

NJ DOT Credit Union

Phase II Site Investigation
Ballfield Portion of the Former
General Motors Facility
Ewing, New Jersey

October 2001

ENVIRONMENTAL RESOURCES MANAGEMENT

ERM Project Number: FM101.00.01
Environmental Resources Management, Inc.
Princeton Crossroad Corporate Center
250 Phillips Boulevard, Suite 280
Ewing, NJ 08618



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This report presents the results of the Phase II Environmental Site Assessment conducted at a portion of the former General Motors (GM) facility (the site) located in Ewing, New Jersey. The subject property comprises a small parcel of land located near the northeastern corner of the GM facility. A site location map is presented as Figure 1.

In April 2001 Environmental Resources Management, Inc. (ERM) completed a Phase I Environmental Site Assessment (ESA) at the site. The Phase I Report was prepared for the New Jersey Department of Transportation Credit Union (NJDOT CU) to assist in the identification and evaluation of potential environmental liabilities associated with the historical and ongoing activities on the subject property and adjacent sites.

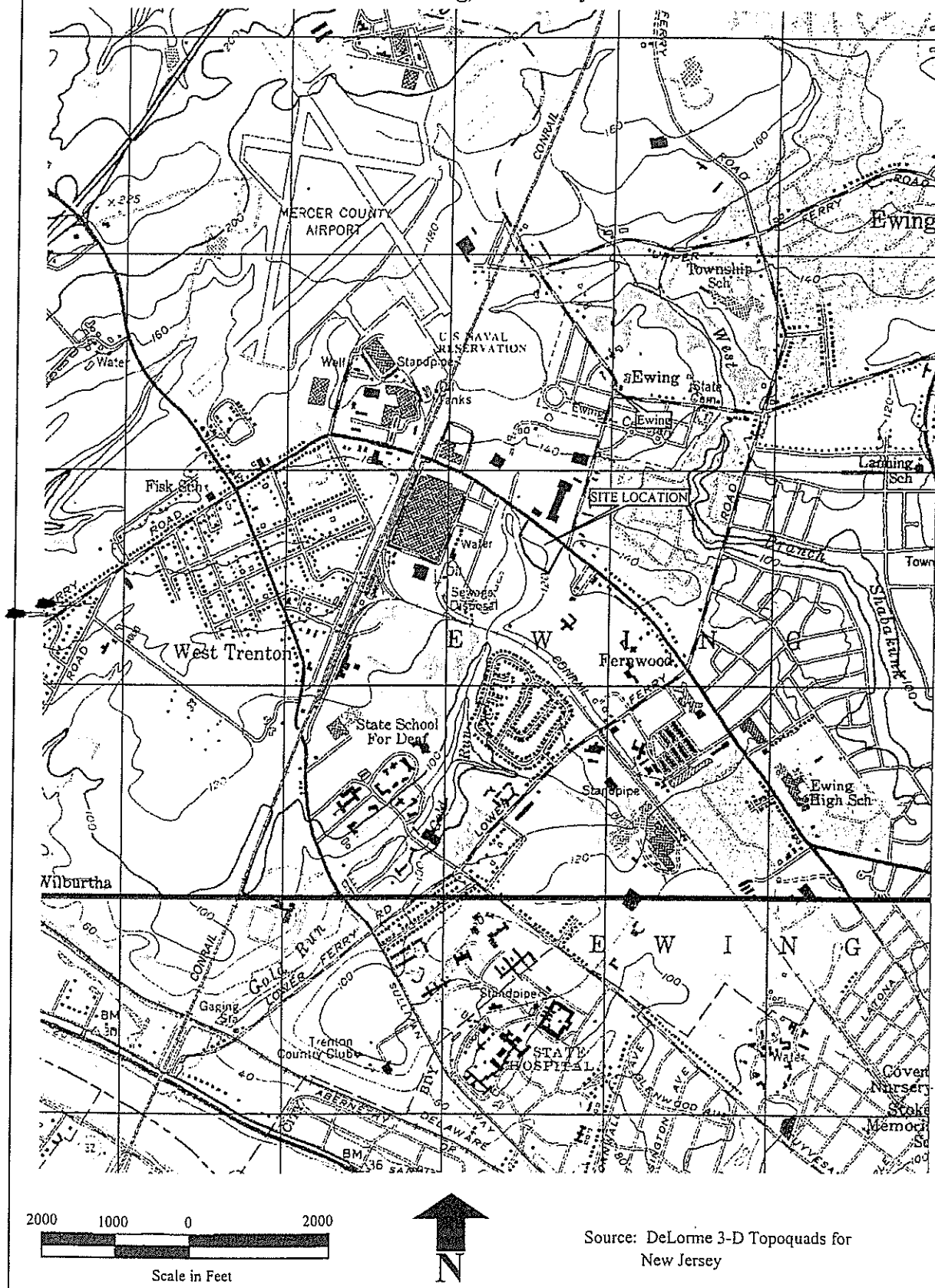
The Phase II ESA consisted of a focused site investigation to assess the potential impacts to the subject property from the adjacent industrial activities identified during the completion of the Phase I ESA. This report presents the results of the Phase II ESA. This Phase II ESA report is divided into four sections. Section 1 presents pertinent site background information; Section 2 discusses the Phase II ESA sampling strategy and methodology; Section 3 presents the sampling results; and Section 4 provides a summary and conclusions.

SUMMARY OF EXISTING CONDITIONS

The results from the Phase I ESA indicated no evidence of recognized environmental conditions in connection with the site, except for the following issues summarized below.

- The property's location adjacent to the manufacturing area of the GM facility poses a potential environmental concern. The past, heavy industrial use of the GM facility increases the potential for environmental impacts to have occurred at the subject property.
- In addition, there are two specific areas associated with the former GM plant that pose a potential environmental concern. The first area is a former drum disposal site located approximately one hundred feet south of the subject property. GM conducted a remedial action at this location in 1997 that consisted of the removal of 98 buried 55-gallon

Figure 1
Site Location Map
 Ballfield Portion of the Fomer GM Facility
 Ewing, New Jersey



drums of barium chromate based yellow paint pigment and the excavation of visually contaminated soils.

- The second area of concern is Gold Run Creek. As part of their submittal to the NJDEP regarding the subject property, GM conducted a study of the potential for creek bed sediments depositing on the adjacent soil surface during flood events. In October 2000, GM conducted a study that confirmed that elevated concentrations of metals, semi-volatiles and PCBs were found in soil samples collected within 50-100 feet east of Gold Run Creek
- The property's location downgradient to the US Naval Air Propulsion Center also poses a potential environmental concern. This facility is identified within several environmental databases, including the following: CERCLIS-NFRAP; CORRACTS; RCRIS Large Quantitiy Hazardous Waste Generators; RCRIS Hazardous Waste Transportation; Storage and Disposal Facilities; State Hazardous Waste Sites; and Leaking Underground Storage Tanks.

These issues/areas of potential concern have been designated as AOC-1, Gold Run Creek; AOC-2, Drum Disposal Site; and AOC-3 General Site Conditions.

1.2

PHYSICAL SETTING

The subject property, a portion of the former GM manufacturing facility, is located near the center of the city of Ewing, New Jersey within a commercial area. The subject property has never been developed, and has experienced only limited use by GM as a field for employee softball games during the 1950s and 1960s. However, the former GM facility immediately adjacent to the subject property has been utilized for manufacturing by various GM subsidiaries since 1937. Currently, the subject property consists of a grass field that gently slopes to the southwest towards Gold Run Creek. Gold Run Creek occupies the southern and western property boundary.

1.3

SITE HISTORY AND CONDITIONS

As indicated previously, the subject property has never been developed. However, the General Motors facility has been operated by several different GM subsidiaries since 1937. The following table provides a site

history for the facility and information regarding the use of the property by these operations.

Years of Operation	Company	Operations
1937 - 1942	GM (Ternstedt)	Construction of the facility
1942 - 1945	Eastern Aircraft	Manufacture of Torpedo Bombers
1945 - 1968	GM (Ternstedt)	Manufacture of window regulators, door handles, seat adjustors
1968 - 1970	Fisher Body	Manufacture expanded to include aluminum plating and plastic injection molding
1970 - 1976	Fisher Body	Vent window production stopped, replaced by manufacture of PVC plastic body moldings.
1976 - 1984	Fisher Body	Aluminum plating operations stopped, replaced by manufacture of encapsulated glass products
1984 - 1989	Fisher Guide	Powder coating painting, bilaminate roll form and extrusion manufacturing operations
1989 - 1997	Inland Fisher Guide	Powder coating painting, bilaminate roll form and extrusion manufacturing operations

1.4

GEOLOGY AND HYDROGEOLOGY

Information regarding the geology at the site was obtained during the installation of several Geoprobe borings. The maximum depth of these borings was approximately 10 feet. Ground water was encountered within a number of the deeper borings at depths ranging from 7 to 10 feet bgs. Based on local surface water patterns and topography, shallow ground water is expected to flow towards Gold Run Creek located to the south and west of the subject property.

Information provided in the site investigation and remedial investigations completed by GM indicates that the Gold Run Creek is a gaining stream. This means that ground water on either side of the stream tends to flow towards and then flows with the stream. This factor is important due to the fact that the stream creates a barrier which hinders contaminant flow from one side of the stream to another.

Boring logs prepared for each of the soil borings installed onsite as part of the Phase II ESA indicate that the subsurface primarily consists of a layer of light brown silty sand underlain by orange-brown and reddish sands; a whitish clay layer was present in a number of the borings. Red shale was also observed in some of the deeper borings below the sand layers. Logs for each of the borings performed as part of this investigation are provided as Appendix A of this report.

1.5

OBJECTIVES AND STRATEGY

The objective of the Phase II ESA was to determine if any of the AOCs identified above have impacted soils and/or ground water at the site. The Phase II ESA sampling consisted of a focused investigation to determine whether soil and groundwater at the site has been impacted. During the Phase II ESA, a total of nine soil samples (from nine soil borings) and one ground water sample were collected at the site.

Each of the above general and site specific issues were evaluated as follows:

- The results from soil borings SB001 and SB002, in addition to ground water sample GW001, were used to assess potential impacts related to the former drum disposal area.
- The results from soil borings SB003, SB004, and SB005 were used to assess general site conditions.

- The results from soil borings SB006, SB007, SB008, and SB009 were used to assess potential impacts related to Gold Run Creek.

The following section presents the sampling methodology used in the geophysical investigation and the collection of soil and groundwater samples at the site. All sampling was completed in accordance with the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) and the NJDEP Field Sampling Procedures Manual (May 1992).

2.1

SOIL SAMPLING

Nine soil borings were completed at the site on 18 July 2001. A soil boring and sample location plan is presented as Figure 2. Soil boring logs are presented in Appendix A.

The soil borings were completed using Geoprobe direct-push drilling technologies. The Geoprobe was used to advance the soil boring and retrieve soil cores by pushing a four-foot long macro-core into the soil. When the macro-core was full of soil it was removed from the borehole and the soil core was extracted from it. Each boring was advanced to a maximum depth of ten feet bgs or until groundwater or refusal was encountered, whichever occurred first. An ERM geologist logged the soil that was collected from each soil boring. The PID was used to field screen the soil cores for the absence or presence of volatile organic vapors. Samples collected from AOC 1 were collected at the appropriate interval to evaluate the former drum disposal area (3.5 - 5' bgs). Samples collected from AOC 2 were collected from the upper six inches of soil in order to evaluate sediment deposition in these areas. Borings installed in order to evaluate general site conditions (AOC 3) were sampled from the one-half foot interval exhibiting the highest PID readings within each boring.

Samples were collected in accordance with the procedures outlined in the NJDEP Technical Requirements for Site Remediation. Soil samples were transferred to labeled, laboratory-supplied sample containers. Samples that were collected for the purpose of evaluating volatile compounds in soil were collected in accordance with the procedures outlined in the NJDEP's *Protection Methodology for the Field Extraction/Preservation of Soil Samples with Methanol for Volatile Organic Compounds*. Once full, the sample containers were tightly sealed, put into individual zip-lock bags and then placed inside an ice-filled cooler for shipment to the analytical laboratory for analyses of VOCs.

The sampler was decontaminated between each use using a five -step decontamination procedure. The steps followed in this procedure are as follows:

- wire brush cleaning with laboratory grade detergent
- distilled water rinse
- isopropanol rinse
- distilled water rinse
- air dry

Table 1 presents the sample matrix summary for the soil borings showing sample depths and analytical lists. Specific sample depths were selected as noted above. Soil samples collected at each AOC were analyzed according to the potential contaminants associated with the AOC.

- Soil borings SB001 and SB002 assessed potential impacts related to the former drum disposal area. The borings were located along the proposed subject property's southern border. One sample was collected from each soil boring at a depth that corresponds to the approximate former depth of the buried drums. SB001 and SB002 were analyzed for volatile organics and metals. A ground water sample was collected from SB001, and was analyzed for volatile organics and metals.
- Soil borings SB003, SB004, and SB005 were used to assess general site conditions. Since GM had not conducted any prior sampling on the subject property, these three borings were installed on the property at locations determined in the field based upon scientific judgement. Soil samples from these borings were analyzed for volatile organics, semi-volatile organics, polychlorinated biphenyls, and metals.
- Soil borings SB006, SB007, SB008, and SB009 were used to assess potential impacts related to Gold Run Creek. Surficial soil samples from these borings were analyzed for semi-volatile organics, PCBs, and metals in order to confirm the results of the delineation sampling program conducted by GM along Gold Run Creek. Borings were installed adjacent to the proposed western boundary of the subject property.

The soil samples were packed into coolers and hand-delivered to the analytical laboratory, STL-Envirotech, Inc. All samples were analyzed on a standard turn-around basis.

Figure 2
Sample Location Map
Ballfield Portion of
The Former GM Plant
Ewing, New Jersey



LEGEND

- Soil Boring location
- - - Property Line

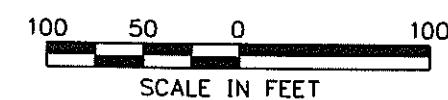


Table 1
Sample Matrix, Intervals and Analyses
NJDOT Credit Union
Ewing, New Jersey

SOIL SAMPLES

Area of Concern	Sample Designation Traffic Report #	Sample Depth (Feet BGS)	Volatile Organics	Semivolatile Organics	Polychlorinated biphenyls	Metals
Drum Disposal Site	SB001	4.0-5.0	X			X
	SB002	3.5-4.0	X			X
General Site Conditions	SB003	7.5-8.0	X	X	X	X
	SB004	6.0-6.5	X	X	X	X
	SB005	2.5-3.0	X	X	X	X
Gold Run Creek	SB006	0.25-0.75		X	X	X
	SB007	0.25-0.75		X	X	X
	SB008	0.25-0.75		X	X	X
	SB009	0.25-0.75		X	X	X

GROUND WATER SAMPLES

Area of Concern	Sample Designation Traffic Report #	Depth to Water (Feet BGS)	Volatile Organics	Semivolatile Organics	Polychlorinated biphenyls	Metals
Drum Disposal Site	GW001	~7.5	X			X

Notes:

X indicates that the sample was analyzed for this
parameter

2.2

LABORATORY ANALYSIS AND DATA QUALITY

Soil and groundwater samples were analyzed at STL-New Jersey, Inc., Edison, NJ, NJDEP Laboratory Certification Number 12028. Turn around time was standard with no rush delivery of results. All samples were delivered to the laboratory under chain of custody. All samples were received at the laboratory at the appropriate temperature and with the proper preservation. Sample analyses were all completed within method holding times. The complete laboratory analytical data package is included as Appendix B of this report.

2.3

COMPARISON TO APPLICABLE STANDARDS

The laboratory results were submitted to ERM in electronic format. The soil results were then compared to the NJDEP's Residential Direct Contact Soil Cleanup Criterion (RDCSCC), the NJDEP's Non-Residential Direct Contact Soil Cleanup Criterion (NRDCSCC), and the NJDEP's Impact to Ground Water Soil Cleanup Criterion (IGWSCC). These soil cleanup criteria (SCC) are used by the NJDEP to determine whether no further action is warranted or whether additional remediation is necessary. For unrestricted use, the soil concentrations must be below the most stringent clean-up criteria. Groundwater results were compared to the higher of NJDEP's PQLs and Ground Water Quality Criteria to determine whether no further action is warranted or whether additional remediation is necessary.

This section presents the results of the Phase II ESA. The results are segregated into separate discussions of the drilling observations, and a description and interpretation of the soil and ground water analytical results.

3.1

SOIL AND GROUND WATER QUALITY

A summary of sampling results from each of the nine soil/sediment samples is presented in Table 2. Exceedences of the NJDEP Soil Clean-up Criteria are shown on the tables. Full analytical results including all non-detects are provided in Appendix B.

3.1.1

Former Drum Disposal Site

Soil borings SB001 and SB002 were collected to assess potential impacts associated with this AOC. Each sample was analyzed for volatile organics and metals. The concentration of volatile organics in these samples were below detectable levels. Analysis of these samples for metals indicated that the concentration of metals was either non-detectable or below applicable NJDEP Unrestricted Use Soil Clean-up Criteria.

A ground water sample was collected from boring SB001 and analyzed for volatile organics and metals. Analytical results were compared with the NJDEP Ground Water Quality Criteria Standards. Trichloroethene was detected at 23 ug/L, in exceedence of the applicable NJDEP criteria of 1 ug/L. In addition, arsenic and lead were detected at levels slightly above applicable GWQS standards. It should be noted that ground water samples collected during the site investigation were noted to be very turbid, due to the disturbance of the soil column that occurred during the installation of the geoprobe. This high turbidity likely resulted in the elevated metals concentrations exhibited in the ground water sample collected from SB001.

3.1.2

General Site Conditions

Soil borings SB003, SB004, and SB005 were collected to evaluate general site conditions. Each sample was analyzed for volatile organics, semi-volatile organics, PCBs, and metals. A review of sample results for these samples indicates that the concentrations of volatile organics, semi-volatile

organics and PCBs were not detectable. Analysis of these samples for metals indicated that the concentration of metals was either non-detectable or below applicable NJDEP Unrestricted Use Soil Clean-up Criteria.

3.1.3 Gold Run Creek

Soil borings SB006, SB007, SB008, and SB009 were collected in order to assess potential impacts related to Gold Run Creek and to confirm the results of the delineation sampling program conducted by GM along the creek. The four surficial soil samples were analyzed for semi-volatile organics, PCBs, and metals. Semi-volatiles were not detected in sample SB008. Semi-volatiles were detected in samples SB006, SB007 and SB009. However, the concentrations were estimated values and were below applicable NJDEP Unrestricted Use Soil Clean-up Criteria. PCBs were not detected in soil samples SB006, SB008 and SB009. The PCB, Aroclor 1248 was detected in SB007 at a concentration of 0.14 mg/kg. This concentration is below applicable NJDEP Unrestricted Use Soil Clean-up Criteria. Analysis of these samples for metals indicated that the concentration of metals was either non-detectable or below applicable NJDEP Unrestricted Use Soil Clean-up Criteria.

Table 2
Summary of Soil and Ground Water Sampling Analytical Results
NJDOT Credit Union
Ewing, New Jersey

Sample ID	NJDEP Residential	NJDEP Non-Residential	NJDEP Impact to	NJDEP Higher of PQLs	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6
Sampling Date	Direct	Direct	Ground Water	and Ground Water	7/18/01	7/18/01	7/18/01	7/18/01	7/18/01	7/18/01
Matrix	Contact Soil	Contact Soil	Soil Clean-up	Quality	Soil	Soil	Soil	Soil	Soil	Soil
Units	Clean-up Criteria	Clean-up Criteria	Criteria	Criteria	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Depth (feet b.g.s)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)	4.0 - 5.0	3.5 - 4.0	7.5 - 8.0	6.0 - 6.5	2.5 - 3.0	0.25 - 0.75
Volatile Organics										
Chloromethane	520	1000	10	30	ND	ND	ND	ND	ND	NA
Bromomethane	79	1000	1	10	ND	ND	ND	ND	ND	NA
Vinyl chloride	2	7	10	5	ND	ND	ND	ND	ND	NA
Chloroethane	—	—	—	—	ND	ND	ND	ND	ND	NA
Methylene chloride	49	210	1	—	ND	ND	ND	ND	ND	NA
Trichlorofluoromethane	—	—	—	—	ND	ND	ND	ND	ND	NA
1,1-Dichloroethene	8	150	10	2	ND	ND	ND	ND	ND	NA
1,1,1-Trichloroethane	570	1000	10	—	ND	ND	ND	ND	ND	NA
trans-1,2-Dichloroethene	1000	1000	50	100	ND	ND	ND	ND	ND	NA
cis-1,2-Dichloroethene	79	1000	1	—	ND	ND	ND	ND	ND	NA
Chloroform	19	28	1	6	ND	ND	ND	ND	ND	NA
1,2-Dichloroethane	6	24	1	2	ND	ND	ND	ND	ND	NA
1,1,1-Trichloroethane	210	1000	50	30	ND	ND	ND	ND	ND	NA
Carbon tetrachloride	2	4	1	2	ND	ND	ND	ND	ND	NA
Bromodichloromethane	11	46	1	1	ND	ND	ND	ND	ND	NA
1,2-Dichloropropane	10	43	—	1	ND	ND	ND	ND	ND	NA
cis-1,3-Dichloropropene	4	5	1	—	ND	ND	ND	ND	ND	NA
Trichloroethene	23	54	1	1	ND	ND	ND	ND	ND	NA
Dibromochloromethane	110	1000	1	10	ND	ND	ND	ND	ND	NA
1,1,2-Trichloroethane	22	420	1	3	ND	ND	ND	ND	ND	NA
Benzene	3	13	1	1	ND	ND	ND	ND	ND	NA
trans-1,3-Dichloropropene	4	5	1	—	ND	ND	ND	ND	ND	NA
2-Chloroethyl vinyl ether	—	—	—	—	ND	ND	ND	ND	ND	NA
Bromoform	86	370	1	4	ND	ND	ND	ND	ND	NA
Tetrachloroethene	4	6	1	1	ND	ND	ND	ND	ND	NA
1,1,2,2-Tetrachloroethane	34	70	1	—	ND	ND	ND	ND	ND	NA
Toluene	1000	1000	500	1000	ND	ND	ND	ND	ND	NA
Chlorobenzene	37	680	1	—	ND	ND	ND	ND	ND	NA
Ethylbenzene	1000	1000	100	700	ND	ND	ND	ND	ND	NA
Xylenes (Total)	410	1000	67	—	ND	ND	ND	ND	ND	NA
Metals										
Arsenic	20	20	—	8	2.6	5.6	2.0	3.3	4.2	5.3
Barium	700	47000	—	2000	87.0	55.0	157	627	107	100
Cadmium	39	100	—	4	ND	ND	ND	ND	ND	ND
Chromium	—	—	—	100	16.5	19.2	22.1	8.3	26.8	15
Lead	400	600	—	10	8.4	9.3	5.6	ND	8.6	18.9
Mercury	14	270	—	2	ND	0.02 B	ND	ND	0.04 B	0.06
Selenium	63	3100	—	50	ND	ND	ND	ND	ND	ND
Silver	110	4100	—	—	ND	ND	ND	ND	ND	ND

Table 2
Summary of Soil and Ground Water Sampling Analytical Results
NJDOT Credit Union
Ewing, New Jersey

Sample ID	NJDEP Residential	NJDEP Non-Residential	NJDEP Impact to	NJDEP Higher of PQLs	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6
Sampling Date	Direct	Direct	Ground Water	and Ground Water	7/18/01	7/18/01	7/18/01	7/18/01	7/18/01	7/18/01
Matrix	Contact Soil	Contact Soil	Soil Clean-up	Quality	Soil	Soil	Soil	Soil	Soil	Soil
Units	Clean-up Criteria	Clean-up Criteria	Criteria	Criteria	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Sample Depth (feet b.g.s)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)	4.0 - 5.0	3.5 - 4.0	7.5 - 8.0	6.0 - 6.5	2.5 - 3.0	0.25 - 0.75
Polychlorinated Biphenyls										
Aroclor 1016	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1221	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1232	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1242	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1248	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1254	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1260	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1262	---	---	---	---	NA	NA	ND	ND	ND	ND
Aroclor 1268	---	---	---	---	NA	NA	ND	ND	ND	ND
Total PCBS	0.49	2	50	0.5	NA	NA	ND	ND	ND	ND
Semi-Volatile Organics										
Naphthalene	230	4200	100	---	NA	NA	ND	ND	ND	ND
Acenaphthylene	---	---	---	---	NA	NA	ND	ND	ND	ND
Acenaphthene	3400	10000	100	400	NA	NA	ND	ND	ND	ND
Fluorene	2300	10000	100	300	NA	NA	ND	ND	ND	ND
Phenanthrene	---	---	---	---	NA	NA	ND	ND	ND	ND
Anthracene	10000	10000	100	2000	NA	NA	ND	ND	ND	.019 J
Fluoranthene	2300	10000	100	300	NA	NA	ND	ND	ND	ND
Pyrene	1700	10000	100	200	NA	NA	ND	ND	ND	.029 J
Benzo(a)anthracene	0.9	4	500	---	NA	NA	ND	ND	ND	.028 J
Chrysene	9	40	500	---	NA	NA	ND	ND	ND	.024 J
Benzo(b)fluoranthene	0.9	4	50	---	NA	NA	ND	ND	ND	.018 J
Benzo(k)fluoranthene	0.9	4	500	---	NA	NA	ND	ND	ND	.020 J
Benzo(a)pyrene	0.66	0.66	100	---	NA	NA	ND	ND	ND	.001 J
Indeno(1,2,3-cd)pyrene	0.9	4	500	---	NA	NA	ND	ND	ND	.015 J
Dibenzo(a,h)anthracene	0.66	0.66	100	---	NA	NA	ND	ND	ND	.001 J
Benzo(g,h,i)perylene	---	---	---	---	NA	NA	ND	ND	ND	ND

NA - Not Analyzed

ND - Not Detected

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit

J - Estimated Value

Values bolded and outlined with box exceed NJDEP Clean-up Standards

Table 2
Summary of Soil and Ground Water Sampling Analytical Results
NJDOT Credit Union
Ewing, New Jersey

Sample ID	NJDEP Residential	NJDEP Non-Residential	NJDEP Impact to Ground Water	NJDEP Higher of PQLs and Ground Water	SB-7 7/18/01 Soil mg/kg 0.25 - 0.75	SB-8 7/18/01 Soil mg/kg 0.25 - 0.75	SB-9 7/18/01 Soil mg/kg 0.25 - 0.75	GW-1 7/18/01 Water mg/l NA
Sampling Date	Direct	Direct	Ground Water	and Ground Water				
Matrix	Contact Soil	Contact Soil	Soil Clean-up	Quality				
Units	Clean-up Criteria	Clean-up Criteria	Criteria	Criteria				
Sample Depth (feet b.g.s)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)				
Volatile Organics								
Chloromethane	520	1000	10	30	NA	NA	NA	ND
Bromomethane	79	1000	1	10	NA	NA	NA	ND
Vinyl chloride	2	7	10	5	NA	NA	NA	ND
Chloroethane	—	—	—	—	NA	NA	NA	ND
Methylene chloride	49	210	1	—	NA	NA	NA	ND
Trichlorofluoromethane	—	—	—	—	NA	NA	NA	ND
1,1-Dichloroethene	8	150	10	2	NA	NA	NA	ND
1,1-Dichloroethane	570	1000	10	—	NA	NA	NA	ND
trans-1,2-Dichloroethene	1000	1000	50	100	NA	NA	NA	ND
cis-1,2-Dichloroethene	79	1000	1	—	NA	NA	NA	2.7
Chloroform	19	28	1	6	NA	NA	NA	0.3
1,2-Dichloroethane	6	24	1	2	NA	NA	NA	ND
1,1,1-Trichloroethane	210	1000	50	30	NA	NA	NA	ND
Carbon tetrachloride	2	4	1	2	NA	NA	NA	ND
Bromodichloromethane	11	46	1	1	NA	NA	NA	ND
1,2-Dichloropropane	10	43	—	1	NA	NA	NA	ND
cis-1,3-Dichloropropene	4	5	1	—	NA	NA	NA	ND
Trichloroethene	23	54	1	1	NA	NA	NA	23
Dibromochloromethane	110	1000	1	10	NA	NA	NA	ND
1,1,2-Trichloroethane	22	420	1	3	NA	NA	NA	ND
Benzene	3	13	1	1	NA	NA	NA	ND
trans-1,3-Dichloropropene	4	5	1	—	NA	NA	NA	ND
2-Chloroethyl vinyl ether	—	—	—	—	NA	NA	NA	ND
Bromoform	86	370	1	4	NA	NA	NA	ND
Tetrachloroethene	4	6	1	1	NA	NA	NA	ND
1,1,2,2-Tetrachloroethane	34	70	1	—	NA	NA	NA	ND
Toluene	1000	1000	500	1000	NA	NA	NA	ND
Chlorobenzene	37	680	1	—	NA	NA	NA	ND
Ethylbenzene	1000	1000	100	700	NA	NA	NA	ND
Xylenes (Total)	410	1000	67	—	NA	NA	NA	ND
Metals								
Arsenic	20	20	—	8	5.1	8.2	7.0	13.6
Barium	700	47000	—	2000	82.3	61.9	60.1	2230
Cadmium	39	100	—	4	ND	ND	ND	ND
Chromium	—	—	—	100	13.3	22.3	19.7	54
Lead	400	600	—	10	17.4	13.0	14.7	19.9
Mercury	14	270	—	2	0.07	0.05	0.05	0.13
Selenium	63	3100	—	50	ND	ND	ND	ND
Silver	110	4100	—	—	ND	ND	ND	ND

Table 2
Summary of Soil and Ground Water Sampling Analytical Results
NJDOT Credit Union
Ewing, New Jersey

Sample ID	NJDEP Residential	NJDEP Non-Residential	NJDEP Impact to Ground Water	NJDEP Higher of PQLs and Ground Water	SB-7 7/18/01 Soil mg/kg 0.25 - 0.75	SB-8 7/18/01 Soil mg/kg 0.25 - 0.75	SB-9 7/18/01 Soil mg/kg 0.25 - 0.75	GW-1 7/18/01 Water mg/l NA
Sampling Date	Direct	Direct	Ground Water	and Ground Water				
Matrix	Contact Soil	Contact Soil	Soil Clean-up	Quality				
Units	Clean-up Criteria	Clean-up Criteria	Criteria	Criteria				
Sample Depth (feet b.g.s)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/l)				
Polychlorinated Biphenyls								
Aroclor 1016	---	---	---	---	ND	ND	ND	NA
Aroclor 1221	---	---	---	---	ND	ND	ND	NA
Aroclor 1232	---	---	---	---	ND	ND	ND	NA
Aroclor 1242	---	---	---	---	ND	ND	ND	NA
Aroclor 1248	---	---	---	---	ND	ND	ND	NA
Aroclor 1254	---	---	---	---	0.14	ND	ND	NA
Aroclor 1260	---	---	---	---	ND	ND	ND	NA
Aroclor 1262	---	---	---	---	ND	ND	ND	NA
Aroclor 1268	---	---	---	---	ND	ND	ND	NA
Total PCBs	0.49	2	50	0.5	0.14	ND	ND	NA
Semi-Volatile Organics								
Naphthalene	230	4200	100	---	ND	ND	ND	NA
Acenaphthylene	---	---	---	---	ND	ND	ND	NA
Acenaphthene	3400	10000	100	400	ND	ND	ND	NA
Fluorene	2300	10000	100	300	ND	ND	ND	NA
Phenanthrene	---	---	---	---	.012 J	ND	.019 J	NA
Anthracene	10000	10000	100	2000	ND	ND	ND	NA
Fluoranthene	2300	10000	100	300	26 J	ND	.029 J	NA
Pyrene	1700	10000	100	200	.22 J	ND	.03 J	NA
Benzo(a)anthracene	0.9	4	500	---	.018 J	ND	.025 J	NA
Chrysene	9	40	500	---	.013 J	ND	.018 J	NA
Benzo(b)fluoranthene	0.9	4	50	---	.016 J	ND	.021 J	NA
Benzo(k)fluoranthene	0.9	4	500	---	.0076 J	ND	.012 J	NA
Benzo(a)pyrene	0.66	0.66	100	---	.011 J	ND	.017 J	NA
Indeno(1,2,3-cd)pyrene	0.9	4	500	---	.0078 J	ND	.013 J	NA
Dibenzo(a,h)anthracene	0.66	0.66	100	---	ND	ND	ND	NA
Benzo(g,h,i)perylene	---	---	---	---	.0082 J	ND	.012 J	NA

NA - Not Analyzed

ND - Not Detected

B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit

J - Estimated Value

Values bolded and outlined with box exceed NJDEP Clean-up Standards

ERM completed a Phase II Site Investigation on the Ballfield Portion of the Former General Motors Plant located in Ewing, New Jersey. The investigation consisted of the installation of nine soil borings in order to evaluate three areas of concern identified on the property during the completion of a Phase I Environmental Site Investigation completed in April 2001.

Based upon the results of the Phase II investigation, it is concluded that soil quality on the ballfield portion of the facility has not been impacted as a result of the neighboring industrial activities, the former drum disposal area or as a result of sediment deposition from Gold Run Creek.

Groundwater quality at the site does exhibit elevated concentrations of the volatile organic Trichlorethene and the metals Arsenic and Lead. Historical information obtained during the Phase I investigation indicates that the elevated concentration of Trichloroethene is a regional concern and does not appear to be associated with any direct operations conducted by GM on the ballfield site or any onsite sources. As previously stated, the elevated metals concentrations are likely due to the high turbidity of the ground water sample. Since NJDOT CU does not intend to use the groundwater onsite, no further investigative activities are recommended.

Appendix A
Soil Boring Logs

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB001
Date Completed: 7/18/2001
Borehole Diameter: 2 inch
Total Depth: 9.5 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
NC	NC	0	0.0 - 0.7	SILT. Light brown topsoil, with roots and vegetation.
NC	NC	0.5	0.7 - 3.0	SILT. Orange brown, with some sand.
NC	NC	1.5	3.0 - 4.0	SILT. Brownish red, becoming more red with depth. Some small angular gravel.
4.0-5.0	NC	1.7	4.0-8.0	SAND. Brownish red, larger cobbles at different intervals. Moist at 7.5'.
NC	NC	0	8.0-8.5	CLAY. White with orange sand mottling.
NC	NC	1.5	8.5-9.5	SAND. Black, brown, orange. Coarse grained.

b.g.s.: Below Ground Surface.

NC: Not Collected.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB002
Date Completed: 07/18/01
Borehole Diameter 2 inch
Total Depth: 9.5 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
NC	NC	NC	0.0-1.0	SANDY SILT. Light brown topsoil with vegetation.
NC	NC	NC	1.0-2.5	SILTY SAND. Orange brown.
NC	NC	NC	2.5-3.5	SAND. Brown/dark brown, medium grained. Small, loose gravel.
3.5-4.0	NC	NC	3.5-4.0	CLAYEY SAND. Light brown with white mottling. Dense.
NC	NC	NC	4.0-4.25	CLAY. White-orange.
NC	NC	NC	4.25-9.5	SILT. Red/reddish brown, dense, shale-like, with small gravel. Very moist at 9'.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB003
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 10 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
NC	NC	NC	0.0-1.0	SANDY SILT. Light brown topsoil with vegetation.
NC	NC	NC	1.0-4.0	SILTY SAND. Orange brown, with whitish clay mottling. Loose.
NC	NC	NC	4.0-4.5	SAND. Red brown, coarse to medium grained. Dense.
7.5-8.0	NC	NC	4.5-8.5	SAND. Red brown, medium to fine sand with some silt. Dense layers of shale.
NC	NC	NC	8.5-10.0	SAND. Red brown, coarse. Wet.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB004
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 10 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
NC	NC	NC	0.0-1.5	SILTY SAND. Light brown topsoil.
NC	NC	NC	1.5-4.5	SILTY SAND. Orange brown.
NC	NC	NC	4.5-6.0	SILTY SAND. Red brown, dense.
6.0-6.5	NC	NC	6.0-10.0	SAND. Red with some orange and brown grains, fine to coarse grained. No water.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB005
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 10 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
NC	NC	NC	0.0-1.0	SILTY SAND. Light brown topsoil.
NC	NC	NC	1.0-2.0	SILTY SAND. Orange brown.
NC	NC	NC	2.0-2.5	COBBLE.
2.5-3.0	NC	NC	2.5-8.0	SILTY SAND. Red brown, fine to medium grained. Loose.
NC	NC	NC	8.0-10.0	SHALE. Red brown, weathered. Loose, broken. No water.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB006
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 4 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
0.25-0.75	NC	NC	0.0-1.0	TOPSOIL.
NC	NC	NC	1.0-2.5	SILTY SAND. Light brown, loose.
NC	NC	NC	2.5-4.0	SILTY SAND. Light brown trending to red brown, loose.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB007
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 4 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
0.25-0.75	NC	NC	0.0-0.5	TOPSOIL.
NC	NC	NC	0.5-3.5	SILTY SAND. Orange brown.
NC	NC	NC	3.5-4.0	SHALE. Red brown, mixed with coarse red silty sand.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB008
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 4 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
0.25-0.75	NC	NC	0.0-0.5	TOPSOIL.
NC	NC	NC	0.5-2.5	SILTY SAND. Orange brown.
NC	NC	NC	2.5-4.0	SILTY SAND. Red brown, with pieces of red shale.

Soil Boring Log

Environmental Resources Management

WO No: FM101.00.01
Project: Site Investigation
Client: NJDOT Credit Union
Location: Ewing, New Jersey

Boring Location: SB009
Date Completed: 7/18/2001
Borehole Diameter 2 inch
Total Depth: 4 ft b.g.s.

Method: Geoprobe-Direct Push
Driller: C. Jablonski
Drilling Co: Talon Drilling

Geologist: R. Dixon

Sampled Interval (ft. bgs.)	Blow counts	OVA Response (ppm)	Depth (ft. bgs.)	Soil Description/Classification
0.25-0.75	NC	NC	0.0-0.5	TOPSOIL.
NC	NC	NC	0.5-2.0	SILTY SAND. Orange brown.
NC	NC	NC	2.0-4.0	SILTY SAND. Red brown.

Appendix B
Analytical Data Package

08/22/2001

ERM
250 Phillips Blvd.
Suite 280
Ewing, NJ 08618

Attention: Mr. Rob Dixon

**SEVERN
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SERVICES**

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. M838 - NJDOT Credit Union

Dear Mr. Dixon:

Enclosed are the results you requested for the following sample(s) received at our laboratory on July 19, 2001.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
289205	SB-1	PP VOA+10 RCRA Metals
289206	TB-1	PP VOA+10
289207	FB-1	PP VOA+10 PAHs PCBs Ag,As,Ba,Cd,Cr,Hg,Pb,Se
289208	GW-1	PP VOA+10 Ag,As,Ba,Cd,Cr,Hg,Pb,Se
289209	SB-2	PP VOA+10 RCRA Metals
289210	SB-3	PP VOA+10 PAHs PCBs RCRA Metals
289211	SB-4	PP VOA+10 PAHs PCBs RCRA Metals
289212	SB-5	PP VOA+10



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Edison, NJ 08817

Tel: 732-549-3900

Fax: 732-549-3679

www.stl-inc.comLaboratory Results
Job No. M838 - NJDOT Credit Union (cont'd)

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
		PAHs PCBs RCRA Metals
289213	SB-6	PAHs PCBs RCRA Metals
289214	SB-7	PAHs PCBs RCRA Metals
289215	SB-8	PAHs PCBs RCRA Metals
289216	SB-9	PAHs PCBs RCRA Metals



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Laboratory Results
Job No. M838 - NJDOT Credit Union (cont'd)

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
289217	TB-2	PP VOA+10

An invoice for our services is also enclosed. If you have any questions please contact your Project Manager, Paul Simms, at (732) 549-3900.

Very Truly Yours,



Michael J. Urban
Laboratory Director



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Analytical Results Summary

Client ID: SB-1
Site: NJDOT Credit Union

Lab Sample No: 289205
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21318.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

Client ID: SB-1
Site: NJDOT Credit Union

Lab Sample No: 289205
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21318.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TB-1
Site: NJDOT Credit Union

Lab Sample No: 289206
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21319.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg	Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

Client ID: TB-1
Site: NJDOT Credit Union

Lab Sample No: 289206
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21319.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
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22.			
23.			
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26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: GW-1
Site: NJDOT Credit Union

Lab Sample No: 289208
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	2.7	0.2
Chloroform	0.3	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	23	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: GW-1
Site: NJDOT Credit Union

Lab Sample No: 289208
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
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26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

Client ID: SB-2
 Site: NJDOT Credit Union

Lab Sample No: 289209
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01
 Date Analyzed: 07/21/01
 GC Column: DB624
 Instrument ID: VOAMS4.i
 Lab File ID: d21317.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.0 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 9

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	690
Bromomethane	ND	690
Vinyl Chloride	ND	690
Chloroethane	ND	690
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	690
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	690
trans-1,2-Dichloroethene	ND	690
cis-1,2-Dichloroethene	ND	690
Chloroform	ND	690
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	690
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	690
Trichloroethene	ND	140
Dibromochloromethane	ND	690
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	690
2-Chloroethyl Vinyl Ether	ND	690
Bromoform	ND	550
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	690
Chlorobenzene	ND	690
Ethylbenzene	ND	550
Xylene (Total)	ND	690

Client ID: SB-2
 Site: NJDOT Credit Union

Lab Sample No: 289209
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01
 Date Analyzed: 07/21/01
 GC Column: DB624
 Instrument ID: VOAMS4.i
 Lab File ID: d21317.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.0 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 8.9

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21320.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	730
Bromomethane	ND	730
Vinyl Chloride	ND	730
Chloroethane	ND	730
Methylene Chloride	ND	440
Trichlorofluoromethane	ND	730
1,1-Dichloroethene	ND	290
1,1-Dichloroethane	ND	730
trans-1,2-Dichloroethene	ND	730
cis-1,2-Dichloroethene	ND	730
Chloroform	ND	730
1,2-Dichloroethane	ND	290
1,1,1-Trichloroethane	ND	730
Carbon Tetrachloride	ND	290
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	730
Trichloroethene	ND	140
Dibromochloromethane	ND	730
1,1,2-Trichloroethane	ND	440
Benzene	ND	140
trans-1,3-Dichloropropene	ND	730
2-Chloroethyl Vinyl Ether	ND	730
Bromoform	ND	580
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	730
Chlorobenzene	ND	730
Ethylbenzene	ND	580
Xylene (Total)	ND	730

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21320.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21321.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	780
Bromomethane	ND	780
Vinyl Chloride	ND	780
Chloroethane	ND	780
Methylene Chloride	ND	470
Trichlorofluoromethane	ND	780
1,1-Dichloroethene	ND	310
1,1-Dichloroethane	ND	780
trans-1,2-Dichloroethene	ND	780
cis-1,2-Dichloroethene	ND	780
Chloroform	ND	780
1,2-Dichloroethane	ND	310
1,1,1-Trichloroethane	ND	780
Carbon Tetrachloride	ND	310
Bromodichloromethane	ND	160
1,2-Dichloropropane	ND	160
cis-1,3-Dichloropropene	ND	780
Trichloroethene	ND	160
Dibromochloromethane	ND	780
1,1,2-Trichloroethane	ND	470
Benzene	ND	160
trans-1,3-Dichloropropene	ND	780
2-Chloroethyl Vinyl Ether	ND	780
Bromoform	ND	620
Tetrachloroethene	ND	160
1,1,2,2-Tetrachloroethane	ND	160
Toluene	ND	780
Chlorobenzene	ND	780
Ethylbenzene	ND	620
Xylene (Total)	ND	780

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21321.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21405.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	750
Bromomethane	ND	750
Vinyl Chloride	ND	750
Chloroethane	ND	750
Methylene Chloride	ND	450
Trichlorofluoromethane	ND	750
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	750
trans-1,2-Dichloroethene	ND	750
cis-1,2-Dichloroethene	ND	750
Chloroform	ND	750
1,2-Dichloroethane	ND	300
1,1,1-Trichloroethane	ND	750
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	750
Trichloroethene	ND	150
Dibromochloromethane	ND	750
1,1,2-Trichloroethane	ND	450
Benzene	ND	150
trans-1,3-Dichloropropene	ND	750
2-Chloroethyl Vinyl Ether	ND	750
Bromoform	ND	600
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	750
Chlorobenzene	ND	750
Ethylbenzene	ND	600
Xylene (Total)	ND	750

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21405.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TB-2
Site: NJDOT Credit Union

Lab Sample No: 289217
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: TB-2
 Site: NJDOT Credit Union

Lab Sample No: 289217
 Lab Job No: M838

Date Sampled: 07/17/01
 Date Received: 07/19/01
 Date Analyzed: 07/24/01
 GC Column: DB624
 Instrument ID: VOAMS6.i
 Lab File ID: f26794.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/26/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5770.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

PAH - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u>
		<u>Units: ug/l</u>
Naphthalene	ND	0.6
Acenaphthylene	ND	0.6
Acenaphthene	ND	0.6
Fluorene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.4
Fluoranthene	ND	0.4
Pyrene	ND	0.4
Benzo(a) anthracene	ND	0.4
Chrysene	ND	0.5
Benzo(b) fluoranthene	ND	0.3
Benzo(k) fluoranthene	ND	0.8
Benzo(a) pyrene	ND	0.2
Indeno(1,2,3-cd) pyrene	ND	0.1
Dibenz(a,h) anthracene	ND	0.6
Benzo(g,h,i) perylene	ND	0.4

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16538.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 18

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u>
		<u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND	410
Acenaphthylene	ND	410
Acenaphthene	ND	410
Fluorene	ND	410
Phenanthrene	ND	410
Anthracene	ND	410
Fluoranthene	ND	410
Pyrene	ND	41
Benzo(a)anthracene	ND	410
Chrysene	ND	41
Benzo(b)fluoranthene	ND	41
Benzo(k)fluoranthene	ND	41
Benzo(a)pyrene	ND	41
Indeno(1,2,3-cd)pyrene	ND	41
Dibenz(a,h)anthracene	ND	410
Benzo(g,h,i)perylene	ND	

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16539.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	ND	400
Anthracene	ND	400
Fluoranthene	ND	400
Pyrene	ND	400
Benzo (a) anthracene	ND	40
Chrysene	ND	400
Benzo (b) fluoranthene	ND	40
Benzo (k) fluoranthene	ND	40
Benzo (a) pyrene	ND	40
Indeno (1,2,3-cd) pyrene	ND	40
Dibenz (a,h) anthracene	ND	40
Benzo (g,h,i) perylene	ND	400

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16540.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 18

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND		400
Acenaphthylene	ND		400
Acenaphthene	ND		400
Fluorene	ND		400
Phenanthrene	ND		400
Anthracene	ND		400
Fluoranthene	ND		400
Pyrene	ND		40
Benzo(a)anthracene	ND		400
Chrysene	ND		40
Benzo(b)fluoranthene	ND		40
Benzo(k)fluoranthene	ND		40
Benzo(a)pyrene	ND		40
Indeno(1,2,3-cd)pyrene	ND		40
Dibenz(a,h)anthracene	ND		40
Benzo(g,h,i)perylene	ND		400

Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample No: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16522.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	19 J	400
Anthracene	ND	400
Fluoranthene	29 J	400
Pyrene	28 J	400
Benzo(a)anthracene	24 J	40
Chrysene	18 J	400
Benzo(b)fluoranthene	20 J	40
Benzo(k)fluoranthene	10 J	40
Benzo(a)pyrene	15 J	40
Indeno(1,2,3-cd)pyrene	10 J	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	9.6J	400

Client ID: SB-7
Site: NJDOT Credit Union

Lab Sample No: 289214
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16541.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Naphthalene	ND	380
Acenaphthylene	ND	380
Acenaphthene	ND	380
Fluorene	ND	380
Phenanthrene	12 J	380
Anthracene	ND	380
Fluoranthene	26 J	380
Pyrene	22 J	380
Benzo(a)anthracene	18 J	38
Chrysene	13 J	380
Benzo(b)fluoranthene	16 J	38
Benzo(k)fluoranthene	7.6J	38
Benzo(a)pyrene	11 J	38
Indeno(1,2,3-cd)pyrene	7.8J	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	8.2J	380

Client ID: SB-8
Site: NJDOT Credit Union

Lab Sample No: 289215
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.1
Lab File ID: 16542.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND		400
Acenaphthylene	ND		400
Acenaphthene	ND		400
Fluorene	ND		400
Phenanthrene	ND		400
Anthracene	ND		400
Fluoranthene	ND		400
Pyrene	ND		400
Benzo(a) anthracene	ND		40
Chrysene	ND		400
Benzo(b) fluoranthene	ND		40
Benzo(k) fluoranthene	ND		40
Benzo(a) pyrene	ND		40
Indeno(1,2,3-cd) pyrene	ND		40
Dibenz(a,h) anthracene	ND		40
Benzo(g,h,i) perylene	ND		400

Client ID: SB-9
Site: NJDOT Credit Union

Lab Sample No: 289216
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16543.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 17

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u>
		Limit Units: ug/kg
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	19 J	400
Anthracene	ND	400
Fluoranthene	29 J	400
Pyrene	30 J	400
Benzo(a)anthracene	25 J	40
Chrysene	18 J	400
Benzo(b)fluoranthene	21 J	40
Benzo(k)fluoranthene	12 J	40
Benzo(a)pyrene	17 J	40
Indeno(1,2,3-cd)pyrene	13 J	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	12 J	400

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample ID: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/20/01
Date Analyzed: 08/02/01
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 990 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr023516.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Aroclor-1016	ND	0.20
Aroclor-1221	ND	0.20
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.20
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.50
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample ID: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033563.d
Rear File ID: pr033563.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	
			<u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND		82	R
Aroclor-1221	ND		82	R
Aroclor-1232	ND		82	R
Aroclor-1242	ND		82	R
Aroclor-1248	ND		82	R
Aroclor-1254	ND		82	R
Aroclor-1260	ND		82	R
Aroclor-1262	ND		82	R
Aroclor-1268	ND		82	R

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample ID: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033564.d
Rear File ID: pr033564.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u>	
		Limit	Column
		Units: ug/kg	
Aroclor-1016	ND	80	R
Aroclor-1221	ND	80	R
Aroclor-1232	ND	80	R
Aroclor-1242	ND	80	R
Aroclor-1248	ND	80	R
Aroclor-1254	ND	80	R
Aroclor-1260	ND	80	R
Aroclor-1262	ND	80	R
Aroclor-1268	ND	80	R

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample ID: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033565.d
Rear File ID: pr033565.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND		81	R
Aroclor-1221	ND		81	R
Aroclor-1232	ND		81	R
Aroclor-1242	ND		81	R
Aroclor-1248	ND		81	R
Aroclor-1254	ND		81	R
Aroclor-1260	ND		81	R
Aroclor-1262	ND		81	R
Aroclor-1268	ND		81	R

Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample ID: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033566.d
Rear File ID: pr033566.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		80	R
Aroclor-1221	ND		80	R
Aroclor-1232	ND		80	R
Aroclor-1242	ND		80	R
Aroclor-1248	ND		80	R
Aroclor-1254	ND		80	R
Aroclor-1260	ND		80	R
Aroclor-1262	ND		80	R
Aroclor-1268	ND		80	R

Client ID: SB-7
Site: NJDOT Credit Union

Lab Sample ID: 289214
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033567.d
Rear File ID: pr033567.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	Column
Aroclor-1016		ND	76	R
Aroclor-1221		ND	76	R
Aroclor-1232		ND	76	R
Aroclor-1242		ND	76	R
Aroclor-1248	140	76	76	F
Aroclor-1254		ND	76	R
Aroclor-1260		ND	76	R
Aroclor-1262		ND	76	R
Aroclor-1268		ND	76	R

Client ID: SB-8
 Site: NJDOT Credit Union

Lab Sample ID: 289215
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01
 Date Extracted: 07/23/01
 Date Analyzed: 07/27/01
 GC Front Column: DB-5
 GC Rear Column: DB-608
 Instrument ID: PESTGC5.i
 Front File ID: pf033568.d
 Rear File ID: pr033568.d

Matrix: SOIL
 Level: LOW
 Sample Weight: 15 g
 Extract Final Volume: 10.0 ml
 Dilution Factor: 1.0
 % Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
 METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u>	
		Limit	Units: ug/kg Column
Aroclor-1016	ND	79	R
Aroclor-1221	ND	79	R
Aroclor-1232	ND	79	R
Aroclor-1242	ND	79	R
Aroclor-1248	ND	79	R
Aroclor-1254	ND	79	R
Aroclor-1260	ND	79	R
Aroclor-1262	ND	79	R
Aroclor-1268	ND	79	R

Client ID: SB-9
Site: NJDOT Credit Union

Lab Sample ID: 289216
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033569.d
Rear File ID: pr033569.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 17

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		80	R
Aroclor-1221	ND		80	R
Aroclor-1232	ND		80	R
Aroclor-1242	ND		80	R
Aroclor-1248	ND		80	R
Aroclor-1254	ND		80	R
Aroclor-1260	ND		80	R
Aroclor-1262	ND		80	R
Aroclor-1268	ND		80	R

Client ID: SB-1
 Site: NJDOT Credit Union

Lab Sample No: 289205
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 7.5

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	2.6	0.78	*	P
Barium	87.0	0.32	N*	P
Cadmium	ND	0.086		P
Chromium	16.5	0.24		P
Lead	8.4	0.45	*	P
Mercury	ND	0.018		CV
Selenium	ND	0.97		P
Silver	ND	0.24		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: FB-1
 Site: NJDOT Credit Union

Lab Sample No: 289207
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: WATER
 Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Arsenic	ND	3.4	P
Barium	ND	0.80	P
Cadmium	ND	0.40	P
Chromium	ND	2.8	P
Lead	ND	2.2	P
Mercury	ND	0.10	CV
Selenium	ND	3.9	P
Silver	ND	0.70	P

M Column - Method Code (See Section 2 of Report)

Client ID: GW-1
 Site: NJDOT Credit Union

Lab Sample No: 289208
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: WATER
 Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Arsenic	13.6	3.4	P
Barium	2230	0.80	P
Cadmium	ND	0.40	P
Chromium	54.0	2.8	P
Lead	19.9	2.2	P
Mercury	0.13	0.10	CV
Selenium	ND	3.9	P
Silver	ND	0.70	P

M Column - Method Code (See Section 2 of Report)

Client ID: SB-2
 Site: NJDOT Credit Union

Lab Sample No: 289209
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 8.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	5.6	0.79	*	P
Barium	55.0	0.33	N*	P
Cadmium	ND	0.088		P
Chromium	19.2	0.24		P
Lead	9.3	0.46	*	P
Mercury	0.02	0.016	B	CV
Selenium	ND	0.99		P
Silver	ND	0.24		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-3
 Site: NJDOT Credit Union

Lab Sample No: 289210
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 18.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	2.0	0.88	*	P
Barium	157	0.37	N*	P
Cadmium	ND	0.098		P
Chromium	22.1	0.27		P
Lead	5.6	0.51	*	P
Mercury	ND	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.27		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-4
 Site: NJDOT Credit Union

Lab Sample No: 289211
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 15.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	3.3	0.86	*	P
Barium	627	0.36	N*	P
Cadmium	ND	0.095		P
Chromium	8.3	0.65		P
Lead	ND	1.2	*	P
Mercury	ND	0.020		CV
Selenium	ND	2.7		P
Silver	ND	0.65		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-5
 Site: NJDOT Credit Union

Lab Sample No: 289212
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 17.6

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	4.2	0.87	*	P
Barium	107	0.36	N*	P
Cadmium	ND	0.097		P
Chromium	26.8	0.27		P
Lead	8.6	0.51	*	P
Mercury	0.04	0.020	B	CV
Selenium	ND	1.1		P
Silver	ND	0.27		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample No: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	5.3	0.86	*	P
Barium	100	0.36	N*	P
Cadmium	ND	0.096		P
Chromium	15.0	0.26		P
Lead	18.9	0.50	*	P
Mercury	0.06	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-7
 Site: NJDOT Credit Union

Lab Sample No: 289214
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 12.0

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	5.1	0.74	*	P
Barium	82.3	0.31	N*	P
Cadmium	ND	0.083		P
Chromium	13.3	0.23		P
Lead	17.4	0.43	*	P
Mercury	0.07	0.019		CV
Selenium	ND	0.93		P
Silver	ND	0.23		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-8
 Site: NJDOT Credit Union

Lab Sample No: 289215
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 15.7

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	8.2	0.85	*	P
Barium	61.9	0.36	N*	P
Cadmium	ND	0.095		P
Chromium	22.3	0.26		P
Lead	13.0	0.50	*	P
Mercury	0.05	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)

Client ID: SB-9
 Site: NJDOT Credit Union

Lab Sample No: 289216
 Lab Job No: M838

Date Sampled: 07/18/01
 Date Received: 07/19/01

Matrix: SOLID
 Level: LOW
 % Moisture: 16.8

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	7.0	0.87	*	P
Barium	60.1	0.36	N*	P
Cadmium	ND	0.096		P
Chromium	19.7	0.26		P
Lead	14.7	0.50	*	P
Mercury	0.05	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
 M Column - Method Code (See Section 2 of Report)



General Information

Chain of Custody

SDG: ☐ Incomplete ☐ Complete

Sample Chain of Custody

W.O. Number: FM (01.00.01)		Project Name: NTDOT CU / 6m Plant		M838		
Sampler: Rob Dixon						
ERM T.R. Number	Date	Time	COMP	GRAB	Sample Location	
	7/10/01			X	SB-1	
	7/10/01	7/17/01		X	TB-1	
	7/10/01			X	FB-1	
	7/10/01			X	GW-1	
	7/10/01			X	SB-2	
	7/10/01			X	SB-3	
	7/10/01			X	SB-4	
	7/10/01			X	SB-5	
	7/10/01			X	SB-6	
	7/10/01			X	SB-7	
	7/10/01			X	SB-8	
	7/10/01			X	SB-9	
	7/17				TB-2	
Number of Containers VOC w/ HL VOC w/ Petroleum PCB Bulk Part # AP Analysis RCR # VOC (Soil)						
					std. turnaround 289205	
					289206	
					289207	
					289208	
					289209	
					289210	
					289211	
					289212	
					289213	
					289214	
					289215	
					289216	
					289217	
Sample Relinquished Date Time Sample Received by: Date Time Reason for Transfer						
	7/17/01	7:00 AM		7/19/01	10/10	STL Edison
	7/17/01	12/10				Wayne Clark
						STL Edison
						Michelle Maillon

Copies: White and Yellow copies accompany sample shipments to laboratory. Yellow copy retained by laboratory. White copy to be returned to ERM for files. Pink copy retained by sampler. Gold copy extra as needed (warehouse).

