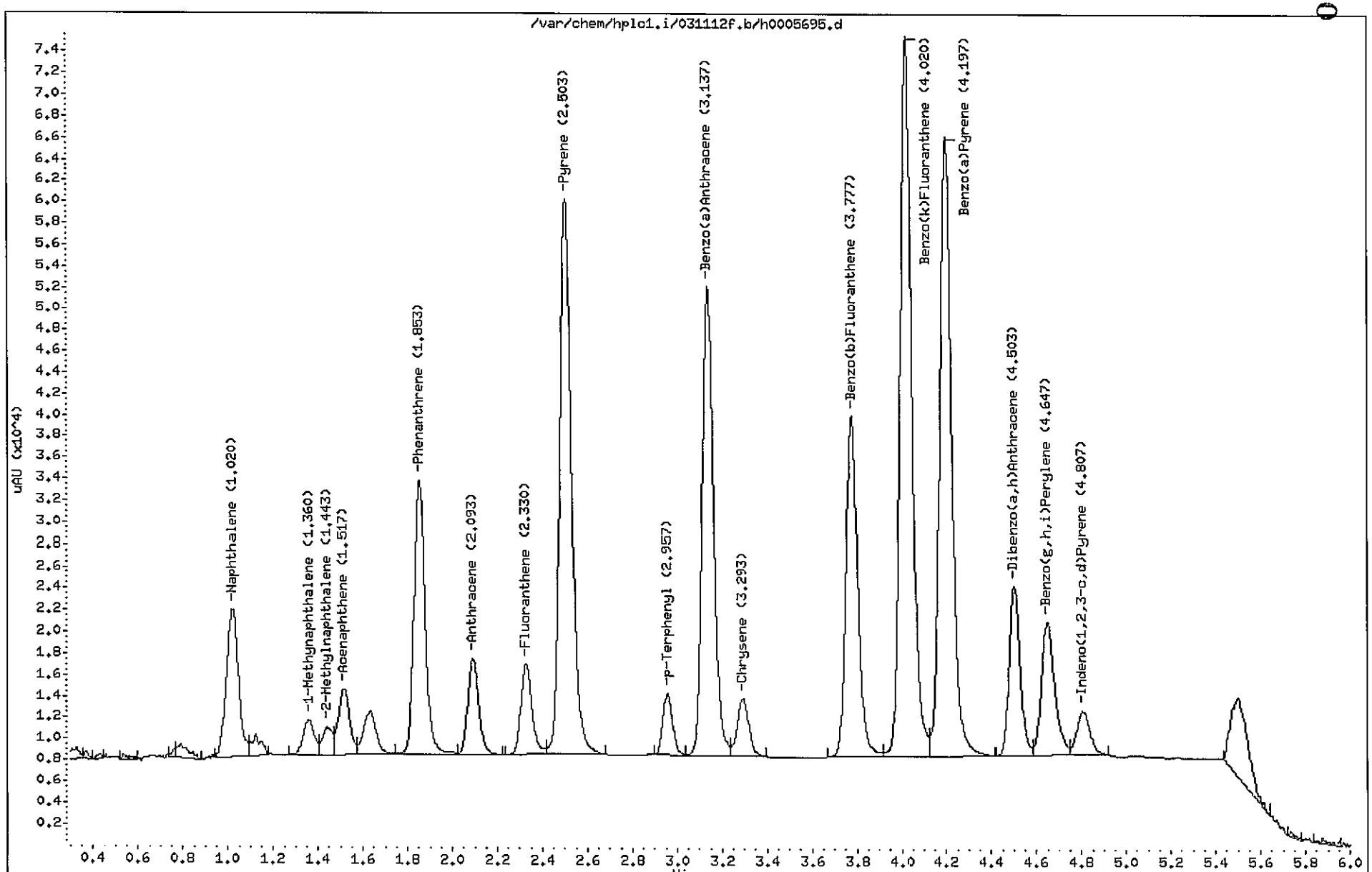
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.503	4.527	-0.024	53825	3.24500	108
18 Benzo(g,h,i)Perylene	4.647	4.673	-0.026	50796	3.57515	119
19 Indeno(1,2,3-c,d)Pyrene	4.807	4.837	-0.030	16498	3.60019	120

Data File: /var/chem/hplc1.i/031112f.b/h0005695.d
Date : 12-NOV-2003 12:00
Client ID: 129801
Sample Info: 129801-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000693



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005696.d
Lab Smp Id: 129802 Client Smp ID: 129802
Inj Date : 12-NOV-2003 12:07
Operator : jdt Inst ID: hplc1.i
Smp Info : 129802-DL1
Misc Info : 1111SLCSD01
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: LCSD
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	ng unit correction factor
Vt	1000.00000	Sample Final Volume
Vo	30.00000	Initial Sample Volume
Vi	10.00000	Injection Volume

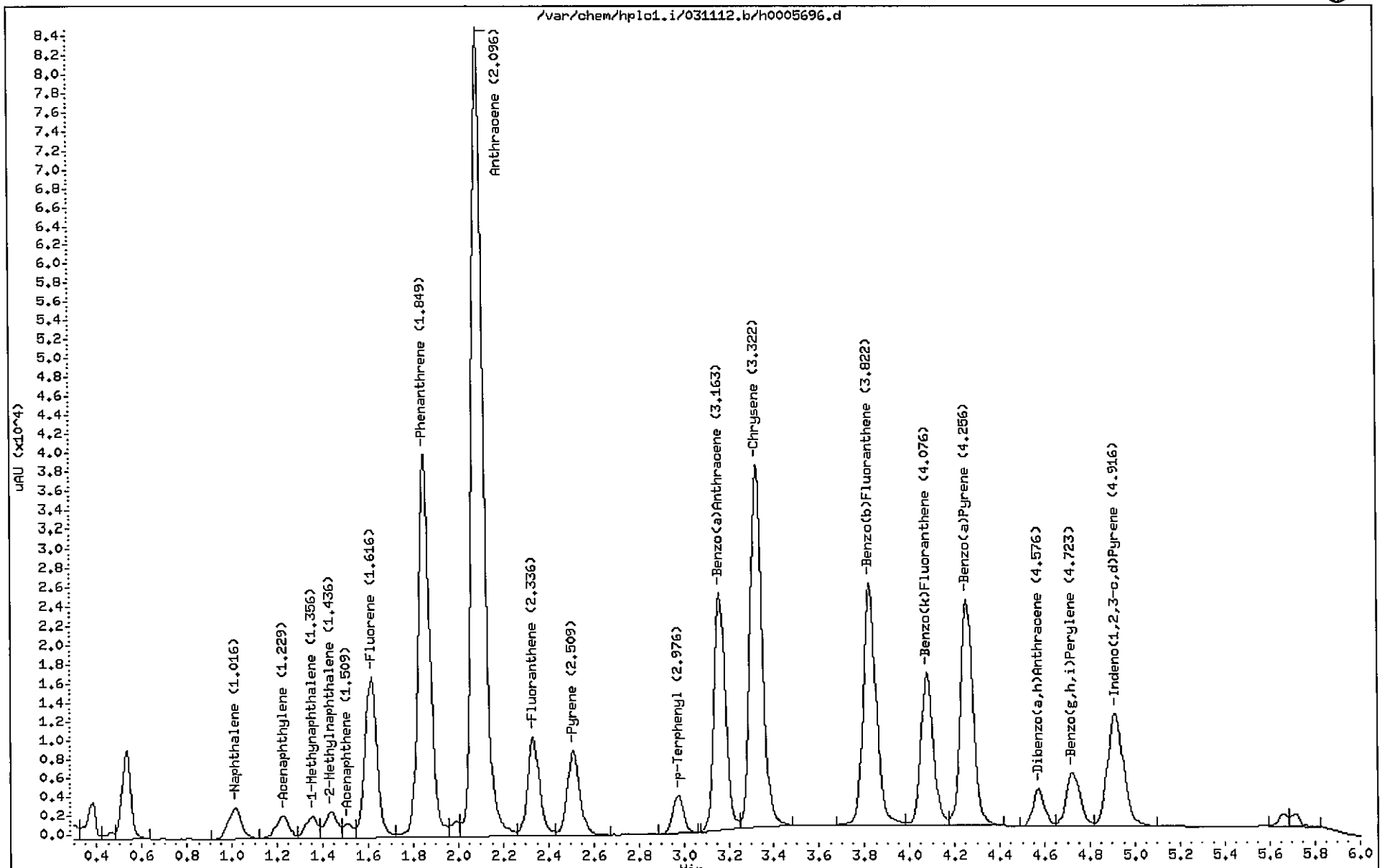
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
1 Naphthalene	1.016	1.031	-0.015	13327	5.45400	182
2 Acenaphthylene	1.229	1.244	-0.015	9608	5.82504	194
3 1-Methynaphthalene	1.356	1.368	-0.012	8284	6.07681	203
4 2-Methylnaphthalene	1.436	1.455	-0.019	10412	5.33544	178
5 Acenaphthene	1.509	1.522	-0.013	4423	4.72800	158
6 Fluorene	1.616	1.635	-0.019	63205	5.57720	186
7 Phenanthrene	1.849	1.878	-0.029	147502	5.69511	190
8 Anthracene	2.096	2.128	-0.032	303531	5.40118	180
9 Fluoranthene	2.336	2.368	-0.032	38379	5.25324	175
10 Pyrene	2.509	2.544	-0.035	34527	5.83717	195
11 p-Terphenyl	2.976	3.018	-0.042	12876	1.83960	61.3
12 Benzo(a)Anthracene	3.163	3.204	-0.041	88787	5.47471	182
13 Chrysene	3.322	3.377	-0.055	143501	5.48111	183
14 Benzo(b)Fluoranthene	3.822	3.878	-0.056	101832	5.04513	168

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Benzo(k)Fluoranthene	4.076	4.032	0.044	63230	5.12054	171
16 Benzo(a)Pyrene	4.256	4.212	0.044	93262	5.17325	172
17 Dibenzo(a,h)Anthracene	4.576	4.512	0.064	14758	3.66824	122
18 Benzo(g,h,i)Perylene	4.723	4.658	0.065	25159	3.85306	128
19 Indeno(1,2,3-c,d)Pyrene	4.916	4.825	0.091	60727	4.16054	139

Data File: /var/chem/hplc1.i/031112.b/h0005696.d
Date : 12-NOV-2003 12:07
Client ID: 129802
Sample Info: 129802-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



000696

Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005696.d
Lab Smp Id: 129802 Client Smp ID: 129802
Inj Date : 12-NOV-2003 12:07
Operator : jdt Inst ID: hplc1.i
Smp Info : 129802-DL1
Misc Info : 1111SLCSD01
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: LCSD
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	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	1.030	1.043	-0.013	51531	4.91267	164
3 1-Methynaphthalene	1.370	1.387	-0.017	11903	5.46045	182
4 2-Methylnaphthalene	1.453	1.473	-0.020	7860	4.42429	147
5 Acenaphthene	1.527	1.547	-0.020	22905	5.14334	171
7 Phenanthrene	1.867	1.863	0.004	90754	5.77087	192
8 Anthracene	2.110	2.143	-0.033	31632	5.45274	182
9 Fluoranthene	2.350	2.383	-0.033	29649	5.18537	173
10 Pyrene	2.527	2.560	-0.033	191173	5.73376	191
11 p-Terphenyl	2.990	3.033	-0.043	17639	2.02063	67.4
12 Benzo(a)Anthracene	3.177	3.223	-0.046	158583	5.70155	190
13 Chrysene	3.340	3.390	-0.050	19914	5.27040	176
14 Benzo(b)Fluoranthene	3.837	3.890	-0.053	118693	5.11822	171
15 Benzo(k)Fluoranthene	4.093	4.043	0.050	262299	5.15579	172
16 Benzo(a)Pyrene	4.270	4.220	0.050	231398	5.25647	175

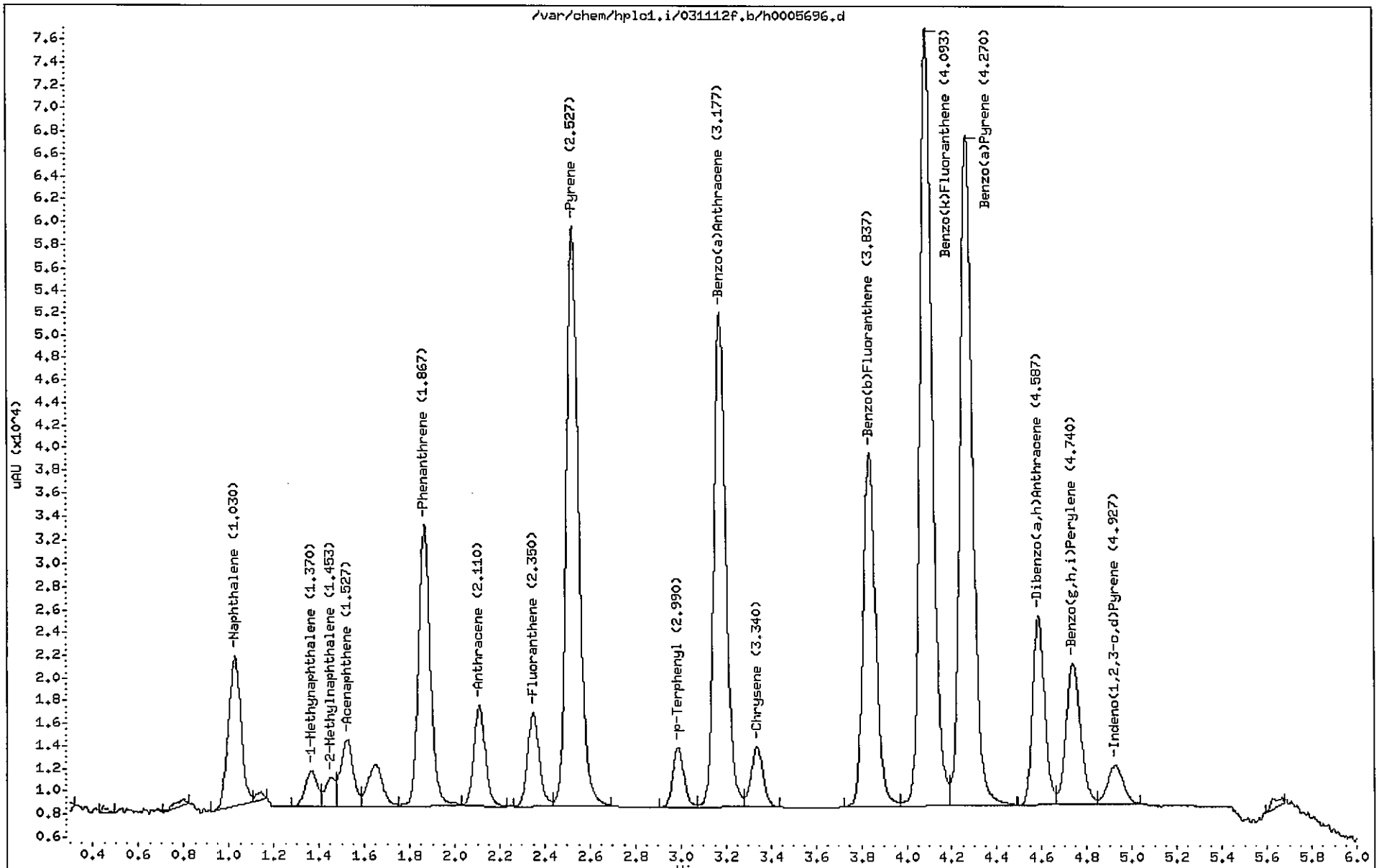
ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.587	4.527	0.060	61885	3.73092	124
18 Benzo(g,h,i)Perylene	4.740	4.673	0.067	55886	3.93335	131
19 Indeno(1,2,3-c,d)Pyrene	4.927	4.837	0.090	16364	3.57091	119

Data File: /var/chem/hplc1.i/031112f.b/h0005696.d
Date : 12-NOV-2003 12:07
Client ID: 129802
Sample Info: 129802-DL1
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000599



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005721.d
Lab Smp Id: 20311062416
Inj Date : 12-NOV-2003 17:09
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062416MS-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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	1.021	1.031	-0.010	1711	0.70019	117(M)
2 Acenaphthylene	1.234	1.244	-0.010	1507	0.91365	152(M)
3 1-Methynaphthalene	1.361	1.368	-0.007	1689	1.23892	206(M)
4 2-Methylnaphthalene	1.448	1.455	-0.007	2155	1.10423	184(M)
5 Acenaphthene	1.521	1.522	-0.001	652	0.69696	116(M)
6 Fluorene	1.621	1.635	-0.014	11862	1.04670	174(M)
7 Phenanthrene	1.854	1.878	-0.024	26400	1.01931	170
8 Anthracene	2.094	2.128	-0.034	52685	0.93750	156(M)
9 Fluoranthene	2.341	2.368	-0.027	11368	1.55600	259(R)
10 Pyrene	2.507	2.544	-0.037	12117	2.04850	341(RM)
11 p-Terphenyl	2.981	3.018	-0.037	12635	1.80517	301(RM)
12 Benzo(a)Anthracene	3.161	3.204	-0.043	20160	1.24309	207(M)
13 Chrysene	3.321	3.377	-0.056	33559	1.28180	214(M)
14 Benzo(b)Fluoranthene	3.814	3.878	-0.064	20377	1.00955	168(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Benzo(k)Fluoranthene	4.067	4.032	0.035	11604	0.93971	157(M)
16 Benzo(a)Pyrene	4.241	4.212	0.029	15566	0.86344	144(M)
17 Dibenzo(a,h)Anthracene	4.541	4.512	0.029	5591	1.38967	232(M)
18 Benzo(g,h,i)Perylene	4.654	4.658	-0.004	4684	0.71733	120(M)
19 Indeno(1,2,3-c,d)Pyrene	4.888	4.825	0.063	13455	0.92182	154(M)

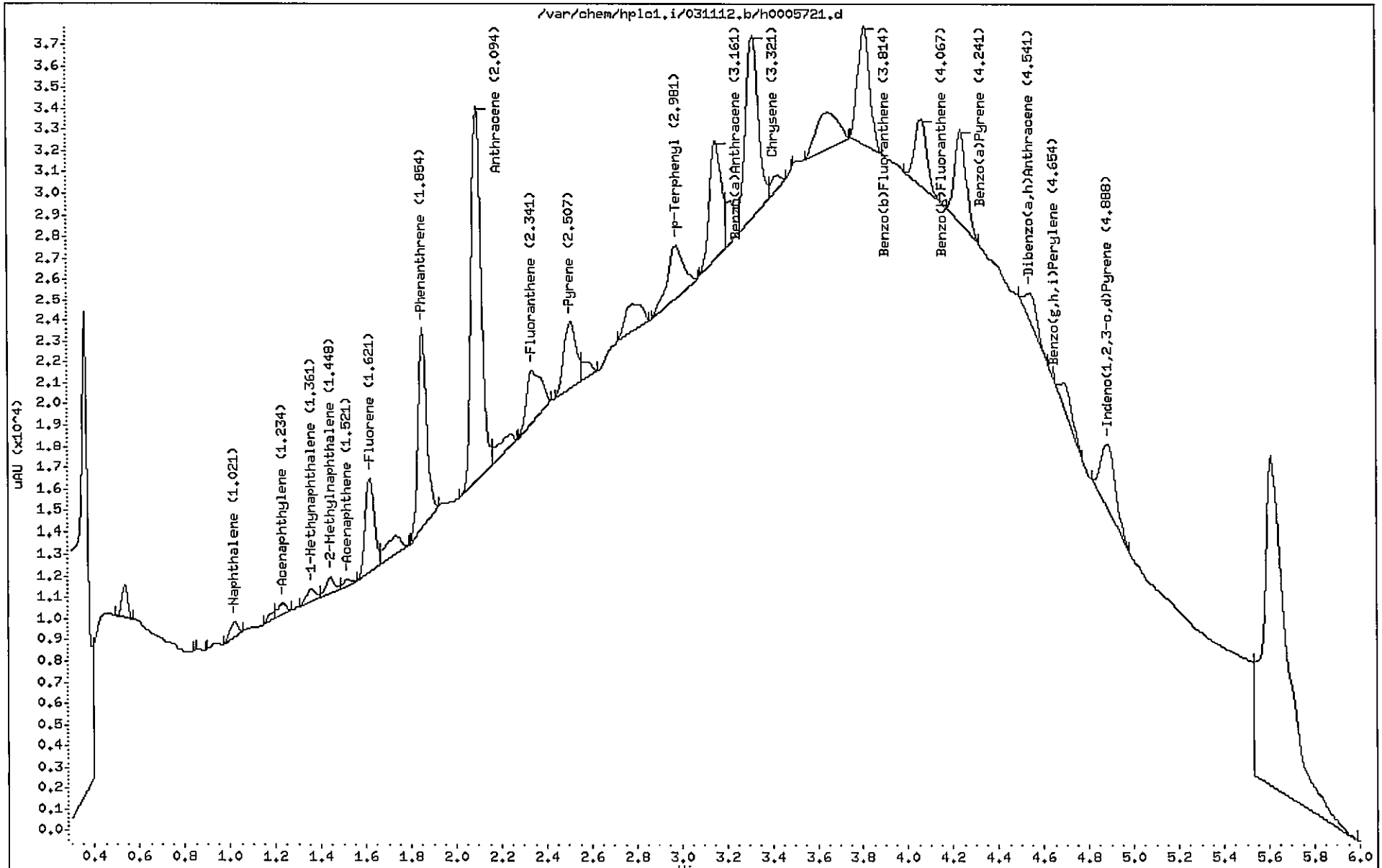
QC Flag Legend

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

Data File: /var/chem/hplc1.i/031112.b/h0005721.d
Date : 12-NOV-2003 17:09
Client ID:
Sample Info: 20311062416MS-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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

000702



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005721.d
Lab Smp Id: 20311062416
Inj Date : 12-NOV-2003 17:09
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062416MS-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Vials bottle: 1 QC Sample: MS
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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	1.047	1.043	0.004	2933	0.27962	46.6(RM)
3 1-Methynaphthalene	1.377	1.387	-0.010	2792	1.28079	213(M)
4 2-Methylnaphthalene	1.467	1.473	-0.006	2034	1.14490	191(M)
5 Acenaphthene	1.530	1.547	-0.017	5537	1.24331	207(M)
7 Phenanthrene	1.870	1.863	0.007	17077	1.08589	181(M)
8 Anthracene	2.110	2.143	-0.033	5284	0.91083	152
9 Fluoranthene	2.347	2.383	-0.036	5723	1.00089	167(M)
10 Pyrene	2.523	2.560	-0.037	34082	1.02220	170
11 p-Terphenyl	2.987	3.033	-0.046	3799	0.43517	72.5(M)
12 Benzo(a)Anthracene	3.170	3.223	-0.053	27287	0.98107	164(M)
13 Chrysene	3.333	3.390	-0.057	3687	0.98760	165(M)
14 Benzo(b)Fluoranthene	3.827	3.890	-0.063	24155	1.04159	174
15 Benzo(k)Fluoranthene	4.080	4.043	0.037	54231	1.06597	178
16 Benzo(a)Pyrene	4.257	4.220	0.037	43685	0.99235	165

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.570	4.527	0.043	19332	1.16547	194
18 Benzo(g,h,i)Perylene	4.723	4.673	0.050	17513	1.23259	205
19 Indeno(1,2,3-c,d)Pyrene	4.887	4.837	0.050	5858	1.27827	213

QC Flag Legend

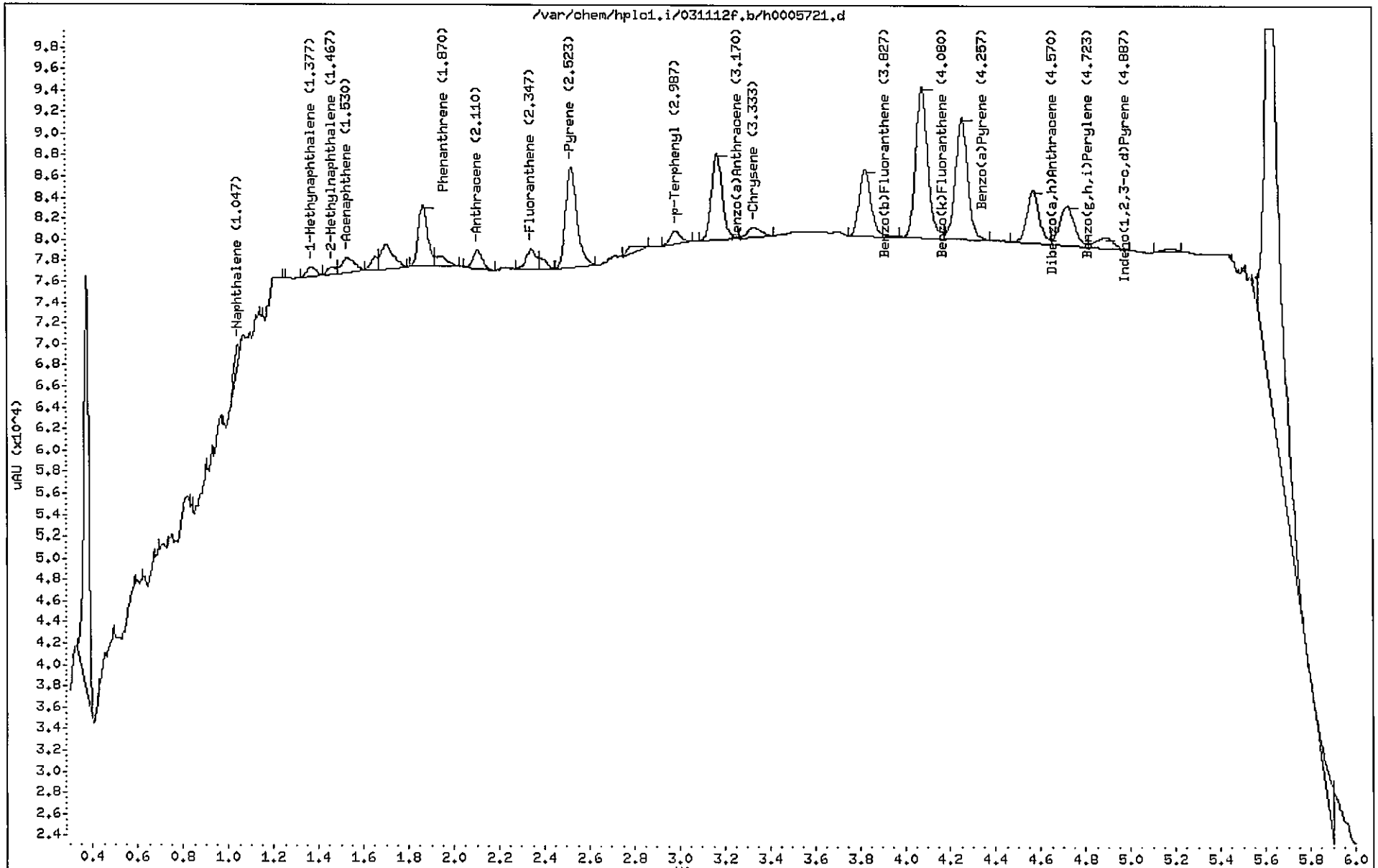
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005721.d
Date : 12-NOV-2003 17:09
Client ID:
Sample Info: 20311062416HS-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000705



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112.b/h0005722.d
Lab Smp Id: 20311062417
Inj Date : 12-NOV-2003 17:16
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062417MSD-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112.b/flpnauv.m
Meth Date : 17-Nov-2003 16:13 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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	1.038	1.031	0.007	1739	0.71164	119(M)
2 Acenaphthylene	1.251	1.244	0.007	1686	1.02217	170(M)
3 1-Methynaphthalene	1.377	1.368	0.009	1590	1.16630	194(M)
4 2-Methylnaphthalene	1.458	1.455	0.003	1900	0.97357	162(M)
5 Acenaphthene	1.531	1.522	0.009	596	0.63710	106(M)
6 Fluorene	1.638	1.635	0.003	9302	0.82081	137
7 Phenanthrene	1.878	1.878	0.000	22414	0.86541	144
8 Anthracene	2.124	2.128	-0.004	49614	0.88285	147
9 Fluoranthene	2.371	2.368	0.003	9861	1.34973	225
10 Pyrene	2.538	2.544	-0.006	9464	1.59998	267(RM)
11 p-Terphenyl	3.011	3.018	-0.007	12610	1.80159	300(RM)
12 Benzo(a)Anthracene	3.197	3.204	-0.007	17605	1.08554	181(M)
13 Chrysene	3.364	3.377	-0.013	27831	1.06302	177(M)
14 Benzo(b)Fluoranthene	3.864	3.878	-0.014	17084	0.84640	141(M)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
15 Benzo(k)Fluoranthene	4.124	4.032	0.092	10142	0.82132	137(M)
16 Benzo(a)Pyrene	4.298	4.212	0.086	13154	0.72965	122(M)
17 Dibenzo(a,h)Anthracene	4.544	4.512	0.032	3439	0.85490	142(M)
18 Benzo(g,h,i)Perylene	4.711	4.658	0.053	3840	0.58808	98.0(M)
19 Indeno(1,2,3-c,d)Pyrene	4.964	4.825	0.139	11699	0.80151	134(M)

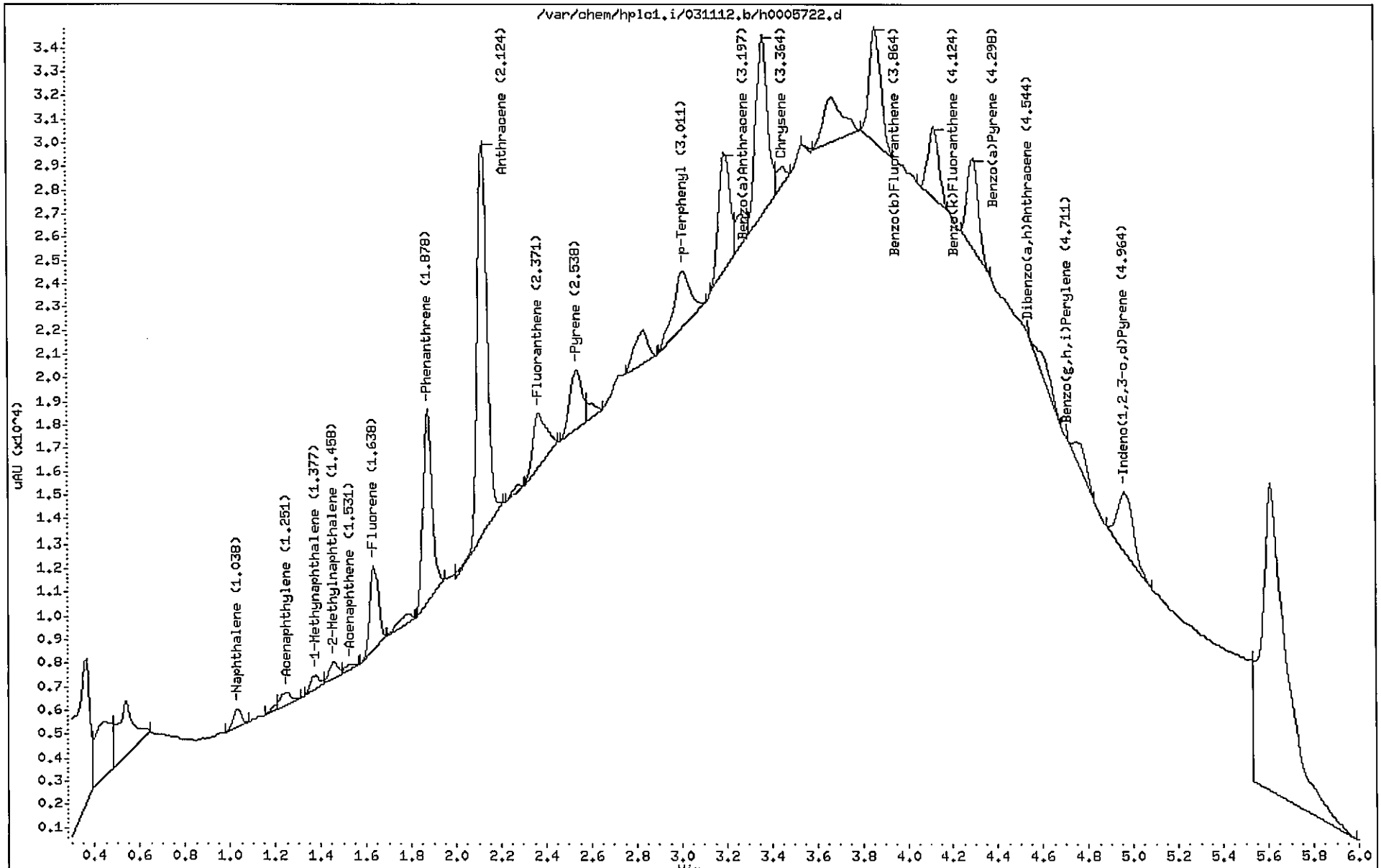
QC Flag Legend

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

000708

Data File: /var/chem/hplc1.i/031112.b/h0005722.d
Date : 12-NOV-2003 17:16
Client ID:
Sample Info: 20311062417HSD-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

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



Gulf Coast Analytical Laboratories, Inc.

Data file : /var/chem/hplc1.i/031112f.b/h0005722.d
Lab Smp Id: 20311062417
Inj Date : 12-NOV-2003 17:16
Operator : jdt Inst ID: hplc1.i
Smp Info : 20311062417MSD-DL5
Misc Info :
Comment :
Method : /var/chem/hplc1.i/031112f.b/flpnafld.m
Meth Date : 17-Nov-2003 16:18 jdt Quant Type: ESTD
Cal Date : 12-NOV-2003 10:39 Cal File: h0005692.d
Als bottle: 1 QC Sample: MSD
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*Vi) * CpndVariable

Name	Value	Description
DF	5.00000	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	1.063	1.043	0.020	3480	0.33176	55.3(RM)
3 1-Methynaphthalene	1.387	1.387	0.000	2516	1.15418	192(M)
4 2-Methylnaphthalene	1.480	1.473	0.007	1310	0.73737	123(M)
5 Acenaphthene	1.543	1.547	-0.004	5016	1.12632	188(M)
7 Phenanthrene	1.890	1.863	0.027	13354	0.84915	142(M)
8 Anthracene	2.137	2.143	-0.006	5217	0.89928	150
9 Fluoranthene	2.380	2.383	-0.003	5342	0.93426	156(M)
10 Pyrene	2.553	2.560	-0.007	28155	0.84444	141
11 p-Terphenyl	3.023	3.033	-0.010	3895	0.44617	74.4(M)
12 Benzo(a)Anthracene	3.213	3.223	-0.010	25279	0.90888	151(M)
13 Chrysene	3.390	3.390	0.000	4330	1.15927	193(M)
14 Benzo(b)Fluoranthene	3.880	3.890	-0.010	22674	0.97773	163
15 Benzo(k)Fluoranthene	4.137	4.043	0.094	49116	0.96543	161
16 Benzo(a)Pyrene	4.310	4.220	0.090	38714	0.87943	147

ompounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Dibenzo(a,h)Anthracene	4.627	4.527	0.100	14963	0.90208	150
18 Benzo(g,h,i)Perylene	4.783	4.673	0.110	12578	0.88526	148
19 Indeno(1,2,3-c,d)Pyrene	4.983	4.837	0.146	3464	0.75588	126

QC Flag Legend

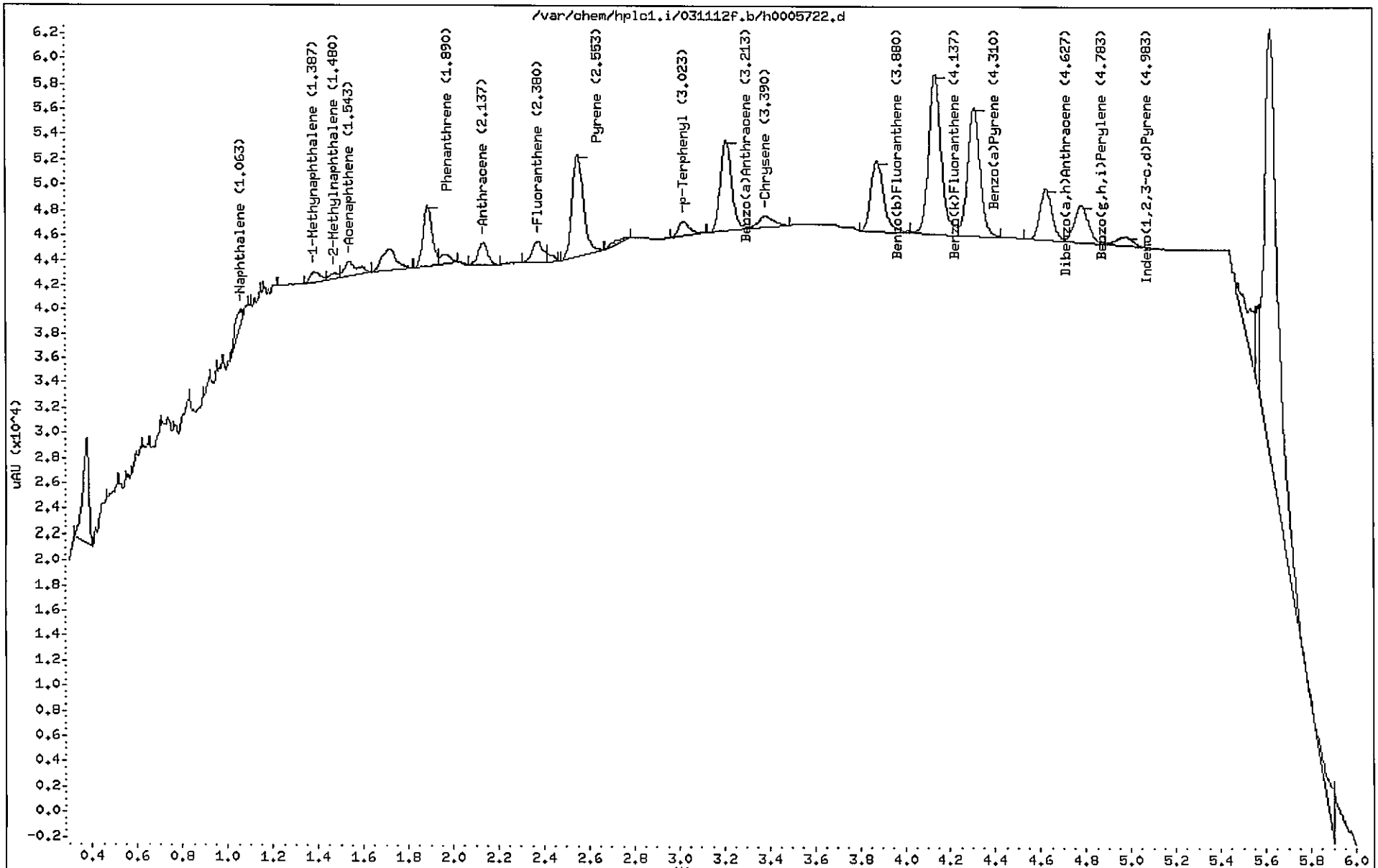
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /var/chem/hplc1.i/031112f.b/h0005722.d
Date : 12-NOV-2003 17:16
Client ID:
Sample Info: 20311062417MSD-DL5
Volume Injected (uL): 10.0
Column phase: 201TP-0.15M

Instrument: hplc1.i

Operator: jdt
Column diameter: 2.10

000711



PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	11/08/03 10:00	BATCH NO:	265029
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	In-house QC Ac	MB for HBN 265029 [EXTO/4474]	128899	1000	1.0	7		LIQUID LIQUID/3520
2	In-house QC Ac	LCS for HBN 265029 [EXTO/4474]	128900	1000	1.0	7		
3	In-house QC Ac	LCSD for HBN 265029 [EXTO/4474	128901	1000	1.0	7		SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	071-1159-FD-3-BL	20311051123	1000	1.0	7		
5	CH2M HILL Cons	86-EB1-W-1105-03	20311062420	1000	1.0	7		
6	CH2M HILL Cons	86-EB2-W-1105-03	20311062421	1000	1.0	7		
7								SONICATOR/3550
8								
9								SOXHLET/3540
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								Sodium Sulfate Lot No: 034830
20								
21								ACETONITRILE: 030799
22								
23								MeCL2 Lot No: 030489
24								
25								
26								
27								
28								

SDR 11/8/03

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	S-215-1			SPIKE ID	S-233-1	TECHNICIAN	DATE
VOLUME	0.5mL			VOLUME	1.0mL	John Bailey	11/08/03
CONCENTRATION	4.0 ug/mL			CONCENTRATION	Various		
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	JPA					John Bailey	11/08/03

PAH SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	11/11/03 14:00	BATCH NO:	265228
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	In-house QC Ac	MB for HBN 265228 [EXTO/4501]	129800	30.0	1.0			LIQUID LIQUID/3520
2	In-house QC Ac	LCS for HBN 265228 [EXTO/4501]	129801	30.0	1.0			
3	In-house QC Ac	LCSD for HBN 265228 [EXTO/4501	129802	30.0	1.0			SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	86-B7-S-1105-03	20311062401	30.0	1.0			
5	CH2M HILL Cons	86-B31-S-1105-03	20311062402	30.0	1.0			
6	CH2M HILL Cons	86-B41-S-1105-03	20311062403	30.0	1.0			
7	CH2M HILL Cons	86-B70-S-1105-03	20311062404	30.0	1.0			SONICATOR/3550
8	CH2M HILL Cons	86-B96-S-1105-03	20311062405	30.0	1.0			
9	CH2M HILL Cons	86-B99-S-1105-03	20311062406	30.0	1.0			SOXHLET/3540
10	CH2M HILL Cons	86-B101-S-1105-03	20311062407	30.0	1.0			
11	CH2M HILL Cons	86-B104-S-1105-03	20311062408	30.0	1.0			
12	CH2M HILL Cons	86-B106-S-1105-03	20311062409	30.0	1.0			
13	CH2M HILL Cons	86-B110-S-1105-03	20311062410	30.0	1.0			
14	CH2M HILL Cons	86-B137-S-1105-03	20311062411	30.0	1.0			
15	CH2M HILL Cons	86-B146-S-1105-03	20311062412	30.0	1.0			
16	CH2M HILL Cons	86-B158-S-1105-03	20311062413	30.0	1.0			
17	CH2M HILL Cons	86-B167-S-1105-03	20311062414	30.0	1.0			
18	CH2M HILL Cons	86-B189-S-1105-03	20311062415	30.0	1.0			
19	CH2M HILL Cons	86-MS-S-1105-03	20311062416	30.0	1.0			Sodium Sulfate Lot No:
20	CH2M HILL Cons	86-MSD-S-1105-03	20311062417	30.0	1.0			034270
21	CH2M HILL Cons	86-DUP1-S-1010-02	20311062418	30.0	1.0			ACETONITRILE:
22	CH2M HILL Cons	86-DUP2-S-1010-02	20311062419	30.0	1.0			030799
23								MeCL2 Lot No:
24								030989
25				SKR 11/12/03				
26								
27								
28								

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

						TECHNICIAN	DATE
SURROGATE ID	8-215-1			SPIKE ID	8-236-2	[illegible]	11-11-3
VOLUME	0.5mL			VOLUME	1.0mL		
CONCENTRATION	4.0ug/mL			CONCENTRATION	500ug/mL		
NaOH		ACID				SUPERVISOR	DATE
SPIKE WITNESS	BEJ					John Bailey	11/12/03

LABORATORY CHRONICLE: HPLC - 8310

Date: 10-NOV-2003
Instrument: hplc1.i
Analyst: jdt

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
1110STD05	3-46-6	h0005676.d	1000.00 ml	10-NOV-2003 14:31	1.000	1	
128899		h0005677.d	1000.00 ml	10-NOV-2003 15:17	1.000	1	
128900		h0005678.d	1000.00 ml	10-NOV-2003 15:24	1.000	1	
128901		h0005679.d	1000.00 ml	10-NOV-2003 15:31	1.000	1	
20311051123		h0005680.d	1000.00 ml	10-NOV-2003 15:38	1.000	1	
20311062420		h0005681.d	1000.00 ml	10-NOV-2003 15:45	1.000	1	
20311062421		h0005682.d	1000.00 ml	10-NOV-2003 15:51	1.000	1	
1110STD05	3-46-6	h0005683.d	1000.00 ml	10-NOV-2003 16:48	1.000	1	

EVISED 11/11/2003 Supervisor Review: QA Review:

LABORATORY CHRONICLE: HPLC - 8310

Date: 12-NOV-2003
Instrument: hplc1.i
Analyst: jdt

Sample ID	ClientName	DataFile	WT VOL	Injection Time	DilFactor	ALS	Comments
1112STD05		h0005684.d	1000.00 ml	12-NOV-2003 09:38	1.000	1	
1112STD08	3-46-3	h0005685.d	1000.00 ml	12-NOV-2003 09:50	1.000	1	
1112STD07	3-46-4	h0005686.d	1000.00 ml	12-NOV-2003 09:57	1.000	1	
1112STD06	3-46-5	h0005687.d	1000.00 ml	12-NOV-2003 10:04	1.000	1	
1112STD05	3-46-6	h0005688.d	1000.00 ml	12-NOV-2003 10:11	1.000	1	
1112STD04	3-46-7	h0005689.d	1000.00 ml	12-NOV-2003 10:18	1.000	1	
1112STD03	3-46-8	h0005690.d	1000.00 ml	12-NOV-2003 10:25	1.000	1	
1112STD02	3-46-9	h0005691.d	1000.00 ml	12-NOV-2003 10:32	1.000	1	
1112STD01	3-46-10	h0005692.d	1000.00 ml	12-NOV-2003 10:39	1.000	1	
1112PNAICV	3-47-8	h0005693.d	1000.00 ml	12-NOV-2003 11:02	1.000	1	
129800		h0005694.d	30.00 g	12-NOV-2003 11:53	1.000	1	
129801		h0005695.d	30.00 g	12-NOV-2003 12:00	1.000	1	
129802		h0005696.d	30.00 g	12-NOV-2003 12:07	1.000	1	
20311062401		h0005697.d	30.00 g	12-NOV-2003 12:29	1.000	1	
20311062402		h0005698.d	30.00 g	12-NOV-2003 12:36	1.000	1	
20311062403		h0005699.d	30.00 g	12-NOV-2003 12:42	1.000	1	
20311062404		h0005700.d	30.00 g	12-NOV-2003 12:49	1.000	1	
20311062405		h0005701.d	30.00 g	12-NOV-2003 12:56	1.000	1	
20311062406		h0005702.d	30.00 g	12-NOV-2003 13:03	1.000	1	
20311062407		h0005703.d	30.00 g	12-NOV-2003 13:10	1.000	1	
1112STD05	3-46-6	h0005704.d	1000.00 ml	12-NOV-2003 13:59	1.000	1	
20311062408		h0005705.d	30.00 g	12-NOV-2003 14:12	1.000	1	
20311062409		h0005706.d	30.00 g	12-NOV-2003 14:36	1.000	1	
20311062410		h0005707.d	30.00 g	12-NOV-2003 14:43	1.000	1	
20311062411		h0005708.d	30.00 g	12-NOV-2003 14:50	1.000	1	
20311062412		h0005709.d	30.00 g	12-NOV-2003 14:57	1.000	1	
20311062413		h0005710.d	30.00 g	12-NOV-2003 15:04	1.000	1	
20311062414		h0005711.d	30.00 g	12-NOV-2003 15:11	1.000	1	
20311062418		h0005712.d	30.00 g	12-NOV-2003 15:18	1.000	1	
20311062419		h0005713.d	30.00 g	12-NOV-2003 15:25	1.000	1	
20311062415		h0005714.d	30.00 g	12-NOV-2003 15:32	1.000	1	
1112STD05	3-46-6	h0005715.d	1000.00 ml	12-NOV-2003 15:55	1.000	1	
20311062416		h0005716.d	30.00 g	12-NOV-2003 16:08	1.000	1	
20311062417		h0005717.d	30.00 g	12-NOV-2003 16:15	1.000	1	
20311062404		h0005718.d	30.00 g	12-NOV-2003 16:32	20.000	1	
20311062405		h0005719.d	30.00 g	12-NOV-2003 16:39	20.000	1	
20311062407		h0005720.d	30.00 g	12-NOV-2003 17:02	5.000	1	
20311062416		h0005721.d	30.00 g	12-NOV-2003 17:09	5.000	1	
20311062417		h0005722.d	30.00 g	12-NOV-2003 17:16	5.000	1	
20311062418		h0005723.d	30.00 g	12-NOV-2003 17:23	20.000	1	
1112STD05	3-46-6	h0005724.d	1000.00 ml	12-NOV-2003 17:52	1.000	1	

REVISED 11/13/2003 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#	INIT	DATE PREPARED	EXP DATE
~~8330HR ICV~~	~~3-46-1~~	~~1.0mg/ml M-8330A-R 10~~	~~Accu Std~~								JDT 6
8330HR ICV	3-46-1	100ug/ml EPA 8330 MixA	Supelco	LB04986/12/04	50ul	10.0ml	500ppb	MeOH/023617	JDT	6/10/03	12/10/03
↓	↓	1000ug/ml 3,4-DNT	Ultra	S-1018/9/5	5ul	↓	500ppb	↓	↓	↓	↓
Cal Form 1000ppm	3-46-2	Form 37.4%	Fisher	011089/NA	267ul	100ml	1000ppm	DI H_2O	JDT	6/17/03	6/24/03
Dates 6/10/03 - 6/17/03 Reviewed By QA/QC 6/25/03											
PNA Cal 8	3-46-3	2.0mg/ml PAH Mix	Accu Std	B2060136/6/11/04	500ul	50ml	20ppm	ACN/030646	JDT	6/30/03	12/30/03
↓	↓	2000ug/ml p-Terphenyl	Ultra	~~M-4911~~ ~~M-4911B~~ / ~~1/2005~~ M4911B/1/2005	500ul	↓	20ppm	↓	↓	↓	↓
PNA Cal 7	3-46-4	PNA Cal 8	In House	3-46-3/12/30/03	2.5ml	5.0ml	10ppm	ACN/030646	JDT	6/30/03	12/30/03
PNA Cal 6	3-46-5	↓	↓	↓	1.25ml	5.0ml	5ppm	↓	↓	↓	↓
PNA Cal 5	3-46-6				6.25ml	50ml	2.5ppm				
PNA Cal 4	3-46-7				250ul	5.0ml	1.0ppm				
PNA Cal 3	3-46-8				125ul	5.0ml	0.50ppm				
PNA Cal 2	3-46-9				62.5ul	5.0ml	0.25ppm				
PNA Cal 1	3-46-10	↓	↓	↓	25ul	5.0ml	0.10ppm	↓	↓	↓	↓
PNA ICV	3-46-11	PAH Mix	Ultra	R-0889/02/2003	100ul	10.0ml	Various	ACN/030646	JDT	06/30/03	08/31/03
↓	↓	2000ug/ml p-Terphenyl	Ultra	M-4911B/1/2005	20ul	↓	4ppm	↓	↓	↓	↓
		1000ug/ml 1-MNAP	Ultra	R-1459/12/2004	100ul		10ppm				
↓	↓	100ug/ml 2-MNAP	Ultra	T-0520/05/2006	1000ul	↓	10ppm	↓	↓	↓	↓
Cal Form 1000ppm	3-46-12	Form 37.4%	Fisher	011089/NA	267ul	100ml	1000ppm	DI H_2O	JDT	7/15/03	7/22/03
7/25/03 Dates 6/30/03 - 7/15/03 Reviewed By QA/QC 7/25/03											
8270 IS	3-46-13	US-108N	Ultra	T-1284/11/2005	12.0ml	2.0ml	4000ppm	N/A	RLW	N/A	11/2006
				RLW 07-30-03							

000716

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INIT	DATE PREPARED	EXP DATE
BNA 10	3-47-1	Q-3392	NSI	040203-08 / 04-02-04	50 ul	1.0 ml	10 ppm	DCM / 030609	RLW	07-30-03	04-02-04
50	3-47-2	↓	↓	↓	250 ul	↓	50 ppm	↓	↓	↓	↓
80	3-47-3	↓	↓	↓	400 ul	↓	80 ppm	↓	↓	↓	↓
120	3-47-4	↓	↓	↓	600 ul	↓	120 ppm	↓	↓	↓	↓
160	3-47-5	↓	↓	↓	800 ul	↓	160 ppm	↓	↓	↓	↓
200	3-47-6	↓	↓	↓	1000 ul	↓	200 ppm	↓	↓	↓	↓
Cal Form 1000ppm	3-47-7	Form 37.42	Fisher	011029 / NA	267 ul	100 ml	1000 ppm	DI H_2O	JDT	7/31/03	8/7/03
8/26/03 Dates 7/30/03 – 7/31/03 reviewed by DA/GC											
PNA ICV	3-47-8	PAH Mix	Ultra	T-1325 / 11/05	10 ul	1.0 ml	Various	DACN / 030646	JDT	9/2/03	3/2/04
↓	↓	2000 ng/ml p-Terphenyl	Ultra	U-0591 / 5/07	2 ul	↓	4 ppm	↓	↓	↓	↓
↓	↓	1000 ng/ml 1-MNAP	Ultra	R-1459 / 12/04	10 ul	↓	10 ppm	↓	↓	↓	↓
↓	↓	100 ng/ml 2-MNAP	Ultra	T-1514 / 12/06	100 ul	↓	10 ppm	↓	↓	↓	↓
Acetate Buffer	3-47-9	$NaAc \cdot 3H_2O$	FISHER	015923 / NA	13.6 g	1000 ml	—	HPLC H_2O 030792	JDT	9/17/03	10/1/03
↓	↓	Acetic Acid	FISHER	031457 / NA	5.2 ml	↓	—	↓	↓	↓	↓
Benzidine 50ppm	3-47-10	Benzidine 2000ppm	Ultra	S-1149 / 10/04	25 ul	1000 ul	50 ppm	Acetate Buffer 3-47-9	JDT	9/18/03	3/18/04
BDZ 400	3-47-11	Benz 50ppm	In House	3-47-10 / 03/18/04	40 ml	5.0 ml	400 ppb	"	"	"	"
BDZ 200	3-47-12	"	"	" "	20 ml	5.0 ml	200 ppb	"	"	"	"
BDZ 100	3-47-13	"	"	" "	10 ml	5.0 ml	100 ppb	"	"	"	"
BDZ 50	3-47-14	"	"	" "	5 ml	5.0 ml	50 ppb	"	"	"	"
BDZ 25	3-47-15	"	"	" "	2.5 ml	5.0 ml	25 ppb	"	"	"	"
BDZ ICV	3-47-16	Benzidine SPK 500ppb	In House	8-225-3 / 11/30/03	200 ul	1000 ul	100 ppb	Acetate Buffer 3-47-9	JDT	9/18/03	11/30/03
9/25/03 Dates 9/2/03 – 9/18/03 reviewed by DA/GC											

000047

000047

8-214-1 504 SPIKE (Stock ICV) 50ppm

Solution was prepared by transferring 250ul of Supelco EPA 8010B EDB/DBCP mix 2000 ug/ml Lot# LB08343 into a 10mL class "A" vol flask, then diluting to mark with Methanol. Transfer was made with a 250 ul syringe. (Methanol Lot# 030536)

FINAL CONC 50 PPM EXP 02/21/04

John Bailey
07/21/03

8-214-2 504 SPIKE (stock ICV 3.5ug/ml)

Solution was prepared by transferring 700ul of 504 SPIKE STD# 8-214-1 into a 10mL class A vol flask, then diluting to mark with methanol. Transfer was made with a 1.0mL gastight syringe (Methanol Lot# 030536)

FINAL CONC 3.5 ug/ml EXP 02/21/04

John Bailey
07/21/03

8-214-3 ICV 504 SPIKE

Solution was prepared by transferring 2.0mL of 504 SPIKE STD# 8-214-2 into a 10.mL class A vol flask, then diluting to mark with methanol. Transfer was made with a 1.0mL syringe (Methanol Lot# 030536)

FINAL CONC 0.7 ug/ml EXP 02/21/04

John Bailey
07/21/03

8-215-1 PNA 8310 SORR

Solution was prepared by transferring 400ul of ULTRA P-Terphenyl 1ST-490 into a 200mL class "A" vol flask, then diluting to mark with acetonitrile. Transfer was made with a 0.5mL gastight syring. (Acetonitrile Lot# 030799)

FINAL CONC 4.0 ug/ml EXP 02/21/04

John Bailey
07/21/03

Herb Spike

8-215-2 Solution was prepared by transferring ~~100ul~~ 1.0ml of AccuStandard M-8150A Lot # B3020166 into a 10ml class "A" vol flask, then diluting to mark with methanol. Transfer was made with a 1.0ml ~~glass tight~~ gastight syring. (methanol Lot 030536)

Final conc 10ug/ml EXP 01/24/04

7/24/03

AccuStandard, Inc.
M-8150A 1 mL
Underivatized Chlorinated Herbicides
Varied conc. in MeOH
Lot: B3020166
Exp: Feb 20,2005
10 comps.
CARCINOGENIC
FOR LABORATORY USE ONLY
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.
STORAGE AMBIENT

7/25/03 Dates 6/30/03 - 7/24/03 Reviewed by QA/QC

000718

8-232-1

TPHD SPIKE

Solution was prepared by transferring 2.0 mL of NSI Diesel fuel No. 2 Lot# 145-08 into a 50 mL class "A" vol flask, then diluting to mark with Acetone. Transfer was made with a 1.0 mL gastight syringe. (Acetone Lot# 034641)

FINAL Conc 2000 ug/mL

EXP ~~10/28/04~~ 04/28/04

John Bailey
10/28/03

NSI Solutions Inc. 1-800-234-7837
7517 Precision Dr. Ste 101 Raleigh, NC 27617
DIESEL FUEL NO. 2
UST-145-08 EXP DATE: 08/04
SOLV: CH2Cl2 CONC: 50,003 ug/mL
HAZARD: IRRITANT, CARCINOGEN
For Research Use Only

8-232-2

HERB SPIKE

Solution was prepared by transferring 1.0 mL of ACCU standard M-8150A Lot# B3020166 into a 10 mL class "A" vol flask, then diluting to mark with Methanol. Transfer was made with a 1.0 mL gastight syringe. (Methanol Lot# 033518)

FINAL Conc 10 ug/mL

EXP 05/01/04

John Bailey
10/31/03

AccuStandard, Inc. 125 Market Street, New Haven, CT 06511 Phone 203-786-5290 | 203-786-5291
M-8150A
Underivatized Chlorinated Herbicides
Varied conc. in MeOH
Lot: B3020166
Exp: Feb 20.2005
1 mL
10 comps.
CARCINOGENIC
FOR LABORATORY USE ONLY
WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.
STORAGE AMBIENT

8-233-1

PAH SPIKE (8310)

Solution was prepared by transferring 200 ul of ULTRA 1-methylnaphthalene EPA-1225 Lot# R-1459 and 200 ul of ULTRA PAH mixture PM-831A Lot# T1355 and 2.0 mL of ULTRA 2-methylnaphthalene SV-200 Lot# T0520 into a 20 mL class "A" vol flask, then diluting to mark with Acetonitrile. (Acetonitrile Lot# 030641)

EXP 05/01/04

John Bailey
10/31/03

8-233-2

FL PRO SPIKE

Solution was prepared by transferring 2.5 mL of NSI Florida TPH mix C-443-10 into a 10 mL class "A" vol flask, then diluting to mark with 250 ul of Carbon disulfide then methylene chloride. Transfer was made with a 1.0 mL gastight syringe. (Carbon disulfide Lot# 010042) Methylene chloride Lot# 030989

FINAL Conc 500 ug/mL

EXP 05/03/04

John Bailey
11/03/03

NSI Solutions, Inc. 1-800-234-7837
7517 Precision Dr. Ste 101 Raleigh, NC 27617
FLORIDA TPH MIX
C-443-10 EXP DATE: 01/05
SOLV: CH2Cl2/CS2(50:50) CONC: 2000 ug/mL
HAZARD: FLAMMABLE, IRRITANT, CARCINOGEN
Research Use Only

000719

8-236-1 LCS Formaldehyde 1000ppm

Solution was prepared by transferring 267ul of formaldehyde 37.4% (Fisher 011089) into a 100ml class "A" volumetric flask, then diluting to volume with DI H_2O.

Final Conc: 1000ppm

James D. Turner 11/5/03

Expires: 11/12/03

8-236-2 8310 SPIKE

Solution was prepared by transferring 1.0mL of NSI Custom PAH MIX Q-4104 LOT# 110303-01 into a 100mL class "A" vol flask, then diluting to mark with Acetonitrile. Transfer was made with a 1.0mL gastight syringe (Acetonitrile LOT# 030799)

FINAL Conc 500 ug/mL EXP 05/05/04

John Baily 11/05/03

NSI Solutions Inc. 1-800-234-7837
7517 Precision Dr., Suite 101 Raleigh, NC 27617
Q-4104 Custom PAH Mix
LOT#:110303-01 EXP DATE: 11/05
SOLV: Methylene chloride
HAZARD: FLAMMABLE, IRRITANT
For Research Use Only CONC: 500 ug/mL

8-237-1 FL PRO SURR

Solution was prepared by transferring 250ul of NSI O-Terphenyl LOT# 1341H-02-05 and 7.5 mL of ULTRA TRPH SURR IST-680 LOT# T-0780 into a 50mL class "A" vol flask, then diluting with 10mL of Carbon Disulfide and then to mark with acetone. Transfer was made with a 1.0mL gastight syring. (Carbon Disulfide LOT# 010066) Acetone LOT# 034641

FINAL Conc 50/200 ug/mL EXP 05/05/04

John Baily 11/05/03

NSI Solutions Inc. 1-800-234-7837
7517 Precision Dr. Ste 101 Raleigh, NC 27617
o-TERPHENYL
1341H-02-05 EXP DATE: 08/05
SOLV: Methylene chloride CONC: 10,187 ug/mL
HAZARD: IRRITANT,CARCINOGEN
For Research Use Only

TRPH Surrogate Standard (FL)

IST-680
Lot No. T-0780 Exp. Date 07/2005 1 mL
ULTRA SCIENTIFIC North Kingstown, RI 401-294-9400
LAB USE ONLY

8-237-2 Pest/PCB SURR

Solution was prepared by transferring 0.5 of NSI CLP Pest SURR LOT# C-194-05 into a 200mL class "A" vol flask, then diluting to mark with acetone. Transfer was made with a 0.5mL gastight syringe (Acetone LOT# 034641)

FINAL Conc 0.5 ug/mL EXP 05/05/04

John Baily 11/05/03

000720

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: 14 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: 265229 Analytical Batch: 265529

Sample ID: 86-B7-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062401

Date Collected: 11/05/03 Time: 1525

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1519

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	127000		5820	9310

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: 265229 Analytical Batch: 265529

Sample ID: 86-B31-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062402

Date Collected: 11/05/03 Time: 1600

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1221

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	9010	U	5630	9010

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: 15 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: 265229 Analytical Batch: 265529

Sample ID: 86-B41-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062403

Date Collected: 11/05/03 Time: 1540

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1319

Dilution Factor: 10 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	10400000		59300	94800

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: 9. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B70-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062404

Date Collected: 11/05/03 Time: 1510

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1814

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

CONCENTRATION UNITS: ug/kg

Lab File ID: 2031113/SV2AD0

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	93500		5540	8860

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: 5. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B96-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062405

Date Collected: 11/05/03 Time: 1400

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1911

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	32500		5280	8450

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: 12 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: 265229 Analytical Batch: 265529

Sample ID: 86-B99-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062406

Date Collected: 11/05/03 Time: 1455

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1514

Dilution Factor: 5 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	4860000		28700	45900

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: 18 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: 265229 Analytical Batch: 265529

Sample ID: 86-B101-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062407

Date Collected: 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 2259

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	965000		6130	9810

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: 265229 Analytical Batch: 265529

Sample ID: 86-B104-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062408

Date Collected: 11/05/03 Time: 1350

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 2355

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	37700		5660	9050

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: 9. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B106-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062409

Date Collected: 11/05/03 Time: 1415

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0052

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	401000		5530	8840

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: 6. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B110-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062410

Date Collected: 11/05/03 Time: 1325

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0148

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	95100		5350	8560

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: 9. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B137-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062411

Date Collected: 11/05/03 Time: 1335

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0245

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	22900		5520	8830

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: 6. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B146-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062412

Date Collected: 11/05/03 Time: 1305

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0341

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	365000		5340	8540

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: 8. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B158-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062413

Date Collected: 11/05/03 Time: 1255

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0437

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	19600		5470	8750

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: 4. 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: 265229 Analytical Batch: 265529

Sample ID: 86-B167-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062414

Date Collected: 11/05/03 Time: 1315

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0533

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8380	U	5240	8380

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: 14 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: 265229 Analytical Batch: 265529

Sample ID: 86-B189-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062415

Date Collected: 11/05/03 Time: 1245

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0629

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	11000		5830	9320

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: 14 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: 265229 Analytical Batch: 265529

Sample ID: 86-MS-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062416

Date Collected: 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0724

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	3160000		5830	9320

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: 14 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: 265229 Analytical Batch: 265529

Sample ID: 86-MSD-S-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062417

Date Collected: 11/05/03 Time: 1435

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 0930

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	3040000		5830	9320

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: 5. 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: 265229 Analytical Batch: 265529

CONCENTRATION UNITS: ug/kg

Sample ID: 86-DUP1-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062418

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1611

Dilution Factor: 5 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	287000		26300	42100

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: 4. 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: 265229 Analytical Batch: 265529

Sample ID: 86-DUP2-S-1010-02

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062419

Date Collected: 11/05/03 Time: 0000

Date Received: 11/06/03

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1124

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8390	U	5240	8390

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: 265030 Analytical Batch: 265362

Sample ID: 86-EB1-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062420

Date Collected: 11/05/03 Time: 1230

Date Received: 11/06/03

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 1952

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

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: 265030 Analytical Batch: 265362

Sample ID: 86-EB2-W-1105-03

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 20311062421

Date Collected: 11/05/03 Time: 1615

Date Received: 11/06/03

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 2049

Dilution Factor: 1 Analyst: DLB

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

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: 265030 Analytical Batch: 265362

Sample ID: MB128902

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128902

Date Collected: Time:

Date Received:

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 0959

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	100	U	40.7	100

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: 265030 Analytical Batch: 265362

Sample ID: LCS128903

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128903

Date Collected: Time:

Date Received:

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 1110

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	2250		40.7	100

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: 265030 Analytical Batch: 265362

Sample ID: LCSD128904

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 128904

Date Collected: Time:

Date Received:

Date Extracted: 11/10/03

Date Analyzed: 11/12/03 Time: 1207

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031108/SV2AD0

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	2040		40.7	100

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: 265229 Analytical Batch: 265529

Sample ID: MB129804

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129804

Date Collected: Time:

Date Received:

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1229

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	8000	U	5000	8000

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: 265229 Analytical Batch: 265529

Sample ID: LCS129805

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129805

Date Collected: Time:

Date Received:

Date Extracted: 11/12/03

Date Analyzed: 11/13/03 Time: 1326

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	COMPOUND	RESULT	Q	MDL	RL
FLPRO-01	Petroleum Hydrocarbons	77100		5000	8000

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: 265229 Analytical Batch: 265529

Sample ID: LCSD129806

Contract:

SAS No.: SDG No.: 203110624

Lab Sample ID: 129806

Date Collected: Time:

Date Received:

Date Extracted: 11/12/03

Date Analyzed: 11/14/03 Time: 1417

Dilution Factor: 1 Analyst: TLS

Prep Method: FLORIDA PRO

Analytical Method: FLORIDA PRO

Sulfur Cleanup: (Y/N) N Instrument ID: GCS2A

Lab File ID: 2031113/SV2AD0

CONCENTRATION UNITS: ug/kg

CAS NO.	*COMPOUND*	*RESULT*	*Q*	*MDL*	*RL*
FLPRO-01	Petroleum Hydrocarbons	70700		5000	8000

2E

WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

GC Column (1): ID: (mm) GC Cloumn (2): ID: (mm)

Method: FLORIDA PRO

	EPA SAMPLE NO.	SMC1 1-(1)	Lo	Hi	F	SMC1 1-(2)	Lo	Hi	F	SMC2 2-(1)	Lo	Hi	F	SMC2 2-(2)	Lo	Hi	F	TOT OUT
1 .	86-EB1-W-1105-03	113	25	113						141	22	127	*					1
2 .	86-EB2-W-1105-03	98	25	113						98	22	127						0
3 .	MB128902	97	25	113						65	22	127						0
4 .	LCS128903	119	25	113	*					104	22	127						1
5 .	LCSD128904	101	25	113						57	22	127						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.: 203110624

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.	86-B7-S-1105-03	66				83				0
2.	86-B31-S-1105-03	66				62				0
3.	86-B41-S-1105-03	95				69				0
4.	86-B70-S-1105-03	54				50				0
5.	86-B96-S-1105-03	68				68				0
6.	86-B99-S-1105-03	94				123				0
7.	86-B101-S-1105-03	84				52				0
8.	86-B104-S-1105-03	69				86				0
9.	86-B106-S-1105-03	64				57				0
10.	86-B110-S-1105-03	64				47				0
11.	86-B137-S-1105-03	69				75				0
12.	86-B146-S-1105-03	71				75				0
13.	86-B158-S-1105-03	68				87				0
14.	86-B167-S-1105-03	66				49				0
15.	86-B189-S-1105-03	68				55				0
16.	86-MS-S-1105-03	118				41				0
17.	86-MSD-S-1105-03	107				34	*			1
18.	86-DUP1-S-1010-02	74				83				0
19.	86-DUP2-S-1010-02	65				44				0
20.	MB129804	61				40				0
21.	LCS129805	103				72				0
22.	LCSD129806	88				90				0

	CONTROL LIMITS	
SMC 1 : O-Terphenyl	39	119
SMC 2 : Nonatriacontane	40	139

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3F

SOIL ORGANIC LCS/LCSD RECOVERY

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: FLORIDA PRO

Prep Batch: 265229 Analytical Batch: 265529

Spike HSN : 129805

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	68000	0	77100	113		63 - 153

Spike Dupe HSN : 129806

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	68000	70700	104		9		63 - 153	0 - 25

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.: 203110624

Contract: Method: FLORIDA PRO

SAMPLE NO : 128903

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/L	1700	0	2250	132	*	55 - 118

SAMPLE NO : 128904

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/L	1700	2040	120	*	10		55 - 118	0 - 20

RPD : 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: FLORIDA PRO

Prep Batch: 265229 Analytical Batch: 265529

Spike HSN : 2031106241

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	79200	917000	3160000	2830	*	62 - 204

Spike Dupe HSN : 2031106241

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	79200	3040000	2680	*	4		62 - 204	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB128902

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 128902

SAS No.: SDG No.: 203110624

Matrix: Water Sulfur Cleanup: (Y/N) N

Date Extracted: 11/10/03

Date Analyzed (1): 11/12/03 Time (1): 0959

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Prep Batch: 265030 Analytical Batch: 265362

Lab File ID: 2031108/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS128903	128903	11/12/03	1110		
2.	LCSD128904	128904	11/12/03	1207		
3.	86-EB1-W-1105-03	20311062420	11/12/03	1952		
4.	86-EB2-W-1105-03	20311062421	11/12/03	2049		

4C

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL

Sample ID: MB129804

Lab Code: LA024 Case No.:

Contract:

Lab Sample ID: 129804

SAS No.: SDG No.: 203110624

Matrix: Soil Sulfur Cleanup: (Y/N) N

Date Extracted: 11/12/03

Date Analyzed (1): 11/13/03 Time (1): 1229

Date Analyzed (2): Time (2):

Instrument ID (1): GCS2A

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

Method: FLORIDA PRO

Prep Batch: 265229 Analytical Batch: 265529

Lab File ID: 2031113/SV2AD0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATE ANALYZED	TIME ANALYZED
1.	LCS129805	129805	11/13/03	1326		
2.	86-B7-S-1105-03	20311062401	11/13/03	1519		
3.	86-B70-S-1105-03	20311062404	11/13/03	1814		
4.	86-B96-S-1105-03	20311062405	11/13/03	1911		
5.	86-B101-S-1105-03	20311062407	11/13/03	2259		
6.	86-B104-S-1105-03	20311062408	11/13/03	2355		
7.	86-B106-S-1105-03	20311062409	11/14/03	0052		
8.	86-B110-S-1105-03	20311062410	11/14/03	0148		
9.	86-B137-S-1105-03	20311062411	11/14/03	0245		
10.	86-B146-S-1105-03	20311062412	11/14/03	0341		
11.	86-B158-S-1105-03	20311062413	11/14/03	0437		
12.	86-B167-S-1105-03	20311062414	11/14/03	0533		
13.	86-B189-S-1105-03	20311062415	11/14/03	0629		
14.	86-MS-S-1105-03	20311062416	11/14/03	0724		
15.	86-MSD-S-1105-03	20311062417	11/14/03	0930		
16.	86-DUP2-S-1010-02	20311062419	11/14/03	1124		
17.	86-B31-S-1105-03	20311062402	11/14/03	1221		
18.	86-B41-S-1105-03	20311062403	11/14/03	1319		
19.	LCSD129806	129806	11/14/03	1417		
20.	86-B99-S-1105-03	20311062406	11/14/03	1514		
21.	86-DUP1-S-1010-02	20311062418	11/14/03	1611		

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date(s): 11/08/03 11/08/03

Calibration Time(s): 1059 1657

LAB FILE ID: RRF6 =SV2AD002S RRF50 =SV2AD003S
RRF150=SV2AD004S RRF250=SV2AD005S RRF350=SV2AD008S

COMPOUND	RRF6	RRF50	RRF150	RRF250	RRF350	$\overline{RRF}$	% RSD
Total PRO	118541	177507	208759	212722	186079		
O-TERPHENYL	345551	347494	362463	350211	362653		
Nonatriacontane	101902	100077	99693	107062	69881		

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110511 SAS No.: SDG No.: 203110511

Instrument ID: GCSV2AD Calibration Date(s): 11/08/03 11/08/03

Calibration Time(s): 1059 1657

LAB FILE ID: RRF500=SV2AD007S

COMPOUND	RRF500					RRF	% RSD
Total PRO	192950					182759	18.7
O-TERPHENYL	348765					352856	2.2
Nonatriacontane	74033					92108	17.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Gulf Coast Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: 500 icv
Level: LOW
Data Type: GC MULTI COMP
SpikeList File: PROICV.spk
Sublist File: PRO.sub
Method File: /var/chem/gcsv2ad.i/2031108.b/flpro.m
Misc Info:

Client SDG: 2031108
Fraction: SV

Operator: tls
SampleType: LCS
Quant Type: ESTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
20 Total PRO	8500.0000	7291.0279	85.78	80-120

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/13/03 Time: 1117

Lab File ID: SV2AD002S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	175692		3.9	
O-TERPHENYL	352856	322487		8.6	
Nonatriacontane	92108	81595		11.4	

All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/13/03 Time: 2202

Lab File ID: SV2AD013S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	157402		13.8	
O-TERPHENYL	352856	315506		10.6	
Nonatriacontane	92108	40273		56.3	

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1 OLM03.0

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/14/03 Time: 0821

Lab File ID: SV2AD024S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	157333		13.9	
O-TERPHENYL	352856	257941		26.9	
Nonatriacontane	92108	80674		12.4	

All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/14/03 Time: 1709

Lab File ID: SV2AD033S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	162358		11.2	
O-TERPHENYL	352856	262095		25.7	
Nonatriacontane	92108	77765		15.6	

All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/12/03 Time: 2145

Lab File ID: SV2AD097S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	182856		-0.1	
O-TERPHENYL	352856	360865		-2.3	
Nonatriacontane	92108	73358		20.4	

All other compounds must meet a minimum RRF of 0.010.