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

VOAMS

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289206	7/17/2001	7/19/2001			7/21/01	AT	2902

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

VOAMS

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289205	7/18/2001	7/19/2001			7/21/01	AT	2902
289209	7/18/2001	7/19/2001			/	/	/
289210	7/18/2001	7/19/2001			/	/	/
289211	7/18/2001	7/19/2001			/	/	/
289212	7/18/2001	7/19/2001			/	/	/

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289217	7/17/2001	7/19/2001			7/24/01	LD	5665

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289207	7/18/2001	7/19/2001			7/24/01	LD	5665
289208	7/18/2001	7/19/2001			(	s	/

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

BNAMS

SOLID - 8270C

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289210	7/18/2001	7/19/2001	7-21-01	JH	7-24-01	MA	7652
289211	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289212	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289213	7/18/2001	7/19/2001	↓	↓	7-23-01	↓	↓
289214	7/18/2001	7/19/2001	↓	↓	7-24-01	↓	↓
289215	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289216	7/18/2001	7/19/2001	↓	↓	↓	↓	↓

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

BNAMS

WATER - 625

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
289207	7/18/2001	7/19/2001	7-20-01	JLR	7-26-01	AR	6501

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

PESTGC

608

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
<u>WATER</u>							
289207	7/18/2001	7/19/2001	07-20-01	DS	8-2-01	SP	77B

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

PESTGC

8082

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
<u>SOLID</u>							
289210	7/18/2001	7/19/2001	7-23-01	VP	7-27-01	SK	7771
289211	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289212	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289213	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289214	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289215	7/18/2001	7/19/2001	↓	↓	↓	↓	↓
289216	7/18/2001	7/19/2001	↓	↓	↓	↓	↓

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838 Site: NJDOT Credit Union
Client: ERM Date Sampled: 7/18/2001
Sample No.: 289205 Date Received: 7/19/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BM	7/25/01	BM	11493
ARSENIC	7/24/01	CARL	7/24/01	CH	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

Date Sampled: 7/18/2001

Sample No.: 289207

Date Received: 7/19/2001

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/20/01	mp SS	7/20/01	mp DE	11484
ARSENIC					
LEAD					
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838
Client: ERM
Sample No.: 289208

Site: NJDOT Credit Union
Date Sampled: 7/18/2001
Date Received: 7/19/2001
Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/20/01	mp	7/20/01	mp	11484
ARSENIC		SS		De	
LEAD					
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

Date Sampled: 7/18/2001

Sample No.: 289209

Date Received: 7/19/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BSTZ	7/25/01	BSTZ	11493
ARSENIC	7/24/01	CAL	7/24/01	CA	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838 Site: NJDOT Credit Union
Client: ERM Date Sampled: 7/18/2001
Sample No.: 289210 Date Received: 7/19/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BORZ	7/25/01	BORZ	11493
ARSENIC	7/24/01	BARZ	7/24/01	BJI	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: M838 Site: NJDOT Credit Union
Client: ERM Date Sampled: 7/18/2001
Sample No.: 289211 Date Received: 7/19/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BOR	7/25/01	BOR	11493
ARSENIC	7/24/01	ATR	7/24/01	CH	
SELENIUM			7/25/01		
BARIUM			7/24/01		
CADMIUM			7/24/01		
CHROMIUM			7/25/01		
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

Date Sampled: 7/18/2001

Sample No.: 289212

Date Received: 7/19/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BAL	7/25/01	BAL	11493
ARSENIC	7/24/01	CAZ	7/24/01	CA	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD AND LABORATORY CHRONICLE STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838	Site: NJDOT Credit Union
Client: ERM	Date Sampled: 7/18/2001
Sample No.: 289213	Date Received: 7/19/2001
	Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BML	7/25/01	BML	11493
ARSENIC	7/24/01	OTR	7/24/01	TH	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838 Site: NJDOT Credit Union
Client: ERM Date Sampled: 7/18/2001
Sample No.: 289214 Date Received: 7/19/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BTZ	7/25/01	BTZ	11493
ARSENIC	7/24/01	CRZ	7/24/01	CRZ	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job-No: M838 Site: NJDOT Credit Union
Client: ERM Date Sampled: 7/18/2001
Sample No.: 289215 Date Received: 7/19/2001
Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BML	7/25/01	BML	tu92
ARSENIC	7/24/01	CAZ	7/24/01		
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: M838

Site: NJDOT Credit Union

Client: ERM

Date Sampled: 7/18/2001

Sample No.: 289216

Date Received: 7/19/2001

Matrix: SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
MERCURY	7/25/01	BOR	7/25/01	BOR	11493
ARSENIC	7/24/01	CARL	7/24/01	EH	
SELENIUM					
BARIUM					
CADMIUM					
CHROMIUM					
LEAD					
SILVER					

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability - Method 1020A

Corrosivity - Water pH Method 9040B
Soil pH Method 9045C

Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release

Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N - The spiked sample recovery is not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- * - Duplicate Analysis is not within control limits.
- W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).
- A - Flame Atomic Absorption Spectroscopy (FAA).
- F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).
- CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: M838

Volatile Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Base/Neutral and/or Acid Extractable Organics Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

PCBs and/or Organochlorine Pesticides Analysis:

All data conforms with method requirements _____; or
Analysis was not requested _____; or
Non-conformance for the specific samples listed is as follows:

(Method 608: QA Batch 7713) recovery of Aroclors
1016/1260 outside of QC limits (low) in the
Blank Spike. The MS/MSD meets QC recovery limits.

See continuation page if checked ()

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: M838

Metals Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Total Petroleum Hydrocarbons Analysis:

All data conforms with method requirements ; or
Analysis was not requested ✓; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

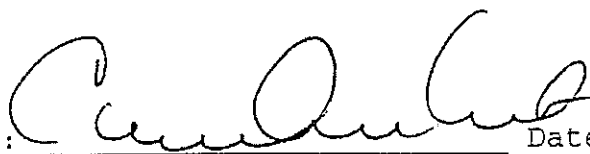
General Chemistry/Disposal Analysis:

All data conforms with method requirements ✓; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Signature of

Laboratory Manager:



Date:

9-6-01

GC/MS Forms and Data (Volatiles)
Results Summary and Chromatograms

Client ID: SB-1
Site: NJDOT Credit Union

Lab Sample No: 289205
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21318.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	620
Trichlorofluoromethane	ND	380
1,1-Dichloroethene	ND	620
1,1-Dichloroethane	ND	250
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	620
1,1,1-Trichloroethane	ND	250
Carbon Tetrachloride	ND	620
Bromodichloromethane	ND	250
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	120
Trichloroethene	ND	620
Dibromochloromethane	ND	120
1,1,2-Trichloroethane	ND	620
Benzene	ND	380
trans-1,3-Dichloropropene	ND	120
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	620
Tetrachloroethene	ND	500
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	120
Chlorobenzene	ND	620
Ethylbenzene	ND	620
Xylene (Total)	ND	500
	ND	620

Client ID: SB-1
Site: NJDOT Credit Union

Lab Sample No: 289205
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21318.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.8 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 7.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21318.d
 Lab Smp Id: 289205 Client Smp ID: SB-1
 Inj Date : 21-JUL-2001 10:13
 Operator : VOAMS 4 Inst ID: VOAMS4.i
 Smp Info : 289205;50;;10.8;25
 Misc Info : M838;2902;;AT;
 Comment :
 Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/8260H_01.m
 Meth Date : 25-Jul-2001 13:41 pritch Quant Type: ISTD
 Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
 Als bottle: 3
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 3.50

Compound Sublist: PPVOA.sub

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

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.80000	Weight of sample extracted (g)
M	7.50000	% Moisture (not decanted)

Cpnd Variable

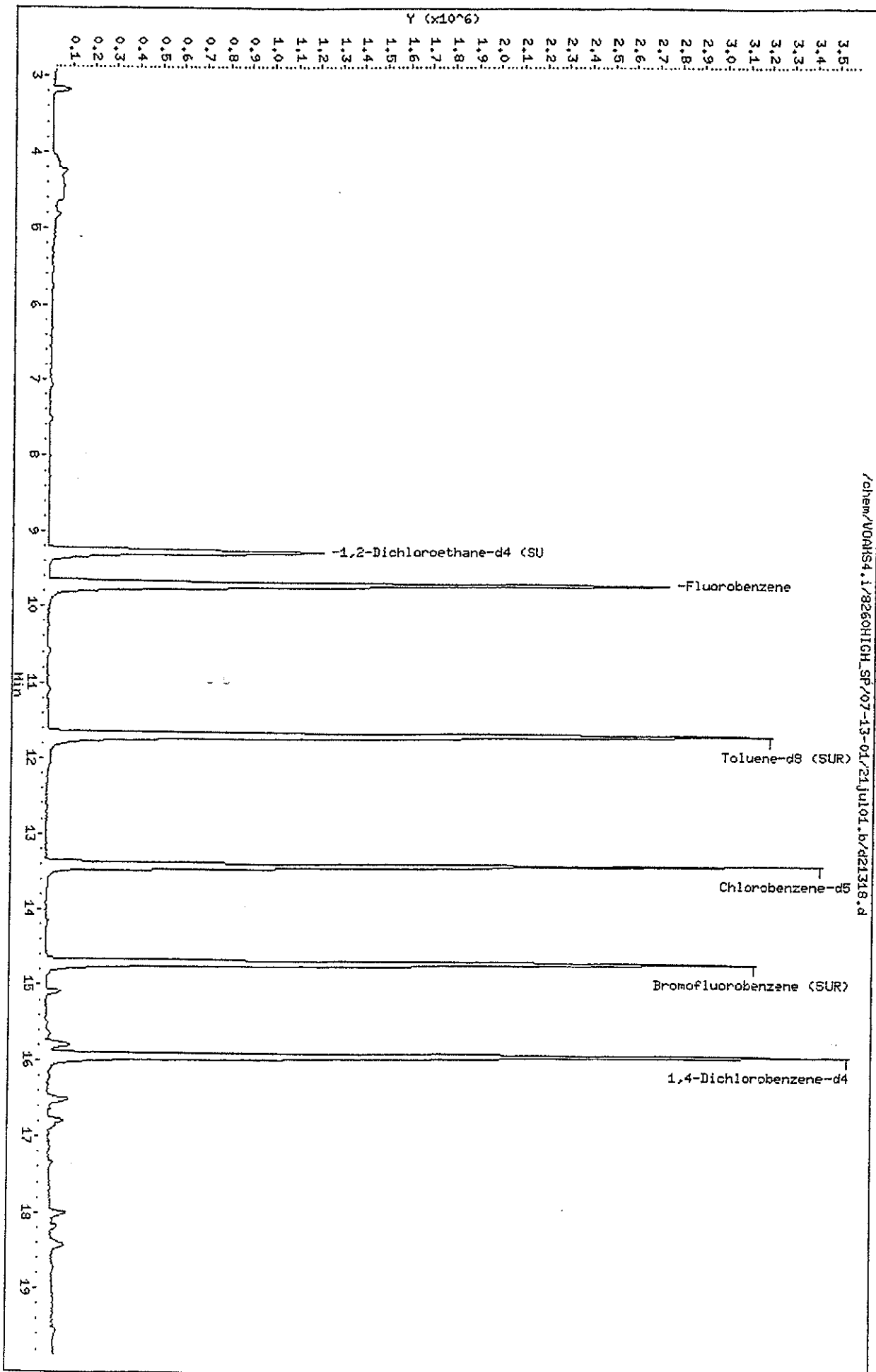
Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	(ug/L)	(ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.271	9.272	(0.954)	1680075	44.8480	5600		
* 19 Fluorobenzene	96	9.716	9.702	(1.000)	4915058	50.0000			
\$ 37 Toluene-d8 (SUR)	98	11.689	11.690	(0.872)	3941259	47.1619	5900		
* 32 Chlorobenzene-d5	117	13.410	13.411	(1.000)	3433563	50.0000			
\$ 41 Bromofluorobenzene (SUR)	174	14.701	14.701	(0.923)	1477961	44.5701	5600		
* 91 1,4-Dichlorobenzene-d4	152	15.932	15.933	(1.000)	1736920	50.0000			

Data File: /chem/VOAMS4.i/8260HIGH.SP/07-13-01/21Jul01.b/d21318.d
Date : 21-JUL-2001 10:13
Client ID: SB-1
Sample Info: 289205;50;10.8;25

Column phase: DB624

Instrument: VOAMS4.1
Operator: VOAMS 4
Column diameter: 0.53



Client ID: TB-1
Site: NJDOT Credit Union

Lab Sample No: 289206
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21319.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg	Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620

Client ID: TB-1
Site: NJDOT Credit Union

Lab Sample No: 289206
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21319.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21319.d
Lab Smp Id: 289206 Client Smp ID: TB-1
Inj Date : 21-JUL-2001 11:01
Operator : VOAMS 4 Inst ID: VOAMS4.i
Smp Info : 289206;50;;10.0;25
Misc Info : M838;2902;;AT;
Comment :
Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/8260H_01.m
Meth Date : 25-Jul-2001 13:41 pritch Quant Type: ISTD
Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
Als bottle: 4
Dil Factor: 50.00000
Integrator: HP RTE
Target Version: 3.50

Compound Sublist: PPVOA.sub

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt}/\text{Ws}) / ((100-\text{M})/100) * \text{CpndVariable}$

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.00000	Weight of sample extracted (g)
M	-0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
*****	****	*****	*****	*****	*****	*****	*****	
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.242	9.272	(0.956)	1674918	46.5835	5800	
* 19 Fluorobenzene	96	9.672	9.702	(1.000)	4717416	50.0000		
\$ 37 Toluene-d8 (SUR)	98	11.660	11.690	(0.871)	3650493	50.0337	6200	
* 32 Chlorobenzene-d5	117	13.381	13.411	(1.000)	2997711	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.686	14.701	(0.923)	1335807	45.8233	5700	
* 91 1,4-Dichlorobenzene-d4	152	15.917	15.933	(1.000)	1526924	50.0000		

Data File: /chem/VOAHS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21319.d

Date: 21-JUL-2001 11:01

Client ID: TB-1

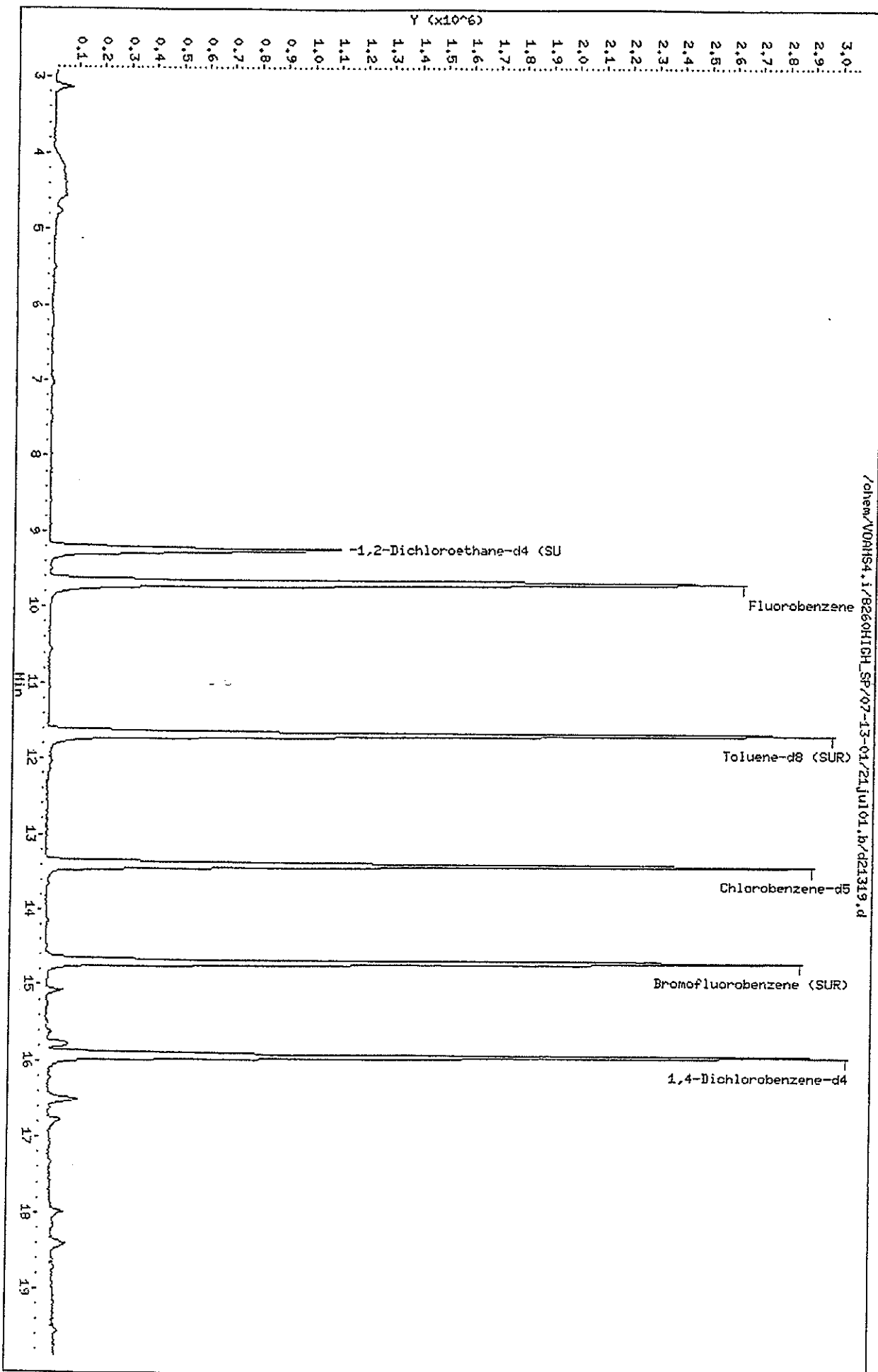
Sample Info: 289206;50;110.0;25

Column phase: DB624

Instrument: VOAHS4.1

Operator: VOAHS 4

Column diameter: 0.53



Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26792.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26792.d
Report Date: 25-Jul-2001 09:11

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26792.d
Lab Smp Id: 289207 Client Smp ID: FB-1
Inj Date : 24-JUL-2001 19:19
Operator : VOAMS 6 Inst ID: VOAMS6.i
Smp Info : 289207
Misc Info : M838;5665;;LD
Comment :
Method : /chem/VOAMS6.i/624/07-21-01/24jul01.b/624_01.m
Meth Date : 25-Jul-2001 08:29 davidl Quant Type: ISTD
Cal Date : 21-JUL-2001 16:08 Cal File: f26681.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

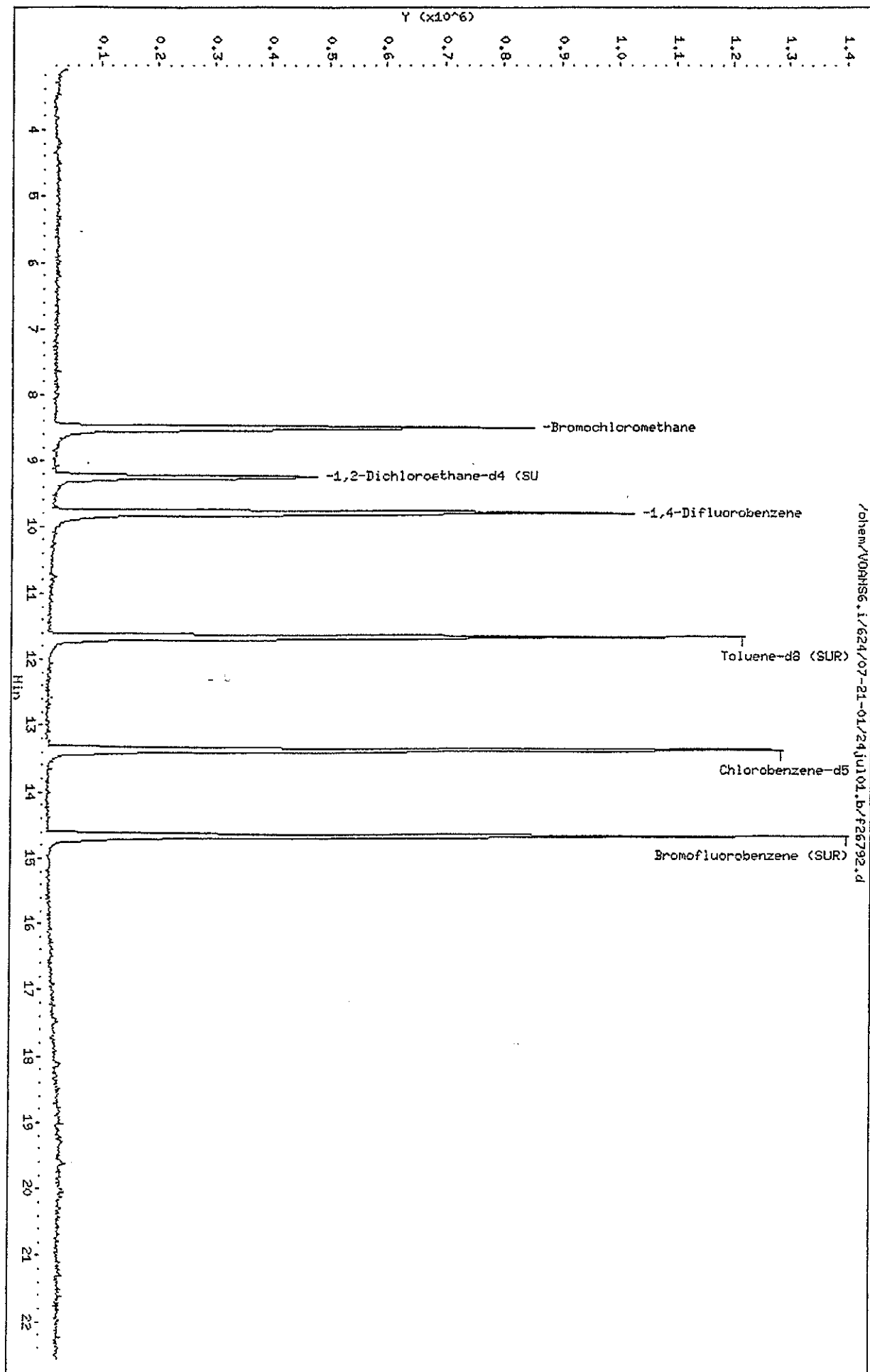
Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable - Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane	128	8.489	8.518	(1.000)	561883	30.0000		
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.243	9.272	(0.944)	132951	30.3751	30	
* 19 1,4-Difluorobenzene	114	9.790	9.819	(1.000)	1999349	30.0000		
\$ 37 Toluene-d8 (SUR)	98	11.653	11.668	(0.872)	1635358	29.6340	30	
* 32 Chlorobenzene-d5	117	13.368	13.383	(1.000)	1665235	30.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.655	14.669	(1.096)	658535	27.3615	27	

Data File: /chem/VOAHS6.i/624/07-21-01/24jul01.b/f26792.d
 Date: 24-JUL-2001 19:19
 Client ID: FB-1
 Sample Info: 289207
 Purge Volume: 5.0
 Column phase: DB624

Instrument: VOAHS6.1
 Operator: VOAHS 6
 Column diameter: 0.53



Client ID: GW-1
Site: NJDOT Credit Union

Lab Sample No: 289208
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	2.7	0.2
Chloroform	0.3	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	23	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: GW-1
Site: NJDOT Credit Union

Lab Sample No: 289208
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26793.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26793.d
 Report Date: 25-Jul-2001 09:11

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26793.d
 Lab Smp Id: 289208 Client Smp ID: GW-1
 Inj Date : 24-JUL-2001 19:51
 Operator : VOAMS 6 Inst ID: VOAMS6.i
 Smp Info : 289208
 Misc Info : M838;5665;;LD
 Comment :
 Method : /chem/VOAMS6.i/624/07-21-01/24jul01.b/624 01.m
 Meth Date : 25-Jul-2001 08:29 davidl Quant Type: ISTD
 Cal Date : 21-JUL-2001 16:08 Cal File: f26681.d
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: PPVOAv.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

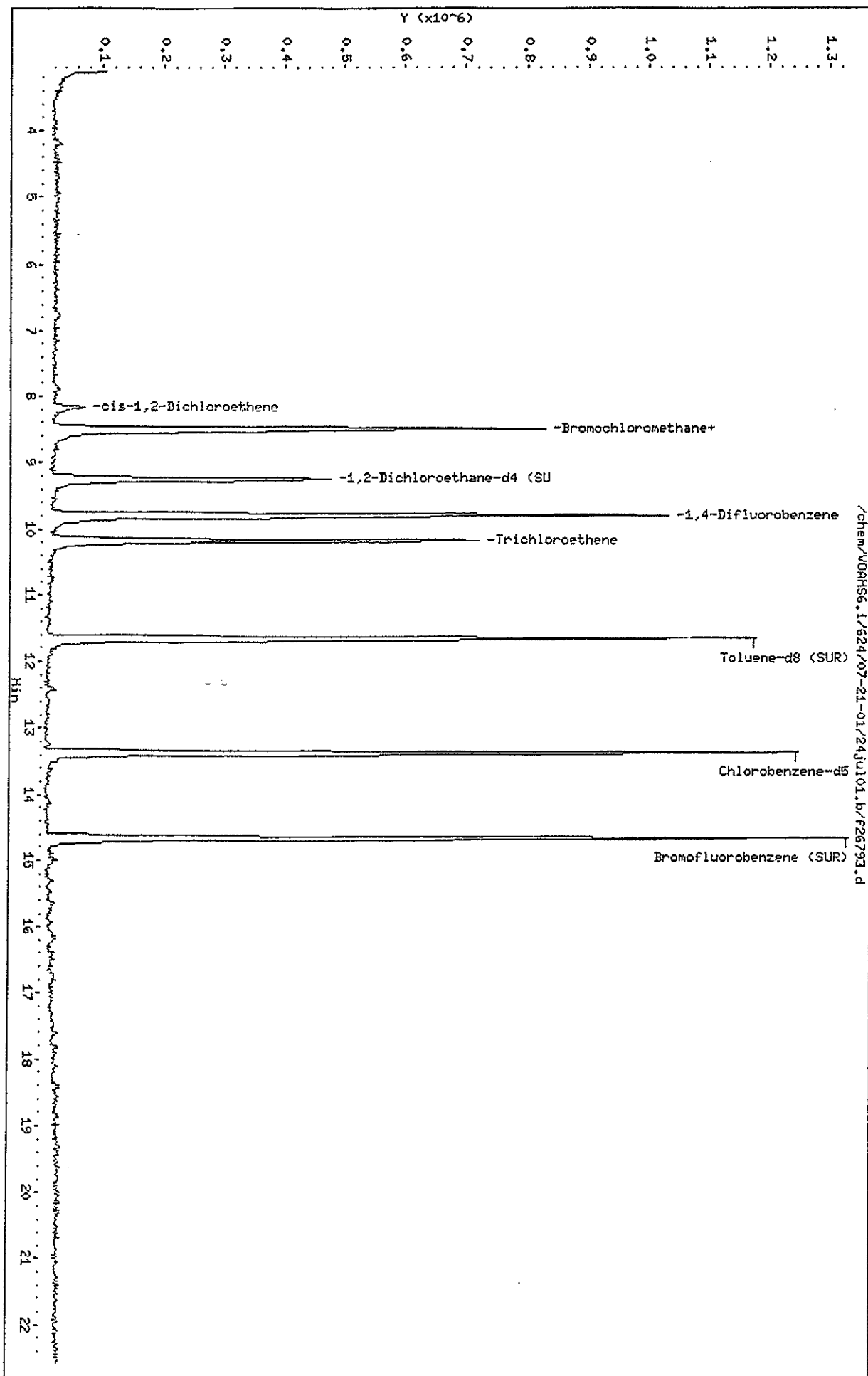
Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

Cpnd Variable - Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/L)
13 cis-1,2-Dichloroethene	96	8.164	8.193	(0.962)	54796	2.70975	2.7
* 2 Bromochloromethane	128	8.489	8.518	(1.000)	541918	30.0000	
15 Chloroform	83	8.578	8.592	(1.010)	12932	0.33632	0.34
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.243	9.272	(0.944)	123893	29.8011	30
* 19 1,4-Difluorobenzene	114	9.791	9.819	(1.000)	1899006	30.0000	
25 Trichloroethene	95	10.175	10.189	(1.039)	510028	22.6606	23
\$ 37 Toluene-d8 (SUR)	98	11.654	11.668	(0.873)	1605243	30.6499	31
* 32 Chlorobenzene-d5	117	13.354	13.383	(1.000)	1580391	30.0000	
\$ 41 Bromofluorobenzene (SUR)	174	14.655	14.669	(1.097)	619166	27.1069	27

Data File: /chem/VOAHS6.1/624/07-21-01/24jul01.b/f26793.d
 Date: 24-JUL-2001 19:51
 Client ID: GN-1
 Sample Info: 289208
 Purge Volume: 5.0
 Column Phase: DB624

Instrument: VOAHS6.1
 Operator: VOAHS 6
 Column diameter: 0.53



Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26793.d

Date : 24-JUL-2001 19:51

Client ID: GW-1

Instrument: VOAMS6.i

Sample Info: 289208

Purge Volume: 5.0

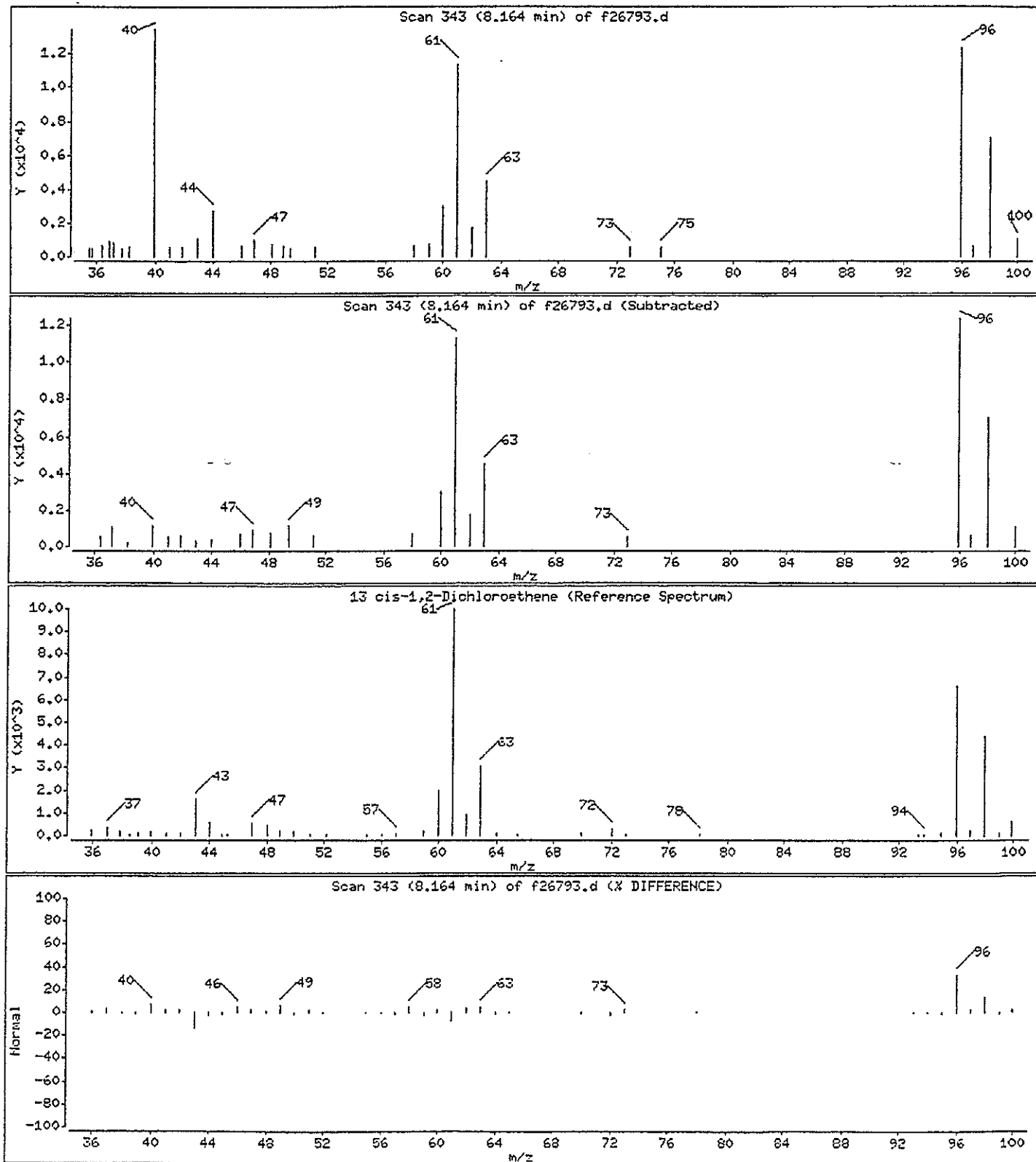
Operator: VOAMS 6

Column phase: DB624

Column diameter: 0.53

13 cis-1,2-Dichloroethene

Concentration: 2.7 ug/L



Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26793.d

Date : 24-JUL-2001 19:51

Client ID: GW-1

Instrument: VOAMS6.i

Sample Info: 289208

Purge Volume: 5.0

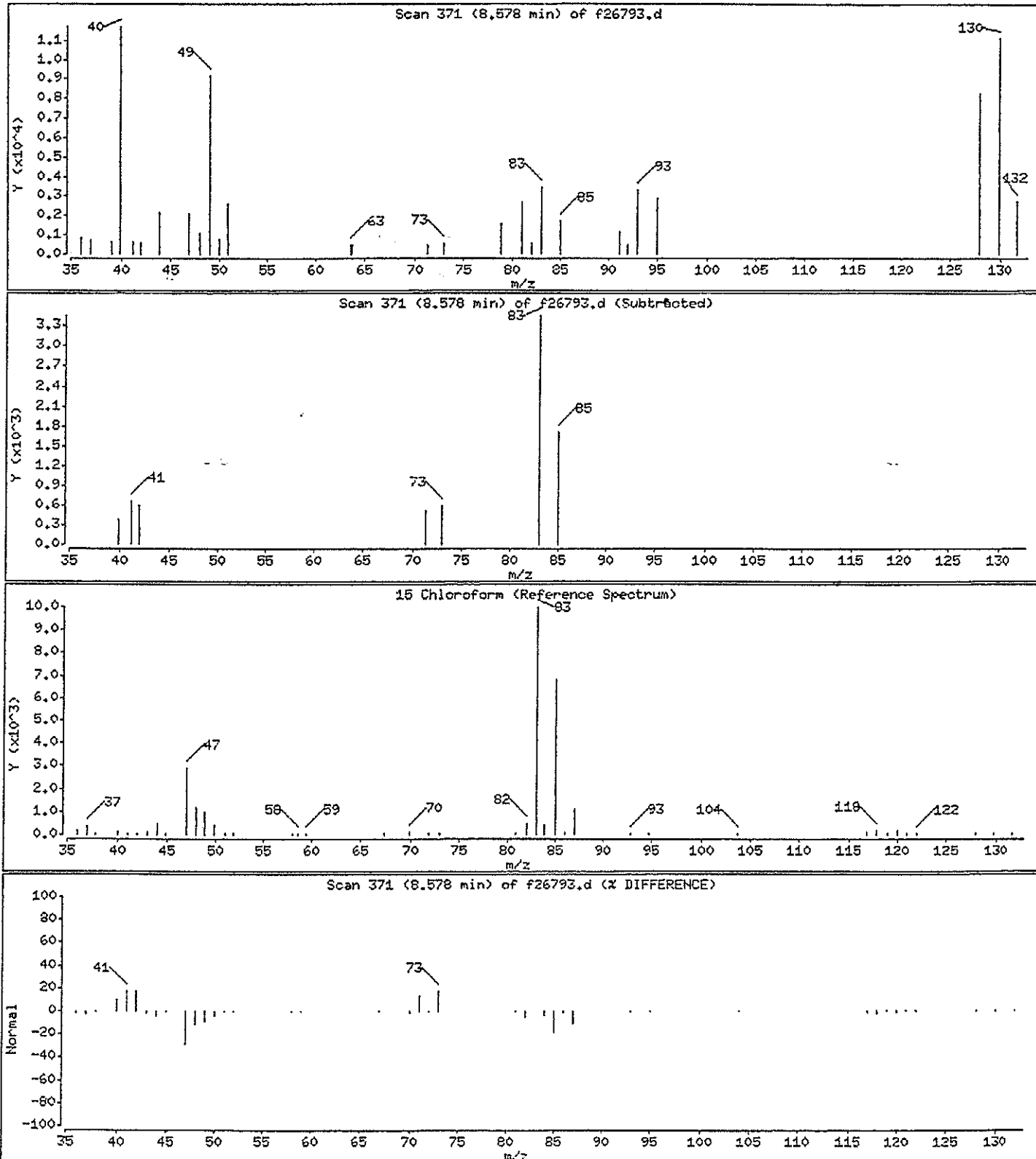
Operator: VOAMS 6

Column phase: DB624

Column diameter: 0.53

15 Chloroform

Concentration: 0.34 ug/L



Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26793.d

Date : 24-JUL-2001 19:51

Client ID: GW-1

Instrument: VOAMS6.i

Sample Info: 289208

Purge Volume: 5.0

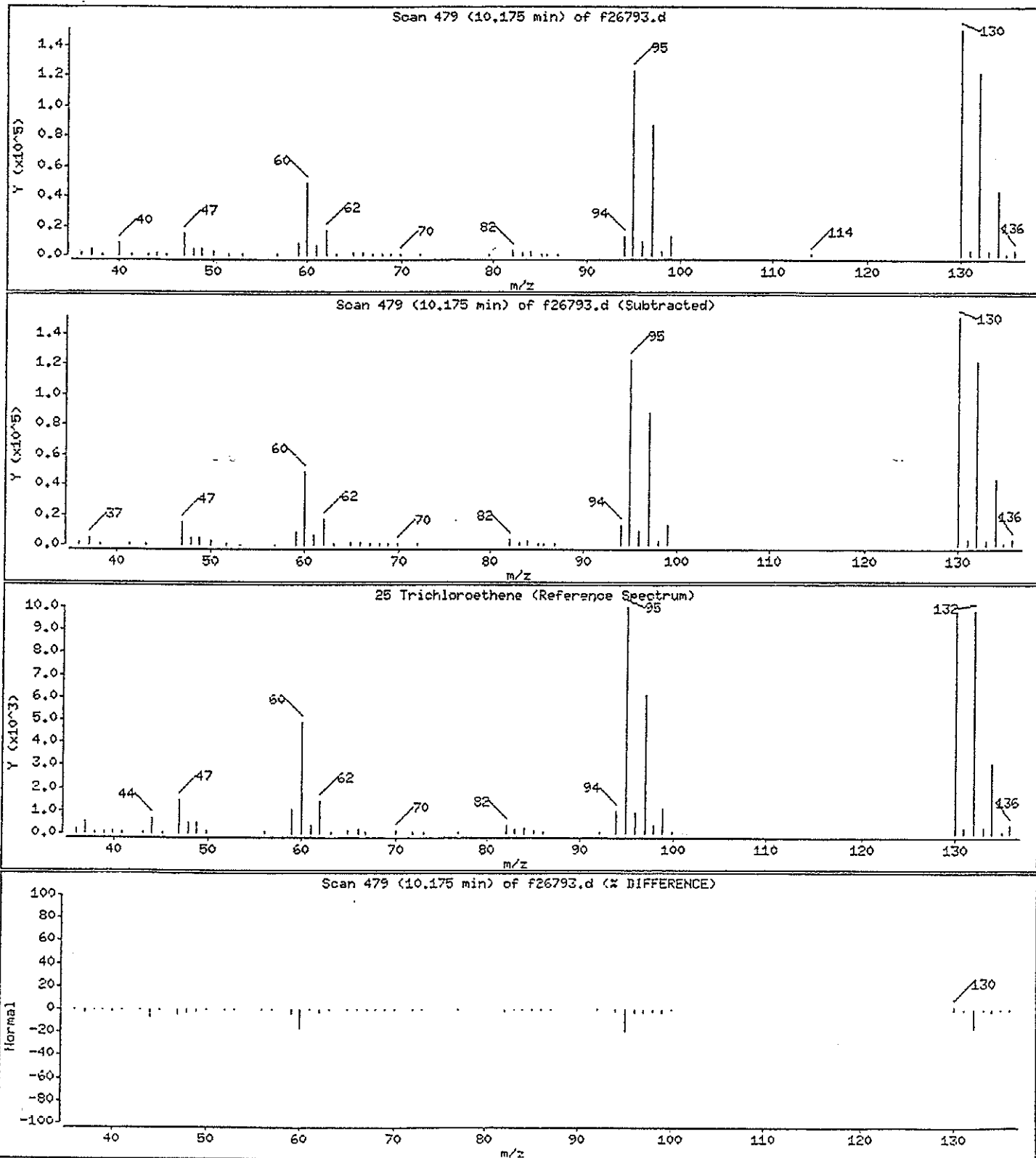
Operator: VOAMS 6

Column phase: DB624

Column diameter: 0.53

25 Trichloroethene

Concentration: 23 ug/L



Client ID: SB-2
Site: NJDOT Credit Union

Lab Sample No: 289209
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21317.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 9

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	690
Bromomethane	ND	690
Vinyl Chloride	ND	690
Chloroethane	ND	690
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	690
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	690
trans-1,2-Dichloroethene	ND	690
cis-1,2-Dichloroethene	ND	690
Chloroform	ND	690
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	690
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	690
Trichloroethene	ND	140
Dibromochloromethane	ND	690
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	690
2-Chloroethyl Vinyl Ether	ND	690
Bromoform	ND	550
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	690
Chlorobenzene	ND	690
Ethylbenzene	ND	550
Xylene (Total)	ND	690

Client ID: SB-2
Site: NJDOT Credit Union

Lab Sample No: 289209
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21317.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21317.d
Report Date: 25-Jul-2001 13:47

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21317.d
Lab Smp Id: 289209 Client Smp ID: SB-2
Inj Date : 21-JUL-2001 09:43
Operator : VOAMS 4 Inst ID: VOAMS4.i
Smp Info : 289209;50;;10.0;25
Misc Info : M838;2902;;AT;
Comment :
Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/8260H_01.m
Meth Date : 25-Jul-2001 13:41 pritch Quant Type: ISTD
Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
Als bottle: 2
Dil Factor: 50.00000
Integrator: HP RTE
Target Version: 3.50

Compound Sublist: PPVOA.sub

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

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.00000	Weight of sample extracted (g)
M	-8.90000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.256	9.272	(0.956)	1725170	44.3096	6100
* 19 Fluorobenzene	96	9.686	9.702	(1.000)	5108307	50.0000	
\$ 37 Toluene-d8 (SUR)	98	11.674	11.690	(0.872)	4036373	48.5117	6600
* 32 Chlorobenzene-d5	117	13.395	13.411	(1.000)	3418582	50.0000	
\$ 41 Bromofluorobenzene (SUR)	174	14.685	14.701	(0.923)	1511173	45.9467	6300
* 91 1,4-Dichlorobenzene-d4	152	15.916	15.933	(1.000)	1722739	50.0000	

Data File: /chem/VOHHS4.1/8260H1GH_SP/07-13-01/24jul01.b/d21317.d

Date: 21-JUL-2001 09:43

Client ID: SB-2

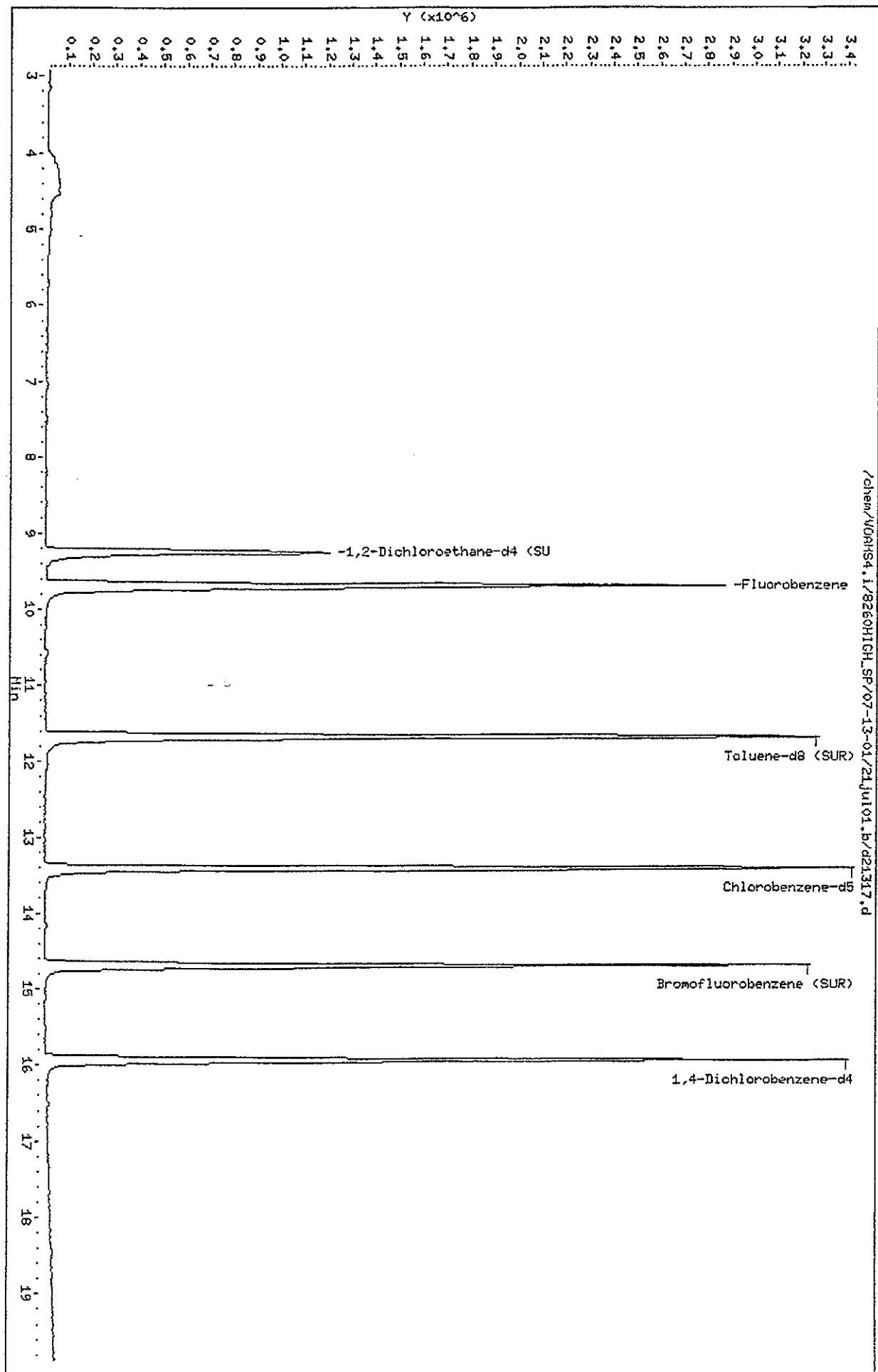
Sample Info: 289209;50;110.0;25

Column phase: DB624

Instrument: VOAHS4.1

Operator: VOAHS 4

Column diameter: 0.53



Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21320.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	730
Bromomethane	ND	730
Vinyl Chloride	ND	730
Chloroethane	ND	730
Methylene Chloride	ND	440
Trichlorofluoromethane	ND	730
1,1-Dichloroethene	ND	290
1,1-Dichloroethane	ND	730
trans-1,2-Dichloroethene	ND	730
cis-1,2-Dichloroethene	ND	730
Chloroform	ND	730
1,2-Dichloroethane	ND	290
1,1,1-Trichloroethane	ND	730
Carbon Tetrachloride	ND	290
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	730
Trichloroethene	ND	140
Dibromochloromethane	ND	730
1,1,2-Trichloroethane	ND	440
Benzene	ND	140
trans-1,3-Dichloropropene	ND	730
2-Chloroethyl Vinyl Ether	ND	730
Bromoform	ND	580
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	730
Chlorobenzene	ND	730
Ethylbenzene	ND	580
Xylene (Total)	ND	730

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21320.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAHS4.i/826CHIGH.SP/07-13-01/21jul01.b/d21320.d
Date: 21-JUL-2001 14:31

Client ID: SB-3

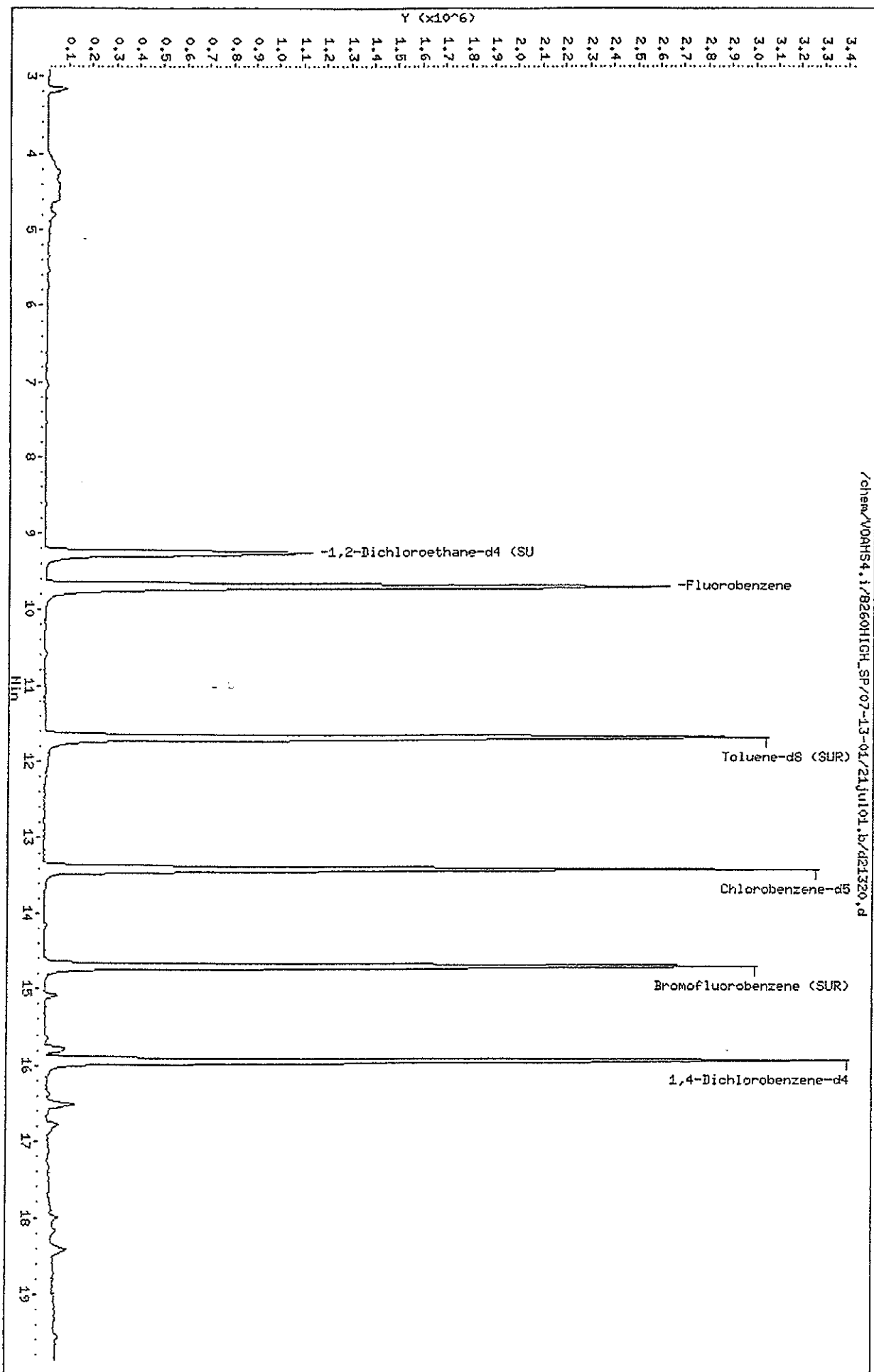
Sample Info: 289210f50j10.5:25

Column phase: DB624

Instrument: VOAHS4.1

Operator: VOAHS 4

Column diameter: 0.53



Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21321.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 16

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	780
Bromomethane	ND	780
Vinyl Chloride	ND	780
Chloroethane	ND	780
Methylene Chloride	ND	470
Trichlorofluoromethane	ND	780
1,1-Dichloroethene	ND	310
1,1-Dichloroethane	ND	780
trans-1,2-Dichloroethene	ND	780
cis-1,2-Dichloroethene	ND	780
Chloroform	ND	780
1,2-Dichloroethane	ND	310
1,1,1-Trichloroethane	ND	780
Carbon Tetrachloride	ND	310
Bromodichloromethane	ND	160
1,2-Dichloropropane	ND	160
cis-1,3-Dichloropropene	ND	780
Trichloroethene	ND	160
Dibromochloromethane	ND	780
1,1,2-Trichloroethane	ND	470
Benzene	ND	160
trans-1,3-Dichloropropene	ND	780
2-Chloroethyl Vinyl Ether	ND	780
Bromoform	ND	620
Tetrachloroethene	ND	160
1,1,2,2-Tetrachloroethane	ND	160
Toluene	ND	780
Chlorobenzene	ND	780
Ethylbenzene	ND	620
Xylene (Total)	ND	780

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21321.d

Matrix: SOIL
Level: HIGH
Sample Weight: 9.5 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 15.9

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21321.d
 Lab Smp Id: 289211 Client Smp ID: SB-4
 Inj Date : 21-JUL-2001 12:02
 Operator : VOAMS 4 Inst ID: VOAMS4.i
 Smp Info : 289211;50;;9.5;25
 Misc Info : M838;2902;;AT;
 Comment :
 Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/8260H_01.m
 Meth Date : 25-Jul-2001 13:41 pritch Quant Type: ISTD
 Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
 Als bottle: 6
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 3.50

Compound Sublist: PPVOA.sub

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

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	9.50000	Weight of sample extracted (g)
M	-15.90000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
*****	***		**	*****	*****	*****	*****	*****
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.256	9.272	(0.956)	1610510	45.9924	7200	
* 19 Fluorobenzene	96	9.686	9.702	(1.000)	4594302	50.0000		
\$ 37 Toluene-d8 (SUR)	98	11.674	11.690	(0.872)	3529478	44.7251	7000	
* 32 Chlorobenzene-d5	117	13.394	13.411	(1.000)	3242354	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.685	14.701	(0.923)	1362015	43.4744	6800	
* 91 1,4-Dichlorobenzene-d4	152	15.916	15.933	(1.000)	1641000	50.0000		

Data File: /chem/VOHIS4.1/8260HIGH_SP/07-13-01/21Jul01.b/d21321.d

Date: 21-JUL-2001 12:02

Client ID: SB-4

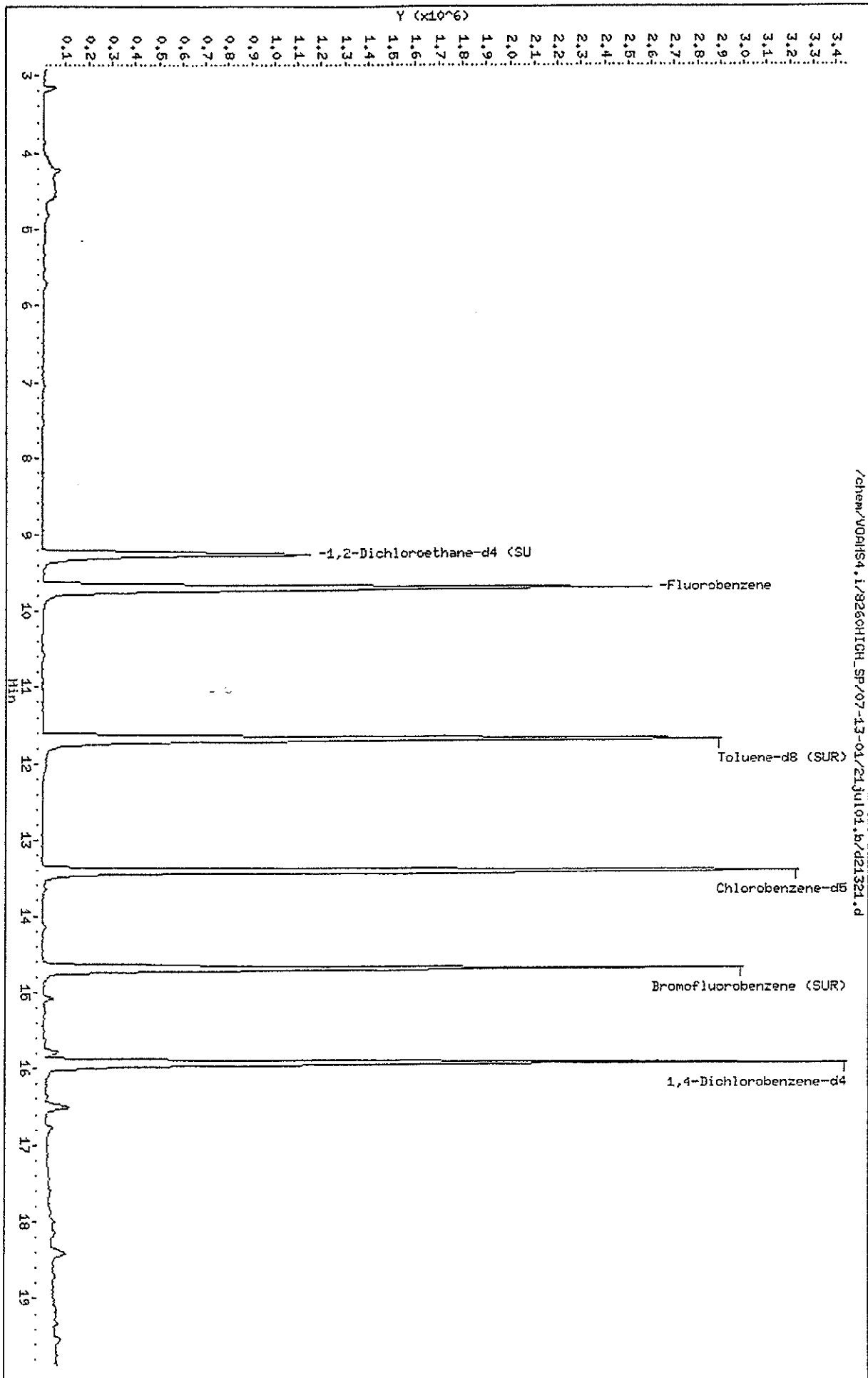
Sample Info: 289211;50;79.5;25

Column phase: DB624

Instrument: VOAHS4.1

Operator: VOAHS 4

Column diameter: 0.53



Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21405.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	750
Bromomethane	ND	750
Vinyl Chloride	ND	750
Chloroethane	ND	750
Methylene Chloride	ND	450
Trichlorofluoromethane	ND	750
1,1-Dichloroethene	ND	300
1,1-Dichloroethane	ND	750
trans-1,2-Dichloroethene	ND	750
cis-1,2-Dichloroethene	ND	750
Chloroform	ND	750
1,2-Dichloroethane	ND	300
1,1,1-Trichloroethane	ND	750
Carbon Tetrachloride	ND	300
Bromodichloromethane	ND	150
1,2-Dichloropropane	ND	150
cis-1,3-Dichloropropene	ND	750
Trichloroethene	ND	150
Dibromochloromethane	ND	750
1,1,2-Trichloroethane	ND	450
Benzene	ND	150
trans-1,3-Dichloropropene	ND	750
2-Chloroethyl Vinyl Ether	ND	750
Bromoform	ND	600
Tetrachloroethene	ND	150
1,1,2,2-Tetrachloroethane	ND	150
Toluene	ND	750
Chlorobenzene	ND	750
Ethylbenzene	ND	600
Xylene (Total)	ND	750

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21405.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 17.6

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/d21405.d
 Report Date: 31-Jul-2001 11:12

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/d21405.d
 Lab Smp Id: 289212 Client Smp ID: SB-5
 Inj Date : 24-JUL-2001 17:48
 Operator : VOAMS 4 Inst ID: VOAMS4.i
 Smp Info : 289212;50;;10.1;25
 Misc Info : M838;2902;;AT;
 Comment :
 Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/8260H_01.m
 Meth Date : 24-Jul-2001 11:28 ken Quant Type: ISTD
 Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
 Als bottle: 19
 Dil Factor: 50.00000
 Integrator: HP RTE
 Target Version: 3.50

Compound Sublist: PPVOA.sub

Concentration Formula: $\text{Amt} * \text{DF} * (\text{Vt}/\text{Ws}) / ((100-\text{M})/100) * \text{CpndVariable}$

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	25.00000	Volume of final extract (mL)
Ws	10.10000	Weight of sample extracted (g)
M	17.60000	% Moisture (not decanted)

Cpnd Variable

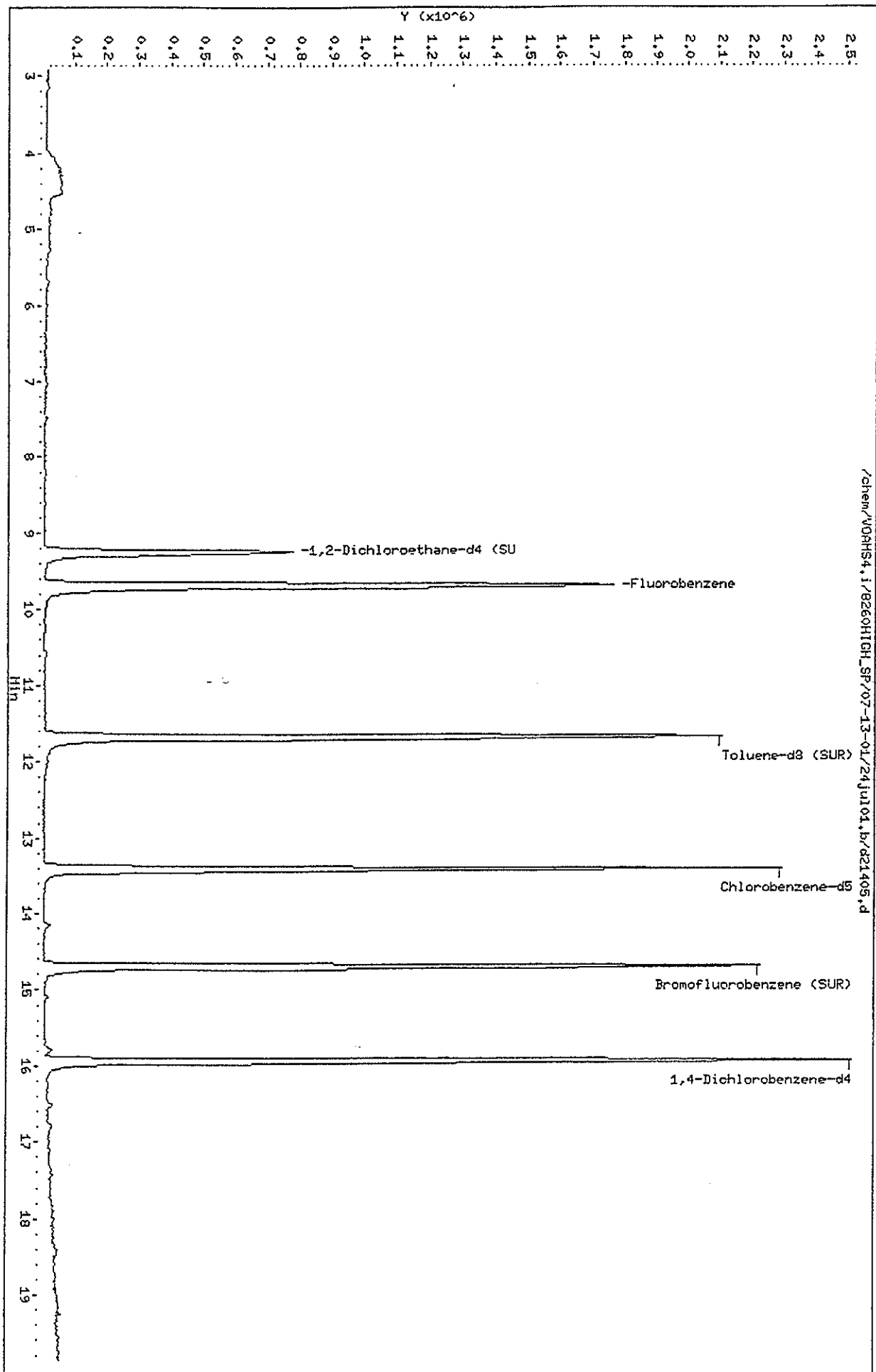
Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.242	9.242	(0.954)	1181820	46.7347	7000	
* 19 Fluorobenzene	96	9.687	9.701	(1.000)	3317836	50.0000		
\$ 37 Toluene-d8 (SUR)	98	11.675	11.674	(0.872)	2598793	45.8170	6900	
* 32 Chlorobenzene-d5	117	13.395	13.410	(1.000)	2330486	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.701	14.701	(0.923)	976706	41.8278	6300	
* 91 1,4-Dichlorobenzene-d4	152	15.932	15.932	(1.000)	1223090	50.0000		

Data File: /chem/VORHS4,1/8260HIGH_SP/07-13-01/24jul01.b/d21405.d
Date: 24-JUL-2001 17:48
Client ID: SB-5
Sample Info: 289212150,110.1,25

Column phase: DB624

Instrument: VORHS4,1
Operator: VORHS 4
Column diameter: 0.53



Client ID: TB-2
Site: NJDOT Credit Union

Lab Sample No: 289217
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2
Xylene (Total)	ND	0.2

Client ID: TB-2
Site: NJDOT Credit Union

Lab Sample No: 289217
Lab Job No: M838

Date Sampled: 07/17/01
Date Received: 07/19/01
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26794.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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16.			
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20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26794.d
Report Date: 25-Jul-2001 09:12

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26794.d
Lab Smp Id: 289217 Client Smp ID: TB-2
Inj Date : 24-JUL-2001 20:24
Operator : VOAMS 6 Inst ID: VOAMS6.i
Smp Info : 289217
Misc Info : M838;5665;;LD
Comment :
Method : /chem/VOAMS6.i/624/07-21-01/24jul01.b/624_01.m
Meth Date : 25-Jul-2001 08:29 davidl Quant Type: ISTD
Cal Date : 21-JUL-2001 16:08 Cal File: f26681.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPVOAv.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

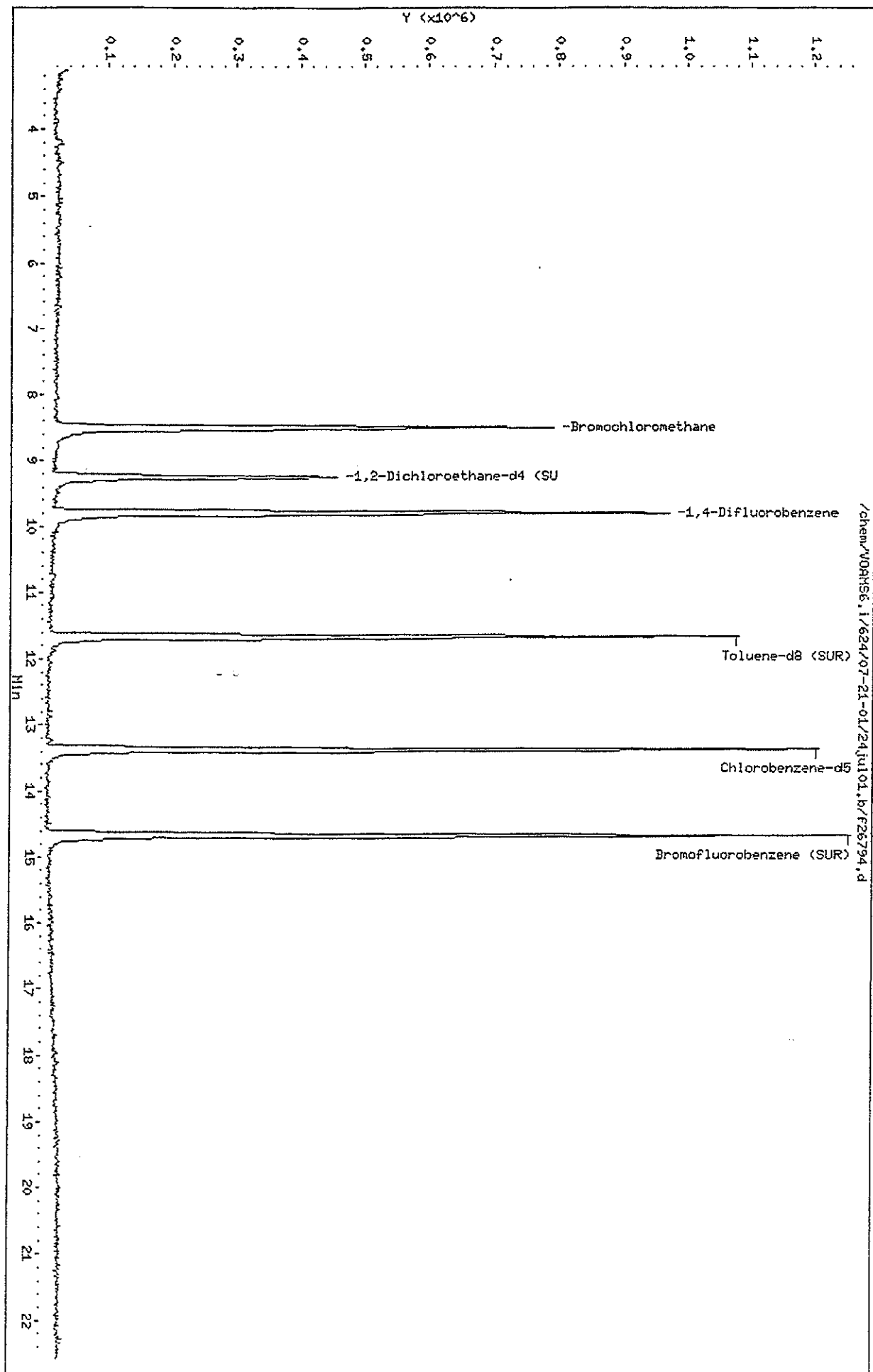
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/L)
* 2 Bromochloromethane		128	8.491	8.518	(1.000)	515376	30.0000	
\$ 16 1,2-Dichloroethane-d4 (SUR)		104	9.245	9.272	(0.944)	123463	30.9900	31
* 19 1,4-Difluorobenzene		114	9.792	9.819	(1.000)	1819820	30.0000	
\$ 37 Toluene-d8 (SUR)		98	11.655	11.668	(0.873)	1477686	29.6241	30
* 32 Chlorobenzene-d5		117	13.355	13.383	(1.000)	1505184	30.0000	
\$ 41 Bromofluorobenzene (SUR)		174	14.656	14.669	(1.097)	602475	27.6941	28

Data File: /chem/VOAHIS6.i/624/07-21-01/24jul01.b/f26794.d
Date: 24-JUL-2001 20:24

Client ID: TB-2
Sample Info: 289217
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHIS6.i
Operator: VOAHIS 6
Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: D21116

BFB Injection Date: 07/13/01

Instrument ID: VOAMS4

BFB Injection Time: 1244

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.4
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	63.8
175	5.0 - 9.0% of mass 174	4.5 (7.0)1
176	95.0 - 101.0% of mass 174	61.2 (95.9)1
177	5.0 - 9.0% of mass 176	4.3 (7.0)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DSTD005	DSTD005	D21117	07/13/01	1307
02	DSTD020	DSTD020	D21119	07/13/01	1419
03	DSTD200	DSTD200	D21120	07/13/01	1455
04	DSTD100	DSTD100	D21121	07/13/01	1530
05	DSTD050	DSTD050	D21122	07/13/01	1606
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Date : 13-JUL-2001 12:44

Client ID:

Instrument: VOAMS4.i

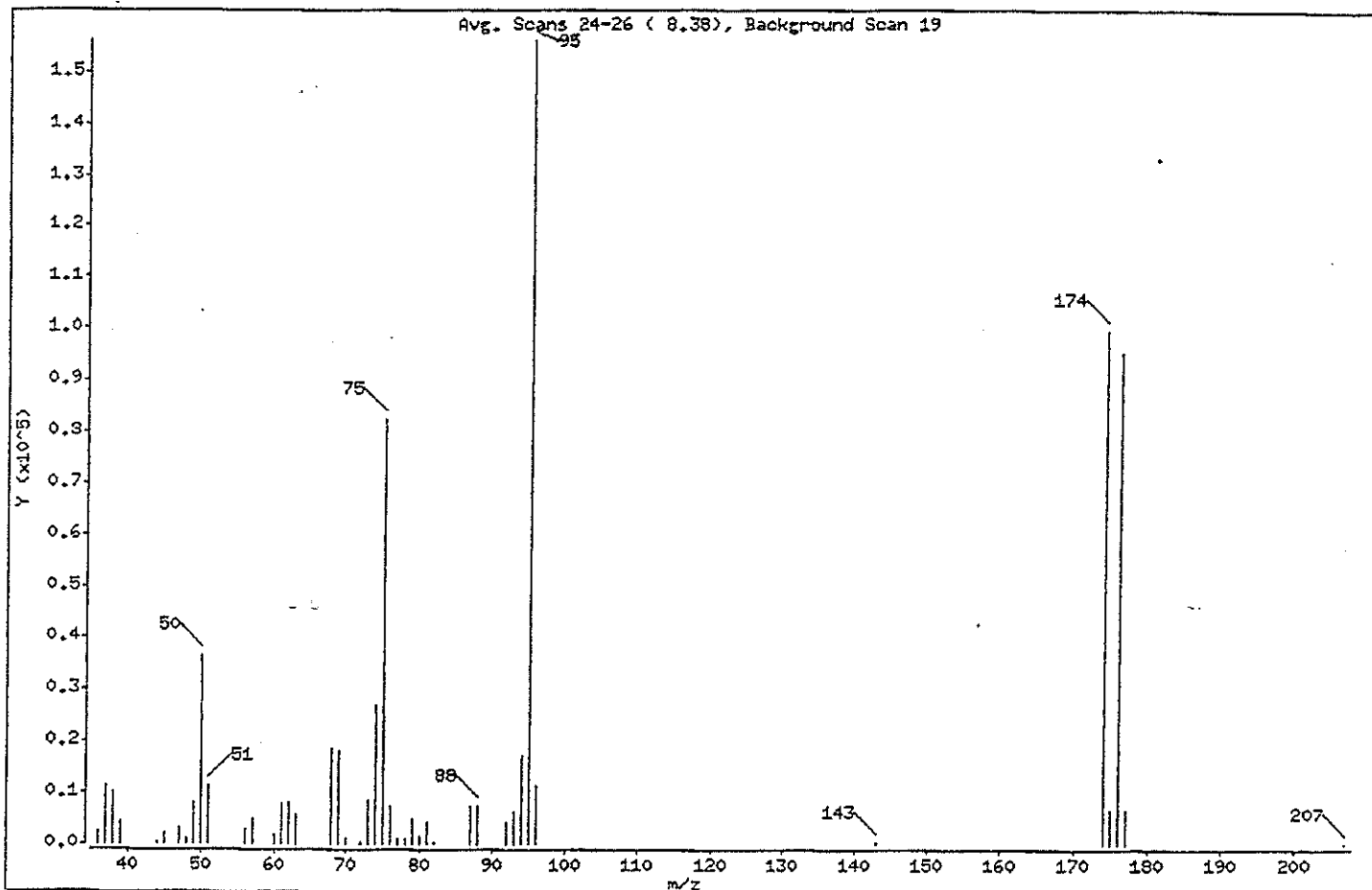
Sample Info: DBFB194, 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.41
75	30.00 - 60.00% of mass 95	52.93
96	5.00 - 9.00% of mass 95	7.39
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	63.80
175	5.00 - 9.00% of mass 174	4.48 (7.02)
176	95.00 - 101.00% of mass 174	61.17 (95.89)
177	5.00 - 9.00% of mass 176	4.31 (7.04)

Data File: /chem/VOAMS4.1/8260HIGH_SP/07-13-01/13jul01.b/d21116.d

Date : 13-JUL-2001 12:44

Client ID:

Instrument: VI

Sample Info: DBFB194 50ng

Operator: VOA

Column phase: DB-624

Column diamet

Data File: d21116.d

Spectrum: Avg. Scans 24-26 (8.38), Background

Location of Maximum: 95.00

Number of points: 44

m/z	Y	m/z	Y	m/z	Y
36.00	2689	57.00	4904	76.00	7555
37.00	11652	60.00	1879	77.00	993
38.00	10027	61.00	8068	78.00	1056
39.00	4328	62.00	8229	79.00	4948
44.00	271	63.00	5658	80.00	1522
45.00	2117	68.00	18664	81.00	4269
47.00	3154	69.00	18232	82.00	471
48.00	997	70.00	1106	87.00	7681
49.00	8213	72.00	484	88.00	7691
50.00	36528	73.00	8738	92.00	4166
51.00	11309	74.00	27224	93.00	6327
56.00	2742	75.00	82608	94.00	17112

VOLATILE ORGANIC INSTRUMENT PER
BROMOFLUOROBENZENE (E

Lab File ID: D21312

I

Instrument ID: VOAMS4

I

m/e	ION ABUNDANCE CRITERIA
50	15.0 - 40.0% of mass 95
75	30.0 - 60.0% of mass 95
95	Base Peak, 100% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	50.0 - 100.0% of mass 95
175	5.0 - 9.0% of mass 174
176	95.0 - 101.0% of mass 174
177	5.0 - 9.0% of mass 176

1-Value is % mass 174 2-V

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, N

	CLIENT ID	LAB SAMPLE No.	LAB FILE]
01	DSTD202	DSTD202	D21313
02	DV202	DV202	D21316
03	SB-2	289209	D21317
04	SB-1	289205	D21318
05	TB-1	289206	D21319
06	SB-3	289210	D21320
07	SB-4	289211	D21321
08			
09			
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16			
17			
18			
19			
20			
21			
22			

Date : 21-JUL-2001 06:36

Client ID:

Instrument: VOAMS4.i

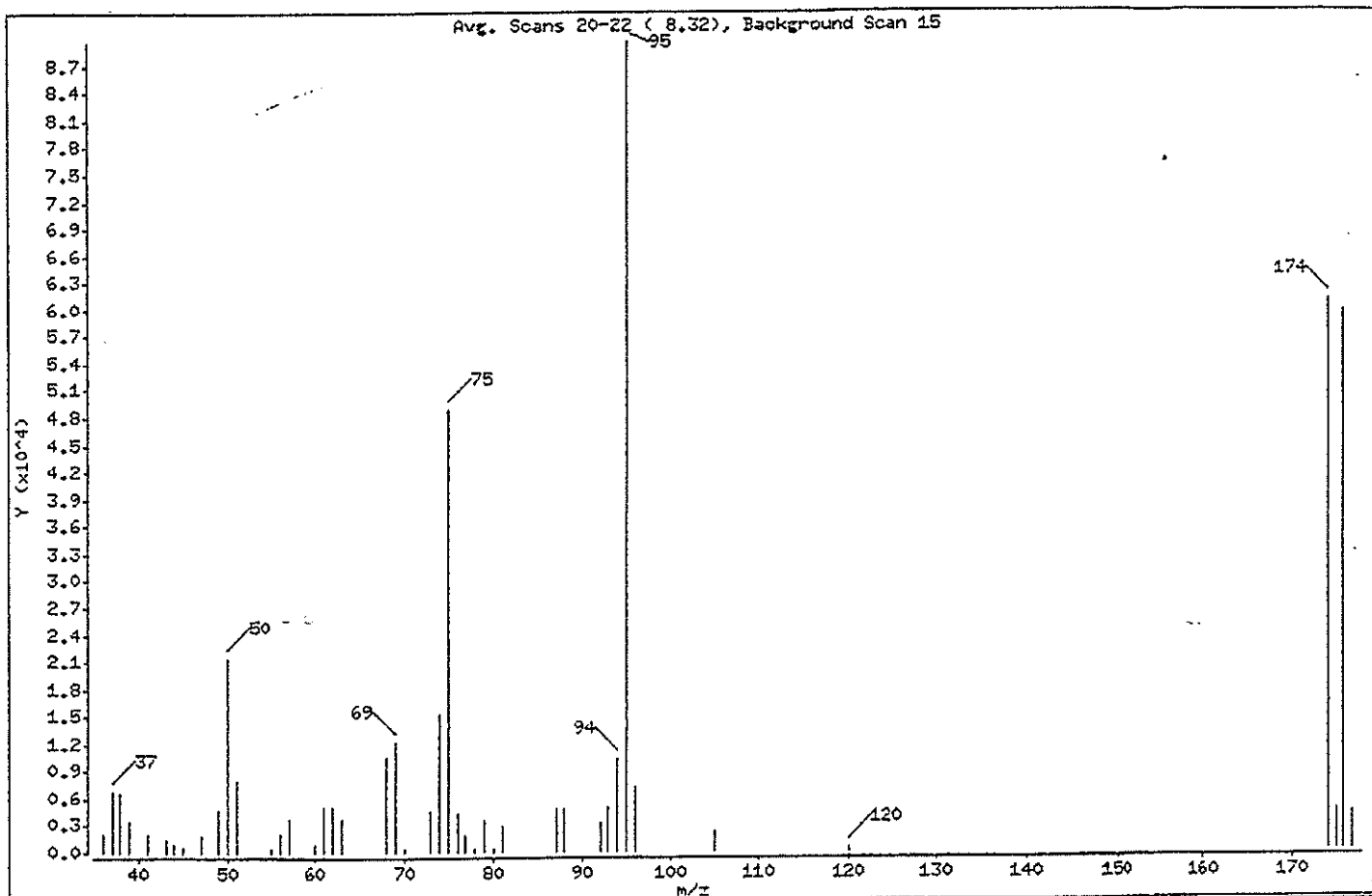
Sample Info: DBFB202, 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.92
75	30.00 - 60.00% of mass 95	54.53
96	5.00 - 9.00% of mass 95	8.10
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	67.75
175	5.00 - 9.00% of mass 174	4.94 (7.29)
176	95.00 - 101.00% of mass 174	66.33 (97.91)
177	5.00 - 9.00% of mass 176	4.71 (7.10)

Date : 21-JUL-2001 06:36

Client ID:

Instrument: VOAMS4.i

Sample Info: DBFB202 , 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

Data File: d21312.d

Spectrum: Avg. Scans 20-22 (8.32), Background Scan 15

Location of Maximum: 95.00

Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1989	55.00	443	75.00	48672	95.00	89632
37.00	6809	56.00	2156	76.00	4425	96.00	7256
38.00	6641	57.00	3764	77.00	1926	105.00	2288
39.00	3556	60.00	913	78.00	434	120.00	489
41.00	2004	61.00	5047	79.00	3539	174.00	60728
43.00	1511	62.00	4945	80.00	447	175.00	4426
44.00	987	63.00	3701	81.00	2851	176.00	59456
45.00	623	68.00	10524	87.00	4707	177.00	4220
47.00	1797	69.00	12119	88.00	4723		
49.00	4706	70.00	500	92.00	3200		
50.00	21440	73.00	4498	93.00	4952		
51.00	7939	74.00	15250	94.00	10296		

Date : 21-JUL-2001 06:36

Client ID:

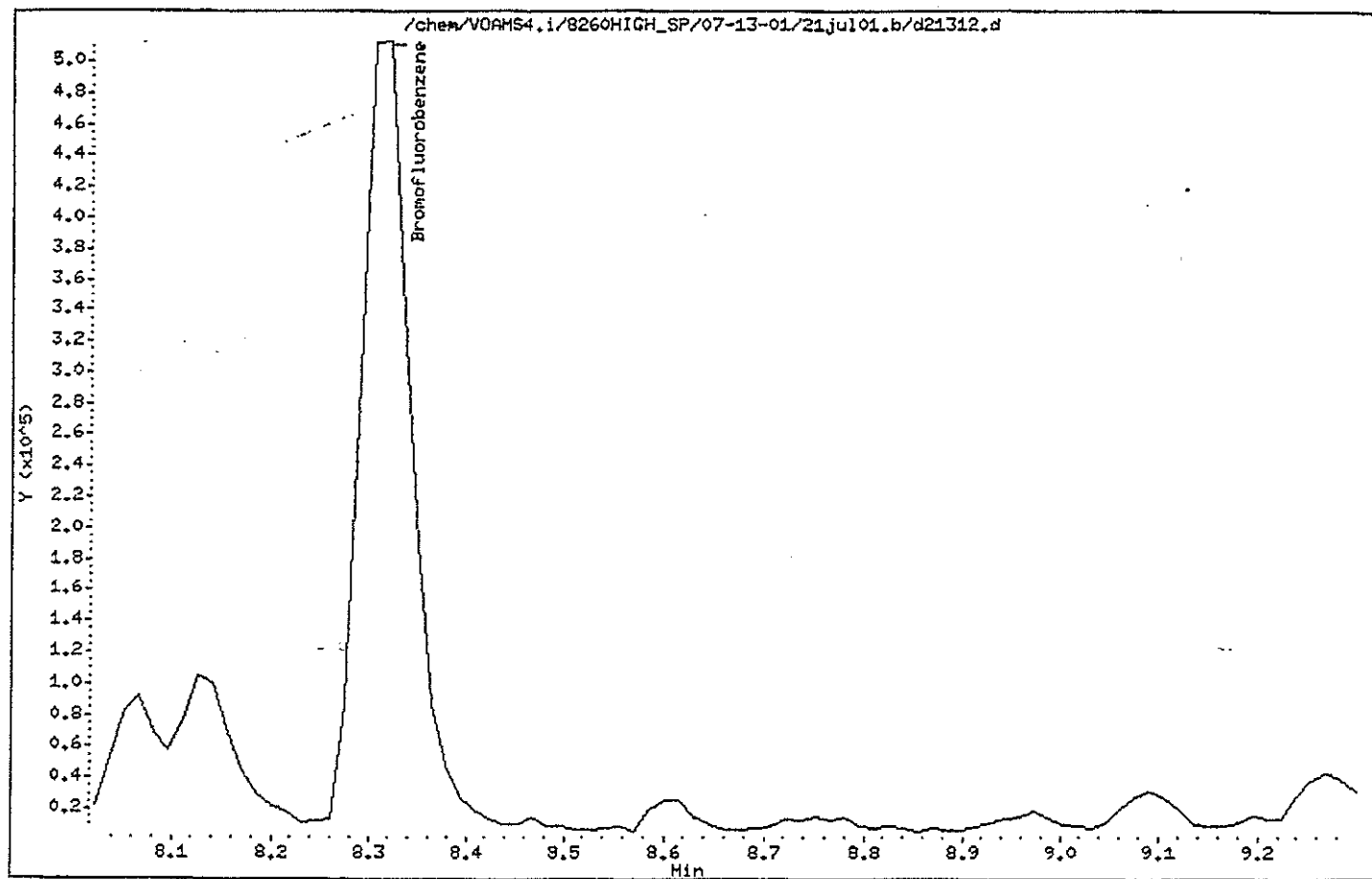
Instrument: VOAHS4.i

Sample Info: DBFB202 50ng

Operator: VOAHS 1

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: D21395

BFB Injection Date: 07/24/01

Instrument ID: VOAMS4

BFB Injection Time: 1023

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.7
75	30.0 - 60.0% of mass 95	54.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	55.8
175	5.0 - 9.0% of mass 174	4.1 (7.3)1
176	95.0 - 101.0% of mass 174	54.4 (97.5)1
177	5.0 - 9.0% of mass 176	3.9 (7.1)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	DSTD205	DSTD205	D21396	07/24/01	1050
02	DV205M	DV205M	D21403	07/24/01	1625
03	SB-5	289212	D21405	07/24/01	1748
04					
05					
06					
07					
08					
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14					
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16					
17					
18					
19					
20					
21					
22					

Date : 24-JUL-2001 10:23

Client ID:

Instrument: VOAMS4.i

Sample Info: DBFB205

50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

Data File: d21395.d

Spectrum: Avg. Scans 23-25 (8.36), Background Scan 19

Location of Maximum: 95.00

Number of points: 35

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2090	51.00	7053	74.00	15321	93.00	3473
37.00	6894	56.00	1961	75.00	47048	94.00	9358
38.00	5750	57.00	3277	76.00	4491	95.00	86336
39.00	3013	61.00	4912	78.00	443	96.00	6566
44.00	595	62.00	4711	79.00	2706	174.00	48160
45.00	1004	63.00	3456	81.00	2753	175.00	3497
47.00	1640	68.00	10448	87.00	4539	176.00	46960
49.00	4375	69.00	10328	88.00	4322	177.00	3334
50.00	22184	73.00	3645	92.00	2587		

Date : 24-JUL-2001 10:23

Client ID:

Instrument: VOAMS4.i

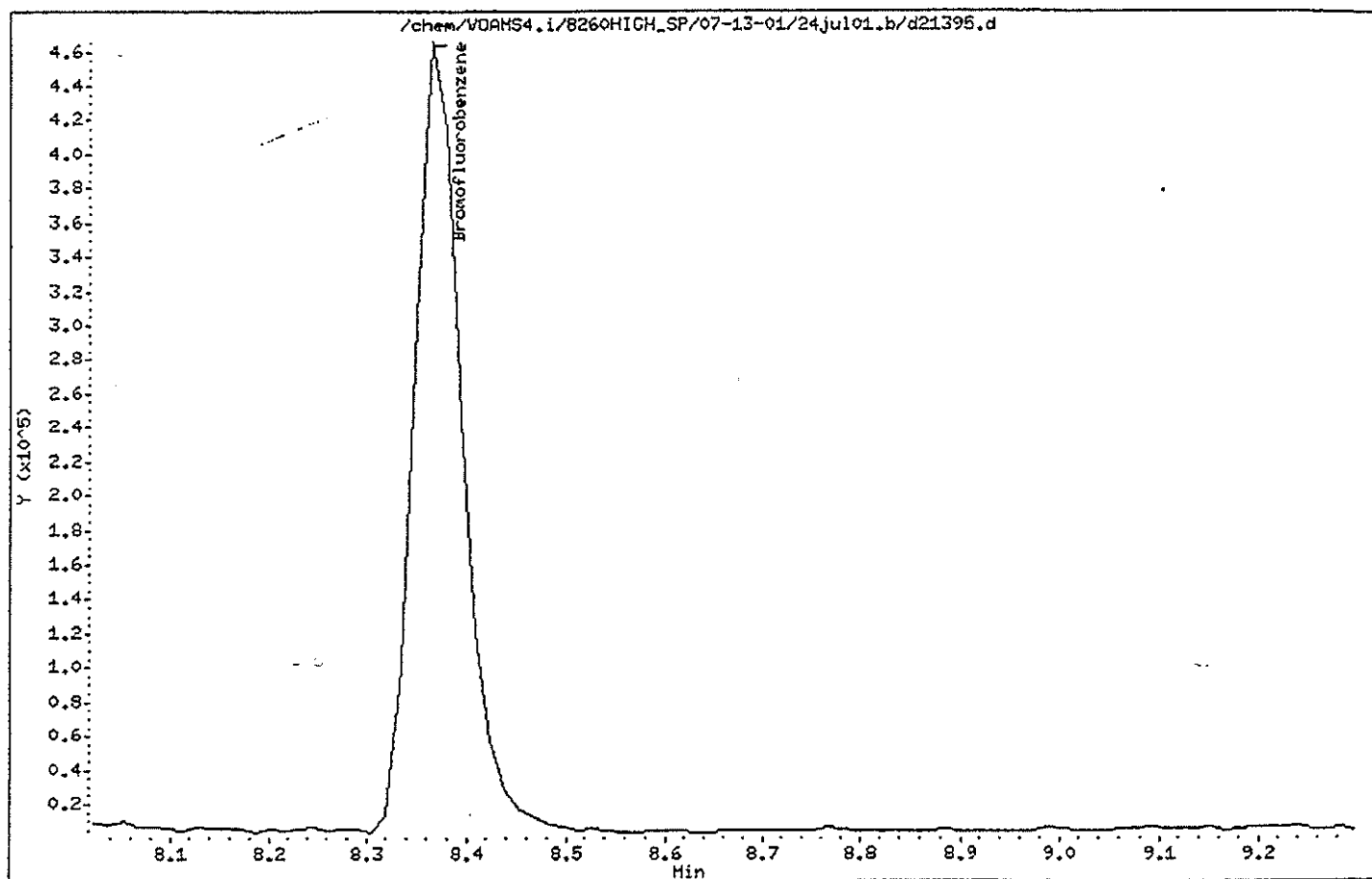
Sample Info: DBFB205

Song

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: F26675

BFB Injection Date: 07/21/01

Instrument ID: VOAMS6

BFB Injection Time: 1257

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.5
75	30.0 - 60.0% of mass 95	47.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	60.6
175	5.0 - 9.0% of mass 174	4.5 (7.4)1
176	95.0 - 101.0% of mass 174	59.8 (98.7)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

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

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	FSTD005	FSTD005	F26676	07/21/01	1325
02	FSTD010	FSTD010	F26678	07/21/01	1430
03	FSTD020	FSTD020	F26679	07/21/01	1503
04	FSTD050	FSTD050	F26680	07/21/01	1535
05	FSTD200	FSTD200	F26681	07/21/01	1608
06					
07					
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18					
19					
20					
21					
22					

Data File: /chem/VOAHS6.i/624/07-21-01/21jul01.b/f26675.d

Date : 21-JUL-2001 12:57

Client ID:

Instrument: VOAHS6.i

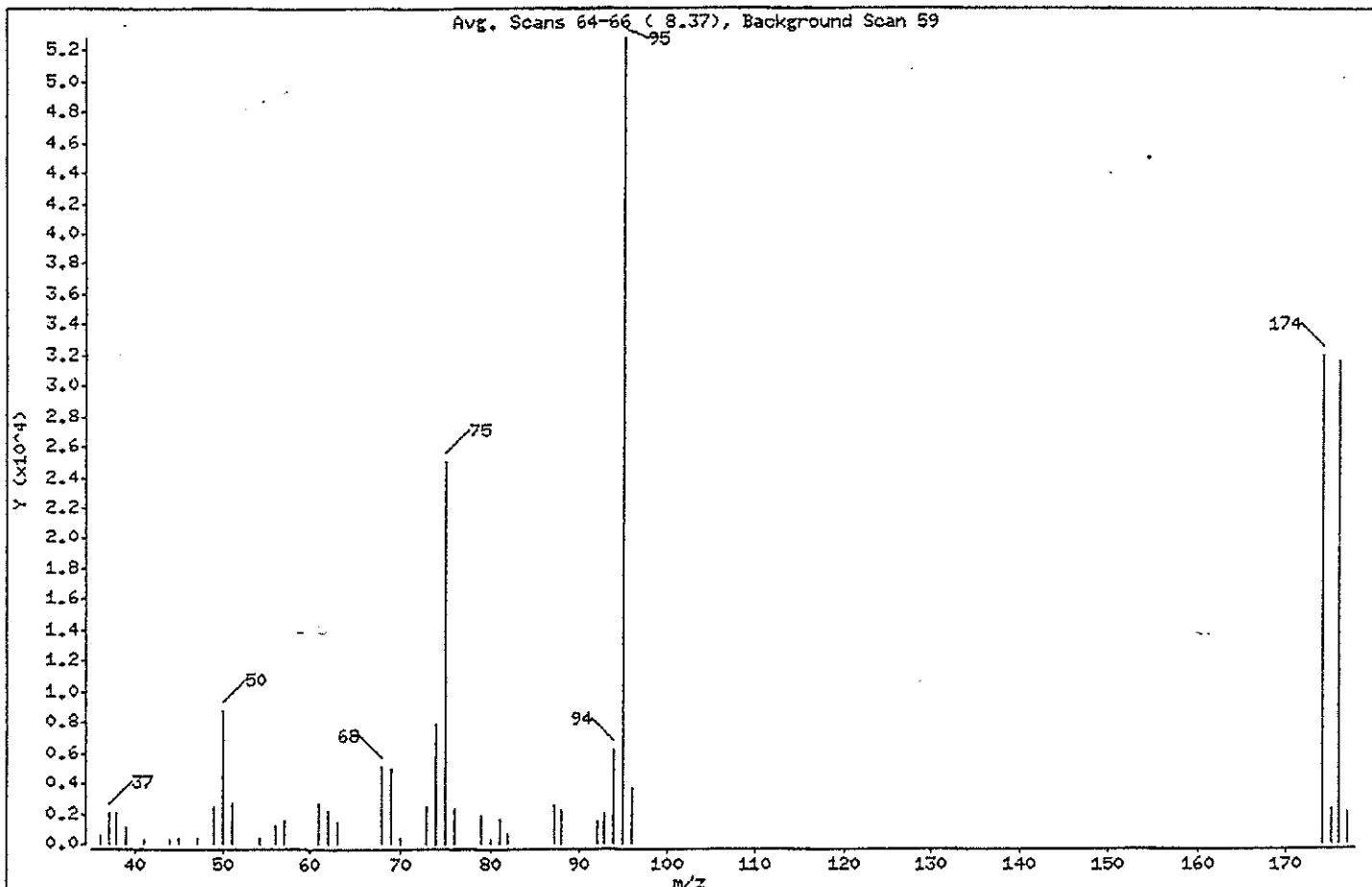
Sample Info: FBF202 50ng

Operator: VOAHS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e		ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
	95	Base Peak, 100% relative abundance		100.00
	50	15.00 - 40.00% of mass 95		16.48
	75	30.00 - 60.00% of mass 95		47.57
	96	5.00 - 9.00% of mass 95		7.01
	173	Less than 2.00% of mass 174		0.00 (0.00)
	174	50.00 - 100.00% of mass 95		60.62
	175	5.00 - 9.00% of mass 174		4.47 (7.38)
	176	95.00 - 101.00% of mass 174		59.84 (98.71)
	177	5.00 - 9.00% of mass 176		3.92 (6.54)

Data File: /chem/VOAHS6.i/624/07-21-01/21jul01.b/f26675.d

Date : 21-JUL-2001 12:57

Client ID:

Instrument: VOAHS6.i

Sample Info: FBF8202, 50ng

Operator: VOAHS 1

Column phase: DB-624

Column diameter: 0.53

Data File: f26675.d

Spectrum: Avg. Scans 64-66 (8.37), Background Scan 59

Location of Maximum: 95.00

Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	51.00	2705	73.00	2408	92.00	1449
37.00	2077	54.00	324	74.00	7858	93.00	1954
38.00	2032	56.00	1171	75.00	25096	94.00	6165
39.00	1052	57.00	1554	76.00	2307	95.00	52760
41.00	284	61.00	2650	79.00	1849	96.00	3699
44.00	188	62.00	2130	80.00	275	174.00	31984
45.00	307	63.00	1494	81.00	1602	175.00	2360
47.00	348	68.00	5111	82.00	624	176.00	31568
49.00	2396	69.00	4937	87.00	2544	177.00	2066
50.00	8696	70.00	341	88.00	2216		

Data File: /chem/VOAMS6.i/624/07-21-01/21jul01.b/f26675.d

Date : 21-JUL-2001 12:57

Client ID:

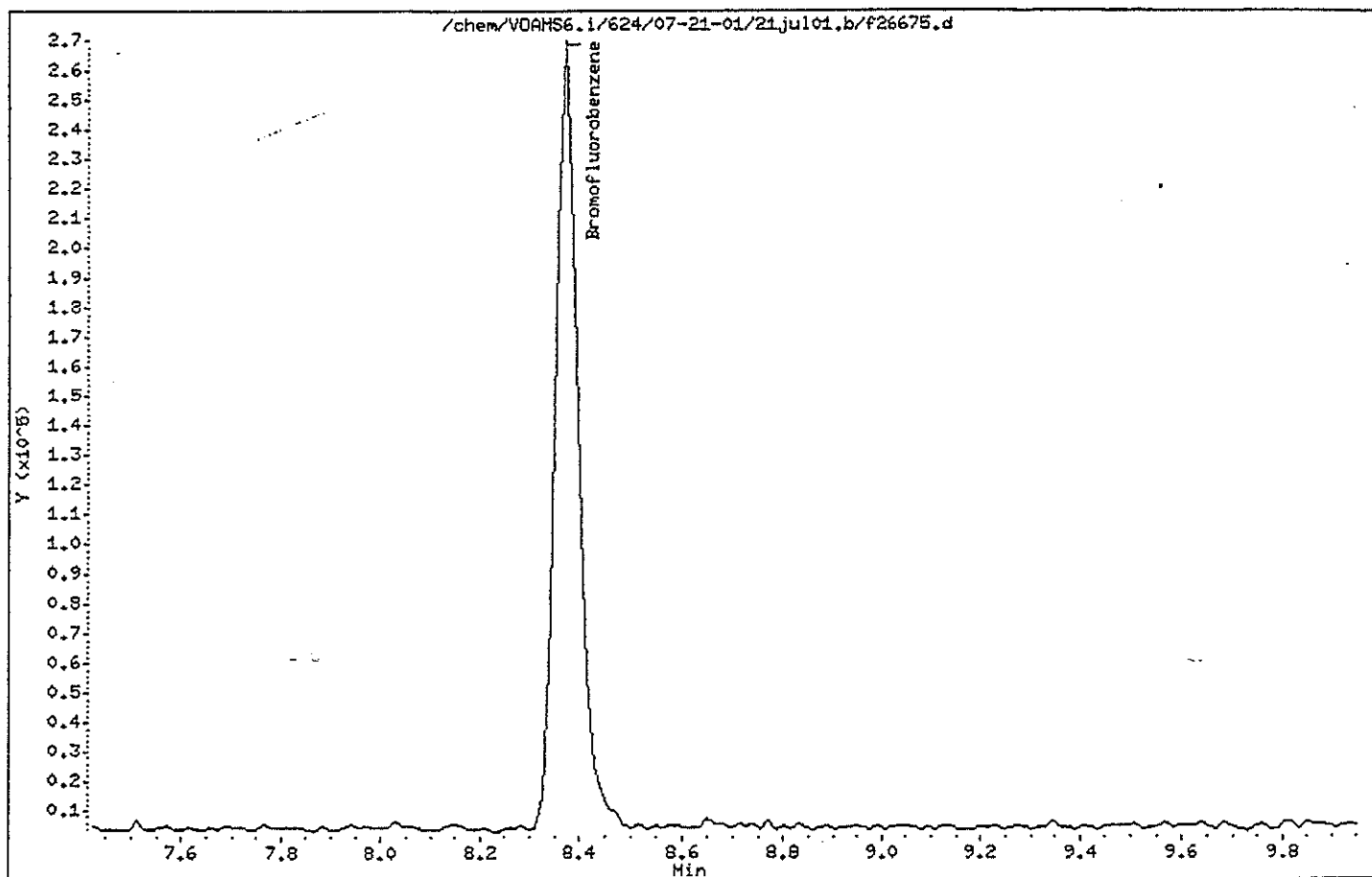
Instrument: VOAMS6.i

Sample Info: FBFB202 , 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53



VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab File ID: F26781

BFB Injection Date: 07/24/01

Instrument ID: VOAMS6

BFB Injection Time: 1226

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	47.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	58.4
175	5.0 - 9.0% of mass 174	4.5 (7.8)1
176	95.0 - 101.0% of mass 174	57.0 (97.6)1
177	5.0 - 9.0% of mass 176	3.2 (5.6)2

1-Value is % mass 174

2-Value is % mass 176

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	FSTD205	FSTD205	F26782	07/24/01	1318
02	FV205A	FV205A	F26785	07/24/01	1505
03	FB-1	289207	F26792	07/24/01	1919
04	GW-1	289208	F26793	07/24/01	1951
05	TB-2	289217	F26794	07/24/01	2024
06					
07					
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17					
18					
19					
20					
21					
22					

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/F26781.d

Date : 24-JUL-2001 12:26

Client ID:

Instrument: VOAMS6.1

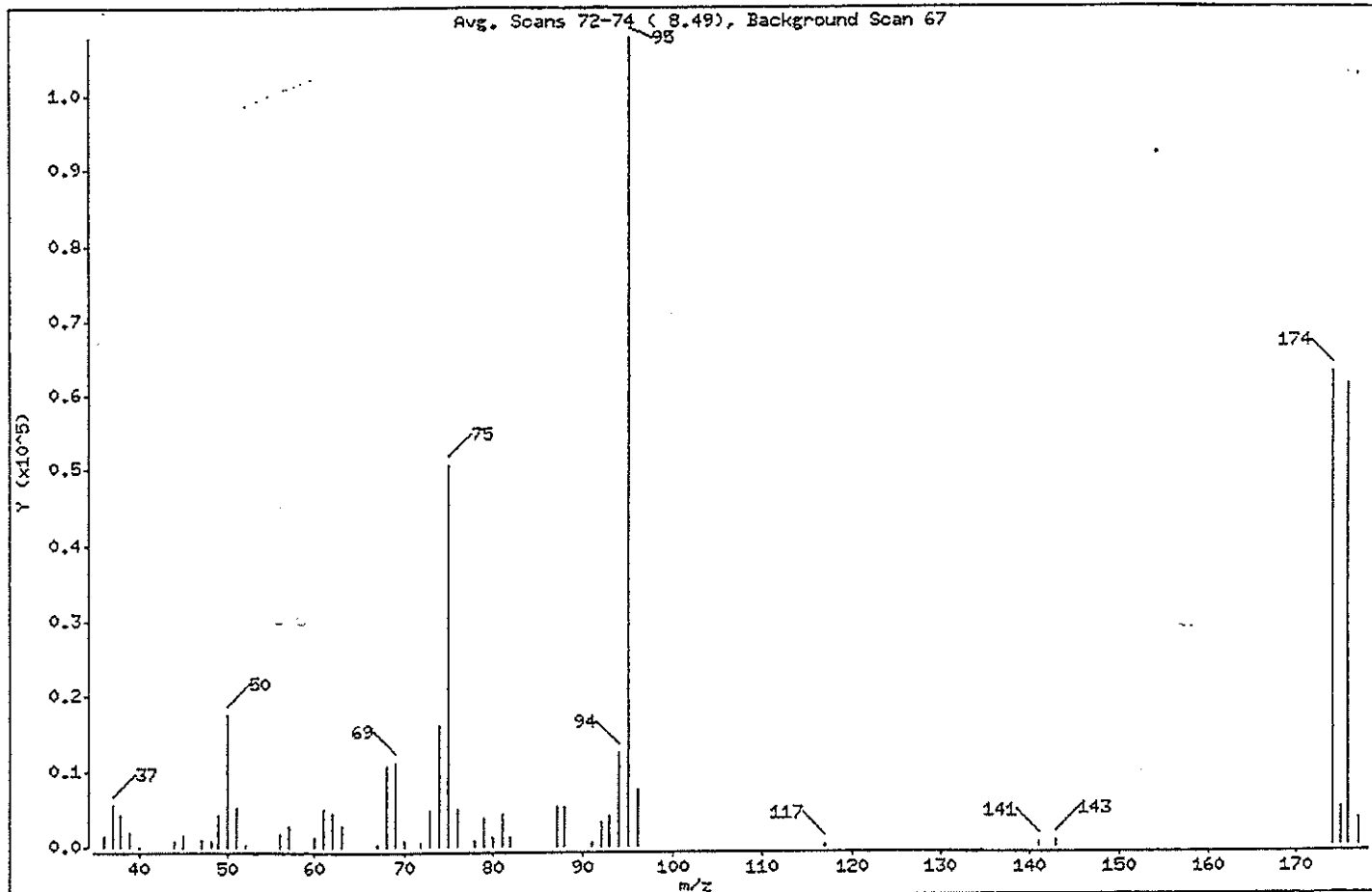
Sample Info: FBFB205 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53

1 Bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.44
75	30.00 - 60.00% of mass 95	47.02
96	5.00 - 9.00% of mass 95	6.80
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	58.44
175	5.00 - 9.00% of mass 174	4.55 (7.78)
176	95.00 - 101.00% of mass 174	57.02 (97.55)
177	5.00 - 9.00% of mass 176	3.20 (5.62)

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26781.d

Date : 24-JUL-2001 12:26

Instrument: VOAMS6.i

Client ID:

Sample Info: FBFB205, 50ng

Operator: VOAMS 1

Column diameter: 0.53

Column phase: DB-624

Data File: f26781.d

Spectrum: Avg. Scans 72-74 (8.49), Background Scan 67

Location of Maximum: 95.00

Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1466	56.00	1628	75.00	50632	95.00	107680
37.00	5338	57.00	2722	76.00	4990	96.00	7326
38.00	4271	60.00	1320	78.00	835	117.00	268
39.00	2095	61.00	5044	79.00	3615	141.00	396
40.00	46	62.00	4537	80.00	1352	143.00	653
44.00	653	63.00	2680	81.00	4145	174.00	62936
45.00	1401	67.00	279	82.00	1192	175.00	4895
47.00	882	68.00	10547	87.00	5214	176.00	61392
48.00	744	69.00	11271	88.00	5294	177.00	3451
49.00	4210	70.00	696	91.00	379		
50.00	17704	72.00	553	92.00	3235		
51.00	5176	73.00	4783	93.00	3876		
52.00	269	74.00	16156	94.00	12324		

Data File: /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26781.d

Date : 24-JUL-2001 12:26

Client ID:

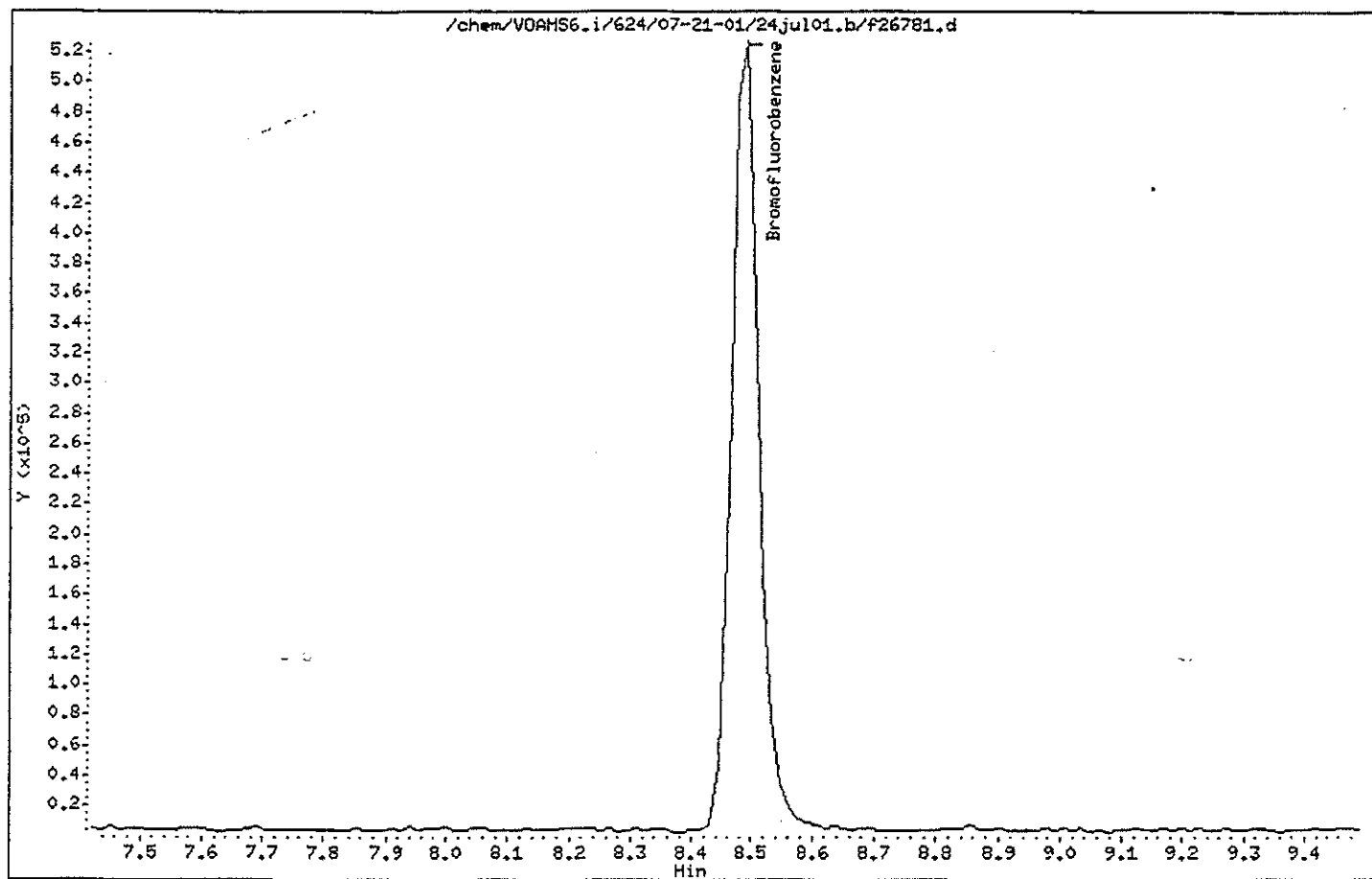
Instrument: VOAMS6.i

Sample Info: FFB205 50ng

Operator: VOAMS 1

Column phase: DB-624

Column diameter: 0.53





Method Blank Results Summary

VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

DV202

Matrix: SOIL

Date Analyzed: 07/21/01

Level: HIGH

Time Analyzed: 0903

Lab File ID: D21316

Heated Purge (Y/N) N

Instrument ID: VOAMS4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
01	SB-2	289209	D21317	0943
02	SB-1	289205	D21318	1013
03	TB-1	289206	D21319	1101
04	SB-3	289210	D21320	1131
05	SB-4	289211	D21321	1202
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COMMENTS:

Client ID: DV202
Site:

Lab Sample No: DV202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21316.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: DV202
Site:

Lab Sample No: DV202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21316.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: DV202
Site:

Lab Sample No: DV202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21316.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Methyl Acrylate	ND		500
1,1,1,2-Tetrachloroethane	ND		500
1,2,3-Trichlorobenzene	ND		500
1,2,3-Trichloropropane	ND		500
1,2,4-Trimethylbenzene	ND		500
1,2-Dibromo-3-chloropropane	ND		500
1,3,5-Trimethylbenzene	ND		500
1,3-Dichloropropane	ND		500
2,2-Dichloropropane	ND		500
2-Chlorotoluene	ND		500
4-Chlorotoluene	ND		500
Bromobenzene	ND		500
Bromochloromethane	ND		500
Dibromomethane	ND		500
Isopropylbenzene	ND		500
n-Butylbenzene	ND		500
n-Propylbenzene	ND		500
p-Isopropyltoluene	ND		500
sec-Butylbenzene	ND		500
tert-Butylbenzene	ND		500
Allyl chloride	ND		500
Benzyl chloride	ND		500
Epichlorohydrin	ND		10000
Isoprene	ND		500
Methyl methacrylate	ND		500
n-Pentane	ND		500
Allyl alcohol	ND		100000
2-Octanol	ND		1000
2-Octanone	ND		500
Ethyl Acrylate	ND		500
Butyl Acrylate	ND		500
Butyl Methacrylate	ND		500
Ethyl methacrylate	ND		500
Ethanol	ND		50000

Client ID: DV202
Site:

Lab Sample No: DV202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21316.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
a-methylstyrene	ND	500

Client ID: DV202
Site:

Lab Sample No: DV202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/21/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21316.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/d21316.d
 Lab Smp Id: DV202 Client Smp ID: DV202
 Inj Date : 21-JUL-2001 09:03
 Operator : VOAMS 4 Inst ID: VOAMS4.i
 Smp Info : DV202
 Misc Info :
 Comment :
 Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/21jul01.b/8260H_01.m
 Meth Date : 25-Jul-2001 13:41 pritch Quant Type: ISTD
 Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
 Als bottle: 2 QC Sample: BLANK
 Dil Factor: 50.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: hpd2

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

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/L)	(ug/Kg)
=====	=====	==	=====	=====	=====	=====	=====	
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.271	9.272	(0.954)	2068363	49.7924	5000	
* 19 Fluorobenzene	96	9.716	9.702	(1.000)	5450121	50.0000		
\$ 37 Toluene-d8 (SUR)	98	11.689	11.690	(0.872)	4739132	48.5292	4800	
* 32 Chlorobenzene-d5	117	13.410	13.411	(1.000)	4012329	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.700	14.701	(0.923)	2028375	48.5128	4800	
* 91 1,4-Dichlorobenzene-d4	152	15.932	15.933	(1.000)	2190041	50.0000		