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: GCAL Contract:

Lab Code: Case No.: 203110624 SAS No.: SDG No.: 203110624

Instrument ID: GCSV2AD Calibration Date: 11/12/03 Time: 0851

Lab File ID: SV2AD086S Init. Calib. Date(s): 11/08/03 11/08/03

Init. Calib. Times: 1059 1657

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Total PRO	182759	184650		-1.0	
O-TERPHENYL	352856	397596		-12.7	
Nonatriacontane	92108	63246		31.3	

All other compounds must meet a minimum RRF of 0.010.

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad006.d
Lab Smp Id: 20311062401
Inj Date : 13-NOV-2003 15:19
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062401-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 13-Nov-2003 12:13 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.103	7.703	11.400	267364308	947.252	75780.1834(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{267,364,308 - 17,340,202}{182759} \cdot \frac{2}{25} \cdot 1000 = 109,000\ ug/K$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad006s.d
Lab Smp Id: 20311062401
Inj Date : 13-NOV-2003 15:19
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062401-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

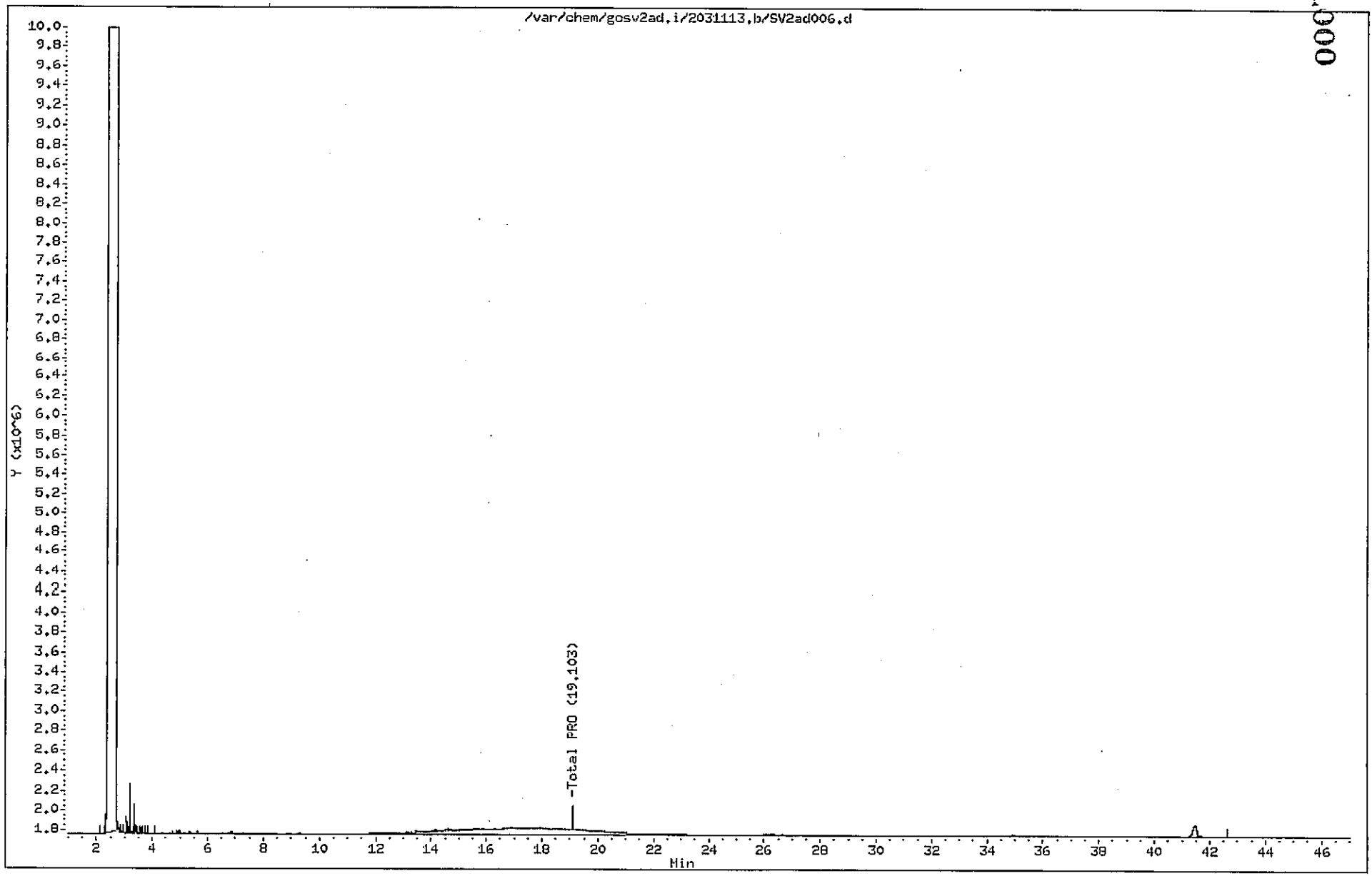
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.105	19.134	-0.029	5785408	16.3959	1311.6754
$ 18 Nonatriacontane	41.475	41.635	-0.160	11554794	125.449	10035.8831

17,340,202

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad006.d
Date : 13-NOV-2003 15:19
Client ID:
Sample Info: 20311062401-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000766

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad028.d
Lab Smp Id: 20311062402
Inj Date : 14-NOV-2003 12:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062402-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.098	12.661	6.437	11978117	42.4376	3395.0077(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{11978117 - 14433140}{182759} \cdot \frac{2}{25} \cdot 1000 = CDL$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad028s.d
Lab Smp Id: 20311062402
Inj Date : 14-NOV-2003 12:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062402-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

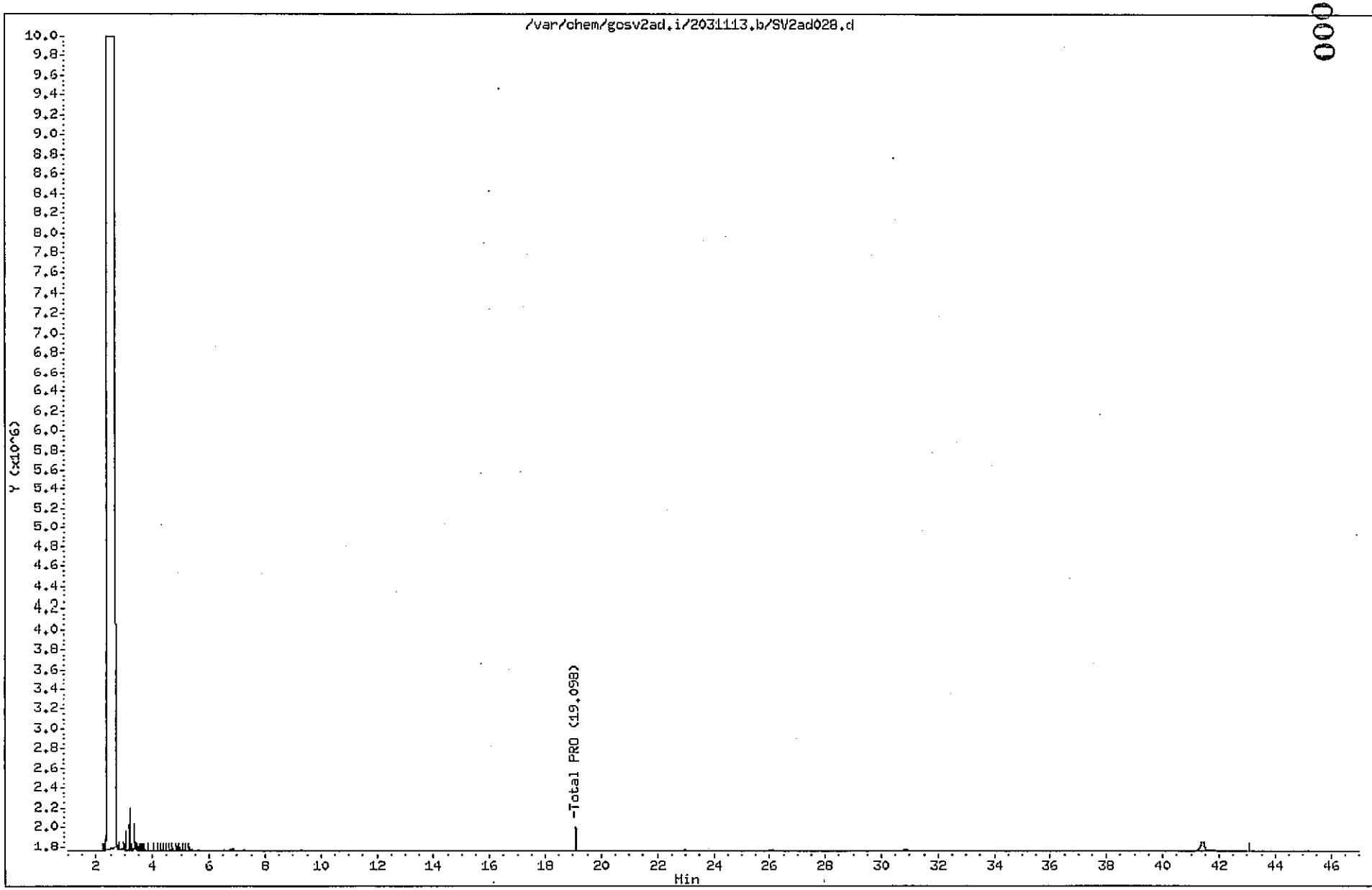
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.098	19.134	-0.036	5817295	16.4863	1318.9049
$ 18 Nonatriacontane	41.417	41.635	-0.218	8615845	93.5408	7483.2674

14433140

Data File: /var/chem/gcsv2ad.i/2031113.b/SV2ad028.d
Date : 14-NOV-2003 12:21
Client ID:
Sample Info: 20311062402-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53



000159

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad029.d
Lab Smp Id: 20311062403
Inj Date : 14-NOV-2003 13:19
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062403-10.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 29
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	10.00000	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	11.910	12.661	-0.751	2003936670	7099.80	5679841.4695(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{10\,(2003936670 - 1785557)}{182759} \cdot \frac{2}{25} \cdot 1000 = 8760000$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad029s.d
Lab Smp Id: 20311062403
Inj Date : 14-NOV-2003 13:19
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062403-10.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 29
Dil Factor: 10.00000
Integrator: HP Genie Compound Sublist: CH2M.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	10.00000	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

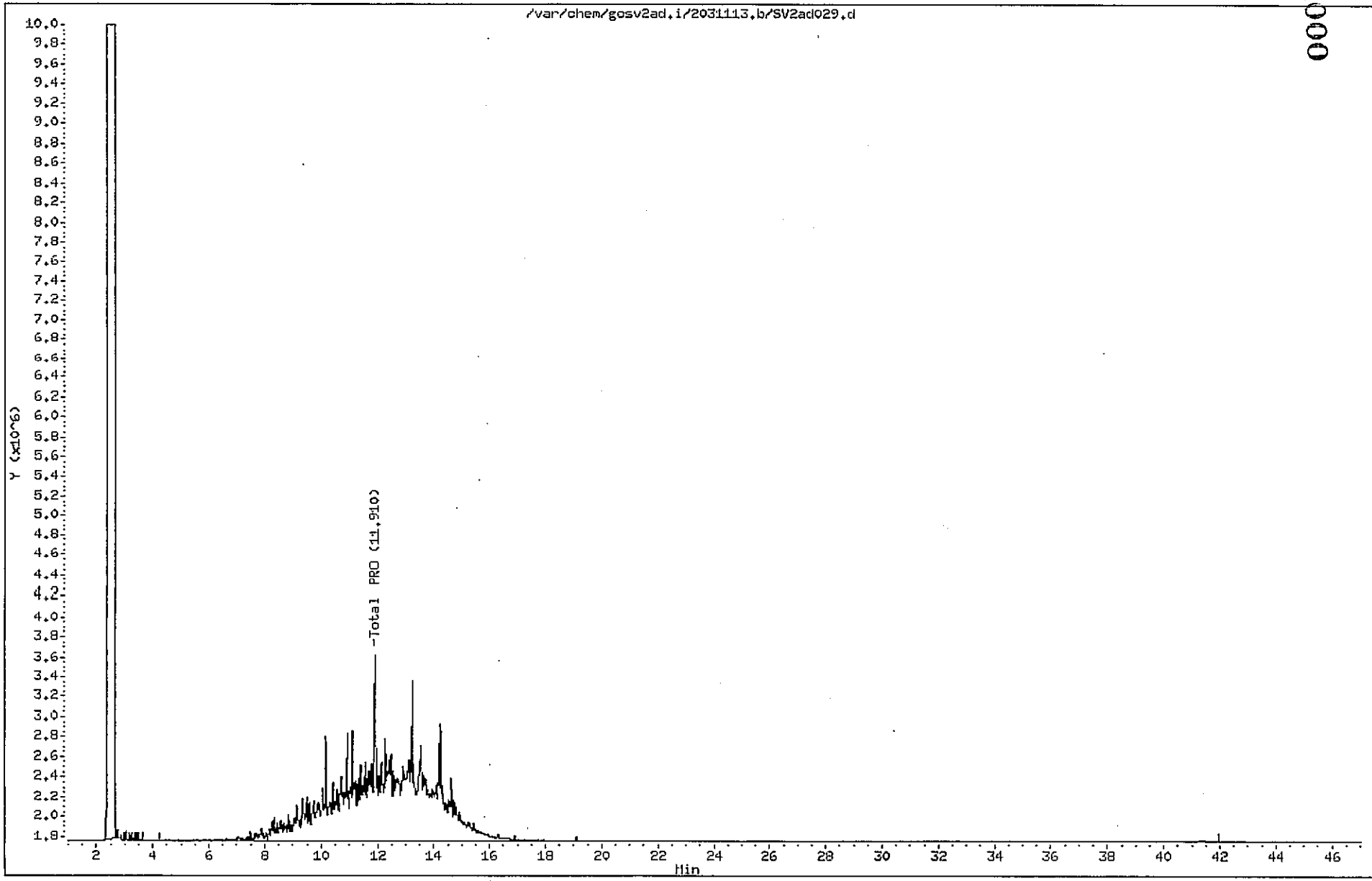
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.098	19.134	-0.036	832178	2.35841	1886.7251
$ 18 Nonatriacontane	41.367	41.635	-0.268	953379	10.3507	8280.5459

1785557

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad029.d
Date : 14-NOV-2003 13:19
Client ID:
Sample Info: 20311062403-10.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000172

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad009.d
Lab Smp Id: 20311062404
Inj Date : 13-NOV-2003 18:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062404-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	4.890	12.661	-7.771	204634703	725.006	58000.4692(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{204634703 - 11723953}{182759} \cdot \frac{2}{25} \cdot 1000 = 84400$ ug/Kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad009s.d
Lab Smp Id: 20311062404
Inj Date : 13-NOV-2003 18:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062404-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.102	19.134	-0.032	4783172	13.5556	1084.4471(R)
§ 18 Nonatriacontane	41.446	41.635	-0.189	6940781	75.3549	6028.3954(R)

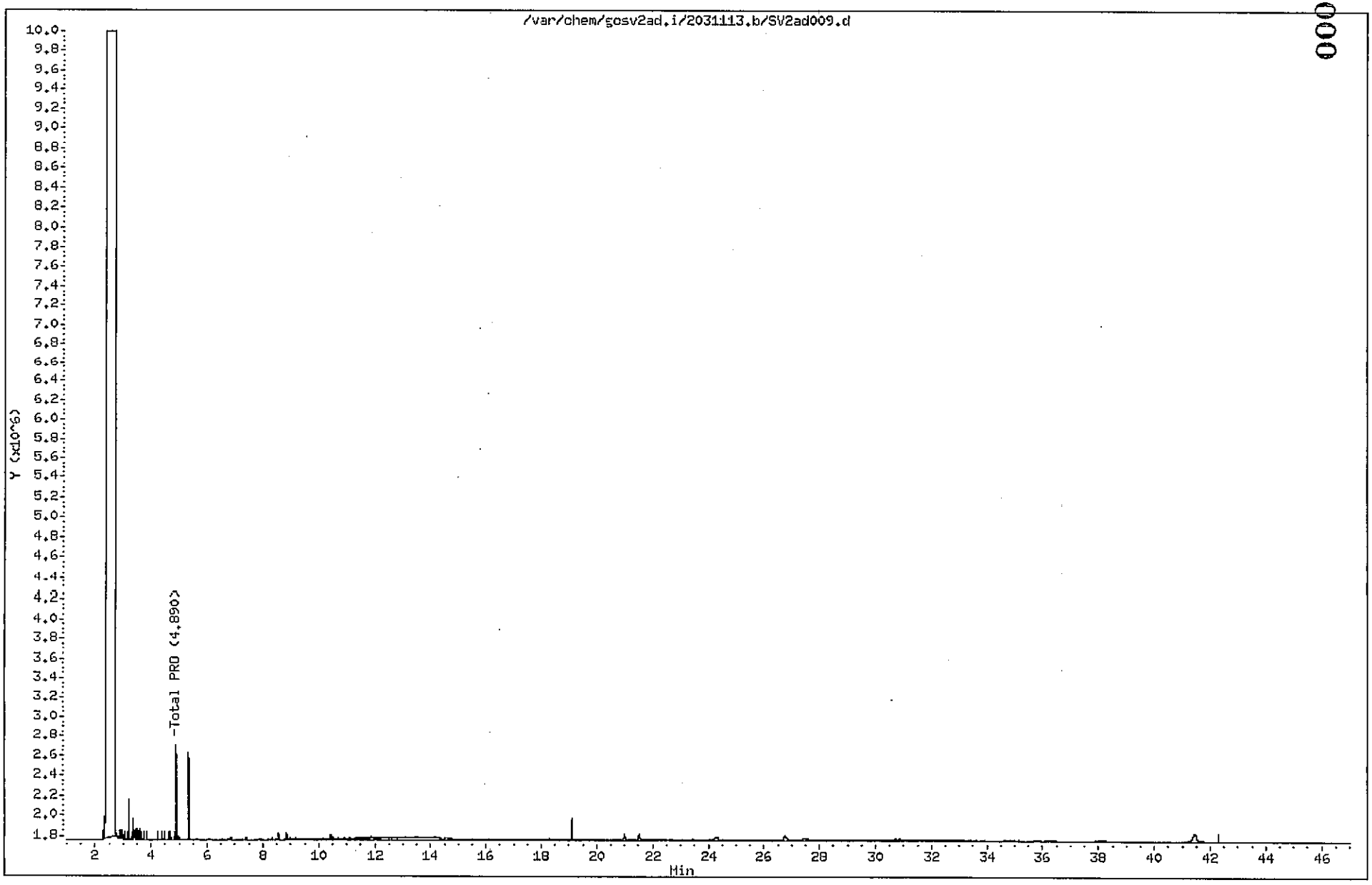
QC Flag Legend

R - Spike/Surrogate failed recovery limits. 11723953

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad009.d
Date : 13-NOV-2003 18:14
Client ID:
Sample Info: 20311062404-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000775



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad010.d
Lab Smp Id: 20311062405
Inj Date : 13-NOV-2003 19:11
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062405-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.100	12.661	6.439	85735505	303.755	24300.3725(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{85,735,505 - 15,344,184}{182759} \cdot \frac{2}{25} \cdot 1000 = 30,800$ ug/kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad010s.d
Lab Smp Id: 20311062405
Inj Date : 13-NOV-2003 19:11
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062405-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

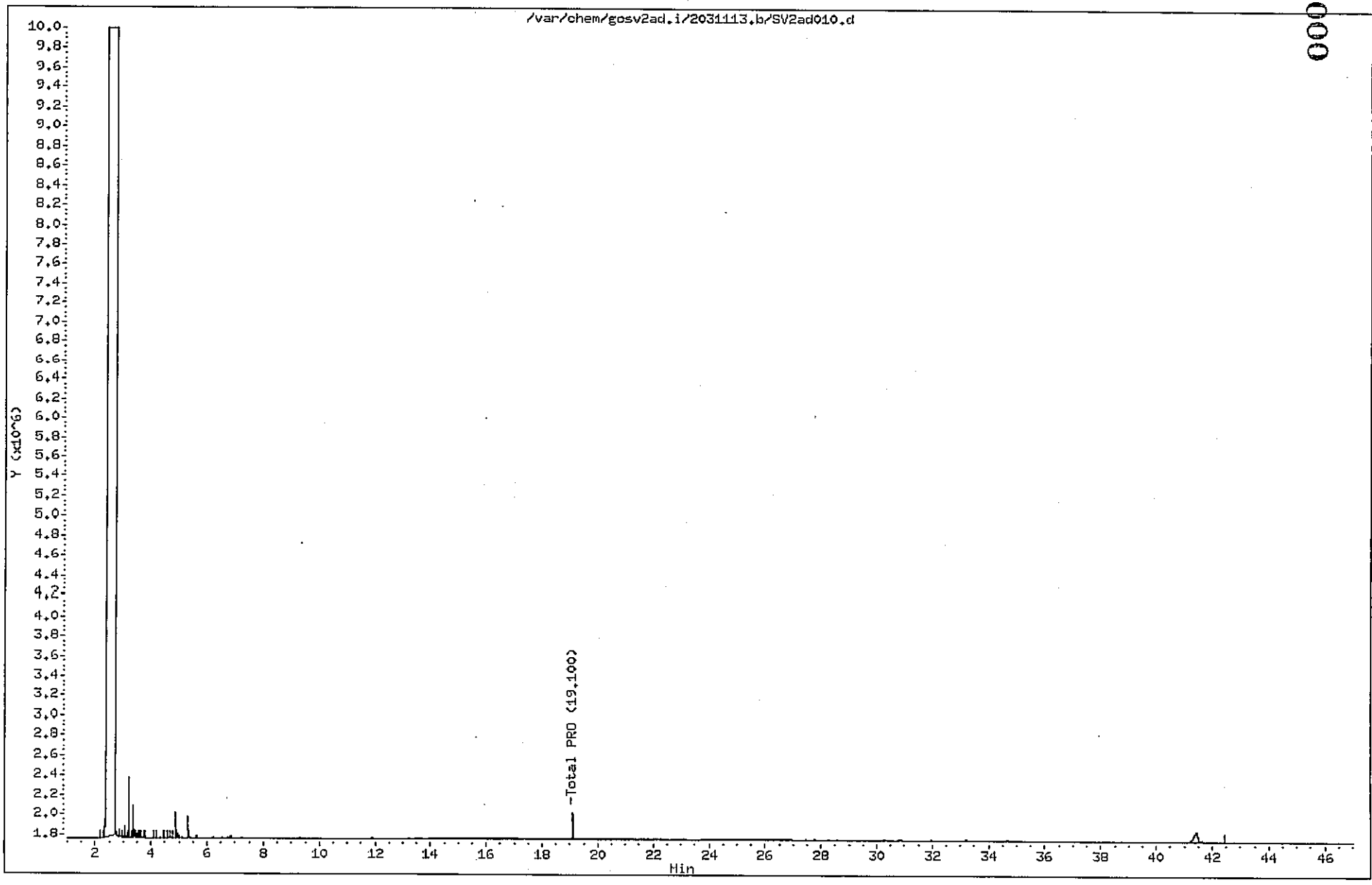
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.100	19.134	-0.034	6002121	17.0101	1360.8089
$ 18 Nonatriacontane	41.434	41.635	-0.201	9342063	101.425	8114.0219

15,344,184

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad010.d
Date : 13-NOV-2003 19:11
Client ID:
Sample Info: 20311062405-1.0-GCSV"30xx"-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000779



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad031.d
Lab Smp Id: 203110624 06
Inj Date : 14-NOV-2003 15:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 203110624 06-5.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 31
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	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	11.915	12.661	-0.746	1942570044	6882.38	2752953.7381(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{(1942570044 - 5043374)}{182759} \cdot \frac{2}{25} \cdot 1000 = 4{,}240{,}000$ ug/Kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad031s.d
Lab Smp Id: 20311062406
Inj Date : 14-NOV-2003 15:14
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062406-5.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 31
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: CH2M.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	5.00000	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	19.098	19.134	-0.036	1657656	4.69782	1879.1299
$ 18 Nonatriacontane	41.389	41.635	-0.246	3385718	36.7582	14703.2782(R)

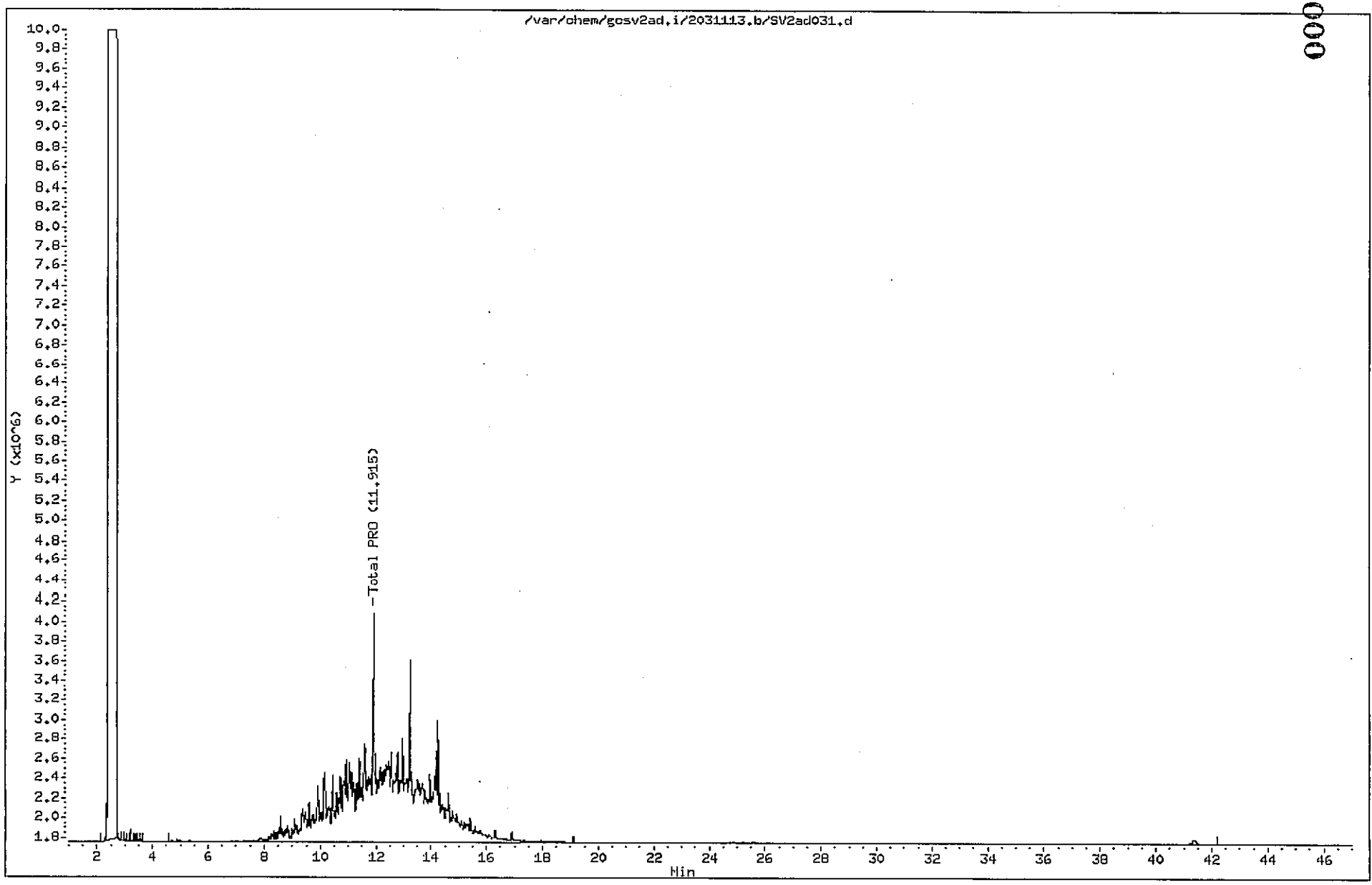
QC Flag Legend

5043374

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad031.d
Date : 14-NOV-2003 15:14
Client ID:
Sample Info: 20311062406-5.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000781

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad014.d
Lab Smp Id: 20311062407
Inj Date : 13-NOV-2003 22:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062407-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.115	12.661	6.454	1812564627	6421.78	513742.7688(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{1812564627 - 1463027}{182759} \cdot \frac{2}{25} \cdot 1000 = 787{,}000\ ug/Kg$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad014s.d
Lab Smp Id: 20311062407
Inj Date : 13-NOV-2003 22:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062407-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

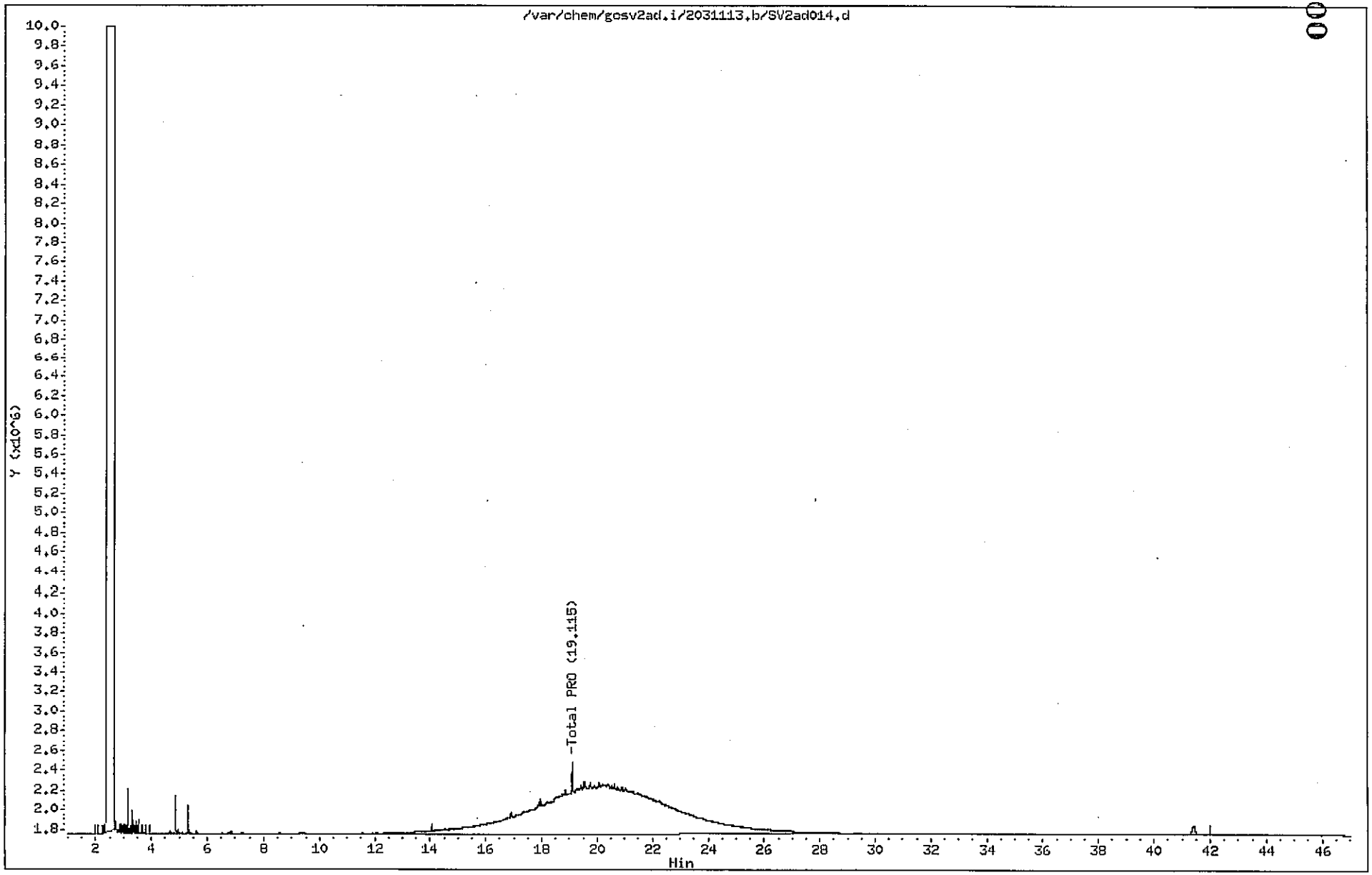
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.113	19.134	-0.021	7406491	20.9901	1679.2095
$ 18 Nonatriacontane	41.426	41.635	-0.209	7224536	78.4356	6274.8500(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 1463,027

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad014.d
Date : 13-NOV-2003 22:59
Client ID:
Sample Info: 20311062407-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000754

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad015.d
Lab Smp Id: 20311062408
Inj Date : 13-NOV-2003 23:55
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062408-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.100	12.661	6.439	93914537	332.732	26618.5897(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{93914537 - 17916058}{182759} \cdot \frac{2}{25} \cdot 1000 = 33306 \text{ ug/Kg}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad015s.d
Lab Smp Id: 20311062408
Inj Date : 13-NOV-2003 23:55
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062408-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

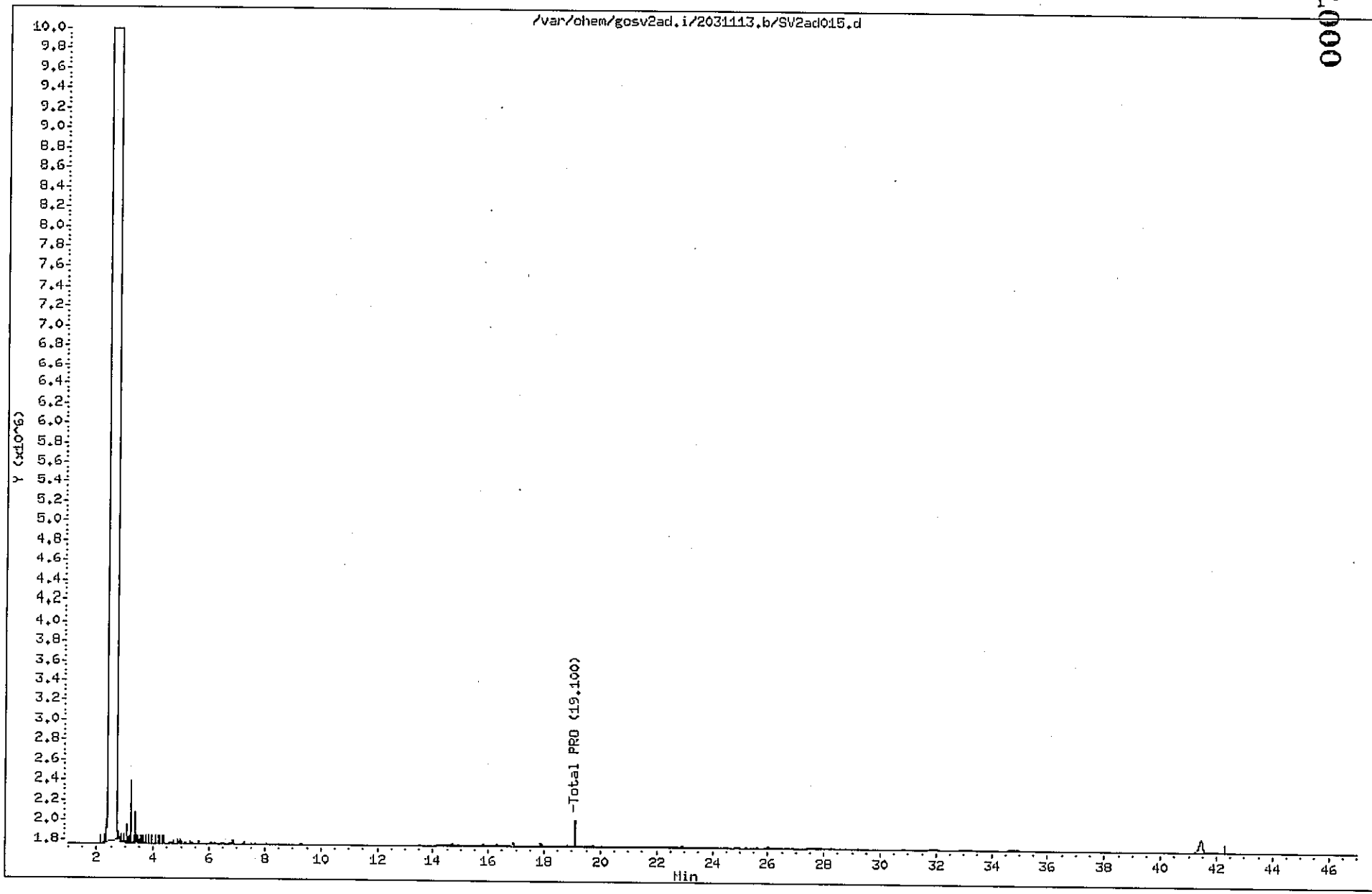
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.100	19.134	-0.034	6044297	17.1296	1370.3711
$ 18 Nonatriacontane	41.455	41.635	-0.180	11871761	128.890	10311.1839