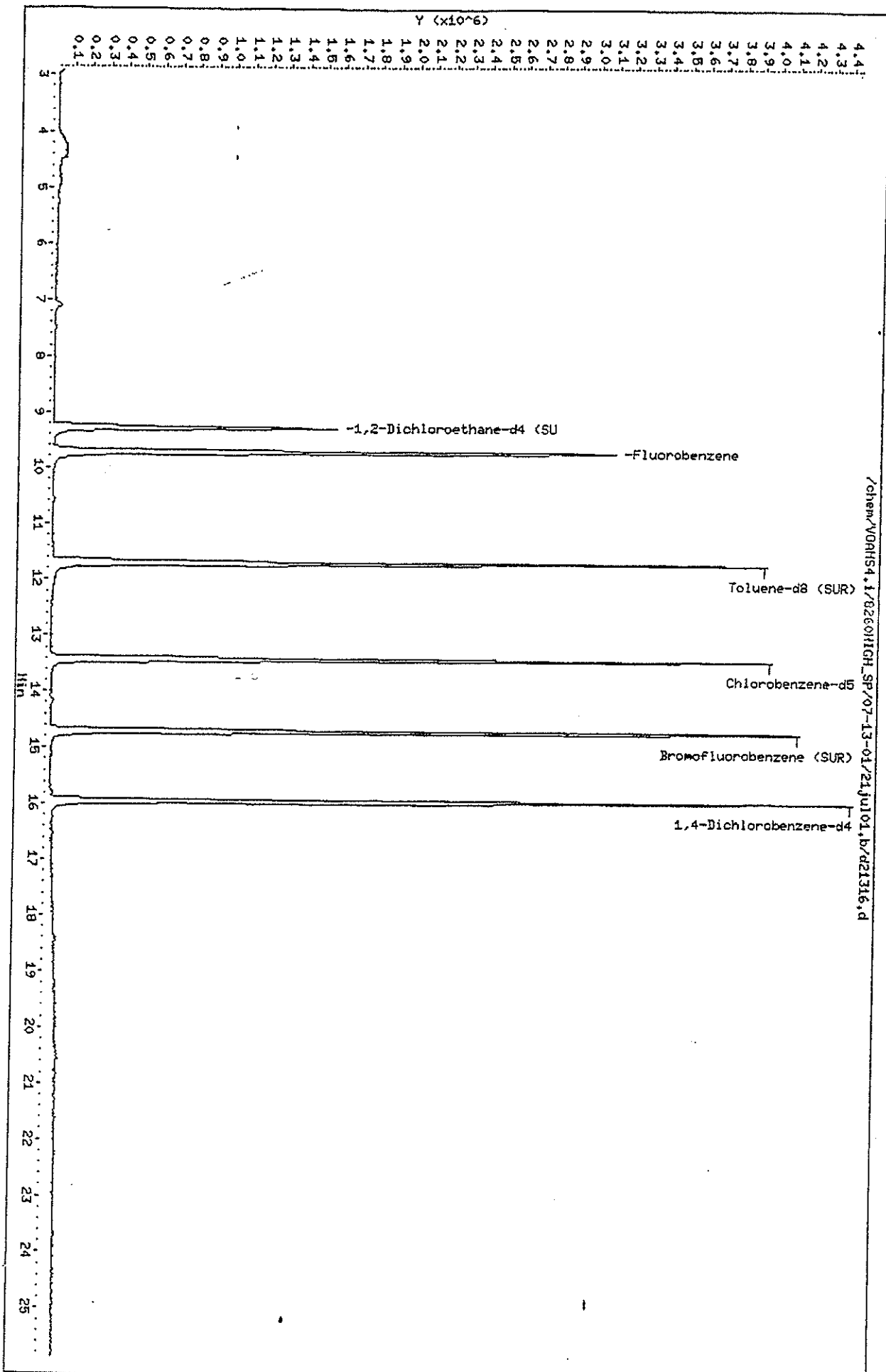
Data File: /chem/VOAHS4.1/8260HIGH_SP/07-13-01/21jul01.b/d21316.d
Date: 21-JUL-2001 09:03
Client ID: DV202
Sample Info: DV202

Instrument: VOAHS4.1

Column phase: DB624

Operator: VOAHS 4
Column diameter: 0.53

/chem/VOAHS4.1/8260HIGH_SP/07-13-01/21jul01.b/d21316.d



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

DV205M

Matrix: SOIL

Date Analyzed: 07/24/01

Level: HIGH

Time Analyzed: 1625

Lab File ID: D21403

Heated Purge (Y/N) N

Instrument ID: VOAMS4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	SB-5	289212	D21405	1748
02				
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

page 1 of 1

Client ID: DV205M
Site:

Lab Sample No: DV205M
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21403.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: DV205M
Site:

Lab Sample No: DV205M
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21403.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: DV205M
Site:

Lab Sample No: DV205M
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21403.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

Client ID: DV205M
Site:

Lab Sample No: DV205M
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21403.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
a-methylstyrene	ND	500

Client ID: DV205M
Site:

Lab Sample No: DV205M
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS4.i
Lab File ID: d21403.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
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22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Data File: /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/d21403.d
Report Date: 31-Jul-2001 11:12

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VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/d21403.d
Lab Smp Id: DV205M Client Smp ID: DV205M
Inj Date : 24-JUL-2001 16:25
Operator : VOAMS 4 Inst ID: VOAMS4.i
Smp Info : DV205M
Misc Info :
Comment :
Method : /chem/VOAMS4.i/8260HIGH_SP/07-13-01/24jul01.b/8260H_01.m
Meth Date : 24-Jul-2001 11:28 ken Quant Type: ISTD
Cal Date : 13-JUL-2001 16:06 Cal File: d21122.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

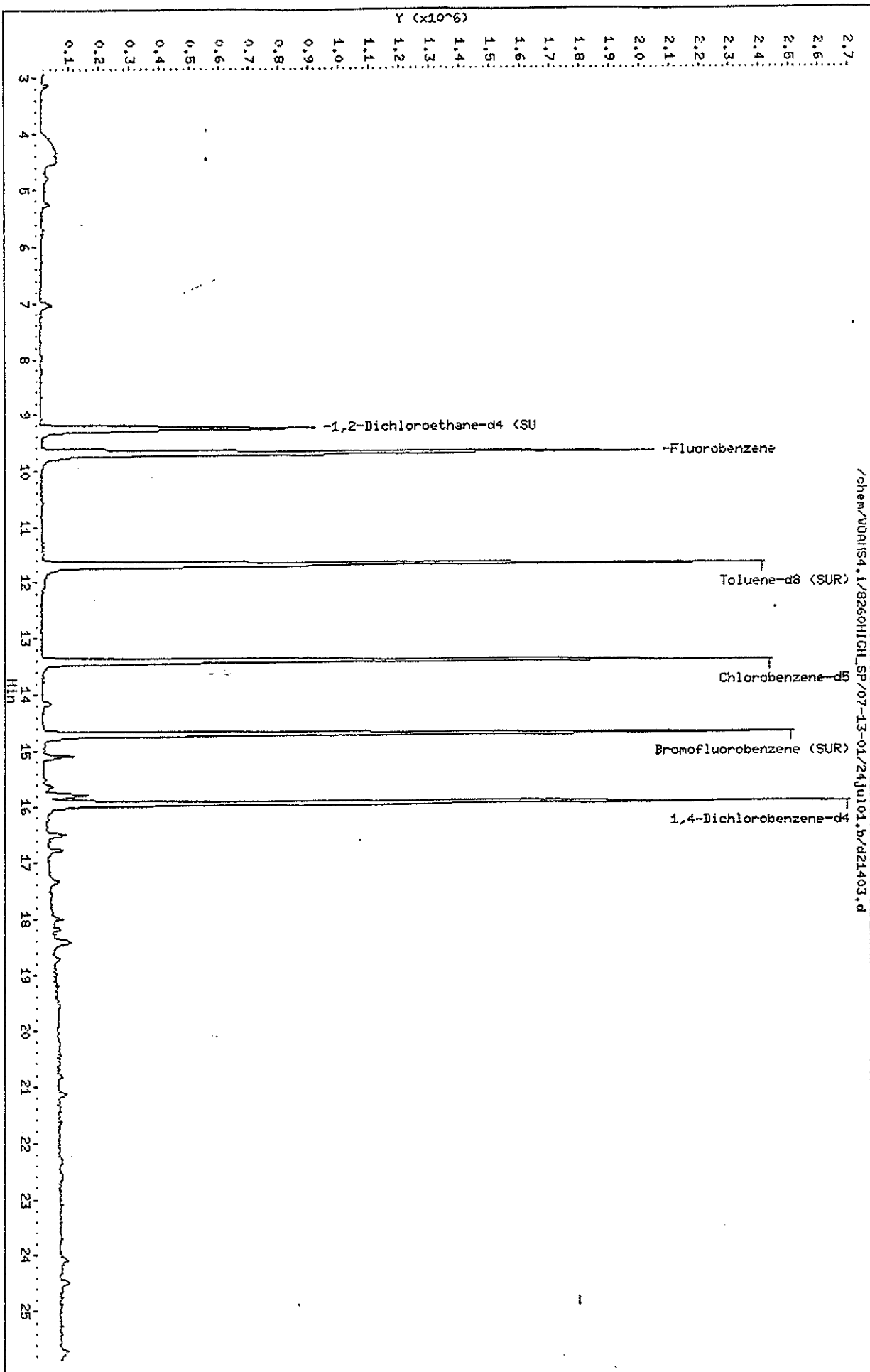
Concentration Formula: Amt * DF * (Vt/Ws)/((100-M)/100) * CpndVariable

Name	Value	Description
DF	50.00000	Dilution Factor
Vt	10.00000	Volume of final extract (mL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture (not decanted)

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/L)	FINAL (ug/Kg)
\$ 16 1,2-Dichloroethane-d4 (SUR)	65	9.256	9.242	(0.956)	1335782	48.0425	4800	
* 19 Fluorobenzene	96	9.686	9.701	(1.000)	3647978	50.0000		
\$ 37 Toluene-d8 (SUR)	98	11.674	11.674	(0.872)	2929756	48.6007	4900	
* 32 Chlorobenzene-d5	117	13.395	13.410	(1.000)	2476795	50.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.700	14.701	(0.923)	1102564	44.1453	4400	
* 91 1,4-Dichlorobenzene-d4	152	15.931	15.932	(1.000)	1308215	50.0000		



VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

FV205A

Matrix: WATER

Date Analyzed: 07/24/01

Level: LOW

Time Analyzed: 1505

Lab File ID: F26785

Heated Purge (Y/N) N

Instrument ID: VOAMS6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	FB-1	289207	F26792	1919
02	GW-1	289208	F26793	1951
03	TB-2	289217	F26794	2024
04				
05				
06				
07				
08				
09				
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29				
30				

COMMENTS:

Client ID: FV205A
Site:

Lab Sample No: FV205A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Acetone	ND	1.5
Carbon Disulfide	ND	0.2
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	0.6
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
4-Methyl-2-Pentanone	ND	0.2
2-Hexanone	ND	0.4
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2

Client ID: FV205A
Site:

Lab Sample No: FV205A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u>
		<u>Limit</u> <u>Units: ug/l</u>
Styrene	ND	0.1
Xylene (Total)	ND	0.2
Ethyl Ether	ND	0.2
Acrolein	ND	7.7
Freon TF	ND	0.3
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	5.8
Acrylonitrile	ND	2.8
MTBE	ND	0.2
Hexane	ND	0.5
DIPE	ND	0.2
Ethyl Acetate	ND	0.8
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	0.3
Isobutanol	ND	500
Isopropyl Acetate	ND	0.9
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	0.4
Butyl Acetate	ND	0.5
1,2-Dibromoethane	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.1
Naphthalene	ND	0.3
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.5
1,4-Dioxane	ND	67
n-Pentane	ND	0.6
5-Methyl-2-Hexanone	ND	5.0
Isopropylbenzene	ND	0.2

Client ID: FV205A
Site:

Lab Sample No: FV205A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
1,2,4-Trimethylbenzene	ND	0.2
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	0.2
Methyl Methacrylate	ND	0.3
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	3.8
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	0.5
Isoprene	ND	0.3
1,1,1,2-Tetrachloroethane	ND	0.2
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	0.2
1,2,3-Trichlorobenzene	ND	0.3
n-Butylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
tert-Butylbenzene	ND	1.0
p-Isopropyltoluene	ND	1.0
n-Propylbenzene	ND	1.0
m+p-Ethyltoluene	ND	1.0
o-Ethyltoluene	ND	1.0
Methyl Acetate	ND	0.4
Methyl cyclohexane	ND	0.3
1,2-Dibromo-3-chloropropane	ND	0.4
Cyclohexene	ND	1.0
1,2-Dichlorotrifluoroethane	ND	1.0
n-Propanol	ND	250
3-Methyl-1-Pentyn-3-ol	ND	250
Propylene Oxide	ND	50
Ethanol	ND	500
Chlorotrifluoroethane	ND	1.0
Dichlorofluoromethane	ND	1.0
Ethylene Oxide	ND	500
Methyl Formate	ND	500

Client ID: FV205A
Site:

Lab Sample No: FV205A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Isobutyraldehyde	ND	5.0
Amyl Acetate	ND	5.0
1,2,3-Trichloropropane	ND	5.0

Client ID: FV205A
Site:

Lab Sample No: FV205A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Analyzed: 07/24/01
GC Column: DB624
Instrument ID: VOAMS6.i
Lab File ID: f26785.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
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16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

STL Edison

VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/VOAMS6.i/624/07-21-01/24jul01.b/f26785.d
 Lab Smp Id: FV205A
 Inj Date : 24-JUL-2001 15:05
 Operator : VOAMS 6
 Smp Info : FV205A
 Misc Info :
 Comment :
 Method : /chem/VOAMS6.i/624/07-21-01/24jul01.b/624_01.m
 Meth Date : 24-Jul-2001 16:27 maryb
 Cal Date : 21-JUL-2001 16:08
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 3.50

Inst ID: VOAMS6.i
 Quant Type: ISTD
 Cal File: f26681.d
 QC Sample: BLANK
 Compound Sublist: all.sub

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume

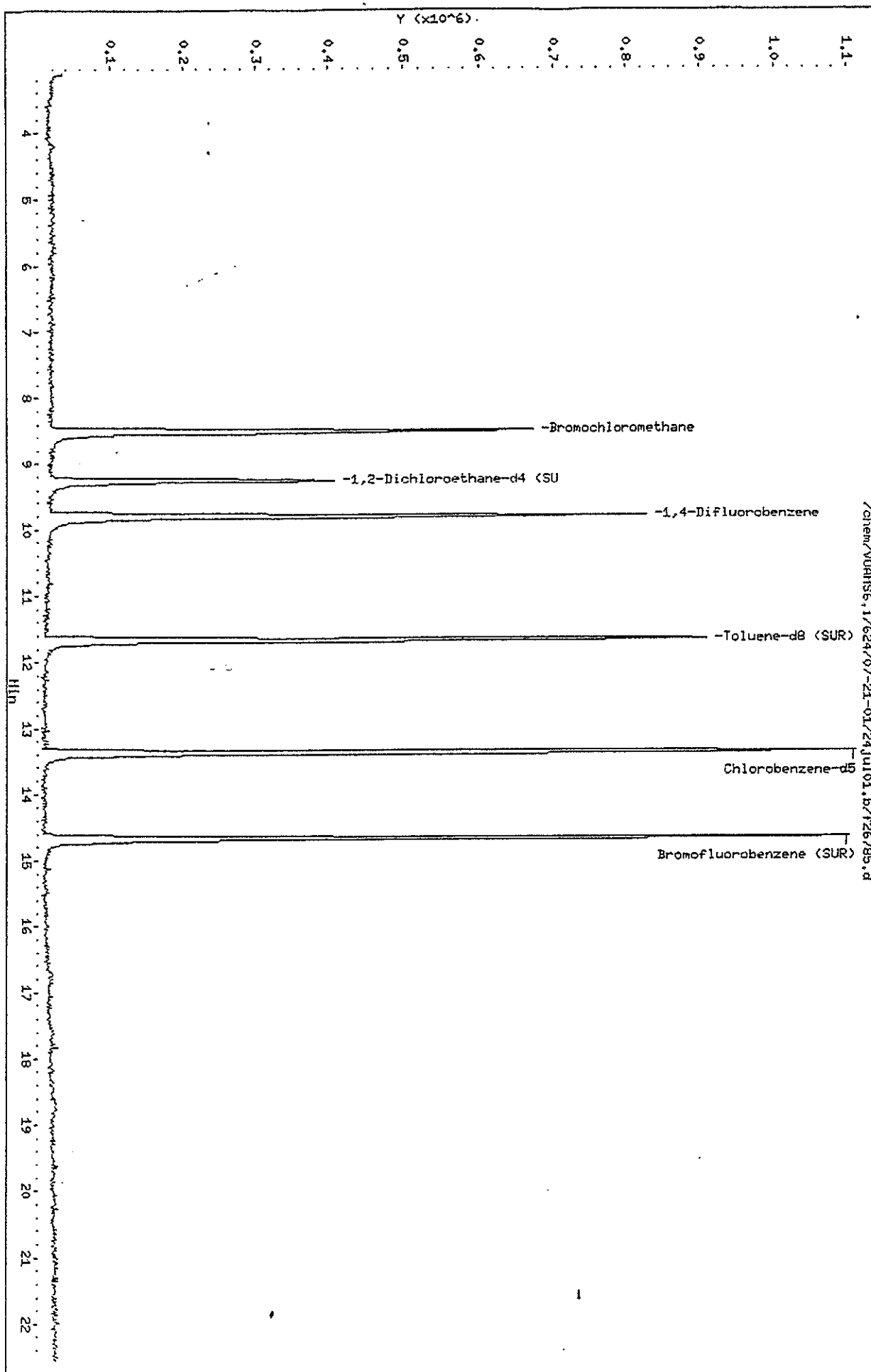
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*****	***		**	*****	*****	*****	*****	*****
* 2 Bromochloromethane	128	8.502	8.518	(1.000)	440645	30.0000		
\$ 16 1,2-Dichloroethane-d4 (SUR)	104	9.256	9.272	(0.944)	100314	30.0698		30
* 19 1,4-Difluorobenzene	114	9.803	9.819	(1.000)	1523855	30.0000		
\$ 37 Toluene-d8 (SUR)	98	11.651	11.668	(0.872)	1268196	29.3765		29
* 32 Chlorobenzene-d5	117	13.366	13.383	(1.000)	1302684	30.0000		
\$ 41 Bromofluorobenzene (SUR)	174	14.667	14.669	(1.097)	518089	27.5171		28

Data File: /chem/VOAHS6.1/624/07-21-01/24jul01.b/f26785.d
Date: 24-JUL-2001 15:05

Client ID:
Sample Info: FV205A
Purge Volume: 5.0
Column phase: DB624

Instrument: VOAHS6.1
Operator: VOAHS 6
Column diameter: 0.53



Calibration Summary

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

LAB FILE ID:	RRF5: D21117	RRF20: D21119	RRF50: D21122		
	RRF100: D21121	RRF200: D21120			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
=====	=====	=====	=====	=====	=====
Chloromethane	0.242	0.248	0.218	0.234	0.231
Bromomethane	0.273	0.257	0.231	0.251	0.236
Vinyl Chloride	0.291	0.301	0.271	0.291	0.287
Chloroethane	0.205	0.199	0.147	0.170	0.146
Methylene Chloride	0.334	0.320	0.290	0.313	0.302
Acetone	0.103	0.088	0.081	0.072	0.074
Carbon Disulfide	0.575	0.848	0.837	0.858	0.897
Trichlorofluoromethane	0.560	0.560	0.498	0.528	0.522
1,1-Dichloroethene	0.286	0.283	0.268	0.288	0.289
1,1-Dichloroethane	0.607	0.603	0.563	0.593	0.542
trans-1,2-Dichloroethene	0.319	0.316	0.295	0.314	0.311
cis-1,2-Dichloroethene	0.334	0.322	0.318	0.332	0.303
Chloroform	0.623	0.604	0.586	0.613	0.583
1,2-Dichloroethane	0.454	0.414	0.395	0.409	0.386
2-Butanone	0.023	0.033	0.036	0.036	0.032
1,1,1-Trichloroethane	0.533	0.533	0.520	0.552	0.539
Carbon Tetrachloride	0.466	0.457	0.450	0.474	0.476
Bromodichloromethane	0.589	0.603	0.612	0.653	0.601
1,2-Dichloropropane	0.446	0.412	0.410	0.426	0.403
cis-1,3-Dichloropropene	0.519	0.538	0.535	0.556	0.528
Trichloroethene	0.440	0.398	0.390	0.411	0.396
Dibromochloromethane	0.527	0.661	0.671	0.758	0.740
1,1,2-Trichloroethane	0.409	0.449	0.443	0.474	0.461
Benzene	1.051	0.928	0.915	0.958	0.946
trans-1,3-Dichloropropene	0.564	0.633	0.629	0.697	0.696
2-Chloroethyl Vinyl Ether	0.095	0.147	0.180	0.182	0.180
Bromoform	0.345	0.462	0.487	0.553	0.519
4-Methyl-2-Pentanone	0.253	0.348	0.380	0.370	0.332
2-Hexanone	0.212	0.308	0.338	0.349	0.316
Tetrachloroethene	0.576	0.551	0.534	0.578	0.587
1,1,2,2-Tetrachloroethane	1.548	1.483	1.529	1.544	1.440
Toluene	1.322	1.327	1.285	1.390	1.417
Chlorobenzene	0.987	0.977	0.943	1.006	0.974
Ethylbenzene	0.470	0.478	0.465	0.495	0.474
Styrene	0.767	0.884	0.869	0.959	0.935
Xylene (Total)	0.539	0.561	0.536	0.581	0.574
Ethyl Ether	0.170	0.245	0.237	0.237	0.236
Acrolein	0.035	0.037	0.040	0.036	0.038
Freon TF	0.454	0.624	0.583	0.565	0.558

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

LAB FILE ID:	RRF5: D21117	RRF20: D21119	RRF50: D21122		
	RRF100: D21121	RRF200: D21120			
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
Isopropanol					
Acetonitrile	0.016	0.024	0.025	0.024	0.025
TBA	0.017	0.025	0.027	0.025	0.023
Acrylonitrile	0.082	0.088	0.093	0.085	0.088
MTBE	0.552	0.806	0.798	0.802	0.782
Hexane					
DIPE	0.970	1.373	1.350	1.391	1.290
Ethyl Acetate	0.327	0.443	0.507	0.481	0.438
Vinyl Acetate	0.986	1.403	1.417	1.428	1.334
Tetrahydrofuran					
Cyclohexane	0.428	0.563	0.571	0.570	0.597
Isobutanol					
Isopropyl Acetate	0.525	0.765	0.846	0.831	0.729
n-Heptane					
n-Butanol					
Propyl Acetate	0.492	0.628	0.682	0.651	0.590
Butyl Acetate	0.620	0.971	1.023	1.068	0.934
1,2-Dibromoethane	0.586	0.675	0.688	0.743	0.733
1,3-Dichlorobenzene	1.506	1.476	1.476	1.513	1.424
1,4-Dichlorobenzene	1.695	1.593	1.555	1.591	1.566
1,2-Dichlorobenzene	1.410	1.361	1.337	1.386	1.338
Naphthalene	1.918	2.004	2.163	2.168	2.172
Methylnaphthalene (total)	1.040	1.101	1.159	1.014	1.134
Dimethylnaphthalene (total)	0.660	0.755	0.787	0.675	0.719
Dichlorodifluoromethane	0.430	0.461	0.402	0.448	0.446
1,1-Dichloropropene	0.514	0.505	0.496	0.523	0.521
1,2,4-Trichlorobenzene	1.100	1.108	1.108	1.153	1.130
Hexachlorobutadiene	0.748	0.800	0.747	0.798	0.757
1,4-Dioxane	0.003	0.003	0.003	0.003	0.003
Methyl Acrylate					
1,1,1,2-Tetrachloroethane	0.430	0.483	0.484	0.525	0.501
1,2,3-Trichlorobenzene	1.001	1.021	1.009	1.050	1.042
1,2,3-Trichloropropane	1.159	1.162	1.197	1.178	1.109
1,2,4-Trimethylbenzene	2.294	2.304	2.319	2.327	2.239
1,2-Dibromo-3-chloropropane	0.285	0.322	0.347	0.338	0.339
1,3,5-Trimethylbenzene	2.272	2.298	2.324	2.331	2.258
1,3-Dichloropropane	0.777	0.797	0.781	0.831	0.816
2,2-Dichloropropane	0.540	0.508	0.477	0.506	0.445
2-Chlorotoluene	2.390	2.365	2.391	2.444	2.349

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

LAB FILE ID:	RRF5: D21117 RRF100: D21121	RRF20: D21119 RRF200: D21120	RRF50: D21122		
COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200
=====	=====	=====	=====	=====	=====
4-Chlorotoluene	2.472	2.416	2.401	2.480	2.427
Bromobenzene	0.914	0.919	0.923	0.948	0.911
Bromochloromethane	0.202	0.198	0.199	0.209	0.189
Dibromomethane	0.336	0.333	0.326	0.333	0.316
Isopropylbenzene	1.558	1.659	1.580	1.698	1.623
n-Butylbenzene	2.699	2.716	2.723	2.802	2.696
n-Propylbenzene	3.559	3.546	3.560	3.644	3.279
p-Isopropyltoluene	2.626	2.623	2.624	2.677	2.546
sec-Butylbenzene	3.374	3.400	3.420	3.491	3.229
tert-Butylbenzene	2.448	2.376	2.388	2.423	2.298
Allyl chloride					
Benzyl chloride	1.073	1.564	1.542	1.638	1.682
Epichlorohydrin					
Isoprene	0.237	0.339	0.335	0.342	0.358
Methyl methacrylate	0.174	0.279	0.306	0.300	0.264
n-Pentane	0.046	0.064	0.057	0.057	0.062
Allyl alcohol					
2-Octanol					
2-Octanone					
Ethyl Acrylate					
Butyl Acrylate					
Butyl Methacrylate					
Ethyl methacrylate					
Ethanol					
Methyl Acetate	0.211	0.315	0.316	0.295	0.303
Methyl Cyclohexane	0.383	0.519	0.529	0.524	0.544
Cyclohexanone					
p-Ethyltoluene					
1,4-Diethylbenzene					
1,2,4,5-Tetramethylbenzene					
Propylene Oxide					
Camphene (total)					
Camphor					
Amyl Acetate					
2-Methylnaphthalene					
1-Chlorohexane					
a-methylstyrene	1.128	1.095	1.130	1.108	1.180
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.414	0.398	0.374	0.373	0.346

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

LAB FILE ID:		RRF5: D21117	RRF20: D21119	RRF50: D21122		
		RRF100: D21121	RRF200: D21120			
COMPOUND		RRF5	RRF20	RRF50	RRF100	RRF200
=====		=====	=====	=====	=====	=====
Toluene-d8 (SUR)_____		1.246	1.229	1.176	1.224	1.210
Bromofluorobenzene (SUR)_____		1.018	0.962	0.947	0.959	0.886

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Chloromethane	AVRG	0.23472808	4.8**
Bromomethane	AVRG	0.24958648	6.9*
Vinyl Chloride	AVRG	0.28825497	3.8*
Chloroethane	AVRG	0.17351528	16.2*
Methylene Chloride	AVRG	0.31171056	5.5*
Acetone	AVRG	0.08369021	15.0*
Carbon Disulfide	AVRG	0.80314954	16.1*
Trichlorofluoromethane	AVRG	0.53383345	4.9*
1,1-Dichloroethene	AVRG	0.28273546	3.0*
1,1-Dichloroethane	AVRG	0.58160423	4.9**
trans-1,2-Dichloroethene	AVRG	0.31097401	3.0*
cis-1,2-Dichloroethene	AVRG	0.32174053	3.8*
Chloroform	AVRG	0.60181044	2.9*
1,2-Dichloroethane	AVRG	0.41146205	6.3*
2-Butanone	AVRG	0.03221935	16.2*
1,1,1-Trichloroethane	AVRG	0.53553812	2.2*
Carbon Tetrachloride	AVRG	0.46462015	2.4*
Bromodichloromethane	AVRG	0.61175902	4.0*
1,2-Dichloropropane	AVRG	0.41949207	4.1*
cis-1,3-Dichloropropene	AVRG	0.53496861	2.6*
Trichloroethene	AVRG	0.40687745	5.0*
Dibromochloromethane	AVRG	0.67131246	13.6*
1,1,2-Trichloroethane	AVRG	0.44733197	5.5*
Benzene	AVRG	0.95965255	5.6*
trans-1,3-Dichloropropene	AVRG	0.64387064	8.6*
2-Chloroethyl Vinyl Ether	AVRG	0.15713156	23.9*
Bromoform	AVRG	0.47325439	16.8**
4-Methyl-2-Pentanone	AVRG	0.33639556	14.9*
2-Hexanone	AVRG	0.30458881	17.9*
Tetrachloroethene	AVRG	0.56544500	3.8*
1,1,2,2-Tetrachloroethane	AVRG	1.50867262	3.1**
Toluene	AVRG	1.34805015	4.0*
Chlorobenzene	AVRG	0.97735022	2.3**
Ethylbenzene	AVRG	0.47650289	2.4*
Styrene	AVRG	0.88291657	8.4*
Xylene (Total)	AVRG	0.55824582	3.6*
Ethyl Ether	AVRG	0.22529512	13.8*
Acrolein	AVRG	0.03738009	4.7*
Freon TF	AVRG	0.55653351	11.3*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Isopropanol	AVRG		
Acetonitrile	AVRG	0.02261752	16.0*
TBA	AVRG	0.02366150	16.3*
Acrylonitrile	AVRG	0.08727525	4.4*
MTBE	AVRG	0.74834879	14.7*
Hexane	AVRG		
DIPE	AVRG	1.27478094	13.7*
Ethyl Acetate	AVRG	0.43919841	15.6*
Vinyl Acetate	AVRG	1.31366143	14.2*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	0.54588602	12.2*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.73924354	17.4*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.60866433	12.1*
Butyl Acetate	AVRG	0.92338081	19.2*
1,2-Dibromoethane	AVRG	0.68519894	9.1*
1,3-Dichlorobenzene	AVRG	1.47907987	2.4*
1,4-Dichlorobenzene	AVRG	1.59993695	3.5*
1,2-Dichlorobenzene	AVRG	1.36627159	2.3*
Naphthalene	AVRG	2.08524593	5.6*
Methylnaphthalene (total)	AVRG	1.08970298	5.6*
Dimethylnaphthalene (total)	AVRG	0.71937404	7.4*
Dichlorodifluoromethane	AVRG	0.43741960	5.2*
1,1-Dichloropropene	AVRG	0.51184701	2.2*
1,2,4-Trichlorobenzene	AVRG	1.11988477	2.0*
Hexachlorobutadiene	AVRG	0.77020175	3.4*
1,4-Dioxane	AVRG	0.00289091	5.1*
Methyl Acrylate	AVRG		
1,1,1,2-Tetrachloroethane	AVRG	0.48488421	7.2*
1,2,3-Trichlorobenzene	AVRG	1.02458182	2.0*
1,2,3-Trichloropropane	AVRG	1.16095779	2.8*
1,2,4-Trimethylbenzene	AVRG	2.29661570	1.5*
1,2-Dibromo-3-chloropropane	AVRG	0.32640588	7.6*
1,3,5-Trimethylbenzene	AVRG	2.29665143	1.4*
1,3-Dichloropropane	AVRG	0.80037496	2.9*
2,2-Dichloropropane	AVRG	0.49519932	7.3*
2-Chlorotoluene	AVRG	2.38790578	1.5*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
4-Chlorotoluene	AVRG	2.43915871	1.4*
Bromobenzene	AVRG	0.92319019	1.6*
Bromochloromethane	AVRG	0.19911780	3.6*
Dibromomethane	AVRG	0.32876352	2.5*
Isopropylbenzene	AVRG	1.62356660	3.5*
n-Butylbenzene	AVRG	2.72750964	1.6*
n-Propylbenzene	AVRG	3.51772875	4.0*
p-Isopropyltoluene	AVRG	2.61907508	1.8*
sec-Butylbenzene	AVRG	3.38272142	2.8*
tert-Butylbenzene	AVRG	2.38673113	2.4*
Allyl chloride	AVRG		
Benzyl chloride	AVRG	1.49996874	16.3*
Epichlorohydrin	AVRG		
Isoprene	AVRG	0.32208301	15.0*
Methyl methacrylate	AVRG	0.26463264	20.2*
n-Pentane	AVRG	0.05719763	11.6*
Allyl alcohol	AVRG		
2-Octanol	AVRG		
2-Octanone	AVRG		
Ethyl Acrylate	AVRG		
Butyl Acrylate	AVRG		
Butyl Methacrylate	AVRG		
Ethyl methacrylate	AVRG		
Ethanol	AVRG		
Methyl Acetate	AVRG	0.28814424	15.2*
Methyl Cyclohexane	AVRG	0.49992971	13.2*
Cyclohexanone	AVRG		
p-Ethyltoluene	AVRG		
1,4-Diethylbenzene	AVRG		
1,2,4,5-Tetramethylbenzene	AVRG		
Propylene Oxide	AVRG		
Camphene (total)	AVRG		
Camphor	AVRG		
Amyl Acetate	AVRG		
2-Methylnaphthalene	AVRG		
1-Chlorohexane	AVRG		
a-methylstyrene	AVRG	1.12836312	2.9*
=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	AVRG	0.38108984	6.8*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Calibration Time(s): 1307 1606

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Toluene-d8 (SUR)	AVRG	1.21693907	2.1*
Bromofluorobenzene (SUR)	AVRG	0.95457485	4.9*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS4 Calibration Date: 07/21/01 Time: 0708
Lab File ID: D21313 Init. Calib. Date(s): 07/13/01 07/13/01
Heated Purge: (Y/N) N Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.235	0.248	0.1	-5.5	50.0
Bromomethane	0.250	0.266		-6.4	50.0
Vinyl Chloride	0.288	0.268		6.9	20.0
Chloroethane	0.173	0.165		4.6	50.0
Methylene Chloride	0.312	0.292		6.4	50.0
Acetone	0.084	0.051		39.3	50.0
Carbon Disulfide	0.803	0.829		-3.2	50.0
Trichlorofluoromethane	0.534	0.515		3.6	50.0
1,1-Dichloroethene	0.283	0.244		13.8	20.0
1,1-Dichloroethane	0.582	0.577	0.1	0.8	50.0
trans-1,2-Dichloroethene	0.311	0.296		4.8	50.0
cis-1,2-Dichloroethene	0.322	0.325		-0.9	50.0
Chloroform	0.602	0.626		-4.0	20.0
1,2-Dichloroethane	0.412	0.411		0.2	50.0
2-Butanone	0.032	0.028		12.5	50.0
1,1,1-Trichloroethane	0.535	0.527		1.5	50.0
Carbon Tetrachloride	0.465	0.468		-0.6	50.0
Bromodichloromethane	0.612	0.630		-2.9	50.0
1,2-Dichloropropane	0.419	0.394		6.0	20.0
cis-1,3-Dichloropropene	0.535	0.537		-0.4	50.0
Trichloroethene	0.407	0.391		3.9	50.0
Dibromochloromethane	0.671	0.638		4.9	50.0
1,1,2-Trichloroethane	0.447	0.405		9.4	50.0
Benzene	0.960	0.897		6.6	50.0
trans-1,3-Dichloropropene	0.644	0.604		6.2	50.0
2-Chloroethyl Vinyl Ether	0.157	0.135		14.0	50.0
Bromoform	0.473	0.442	0.1	6.6	50.0
4-Methyl-2-Pentanone	0.337	0.304		9.8	50.0
2-Hexanone	0.305	0.255		16.4	50.0
Tetrachloroethene	0.565	0.536		5.1	50.0
1,1,2,2-Tetrachloroethane	1.509	1.337	0.3	11.4	50.0
Toluene	1.348	1.314		2.5	20.0
Chlorobenzene	0.977	0.983	0.3	-0.6	50.0
Ethylbenzene	0.476	0.472		0.8	20.0
Styrene	0.883	0.931		-5.4	50.0
Xylene (Total)	0.558	0.570		-2.2	50.0
Ethyl Ether	0.225	0.203		9.8	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date: 07/21/01 Time: 0708

Lab File ID: D21313

Init. Calib. Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.037	0.023		37.8	50.0
Freon TF	0.557	0.542		2.7	50.0
Isopropanol					50.0
Acetonitrile	0.023	0.019		17.4	50.0
TBA	0.023	0.019		17.4	50.0
Acrylonitrile	0.087	0.071		18.4	50.0
MTBE	0.748	0.712		4.8	50.0
Hexane					50.0
DIPE	1.275	1.275		0.0	50.0
Ethyl Acetate	0.439	0.369		15.9	50.0
Vinyl Acetate	1.314	1.142		13.1	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.546	0.548		-0.4	50.0
Isobutanol					50.0
Isopropyl Acetate	0.739	0.664		10.1	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.609	0.528		13.3	50.0
Butyl Acetate	0.923	0.828		10.3	50.0
1,2-Dibromoethane	0.685	0.615		10.2	50.0
1,3-Dichlorobenzene	1.479	1.639		-10.8	50.0
1,4-Dichlorobenzene	1.600	1.639		-2.4	50.0
1,2-Dichlorobenzene	1.366	1.375		-0.6	50.0
Naphthalene	2.085	1.773		15.0	50.0
Methylnaphthalene (total)	1.090	0.886		18.7	50.0
Dimethylnaphthalene (total)	0.719	0.554		22.9	50.0
Dichlorodifluoromethane	0.437	0.411		5.9	50.0
1,1-Dichloropropene	0.512	0.500		2.3	50.0
1,2,4-Trichlorobenzene	1.120	1.116		0.4	50.0
Hexachlorobutadiene	0.770	0.815		-5.8	50.0
1,4-Dioxane	0.003	0.002		33.3	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.485	0.489		-0.8	50.0
1,2,3-Trichlorobenzene	1.025	0.987		3.7	50.0
1,2,3-Trichloropropane	1.161	1.025		11.7	50.0
1,2,4-Trimethylbenzene	2.297	2.281		0.7	50.0
1,2-Dibromo-3-chloropropane	0.326	0.268		17.8	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date: 07/21/01 Time: 0708

Lab File ID: D21313

Init. Calib. Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	2.297	2.316		-0.8	50.0
1,3-Dichloropropane	0.800	0.731		8.6	50.0
2,2-Dichloropropane	0.495	0.522		-5.4	50.0
2-Chlorotoluene	2.388	2.463		-3.1	50.0
4-Chlorotoluene	2.439	2.390		2.0	50.0
Bromobenzene	0.923	0.889		3.7	50.0
Bromochloromethane	0.199	0.191		4.0	50.0
Dibromomethane	0.329	0.324		1.5	50.0
Isopropylbenzene	1.624	1.643		-1.2	50.0
n-Butylbenzene	2.727	2.828		-3.7	50.0
n-Propylbenzene	3.518	3.695		-5.0	50.0
p-Isopropyltoluene	2.619	2.717		-3.7	50.0
sec-Butylbenzene	3.383	3.397		-0.4	50.0
tert-Butylbenzene	2.387	2.379		0.3	50.0
Allyl chloride					50.0
Benzyl chloride	1.500	1.592		-6.1	50.0
Epichlorohydrin					50.0
Isoprene	0.322	0.299		7.1	50.0
Methyl methacrylate	0.265	0.261		1.5	50.0
n-Pentane	0.057	0.053		7.0	50.0
Allyl alcohol					50.0
2-Octanol					50.0
2-Octanone					50.0
Ethyl Acrylate					50.0
Butyl Acrylate					50.0
Butyl Methacrylate					50.0
Ethyl methacrylate					50.0
Ethanol					50.0
Methyl Acetate	0.288	0.252		12.5	50.0
Methyl Cyclohexane	0.500	0.520		-4.0	50.0
Cyclohexanone					50.0
p-Ethyltoluene					50.0
1,4-Diethylbenzene					50.0
1,2,4,5-Tetramethylbenzene					50.0
Propylene Oxide					50.0
Camphene (total)					50.0
Camphor					50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8260B

Instrument ID: VOAMS4 Calibration Date: 07/24/01 Time: 1050
Lab File ID: D21396 Init. Calib. Date(s): 07/13/01 07/13/01
Heated Purge: (Y/N) N Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.235	0.202	0.1	14.0	50.0
Bromomethane	0.250	0.220		12.0	50.0
Vinyl Chloride	0.288	0.259		10.1	20.0
Chloroethane	0.173	0.178		-2.9	50.0
Methylene Chloride	0.312	0.288		7.7	50.0
Acetone	0.084	0.060		28.6	50.0
Carbon Disulfide	0.803	0.774		3.6	50.0
Trichlorofluoromethane	0.534	0.518		3.0	50.0
1,1-Dichloroethene	0.283	0.265		6.4	20.0
1,1-Dichloroethane	0.582	0.561	0.1	3.6	50.0
trans-1,2-Dichloroethene	0.311	0.293		5.8	50.0
cis-1,2-Dichloroethene	0.322	0.320		0.6	50.0
Chloroform	0.602	0.599		0.5	20.0
1,2-Dichloroethane	0.412	0.414		-0.5	50.0
2-Butanone	0.032	0.032		0.0	50.0
1,1,1-Trichloroethane	0.535	0.559		-4.5	50.0
Carbon Tetrachloride	0.465	0.474		-1.9	50.0
Bromodichloromethane	0.612	0.590		3.6	50.0
1,2-Dichloropropane	0.419	0.408		2.6	20.0
cis-1,3-Dichloropropene	0.535	0.541		-1.1	50.0
Trichloroethene	0.407	0.398		2.2	50.0
Dibromochloromethane	0.671	0.612		8.8	50.0
1,1,2-Trichloroethane	0.447	0.416		6.9	50.0
Benzene	0.960	0.892		7.1	50.0
trans-1,3-Dichloropropene	0.644	0.615		4.5	50.0
2-Chloroethyl Vinyl Ether	0.157	0.156		0.6	50.0
Bromoform	0.473	0.411	0.1	13.1	50.0
4-Methyl-2-Pentanone	0.337	0.335		0.6	50.0
2-Hexanone	0.305	0.278		8.8	50.0
Tetrachloroethene	0.565	0.502		11.2	50.0
1,1,2,2-Tetrachloroethane	1.509	1.389	0.3	8.0	50.0
Toluene	1.348	1.273		5.6	20.0
Chlorobenzene	0.977	0.943	0.3	3.5	50.0
Ethylbenzene	0.476	0.461		3.2	20.0
Styrene	0.883	0.889		-0.7	50.0
Xylene (Total)	0.558	0.555		0.5	50.0
Ethyl Ether	0.225	0.220		2.2	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS4

Calibration Date: 07/24/01 Time: 1050

Lab File ID: D21396

Init. Calib. Date(s): 07/13/01 07/13/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.037	0.025		32.4	50.0
Freon TF	0.557	0.587		-5.4	50.0
Isopropanol					50.0
Acetonitrile	0.023	0.020		13.0	50.0
TBA	0.023	0.021		8.7	50.0
Acrylonitrile	0.087	0.076		12.6	50.0
MTBE	0.748	0.772		-3.2	50.0
Hexane					50.0
DIPE	1.275	1.334		-4.6	50.0
Ethyl Acetate	0.439	0.428		2.5	50.0
Vinyl Acetate	1.314	1.184		9.9	50.0
Tetrahydrofuran					50.0
Cyclohexane	0.546	0.556		-1.8	50.0
Isobutanol					50.0
Isopropyl Acetate	0.739	0.752		-1.8	50.0
n-Heptane					50.0
n-Butanol					50.0
Propyl Acetate	0.609	0.568		6.7	50.0
Butyl Acetate	0.923	0.886		4.0	50.0
1,2-Dibromoethane	0.685	0.646		5.7	50.0
1,3-Dichlorobenzene	1.479	1.373		7.2	50.0
1,4-Dichlorobenzene	1.600	1.677		-4.8	50.0
1,2-Dichlorobenzene	1.366	1.372		-0.4	50.0
Naphthalene	2.085	2.030		2.6	50.0
Methylnaphthalene (total)	1.090	1.092		-0.2	50.0
Dimethylnaphthalene (total)	0.719	0.684		4.9	50.0
Dichlorodifluoromethane	0.437	0.343		21.5	50.0
1,1-Dichloropropene	0.512	0.510		0.4	50.0
1,2,4-Trichlorobenzene	1.120	1.065		4.9	50.0
Hexachlorobutadiene	0.770	0.713		7.4	50.0
1,4-Dioxane	0.003	0.002		33.3	50.0
Methyl Acrylate					50.0
1,1,1,2-Tetrachloroethane	0.485	0.472		2.7	50.0
1,2,3-Trichlorobenzene	1.025	0.994		3.0	50.0
1,2,3-Trichloropropane	1.161	1.133		2.4	50.0
1,2,4-Trimethylbenzene	2.297	2.258		1.7	50.0
1,2-Dibromo-3-chloropropane	0.326	0.303		7.0	50.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8260B

Instrument ID: VOAMS4 Calibration Date: 07/24/01 Time: 1050
Lab File ID: D21396 Init. Calib. Date(s): 07/13/01 07/13/01
Heated Purge: (Y/N) N Init. Calib. Times: 1307 1606

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,3,5-Trimethylbenzene	2.297	2.253		1.9	50.0
1,3-Dichloropropane	0.800	0.766		4.2	50.0
2,2-Dichloropropane	0.495	0.512		-3.4	50.0
2-Chlorotoluene	2.388	2.419		-1.3	50.0
4-Chlorotoluene	2.439	2.389		2.0	50.0
Bromobenzene	0.923	0.870		5.7	50.0
Bromochloromethane	0.199	0.190		4.5	50.0
Dibromomethane	0.329	0.318		3.3	50.0
Isopropylbenzene	1.624	1.617		0.4	50.0
n-Butylbenzene	2.727	2.739		-0.4	50.0
n-Propylbenzene	3.518	3.614		-2.7	50.0
p-Isopropyltoluene	2.619	2.598		0.8	50.0
sec-Butylbenzene	3.383	3.418		-1.0	50.0
tert-Butylbenzene	2.387	2.350		1.6	50.0
Allyl chloride					50.0
Benzyl chloride	1.500	1.600		-6.7	50.0
Epichlorohydrin					50.0
Isoprene	0.322	0.322		0.0	50.0
Methyl methacrylate	0.265	0.266		-0.4	50.0
n-Pentane	0.057	0.063		-10.5	50.0
Allyl alcohol					50.0
2-Octanol					50.0
2-Octanone					50.0
Ethyl Acrylate					50.0
Butyl Acrylate					50.0
Butyl Methacrylate					50.0
Ethyl methacrylate					50.0
Ethanol					50.0
Methyl Acetate	0.288	0.308		-6.9	50.0
Methyl Cyclohexane	0.500	0.536		-7.2	50.0
Cyclohexanone					50.0
p-Ethyltoluene					50.0
1,4-Diethylbenzene					50.0
1,2,4,5-Tetramethylbenzene					50.0
Propylene Oxide					50.0
Camphene (total)					50.0
Camphor					50.0

VOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

LAB FILE ID:	RRF5: F26676	RRF10: F26678	RRF20: F26679		
	RRF50: F26680	RRF200: F26681			
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Chloromethane	0.333	0.332	0.330	0.355	0.354
Bromomethane	0.745	0.739	0.735	0.742	0.787
Vinyl Chloride	0.416	0.452	0.467	0.506	0.491
Chloroethane	0.284	0.281	0.292	0.295	0.285
Methylene Chloride	1.016	1.021	1.004	0.996	0.976
Acetone	0.079	0.117	0.126	0.121	0.119
Carbon Disulfide	2.224	1.879	2.385	2.520	2.617
Trichlorofluoromethane	0.825	1.016	1.163	1.302	1.494
1,1-Dichloroethene	0.907	0.985	1.000	0.988	0.947
1,1-Dichloroethane	1.240	1.366	1.393	1.370	1.374
trans-1,2-Dichloroethene	0.993	1.027	1.101	1.066	1.040
cis-1,2-Dichloroethene	1.099	1.081	1.131	1.150	1.136
Chloroform	2.020	2.135	2.146	2.177	2.166
1,2-Dichloroethane	0.356	0.342	0.359	0.346	0.348
2-Butanone	0.054	0.028	0.068	0.067	0.064
1,1,1-Trichloroethane	1.635	1.701	1.760	1.727	1.707
Carbon Tetrachloride	1.592	1.646	1.718	1.684	1.697
Bromodichloromethane	0.556	0.595	0.612	0.633	0.651
1,2-Dichloropropane	0.201	0.205	0.211	0.214	0.212
cis-1,3-Dichloropropene	0.332	0.354	0.379	0.389	0.400
Trichloroethene	0.337	0.354	0.360	0.362	0.364
Dibromochloromethane	0.619	0.697	0.729	0.760	0.816
1,1,2-Trichloroethane	0.292	0.306	0.318	0.325	0.326
Benzene	0.586	0.590	0.607	0.600	0.588
trans-1,3-Dichloropropene	0.350	0.357	0.393	0.424	0.453
2-Chloroethyl Vinyl Ether	0.107	0.107	0.113	0.120	0.133
Bromoform	0.307	0.341	0.385	0.427	0.467
4-Methyl-2-Pentanone	0.125	0.115	0.113	0.125	0.133
2-Hexanone	0.071	0.082	0.092	0.091	0.100
Tetrachloroethene	0.390	0.405	0.408	0.422	0.422
1,1,2,2-Tetrachloroethane	0.573	0.592	0.594	0.636	0.650
Toluene	0.865	0.910	0.942	0.958	0.991
Chlorobenzene	0.774	0.813	0.826	0.872	0.842
Ethylbenzene	0.314	0.307	0.339	0.330	0.328
Styrene	0.572	0.612	0.677	0.738	0.742
Xylene (Total)	0.380	0.397	0.424	0.427	0.437
Ethyl Ether	0.397	0.393	0.390	0.392	0.389
Acrolein	0.034	0.039	0.037	0.040	0.041
Freon TF	2.253	2.330	2.335	2.342	2.262

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

LAB FILE ID:	RRF5: F26676 RRF50: F26680	RRF10: F26678 RRF200: F26681	RRF20: F26679		
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
Isopropanol					
Acetonitrile	0.020	0.026	0.027	0.027	0.028
TBA	0.038	0.035	0.040	0.040	0.042
Acrylonitrile	0.091	0.095	0.099	0.110	0.118
MTBE	1.572	1.675	1.730	1.766	1.777
Hexane	0.372	0.282	0.286	0.276	0.275
DIPE	1.445	1.472	1.513	1.574	1.580
Ethyl Acetate	0.425	0.500	0.502	0.540	0.589
Vinyl Acetate	1.504	1.418	1.437	1.609	1.600
Tetrahydrofuran					
Cyclohexane	0.628	0.670	0.700	0.716	0.722
Isobutanol					
Isopropyl Acetate	0.249	0.245	0.266	0.286	0.301
n-Heptane					
n-Butanol					
Propyl Acetate	0.229	0.222	0.219	0.219	0.222
Butyl Acetate	0.236	0.261	0.284	0.300	0.325
1,2-Dibromoethane	0.611	0.653	0.703	0.714	0.735
1,3-Dichlorobenzene	0.557	0.606	0.613	0.642	0.664
1,4-Dichlorobenzene	0.673	0.705	0.747	0.765	0.766
1,2-Dichlorobenzene	0.586	0.625	0.635	0.655	0.676
Naphthalene	0.439	0.498	0.568	0.620	0.654
Methylnaphthalene (total)					
Dimethylnaphthalene (total)					
Dichlorodifluoromethane	1.216	1.181	1.182	1.277	1.243
1,4-Dioxane	0.002	0.002	0.002	0.002	0.002
n-Pentane	0.094	0.094	0.085	0.126	0.116
5-Methyl-2-Hexanone					
Isopropylbenzene	0.994	1.024	1.083	1.131	1.180
1,2,4-Trimethylbenzene	0.782	0.842	0.874	0.907	0.962
Cyclohexanone					
1,2,4-Trichlorobenzene	0.209	0.239	0.262	0.294	0.295
Methyl Methacrylate	0.063	0.064	0.066	0.072	0.075
Allyl Alcohol					
Epichlorohydrin	0.015	0.016	0.017	0.018	0.020
Allyl Chloride					
Benzyl Chloride	0.422	0.447	0.517	0.573	0.644
Isoprene	0.551	0.581	0.585	0.600	0.597
1,1,1,2-Tetrachloroethane	0.405	0.421	0.443	0.471	0.467

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

LAB FILE ID:	RRF5: F26676	RRF10: F26678	RRF20: F26679		
	RRF50: F26680	RRF200: F26681			
COMPOUND	RRF5	RRF10	RRF20	RRF50	RRF200
=====	=====	=====	=====	=====	=====
Camphene (total)	0.168	0.179	0.187	0.186	0.179
Camphor	0.026	0.032	0.036	0.036	0.030
1,3,5-Trimethylbenzene	0.746	0.812	0.885	0.857	0.902
1,2,3-Trichlorobenzene	0.163	0.185	0.200	0.226	0.233
n-Butylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
p-Isopropyltoluene					
n-Propylbenzene					
m+p-Ethyltoluene					
o-Ethyltoluene					
Methyl Acetate	0.365	0.318	0.372	0.370	0.391
Methyl cyclohexane	0.221	0.232	0.239	0.247	0.241
1,2-Dibromo-3-chloropropane	0.092	0.097	0.106	0.112	0.119
Cyclohexene					
1,2-Dichlorotrifluoroethane					
n-Propanol					
3-Methyl-1-Pentyn-3-ol					
Propylene Oxide					
Ethanol					
Chlorotrifluoroethane					
Dichlorofluoromethane					
Ethylene Oxide					
Methyl Formate					
Isobutyraldehyde					
Amyl Acetate					
1,2,3-Trichloropropane	1.048	1.165	1.200	1.142	1.025
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.067	0.068	0.064	0.065	0.064
Toluene-d8 (SUR)	0.952	1.004	0.988	1.009	1.018
Bromofluorobenzene (SUR)	0.432	0.438	0.419	0.431	0.448

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Chloromethane	AVRG	0.34073710	3.7*
Bromomethane	AVRG	0.74974125	2.8*
Vinyl Chloride	AVRG	0.46648972	7.5*
Chloroethane	AVRG	0.28740800	2.0*
Methylene Chloride	AVRG	1.00255432	1.8*
Acetone	AVRG	0.11270060	16.9*
Carbon Disulfide	AVRG	2.32504282	12.5*
Trichlorofluoromethane	AVRG	1.16031202	22.2*
1,1-Dichloroethene	AVRG	0.96543954	4.0*
1,1-Dichloroethane	AVRG	1.34859643	4.6*
trans-1,2-Dichloroethene	AVRG	1.04553360	3.9*
cis-1,2-Dichloroethene	AVRG	1.11945719	2.5*
Chloroform	AVRG	2.12866132	3.0*
1,2-Dichloroethane	AVRG	0.35032205	1.9*
2-Butanone	AVRG	0.05658488	29.4*
1,1,1-Trichloroethane	AVRG	1.70608090	2.7*
Carbon Tetrachloride	AVRG	1.66740555	3.0*
Bromodichloromethane	AVRG	0.60943937	6.0*
1,2-Dichloropropane	AVRG	0.20863661	2.6*
cis-1,3-Dichloropropene	AVRG	0.37083671	7.4*
Trichloroethene	AVRG	0.35556339	3.1*
Dibromochloromethane	AVRG	0.72427462	10.2*
1,1,2-Trichloroethane	AVRG	0.31329678	4.6*
Benzene	AVRG	0.59447734	1.5*
trans-1,3-Dichloropropene	AVRG	0.39530626	11.0*
2-Chloroethyl Vinyl Ether	AVRG	0.11620082	9.5*
Bromoform	AVRG	0.38554923	16.7*
4-Methyl-2-Pentanone	AVRG	0.12232515	6.8*
2-Hexanone	AVRG	0.08717714	12.9*
Tetrachloroethene	AVRG	0.40933563	3.3*
1,1,2,2-Tetrachloroethane	AVRG	0.60888223	5.4*
Toluene	AVRG	0.93319938	5.1*
Chlorobenzene	AVRG	0.82554780	4.4*
Ethylbenzene	AVRG	0.32352830	4.0*
Styrene	AVRG	0.66846406	11.3*
Xylene (Total)	AVRG	0.41315492	5.7*
Ethyl Ether	AVRG	0.39239528	0.8*
Acrolein	AVRG	0.03841302	7.3*
Freon TF	AVRG	2.30476613	1.9*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Isopropanol	AVRG		
Acetonitrile	AVRG	0.02570810	13.6*
TBA	AVRG	0.03878877	6.5*
Acrylonitrile	AVRG	0.10279681	10.7*
MTBE	AVRG	1.70381771	4.9*
Hexane	AVRG	0.29797152	13.9*
DIPE	AVRG	1.51684635	4.0*
Ethyl Acetate	AVRG	0.51109573	11.8*
Vinyl Acetate	AVRG	1.51361604	5.9*
Tetrahydrofuran	AVRG		
Cyclohexane	AVRG	0.68726941	5.6*
Isobutanol	AVRG		
Isopropyl Acetate	AVRG	0.26945715	8.8*
n-Heptane	AVRG		
n-Butanol	AVRG		
Propyl Acetate	AVRG	0.22243022	1.8*
Butyl Acetate	AVRG	0.28103662	12.1*
1,2-Dibromoethane	AVRG	0.68322808	7.4*
1,3-Dichlorobenzene	AVRG	0.61644397	6.6*
1,4-Dichlorobenzene	AVRG	0.73151247	5.6*
1,2-Dichlorobenzene	AVRG	0.63541064	5.3*
Naphthalene	AVRG	0.55605432	15.8*
Methylnaphthalene (total)	AVRG		
Dimethylnaphthalene (total)	AVRG		
Dichlorodifluoromethane	AVRG	1.21973579	3.4**
1,4-Dioxane	AVRG	0.00177242	4.0*
n-Pentane	AVRG	0.10283906	16.9**
5-Methyl-2-Hexanone	AVRG		
Isopropylbenzene	AVRG	1.08238551	7.0*
1,2,4-Trimethylbenzene	AVRG	0.87362252	7.7**
Cyclohexanone	AVRG		
1,2,4-Trichlorobenzene	AVRG	0.25967270	14.1**
Methyl Methacrylate	AVRG	0.06810272	7.6*
Allyl Alcohol	AVRG		
Epichlorohydrin	AVRG	0.01723730	10.7**
Allyl Chloride	AVRG		
Benzyl Chloride	AVRG	0.52069789	17.5**
Isoprene	AVRG	0.58289224	3.4**
1,1,1,2-Tetrachloroethane	AVRG	0.44138272	6.4**

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Calibration Time(s): 1325 1608

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Camphene (total)	AVRG	0.17983778	4.3*
Camphor	AVRG	0.03199313	12.4*
1,3,5-Trimethylbenzene	AVRG	0.84040771	7.4**
1,2,3-Trichlorobenzene	AVRG	0.20140212	14.4*
n-Butylbenzene	AVRG		
sec-Butylbenzene	AVRG		
tert-Butylbenzene	AVRG		
p-Isopropyltoluene	AVRG		
n-Propylbenzene	AVRG		
m+p-Ethyltoluene	AVRG		
o-Ethyltoluene	AVRG		
Methyl Acetate	AVRG	0.36325535	7.4*
Methyl cyclohexane	AVRG	0.23597753	4.2*
1,2-Dibromo-3-chloropropane	AVRG	0.10530481	10.3**
Cyclohexene	AVRG		
1,2-Dichlorotrifluoroethane	AVRG		
n-Propanol	AVRG		
3-Methyl-1-Pentyn-3-ol	AVRG		
Propylene Oxide	AVRG		
Ethanol	AVRG		
Chlorotrifluoroethane	AVRG		
Dichlorofluoromethane	AVRG		
Ethylene Oxide	AVRG		
Methyl Formate	AVRG		
Isobutyraldehyde	AVRG		
Amyl Acetate	AVRG		
1,2,3-Trichloropropane	AVRG	1.11609484	6.8**
=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	AVRG	0.06567631	2.5*
Toluene-d8 (SUR)	AVRG	0.99418834	2.6*
Bromofluorobenzene (SUR)	AVRG	0.43359493	2.5*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 624

Instrument ID: VOAMS6 Calibration Date: 07/24/01 Time: 1318

Lab File ID: F26782 Init. Calib. Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N Init. Calib. Times: 1325 1608

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Chloromethane	0.341	0.305		10.6	104
Bromomethane	0.750	0.774		-3.2	86.0
Vinyl Chloride	0.466	0.422		9.4	96.0
Chloroethane	0.287	0.306		-6.6	62.0
Methylene Chloride	1.003	1.028		-2.5	39.5
Acetone	0.112	0.102		8.9	40.0
Carbon Disulfide	2.325	2.168		6.8	40.0
Trichlorofluoromethane	1.160	1.052		9.3	52.0
1,1-Dichloroethene	0.965	1.017		-5.4	49.5
1,1-Dichloroethane	1.349	1.399		-3.7	27.5
trans-1,2-Dichloroethene	1.045	1.087		-4.0	30.5
cis-1,2-Dichloroethene	1.119	1.156		-3.3	40.0
Chloroform	2.129	2.214		-4.0	32.5
1,2-Dichloroethane	0.350	0.371		-6.0	32.0
2-Butanone	0.056	0.063		-12.5	40.0
1,1,1-Trichloroethane	1.706	1.795		-5.2	25.0
Carbon Tetrachloride	1.667	1.750		-5.0	27.0
Bromodichloromethane	0.609	0.661		-8.5	34.5
1,2-Dichloropropane	0.209	0.218		-4.3	66.0
cis-1,3-Dichloropropene	0.371	0.391		-5.4	76.0
Trichloroethene	0.355	0.368		-3.7	33.5
Dibromochloromethane	0.724	0.734		-1.4	32.5
1,1,2-Trichloroethane	0.313	0.328		-4.8	29.0
Benzene	0.594	0.633		-6.6	36.0
trans-1,3-Dichloropropene	0.395	0.392		0.8	50.0
2-Chloroethyl Vinyl Ether	0.116	0.119		-2.6	124
Bromoform	0.385	0.360		6.5	29.0
4-Methyl-2-Pentanone	0.122	0.126		-3.3	40.0
2-Hexanone	0.087	0.097		-11.5	40.0
Tetrachloroethene	0.409	0.389		4.9	26.5
1,1,2,2-Tetrachloroethane	0.609	0.659		-8.2	39.5
Toluene	0.933	0.973		-4.3	25.5
Chlorobenzene	0.825	0.824		0.1	34.0
Ethylbenzene	0.324	0.329		-1.5	41.0
Styrene	0.668	0.660		1.2	40.0
Xylene (Total)	0.413	0.415		-0.5	40.0
Ethyl Ether	0.392	0.395		-0.8	40.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS6 Calibration Date: 07/24/01 Time: 1318
Lab File ID: F26782 Init. Calib. Date(s): 07/21/01 07/21/01
Heated Purge: (Y/N) N Init. Calib. Times: 1325 1608

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Acrolein	0.038	0.041		-7.9	40.0
Freon TF	2.304	2.448		-6.2	40.0
Isopropanol					40.0
Acetonitrile	0.026	0.005		80.8	40.0
TBA	0.039	0.037		5.1	40.0
Acrylonitrile	0.103	0.104		-1.0	40.0
MTBE	1.704	1.726		-1.3	40.0
Hexane	0.298	0.278		6.7	40.0
DIPE	1.517	1.527		-0.6	40.0
Ethyl Acetate	0.511	0.505		1.2	40.0
Vinyl Acetate	1.514	1.603		-5.9	40.0
Tetrahydrofuran					40.0
Cyclohexane	0.687	0.692		-0.7	40.0
Isobutanol					40.0
Isopropyl Acetate	0.269	0.281		-4.5	40.0
n-Heptane					40.0
n-Butanol					40.0
Propyl Acetate	0.222	0.240		-8.1	40.0
Butyl Acetate	0.281	0.294		-4.6	40.0
1,2-Dibromoethane	0.683	0.679		0.6	40.0
1,3-Dichlorobenzene	0.616	0.624		-1.3	27.0
1,4-Dichlorobenzene	0.731	0.676		7.5	37.0
1,2-Dichlorobenzene	0.635	0.589		7.2	37.0
Naphthalene	0.556	0.531		4.5	40.0
Methylnaphthalene (total)					40.0
Dimethylnaphthalene (total)					40.0
Dichlorodifluoromethane	1.220	0.830	0.01	32.0	40.0
1,4-Dioxane	0.002	0.002		0.0	40.0
n-Pentane	0.103	0.134	0.01	-30.1	40.0
5-Methyl-2-Hexanone			0.01		40.0
Isopropylbenzene	1.082	1.070		1.1	40.0
1,2,4-Trimethylbenzene	0.873	0.856	0.01	1.9	40.0
Cyclohexanone			0.0001		40.0
1,2,4-Trichlorobenzene	0.260	0.224	0.01	13.8	40.0
Methyl Methacrylate	0.068	0.065		4.4	40.0
Allyl Alcohol					40.0
Epichlorohydrin	0.017	0.018	0.01	-5.9	40.0

VOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 624

Instrument ID: VOAMS6

Calibration Date: 07/24/01 Time: 1318

Lab File ID: F26782

Init. Calib. Date(s): 07/21/01 07/21/01

Heated Purge: (Y/N) N

Init. Calib. Times: 1325 1608

COMPOUND	RRF	RRF20	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
Allyl Chloride			0.01		40.0
Benzyl Chloride	0.521	0.546	0.01	-4.8	40.0
Isoprene	0.583	0.602	0.01	-3.2	40.0
1,1,1,2-Tetrachloroethane	0.441	0.440	0.01	0.2	40.0
Camphene (total)	0.180	0.170		5.6	40.0
Camphor	0.032	0.037		-15.6	40.0
1,3,5-Trimethylbenzene	0.840	0.826	0.01	1.7	40.0
1,2,3-Trichlorobenzene	0.201	0.177		11.9	40.0
n-Butylbenzene					40.0
sec-Butylbenzene					40.0
tert-Butylbenzene					40.0
p-Isopropyltoluene					40.0
n-Propylbenzene					40.0
m+p-Ethyltoluene					40.0
o-Ethyltoluene					40.0
Methyl Acetate	0.363	0.388		-6.9	40.0
Methyl cyclohexane	0.236	0.247		-4.7	40.0
1,2-Dibromo-3-chloropropane	0.105	0.110	0.01	-4.8	40.0
Cyclohexene					40.0
1,2-Dichlorotrifluoroethane					40.0
n-Propanol					40.0
3-Methyl-1-Pentyn-3-ol					40.0
Propylene Oxide					40.0
Ethanol					40.0
Chlorotrifluoroethane					40.0
Dichlorofluoromethane					40.0
Ethylene Oxide					40.0
Methyl Formate					40.0
Isobutyraldehyde					40.0
Amyl Acetate					40.0
1,2,3-Trichloropropane	1.116	1.210	0.01	-8.4	40.0
=====	=====	=====	=====	=====	=====
1,2-Dichloroethane-d4 (SUR)	0.066	0.069		-4.5	
Toluene-d8 (SUR)	0.994	1.039		-4.5	
Bromofluorobenzene (SUR)	0.434	0.414		4.6	

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 8260B

Matrix: SOIL

Level: HIGH

Lab Job No: M838

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	DV202	100	97	97		0
02	DV205M	96	97	88		0
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

S1 = 1,2-Dichloroethane-d4 (61-137)
 S2 = Toluene-d8 (61-137)
 S3 = Bromofluorobenzene (61-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 8260B

Matrix: SOIL

Level: HIGH

Lab Job No: M838

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	289209	89	97	92		0
02	289205	90	94	89		0
03	289206	93	100	92		0
04	289210	90	93	89		0
05	289211	92	89	87		0
06	289212	93	92	84		0
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
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25						
26						
27						
28						
29						
30						

QC LIMITS

S1 = 1,2-Dichloroethane-d4 (61-137)
 S2 = Toluene-d8 (61-137)
 S3 = Bromofluorobenzene (61-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOLATILE SYSTEM MONITORING COMPOUND RECOVERY
METHOD 624

Matrix: WATER

Level: LOW

Lab Job No: M838

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	FV205A	100	98	92		0
02	289207	101	99	91		0
03	289208	99	102	90		0
04	289217	103	99	92		0
05						
06						
07						
08						
09						
10						
11						
12						
13						
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16						
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25						
26						
27						
28						
29						
30						

QC LIMITS

S1 = 1,2-Dichloroethane-d4 (72-122)
 S2 = Toluene-d8 (80-125)
 S3 = Bromofluorobenzene (65-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out



Spike Recovery Summary

VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8260B

Matrix: SOIL

Matrix Spike - Lab Sample No.: 289731

Level: HIGH

MS Sample from Lab Job No: M918

QA Batch: 2902

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	12000	0.00	12000	100	74-133
Trichloroethene	12000	0.00	12000	100	76-128
Benzene	12000	0.00	12000	100	77-125
Toluene	12000	0.00	12000	100	73-131
Chlorobenzene	12000	0.00	12000	100	79-129

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	12000	12000	100	0	40	74-133
Trichloroethene	12000	12000	100	0	40	76-128
Benzene	12000	12000	100	0	40	77-125
Toluene	12000	12000	100	0	40	73-131
Chlorobenzene	12000	12000	100	0	40	79-129

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 289661

Level: LOW

MS Sample from Lab Job No: M910

QA Batch: 5665

Compound	MS % REC.	BS % REC.	LIMITS
Chloromethane	102	90	0-273
Bromomethane	127	100	0-242
Vinyl Chloride	102	90	0-251
Chloroethane	125	105	14-230
Methylene Chloride	95	100	0-221
Trichlorofluoromethane	100	100	17-181
1,1-Dichloroethene	100	95	0-234
1,1-Dichloroethane	98	100	59-155
trans-1,2-Dichloroethene	95	95	54-156
Chloroform	100	100	51-138
1,2-Dichloroethane	98	95	49-155
1,1,1-Trichloroethane	98	90	52-162
Carbon Tetrachloride	98	90	70-140
Bromodichloromethane	100	105	35-155
1,2-Dichloropropane	100	100	0-210
cis-1,3-Dichloropropene	95	95	0-227
Trichloroethene	102	95	71-157
Dibromochloromethane	88	100	53-149
1,1,2-Trichloroethane	100	105	52-150
Benzene	100	100	37-151
trans-1,3-Dichloropropene	95	100	17-183
2-Chloroethyl Vinyl Ether	0	95	0-305
Bromoform	78	100	45-169
Tetrachloroethene	100	95	64-148
1,1,2,2-Tetrachloroethane	105	105	46-157
Toluene	98	95	47-150
Chlorobenzene	92	100	37-160
Ethylbenzene	90	95	37-162
1,3-Dichlorobenzene	85	95	59-156
1,4-Dichlorobenzene	85	100	18-190

* Values outside of QC limits

VOLATILE SPIKE RECOVERY SUMMARY
METHOD 624

Matrix: WATER

Matrix Spike - Lab Sample No.: 289661

Level: LOW

MS Sample from Lab Job No: M910

QA Batch: 5665

Compound	MS % REC.	BS % REC.	LIMITS
=====	=====	=====	=====
1,2-Dichlorobenzene	88	100	18-190

* Values outside of QC limits

Spike Recovery: 0 out of 62 outside limits

COMMENTS:



Internal Standard Area and RT Summary

1.0

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): D21313

Date Analyzed: 07/21/01

Instrument ID: VOAMS4

Time Analyzed: 0708

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	5652501	9.70	4164791	13.41	2345048	15.93
UPPER LIMIT	11305002	10.20	8329582	13.91	4690096	16.43
LOWER LIMIT	2826250	9.20	2082396	12.91	1172524	15.43
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 DV202	5450121	9.72	4012329	13.41	2190041	15.93
02 289209	5108307	9.69	3418582	13.39	1722739	15.92
03 289205	4915058	9.72	3433563	13.41	1736920	15.93
04 289206	4717416	9.67	2997711	13.38	1526924	15.92
05 289210	4655319	9.69	3256297	13.40	1623780	15.93
06 289211	4594302	9.69	3242354	13.39	1641000	15.92
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 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
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): D21396

Date Analyzed: 07/24/01

Instrument ID: VOAMS4

Time Analyzed: 1050

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	4161875	9.70	3063855	13.41	1675675	15.93
	UPPER LIMIT	8323750	10.20	6127710	13.91	3351350	16.43
	LOWER LIMIT	2080938	9.20	1531928	12.91	837838	15.43
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	DV205M	3647978	9.69	2476795	13.39	1308215	15.93
02	289212	3317836	9.69	2330486	13.40	1223090	15.93
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
 IS2 (CBZ) = Chlorobenzene-d5
 IS3 (DCB) = 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
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): F26782

Date Analyzed: 07/24/01

Instrument ID: VOAMS6

Time Analyzed: 1318

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	441342	8.52	1515484	9.82	1271461	13.38
UPPER LIMIT	882684	9.02	3030968	10.32	2542922	13.88
LOWER LIMIT	220671	8.02	757742	9.32	635730	12.88
=====	=====	=====	=====	=====	=====	=====
LABORATORY						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 FV205A	440645	8.50	1523855	9.80	1302684	13.37
02 289207	561883	8.49	1999349	9.79	1665235	13.37
03 289208	541918	8.49	1899006	9.79	1580391	13.35
04 289217	515376	8.49	1819820	9.79	1505184	13.36
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

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

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

GC/MS Forms and Data (Semivolatiles)

Results Summary and Chromatograms

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/26/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5770.d

Matrix: WATER
Level: LOW
Sample Volume: 970 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

PAH - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Naphthalene	ND	0.6
Acenaphthylene	ND	0.6
Acenaphthene	ND	0.6
Fluorene	ND	0.6
Phenanthrene	ND	0.5
Anthracene	ND	0.4
Fluoranthene	ND	0.4
Pyrene	ND	0.4
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.5
Benzo(b)fluoranthene	ND	0.3
Benzo(k)fluoranthene	ND	0.8
Benzo(a)pyrene	ND	0.2
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.6
Benzo(g,h,i)perylene	ND	0.4

Data File: /chem/BNAMS8.i/625/07-23-01/26jul01.b/aa5770.d
Report Date: 27-Jul-2001 10:26

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS8.i/625/07-23-01/26jul01.b/aa5770.d
Lab Smp Id: 289207 Client Smp ID: FB-1
Inj Date : 26-JUL-2001 19:15
Operator : BNAMS 1 *JP* Inst ID: BNAMS8.i
Smp Info : 289207;970;2;1;
Misc Info : M838;PAH;6501;146
Comment :
Method : /chem/BNAMS8.i/625/07-23-01/26jul01.b/bna625b.m
Meth Date : 26-Jul-2001 11:03 rusin Quant Type: ISTD
Cal Date : 23-JUL-2001 14:19 Cal File: aa5685.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPPAHb.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

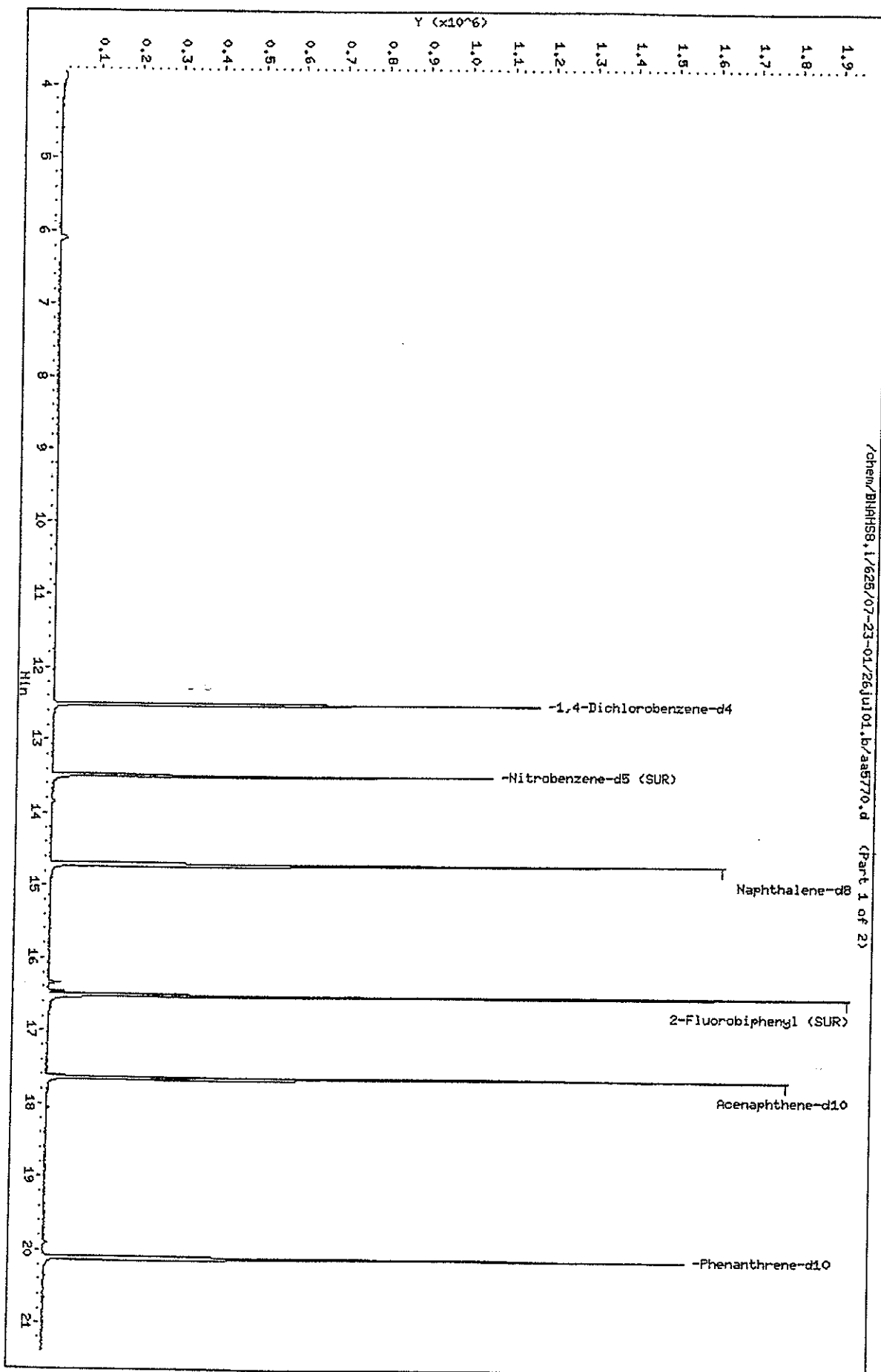
Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	970.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/L)
* 79 1,4-Dichlorobenzene-d4	152	12.513	12.524	(1.000)	296485	40.0000		
\$ 76 Nitrobenzene-d5 (SUR)	82	13.485	13.507	(0.917)	420629	42.8187	88	
* 80 Naphthalene-d8	136	14.703	14.714	(1.000)	1052186	40.0000		
\$ 77 2-Fluorobiphenyl (SUR)	172	16.514	16.525	(0.936)	805178	48.0501	99	
* 82 Acenaphthene-d10	164	17.640	17.651	(1.000)	541163	40.0000		
* 83 Phenanthrene-d10	188	20.106	20.117	(1.000)	771466	40.0000		
\$ 78 Terphenyl-d14 (SUR)	244	22.736	22.747	(0.929)	664861	55.1978	110	
* 81 Chrysene-d12	240	24.476	24.497	(1.000)	545543	40.0000		
* 84 Perylene-d12	264	27.597	27.618	(1.000)	406762	40.0000		

Data File: /chem/BNHHS8.1/626/07-23-01/26jul01.b/aas770.d
Date: 26-JUL-2001 19:15
Client ID: FB-1
Sample Info: 2892071970;2;1;
Purge Volume: 970.0
Column Phase: DB-5

Instrument: BNHHS8.1
Operator: BNHHS 1
Column diameter: 0.53



Data File: /chem/BHHS8.1/625/07-23-01/26jul01.b/aab770.d
Date: 26-JUL-2001 19:15

Client ID: FB-1

Sample Info: 289207970211;

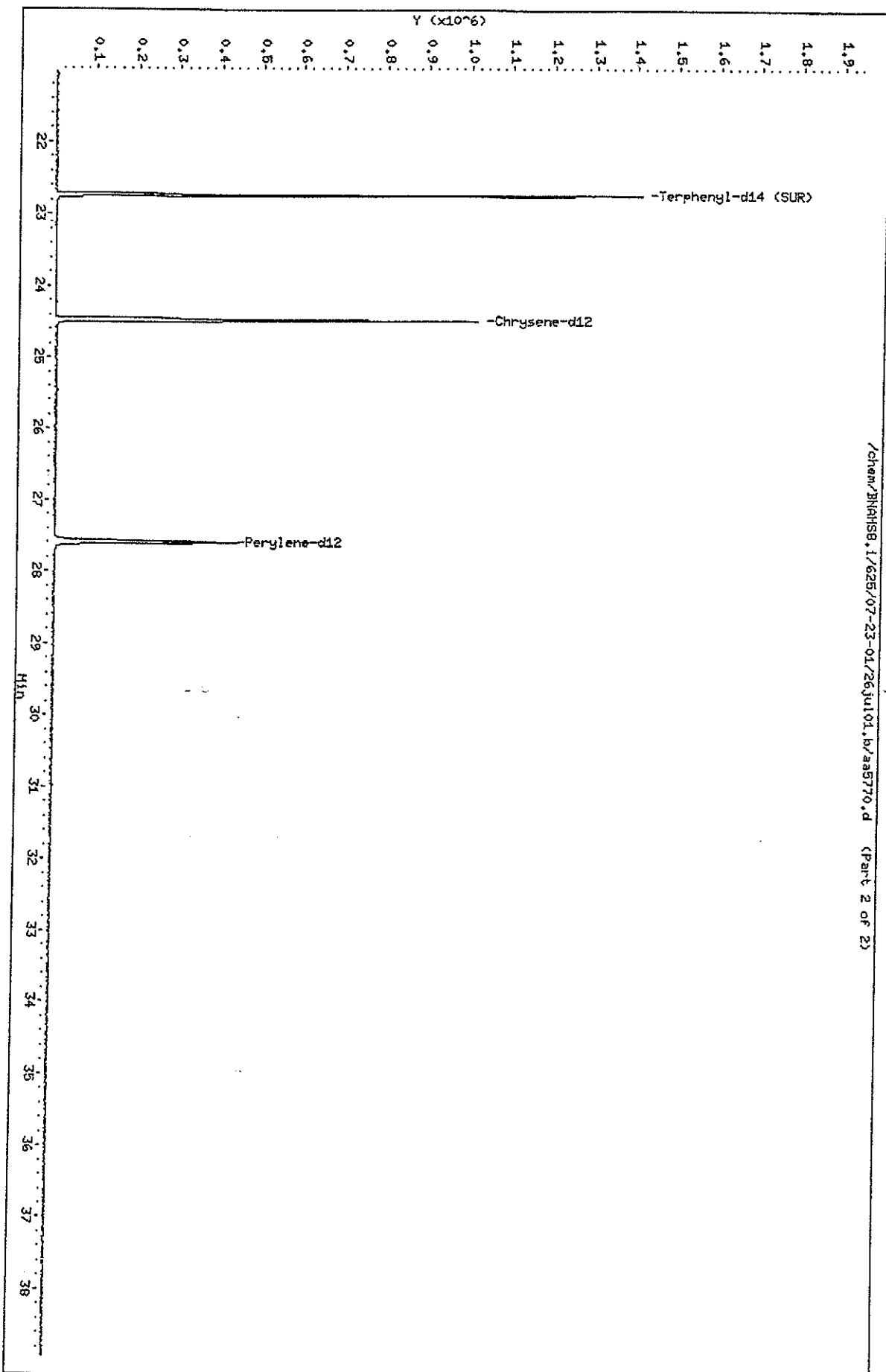
Purge Volume: 970.0

Column phase: DB-5

Instrument: BHHS8.1

Operator: BHHS 1

Column diameter: 0.53



Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16538.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 18

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Naphthalene	ND	410
Acenaphthylene	ND	410
Acenaphthene	ND	410
Fluorene	ND	410
Phenanthrene	ND	410
Anthracene	ND	410
Fluoranthene	ND	410
Pyrene	ND	410
Benzo(a)anthracene	ND	41
Chrysene	ND	410
Benzo(b)fluoranthene	ND	41
Benzo(k)fluoranthene	ND	41
Benzo(a)pyrene	ND	41
Indeno(1,2,3-cd)pyrene	ND	41
Dibenz(a,h)anthracene	ND	41
Benzo(g,h,i)perylene	ND	410

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16538.d
Report Date: 25-Jul-2001 07:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16538.d
Lab Smp Id: 289210 Client Smp ID: SB-3
Inj Date : 24-JUL-2001 07:57
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289210;30;2;1;18.1
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

Compound Sublist: PPPAHb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	18.10000	% Moisture

Cpnd Variable

Local Compound Variable

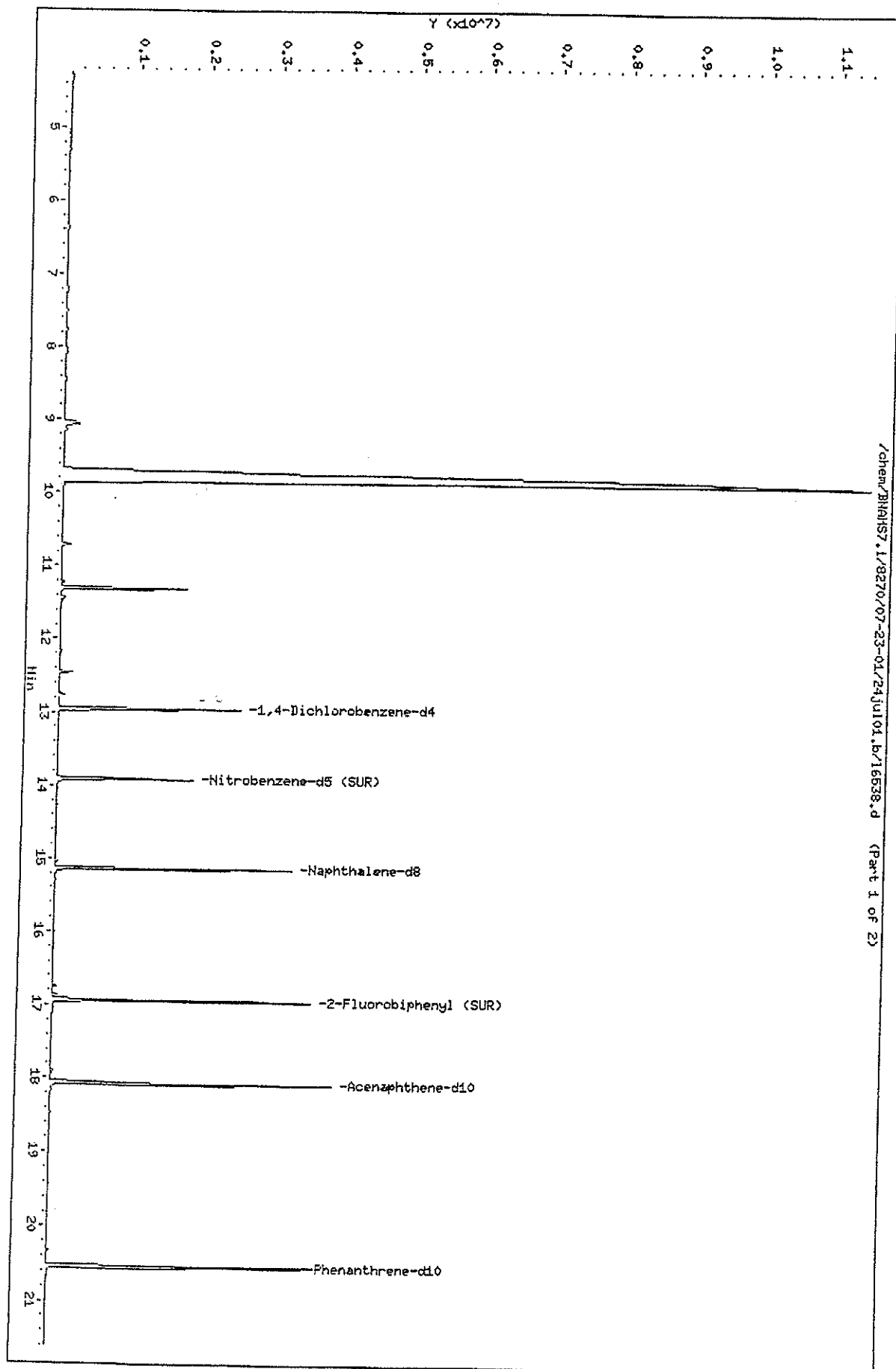
Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4		152	12.960	12.965	(1.000)	525305	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)		82	13.911	13.927	(0.919)	757422	42.7785	3500
* 80 Naphthalene-d8		136	15.138	15.143	(1.000)	1958820	40.0000	
\$ 77 2-Fluorobiphenyl (SUR)		172	16.937	16.943	(0.937)	1454732	42.5101	3500
* 82 Acenaphthene-d10		164	18.072	18.078	(1.000)	1155744	40.0000	
* 83 Phenanthrene-d10		188	20.547	20.552	(1.000)	2190053	40.0000	
\$ 78 Terphenyl-d14 (SUR)		244	23.175	23.180	(0.928)	2193230	43.1535	3500
* 81 Chrysene-d12		240	24.964	24.980	(1.000)	2411328	40.0000	
* 84 Perylene-d12		264	28.481	28.497	(1.000)	2399714	40.0000	

Data File: /chem/BNHHS7.1/8270/07-23-01/24jun01.b/16538.d
Date: 24-JUL-2001 07:57
Client ID: SB-3
Sample Info: 289210/30/2/1/18.1

Column phase: DB-5

Instrument: BNHHS7.1

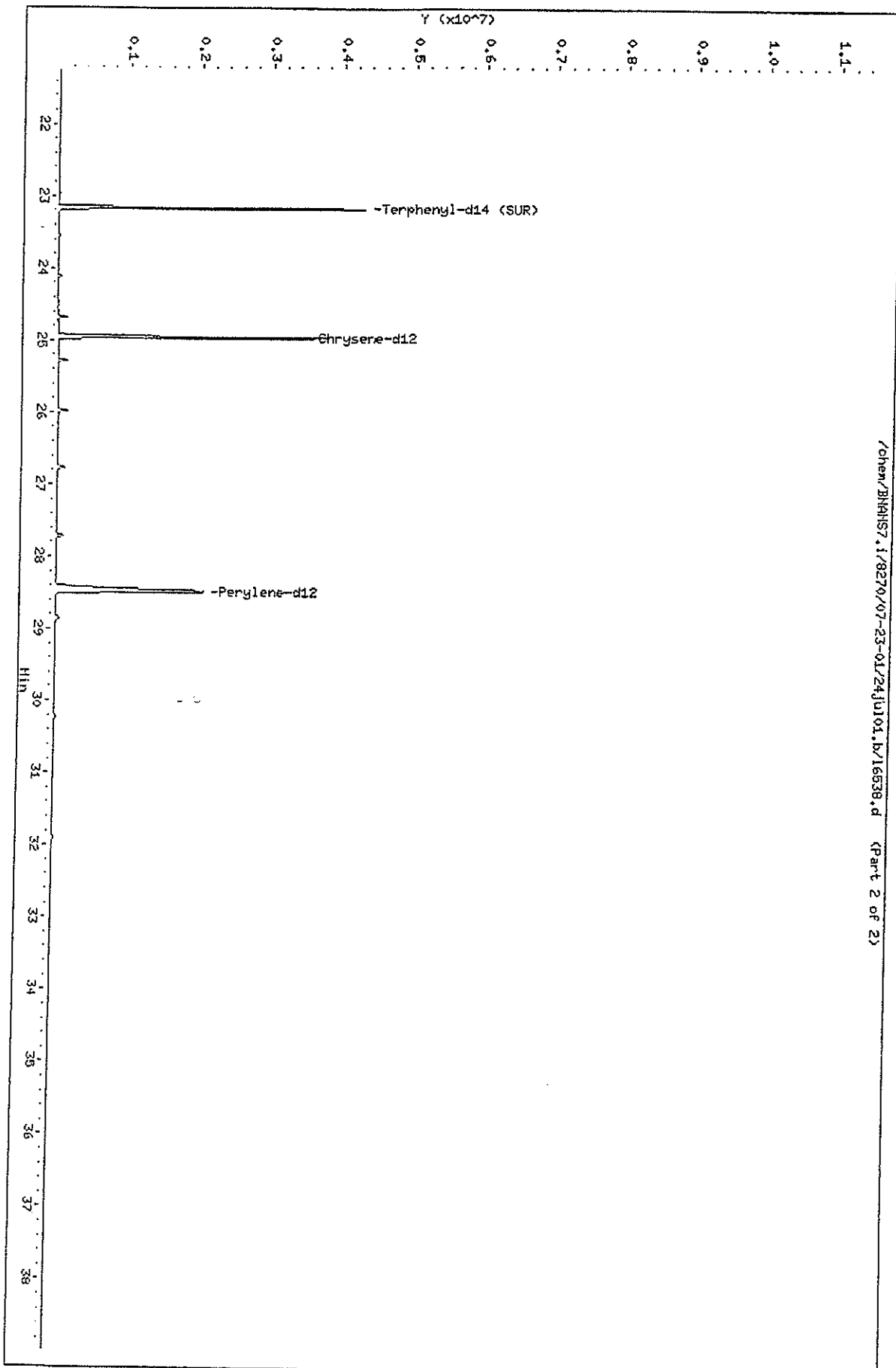
Operator: BNHHS 4
Column diameter: 0.25



Data File: /chem/BHHS7.1/8270/07-23-01/24jul01.b/16538.d
Date: 24-JUL-2001 07:57
Client ID: SB-3
Sample Info: 289210/30/21,18.1

Column phase: DB-5

Instrument: BHHS7.1
Operator: BHHS 4
Column diameter: 0.25



Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16539.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	ND	400
Anthracene	ND	400
Fluoranthene	ND	400
Pyrene	ND	400
Benzo(a)anthracene	ND	40
Chrysene	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND	40
Benzo(a)pyrene	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16539.d
Report Date: 25-Jul-2001 07:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16539.d
Lab Smp Id: 289211 Client Smp ID: SB-4
Inj Date : 24-JUL-2001 08:47
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289211;30;2;1;15.9
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierho Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1
Compound Sublist: PPPAHb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	15.90000	% Moisture

Cpnd Variable

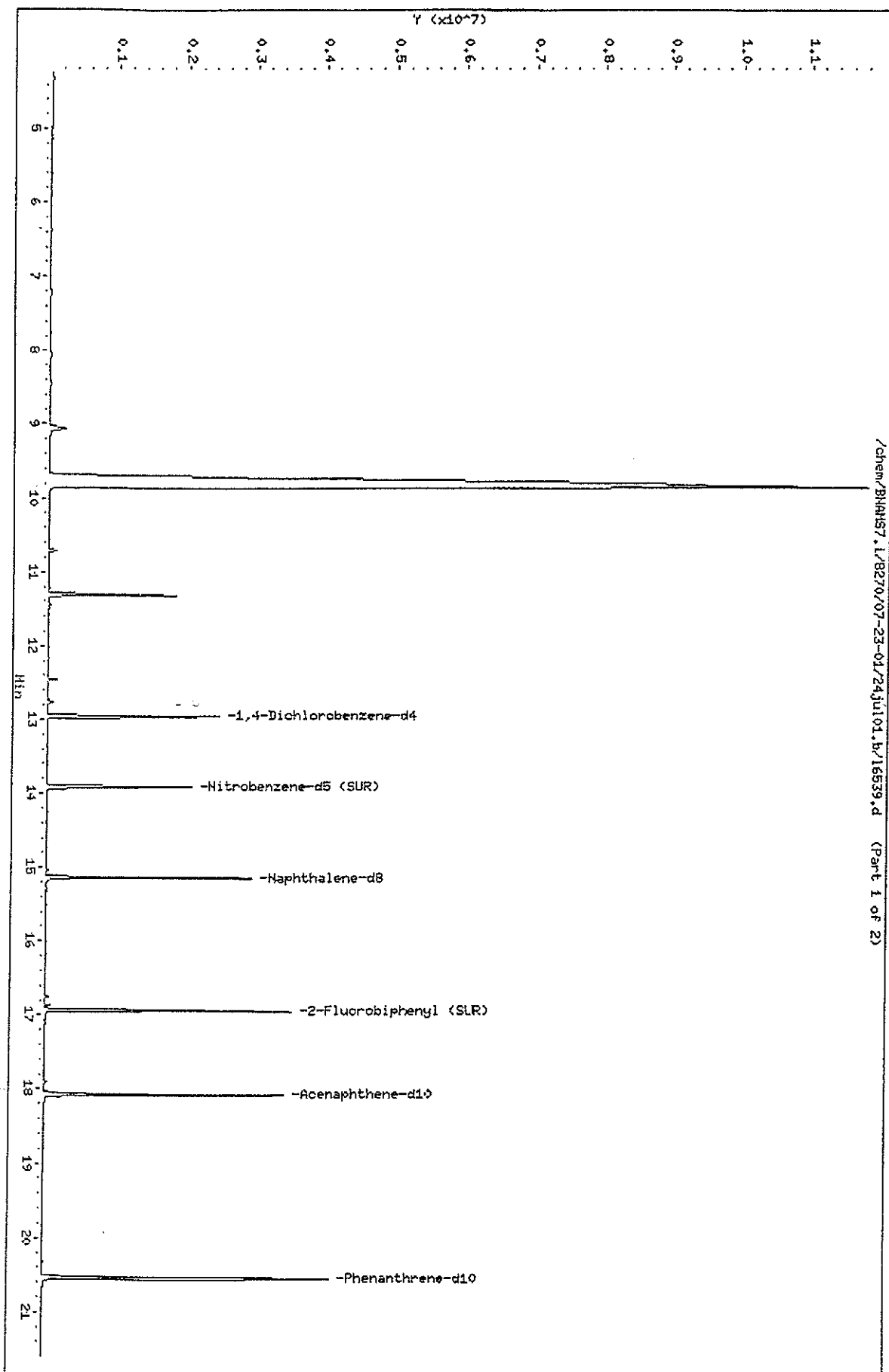
Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.954	12.965	(1.000)	536271	40.0000		
S 76 Nitrobenzene-d5 (SUR)	82	13.915	13.927	(0.919)	802285	44.2872	3500	
* 80 Naphthalene-d8	136	15.142	15.143	(1.000)	2004161	40.0000		
S 77 2-Fluorobiphenyl (SUR)	172	16.932	16.943	(0.937)	1476368	42.1768	3300	
* 82 Acenaphthene-d10	164	18.067	18.078	(1.000)	1182204	40.0000		
* 83 Phenanthrene-d10	188	20.541	20.552	(1.000)	2155384	40.0000		
S 78 Terphenyl-d14 (SUR)	244	23.169	23.180	(0.928)	2251449	44.8595	3600	
* 81 Chrysene-d12	240	24.958	24.980	(1.000)	2381204	40.0000		
* 84 Perylene-d12	264	28.476	28.497	(1.000)	2374285	40.0000		

Data File: /chem/BNHS7.1/8270/07-23-01/24jul01.b/16539.d
Date: 24-JUL-2001 08:47
Client ID: SB-4
Sample Info: 28921130;21115.9

Column phase: DB-5

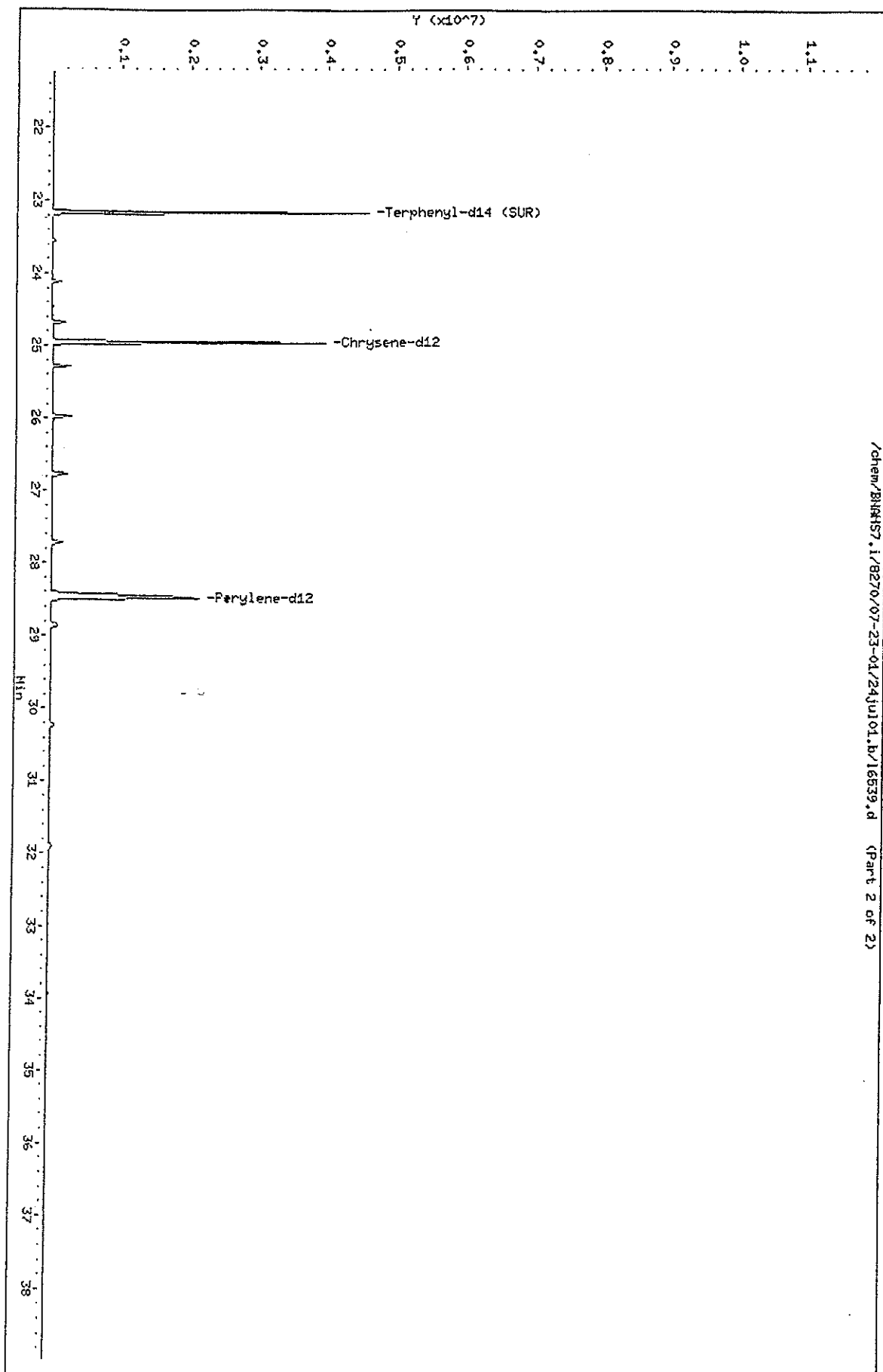
Instrument: BNHS7.1
Operator: BNHS 4
Column diameter: 0.25



Data File: /chem/BNHHS7.i/8270/07-23-01/24jul01.b/16539.d
Date: 24-JUL-2001 08:47
Client ID: SB-4
Sample Info: 289211;30;2;1;15.9

Column Phase: DB-5

Instrument: BNHHS7.i
Operator: BNHHS 4
Column diameter: 0.25



Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.1
Lab File ID: 16540.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 18

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	ND	400
Anthracene	ND	400
Fluoranthene	ND	400
Pyrene	ND	400
Benzo(a)anthracene	ND	40
Chrysene	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND	40
Benzo(a)pyrene	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/l6540.d
Report Date: 25-Jul-2001 07:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/l6540.d
Lab Smp Id: 289212 Client Smp ID: SB-5
Inj Date : 24-JUL-2001 09:36
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289212;30;2;1;17.6
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: l6519.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1
Compound Sublist: PPPAHb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	17.60000	% Moisture

Cpnd Variable

Local Compound Variable

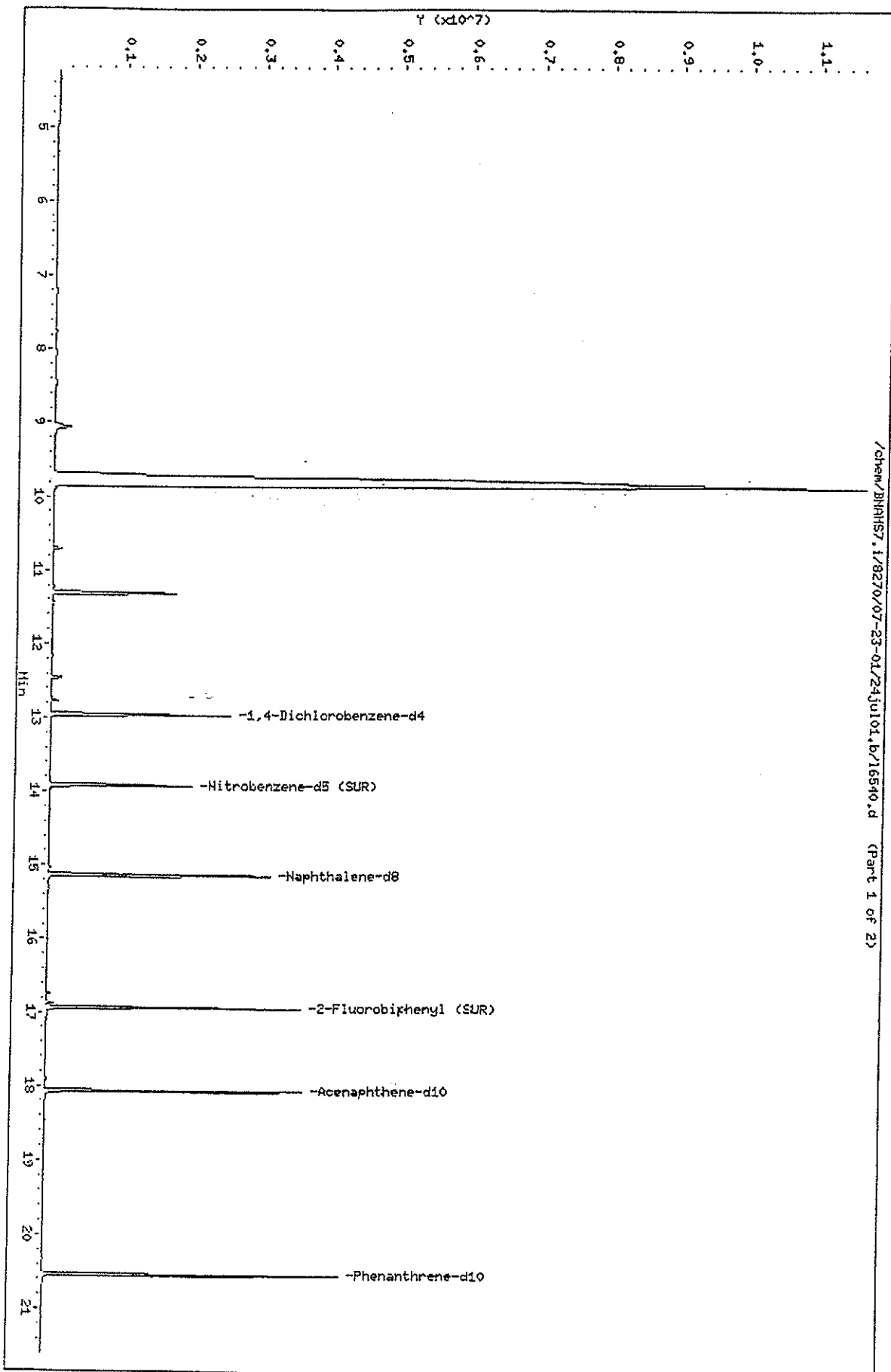
Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.955	12.965	(1.000)	552803	40.0000		
\$ 76 Nitrobenzene-d5 (SUR)	82	13.916	13.927	(0.919)	780070	41.6386	3400	
* 80 Naphthalene-d8	136	15.143	15.143	(1.000)	2072617	40.0000		
\$ 77 2-Fluorobiphenyl (SUR)	172	16.933	16.943	(0.937)	1492304	42.2558	3400	
* 82 Acenaphthene-d10	164	18.068	18.078	(1.000)	1192730	40.0000		
* 83 Phenanthrene-d10	188	20.542	20.552	(1.000)	2206979	40.0000		
\$ 78 Terphenyl-d14 (SUR)	244	23.170	23.180	(0.928)	2207319	44.0213	3600	
* 81 Chrysene-d12	240	24.959	24.980	(1.000)	2378980	40.0000		
* 84 Perylene-d12	264	28.477	28.497	(1.000)	2408864	40.0000		

Data File: /chem/BIHHS7.1/8270/07-23-01/24jul01.b/16540.d
Date: 24-Jul-2001 09:36
Client ID: SB-5
Sample Info: 289212/30;2;11;17.6

Column phase: DB-5

Instrument: BIHHS7.1

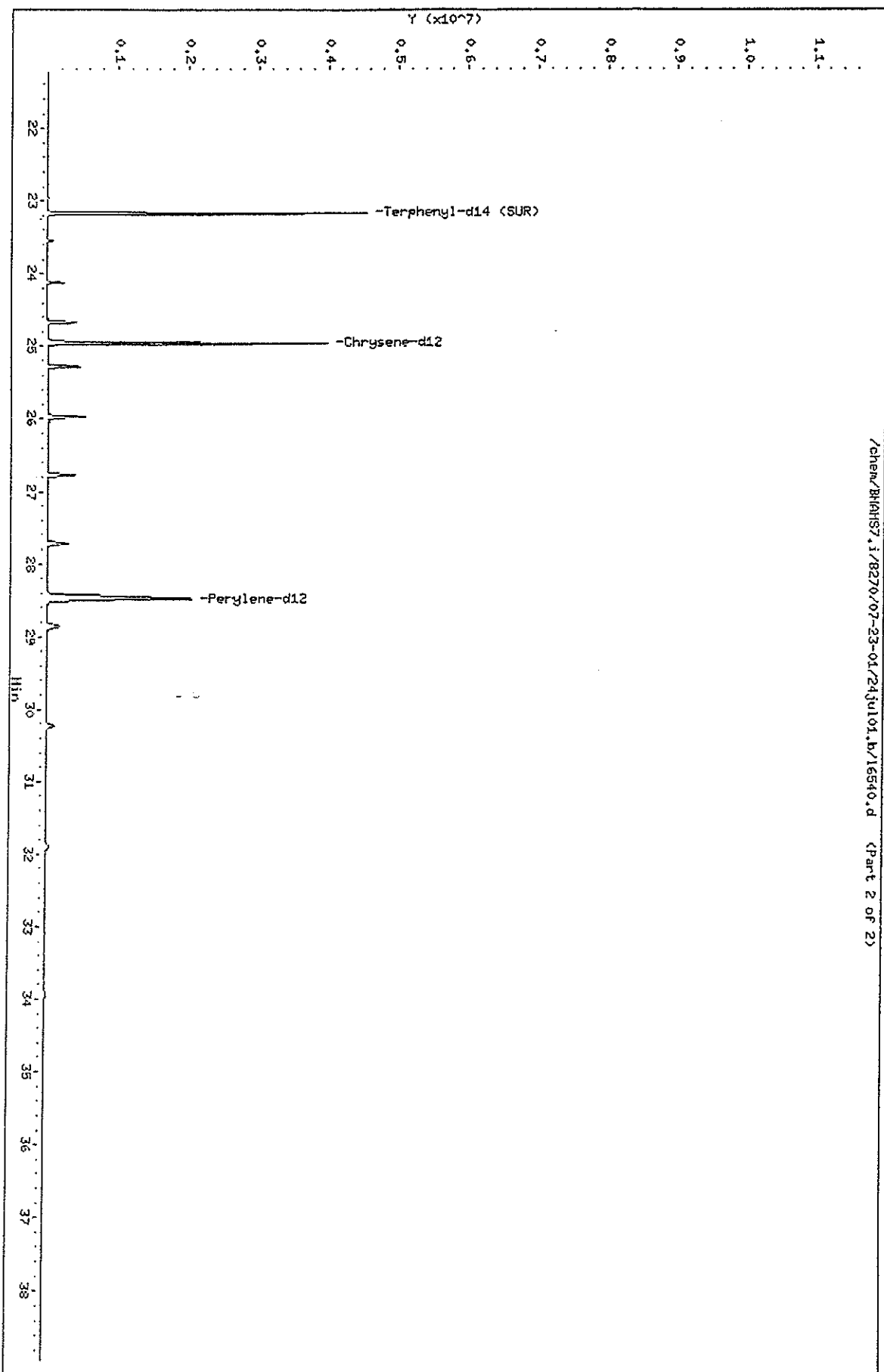
Operator: BIHHS 4
Column diameter: 0.25



Data File: /chem/BNAHS7.i/8270/07-23-01/24jul01.b/16540.d
Date : 24-JUL-2001 09:36
Client ID: SB-5
Sample Info: 289212;30;21;17.6

Column phase: DB-5

Instrument: BNAHS7.i
Operator: BNAHS 4
Column diameter: 0.25



Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample No: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16522.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND		400
Acenaphthylene	ND		400
Acenaphthene	ND		400
Fluorene	ND		400
Phenanthrene	19 J		400
Anthracene	ND		400
Fluoranthene	29 J		400
Pyrene	28 J		400
Benzo(a)anthracene	24 J		40
Chrysene	18 J		400
Benzo(b)fluoranthene	20 J		40
Benzo(k)fluoranthene	10 J		40
Benzo(a)pyrene	15 J		40
Indeno(1,2,3-cd)pyrene	10 J		40
Dibenz(a,h)anthracene	ND		40
Benzo(g,h,i)perylene	9.6J		400

Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d
Report Date: 25-Jul-2001 09:25

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d
Lab Smp Id: 289213 Client Smp ID: SB-6
Inj Date : 23-JUL-2001 18:28
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289213;30;2;1;16.5
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/23jul01.b/8270c1.m
Meth Date : 24-Jul-2001 07:09 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

JR

Compound Sublist: PPPAHb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	16.50000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.967	12.966	(1.000)	548953	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	13.918	13.917	(0.919)	875743	46.5456	3700
* 80 Naphthalene-d8	136	15.145	15.154	(1.000)	2081518	40.0000	
\$ 77 2-Fluorobiphenyl (SUR)	172	16.944	16.944	(0.937)	1631060	46.1407	3700
* 82 Acenaphthene-d10	164	18.079	18.079	(1.000)	1193870	40.0000	
* 83 Phenanthrene-d10	188	20.544	20.553	(1.000)	2153525	40.0000	
53 Phenanthrene	178	20.585	20.584	(1.002)	12904	0.24123	19 (a)
56 Fluoranthene	202	22.548	22.557	(1.098)	22296	0.36552	29 (a)
57 Pyrene	202	22.936	22.936	(0.918)	22901	0.34469	28 (a)
\$ 78 Terphenyl-d14 (SUR)	244	23.182	23.171	(0.928)	2252487	45.6874	3600
61 Benzo(a)anthracene	228	24.940	24.950	(0.999)	19126	0.29564	24 (a)
* 81 Chrysene-d12	240	24.971	24.970	(1.000)	2339128	40.0000	
62 Chrysene	228	25.002	25.021	(1.001)	13777	0.22964	18 (a)

Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d
 Report Date: 25-Jul-2001 09:25

Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS	RT					ON-COLUMN (ug/ml)	FINAL (ug/Kg)
*****	****	**	*****	*****	*****	*****	*****	*****
65 Benzo(b) fluoranthene	252	27.323	27.343	(0.959)	16562	0.24565	20 (a)	
66 Benzo(k) fluoranthene	252	27.394	27.424	(0.962)	7776	0.12494	10 (a)	
67 Benzo(a) pyrene	252	28.274	28.304	(0.992)	11779	0.18913	15 (a)	
* 68 Perylene-d12	264	28.489	28.498	(1.000)	2365285	40.0000		
68 Indeno(1,2,3-cd) pyrene	276	32.568	32.619	(1.143)	8572	0.13231	10 (a)	
70 Benzo(g, h, i) perylene	276	33.836	33.917	(1.188)	7994	0.11994	9.6 (a)	

QC Flag Legend

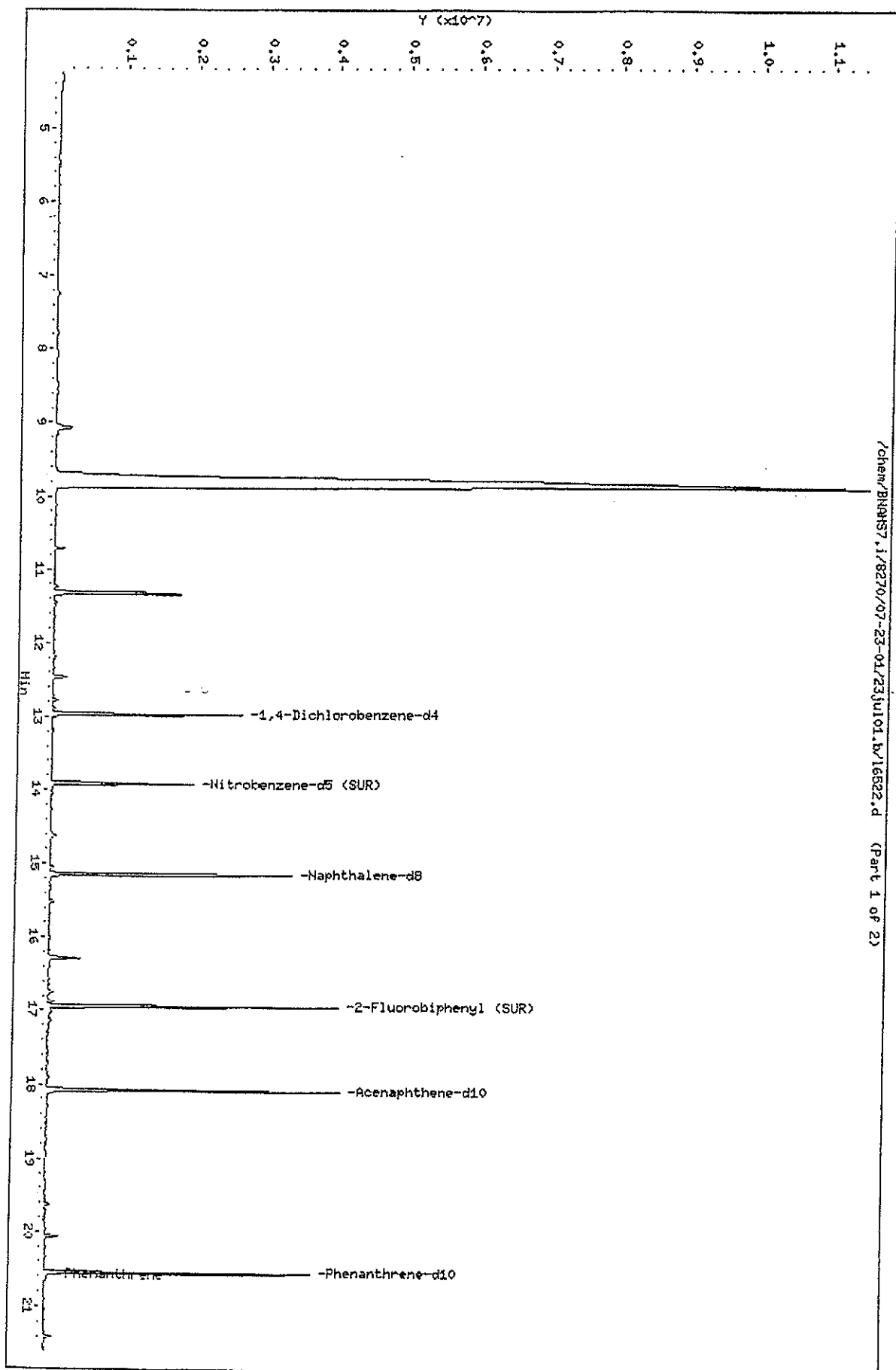
a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation(BLOQ).