17,916,058

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad015.d
Date : 13-NOV-2003 23:55
Client ID:
Sample Info: 20311062408-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000787



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad016.d
Lab Smp Id: 20311062409
Inj Date : 14-NOV-2003 00:52
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062409-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	13.225	12.661	0.564	842175645	2983.77	238701.3634(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{842175645 - 13,428,430}{182759} \cdot \frac{2}{25} \cdot 1000 = 363,000 ug/Kg$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad016s.d
Lab Smp Id: 20311062409
Inj Date : 14-NOV-2003 00:52
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062409-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.103	19.134	-0.031	5619060	15.9245	1273.9608
$ 18 Nonatriacontane	41.434	41.635	-0.201	7809370	84.7851	6782.8058(R)

QC Flag Legend

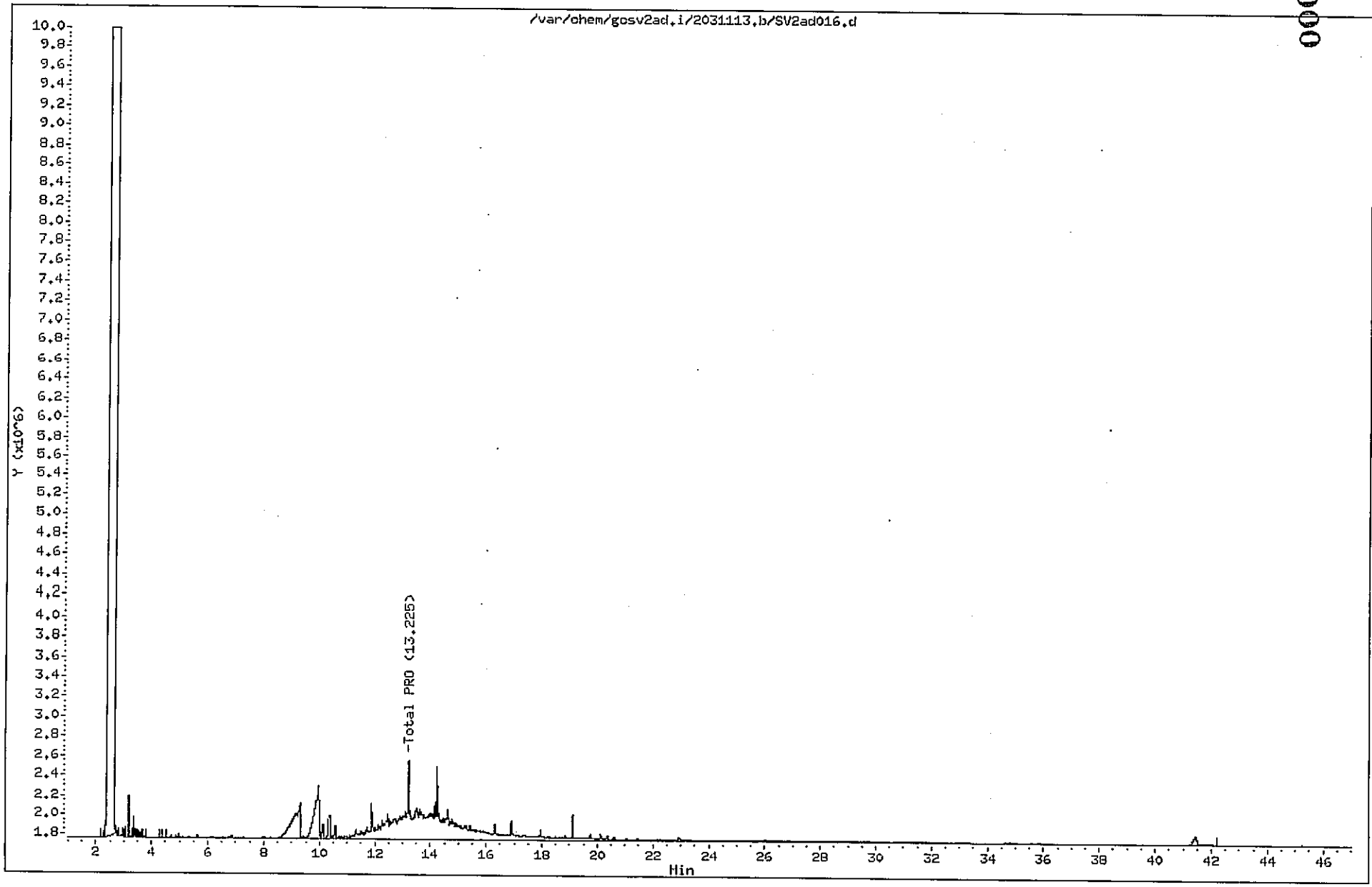
R - Spike/Surrogate failed recovery limits.

13428430

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad016.d
Date : 14-NOV-2003 00:52
Client ID:
Sample Info: 20311062409-1.0-GCSV~30xx~-203110624--oh2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000790



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad017.d
Lab Smp Id: 20311062410
Inj Date : 14-NOV-2003 01:48
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062410-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/Kg)
20 Total PRO	19.105	12.661	6.444	215217199	762.499	60999.9103(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{215217199 - 12081809}{182759} \cdot \frac{2}{25} \cdot 1000 = 88{,}900$ ug/Kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad017s.d
Lab Smp Id: 20311062410
Inj Date : 14-NOV-2003 01:48
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062410-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.104	19.134	-0.030	5617152	15.9191	1273.5282
$ 18 Nonatriacontane	41.440	41.635	-0.195	6464657	70.1857	5614.8592(R)

QC Flag Legend

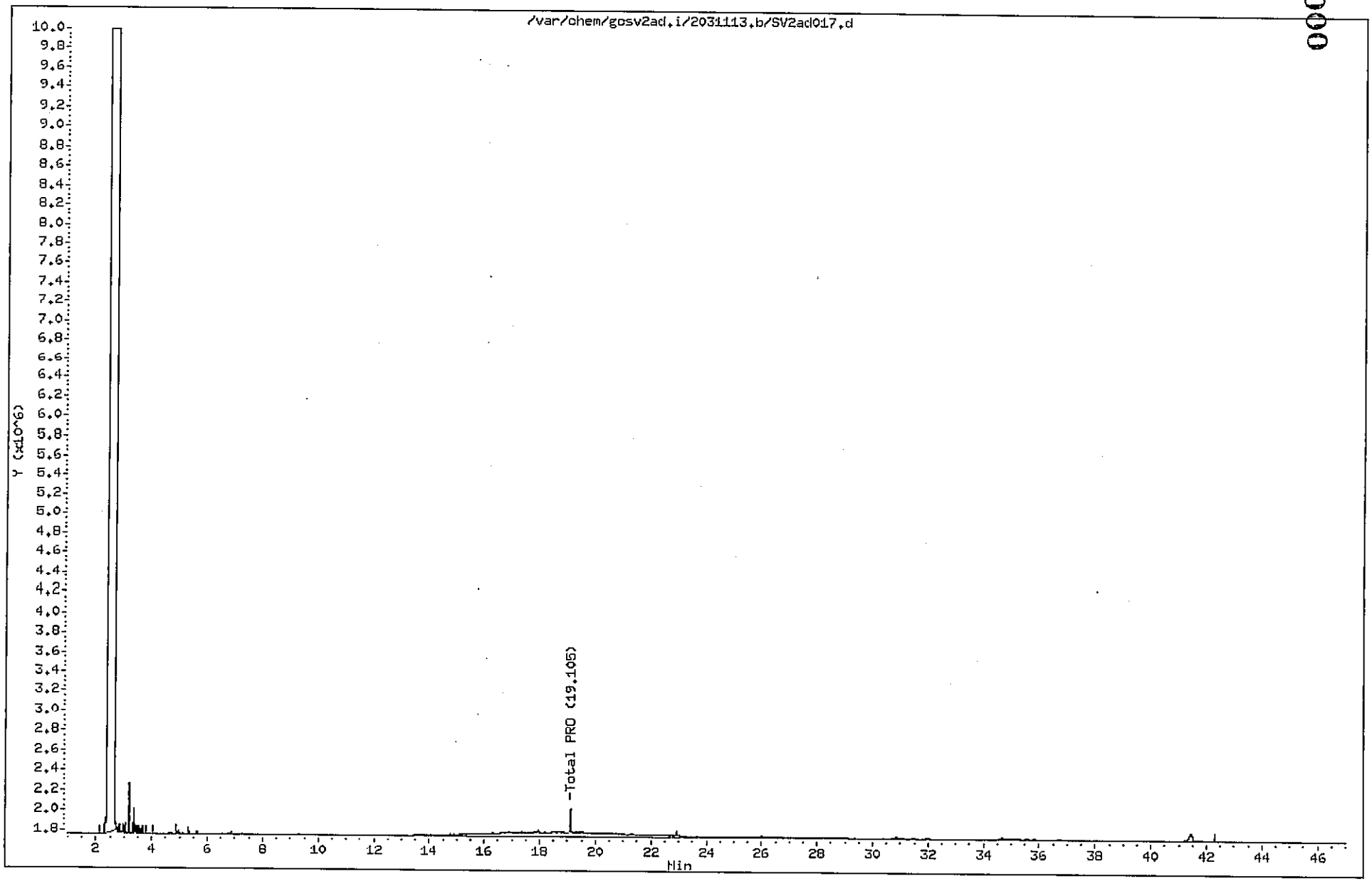
R - Spike/Surrogate failed recovery limits. 12081809

Data File: /var/chem/gcsv2ad.i/2031113.b/SV2ad017.d
Date : 14-NOV-2003 01:48
Client ID:
Sample Info: 20311062410-1.0-GCSV"30xx"-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i

Operator: tls
Column diameter: 0.53

000793



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad018.d
Lab Smp Id: 20311062411
Inj Date : 14-NOV-2003 02:45
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062411-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.105	12.661	6.444	63736263	225.813	18065.0354(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{63736263 - 16409567}{182759} \cdot \frac{2}{25} \cdot 1000 = 20,700 \text{ ug/Kg}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad018s.d
Lab Smp Id: 20311062411
Inj Date : 14-NOV-2003 02:45
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062411-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

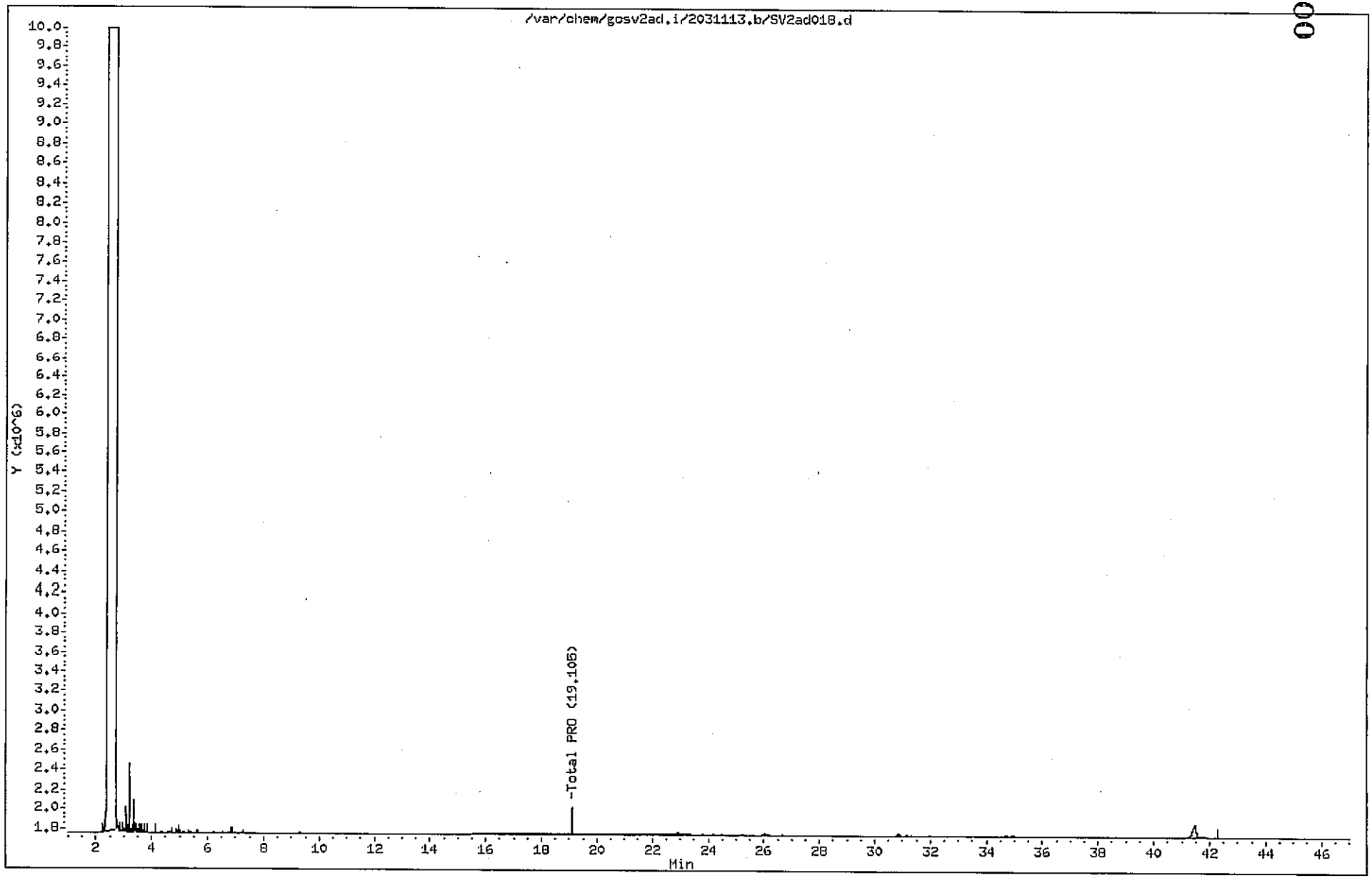
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.104	19.134	-0.030	6036475	17.1075	1368.5976
$ 18 Nonatriacontane	41.477	41.635	-0.158	10373092	112.619	9009.5192

16,409,567

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad018.d
Date : 14-NOV-2003 02:45
Client ID:
Sample Info: 20311062411-1.0-GCSV"30:ox"-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



967000

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad019.d
Lab Smp Id: 20311062412
Inj Date : 14-NOV-2003 03:41
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062412-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.110	12.661	6.449	797775930	2826.46	226116.9665(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{797775930 - 16418482}{182759} \cdot \frac{2}{25} \cdot 1000 = 342{,}000\ ug/kg$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad019s.d
Lab Smp Id: 20311062412
Inj Date : 14-NOV-2003 03:41
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062412-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

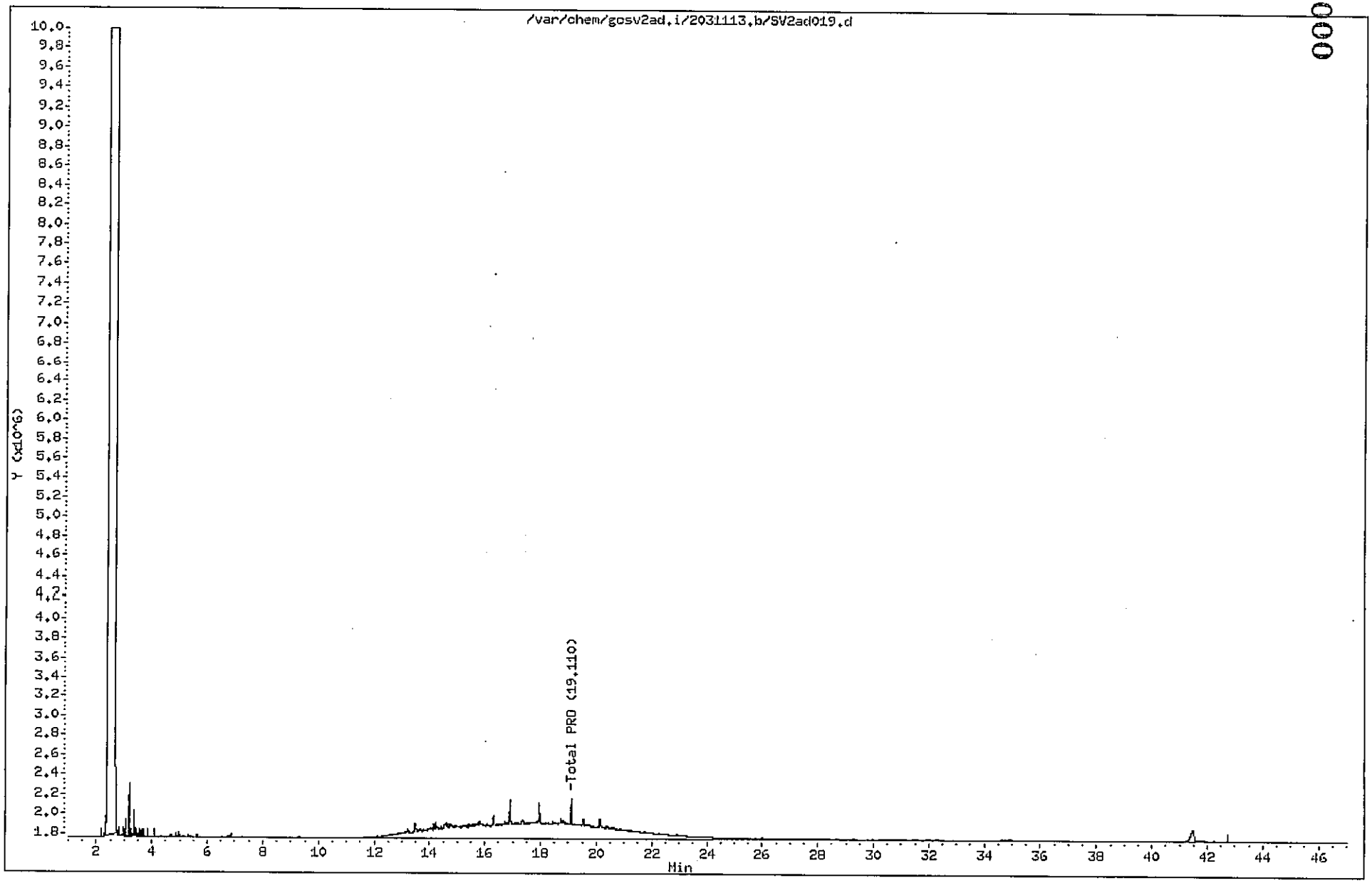
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.110	19.134	-0.024	6214818	17.6129	1409.0318
$ 18 Nonatriacontane	41.484	41.635	-0.151	10403664	112.951	9036.0724

16618482

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad019.d
Date : 14-NOV-2003 03:41
Client ID:
Sample Info: 20311062412-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad020.d
Lab Smp Id: 20311062413
Inj Date : 14-NOV-2003 04:37
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062413-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.105	12.661	6.444	59046223	209.196	16735.7178(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{59046223 - 17998518}{182759} \cdot \frac{2}{25} \cdot 1000 = 17{,}900 \text{ ug/kg}$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad020s.d
Lab Smp Id: 20311062413
Inj Date : 14-NOV-2003 04:37
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062413-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

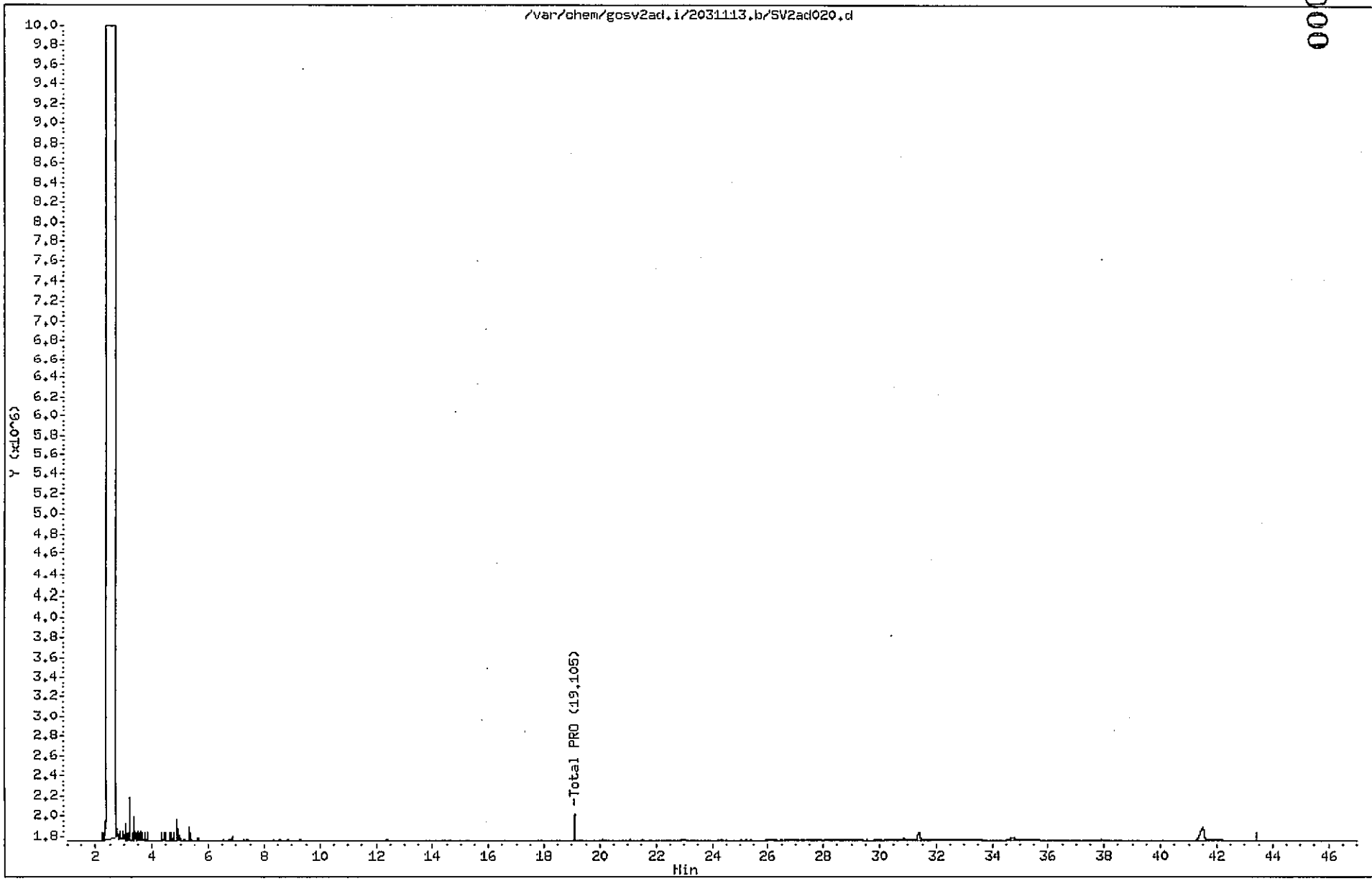
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.106	19.134	-0.028	6010292	17.0333	1362.6614
$ 18 Nonatriacontane	41.502	41.635	-0.133	11988226	130.154	10412.3392

17998518

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad020.d
Date : 14-NOV-2003 04:37
Client ID:
Sample Info: 20311062413-1.0-GCSV"30xx"-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

208000



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad021.d
Lab Smp Id: 20311062414
Inj Date : 14-NOV-2003 05:33
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062414-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.108	12.661	6.447	5644862	19.9993	1599.9468(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{5644862 - 12,483,126}{182759} \cdot \frac{2}{25} \cdot 1000 = CDL$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad021s.d
Lab Smp Id: 20311062414
Inj Date : 14-NOV-2003 05:33
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062414-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.107	19.134	-0.027	5777504	16.3735	1309.8834
$ 18 Nonatriacontane	41.477	41.635	-0.158	6705622	72.8019	5824.1487(R)

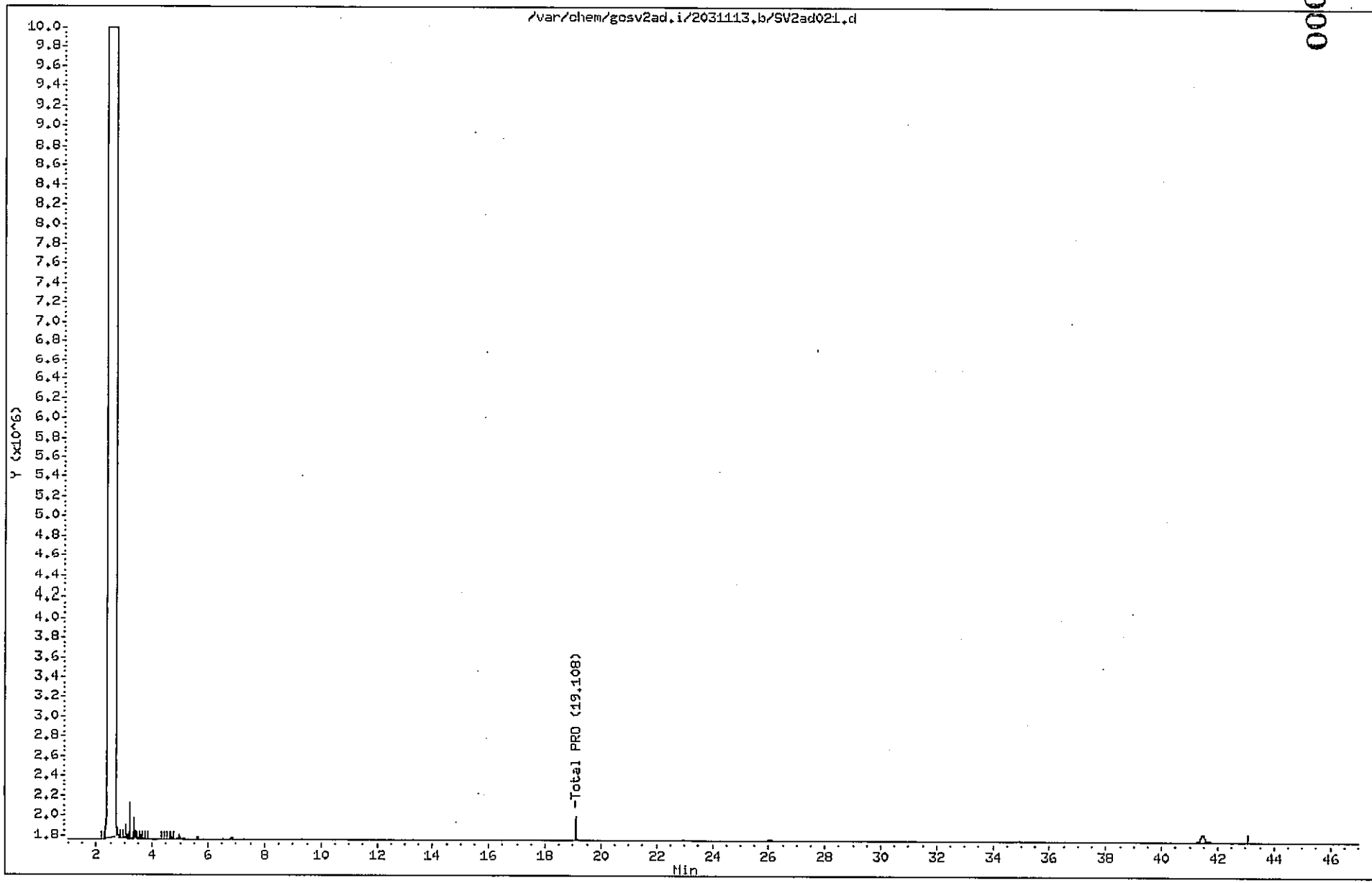
QC Flag Legend

R - Spike/Surrogate failed recovery limits. 12,483,126

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad021.d
Date : 14-NOV-2003 05:33
Client ID:
Sample Info: 20311062414-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000805



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad022.d
Lab Smp Id: 20311062415
Inj Date : 14-NOV-2003 06:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062415-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	4.885	12.661	-7.776	35095665	124.341	9947.3110(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{35095665 - 13572919}{182759} \cdot \frac{2}{25} \cdot 1000 = 9420$ ug/Kg

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad022s.d
Lab Smp Id: 20311062415
Inj Date : 14-NOV-2003 06:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062415-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.106	19.134	-0.028	5950539	16.8639	1349.1141
$ 18 Nonatriacontane	41.478	41.635	-0.157	7622380	82.7550	6620.3962(R)

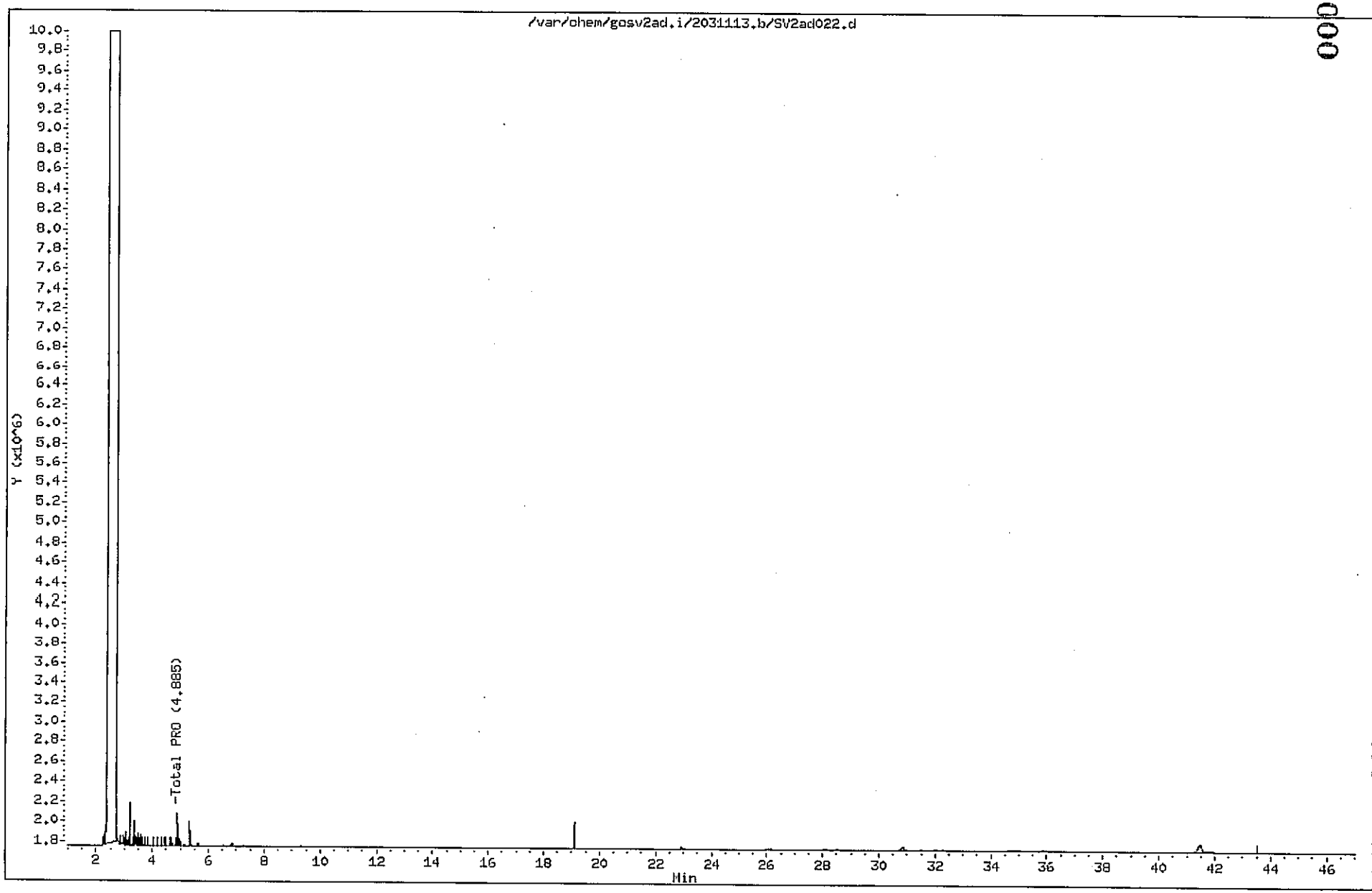
QC Flag Legend

R - Spike/Surrogate failed recovery limits. 13572919

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad022.d
Date : 14-NOV-2003 06:29
Client ID:
Sample Info: 20311062415-1.0-GCSV~30xx~-203110624--oh2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000808



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad023.d
Lab Smp Id: 20311062416
Inj Date : 14-NOV-2003 07:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062416-1.0-GCSV~30xx~-203110624--MS ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 23 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	17.952	12.661	5.291	6215331362	22020.5	1761637.3483(RM)

QC Flag Legend

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

$$\frac{6{,}215{,}331{,}362 - 16{,}081{,}441}{182759} \cdot \frac{2}{25} \cdot 1000 = 2{,}710{,}000$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad023s.d
Lab Smp Id: 20311062416
Inj Date : 14-NOV-2003 07:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062416-1.0-GCSV~30xx~-203110624--MS ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 23 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.154	19.134	0.020	10377716	29.4106	2352.8496(R)
$ 18 Nonatriacontane	41.473	41.635	-0.162	5703725	61.9244	4953.9539(R)

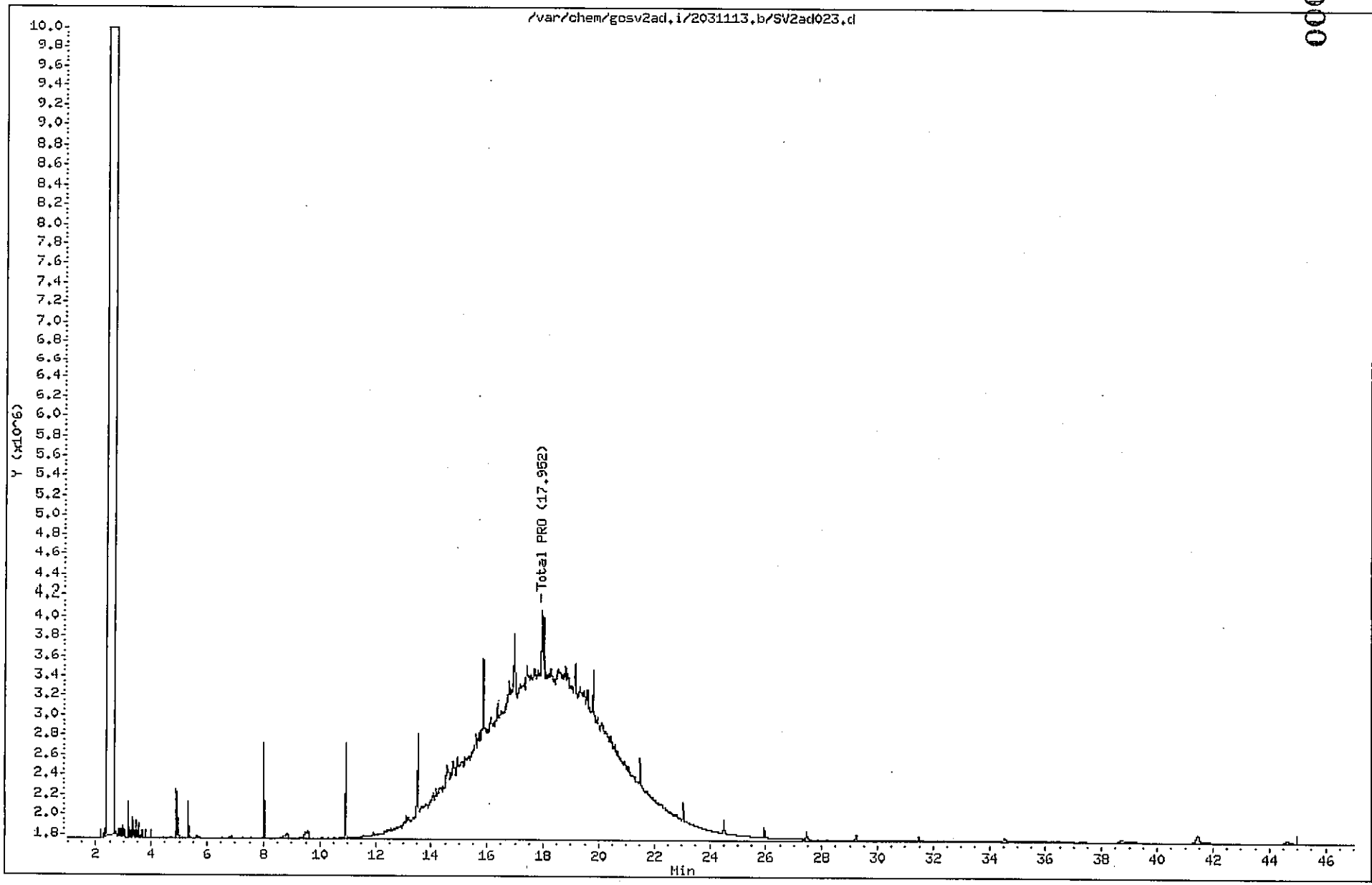
QC Flag Legend

R - Spike/Surrogate failed recovery limits. 1608141

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad023.d
Date : 14-NOV-2003 07:24
Client ID:
Sample Info: 20311062416-1.0-GCSV~30xx~-203110624--HS ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000811