Data File: /chem/BNQHS7.i/8270/07-23-01/23jul01.b/16522.d
Date : 23-JUL-2001 18:28
Client ID: SB-6
Sample Info: 289213;3012;1;16.5

Column phase: DB-5

Instrument: BNQHS7.i

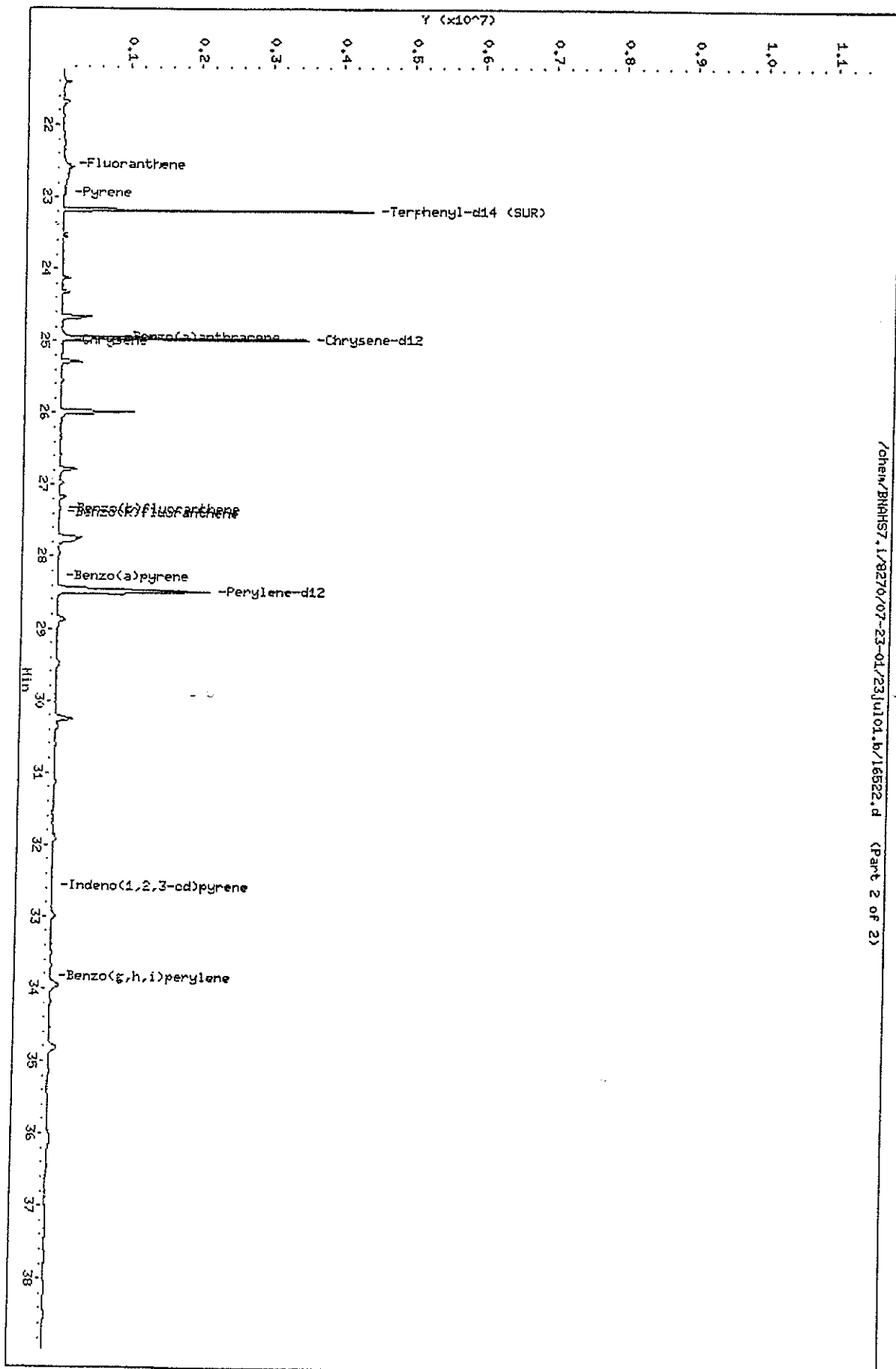
Operator: BNQHS 4
Column diameter: 0.25



Data File: /chem/BNH57.1/8270/07-23-01/23jul01.b/16522.d
 Date: 23-JUL-2001 18:28
 Client ID: SB-6
 Sample Info: 289213;30;2;1;16.5

Column phase: DB-6

Instrument: BNH57.1
 Operator: BNH5 4
 Column diameter: 0.25



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

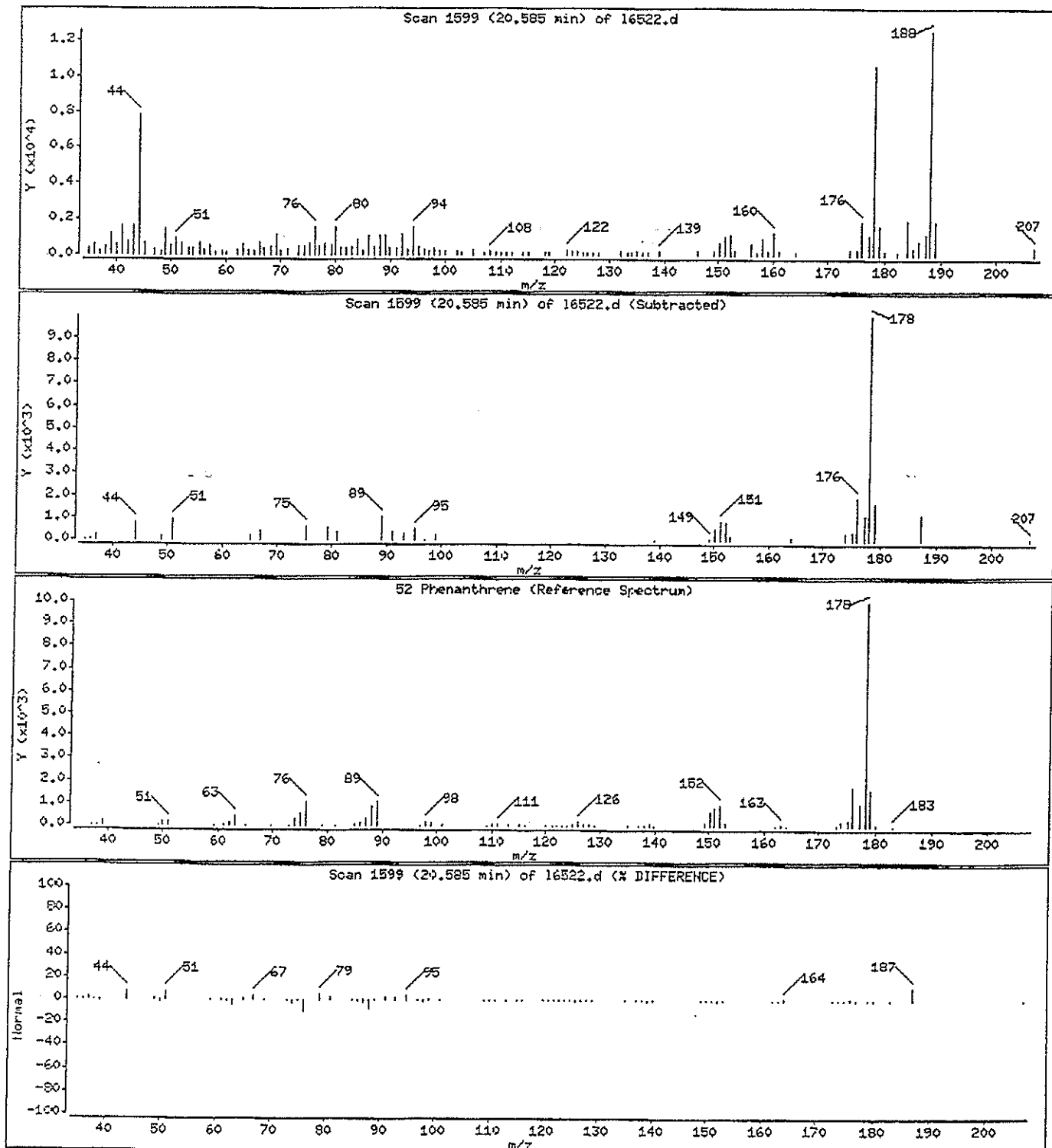
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 19 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

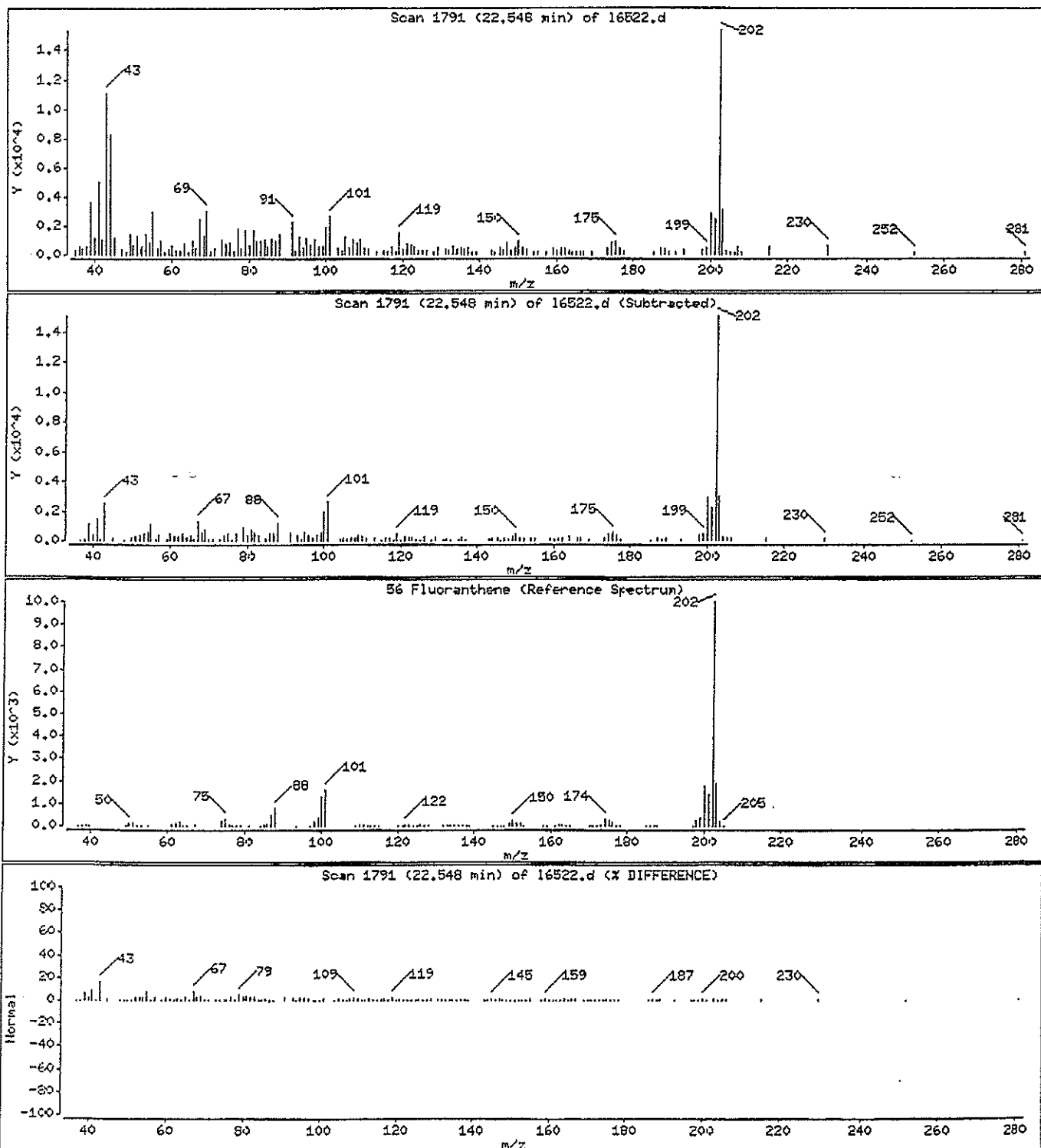
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 29 ug/Kg



Data File: /chem/ENHMS7.i/6270/07-23-01/23Jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: ENHMS7.1

Sample Info: 289213;30;2;1;16.5

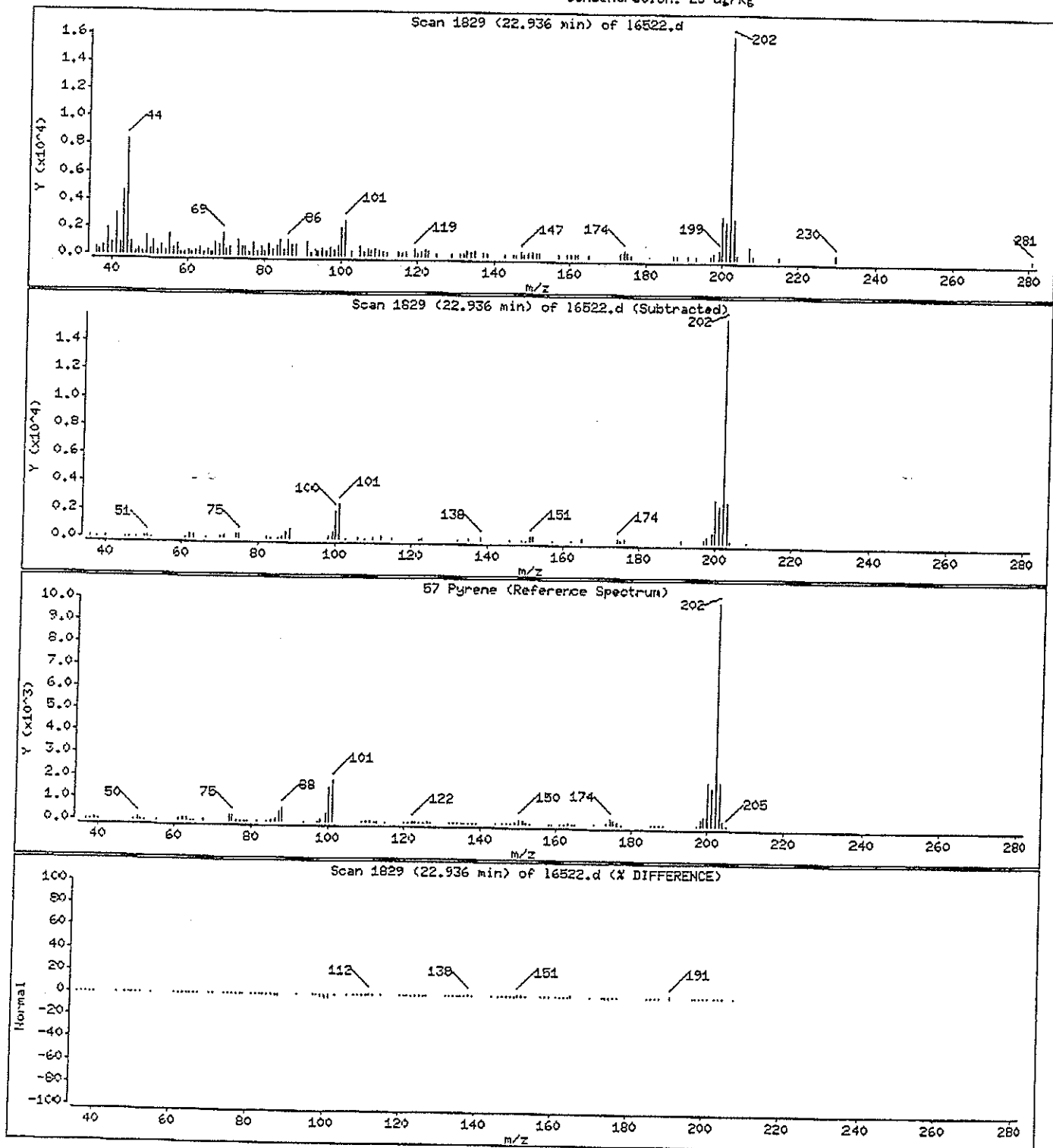
Operator: ENHMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 29 ug/Kg



Data File: /chem/BNAMS7.1/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: INAMS7.1

Sample Info: 289213;30;2;1;16.5

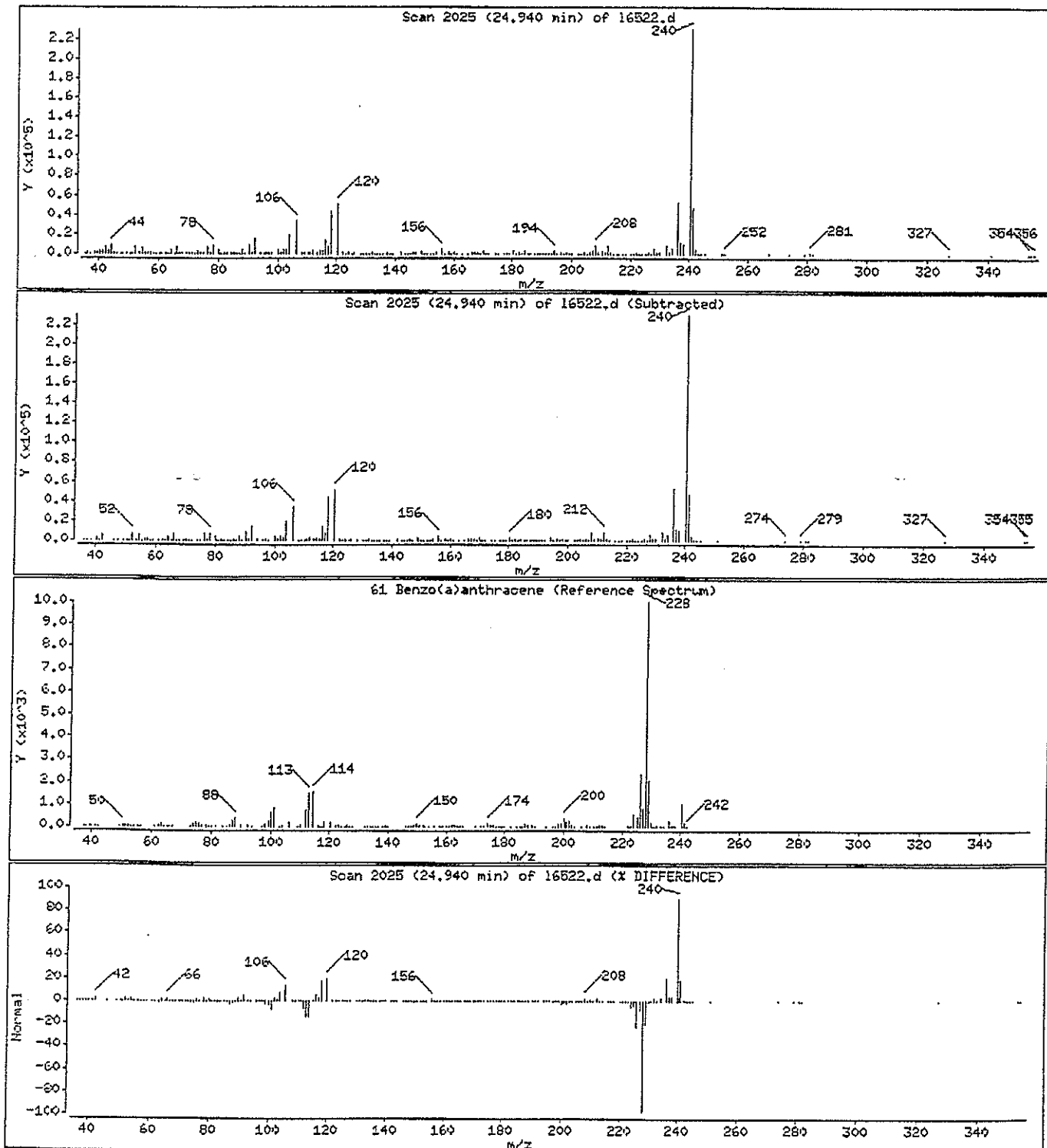
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

.61 Benzo(a)anthracene

Concentration: 24 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Sample Info: 289213;30;2;1;16.5

Instrument: BNAMS7.i

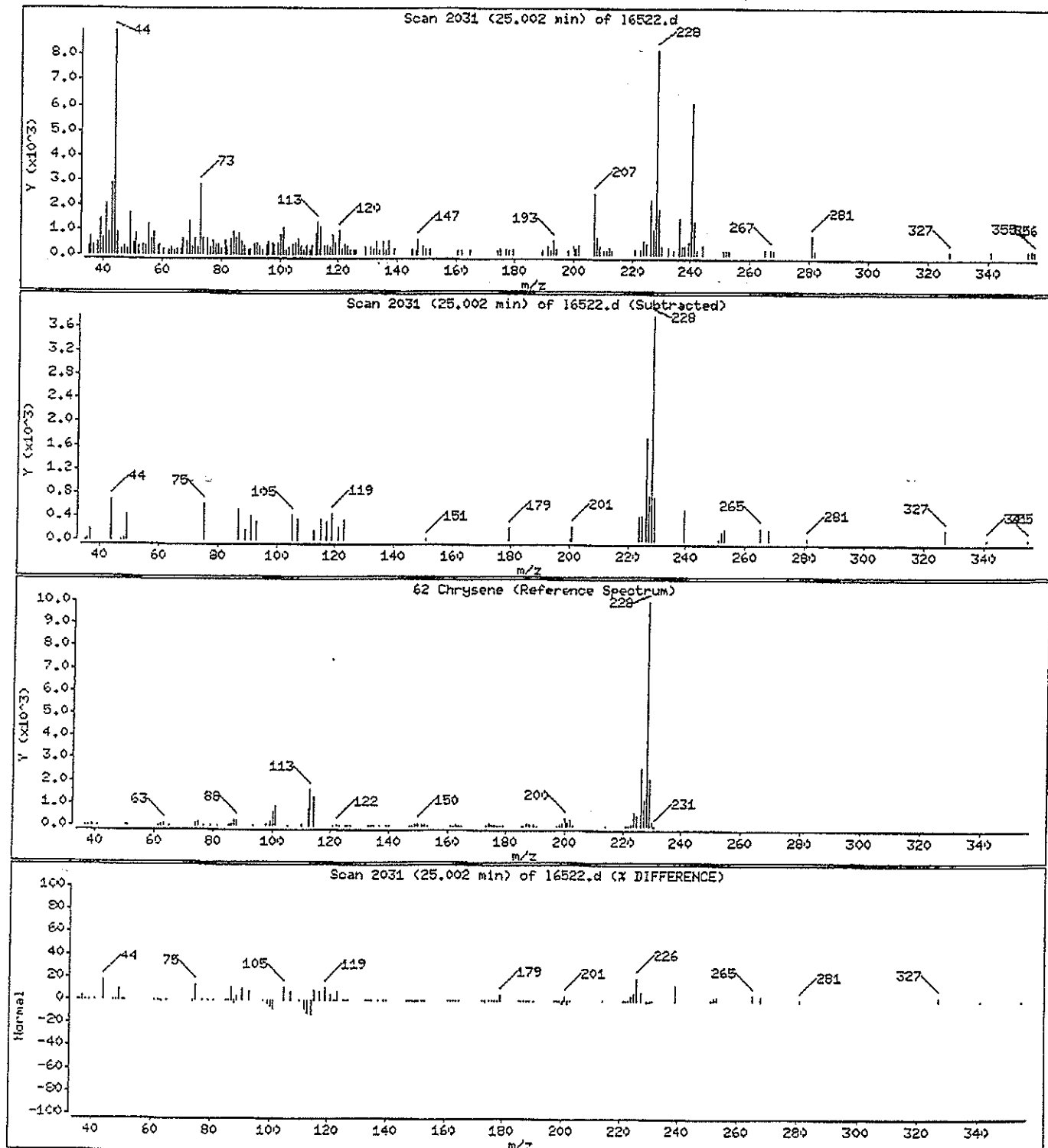
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 18 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01,b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

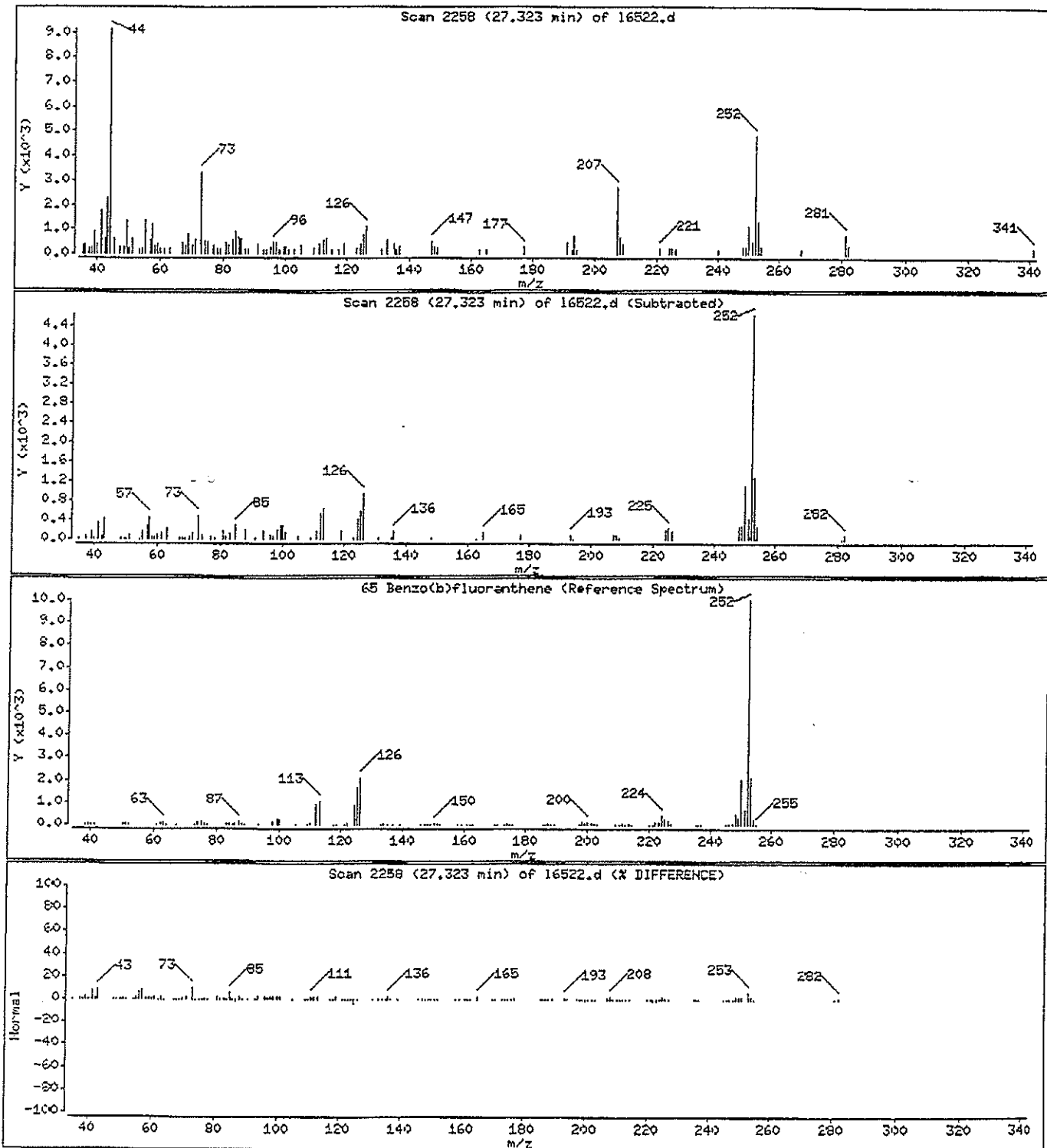
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 20 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

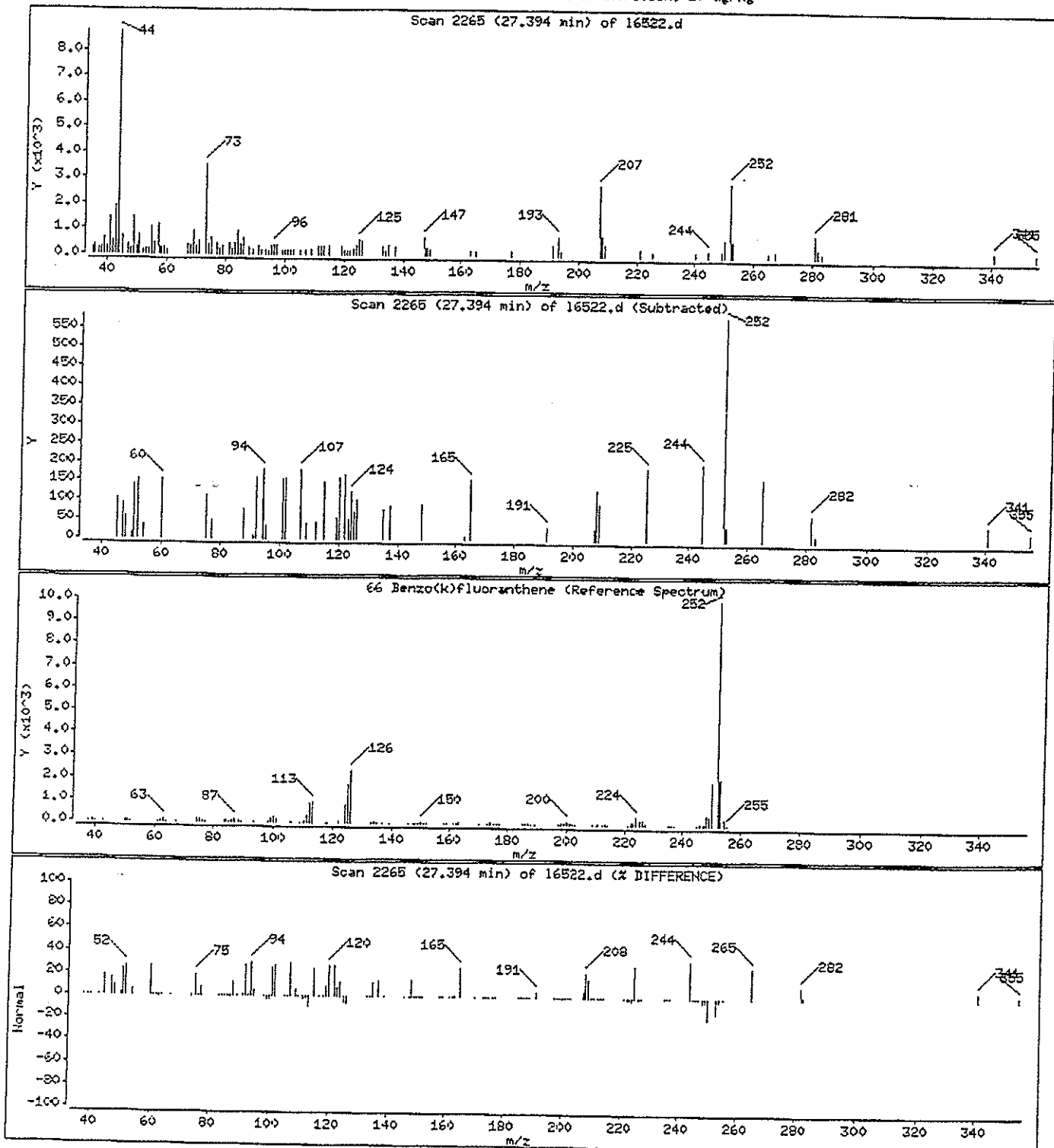
Operator: BNAMS 4

Column diameter: 0.25

Column phase: DB-5

66 Benzo(k)fluoranthene

Concentration: 10 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

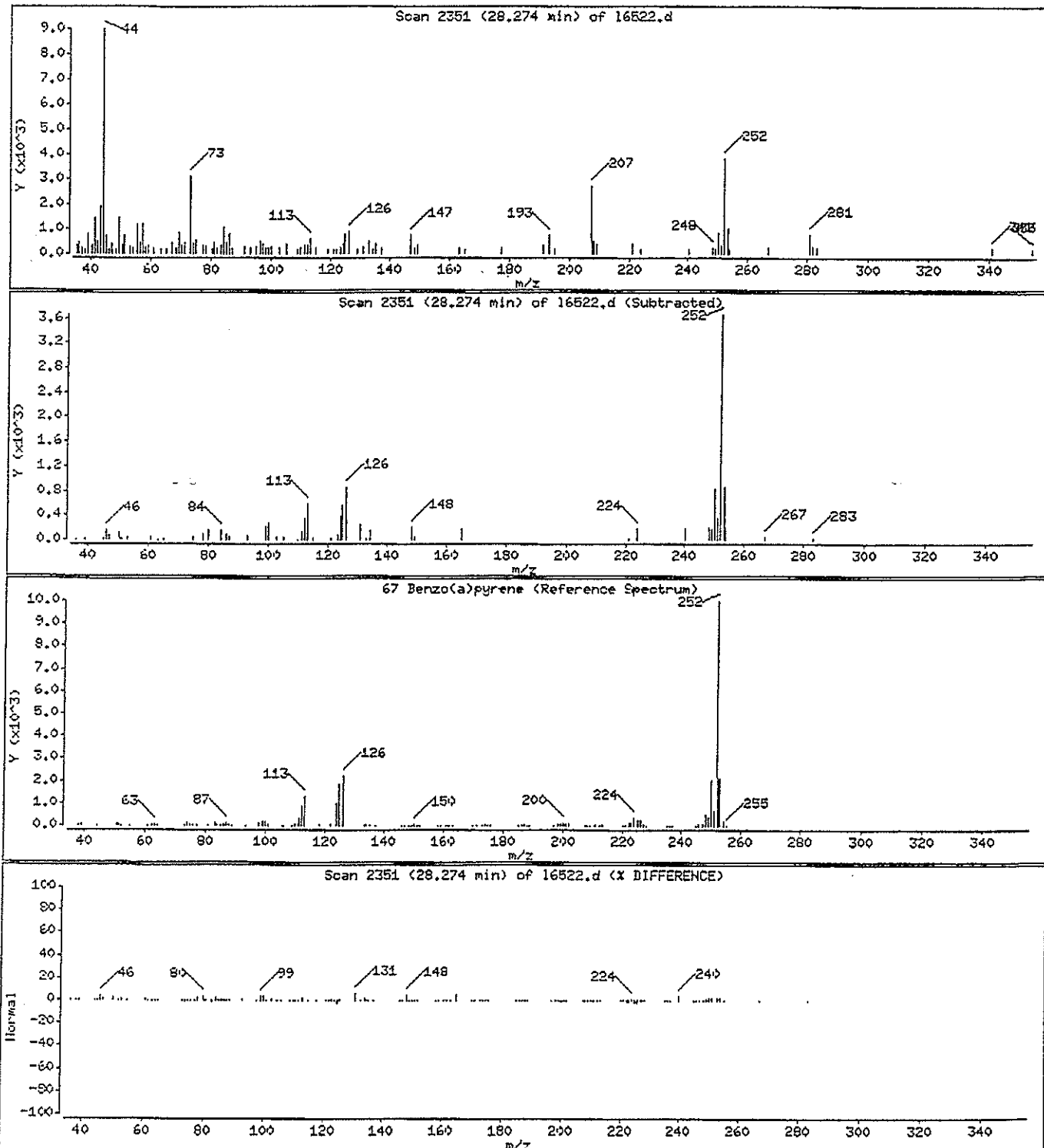
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 15 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SB-6

Sample Info: 289213;30;2;1;16.5

Instrument: BNAMS7.i

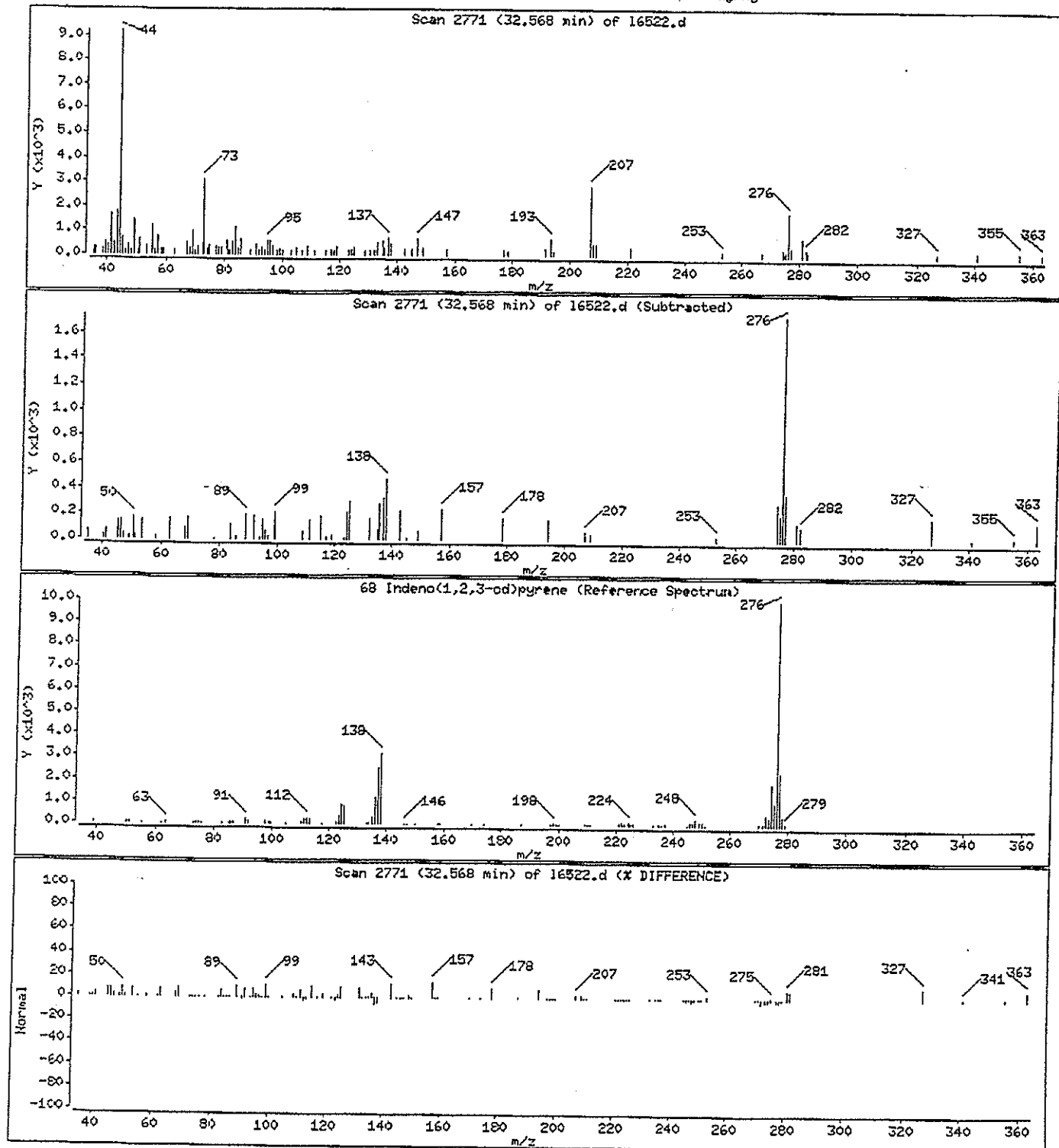
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 10 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16522.d

Date : 23-JUL-2001 18:28

Client ID: SP-6

Instrument: BNAMS7.i

Sample Info: 289213;30;2;1;16.5

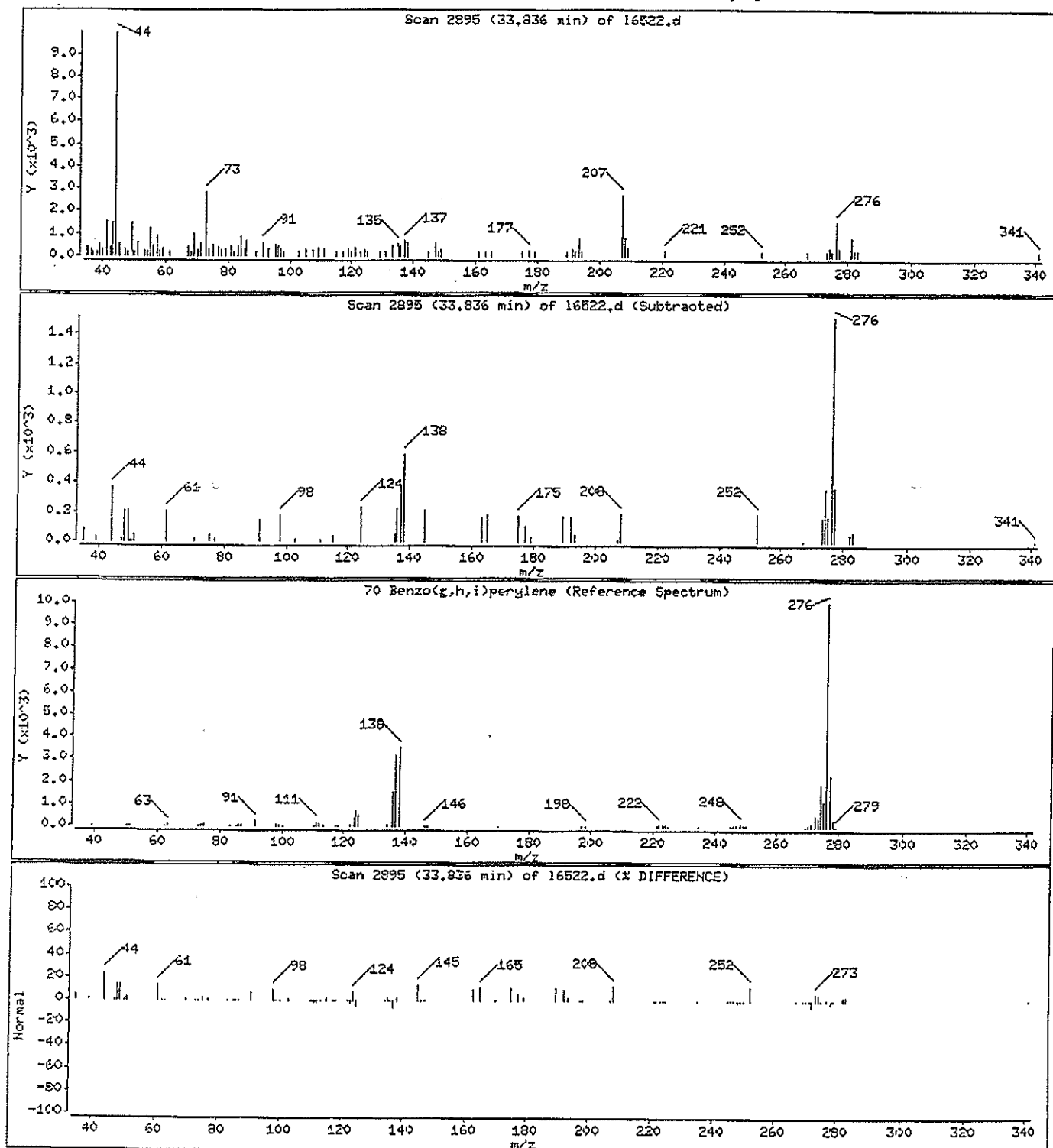
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 9.6 ug/Kg



Client ID: SB-7
Site: NJDOT Credit Union

Lab Sample No: 289214
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16541.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 12

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u>
		Limit Units: ug/kg
Naphthalene	ND	380
Acenaphthylene	ND	380
Acenaphthene	ND	380
Fluorene	ND	380
Phenanthrene	12 J	380
Anthracene	ND	380
Fluoranthene	26 J	380
Pyrene	22 J	380
Benzo(a)anthracene	18 J	38
Chrysene	13 J	380
Benzo(b)fluoranthene	16 J	38
Benzo(k)fluoranthene	7.6J	38
Benzo(a)pyrene	11 J	38
Indeno(1,2,3-cd)pyrene	7.8J	38
Dibenz(a,h)anthracene	ND	38
Benzo(g,h,i)perylene	8.2J	380

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d
Report Date: 25-Jul-2001 07:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d
Lab Smp Id: 289214 Client Smp ID: SB-7
Inj Date : 24-JUL-2001 10:26
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289214;30;2;1;12
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1
Compound Sublist: PPPAHb.sub

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	12.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
* 79 1,4-Dichlorobenzene-d4		152	12.964	12.965	(1.000)	561025	40.0000	
S 76 Nitrobenzene-d5 (SUR)		82	13.915	13.927	(0.919)	883051	45.8004	3500
* 80 Naphthalene-d8		136	15.142	15.143	(1.000)	2133038	40.0000	
S 77 2-Fluorobiphenyl (SUR)		172	16.932	16.943	(0.937)	1704084	45.9758	3500
* 82 Acenaphthene-d10		164	18.077	18.078	(1.000)	1251793	40.0000	
* 83 Phenanthrene-d10		188	20.541	20.552	(1.000)	2311206	40.0000	
52 Phenanthrene		178	20.572	20.593	(1.001)	9296	0.16193	12 (a)
56 Fluoranthene		202	22.545	22.567	(1.098)	22249	0.33987	26 (a)
57 Pyrene		202	22.923	22.945	(0.918)	20451	0.29065	22 (a)
S 78 Terphenyl-d14 (SUR)		244	23.169	23.180	(0.928)	2375817	45.5012	3400
61 Benzo(a)anthracene		228	24.938	24.949	(0.999)	16604	0.24234	18 (a)
* 81 Chrysene-d12		240	24.958	24.980	(1.000)	2477301	40.0000	
62 Chrysene		228	24.999	25.031	(1.002)	11231	0.17676	13 (a)

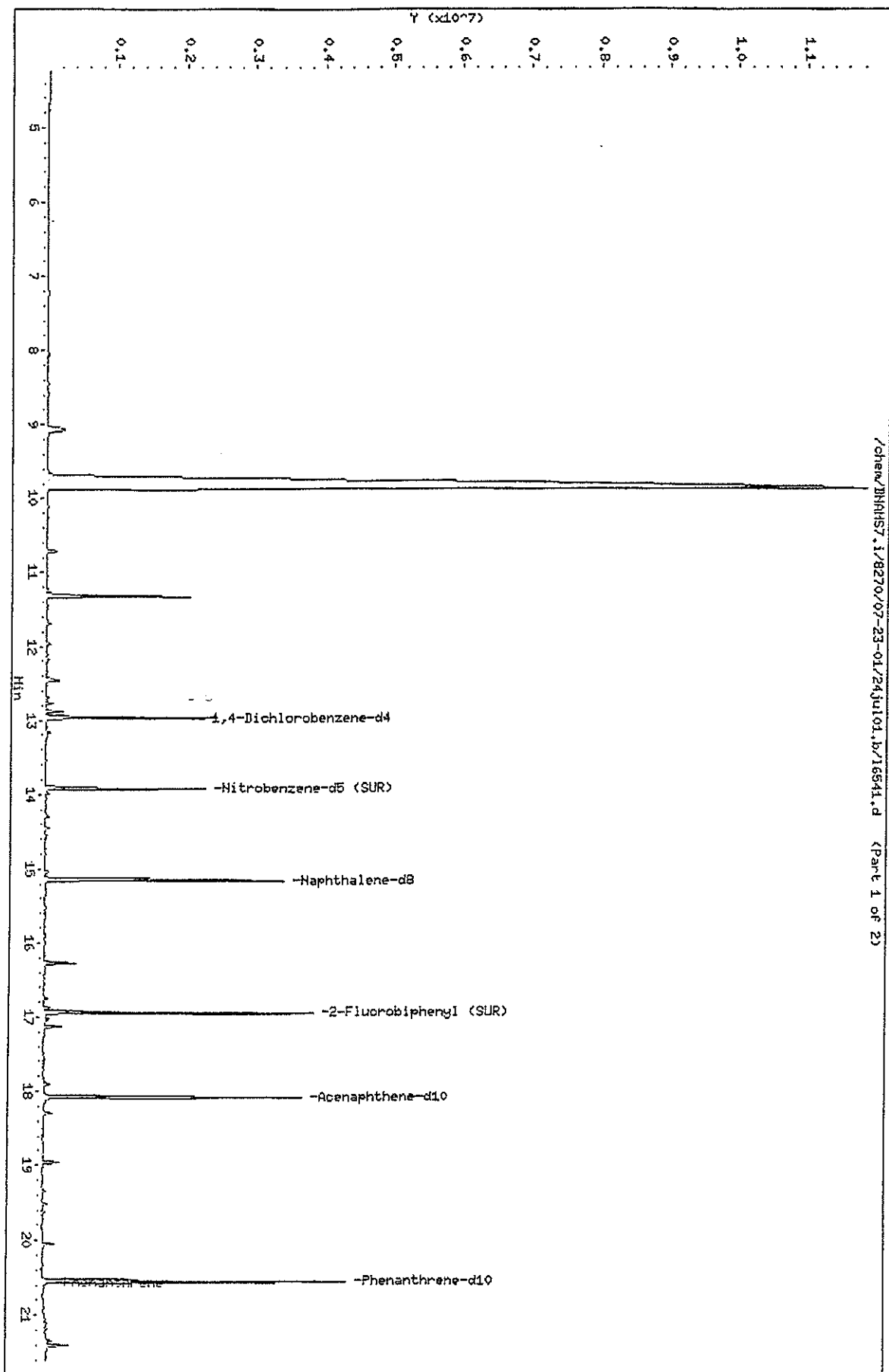
Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
						(ug/ml)	(ug/Kg)	
65 Benzo(b)fluoranthene	252	27.320	27.372	(0.959)	14882	0.21696	16 (a)	
66 Benzo(k)fluoranthene	252	27.382	27.454	(0.962)	6385	0.10084	7.6 (aM)	
67 Benzo(a)pyrene	252	28.261	28.323	(0.992)	9221	0.14552	11 (a)	
* 84 Perylene-d12	264	28.476	28.497	(1.000)	2406480	40.0000		
68 Indeno(1,2,3-cd)pyrene	276	32.545	32.679	(1.143)	6782	0.10289	7.8 (aM)	
70 Benzo(g,h,i)perylene	276	33.813	34.009	(1.187)	7362	0.10856	8.2 (a)	

QC Flag Legend

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

Data File: /chem/BHHS7.1/8270/07-23-01/24jul01.b/16541.d
Date : 24-JUL-2001 10:26
Client ID: SB-7
Sample Info: 28024430j2j1j12
Column phase: DB-5

Instrument: BHHS7.1
Operator: BHHS 4
Column diameter: 0.25



Data File: /chem/BNAHS7.i/8270/07-23-01/24jul01.b/16541.d
Date : 24-JUL-2001 10:26

Client ID: SB-7

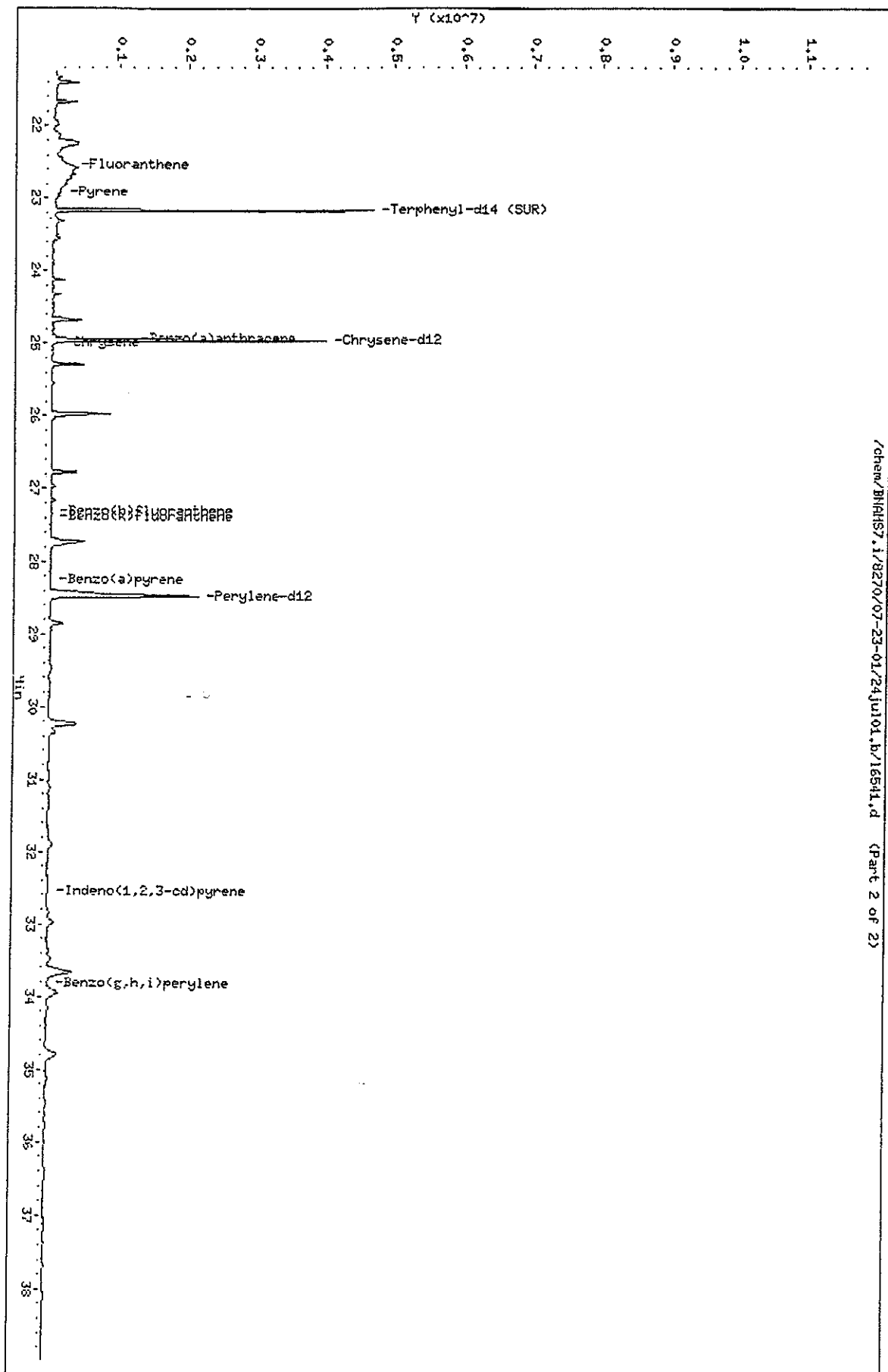
Sample Info: 289214;30;2;1;12

Column phase: DB-5

Instrument: BNAHS7.i

Operator: BNAHS 4

Column diameter: 0.25



Data File: /chem/BNAMS7.1/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNAMS7.1

Sample Info: 289214;30;2;1;12

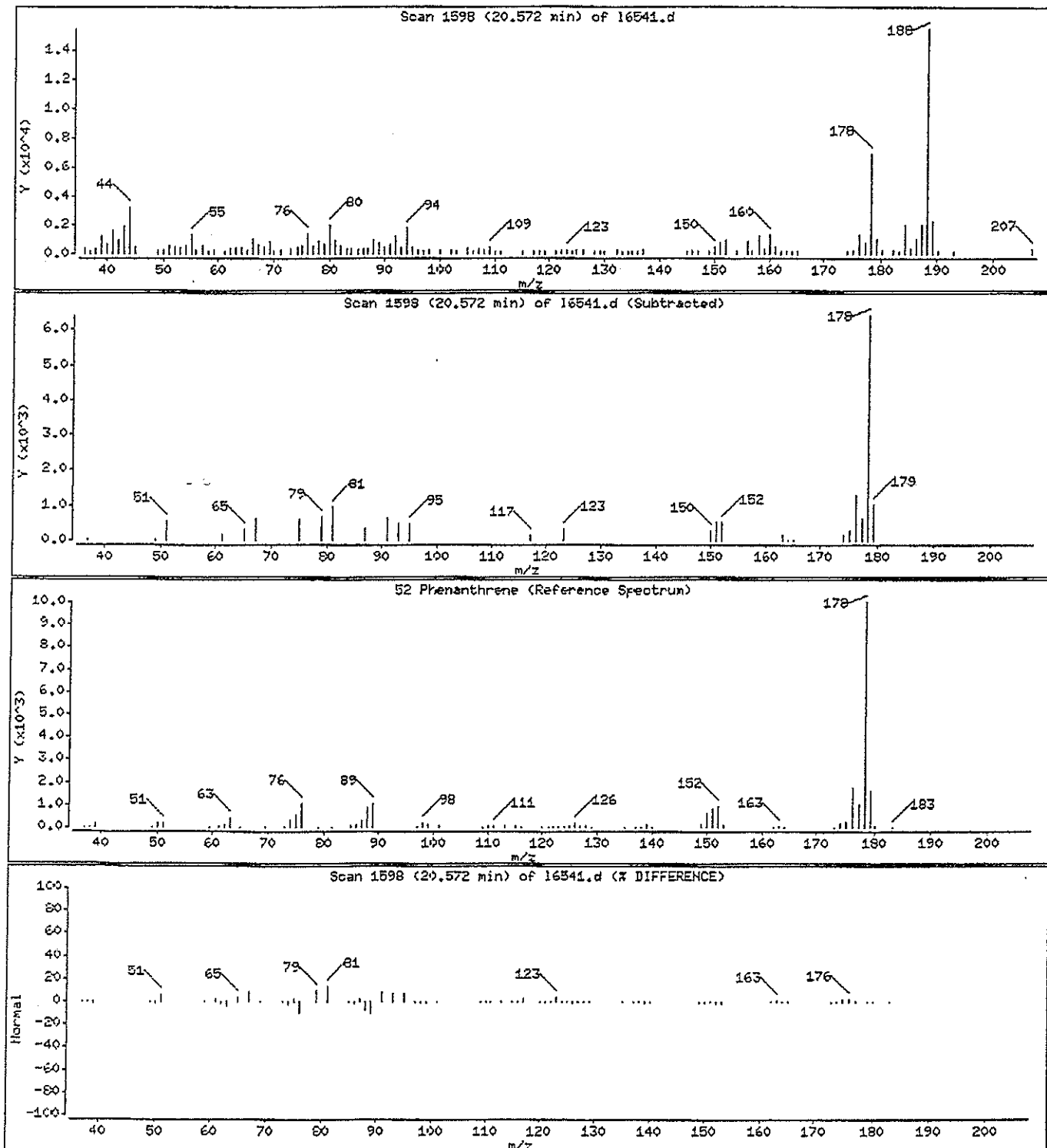
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 12 ug/Kg



Data File: /chem/BHAMS7.i/S270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: ENAMS7.i