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad025.d
Lab Smp Id: 20311062417
Inj Date : 14-NOV-2003 09:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062417-1.0-GCSV~30xx~-203110624--MSD ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	17.948	12.661	5.287	5987863903	21214.6	1697165.2956(RM)

QC Flag Legend

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

$\frac{5987863903 - 14121989}{182759} \cdot \frac{2}{25} \cdot 1000 = 2610,000$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad025s.d
Lab Smp Id: 20311062417
Inj Date : 14-NOV-2003 09:30
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062417-1.0-GCSV~30xx~-203110624--MSD ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 25 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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	19.153	19.134	0.019	9447844	26.7753	2142.0278
$ 18 Nonatriacontane	41.438	41.635	-0.197	4674145	50.7464	4059.7152(R)

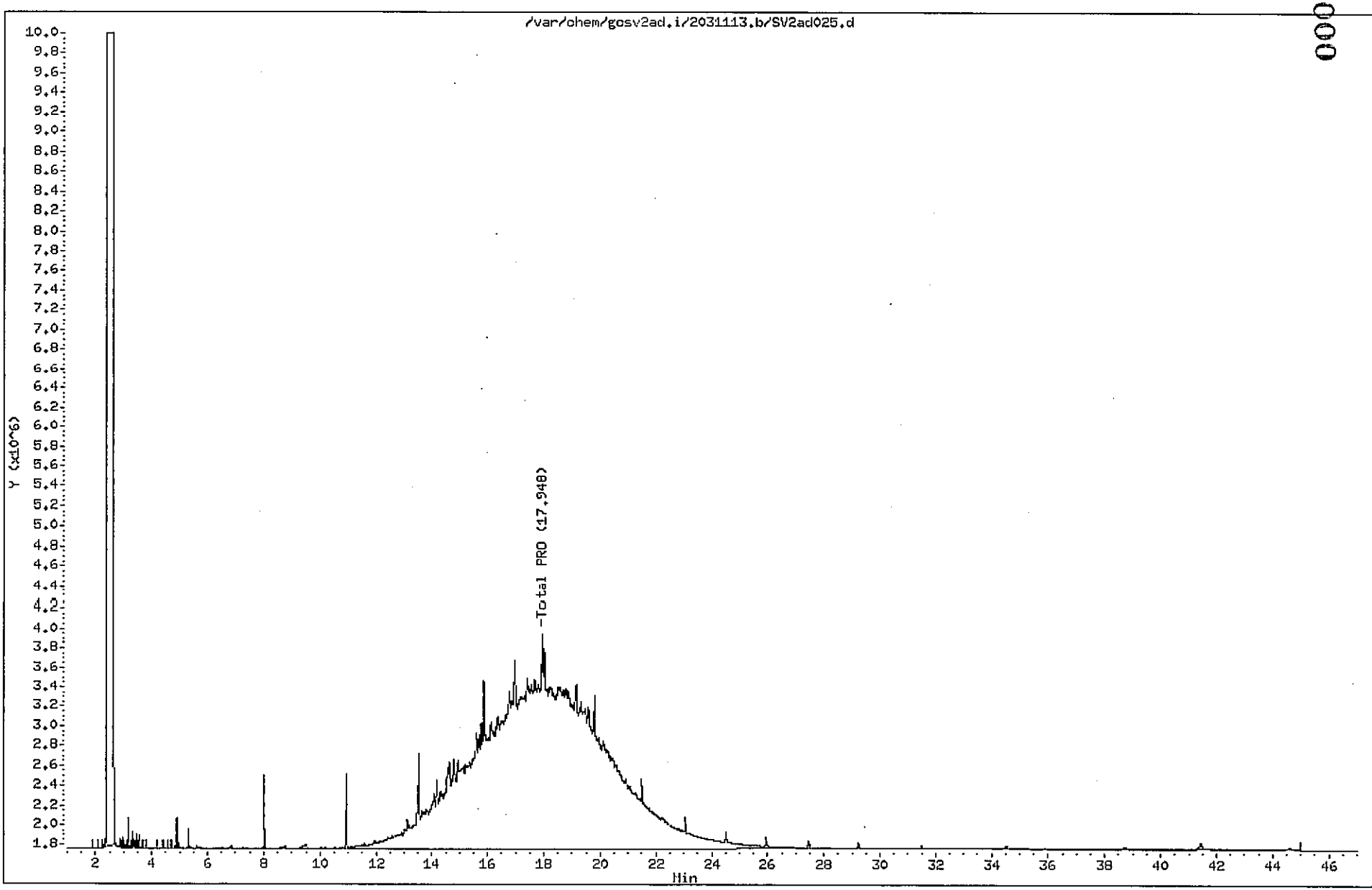
QC Flag Legend

R - Spike/Surrogate failed recovery limits. 1412989

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad025.d
Date : 14-NOV-2003 09:30
Client ID:
Sample Info: 20311062417-1.0-CCSV~30xx~-203110624--HSD oh2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000814



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad032.d
Lab Smp Id: 20311062418
Inj Date : 14-NOV-2003 16:11
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062418-5.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 32
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	5.00000	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	11.903	12.661	-0.758	1285333856	4553.84	1821537.7378(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{(128533856 - 3589016)}{182759} \cdot \frac{2}{25} \cdot 1000 = 273{,}000\ ug/Kg$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad032s.d
Lab Smp Id: 20311062418
Inj Date : 14-NOV-2003 16:11
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062418-5.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 32
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: CH2M.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	5.00000	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

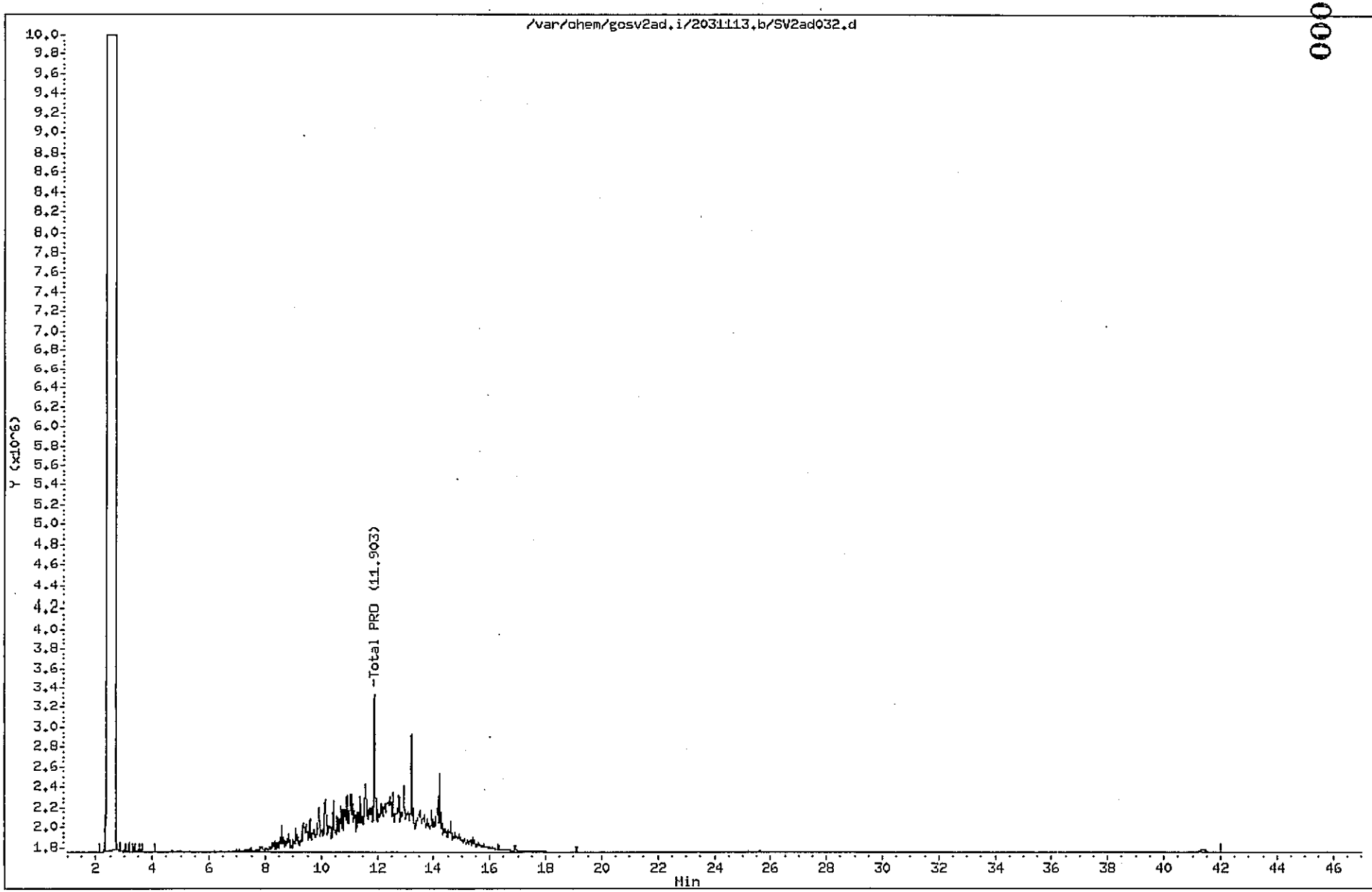
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.099	19.134	-0.035	1303826	3.69506	1478.0258
$ 18 Nonatriacontane	41.401	41.635	-0.234	2285190	24.8099	9923.9760

3589016

Data File: /var/chem/gcsv2ad.i/2031113.b/SV2ad032.d
Date : 14-NOV-2003 16:11
Client ID:
Sample Info: 20311062418-5.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53

000817



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad027.d
Lab Smp Id: 20311062419
Inj Date : 14-NOV-2003 11:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062419-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.100	12.661	6.439	9534462	33.7799	2702.3924(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{9534462 - 11835284}{182759} \cdot \frac{2}{25} \cdot 1000 = < DL$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad027s.d
Lab Smp Id: 20311062419
Inj Date : 14-NOV-2003 11:24
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 20311062419-1.0-GCSV~30xx~-203110624--ch2m 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

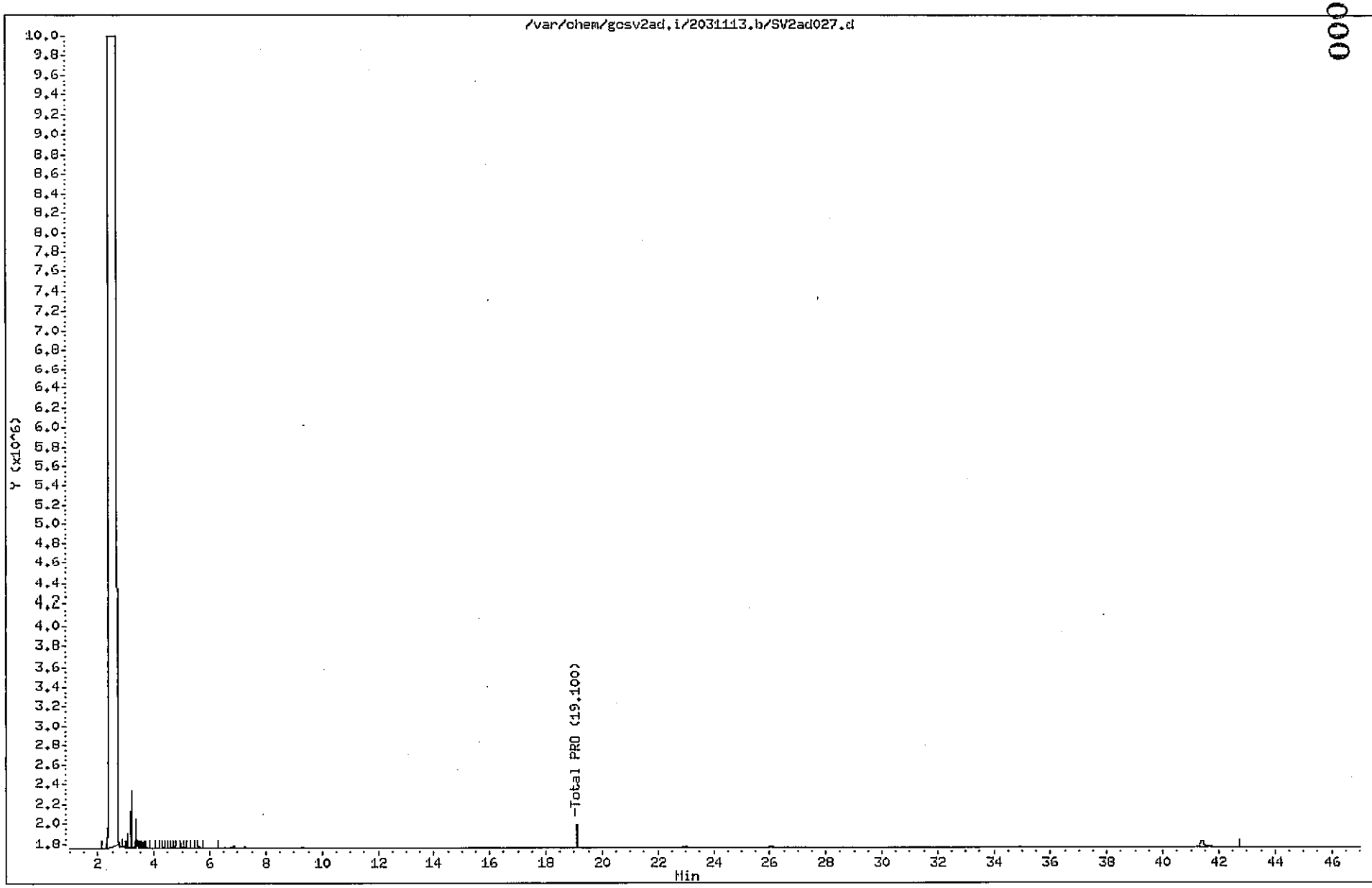
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.100	19.134	-0.034	5720177	16.2111	1296.8861
$ 18 Nonatriacontane	41.418	41.635	-0.217	6115107	66.3907	5311.2586(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 11835284

Data File: /var/chem/gcsv2ad.i/2031113.b/SV2ad027.d
Date : 14-NOV-2003 11:24
Client ID:
Sample Info: 20311062419-1.0-GCSV~30xx~-203110624--ch2m 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53



028000

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad095.d
Lab Smp Id: 20311062420
Inj Date : 12-NOV-2003 19:52
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 20311062420-1.0-GCSV~30xx~-203110624--ch2m 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 95
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	19.112	4.942	14.170	29712429	105.269	210.5379(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{29712429 - 29440062}{182759} \cdot \frac{2}{1000} \cdot 1000 = 3\ ug/L$ <DL

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad095s.d
Lab Smp Id: 20311062420
Inj Date : 12-NOV-2003 19:52
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 20311062420-1.0-GCSV~30xx~-203110624--ch2m 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 95
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.112	19.134	-0.022	9966420	28.2450	56.4900(M)
$ 18 Nonatriacontane	41.543	41.635	-0.092	19473642	211.422	422.8443(RM)

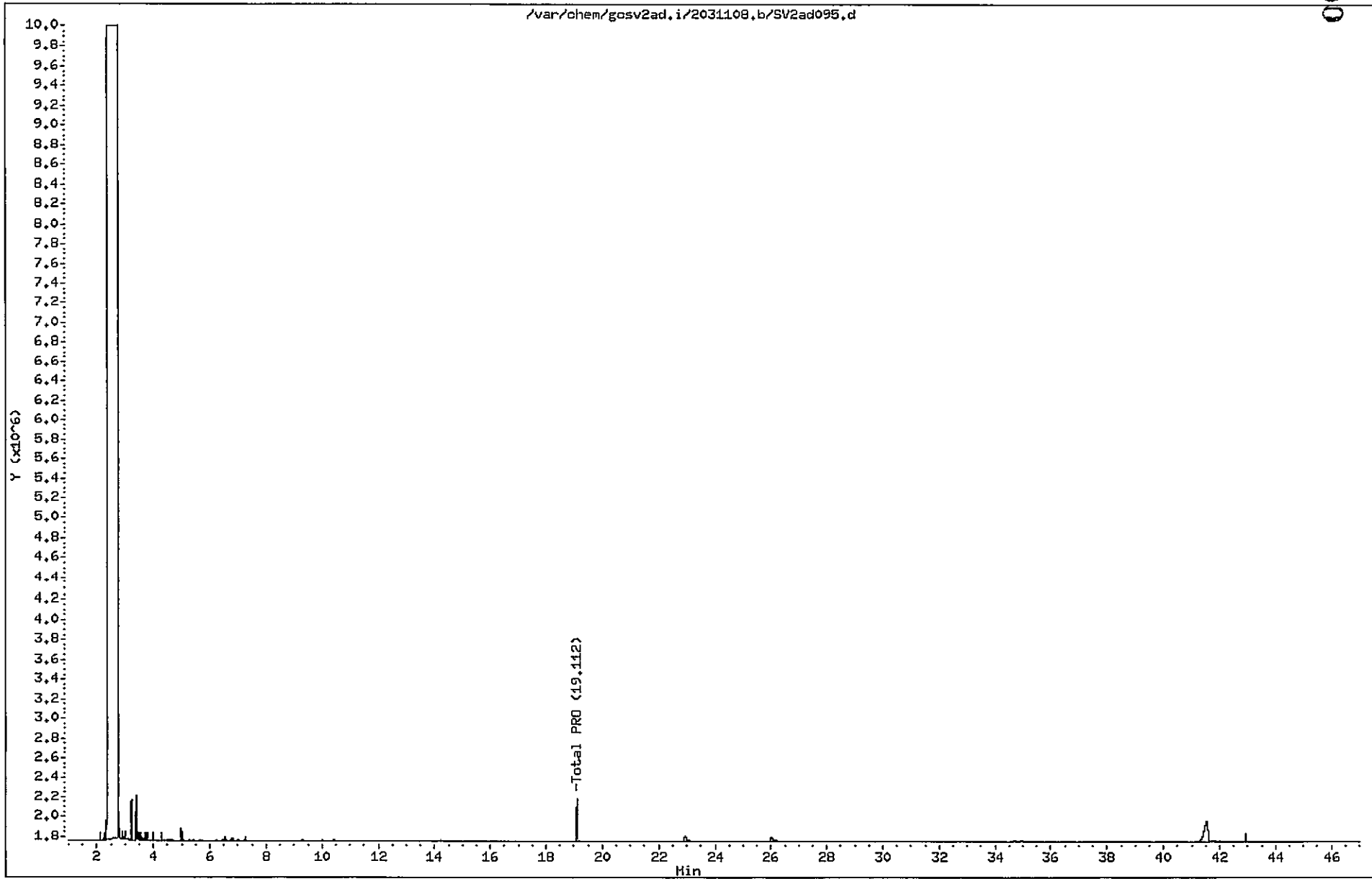
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated. 29440062

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad095.d
Date : 12-NOV-2003 19:52
Client ID:
Sample Info: 20311062420-1.0-GCSV"30xx"-203110624--ch2m 1000 10
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: dlb
Column diameter: 0.53

000823



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad096.d
Lab Smp Id: 20311062421
Inj Date : 12-NOV-2003 20:49
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 20311062421-1.0-GCSV~30xx~-203110624--ch2m 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 96
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	19.112	4.942	14.170	15677484	55.5442	111.0883(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{15677484 - 2216746}{182759} \cdot \frac{2}{1000} \cdot 1000 =$ <DL

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad096s.d
Lab Smp Id: 20311062421
Inj Date : 12-NOV-2003 20:49
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 20311062421-1.0-GCSV~30xx~-203110624--ch2m 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 96
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

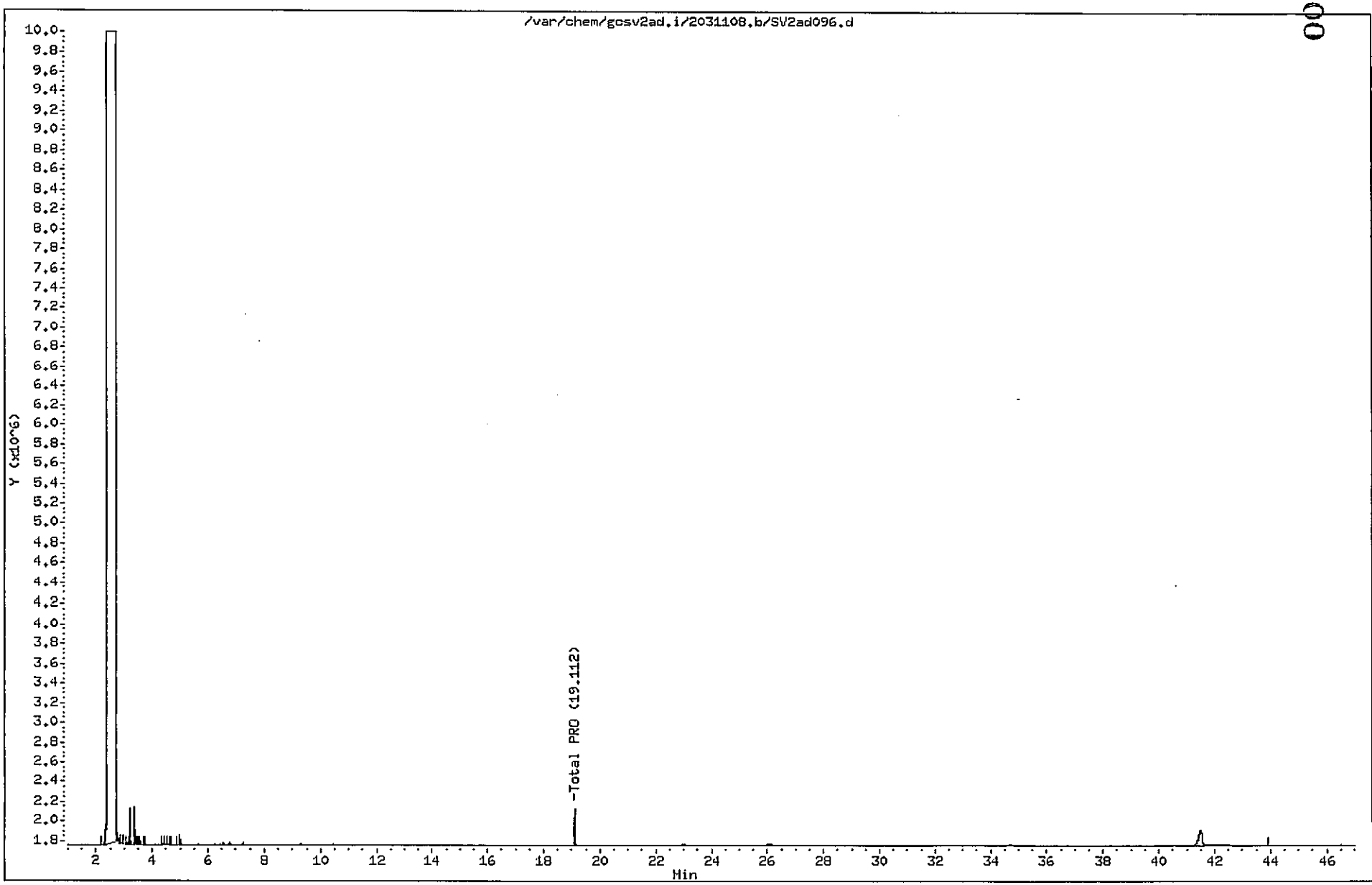
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	19.111	19.134	-0.023	8610817	24.4032	48.8063
$ 18 Nonatriacontane	41.504	41.635	-0.131	13557129	147.188	294.3751

22167946

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad096.d
Date : 12-NOV-2003 20:49
Client ID:
Sample Info: 20311062421-1.0-GCSV~30xx~-203110624--ch2m 1000 10
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: dlb
Column diameter: 0.53

000926



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad002.d
Lab Smp Id: 6 PPM
Inj Date : 08-NOV-2003 10:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 6 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:28 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 10:59 Cal File: SV2ad002.d
Als bottle: 2 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	19.130	7.616	11.514	59939244	102.000	207.6635(M)

QC Flag Legend

M - Compound response manually integrated.

59939244 - 47848044
102

118541

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad002S.d
Lab Smp Id: 6 PPM
Inj Date : 08-NOV-2003 10:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 6 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:46 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 10:59 Cal File: SV2ad002S.d
Als bottle: 2 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

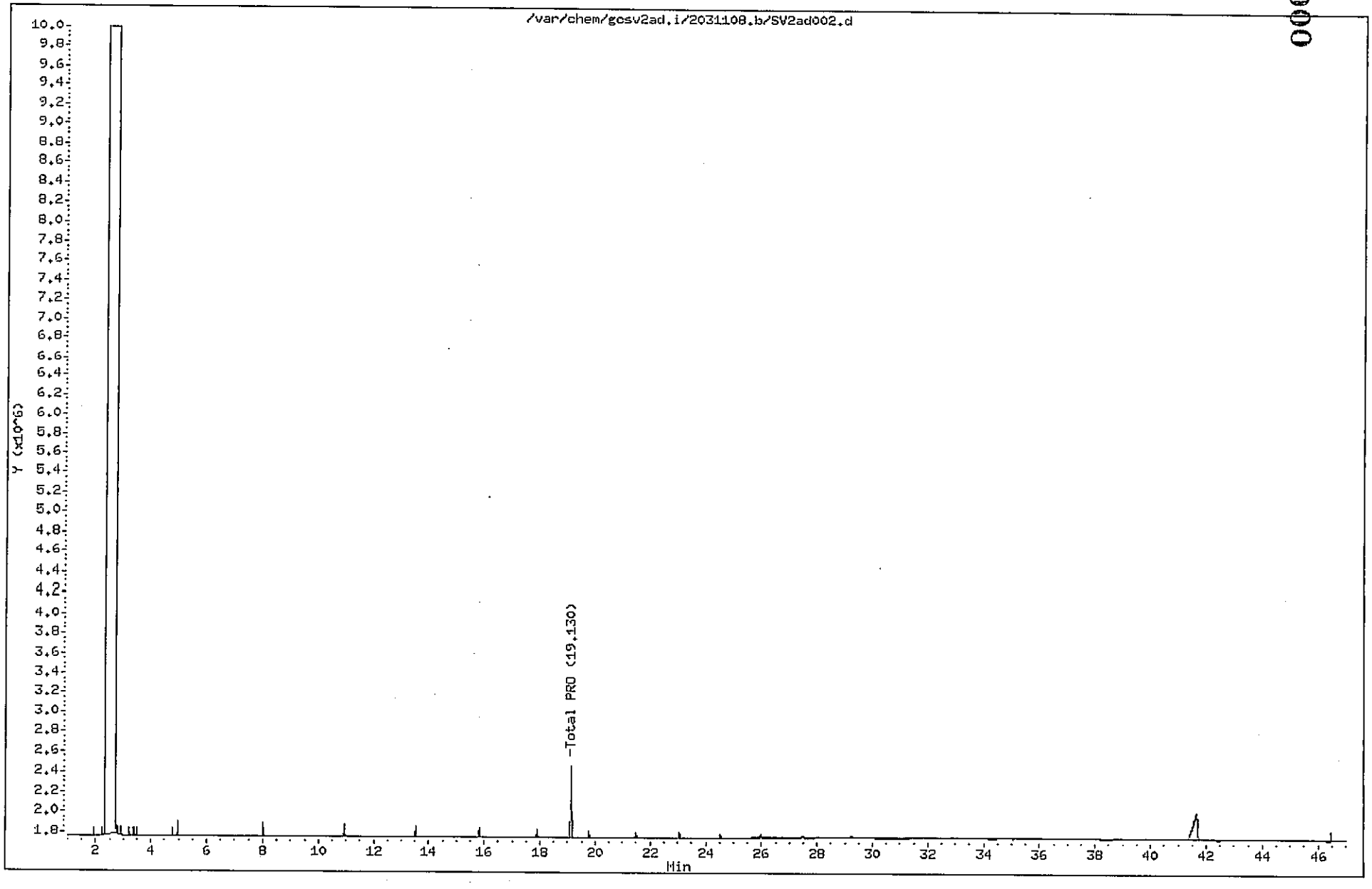
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	19.129	19.137	-0.008	17277539	50.0000	50.0000
$ 18 Nonatriacontane	41.645	41.637	0.008	30570505	300.000	300.0000

47848044

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad002.d
Date : 08-NOV-2003 10:59
Client ID:
Sample Info: 6 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i

Operator: tls
Column diameter: 0.53



000829

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad003.d
Lab Smp Id: 50 PPM
Inj Date : 08-NOV-2003 11:57
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 50 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:43 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 11:57 Cal File: SV2ad003.d
Als bottle: 3 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	8.023	7.616	0.407	198278319	850.000	702.4856(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{198278319 - \cancel{20377016}\ 47397716}{850} = \cancel{269295}\ 177507$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad003s.d
Lab Smp Id: 50 PPM
Inj Date : 08-NOV-2003 11:57
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 50 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:46 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 11:57 Cal File: SV2ad003s.d
Als bottle: 3 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	19.131	19.135	-0.004	17374676	50.0000	50.1401
$ 18 Nonatriacontane	41.640	41.638	0.002	30023040	300.000	297.2894

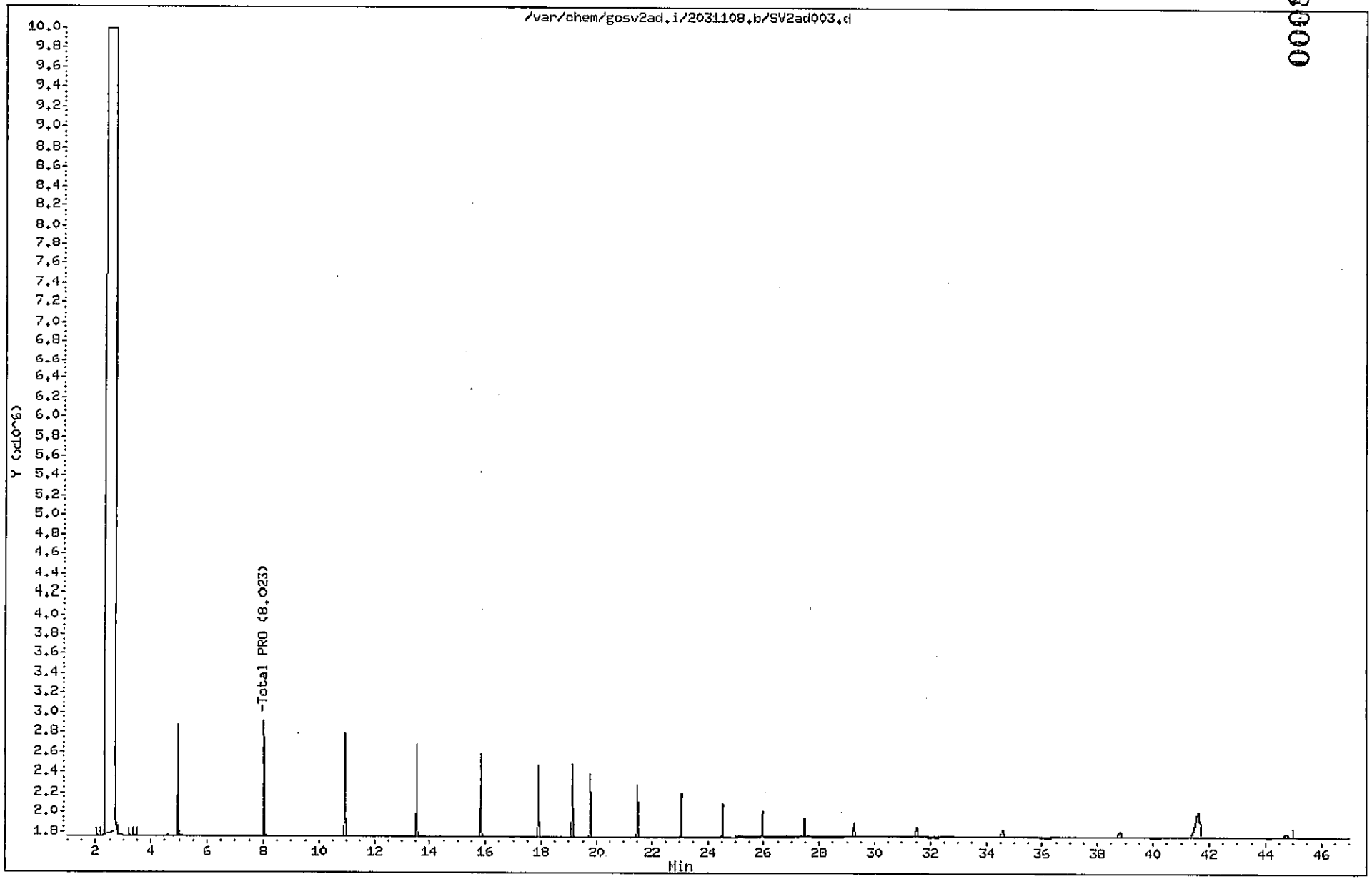
~~26377076~~ SAB 11/09/03

47397716

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad003.d
Date : 08-NOV-2003 11:57
Client ID:
Sample Info: 50 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000832



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad004.d
Lab Smp Id: 150 PPM
Inj Date : 08-NOV-2003 13:01
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 150 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:43 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 4 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	8.038	7.616	0.422	580368574	2250.00	2056.2036(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{580368574 - 48030913}{2550}$ 208759

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad004s.d
Lab Smp Id: 150 PPM
Inj Date : 08-NOV-2003 13:01
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 150 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:46 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004s.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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

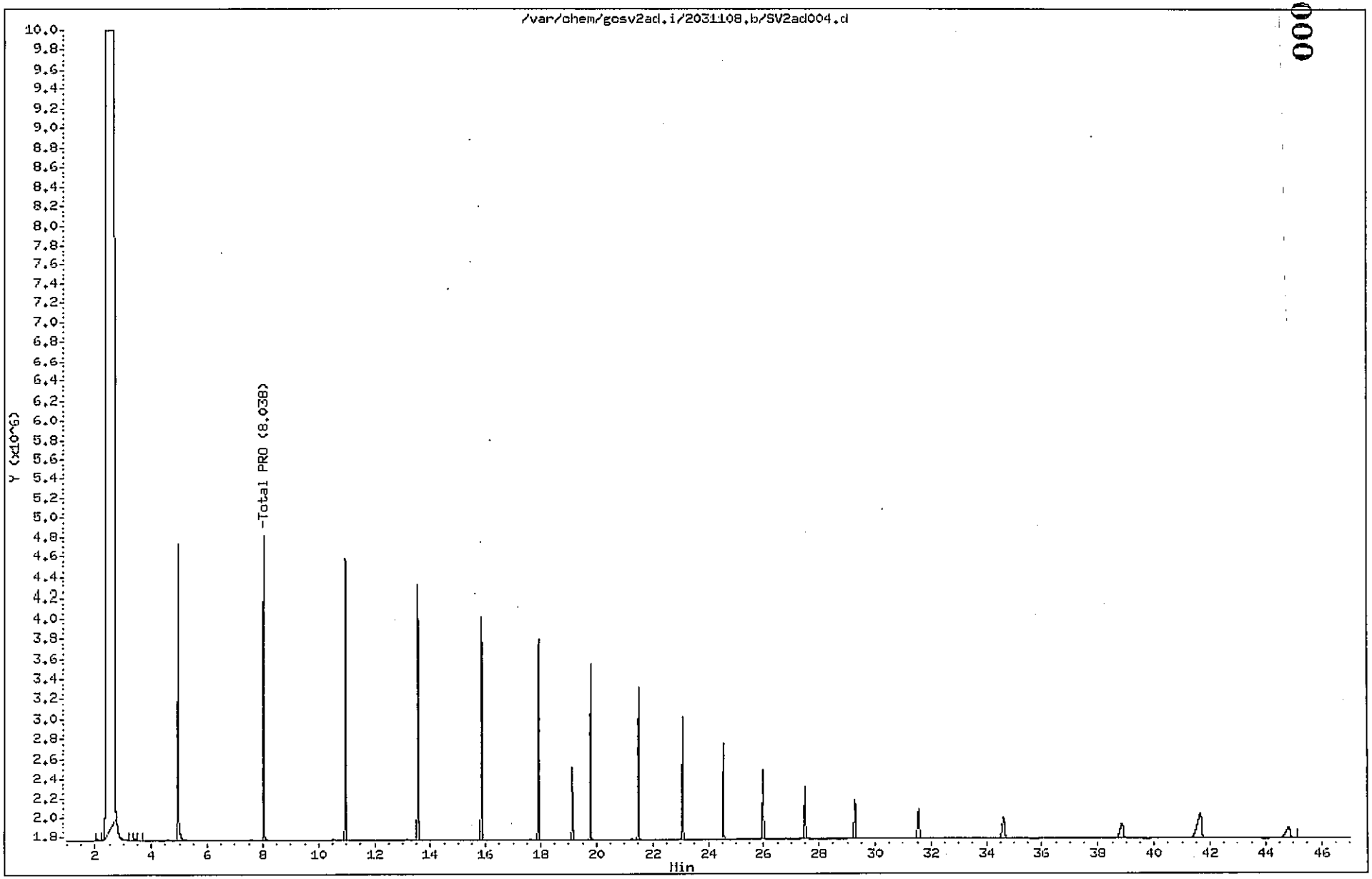
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	19.135	19.135	0.000	18123144	50.0000	51.5102
$ 18 Nonatriacontane	41.651	41.638	0.013	29907769	300.000	297.4210

48030913

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad004.d
Date : 08-NOV-2003 13:01
Client ID:
Sample Info: 150 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53

000835



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad005.d
Lab Smp Id: 250 PPM
Inj Date : 08-NOV-2003 13:58
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 250 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:28 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:58 Cal File: SV2ad005.d
Als bottle: 5 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	8.048	7.616	0.432	953698003	4250.00	3304.1502(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{953698003 - 49629007}{4250}$$

212722

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad005S.d
Lab Smp Id: 250 PPM
Inj Date : 08-NOV-2003 13:58
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 250 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:47 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:58 Cal File: SV2ad005S.d
Als bottle: 5 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	19.132	19.135	-0.003	17510548	50.0000	49.8266
$ 18 Nonatriacontane	41.651	41.638	0.013	32118459	300.000	314.3224

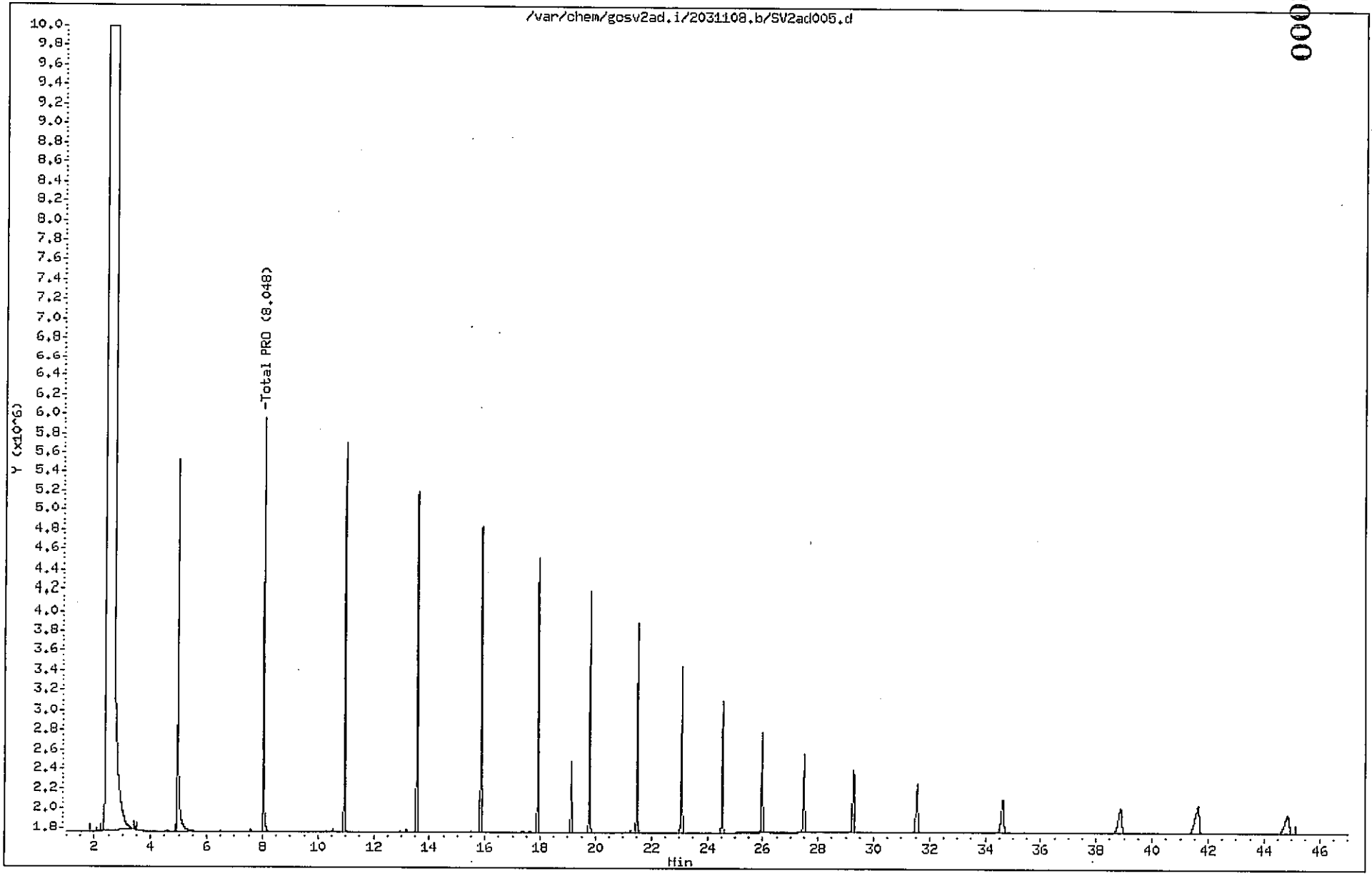
4962900 7

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad005.d
Date : 08-NOV-2003 13:58
Client ID:
Sample Info: 250 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i

Operator: tls
Column diameter: 0.53

000833



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad008.d
Lab Smp Id: 350 PPM
Inj Date : 08-NOV-2003 16:57
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 350 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:28 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008.d
Als bottle: 8 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	8.053	7.616	0.437	1146272914	5950.00	3971.3388(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{1146272914 - 39097000}{5950}$ 186079

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad008S.d
Lab Smp Id: 350 PPM
Inj Date : 08-NOV-2003 16:57
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 350 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:47 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	19.137	19.135	0.002	18132661	50.0000	51.3882
$ 18 Nonatriacontane	41.637	41.638	-0.001	20964339	300.000	227.6064

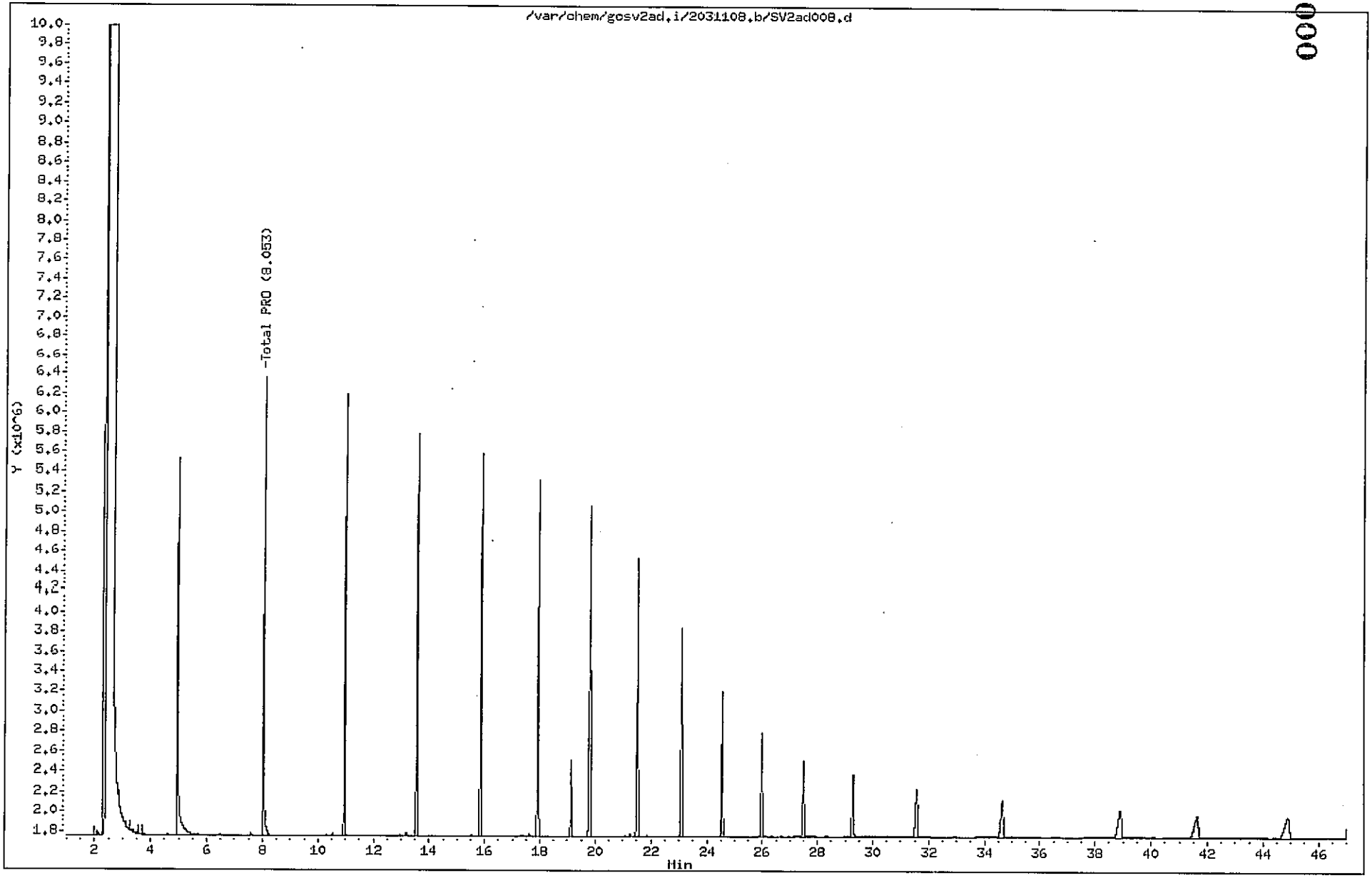
39097000

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad008.d
Date : 08-NOV-2003 16:57
Client ID:
Sample Info: 350 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i

Operator: tls
Column diameter: 0.53

000841



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad007.d
Lab Smp Id: 500 PPM
Inj Date : 08-NOV-2003 15:52
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 500 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 08-Nov-2003 18:28 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 15:52 Cal File: SV2ad007.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	4.975	7.616	-2.641	1679724005	8500.00	5819.5156(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{1679724005 - 39648252}{8500} \quad 192950$$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad007s.d
Lab Smp Id: 500 PPM
Inj Date : 08-NOV-2003 15:52
Operator : tls
Inst ID: gcsv2ad.i
Smp Info : 500 PPM
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 08-Nov-2003 17:47 tls
Quant Type: ESTD
Cal Date : 08-NOV-2003 15:52
Cal File: SV2ad007s.d
Als bottle: 7
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP Genie
Compound Sublist: flsurr.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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

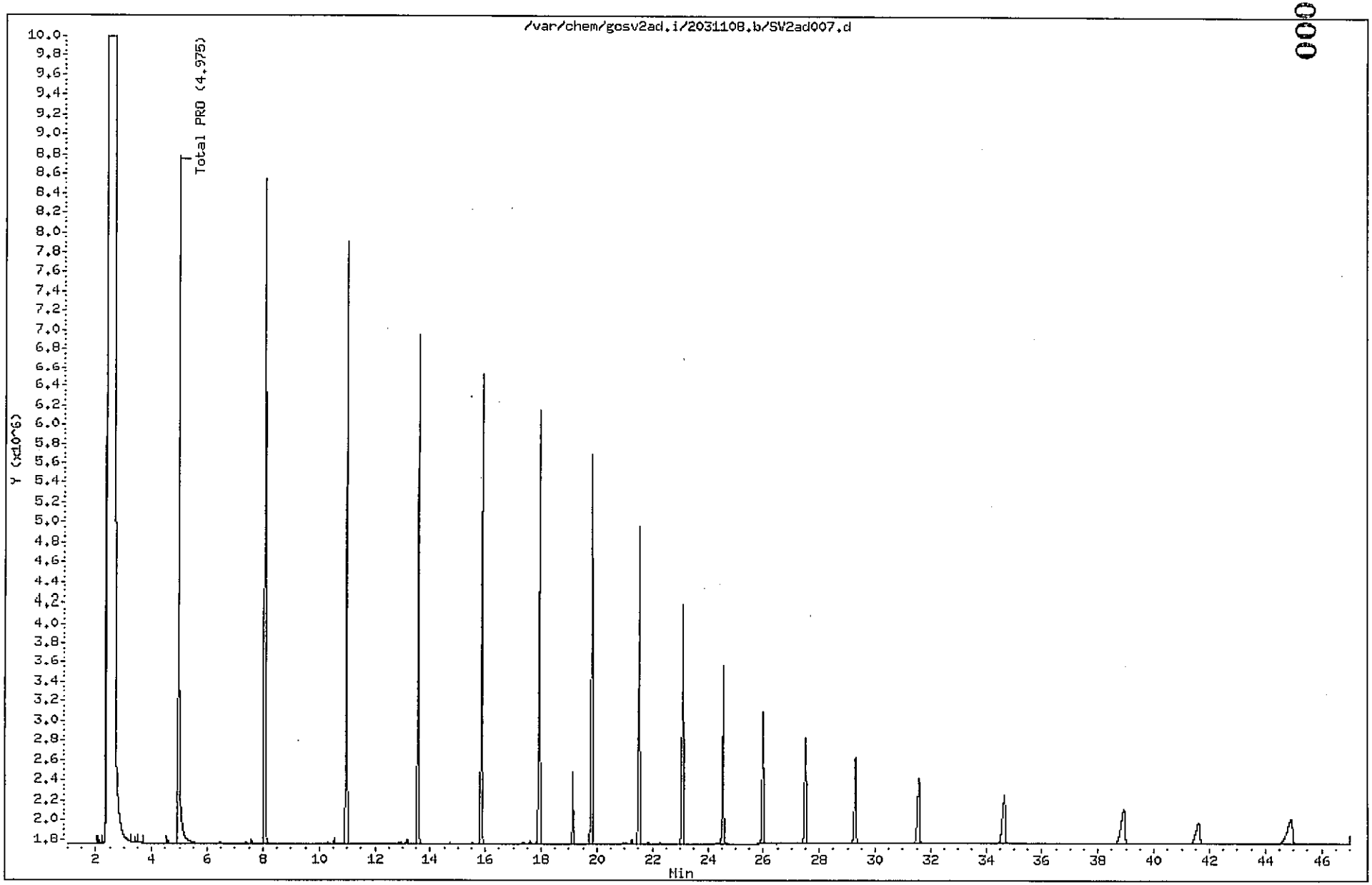
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (UG/ML)	AMOUNTS ON-COL (UG/ML)
$ 7 O-TERPHENYL	19.133	19.135	-0.002	17438252	50.0000	49.6962
$ 18 Nonatriacontane	41.611	41.638	-0.027	22210000	300.000	230.0286

39648252

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad007.d
Date : 08-NOV-2003 15:52
Client ID:
Sample Info: 500 PPM
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000844



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad009.d
Lab Smp Id: 500 icv
Inj Date : 08-NOV-2003 19:35
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 500 icv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 09:55 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008.d
Als bottle: 9 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

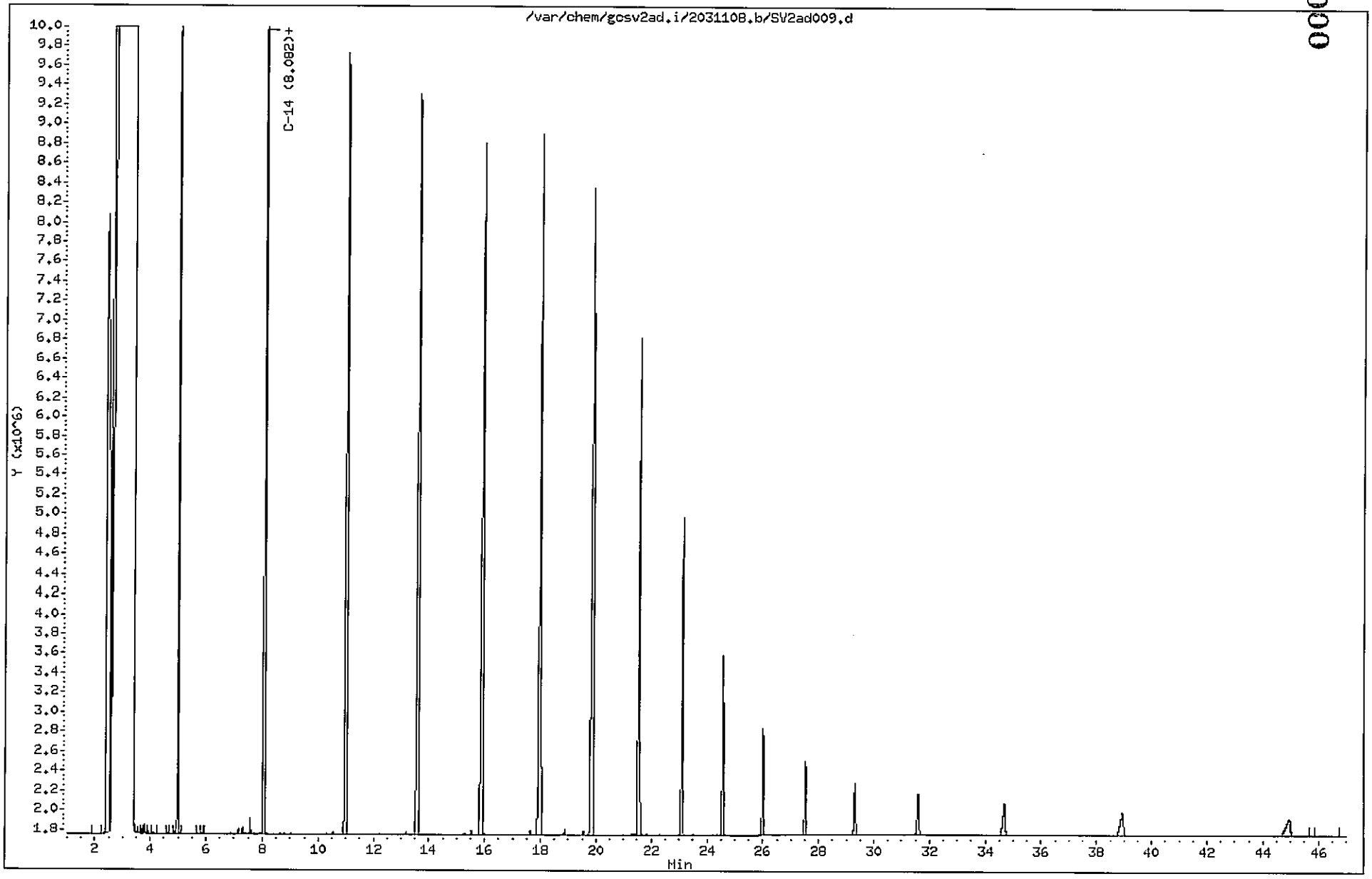
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	8.082	4.942	3.140	2188568226	7291.03	7291.0279(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad009.d
Date : 08-NOV-2003 19:35
Client ID:
Sample Info: 500 icv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53



000846

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad002.d
Lab Smp Id: 1400
Inj Date : 13-NOV-2003 11:17
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 13-Nov-2003 12:13 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	4.943	7.703	-2.760	189941100	850.000	672.9474(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{189941100 - 46602780}{850}$ $\frac{175692 - 182759}{182759} \cdot 100 = 3.9\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad002S.d
Lab Smp Id: 1400
Inj Date : 13-NOV-2003 11:17
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.115	19.134	-0.019	16124366	45.6967	91.3934
$ 18 Nonatriacontane	41.558	41.635	-0.077	24478414	265.758	531.5164

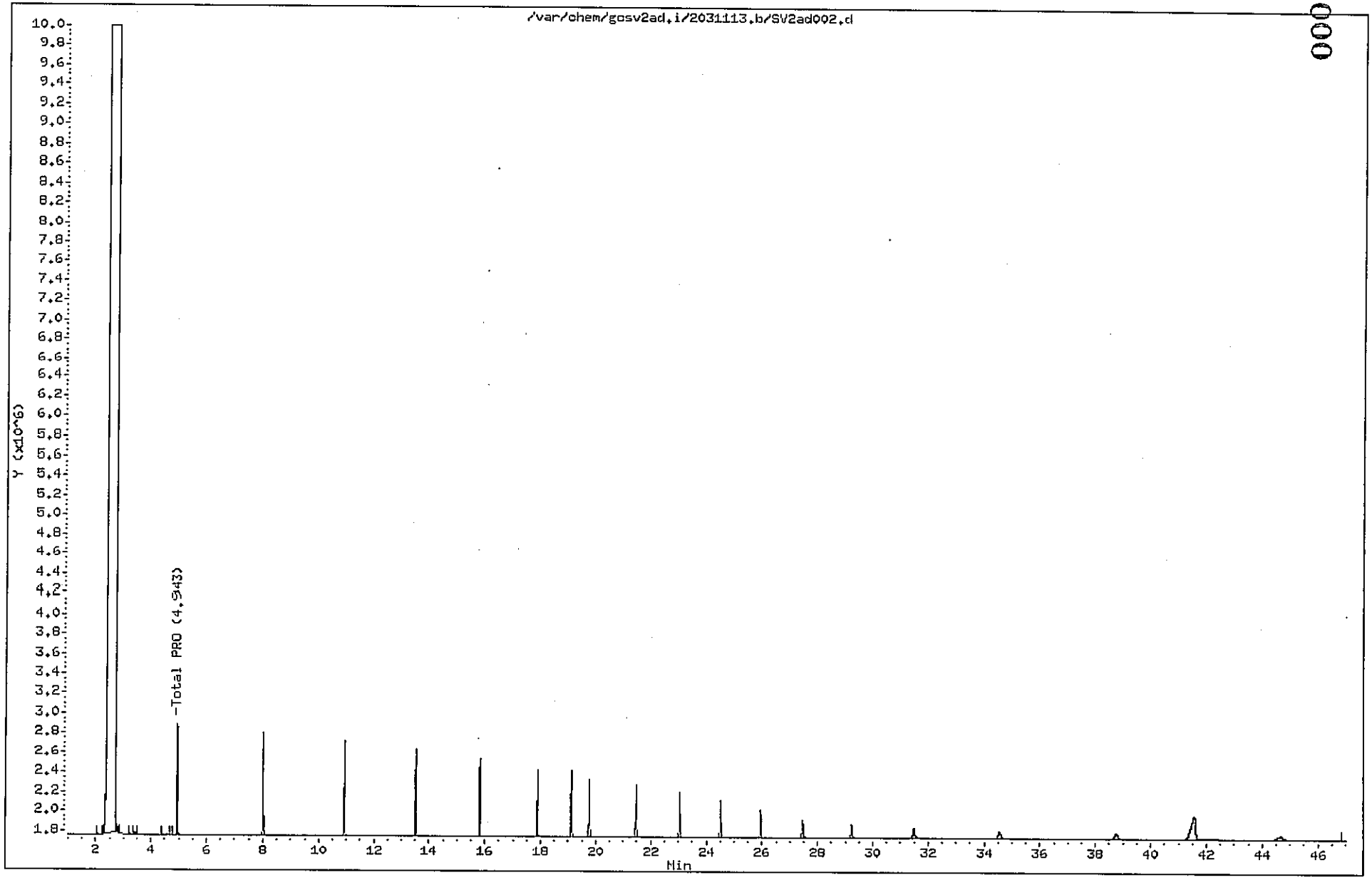
46602780

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad002.d
Date : 13-NOV-2003 11:17
Client ID:
Sample Info: 1400-1.0-GCSV~30XX~———50PPM oov
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i

Operator: tls
Column diameter: 0.53

G18000



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad013.d
Lab Smp Id: 1400
Inj Date : 13-NOV-2003 22:02
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	8.002	12.963	-4.961	161648597	850.000	572.7092(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{161648597 - 27857/29}{850}$ $\frac{157402 - 182759}{182759}$,100 = 13.8%

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad013S.d
Lab Smp Id: 1400
Inj Date : 13-NOV-2003 22:02
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.106	19.134	-0.028	15775323	44.7075	89.4150
$ 18 Nonatriacontane	41.447	41.635	-0.188	12081804	131.170	262.3404

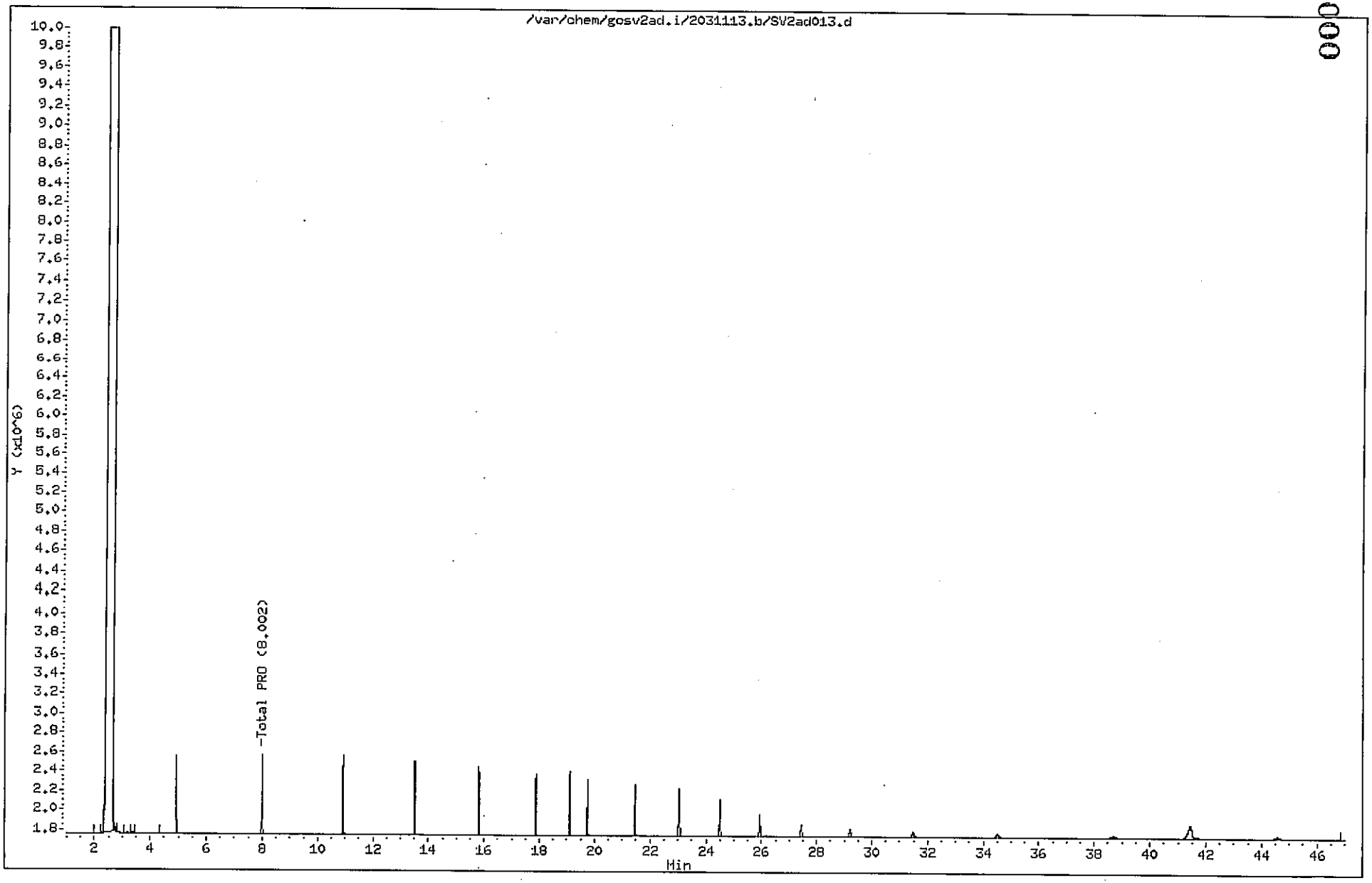
27857129

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad013.d
Date : 13-NOV-2003 22:02
Client ID:
Sample Info: 1400-1.0-GCSV~30XX~-----50PPM ccv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i

Operator: tls
Column diameter: 0.53

000852



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad024.d
Lab Smp Id: 1400
Inj Date : 14-NOV-2003 08:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	4.935	12.661	-7.726	170832383	850.000	605.2467(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{170832383 - 37699239}{850}$ $\frac{157333 - 182759}{182759} \cdot 100 = 13.9\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad024S.d
Lab Smp Id: 1400
Inj Date : 14-NOV-2003 08:21
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

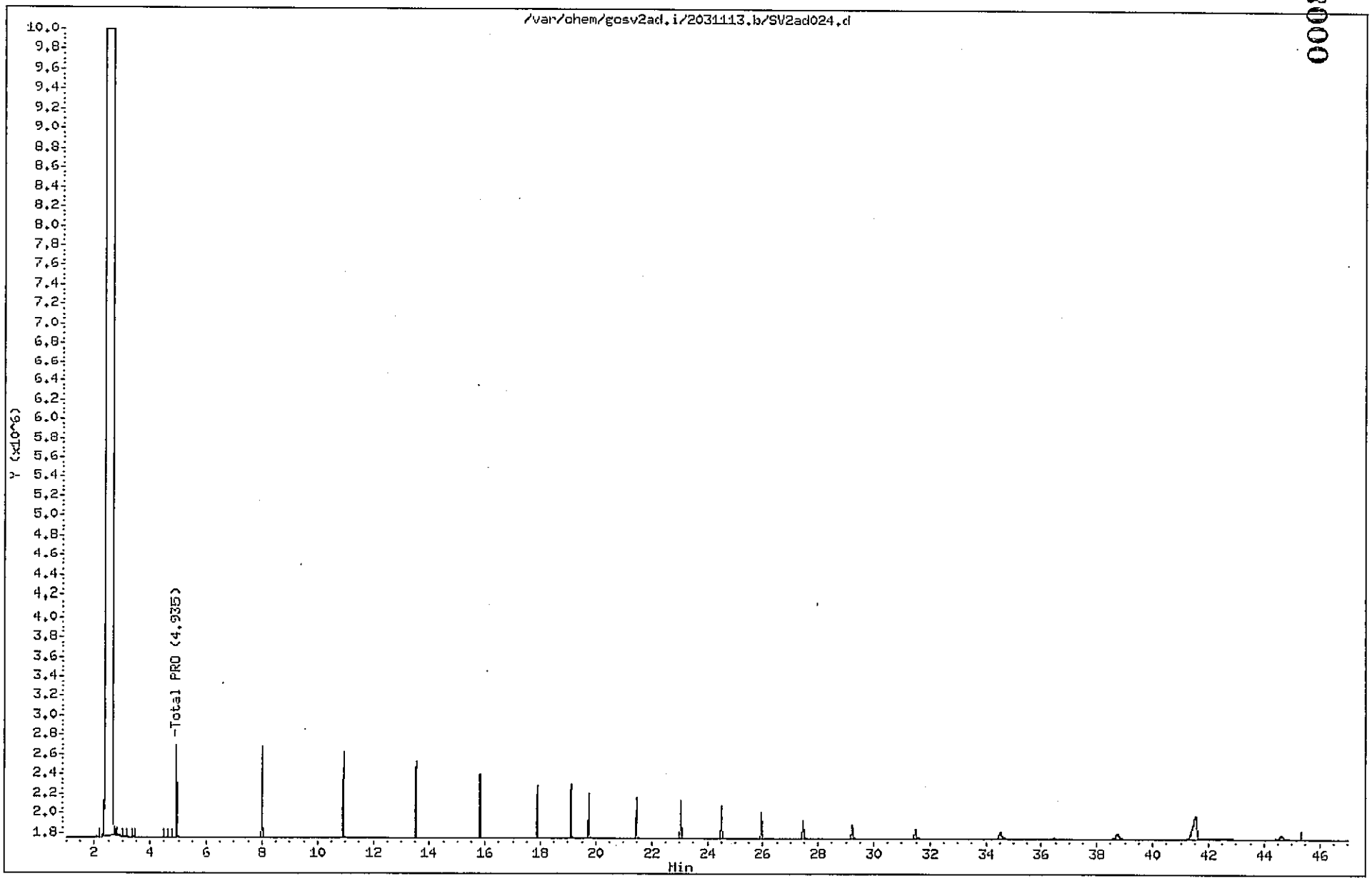
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.108	19.134	-0.026	12897041	36.5504	73.1008
$ 18 Nonatriacontane	41.531	41.635	-0.104	24202198	262.759	525.5187

37099239

Data File: /var/chem/gcsv2ad.i/2031113.b/SV2ad024.d
Date : 14-NOV-2003 08:21
Client ID:
Sample Info: 1400-1.0-GCSV~30XX~-----50PPM ccv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53

000855



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad033.d
Lab Smp Id: 1400
Inj Date : 14-NOV-2003 17:09
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 17:58 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 33 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	8.003	15.034	-7.031	174438616	850.000	618.0233 (M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{174438616 - 36434157}{850}$ $\frac{162358 - 182759}{182759} \cdot 100 = 11\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad033S.d
Lab Smp Id: 1400
Inj Date : 14-NOV-2003 17:09
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 1400-1.0-GCSV~30XX~----50PPM ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

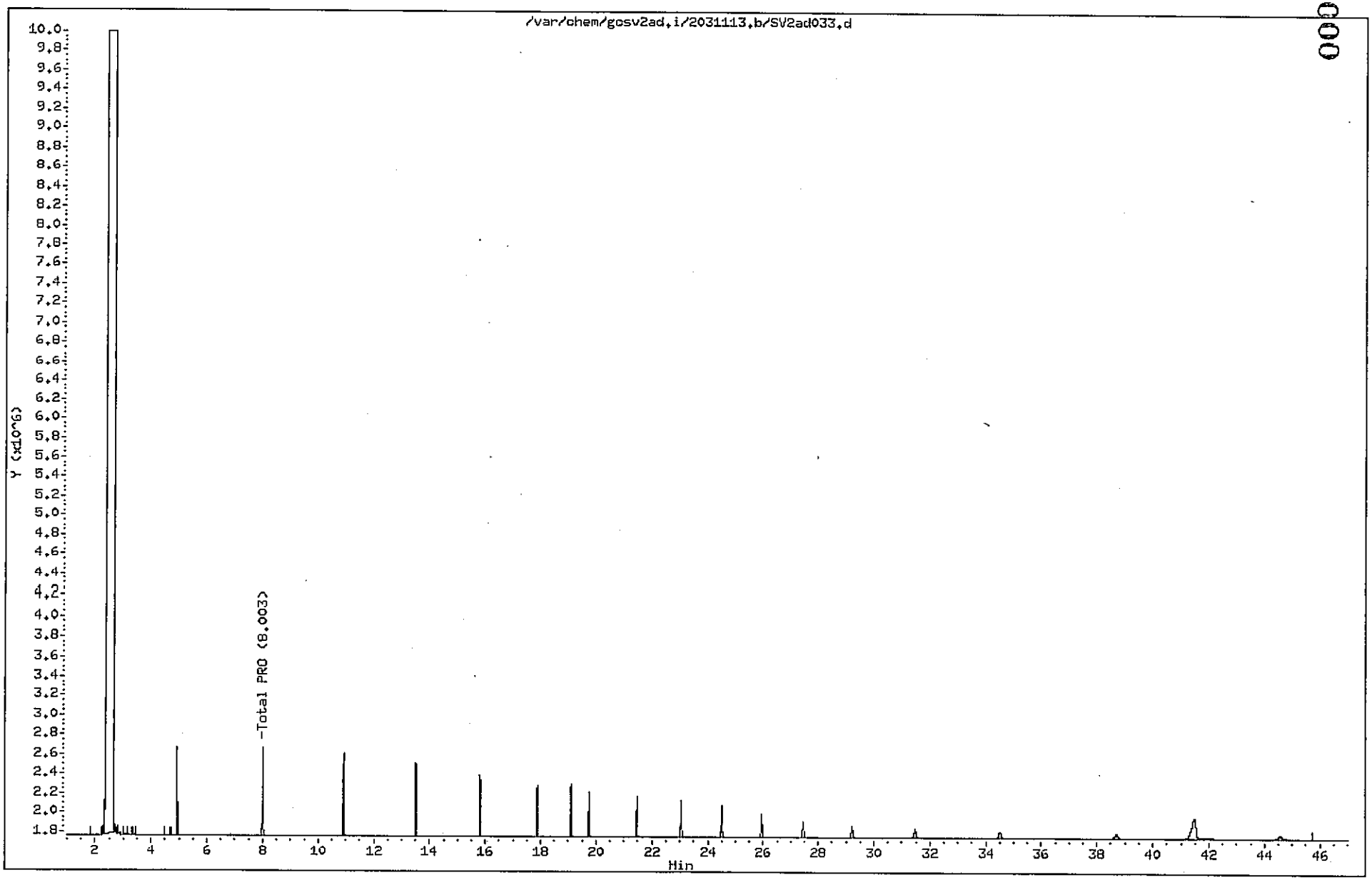
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.104	19.134	-0.030	13104754	37.1391	74.2781
$ 18 Nonatriacontane	41.501	41.635	-0.134	23329403	253.284	506.5671