Sample Info: 289214;30;2;1;12

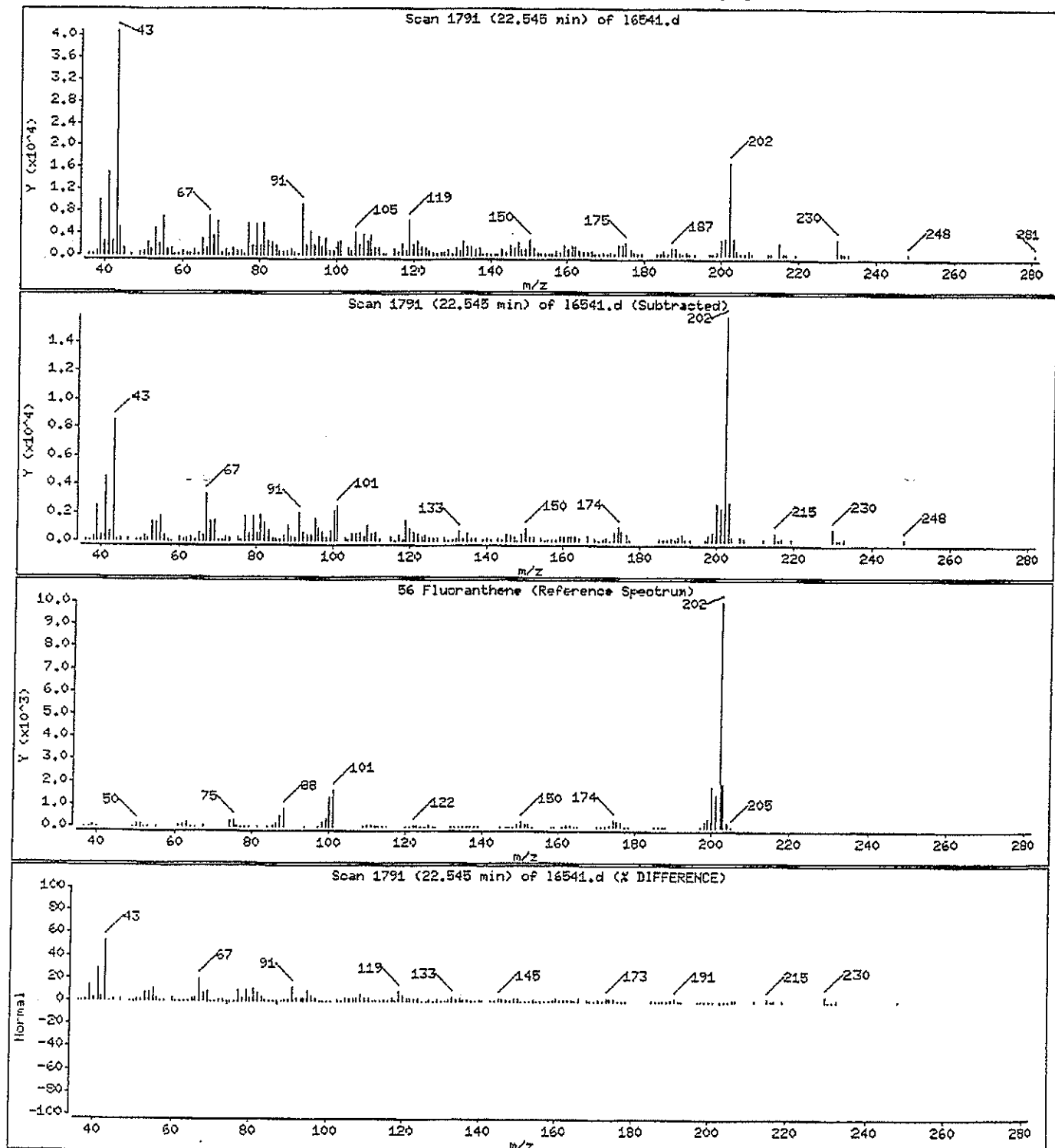
Operator: BHAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 26 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: ENAMS7.1

Sample Info: 289214;30;2;1;12

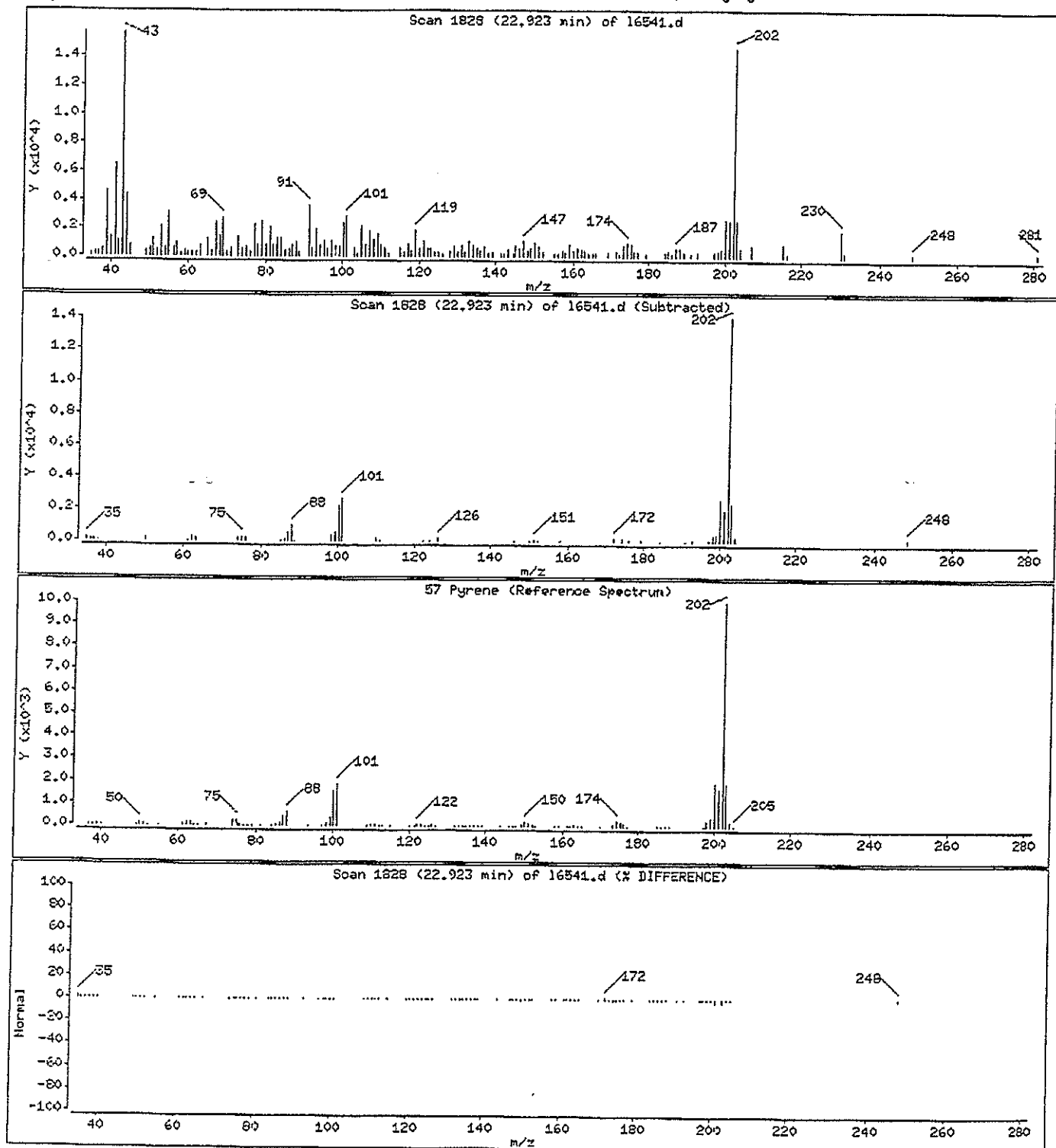
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 22 ug/Kg



Data File: /chem/BNH57.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: INH57.i

Sample Info: 289214;30;2;1;12

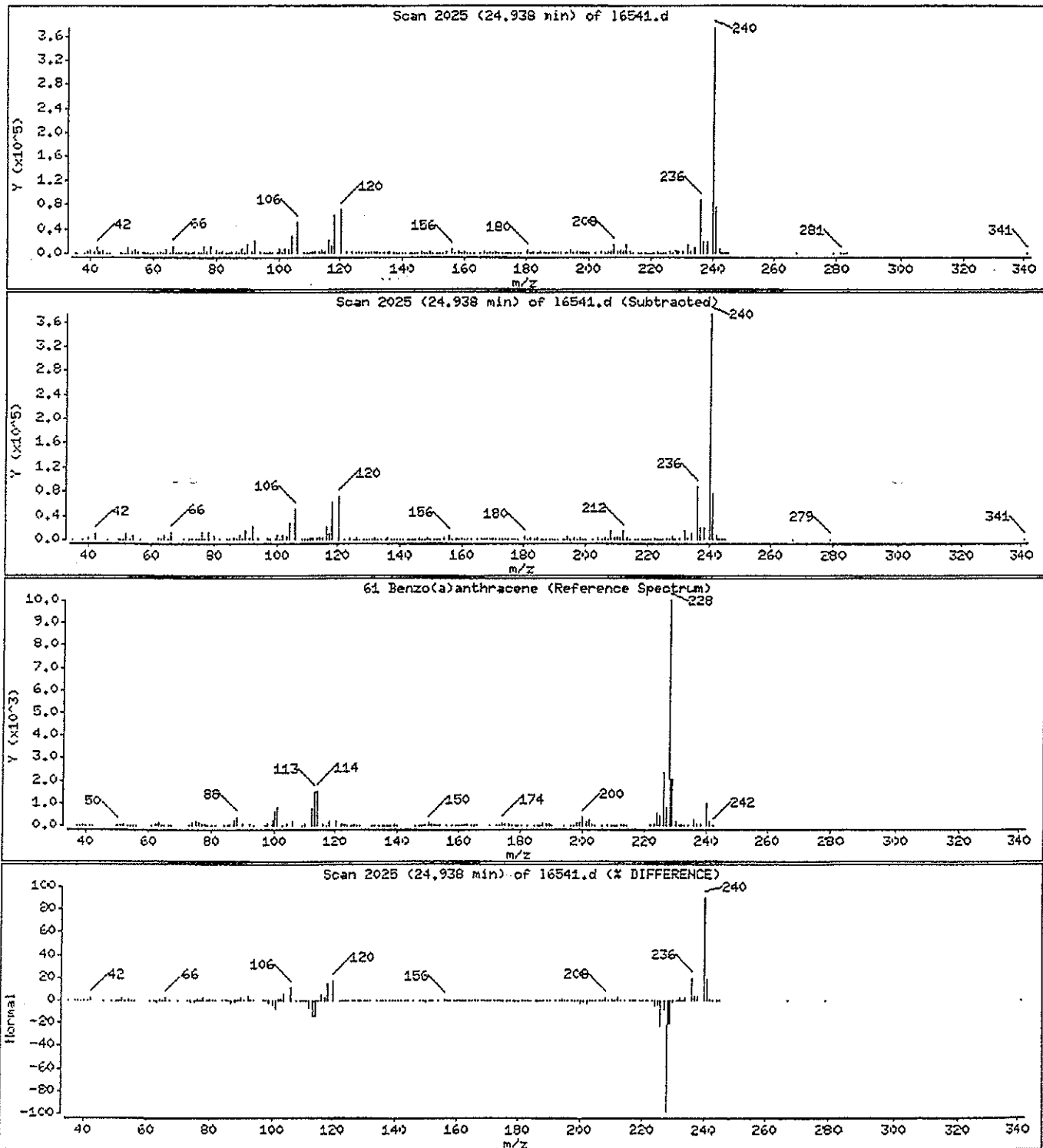
Operator: BNH5 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 18 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNAMS7.i

Sample Info: 289214;30;2;1;12

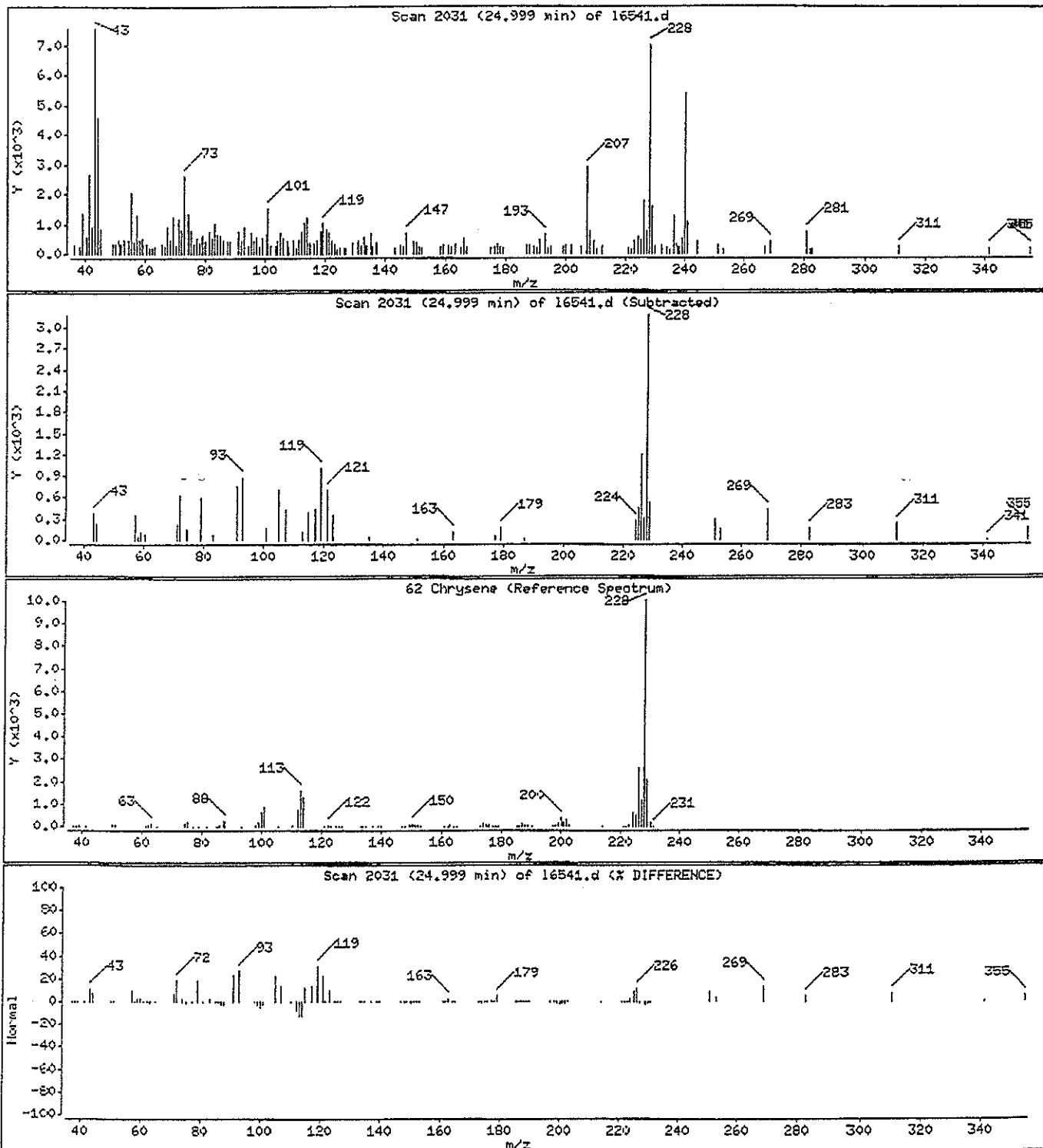
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 13 ug/Kg



Data File: /chem/BNHMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNHMS7.i

Sample Info: 289214;30;2;1;12

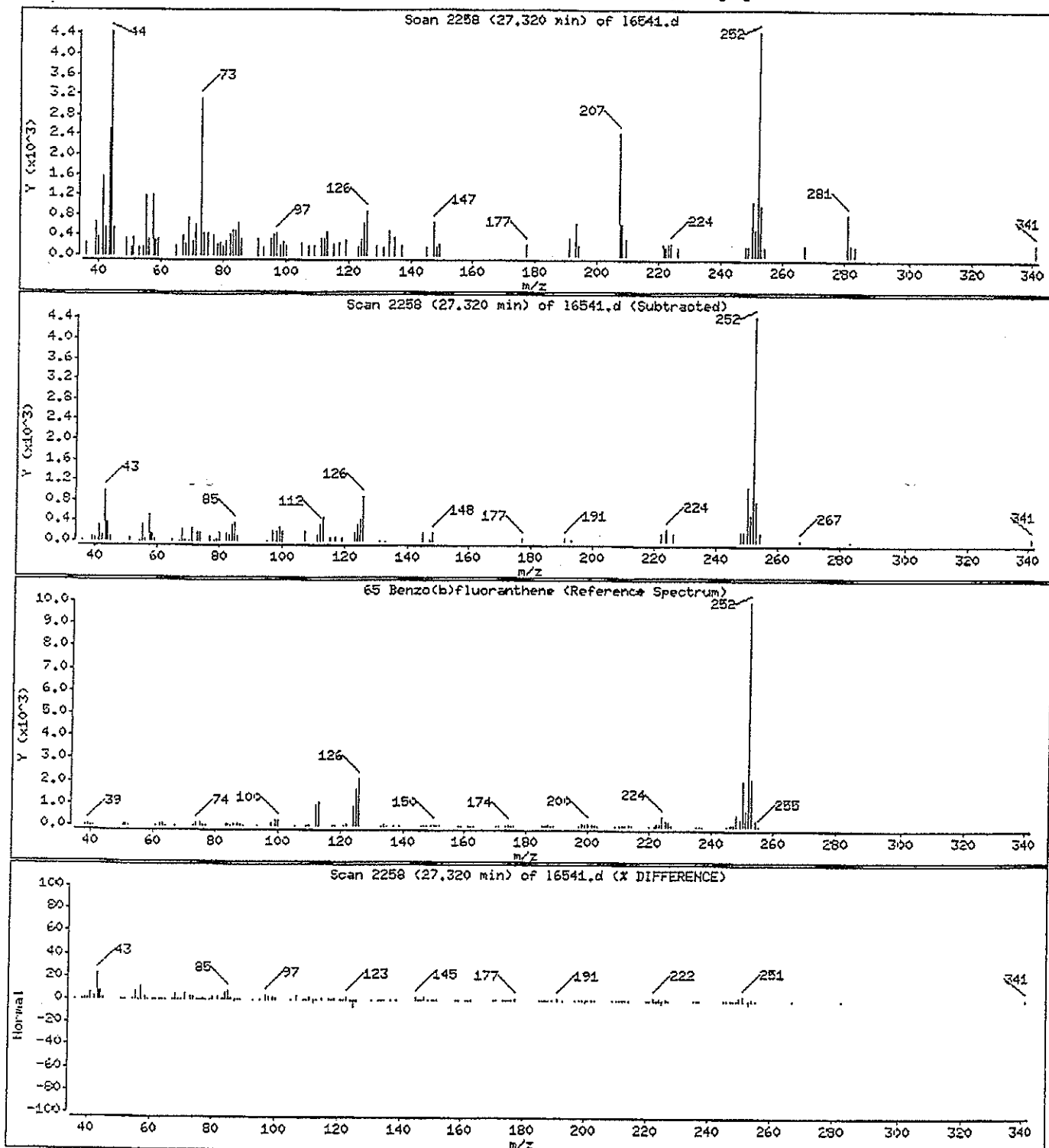
Operator: BNHMS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 16 ug/Kg



Data File: /chem/BNAMS7.i/6270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNAMS7.i

Sample Info: 289214;30;2;1;12

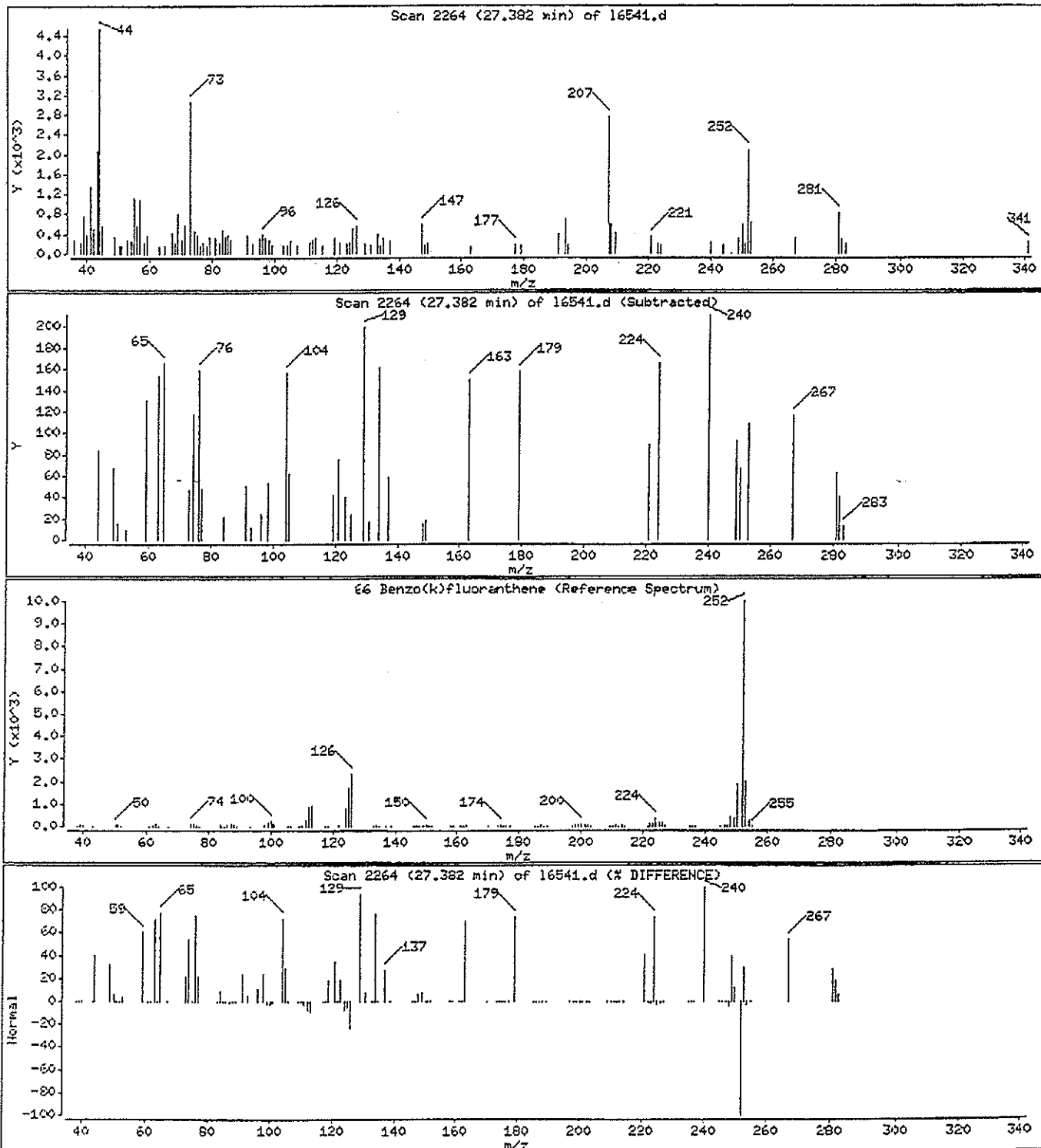
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 7.6 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNAMS7.i

Sample Info: 289214;30;2;1;12

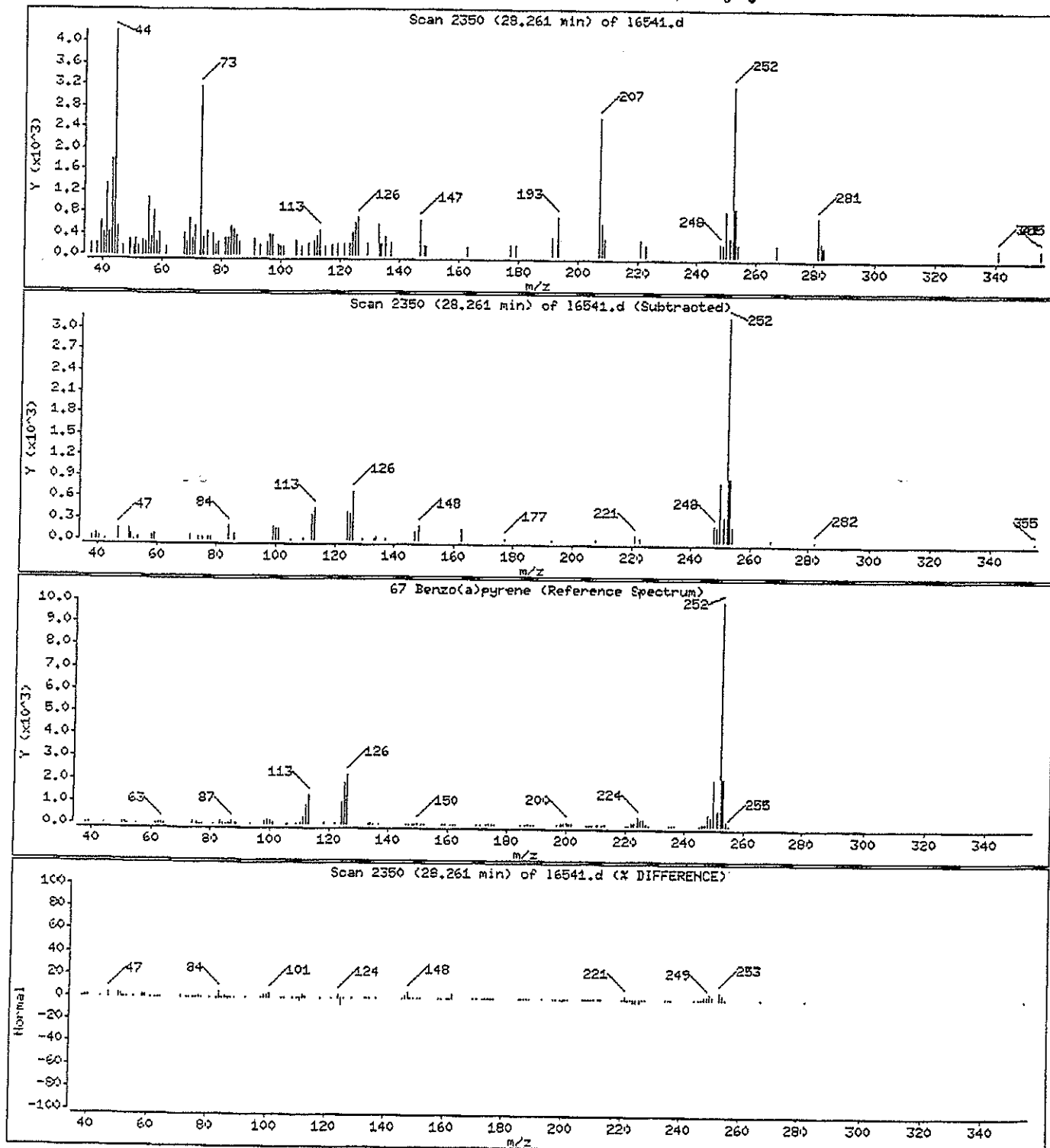
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 11 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: BNAMS7.i

Sample Info: 289214;30;2;1;12

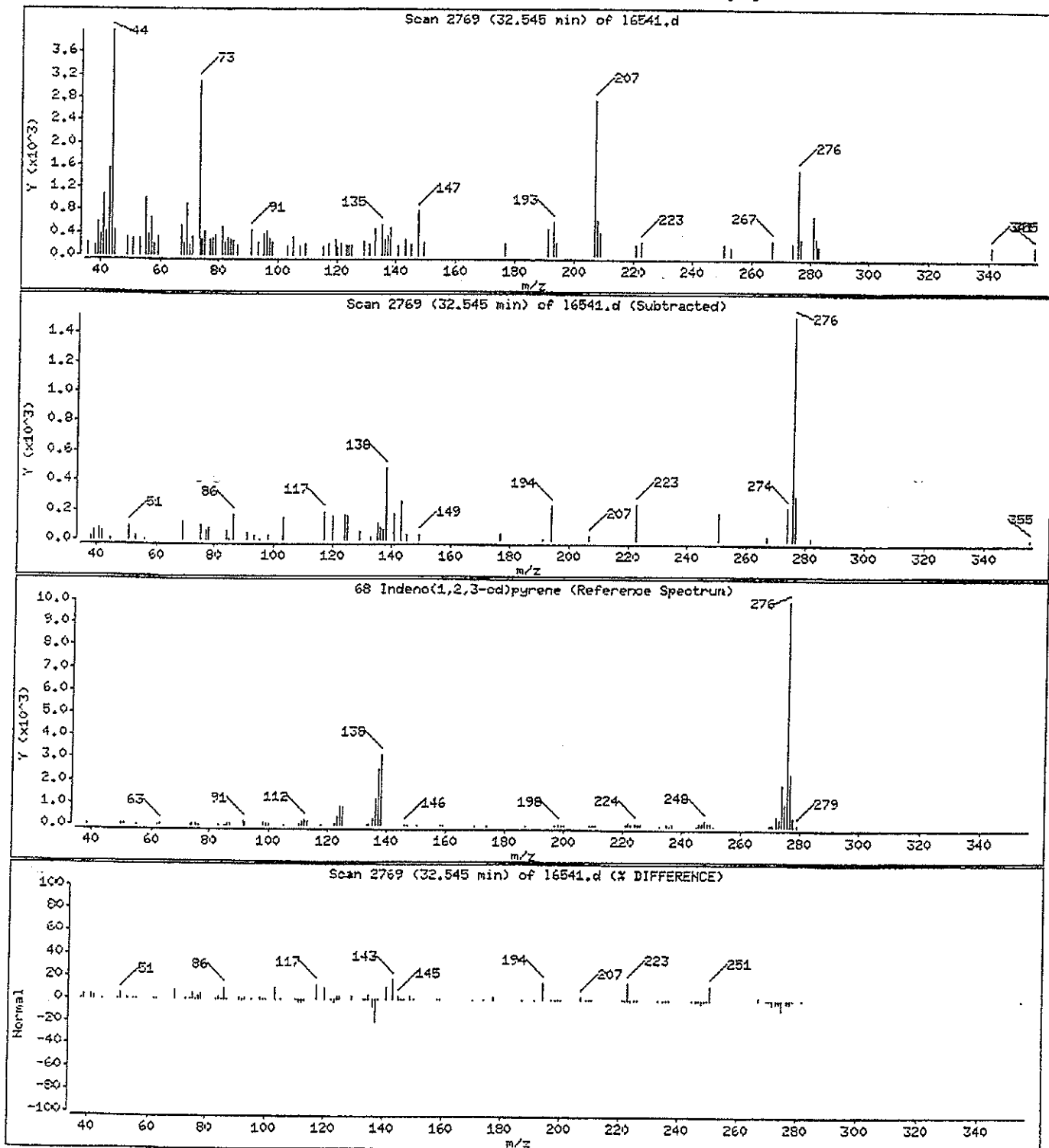
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 7.8 ug/Kg



Data File: /chem/BHAMS7.i/8270/07-23-01/24jul01.b/16541.d

Date : 24-JUL-2001 10:26

Client ID: SB-7

Instrument: ENAM57.1

Sample Info: 289214;30;2;1;12

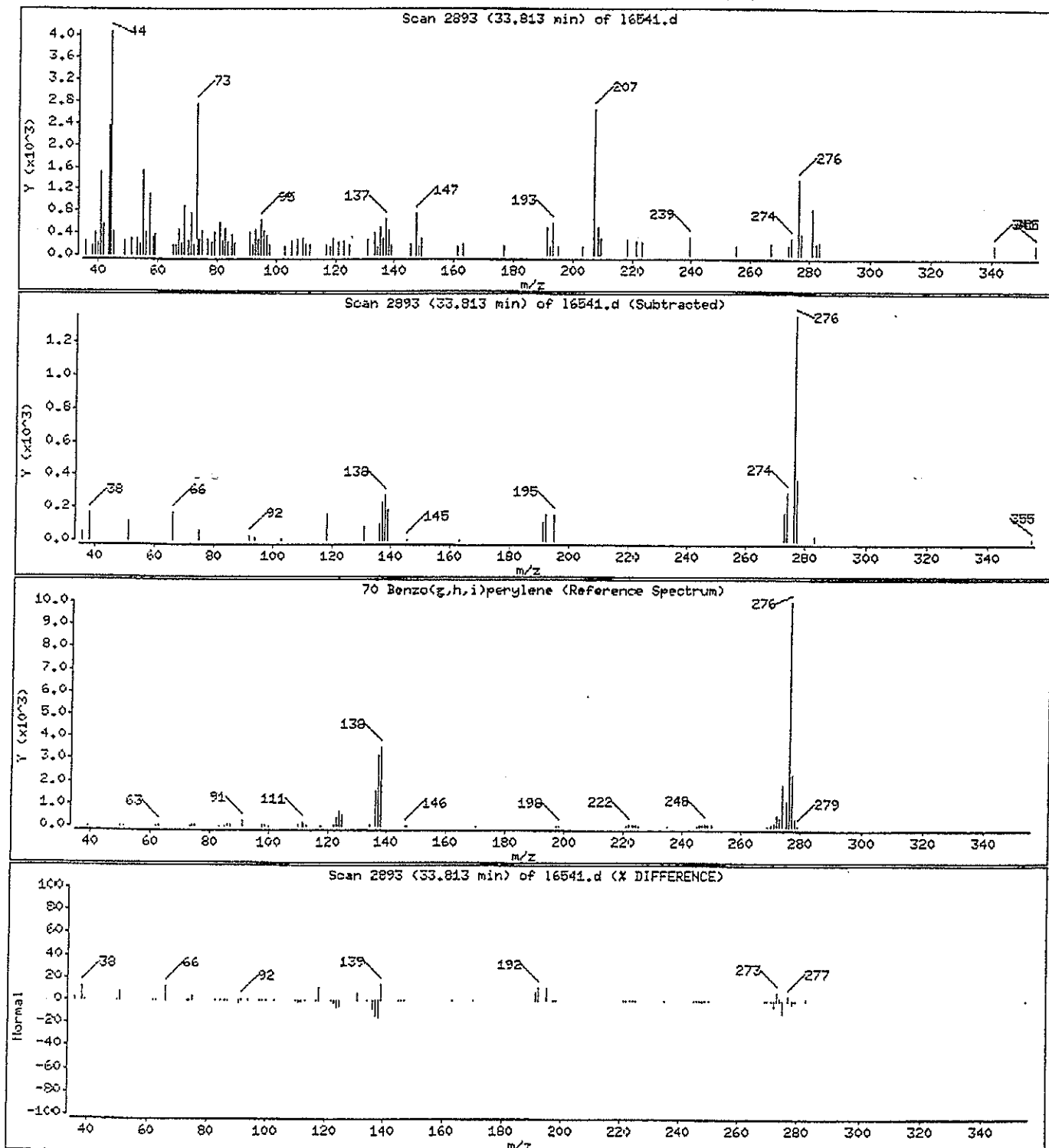
Operator: BHAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 8.2 ug/Kg



Client ID: SB-8
Site: NJDOT Credit Union

Lab Sample No: 289215
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16542.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 16

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Naphthalene	ND	400
Acenaphthylene	ND	400
Acenaphthene	ND	400
Fluorene	ND	400
Phenanthrene	ND	400
Anthracene	ND	400
Fluoranthene	ND	400
Pyrene	ND	400
Benzo(a)anthracene	ND	40
Chrysene	ND	400
Benzo(b)fluoranthene	ND	40
Benzo(k)fluoranthene	ND	40
Benzo(a)pyrene	ND	40
Indeno(1,2,3-cd)pyrene	ND	40
Dibenz(a,h)anthracene	ND	40
Benzo(g,h,i)perylene	ND	400

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/l6542.d
Report Date: 25-Jul-2001 07:55

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/l6542.d
Lab Smp Id: 289215 Client Smp ID: SB-8
Inj Date : 24-JUL-2001 11:17
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289215;30;2;1;15.7
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: l6519.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1
Compound Sublist: PPPAHb.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	15.70000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.965	12.965	(1.000)	549009	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	13.916	13.927	(0.919)	799394	42.2079	3300
* 80 Naphthalene-d8	136	15.143	15.143	(1.000)	2095315	40.0000	
G 77 2-Fluorobiphenyl (SUR)	172	16.932	16.943	(0.937)	1501263	41.1241	3200
* 82 Acenaphthene-d10	164	18.067	18.078	(1.000)	1232912	40.0000	
* 83 Phenanthrene-d10	188	20.542	20.552	(1.000)	2252915	40.0000	
\$ 78 Terphenyl-d14 (SUR)	244	23.169	23.180	(0.928)	2174674	42.9289	3400
* 81 Chrysene-d12	240	24.959	24.980	(1.000)	2403440	40.0000	
* 84 Perylene-d12	264	28.476	28.497	(1.000)	2405956	40.0000	

Data File: /chem/BNHHS7.i/8270/07-23-01/24jul01.b/16542.d

Date : 24-JUL-2001 11:17

Client ID: SB-8

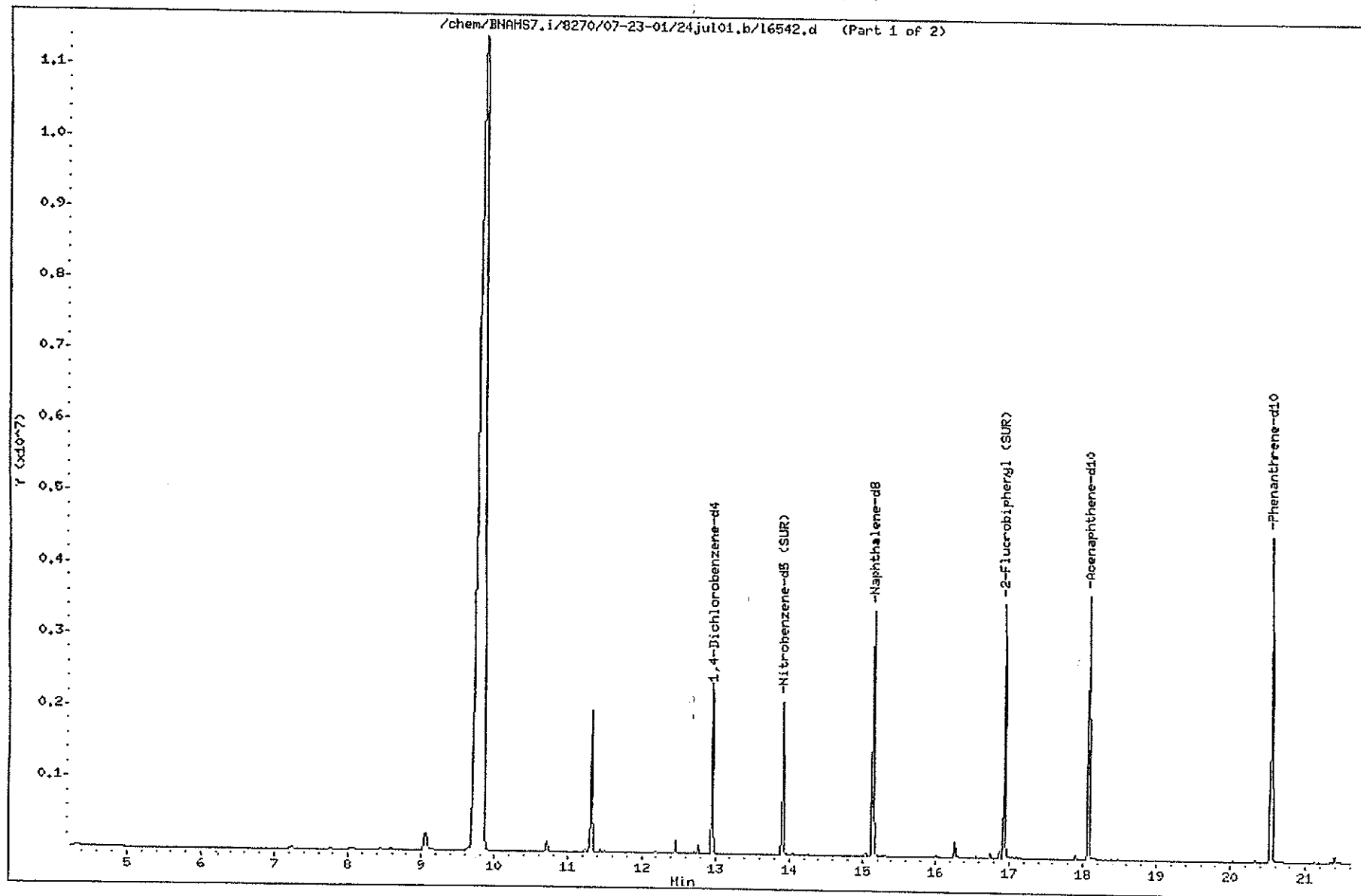
Sample Info: 289215;30;2;1;15.7

Instrument: BNHHS7.i

Operator: BNHHS 4

Column diameter: 0.25

Column phase: DB-5



Data File: /chem/BNHNS7.i/8270/07-23-01/24jul01.b/16542.d

Date : 24-JUL-2001 11:17

Client ID: SB-8

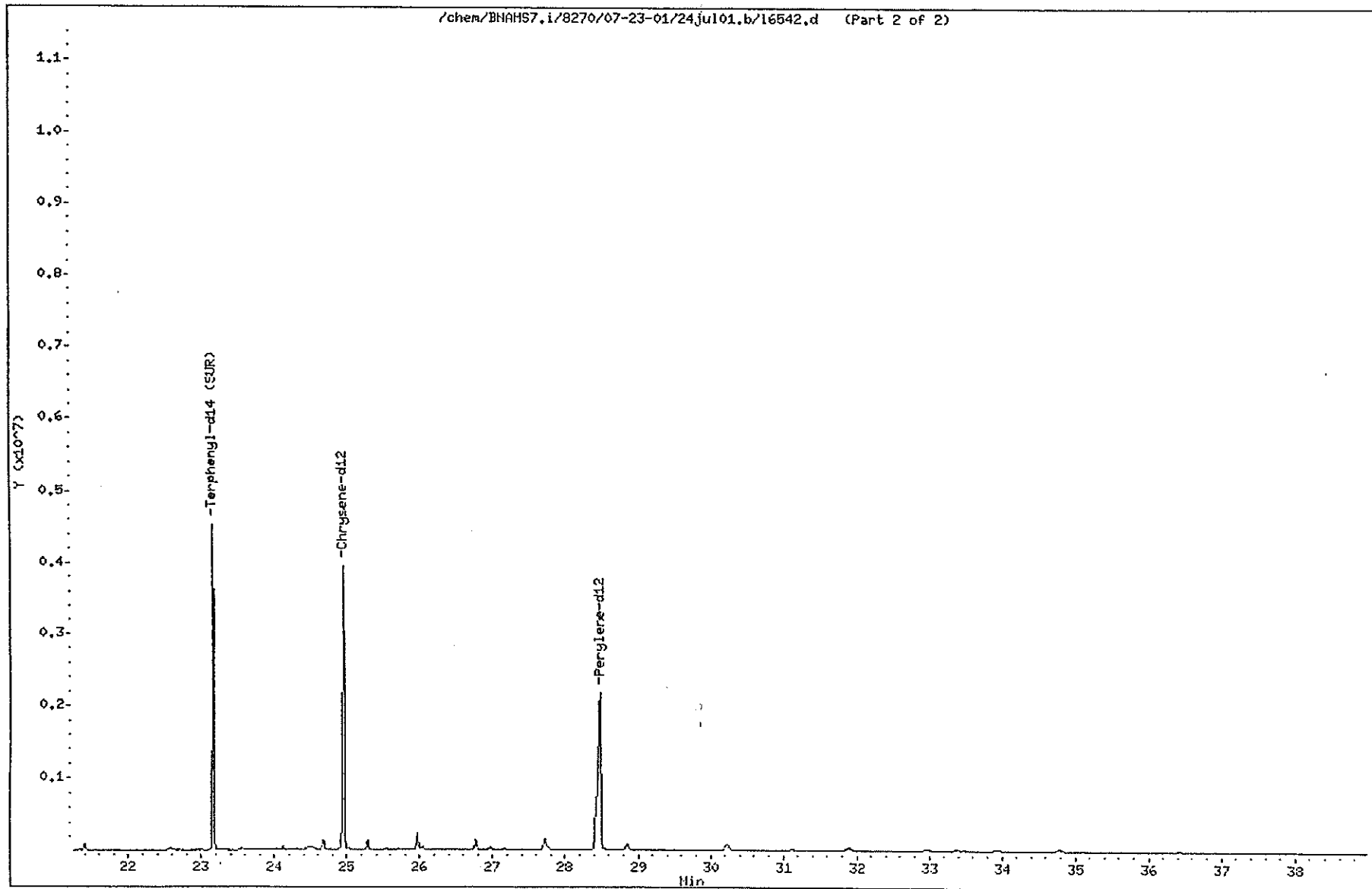
Sample Info: 289215;30;2;1;15,7

Instrument: BNHNS7.i

Operator: BNHNS 4

Column diameter: 0,25

Column phase: DB-5



Client ID: SB-9
Site: NJDOT Credit Union

Lab Sample No: 289216
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/21/01
Date Analyzed: 07/24/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16543.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 17

PAH - GC/MS
METHOD 8270C

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u> <u>Units: ug/kg</u>
Naphthalene	ND		400
Acenaphthylene	ND		400
Acenaphthene	ND		400
Fluorene	ND		400
Phenanthrene	19 J		400
Anthracene	ND		400
Fluoranthene	29 J		400
Pyrene	30 J		400
Benzo(a)anthracene	25 J		40
Chrysene	18 J		400
Benzo(b)fluoranthene	21 J		40
Benzo(k)fluoranthene	12 J		40
Benzo(a)pyrene	17 J		40
Indeno(1,2,3-cd)pyrene	13 J		40
Dibenz(a,h)anthracene	ND		40
Benzo(g,h,i)perylene	12 J		400

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d
Report Date: 25-Jul-2001 07:56

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS

Data file : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d
Lab Smp Id: 289216 Client Smp ID: SB-9
Inj Date : 24-JUL-2001 12:07
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : 289216;30;2;1;16.8
Misc Info : M838;PAH;7652;120;
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/24jul01.b/8270c1.m
Meth Date : 24-Jul-2001 06:58 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1

Compound Sublist: PPPAHb.sub

Concentration Formula: Amt * DF * Uf*1000*Vt/(Ws*(100-M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	16.80000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.957	12.965	(1.000)	582924	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	13.919	13.927	(0.919)	885789	43.7213	3500
* 80 Naphthalene-d8	136	15.146	15.143	(1.000)	2241396	40.0000	
\$ 77 2-Fluorobiphenyl (SUR)	172	16.935	16.943	(0.937)	1662510	43.0674	3400
* 82 Acenaphthene-d10	164	18.070	18.078	(1.000)	1303727	40.0000	
* 83 Phenanthrene-d10	188	20.544	20.552	(1.000)	2402734	40.0000	
52 Phenanthrene	178	20.575	20.593	(1.001)	14035	0.23516	19(a)
56 Fluoranthene	202	22.549	22.567	(1.098)	24473	0.35960	29(a)
57 Pyrene	202	22.927	22.945	(0.918)	26970	0.36982	30(a)
\$ 78 Terphenyl-d14 (SUR)	244	23.172	23.180	(0.928)	2316224	42.8010	3400
61 Benzo(a)anthracene	228	24.941	24.949	(0.999)	22142	0.31182	25(a)
* 81 Chrysene-d12	240	24.962	24.980	(1.000)	2567525	40.0000	
62 Chrysene	228	25.003	25.031	(1.002)	15073	0.22889	18(a)

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS						ON-COLUMN	FINAL
							(ug/ml)	(ug/Kg)
65 Benzo(b)fluoranthene	252		27.313	27.372	(0.959)	19511	0.26694	21 (aH)
66 Benzo(k)fluoranthene	252		27.385	27.454	(0.962)	10293	0.15255	12 (a)
67 Benzo(a)pyrene	252		28.264	28.323	(0.992)	14213	0.21050	17 (a)
* 84 Perylene-d12	264		28.479	28.497	(1.000)	2564269	40.0000	
68 Indeno(1,2,3-cd)pyrene	276		32.549	32.679	(1.143)	11332	0.16133	13 (a)
70 Benzo(g,h,i)perylene	276		33.827	34.009	(1.188)	11156	0.15439	12 (a)

QC Flag Legend

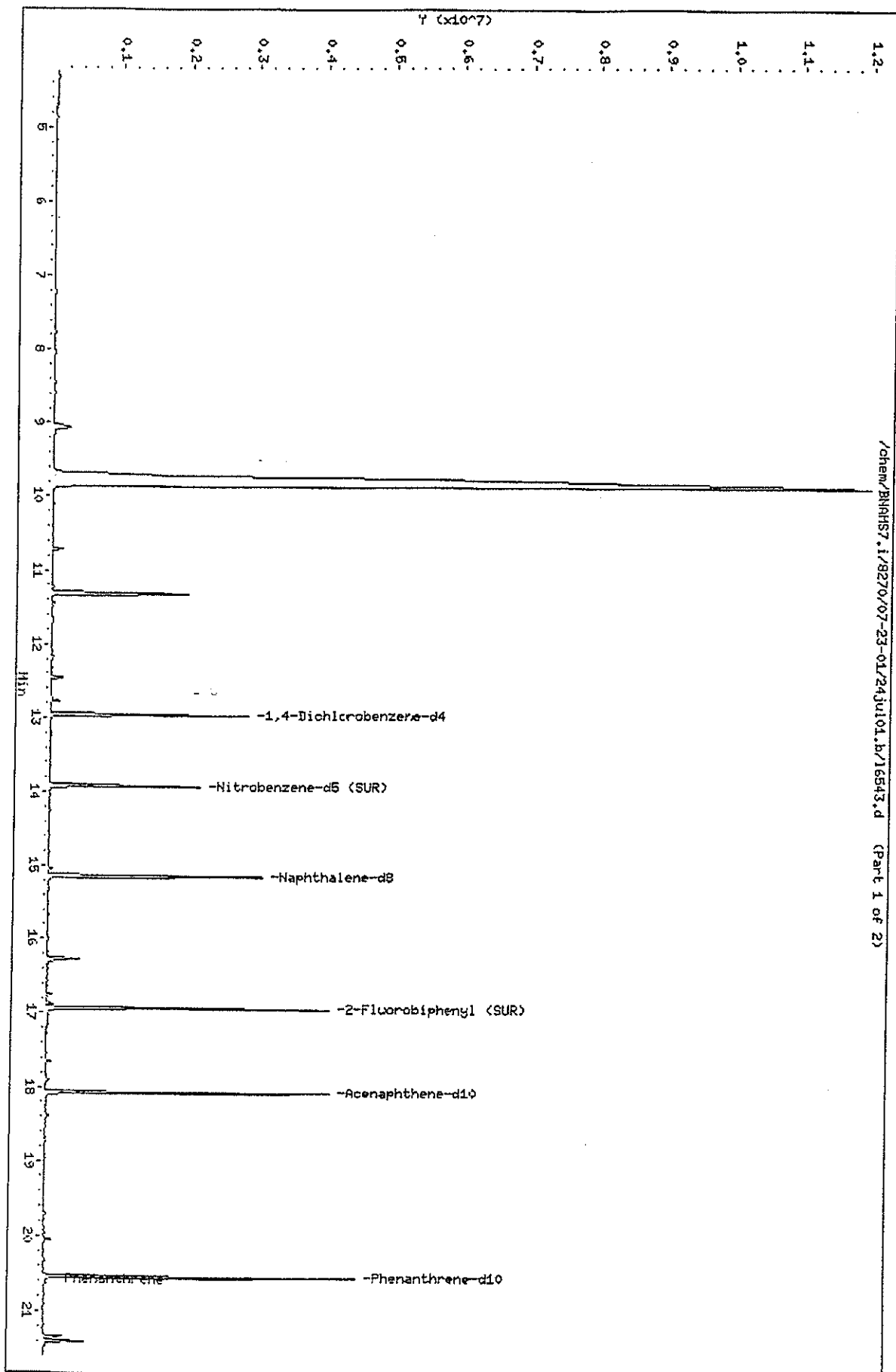
- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- H - Operator selected an alternate compound hit.