36434157

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad033.d
Date : 14-NOV-2003 17:09
Client ID:
Sample Info: 1400-1.0-GCSV~30XX~-----50PPM oov
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000859



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad086.d
Lab Smp Id: 50 ccv
Inj Date : 12-NOV-2003 08:51
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 50 ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 12-Nov-2003 09:53 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 86 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	4.945	6.591	-1.646	195806478	850.000	693.7281(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{195806478 - 38853501}{850}$ $\frac{184650 - 182759}{182759}$ .1%

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad086S.d
Lab Smp Id: 50 ccv
Inj Date : 12-NOV-2003 08:51
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 50 ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 08:46 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

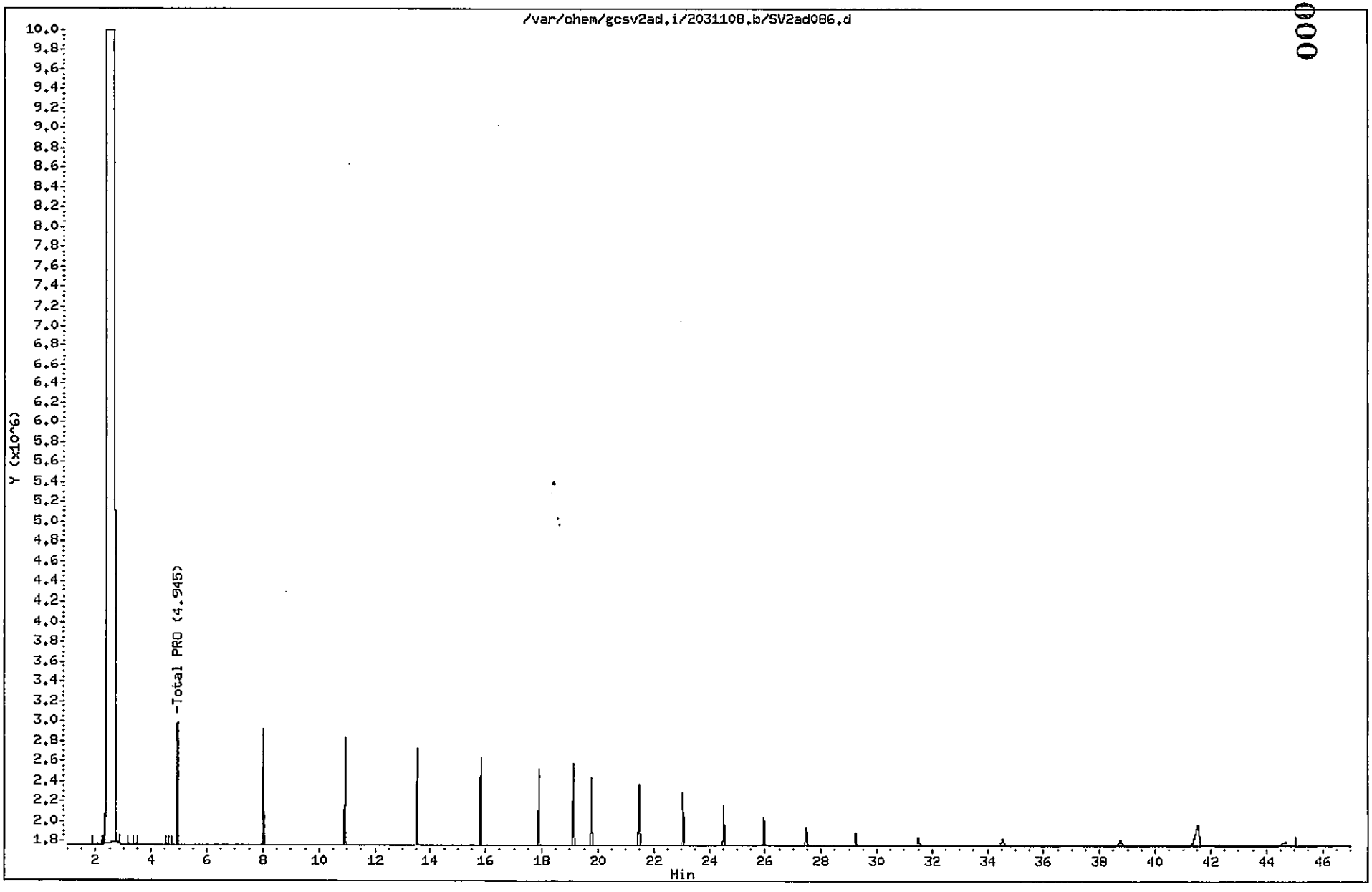
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.119	19.135	-0.016	19879819	56.3397	112.6794
$ 18 Nonatriacontane	41.531	41.629	-0.098	18973682	205.994	411.9884

38853501

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad086.d
Date : 12-NOV-2003 08:51
Client ID:
Sample Info: 50 ccv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: dlb
Column diameter: 0.53

000861



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad097.d
Lab Smp Id: 50 ccv
Inj Date : 12-NOV-2003 21:45
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 50 ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 97 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(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	4.942	4.942	0.000	195478718	850.000	692.5668(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{195478718 - 40050702}{850}$ $\frac{182856 - 182759}{182759} \cdot 100 = 0.05\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad097S.d
Lab Smp Id: 50 ccv
Inj Date : 12-NOV-2003 21:45
Operator : dlb Inst ID: gcsv2ad.i
Smp Info : 50 ccv
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 97
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

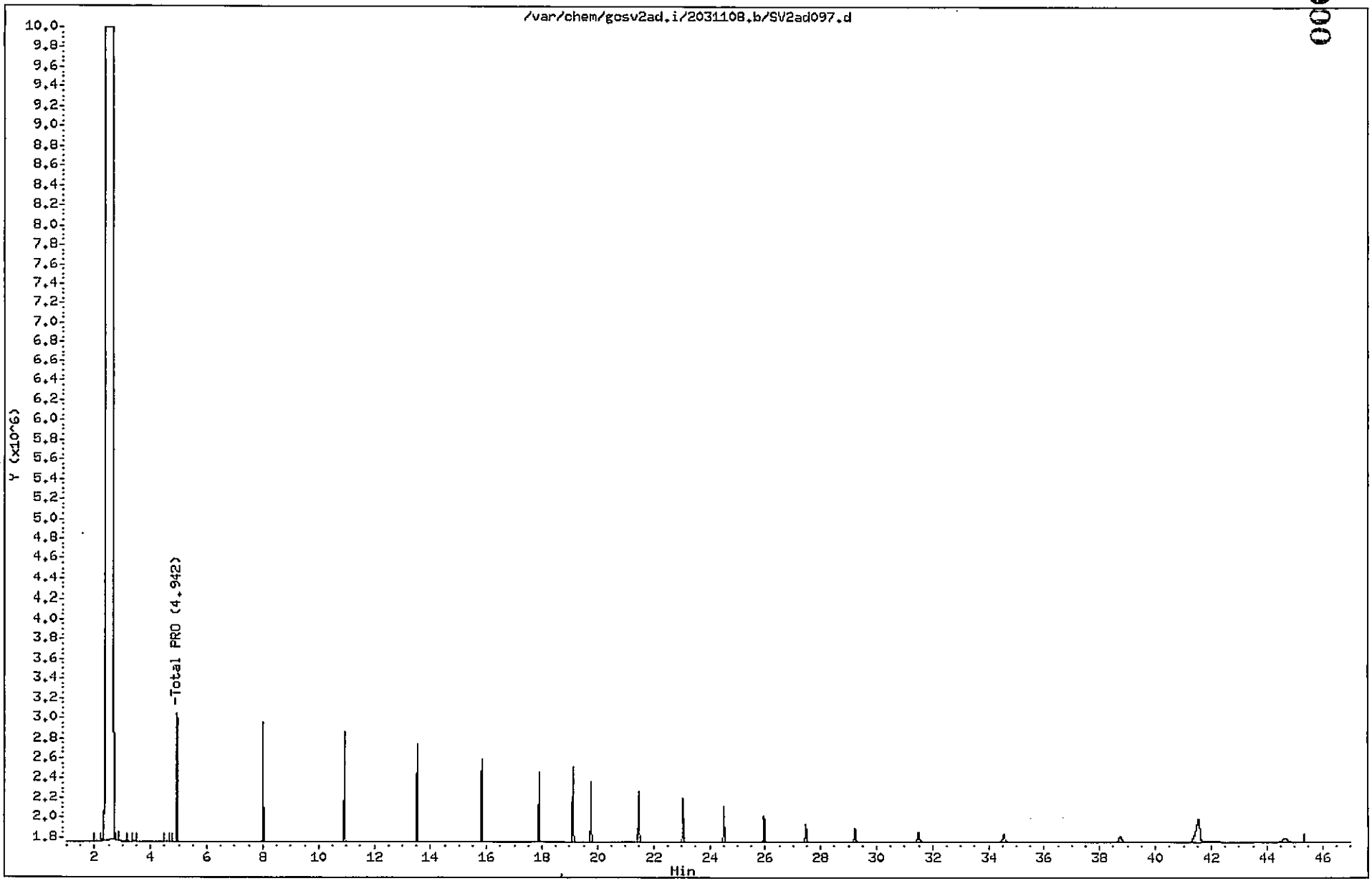
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
$ 7 O-TERPHENYL	19.117	19.134	-0.017	18043244	51.1349	102.2697
$ 18 Nonatriacontane	41.544	41.635	-0.091	22007458	238.931	477.8628

40050702

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad097.d
Date : 12-NOV-2003 21:45
Client ID:
Sample Info: 50 ccv
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: dlb
Column diameter: 0.53

000864



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad003.d
Lab Smp Id: 129804
Inj Date : 13-NOV-2003 12:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129804-1.0-GCSV~30xx~-2031112blk--blk 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 13-Nov-2003 12:13 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	19.112	7.703	11.409	14754016	52.2724	4181.7924(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{14754016 - 10916649}{182759} \cdot \frac{2}{25} \cdot 1000 = 1680 ug/K$ LDL

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad003s.d
Lab Smp Id: 129804
Inj Date : 13-NOV-2003 12:29
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129804-1.0-GCSV~30xx~-2031112blk--blk 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

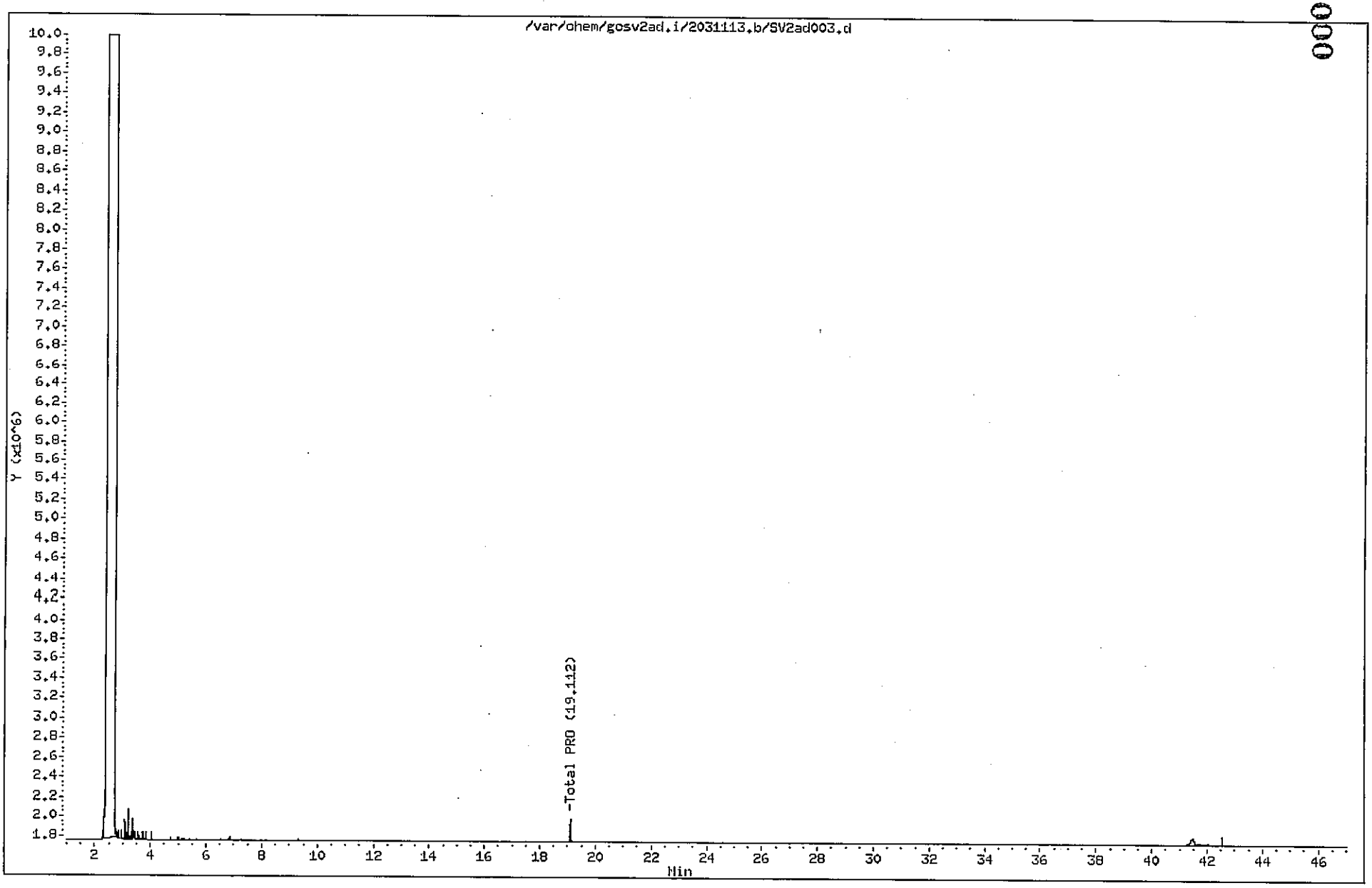
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.111	19.134	-0.023	5402411	15.3105	1224.8418(R)
$ 18 Nonatriacontane	41.475	41.635	-0.160	5514238	59.8672	4789.3755(RM)

QC Flag Legend

R - Spike/Surrogate failed recovery limits. 1091649
M - Compound response manually integrated.

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad003.d
Date : 13-NOV-2003 12:29
Client ID:
Sample Info: 129804-1.0-GCSV~30xx~-2031112blk--blk 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000867

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad004.d
Lab Smp Id: 129805
Inj Date : 13-NOV-2003 13:26
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129805-1.0-GCSV~30xx~-2031112lcs--lcs 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 13-Nov-2003 12:13 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	10.933	7.703	3.230	195121287	691.301	55304.0419(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{195121287 - 19,080,432}{182759} \cdot \frac{2}{25} \cdot 1000 = 77,060\ ug/K \,/\, 68,000 \cdot 100 =$

113%

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad004s.d
Lab Smp Id: 129805
Inj Date : 13-NOV-2003 13:26
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129805-1.0-GCSV~30xx~-2031112lcs--lcs 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

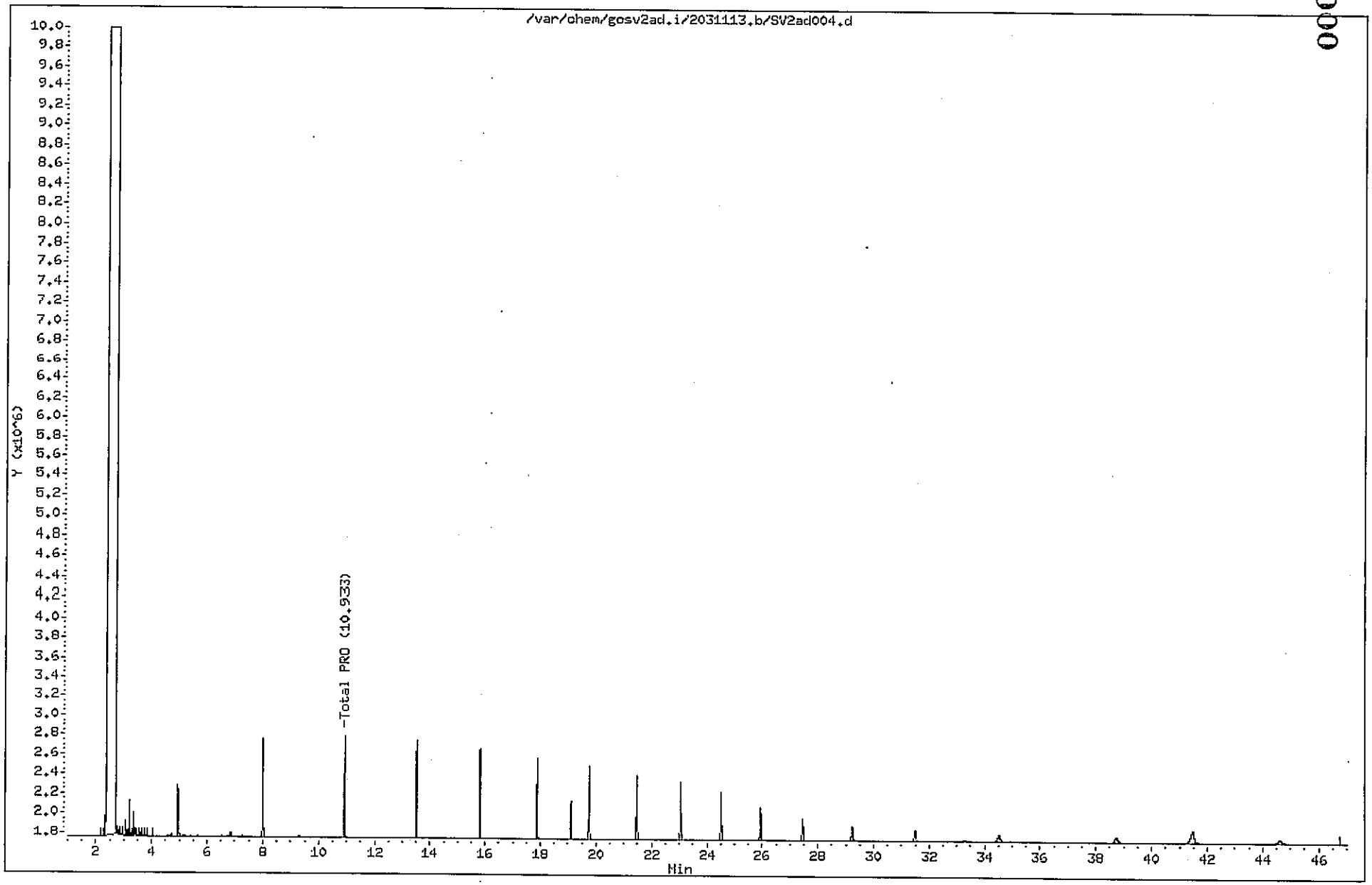
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.107	19.134	-0.027	9075244	25.7194	2057.5514
$ 18 Nonatriacontane	41.477	41.635	-0.158	10005188	108.625	8689.9773

19080432

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad004.d
Date : 13-NOV-2003 13:26
Client ID:
Sample Info: 129805-1.0-GCSV"30xx"-20311121os--los 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



000570

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad030.d
Lab Smp Id: 129806
Inj Date : 14-NOV-2003 14:17
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129806-1.0-GCSV~30xx~-2031112lcsd--lcsd 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flpro.m
Meth Date : 14-Nov-2003 09:18 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 30 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)(1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	25.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
20 Total PRO	10.928	12.661	-1.733	181807969	644.132	51530.5926(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{181807969 - 20241049}{182759} \cdot \frac{2}{25} \cdot 1000 = 70723/68000 \cdot 100 = 104\%$

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031113.b/SV2ad030s.d
Lab Smp Id: 129806
Inj Date : 14-NOV-2003 14:17
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 129806-1.0-GCSV~30xx~-2031112lcsd--lcsd 25 2
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031113.b/flsur.m
Meth Date : 13-Nov-2003 13:54 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 30 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.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

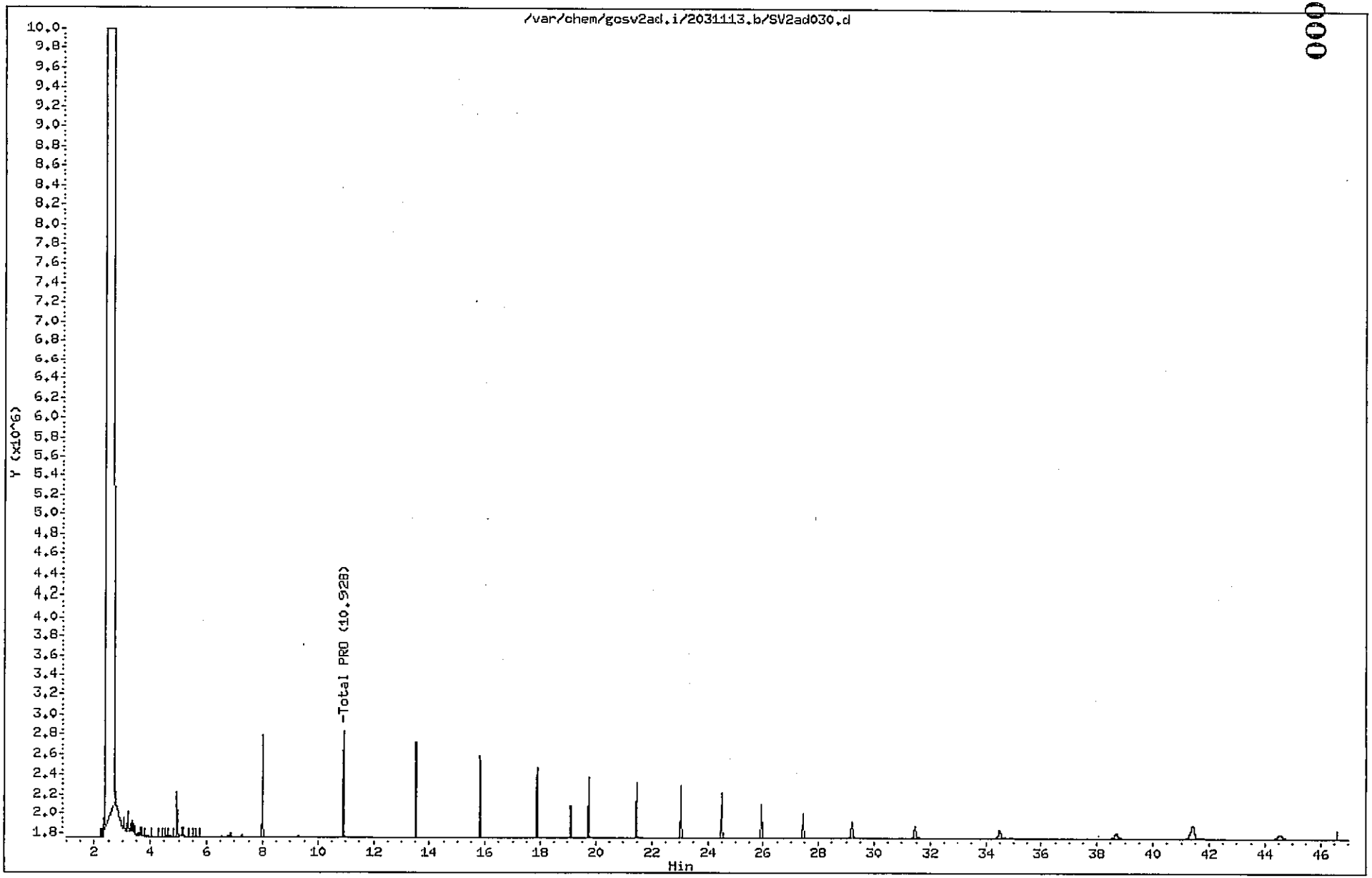
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/Kg)
$ 7 O-TERPHENYL	19.100	19.134	-0.034	7769713	22.0195	1761.5597
$ 18 Nonatriacontane	41.417	41.635	-0.218	12471336	135.399	10831.9430

20241049

Data File: /var/chem/gosv2ad.i/2031113.b/SV2ad030.d
Date : 14-NOV-2003 14:17
Client ID:
Sample Info: 129806-1.0-GCSV~30xx~-20311121osd--losd 25 2
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53

000873



Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad087.d
Lab Smp Id: 128902
Inj Date : 12-NOV-2003 09:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128902-1.0-GCSV~30xx~-2031110blk--blk 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 87 QC Sample: BLANK
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	19.117	4.942	14.175	11737040	41.5835	83.1669(M)

QC Flag Legend

M - Compound response manually integrated.

$\frac{11737040 - 17593846}{182759} \cdot \frac{2}{1000} \cdot 1000 -$ CPL

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad087s.d
Lab Smp Id: 128902
Inj Date : 12-NOV-2003 09:59
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128902-1.0-GCSV~30xx~-2031110blk--blk 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 87 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

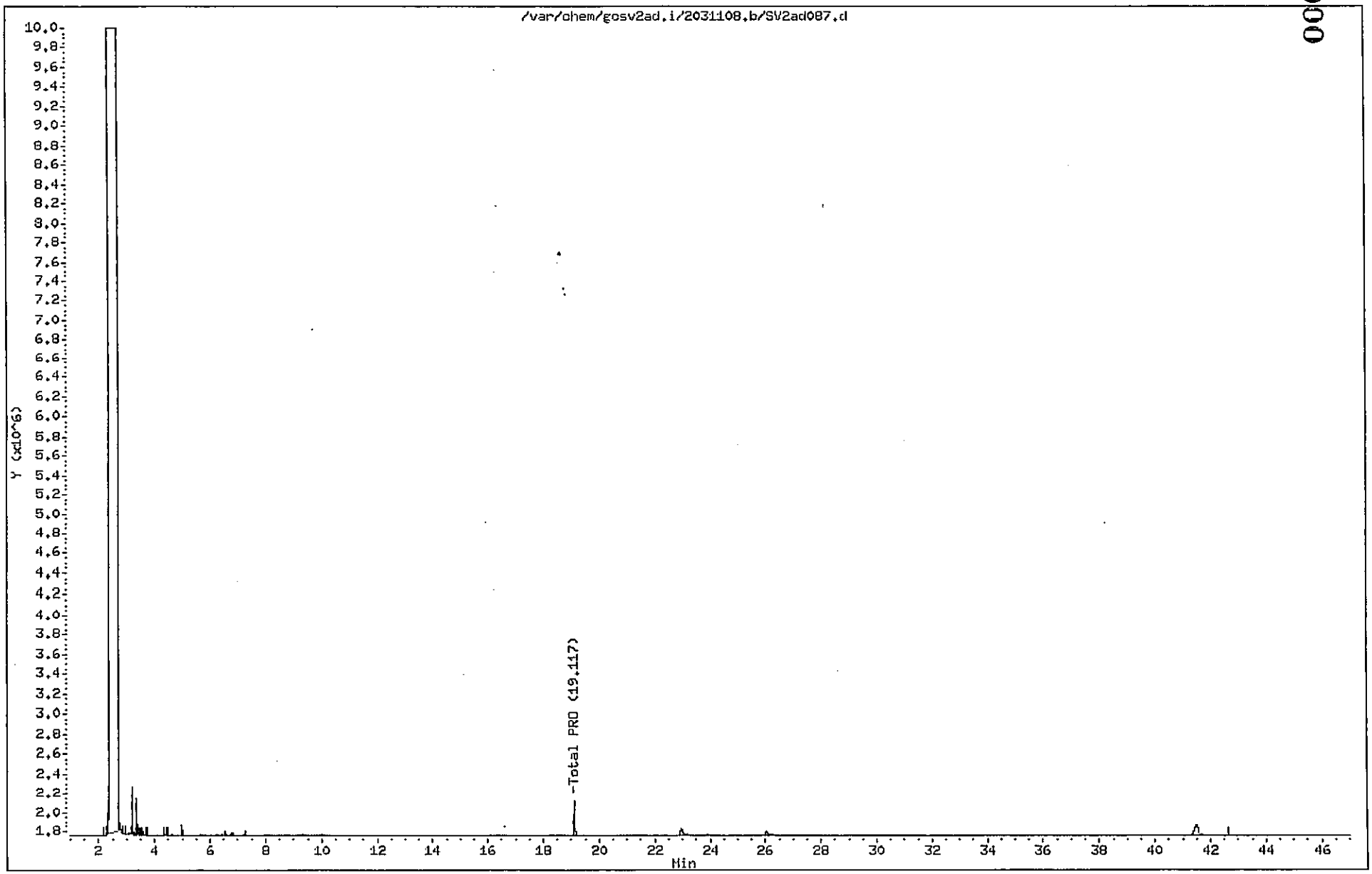
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.116	19.134	-0.018	8547833	24.2247	48.4494
$ 18 Nonatriacontane	41.491	41.635	-0.144	9046013	98.2111	196.4222

17,593,846

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad087.d
Date : 12-NOV-2003 09:59
Client ID:
Sample Info: 128902-1.0-GCSV~30xx~-2031110blk--blk 1000 10
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



008376

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad088.d
Lab Smp Id: 128903
Inj Date : 12-NOV-2003 11:10
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128903-1.0-GCSV~30xx~-2031110lcs--lcs 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 09:55 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 88 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	CONCENTRATIONS FINAL (ug/L)
20 Total PRO	10.943	4.942	6.001	230506116	767.911	1535.8228(M)

QC Flag Legend

M - Compound response manually integrated.

$$\frac{230506116 - 24916666}{182759} \times \frac{2}{1000} \times 1000 = \frac{2250\ ug/L}{1700}$$

132%

000877

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad088s.d
Lab Smp Id: 128903
Inj Date : 12-NOV-2003 11:10
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128903-1.0-GCSV~30xx~-2031110lcs--lcs 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 88 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.117	19.134	-0.017	10509032	29.7828	59.5655(RM)
$ 18 Nonatriacontane	41.518	41.635	-0.117	14407634	156.421	312.8427

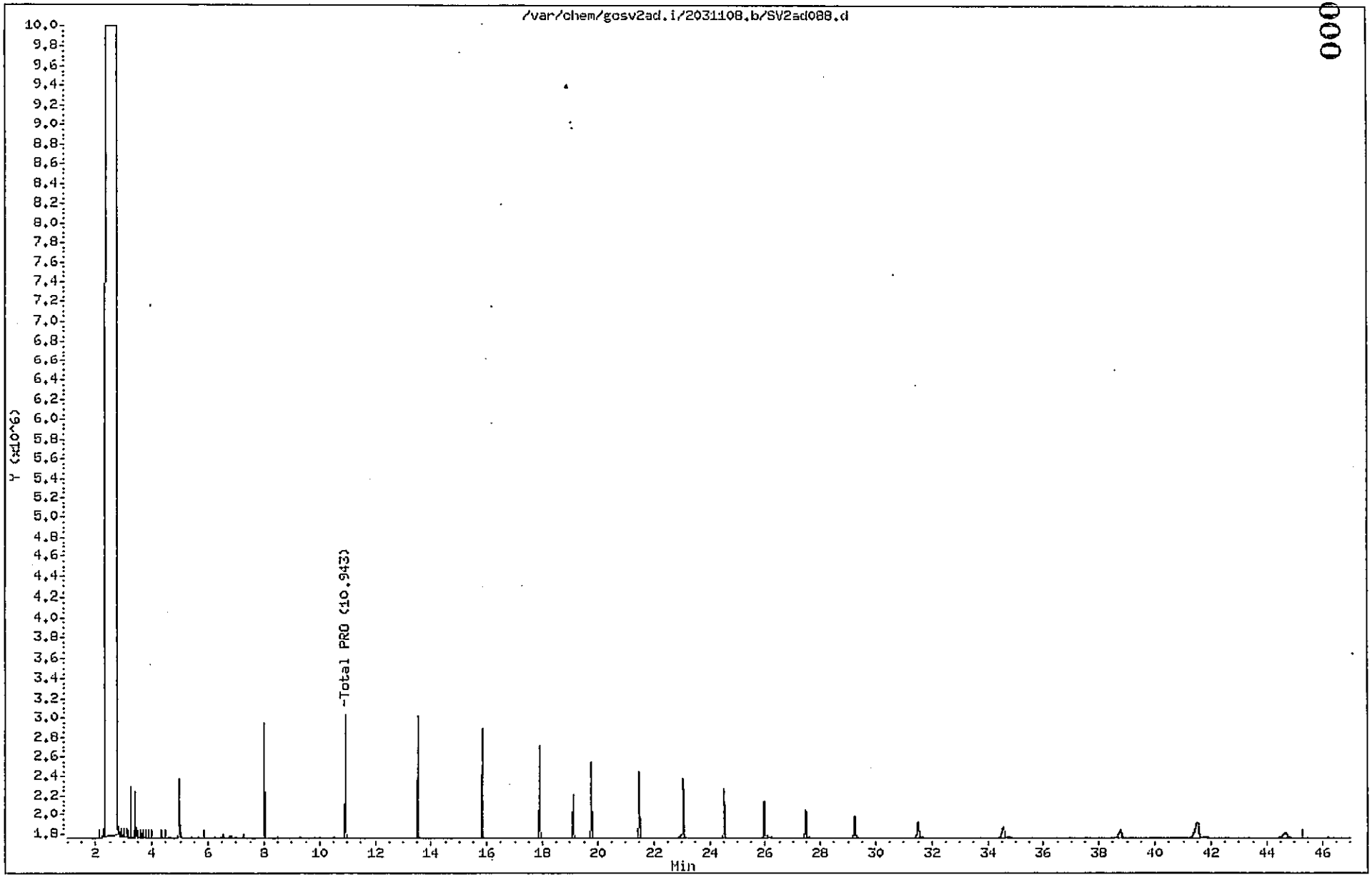
QC Flag Legend

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

24916666

Data File: /var/chem/gosv2ad.i/2031108.b/SV2ad088.d
Date : 12-NOV-2003 11:10
Client ID:
Sample Info: 128903-1.0-GCSV"30xx"-20311101os--lcs 1000 10
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gosv2ad.i
Operator: tls
Column diameter: 0.53



678000

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad089.d
Lab Smp Id: 128904
Inj Date : 12-NOV-2003 12:07
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128904-1.0-GCSV~30xx~-2031110lcsd--lcsd 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flpro.m
Meth Date : 13-Nov-2003 08:24 tls Quant Type: ESTD
Cal Date : 08-NOV-2003 13:01 Cal File: SV2ad004.d
Als bottle: 89 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: PRO.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
20 Total PRO	10.937	4.942	5.995	202846049	718.669	1437.3375(RM)

QC Flag Legend

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

$$\frac{202846049 - 16780964}{182759} \cdot \frac{2}{1000} \cdot 1000 = 2036/1700 \cdot 100 =$$

120%

Gulf Coast Analytical Services

Data file : /var/chem/gcsv2ad.i/2031108.b/SV2ad089s.d
Lab Smp Id: 128904
Inj Date : 12-NOV-2003 12:07
Operator : tls Inst ID: gcsv2ad.i
Smp Info : 128904-1.0-GCSV~30xx~-2031110lcsd--lcsd 1000 10
Misc Info :
Comment :
Method : /var/chem/gcsv2ad.i/2031108.b/flsur.m
Meth Date : 12-Nov-2003 16:05 dlb Quant Type: ESTD
Cal Date : 08-NOV-2003 16:57 Cal File: SV2ad008S.d
Als bottle: 89 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: CH2M.sub
Target Version: 3.50
Processing Host: hpchem

Concentration Formula: Amt * DF * (Uf * Vt)/(Vo * Vi)*1000 * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

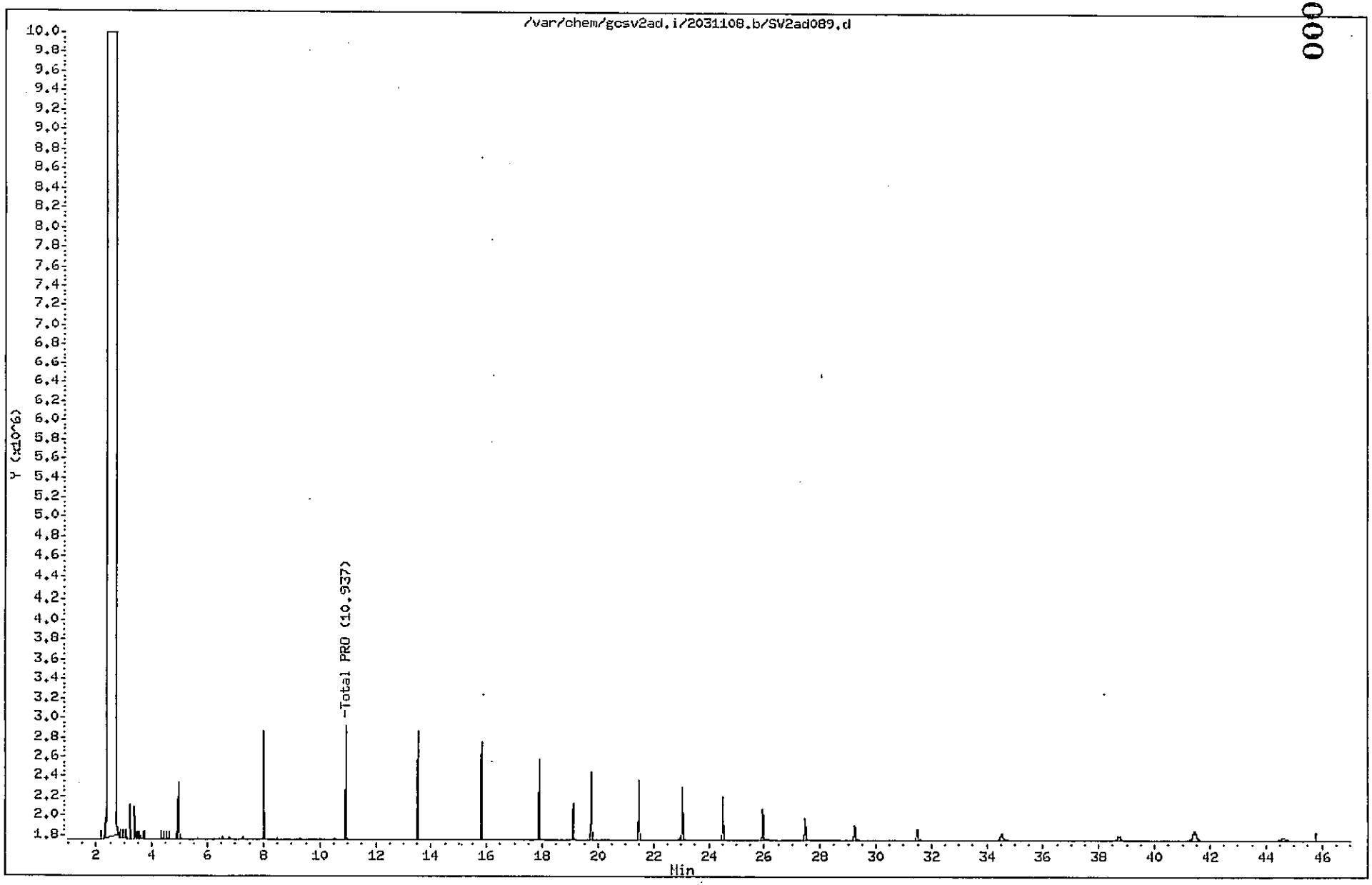
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (UG/ML)	FINAL (ug/L)
$ 7 O-TERPHENYL	19.109	19.134	-0.025	8877729	25.1596	50.3192
$ 18 Nonatriacontane	41.445	41.635	-0.190	7903235	85.8042	171.6083

16,780,964

Data File: /var/chem/gcsv2ad.i/2031108.b/SV2ad089.d
Date : 12-NOV-2003 12:07
Client ID:
Sample Info: 128904-1.0-GCSV^30xx^-2031110losd--losd 1000 10
Volume Injected (uL): 1.0
Column phase: DB-5ms

Instrument: gcsv2ad.i
Operator: tls
Column diameter: 0.53

000882



FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	11/10/03 8:00	BATCH NO:	265030
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	In-house QC Ac	MB for HBN 265030 [EXTO/4475]	128902	1000	2.0			
2	In-house QC Ac	LCS for HBN 265030 [EXTO/4475]	128903	1000	2.0			
3	In-house QC Ac	LCSD for HBN 265030 [EXTO/4475	128904	1000	2.0			SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	071-1159-MW-22-BL	20311051122	1000	2.0			✓
5	CH2M HILL Cons	071-1159-FD-3-BL	20311051123	1000	2.0			
6	CH2M HILL Cons	071-1159-GW-BL	20311053701	1000	2.0			
7	CH2M HILL Cons	86-EB1-W-1105-03	20311062420	1000	2.0			SONICATOR/3550
8	CH2M HILL Cons	86-EB2-W-1105-03	20311062421	1000	2.0			
9			2031105/116	760	2.0			
10			2031105/118	730	2.0			
11								SILICA GEL CLEANUP ✓
12								6512 T39607
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								MeCL2 Lot No:
24								030989
25								
26								
27								Sodium Sulfate Lot No:
28								034830

SKB 11/10/03

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	8-237-1	FLPRO SPIKE ID	8-237-2			TECHNICIAN	DATE
VOLUME	1.0 mL	VOLUME	200 µL			[illegible]	11/10/03
CONCENTRATION	50/300 µg/mL	CONCENTRATION	500 µg/mL				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	JPA					John Bailey	11/10/03

FLPRO SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	11-12-3 10:00	BATCH NO:	265229
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	In-house QC Ac	MB for HBN 265229 [EXTO/4502]	129804	25.0	2.0			
2	In-house QC Ac	LCS for HBN 265229 [EXTO/4502]	129805	25.0	2.0			
3	In-house QC Ac	LCSD for HBN 265229 [EXTO/4502	129806	25.0	2.0			SEPARATORY FUNNEL/3510
4	CH2M HILL Cons	86-B7-S-1105-03	20311062401	25.0	2.0			
5	CH2M HILL Cons	86-B31-S-1105-03	20311062402	25.0	2.0			
6	CH2M HILL Cons	86-B41-S-1105-03	20311062403	25.0	2.0			
7	CH2M HILL Cons	86-B70-S-1105-03	20311062404	25.0	2.0			SONICATOR/3550
8	CH2M HILL Cons	86-B96-S-1105-03	20311062405	25.0	2.0			✓
9	CH2M HILL Cons	86-B99-S-1105-03	20311062406	25.0	2.0			
10	CH2M HILL Cons	86-B101-S-1105-03	20311062407	25.0	2.0			
11	CH2M HILL Cons	86-B104-S-1105-03	20311062408	25.0	2.0			SILICA GEL CLEANUP
12	CH2M HILL Cons	86-B106-S-1105-03	20311062409	25.0	2.0			✓
13	CH2M HILL Cons	86-B110-S-1105-03	20311062410	25.0	2.0			
14	CH2M HILL Cons	86-B137-S-1105-03	20311062411	25.0	2.0			
15	CH2M HILL Cons	86-B146-S-1105-03	20311062412	25.0	2.0			
16	CH2M HILL Cons	86-B158-S-1105-03	20311062413	25.0	2.0			
7	CH2M HILL Cons	86-B167-S-1105-03	20311062414	25.0	2.0			
18	CH2M HILL Cons	86-B189-S-1105-03	20311062415	25.0	2.0			
19	CH2M HILL Cons	86-MS-S-1105-03	20311062416	25.0	2.0			
20	CH2M HILL Cons	86-MSD-S-1105-03	20311062417	25.0	2.0			
21	CH2M HILL Cons	86-DUP1-S-1010-02	20311062418	25.0	2.0			
22	CH2M HILL Cons	86-DUP2-S-1010-02	20311062419	25.0	2.0			
23								MeCL2 Lot No:
24								030989
25				SKR 11/				
26				11/12/03				
27								Sodium Sulfate Lot No:
28								034270

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

SURROGATE ID	8-237-1	FLPRO SPIKE ID	8-233-2			TECHNICIAN	DATE
VOLUME	1.0mL	VOLUME	200 ul			Judy Clucin	11-12-3
CONCENTRATION	50/500 ug/ml	CONCENTRATION	500 ug/ml				
ACID						SUPERVISOR	DATE
SPIKE WITNESS	RKH					John Bailey	11/13/03

000884

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/16/2003
Instrument: gcsv2ad.i
Method File: /var/chem/gcsv2ad.i/2031113.b/flpro.m
Batch: /var/chem/gcsv2ad.i/2031113.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
DCM		SV2ad001.d	13-NOV-2003 09:16	1.000	tls	
1400		SV2ad002.d	13-NOV-2003 11:17	1.000	tls	
1400		SV2ad002S.d	13-NOV-2003 11:17	1.000	tls	
129804		SV2ad003.d	13-NOV-2003 12:29	1.000	tls	
129804		SV2ad003s.d	13-NOV-2003 12:29	1.000	tls	
129805		SV2ad004.d	13-NOV-2003 13:26	1.000	tls	
129805		SV2ad004s.d	13-NOV-2003 13:26	1.000	tls	
129806		SV2ad005.d	13-NOV-2003 14:23	1.000	tls	
129806		SV2ad005s.d	13-NOV-2003 14:23	1.000	tls	
20311062401		SV2ad006.d	13-NOV-2003 15:19	1.000	tls	
20311062401		SV2ad006s.d	13-NOV-2003 15:19	1.000	tls	
20311062402		SV2ad007.d	13-NOV-2003 16:15	1.000	tls	
20311062402		SV2ad007s.d	13-NOV-2003 16:15	1.000	tls	
20311062403		SV2ad008.d	13-NOV-2003 17:18	1.000	tls	
20311062403		SV2ad008s.d	13-NOV-2003 17:18	1.000	tls	
20311062404		SV2ad009.d	13-NOV-2003 18:14	1.000	tls	
20311062404		SV2ad009s.d	13-NOV-2003 18:14	1.000	tls	
20311062405		SV2ad010.d	13-NOV-2003 19:11	1.000	tls	
20311062405		SV2ad010s.d	13-NOV-2003 19:11	1.000	tls	
20311062406		SV2ad011.d	13-NOV-2003 20:08	1.000	tls	
20311062406		SV2ad011s.d	13-NOV-2003 20:08	1.000	tls	
129806		SV2ad012.d	13-NOV-2003 21:05	1.000	tls	
129806		SV2ad012s.d	13-NOV-2003 21:05	1.000	tls	
1400		SV2ad013.d	13-NOV-2003 22:02	1.000	tls	
1400		SV2ad013S.d	13-NOV-2003 22:02	1.000	tls	
20311062407		SV2ad014.d	13-NOV-2003 22:59	1.000	tls	
20311062407		SV2ad014s.d	13-NOV-2003 22:59	1.000	tls	
20311062408		SV2ad015.d	13-NOV-2003 23:55	1.000	tls	
20311062408		SV2ad015s.d	13-NOV-2003 23:55	1.000	tls	
20311062409		SV2ad016.d	14-NOV-2003 00:52	1.000	tls	
20311062409		SV2ad016s.d	14-NOV-2003 00:52	1.000	tls	
20311062410		SV2ad017.d	14-NOV-2003 01:48	1.000	tls	
20311062410		SV2ad017s.d	14-NOV-2003 01:48	1.000	tls	
20311062411		SV2ad018.d	14-NOV-2003 02:45	1.000	tls	
20311062411		SV2ad018s.d	14-NOV-2003 02:45	1.000	tls	
20311062412		SV2ad019.d	14-NOV-2003 03:41	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/16/2003
Instrument: gcsv2ad.i
Method File: /var/chem/gcsv2ad.i/2031113.b/flpro.m
Batch: /var/chem/gcsv2ad.i/2031113.b
Column-Detector: DB-5ms

Sample ID	ClientName	DataFile	Injection Time	DilFactor	Anal	Comments
20311062412		SV2ad019s.d	14-NOV-2003 03:41	1.000	tls	
20311062413		SV2ad020.d	14-NOV-2003 04:37	1.000	tls	
20311062413		SV2ad020s.d	14-NOV-2003 04:37	1.000	tls	
20311062414		SV2ad021.d	14-NOV-2003 05:33	1.000	tls	
20311062414		SV2ad021s.d	14-NOV-2003 05:33	1.000	tls	
20311062415		SV2ad022.d	14-NOV-2003 06:29	1.000	tls	
20311062415		SV2ad022s.d	14-NOV-2003 06:29	1.000	tls	
20311062416		SV2ad023.d	14-NOV-2003 07:24	1.000	tls	
20311062416		SV2ad023s.d	14-NOV-2003 07:24	1.000	tls	
1400		SV2ad024.d	14-NOV-2003 08:21	1.000	tls	
1400		SV2ad024S.d	14-NOV-2003 08:21	1.000	tls	
20311062417		SV2ad025.d	14-NOV-2003 09:30	1.000	tls	
20311062417		SV2ad025s.d	14-NOV-2003 09:30	1.000	tls	
20311062418		SV2ad026.d	14-NOV-2003 10:27	1.000	tls	
20311062418		SV2ad026s.d	14-NOV-2003 10:27	1.000	tls	
20311062419		SV2ad027.d	14-NOV-2003 11:24	1.000	tls	
20311062419		SV2ad027s.d	14-NOV-2003 11:24	1.000	tls	
20311062402		SV2ad028.d	14-NOV-2003 12:21	1.000	tls	
20311062402		SV2ad028s.d	14-NOV-2003 12:21	1.000	tls	
20311062403		SV2ad029.d	14-NOV-2003 13:19	10.000	tls	
20311062403		SV2ad029s.d	14-NOV-2003 13:19	10.000	tls	
129806		SV2ad030.d	14-NOV-2003 14:17	1.000	tls	
129806		SV2ad030s.d	14-NOV-2003 14:17	1.000	tls	
20311062406		SV2ad031.d	14-NOV-2003 15:14	5.000	tls	
20311062406		SV2ad031s.d	14-NOV-2003 15:14	5.000	tls	
20311062418		SV2ad032.d	14-NOV-2003 16:11	5.000	tls	
20311062418		SV2ad032s.d	14-NOV-2003 16:11	5.000	tls	
1400		SV2ad033.d	14-NOV-2003 17:09	1.000	tls	
1400		SV2ad033S.d	14-NOV-2003 17:09	1.000	tls	

REVISED 6-1-95 Supervisor Review: QA Review:

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD CONC	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
FLPRO 150	58-37-1	C-443-10 2000ug/mL IST-680 2000 ug/mL 58-31-3	NSI ultra In house	C-443-10 1/5 T 0130 2/7 in house 3/4	75uL 150uL 25uL	1mL	150 ppm 300 ppm 50 ppm	DCM 030609	dlb	10-31-03	04-30-04
FLPRO 250	58-37-2	↓	↓	↓	125uL 150uL 25uL	↓	250 ppm 300 ppm 50 ppm	↓	dlb	↓	↓
FLPRO 350	58-37-3	↓	↓	↓	175 uL 150uL 25uL	↓	350 ppm 300 ppm 50ppm	↓	dlb	↓	↓
FLPRO 500	58-37-4	↓	↓	↓	250 uL 150 uL 25uL	↓	500 ppm 300 ppm 50 ppm	↓	dlb	↓	↓
FLPRO ICV	58-37-5	SFL-601 500 ug/mL	ultra	T-0814 07-2006	0.1mL	1.0mL	50 ppm	DCM 030609	dlb	10-31-03	04-30-04
FLPRO 50 CCV	58-37-6	C-443-10 2000ug/mL IST-680 2000ug/mL 58-31-3	NSI ultra In house	C-443-10 1/5 T0130 2/7 in house 3/4	25uL 150uL 25uL	1.0mL	50 ppm 300 ppm 50ppm	DCM 030609	dlb	11-3-03	05-02-04
waste motor oil 5000	58-37-7	UST-185 50,000 ug/mL 1341H 10,000 ug/mL	NSI NSI	UST-185-01 8/05 1341H-02-05 8/05	2 mLs 0.2 mLs	20 mLs	5000 ppm 100 ppm	DCM 030609	dlb	11-5-03	05-04-04
Int A III	58-37-8	Clp 216 5/10ppm	ultrA	T-1257 10/2004	600uL	50 mLs	60/120 ppb	Hexane 04-TLS 11-18- 034439	TLS	11-18-03	05-18-04

STANDARD PREPARATION LOGBOOK

STANDARD NAME	STD#	STOCK STD CONC	SUPPLIER	LOT#/ EXP DATE	WT/VOL g/ml	FINAL VOL(ml)	FINAL CONC	SOLVENT/ LOT#	INITIAL	DATE PREPARED	EXP DATE
1016/1260 V	58-36-1	1016-100ug/m PP281 1260-100ug/mL P-361 Pest Surrogate	ultra ultra ultra	S-1072 9/2005 pp-361 7/2005 ISM-320 8/2005	800uL 800uL 40uL	50 mL	160/1600 ppb	Hexane 034439	TLS	10-09-03	4-09-04
10/23/03	Dated 9/25/03 - 10/9/03 Reviewed By [illegible] GPK/GC [illegible]										
InDB III	58-36-2	Clp 226B 5/10ppm	ultra	T-527A 6/2005	600uL	50mL	60/120 ppb	Hexane 034439	TLS	10-23-03	4-23-04
1016/1260 III	58-36-3	pp281-100ug/mL pp361-100ug/mL ISM 320	ultra ultra ultra	S-1072 - 9/2005 S-0793 - 7/2005 T-0272 - 3/2005	400uL 400uL 200uL	100mL	400ppb	Hexane 034439	TLS	10-23-03	4-23-04
O-Terphenyl	58-36-4	1341H-02-05 10,000 ug/mL	NSI	1341H-02-05 08/2005	1mL	50mL	200ppm	DCM 030609	dlb	10-23-03	04-22-04
PCB ICV	58-36-5	8-211-2 (from Extract) 4000 ppb	in house	In house 01-08-04	1mL	10 mL	400ppb	Hexane 034439	dlb	10-24-03	01-08-04
IND A III	58-36-6	CLP-216 5/10 ppm	ultra	T-1257 10/2004	600uL	50mL	60/120 ppb	Hexane 034439	dlb	10-30-03	04-29-04
FLPRO 50	58-36-7	C-443-10 2000 ug/mL IST-680 2000 ug/mL 58-31-3	NSI ultra In house	C-441-10 1/5 T0130 2/7 58-31-3 3/4	25uL 150uL 25uL	1mL	50 ppm 300 ppm 50 ppm	DCM 030609	dlb	10-30-03	04-29-04
FLPRO 6	58-36-8	↓	↓	↓	3uL 150uL 25uL	1mL	6 ppm ~~150~~ 300 ppm ~~25~~ 50 ppm	↓	dlb	10-31-03	04-30-04
FLPRO 50	58-36-9	↓	↓	↓	25uL 150uL 25uL	1mL	50 ppm 300 ppm 50 ppm	↓	dlb	↓	↓

dlb 10/31/03

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062401	86-B7-S-1105-03	Solid	11/05/2003 15:25	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.9	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062402	86-B31-S-1105-03	Solid	11/05/2003 16:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-006	Total Solids	88.8	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062403	86-B41-S-1105-03	Solid	11/05/2003 15:40	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	84.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062404	86-B70-S-1105-03	Solid	11/05/2003 15:10	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062405	86-B96-S-1105-03	Solid	11/05/2003 14:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	94.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062406	86-B99-S-1105-03	Solid	11/05/2003 14:55	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	87.2	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062407	86-B101-S-1105-03	Solid	11/05/2003 14:35	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	81.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062408	86-B104-S-1105-03	Solid	11/05/2003 13:50	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	88.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062409	86-B106-S-1105-03	Solid	11/05/2003 14:15	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062410	86-B110-S-1105-03	Solid	11/05/2003 13:25	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	93.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062411	86-B137-S-1105-03	Solid	11/05/2003 13:35	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	90.6	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062412	86-B146-S-1105-03	Solid	11/05/2003 13:05	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	93.7	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062413	86-B158-S-1105-03	Solid	11/05/2003 12:55	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-006	Total Solids	91.4	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062414	86-B167-S-1105-03	Solid	11/05/2003 13:15	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.5	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062415	86-B189-S-1105-03	Solid	11/05/2003 12:45	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	85.8	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062418	86-DUP1-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.0	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20311062419	86-DUP2-S-1010-02	Solid	11/05/2003 00:00	11/06/2003 09:25

2540 G Total Solids - Solid

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	11/06/2003 17:22	MDT	265050

CAS#	Parameter	Result	RDL	MDL	Units
C-008	Total Solids	95.3	0.010	0.010	%

RESULTS REPORTED ON A DRY WEIGHT BASIS

General Chemistry Quality Control Summary

Analytical Batch 265050	**Client ID**	86-B7-S-1105-03	128573DUP
Prep Batch N/A	**GCAL ID**	20311062401	129037
	Sample Type	SAMPLE	DUP
	Analytical Date	11/06/2003 17:22	11/06/2003 17:22
	Matrix	Solid	Solid

2540 G Total Solids - Solid		**Units** Result	% RDL	**Result**	**RPD**	**RPD Limit**
C-008	Total Solids	85.9	0.010	85.8	0.12	25

000906

TOTAL SOLIDS AND MOISTURE ANALYSIS FOR DRY WEIGHT CORRECTION

	DW	TS						
HBN	265021	265050		ANALYST:	MDT		DATE:	11/6/2003
SOLI	3396	3398		REVIEW:	SAB 3	11-7-03	TIME:	17:22:00

Sample ID	Pan ID	Pan Mass (g)	Initial Mass (g) (Sample & Pan)	Final Mass (g) (Sample & Pan)	Initial Mass Less Pan (g)	Final Mass Less Pan (g)	% Moisture in Sample	% Solids in Sample
20311062401	24014	1.2509	10.6252	9.3071	9.3743	8.0562	14.06	85.94
20311062401DP	2401DP	1.2635	10.4340	9.1334	9.1705	7.8699	14.18	85.82
20311062402	2402	1.2533	11.7984	10.6156	10.5451	9.3623	11.22	88.78
20311062403	2403	1.2581	10.5946	9.1361	9.3365	7.8780	15.62	84.38
20311062404	2404	1.2543	10.6840	9.7662	9.4297	8.5119	9.73	90.27
20311062405	2405	1.2586	10.7901	10.2626	9.5313	9.0238	5.32	94.68
20311062406	2406	1.2601	11.6788	10.3460	10.4187	9.0859	12.79	87.21
20311062407	2407	1.2587	11.4570	9.5782	10.1983	8.3195	18.42	81.58
20311062408	2408	1.2555	11.0140	9.8826	9.7585	8.6271	11.59	88.41
20311062409	2409	1.2502	11.4614	10.4908	10.2112	9.2406	9.51	90.49
20311062410	2410	1.2600	10.2911	9.7009	9.0311	8.4409	6.54	93.46
20311062411	2411	1.2602	10.7073	9.8150	9.4471	8.5548	9.45	90.55
20311062412	2412	1.2584	10.7874	10.1832	9.5290	8.9248	6.34	93.66
20311062413	2413	1.2514	10.7287	9.9161	9.4773	8.6647	8.57	91.43
20311062414	2414	1.2527	11.8092	11.3326	10.5565	10.0799	4.51	95.49
20311062415, MS 16, MSD 17	2415	1.2572	10.2108	8.9410	8.9536	7.6838	14.18	85.82
~~20311062416~~	~~2416~~	~~1.2572~~	~~10.2108~~	~~8.9415~~	~~8.9536~~	~~7.6843~~	~~14.18~~	~~85.82~~
~~20311062417~~	~~2417~~	~~1.2572~~	~~10.2108~~	~~8.9414~~	~~8.9536~~	~~7.6842~~	~~14.18~~	~~85.82~~
20311062418	2418	1.2569	10.7352	10.2585	9.4783	9.0016	5.03	94.97
20311062419	2419	1.2562	10.2950	9.8737	9.0388	8.6175	4.66	95.34

VOID SAB 3 11-7-03

TS % = (Final Sample Mass x 100) / Initial Sample Mass

TM % = 100-TS%

000907

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

171591-011 page 1 of 2

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 NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	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.):
South Fuel Farm - Annual Soil Sampling	CTO 086	6442	Bonnie Hogue / 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:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	904-777-4182	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)	BETX by 8021B	PAHs + 1- and 2-Methylnapthalene by 8310, TRPH by FLO-PRO.								SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	86-B7-S-1105-03	boring B-7 @ 2 ft	soil	11/05/03	15:25	III/C	14	4	1								Grab	OVA = 41 ppm	1116-01
2	86-B31-S-1105-03	boring B-31 @ 2 ft	soil	11/05/03	16:00	III/C	14	4	1								Grab	OVA = 5 ppm	-02
3	86-B41-S-1105-03	boring B-41 @ 4 ft	soil	11/05/03	15:40	III/C	14	4	1								Grab	OVA = 670 ppm	-03
4	86-B70-S-1105-03	boring B-70 @ 2 ft	soil	11/05/03	15:10	III/C	14	4	1								Grab	OVA = 0.4 ppm	-04
5	86-B96-S-1105-03	boring B-96 @ 4 ft	soil	11/05/03	14:00	III/C	14	4	1								Grab	OVA = 20,692 ppm	-05
6	86-B99-S-1105-03	boring B-99 @ 4 ft	soil	11/05/03	14:55	III/C	14	4	1								Grab	OVA = 886 ppm	-06
7	86-B101-S-1105-03	boring B-101 @ 4 ft	soil	11/05/03	14:35	III/C	14	4	1								Grab	OVA = 13 ppm MS/MSD	-07
8	86-B104-S-1105-03	boring B-104 @ 4 ft	soil	11/05/03	13:50	III/C	14	4	1								Grab	OVA = 5 ppm	-08
9	86-B106-S-1105-03	boring B-106 @ 4 ft	soil	11/05/03	14:15	III/C	14	4	1								Grab	OVA = 51 ppm	-09
10	86-B110-S-1105-03	boring B-110 @ 2 ft	soil	11/05/03	13:25	III/C	14	4	1								Grab	OVA = 1.6 ppm	-10
11	86-B137-S-1105-03	boring B-137 @ 2 ft	soil	11/05/03	13:35	III/C	14	4	1								Grab	OVA = 0 ppm	-11

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	2°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop	11/5/2003	18:00	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	11/5/2003	18:00
Printed Name and Signature:			Printed Name and Signature:		
Fed Ex	11-6-03	0925	Daria Hayden	11-6-03	0925

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Form CC1001, Rev 02/00

000805

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

171591-011 page 2 of 2

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 NAS Cecil Field	171591	Gulf Coast Labs. Dano Merril	Jeff Marks / J.A Jones Env. Services	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.):
South Fuel Farm - Annual Soil Sampling	CTO 086	6442	Bonnie Hogue / 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:	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No. , and Fax No.):
Jeff Marks	904-777-4182	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)	BETX by 8021B	PAHs + 1- and 2-Methylnaphthalene by 8310, TRPH by FLO-PRO.							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
12	86-B146-S-1105-03	boring B-146 @ 4 ft	soil	11/05/03	13:05	III/C	14	4	1							Grab	OVA = 1.7 ppm	11/6-12
13	86-B158-S-1105-03	boring B-158 @ 2 ft	soil	11/05/03	12:55	III/C	14	4	1							Grab	OVA = 10 ppm	-13
14	86-B167-S-1105-03	boring B-158 @ 2 ft	soil	11/05/03	13:15	III/C	14	4	1							Grab	OVA = 0.2 ppm	-14
15	86-B189-S-1105-03	boring B-189 @ 4 ft	soil	11/05/03	12:45	III/C	14	4	1							Grab	OVA = 2 ppm	-15
16	86-MS-S-1105-03	Matrix Spike	soil	11/05/03	14:35	III/C	14	4	1							Grab	OVA = 13 ppm	-16
17	86-MSD-S-1105-03	Matrix Spike Dup	soil	11/05/03	14:35	III/C	14	4	1							Grab	OVA = 13 ppm	-17
18	086-DUP1-S-1010-02	Duplicate #1	soil	11/05/03	--	III/C	14	4	1							Grab	--	-18
19	086-DUP2-S-1010-02	Duplicate #2	soil	11/05/03	--	III/C	14	4	1							Grab	--	-19
20	86-EB1-W-1105-03	Pre-Equipment Blank	Wtr	11/05/03	12:30	III/C	14	3	4							Grab	--	-20
21	86-EB2-W-1105-03	Post Equipment Blank	Wtr	11/05/03	16:15	III/C	14	3	4							Grab	--	-21
22	086-TB1-W-1010-02	Trip Blank #1	Wtr	NA	NA	III/C	14	3								Grab	Prepared by Lab	-22
23	086-TB2-W-1010-02	Trip Blank #2	Wtr	NA	NA	III/C	14	3								Grab	Prepared by Lab	-23

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Sean Smith J.A. Jones Environmental Services	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	2°C Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature:		
R. Dumaop R. Dumaop	11/5/2003	18:00	Federal Express Tracking Numbers: 791054060352, 791054060411, 791054060477, 791054060536. . (4 Coolers)	11/5/2003	18:00
Printed Name and Signature:					
Fed Ex	11-6-03	0925	Daria Hurdel Daria Hurdel	11-6-03	0925

000909

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Form CCI001, Rev 02/00

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO:	203110624	Type:	D
Desc:		Report:	REVIEW_RPT
Work ID:	CTO 86 Cecil Field - South Fue	Status:	WP
Project Seq:	16365	Created:	11/6/03 10:30
Client:	4380 - CH2M HILL Constructors Inc.	QA:	
Profile:	42891 - CTO 0086 - CTO 86 Cecil Field - South Fuel Farm	PO:	

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
20311062401-1	16	NONE			X			X	OK
20311062401-2	40	NONE			X				OK
20311062401-3	2	NONE			X			X	OK
20311062402-1	16	NONE			X			X	OK
20311062402-2	40	NONE			X				OK
20311062402-3	2	NONE			X			X	OK
20311062403-1	16	NONE			X			X	OK
20311062403-2	40	NONE			X				OK
20311062403-3	2	NONE			X			X	OK
20311062404-1	16	NONE			X			X	OK
20311062404-2	40	NONE			X				OK
20311062404-3	2	NONE			X			X	OK
20311062405-1	16	NONE			X			X	OK
20311062405-2	40	NONE			X				OK
20311062405-3	2	NONE			X			X	OK
20311062406-1	16	NONE			X			X	OK
20311062406-2	40	NONE			X				OK
20311062406-3	2	NONE			X			X	OK

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
20311062407-1	16	NONE			X			X	OK
20311062407-2	40	NONE			X				OK
20311062407-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062408-1	16	NONE			X			X	OK
20311062408-2	40	NONE			X				OK
20311062408-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062409-1	16	NONE			X			X	OK
20311062409-2	40	NONE			X				OK
20311062409-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062410-1	16	NONE			X			X	OK
20311062410-2	40	NONE			X				OK
20311062410-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062411-1	16	NONE			X			X	OK
20311062411-2	40	NONE			X				OK
20311062411-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062412-1	16	NONE			X			X	OK
20311062412-2	40	NONE			X				OK
20311062412-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062413-1	16	NONE			X			X	OK
20311062413-2	40	NONE			X				OK
20311062413-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062414-1	16	NONE			X			X	OK
20311062414-2	40	NONE			X				OK
20311062414-3	2	NONE			X			X	OK

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
20311062415-1	16	NONE			X			X	OK
20311062415-2	40	NONE			X				OK
20311062415-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062416-1	16	NONE			X			X	OK
20311062416-2	40	NONE			X				OK
20311062416-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062417-1	16	NONE			X			X	OK
20311062417-2	40	NONE			X				OK
20311062417-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062418-1	16	NONE			X			X	OK
20311062418-2	40	NONE			X				OK
20311062418-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062419-1	16	NONE			X			X	OK
20311062419-2	40	NONE			X				OK
20311062419-3	2	NONE			X			X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062420-1	40	HCL+SS			✓	✓			OK
20311062420-2	LA	NONE			X			X	OK
20311062420-3	LA	H2SO4	✓					X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062421-1	40	HCL+SS			✓	✓			OK
20311062421-2	LA	NONE			X			X	OK
20311062421-3	LA	H2SO4	✓					X	OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062422-1	40	HCL+SS			✓	✓			OK

Container ID	Type	Preservative	A	U	N\A	A	U	N\A	CONTAINER CONDITION
20311062423-1	40	HCL+SS			✓	✓			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

CUSTODIAN DAH / MSR

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike HSN : 20311062416

COMPOUND	*UNITS*	*SPIKE ADDED*	*SAMPLE CONCENTRATION*	*MS CONCENTRATION*	*MS % REC*	*MS % REC FLAG*	*QC. LIMITS*
1-Methylnaphthalene	ug/kg	195	0	240	124		40 - 140
2-Methylnaphthalene	ug/kg	195	0	214	110		40 - 140
Acenaphthene	ug/kg	195	0	135	70		40 - 140
Acenaphthylene	ug/kg	195	0	177	91		40 - 140
Anthracene	ug/kg	195	0	182	94		40 - 140
Benzo(a)anthracene	ug/kg	195	28.9	241	109		40 - 140
Benzo(a)pyrene	ug/kg	195	0	168	86		40 - 140
Benzo(b)fluoranthene	ug/kg	195	0	196	101		40 - 140
Benzo(g,h,i)perylene	ug/kg	195	0	140	72		40 - 140
Benzo(k)fluoranthene	ug/kg	195	0	183	94		40 - 140
Chrysene	ug/kg	195	0	249	128		40 - 140
Dibenz(a,h)anthracene	ug/kg	195	0	270	139		40 - 140
Fluoranthene	ug/kg	195	0	195	100		40 - 140
Fluorene	ug/kg	195	0	203	104		40 - 140
Indeno(1,2,3-cd)pyrene	ug/kg	195	0	179	92		40 - 140
Naphthalene	ug/kg	195	0	136	70		40 - 140
Phenanthrene	ug/kg	195	23	198	90		40 - 140
Pyrene	ug/kg	195	0	198	102		40 - 140

RPD : 1 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

RESUBMITTED

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: SW-846 8310

Prep Batch: 265228 Analytical Batch: 265256

Spike Dupe HSN : 20311062417

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
1-Methylnaphthalene	ug/kg	195	226	116		6		40 - 140	0 - 30
2-Methylnaphthalene	ug/kg	195	189	97		13		40 - 140	0 - 30
Acenaphthene	ug/kg	195	124	64		9		40 - 140	0 - 30
Acenaphthylene	ug/kg	195	198	102		11		40 - 140	0 - 30
Anthracene	ug/kg	195	171	88		6		40 - 140	0 - 30
Benzo(a)anthracene	ug/kg	195	211	94		13		40 - 140	0 - 30
Benzo(a)pyrene	ug/kg	195	142	73		17		40 - 140	0 - 30
Benzo(b)fluoranthene	ug/kg	195	164	85		17		40 - 140	0 - 30
Benzo(g,h,i)perylene	ug/kg	195	114	59		20		40 - 140	0 - 30
Benzo(k)fluoranthene	ug/kg	195	160	82		14		40 - 140	0 - 30
Chrysene	ug/kg	195	206	106		19		40 - 140	0 - 30
Dibenz(a,h)anthracene	ug/kg	195	165	85		48	*	40 - 140	0 - 30
Fluoranthene	ug/kg	195	182	94		7		40 - 140	0 - 30
Fluorene	ug/kg	195	160	82		24		40 - 140	0 - 30
Indeno(1,2,3-cd)pyrene	ug/kg	195	156	80		14		40 - 140	0 - 30
Naphthalene	ug/kg	195	139	71		2		40 - 140	0 - 30
Phenanthrene	ug/kg	195	168	75		17		40 - 140	0 - 30
Pyrene	ug/kg	195	164	85		19		40 - 140	0 - 30

RPD : 1 out of 18 outside limits

Spike Recovery: 0 out of 36 outside limits

RESUBMITTED

3F

SOILORGANIC MS/MSD RECOVERY

Lab Name: GCAL Sample ID: 86-B101-S-1105-03

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203110624

Contract: Method: FLORIDA PRO

Prep Batch: 265229 Analytical Batch: 265529

Spike HSN : 20311062416

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
Petroleum Hydrocarbons	ug/kg	79200	917000	3160000	2830	*	62 - 204

Spike Dupe HSN : 20311062417

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
Petroleum Hydrocarbons	ug/kg	79200	3040000	2680	*	4		62 - 204	0 - 25

RPD : 0 out of 1 outside limits

Spike Recovery: 2 out of 2 outside limits