Data File: /chem/BNHHS7.i/8270/07-23-01/24jul01.b/16543.d
Date: 24-Jul-2001 12:07
Client ID: SB-9
Sample Info: 289216;30f211;16.8

Column phase: DB-5

Instrument: BNHHS7.i

Operator: BNHHS 4
Column diameter: 0.25



Data File: /chem/BNHHS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

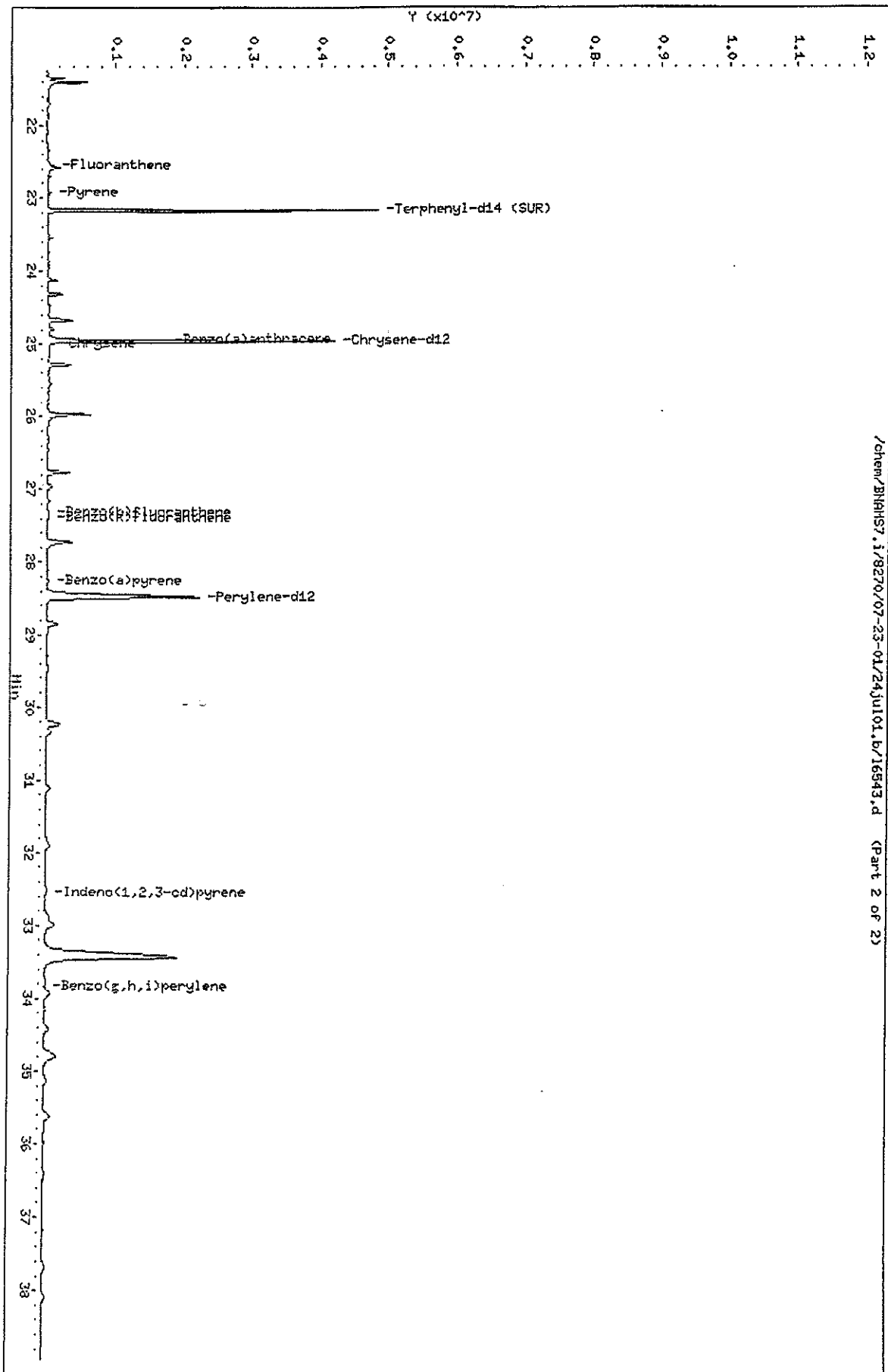
Sample Info: 289216/30/2/116.8

Column phase: DB-5

Instrument: BNHHS7.i

Operator: BNHHS 4

Column diameter: 0.25



Data File: /chem/BNABS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNABS7.i

Sample Info: 289216;30;2;1;16.8

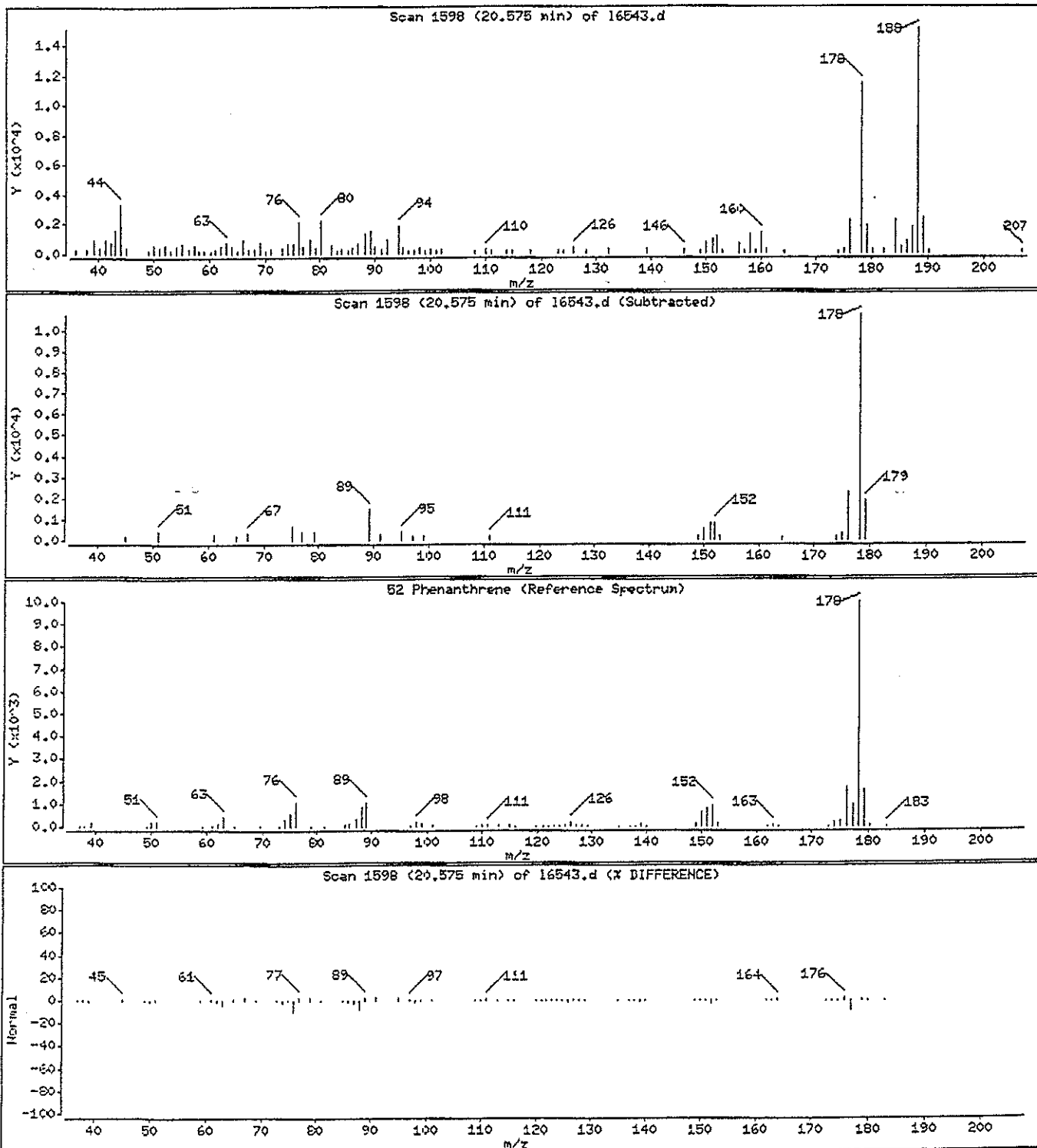
Operator: BNABS 4

Column phase: DB-5

Column diameter: 0.25

52 Phenanthrene

Concentration: 19 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNAMS7.i

Sample Info: 289216;30;2;1;16.8

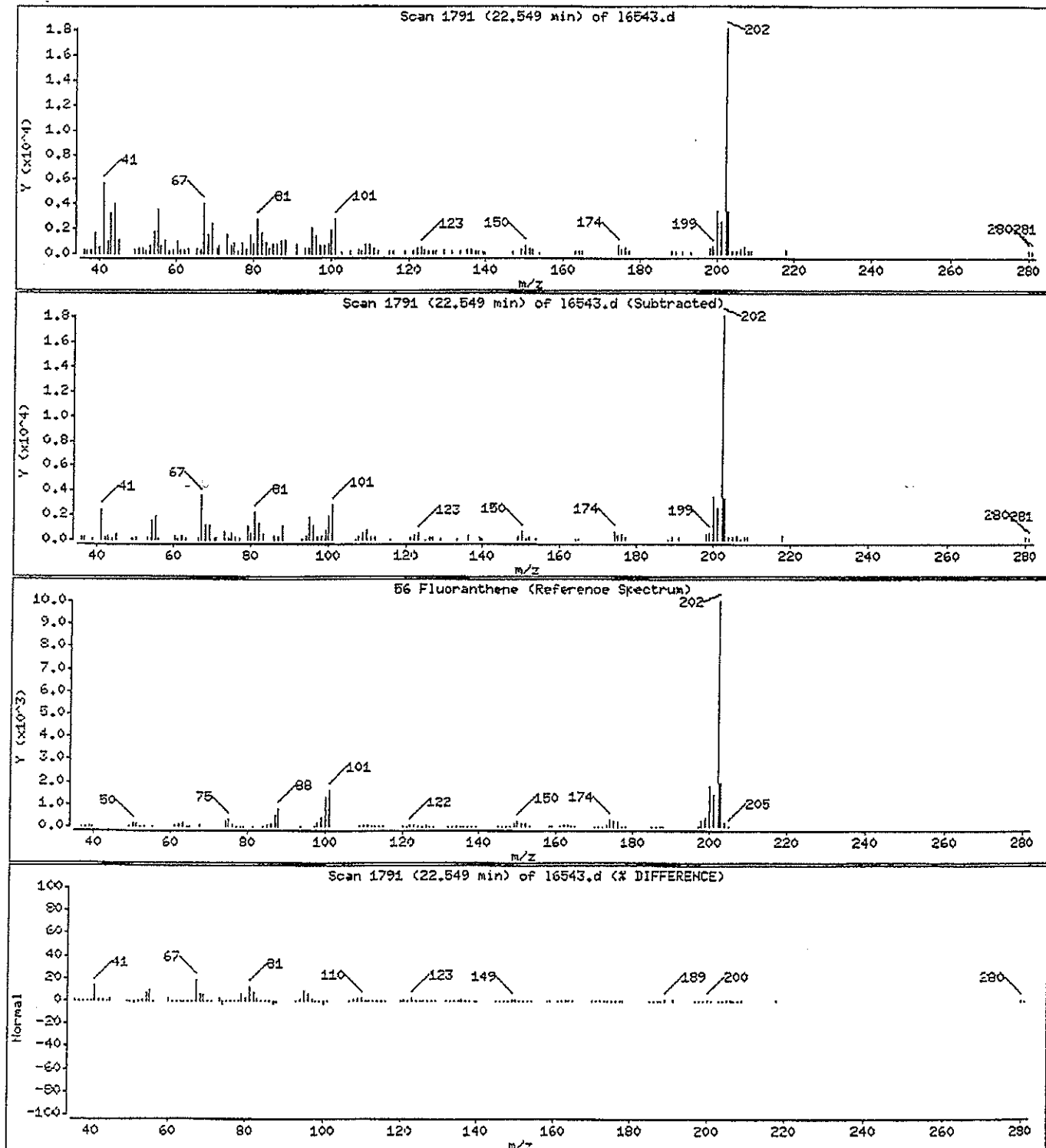
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

56 Fluoranthene

Concentration: 29 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNAMS7.i

Sample Info: 289216;30;2;1;16.8

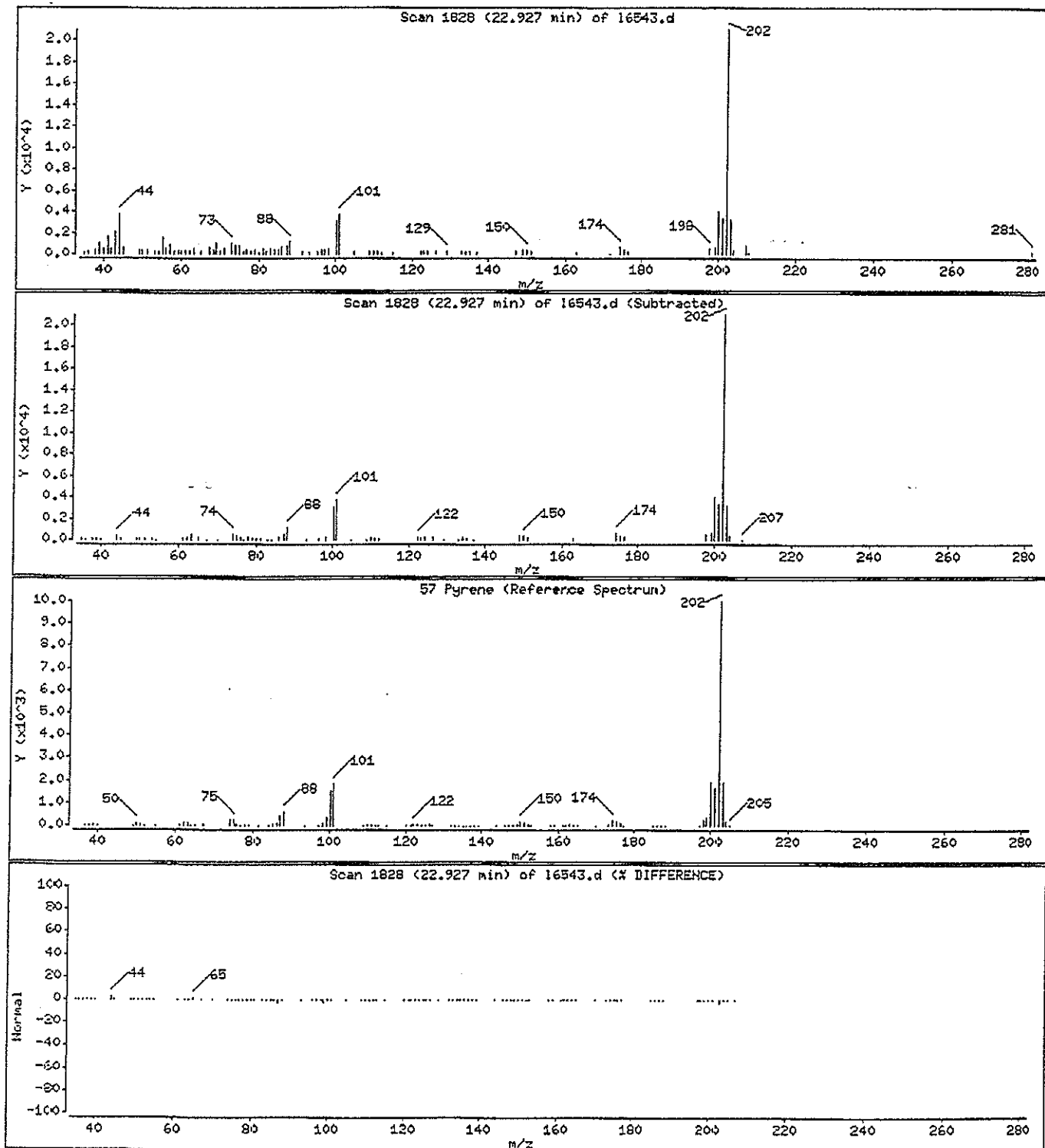
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

57 Pyrene

Concentration: 30 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date: 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNAMS7.i

Sample Info: 289216;30;2;1;16.8

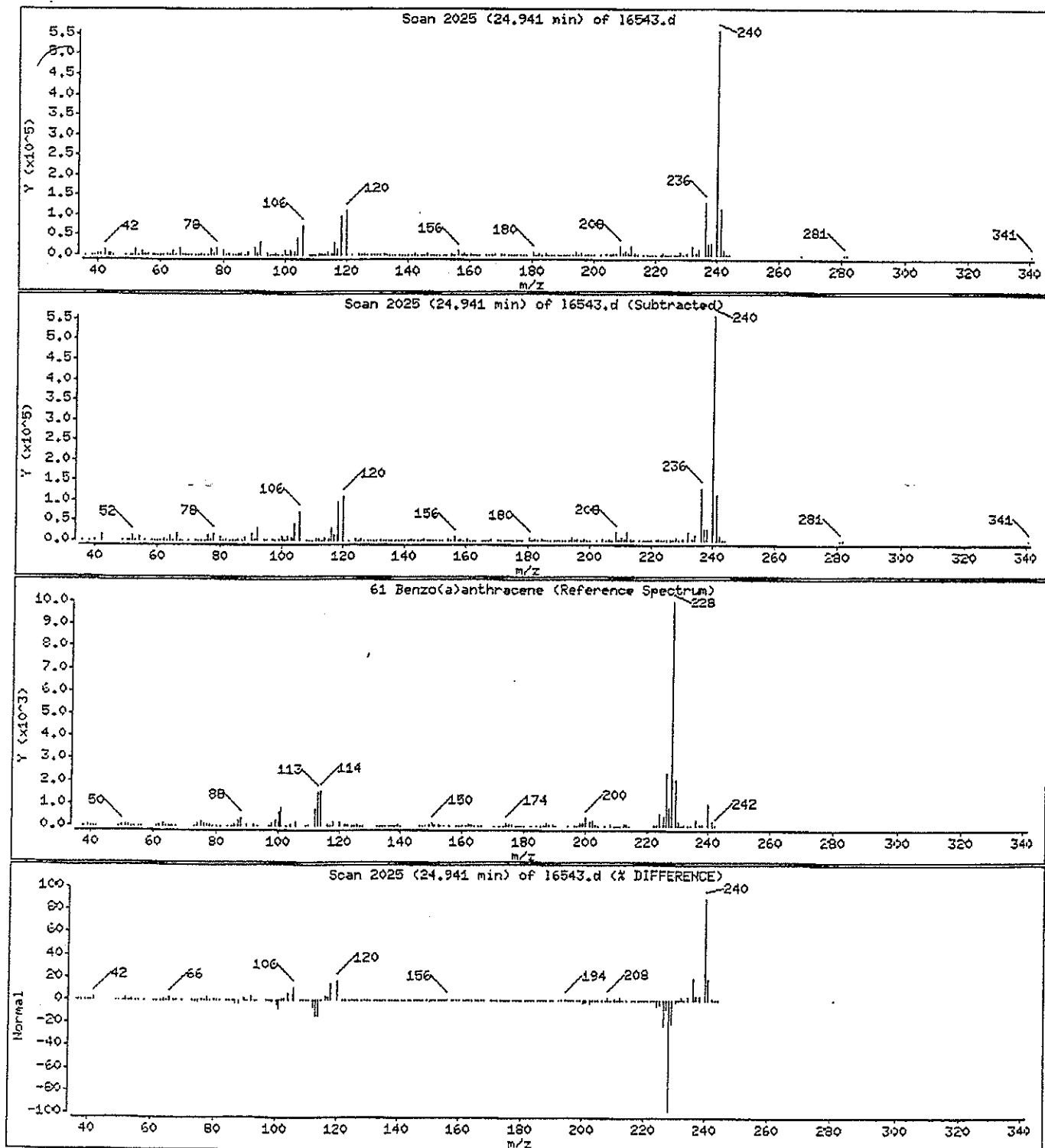
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

61 Benzo(a)anthracene

Concentration: 25 ug/Kg



Data File: /chem/BNAMS7.1/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:97

Client ID: SB-9

Instrument: BNAMS7.1

Sample Info: 289216;30;2;1;16.8

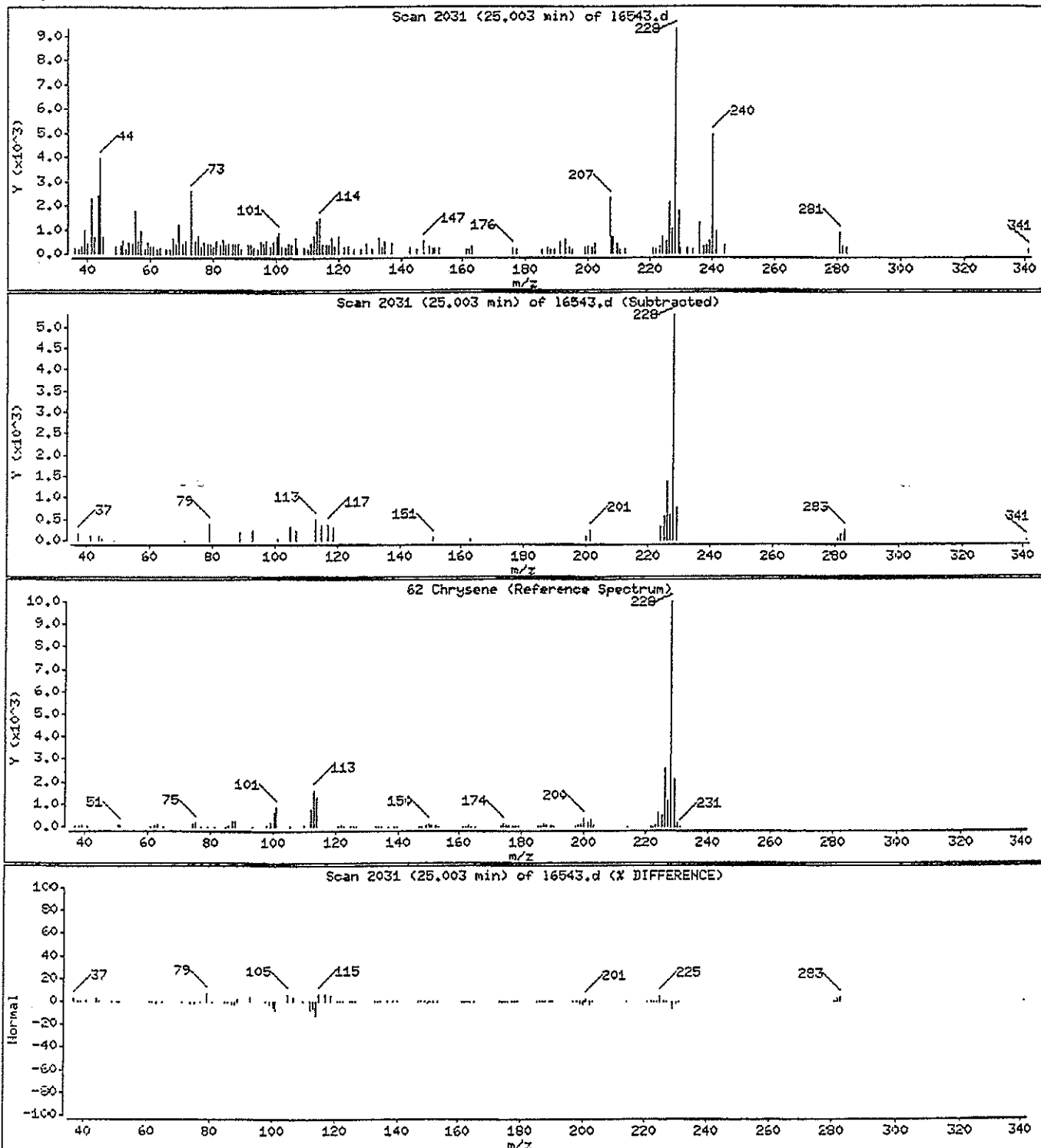
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

62 Chrysene

Concentration: 18 ug/Kg



Data File: /chem/BNABS7.1/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNABS7.1

Sample Info: 289216;30;2;1;16.8

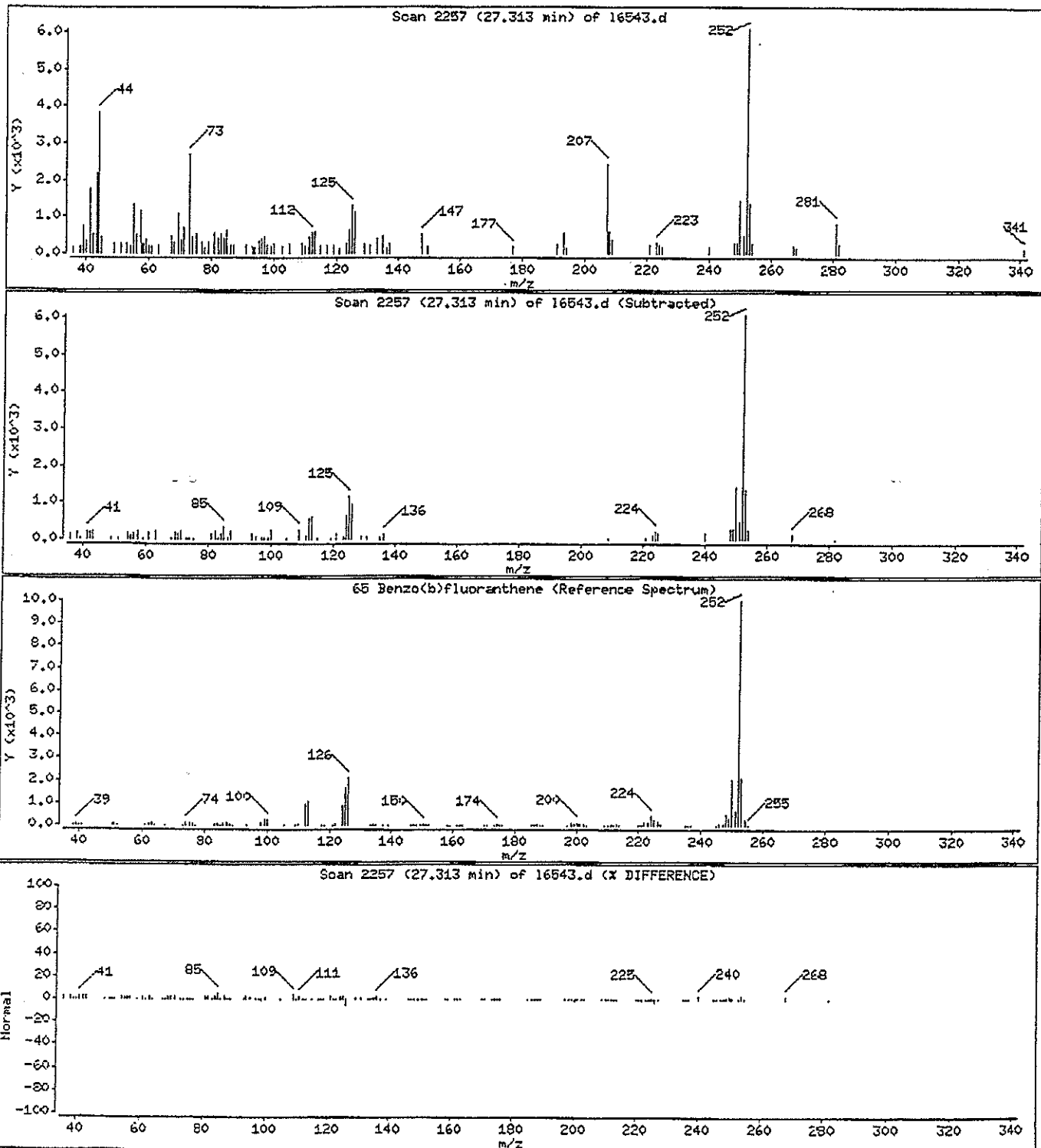
Operator: BNABS 4

Column phase: DB-5

Column diameter: 0.25

65 Benzo(b)fluoranthene

Concentration: 21 ug/Kg



Data File: /chem/BHAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Sample Info: 289216;30;2;1;16.8

Instrument: ENAMS7.i

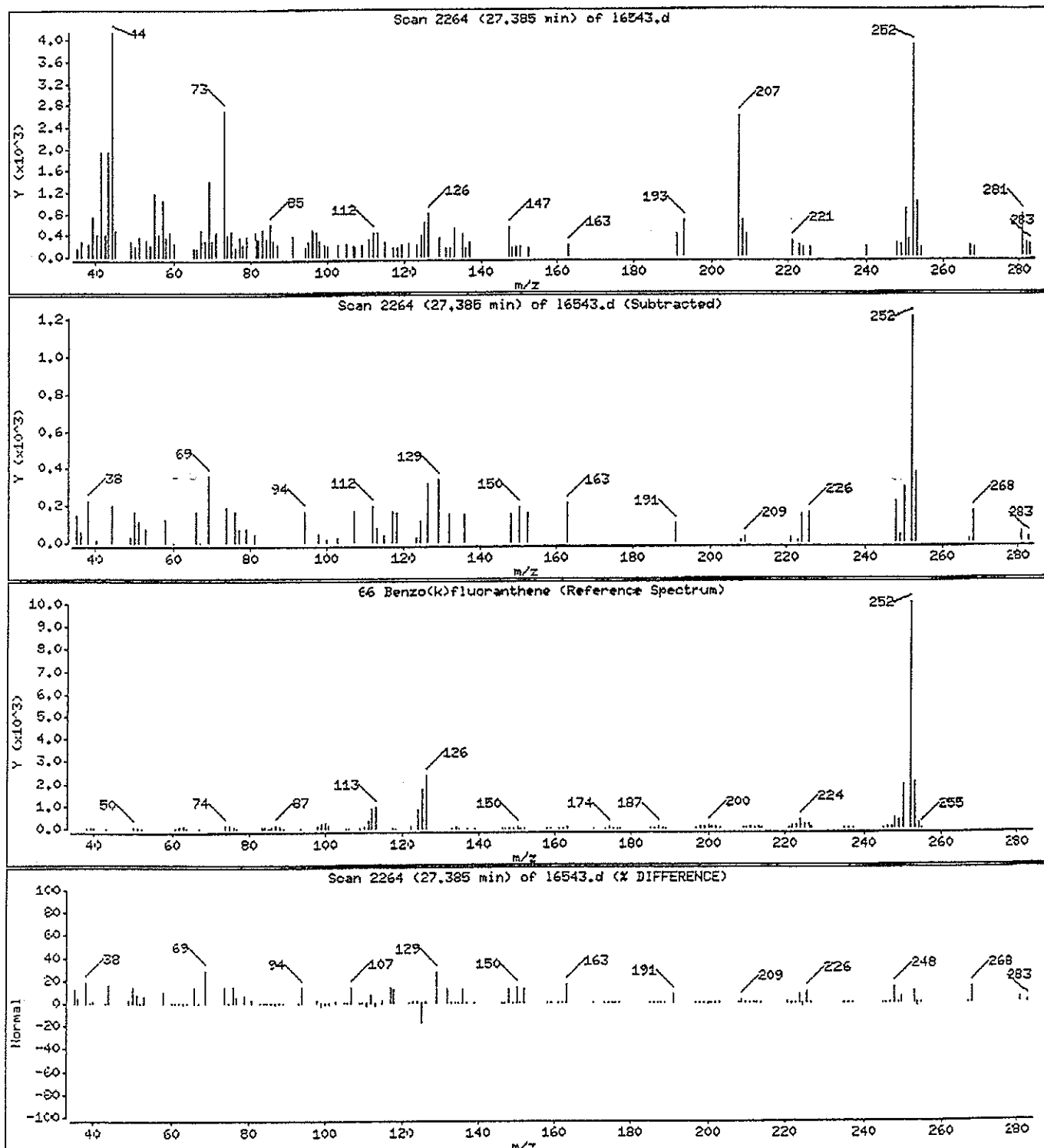
Operator: BHAMS 4

Column phase: DB-5

Column diameter: 0.25

66 Benzo(k)fluoranthene

Concentration: 12 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Sample Info: 289216;30;2;1;16.8

Instrument: BNAMS7.i

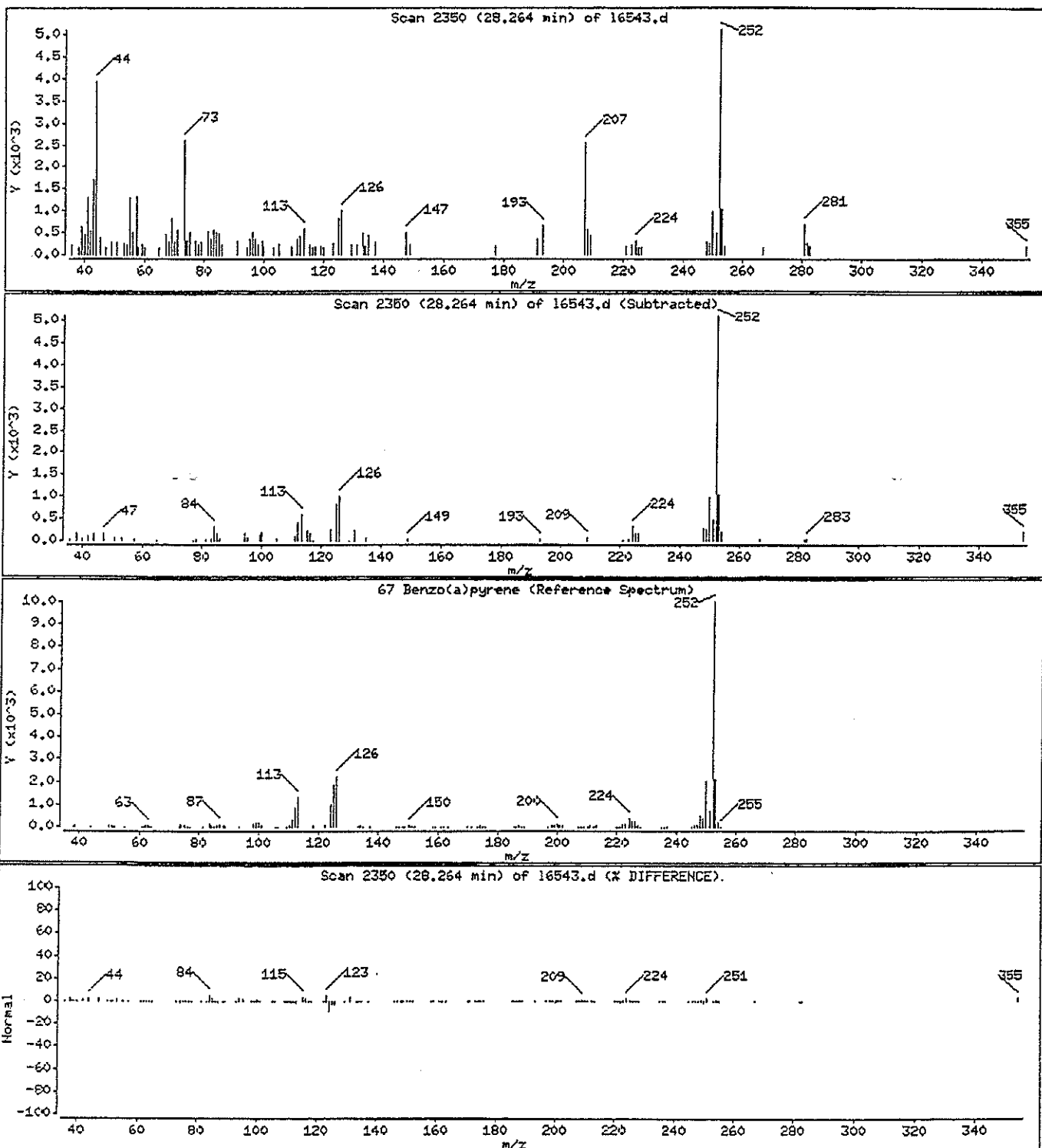
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

67 Benzo(a)pyrene

Concentration: 17 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNAMS7.i

Sample Info: 289216;30;2;1;16.8

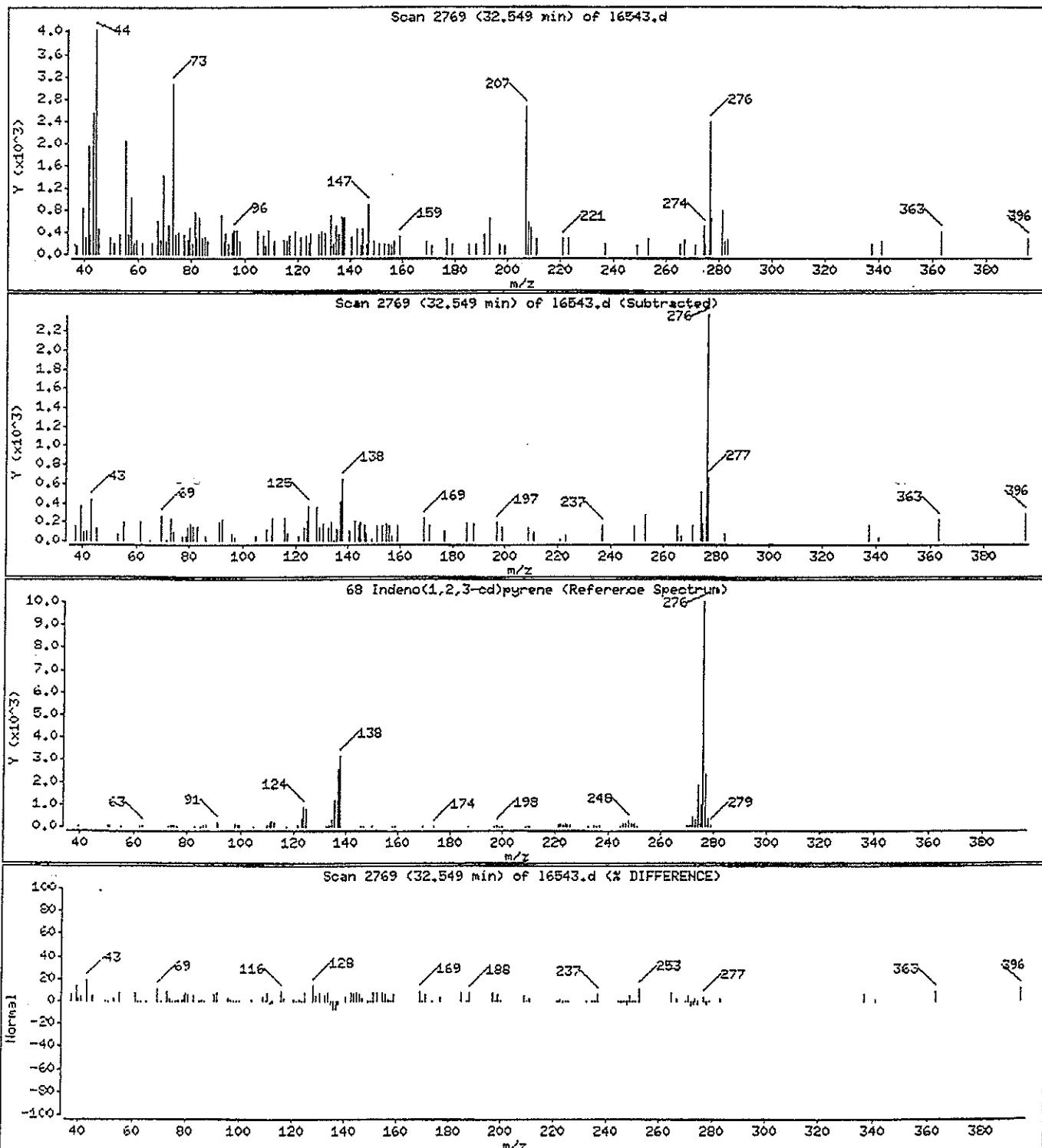
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

68 Indeno(1,2,3-cd)pyrene

Concentration: 13 ug/Kg



Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16543.d

Date : 24-JUL-2001 12:07

Client ID: SB-9

Instrument: BNAMS7.i

Sample Info: 289216;30;2;1;16.8

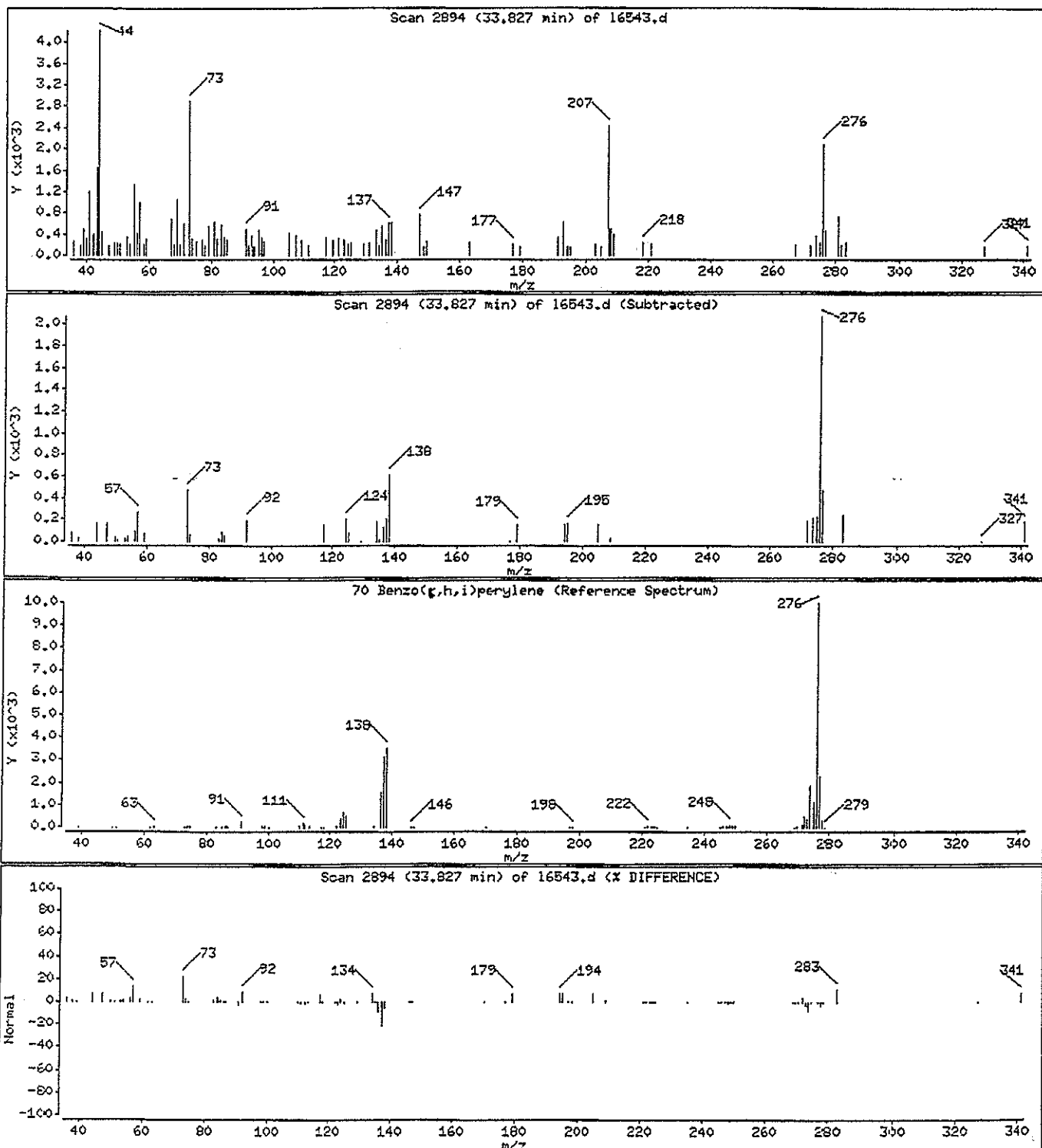
Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

70 Benzo(g,h,i)perylene

Concentration: 12 ug/Kg



Tuning Results Summary

SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L6514

DFTPP Injection Date: 07/23/01

Instrument ID: BNAMS7

DFTPP Injection Time: 1213

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	68.5
70	Less than 2.0% of mass 69	0.5 (0.7)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.0% of mass 198	2.22
441	0.0 - 100.0% of mass 443	10.9 (77.1)2
442	40.0 - 110.0% of mass 198	73.6
443	17.0 - 23.0% of mass 442	14.2 (19.3)3

1-Value is % mass 69

2-Value is % mass 443

3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD050	LSTD050	L6515	07/23/01	1237
02	LSTD120	LSTD120	L6516	07/23/01	1327
03	LSTD005	LSTD005	L6517	07/23/01	1416
04	LSTD080	LSTD080	L6518	07/23/01	1507
05	LSTD020	LSTD020	L6519	07/23/01	1557
06	SB202	SB202	L6520	07/23/01	1647
07	SB-6	289213	L6522	07/23/01	1828
08	SB-6MS	289213MS	L6523	07/23/01	1919
09	SB-6MSD	289213MSD	L6524	07/23/01	2009
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAS7.i/8270/07-23-01/23jul01.b/16514.d

Date : 23-JUL-2001 12:13

Client ID:

Instrument: INAS7.i

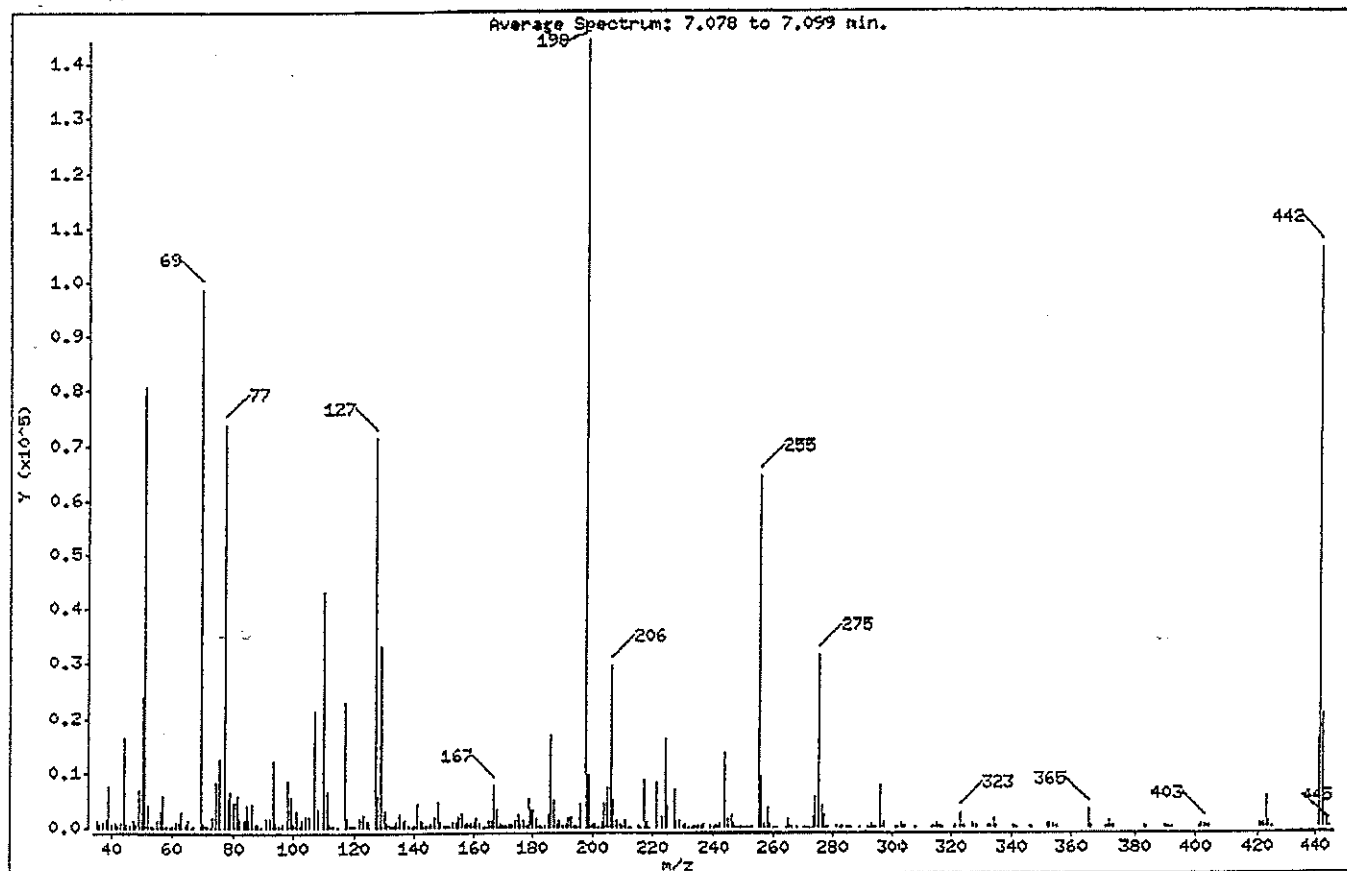
Sample Info: LDFT204

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	56.09
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	68.54
70	Less than 2.00% of mass 69	0.46 (0.67)
127	40.00 - 60.00% of mass 198	49.47
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	21.91
365	Greater than 1.00% of mass 198	2.22
441	0.01 - 100.00% of mass 443	10.94 (77.13)
442	40.00 - 110.00% of mass 198	73.60
443	17.00 - 23.00% of mass 442	14.18 (19.27)

Data File: /chem/BNAMS7.1/8270/07-23-01/23Jul01.b/16514.d

Date : 23-JUL-2001 12:13

Client ID:

Instrument: BNAMS7.1

Sample Info: LDFT204

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 16514.d

Spectrum: Average Spectrum: 7.078 to 7.099 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	1250	113.00	294	189.00	1217	273.00	2030
36.00	623	115.00	65	190.00	220	274.00	5482
37.00	965	117.00	22888	191.00	624	275.00	31544
38.00	1745	118.00	1690	192.00	1598	276.00	4112
39.00	7635	119.00	284	193.00	1851	277.00	2323
40.00	540	120.00	236	194.00	408	278.00	378
41.00	1074	122.00	1704	195.00	157	281.00	221
42.00	464	123.00	2340	196.00	4268	282.00	67
43.00	1055	124.00	1160	198.00	144000	283.00	328
44.00	16584	125.00	987	199.00	9579	284.00	119
45.00	645	127.00	71248	200.00	753	285.00	420
46.00	203	128.00	5666	201.00	540	286.00	57
47.00	1467	129.00	33216	202.00	144	289.00	82
48.00	772	130.00	2851	203.00	922	292.00	75
49.00	6990	131.00	608	204.00	4315	293.00	551
50.00	23848	132.00	316	205.00	7193	294.00	65
51.00	80784	133.00	300	206.00	29568	296.00	7469
52.00	3953	134.00	1019	207.00	4635	297.00	978
53.00	360	135.00	2395	208.00	1343	301.00	65
54.00	52	136.00	920	209.00	517	302.00	148
55.00	1177	137.00	1191	210.00	413	303.00	806
56.00	3092	138.00	303	211.00	1350	304.00	249
57.00	5857	139.00	98	212.00	61	308.00	73
58.00	396	140.00	168	213.00	68	313.00	53
59.00	128	141.00	4141	215.00	312	314.00	313
60.00	243	142.00	1361	216.00	148	315.00	821
61.00	1087	143.00	919	217.00	8586	316.00	428
62.00	1152	144.00	208	218.00	1026	317.00	54
63.00	2895	145.00	267	219.00	60	321.00	192
64.00	603	146.00	768	221.00	8304	323.00	2574
65.00	1359	147.00	2098	223.00	1966	324.00	464
66.00	159	148.00	4794	224.00	16313	327.00	537
67.00	323	149.00	1045	225.00	4135	328.00	256
69.00	98712	150.00	330	227.00	6995	332.00	178
70.00	660	151.00	470	228.00	1037	333.00	239

Data File: /chem/BNHS7.1/8270/07-23-01/23jul01.b/16514.d

Date : 23-JUL-2001 12:13

Client ID:

Instrument: BNHS7.1

Sample Info: LDFT204

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 16514.d

Spectrum: Average Spectrum: 7.078 to 7.099 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	297	152.00	342	229.00	1474	334.00	1535
72.00	52	153.00	1144	230.00	249	335.00	344
73.00	1862	154.00	859	231.00	652	341.00	306
74.00	8285	155.00	1874	232.00	70	342.00	50
75.00	12652	156.00	2650	233.00	100	346.00	464
77.00	73864	157.00	564	234.00	442	347.00	85
78.00	5294	158.00	684	235.00	405	352.00	728
79.00	6615	159.00	542	236.00	341	353.00	501
80.00	4684	160.00	1153	237.00	554	354.00	805
81.00	6099	161.00	1633	239.00	299	355.00	173
82.00	1535	162.00	507	240.00	142	365.00	3191
83.00	1323	163.00	141	241.00	329	366.00	402
84.00	3863	164.00	50	242.00	799	370.00	53
85.00	1201	165.00	1406	244.00	13729	371.00	183
86.00	4378	166.00	1166	245.00	1806	372.00	1358
87.00	807	167.00	7580	246.00	2482	373.00	350
88.00	689	168.00	3417	247.00	531	383.00	325
89.00	154	169.00	610	248.00	87	384.00	56
91.00	1550	170.00	233	249.00	467	390.00	210
92.00	1693	171.00	340	250.00	61	391.00	125
93.00	12372	172.00	672	251.00	67	392.00	107
94.00	869	173.00	737	252.00	85	401.00	50
95.00	316	174.00	1451	253.00	282	402.00	507
96.00	555	175.00	2445	255.00	64192	403.00	712
98.00	8506	176.00	762	256.00	9328	404.00	298
99.00	5520	177.00	1309	257.00	712	421.00	678
100.00	765	178.00	213	258.00	3649	422.00	622
101.00	2995	179.00	5307	259.00	545	423.00	5550
102.00	189	180.00	3226	260.00	96	424.00	1132
103.00	1239	181.00	1531	261.00	92	425.00	115
104.00	2052	182.00	283	264.00	156	441.00	15767
105.00	1931	183.00	120	265.00	1540	442.00	105992
107.00	21264	184.00	471	266.00	356	443.00	20424
108.00	3158	185.00	2399	268.00	122	444.00	1850
119.00	43168	186.00	16736	270.00	54	445.00	123

Data File: /chem/ENAMS7.i/8270/07-23-01/23jul01.b/16514.d

Date : 23-JUL-2001 12:13

Client ID:

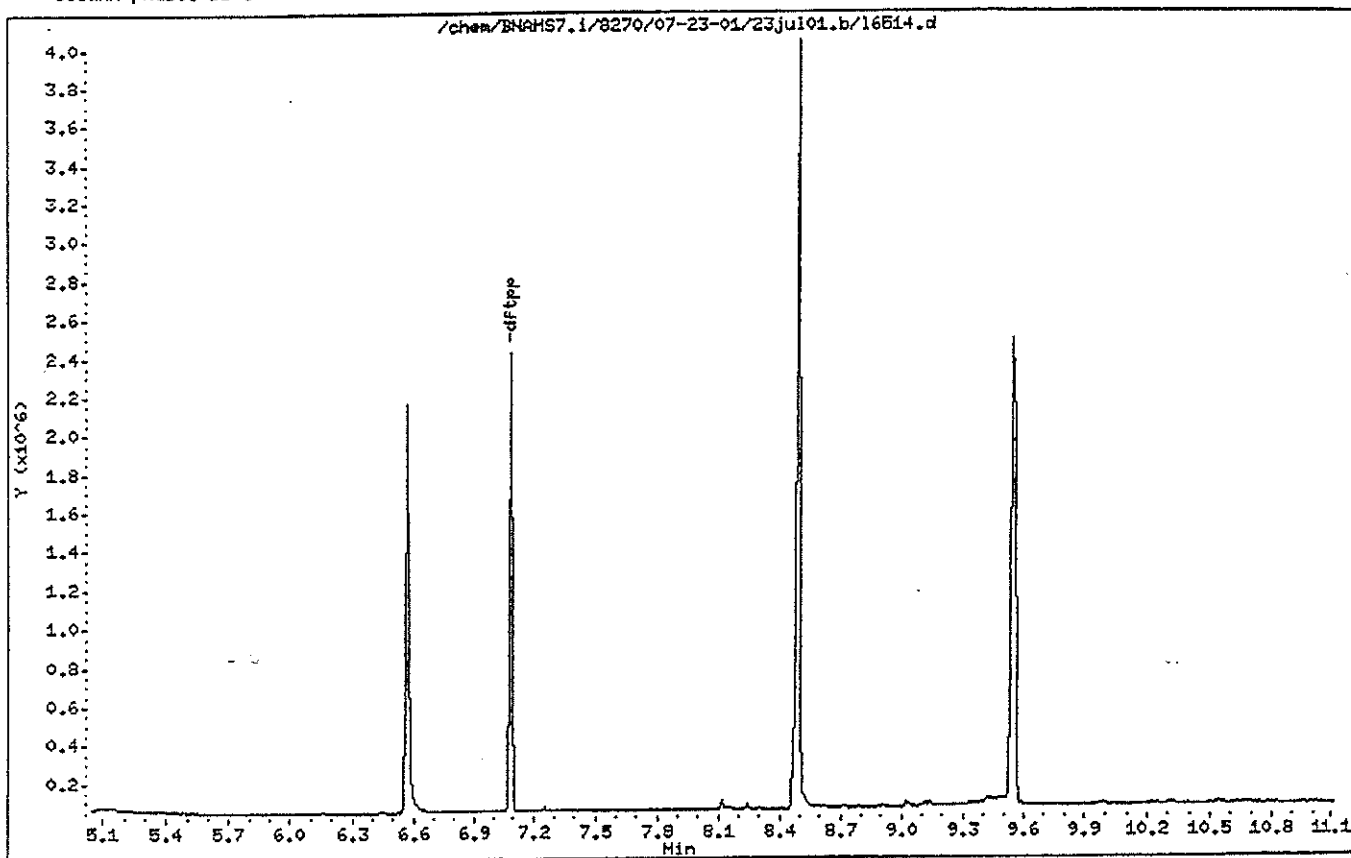
Instrument: ENAMS7.1

Sample Info: LDFT204

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: L6535

DFTPP Injection Date: 07/24/01

Instrument ID: BNAMS7

DFTPP Injection Time: 0600

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	71.6
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	50.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	22.3
365	Greater than 1.0% of mass 198	2.07
441	0.0 - 100.0% of mass 443	9.6 (77.0)2
442	40.0 - 110.0% of mass 198	64.1
443	17.0 - 23.0% of mass 442	12.5 (19.4)3

1-Value is % mass 69
3-Value is % mass 442

2-Value is % mass 443

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LSTD205	LSTD205	L6536	07/24/01	0618
02	SB-3	289210	L6538	07/24/01	0757
03	SB-4	289211	L6539	07/24/01	0847
04	SB-5	289212	L6540	07/24/01	0936
05	SB-7	289214	L6541	07/24/01	1026
06	SB-8	289215	L6542	07/24/01	1117
07	SB-9	289216	L6543	07/24/01	1207
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16535.d

Date : 24-JUL-2001 06:00

Client ID:

Instrument: BNAMS7.1

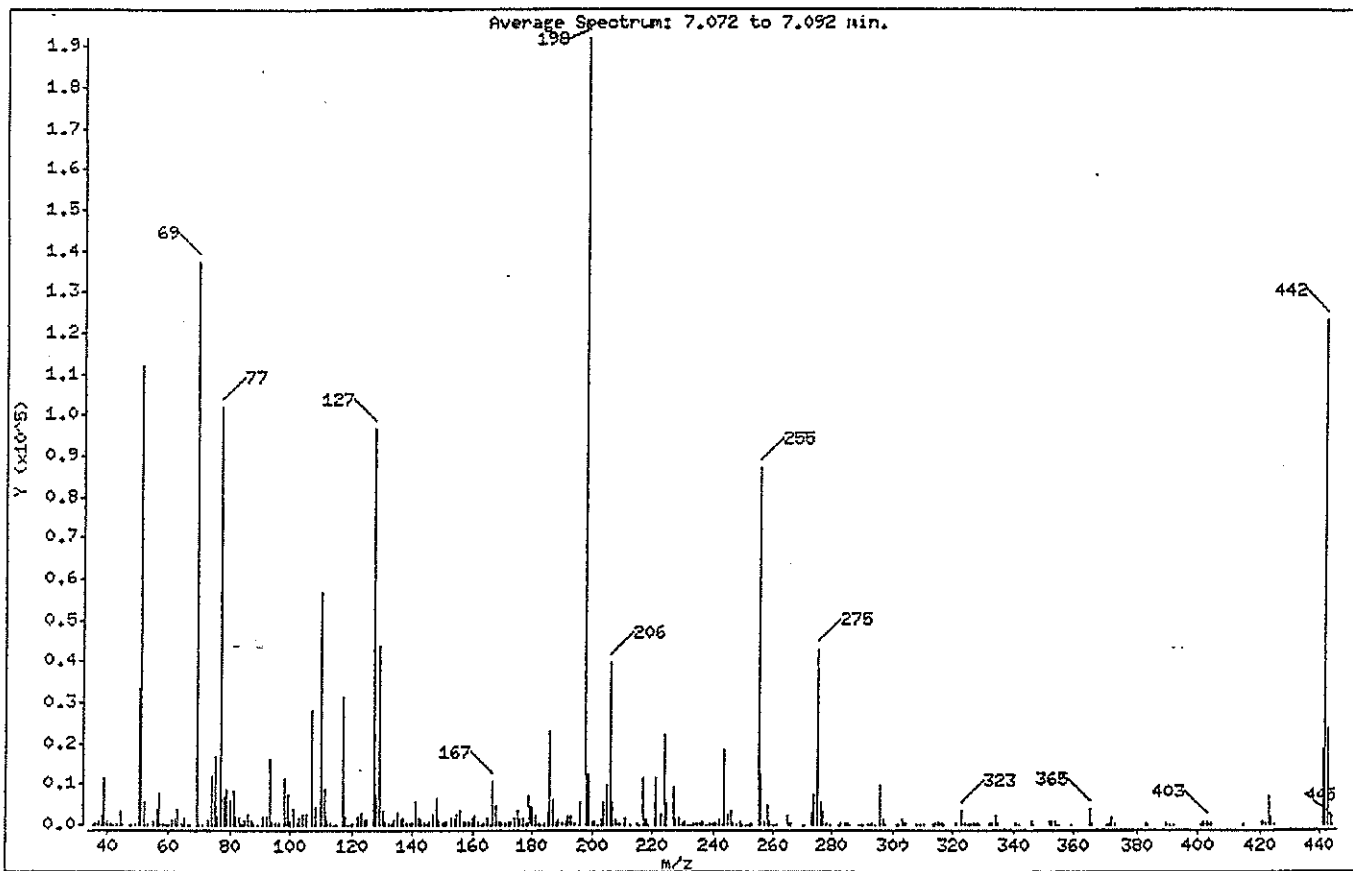
Sample Info: LDFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	X RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	58.34
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	71.59
70	Less than 2.00% of mass 69	0.14 (0.20)
127	40.00 - 60.00% of mass 198	50.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 30.00% of mass 198	22.29
365	Greater than 1.00% of mass 198	2.07
441	0.01 - 100.00% of mass 443	9.59 (76.98)
442	40.00 - 110.00% of mass 198	64.11
443	17.00 - 23.00% of mass 442	12.46 (19.43)

Data File: /chem/BNHS7.1/8270/07-23-01/24jul01.b/16535.d

Date : 24-JUL-2001 06:00

Client ID:

Instrument: BNHS7.1

Sample Info: LDFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 16535.d

Spectrum: Average Spectrum: 7.072 to 7.092 min.

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	138	117.00	31416	193.00	2237	284.00	222
36.00	627	118.00	1993	194.00	488	285.00	530
37.00	843	119.00	173	196.00	5860	286.00	105
38.00	2390	120.00	390	198.00	191936	289.00	137
39.00	11298	122.00	2400	199.00	12510	290.00	122
40.00	748	123.00	3237	200.00	985	292.00	128
41.00	634	124.00	1497	201.00	923	293.00	624
42.00	169	125.00	1298	202.00	69	294.00	179
43.00	401	127.00	96712	203.00	1303	296.00	9698
44.00	3338	128.00	7471	204.00	5785	297.00	1508
45.00	400	129.00	43720	205.00	9829	298.00	63
47.00	109	130.00	3644	206.00	39864	301.00	152
48.00	86	131.00	691	207.00	5654	302.00	105
49.00	287	132.00	424	208.00	1541	303.00	1153
50.00	33752	133.00	281	209.00	496	304.00	312
51.00	112016	134.00	1302	211.00	1737	308.00	166
52.00	5756	135.00	3064	213.00	130	309.00	57
53.00	292	136.00	1194	215.00	473	310.00	155
55.00	1000	137.00	1663	216.00	51	313.00	131
56.00	3860	138.00	263	217.00	11376	314.00	470
57.00	7990	139.00	291	218.00	1446	315.00	1050
58.00	431	140.00	601	219.00	218	316.00	567
59.00	66	141.00	5557	221.00	11620	317.00	55
60.00	65	142.00	1665	223.00	2661	321.00	352
61.00	1506	143.00	1183	224.00	22184	323.00	3575
62.00	1779	144.00	313	225.00	5435	324.00	581
63.00	4111	145.00	244	227.00	9308	325.00	58
64.00	621	146.00	935	228.00	1502	326.00	68
65.00	1875	147.00	2453	229.00	1832	327.00	606
66.00	100	148.00	6726	230.00	265	328.00	322
67.00	220	149.00	1232	231.00	831	329.00	52
69.00	137408	150.00	347	232.00	128	332.00	231
70.00	278	151.00	700	233.00	163	333.00	304
71.00	84	153.00	1638	234.00	560	334.00	2012
73.00	1507	154.00	1197	235.00	596	335.00	551

Data File: /chem/BNABS7.i/8270/07-23-01/24jul01.b/16535.d

Date : 24-JUL-2001 06:00

Client ID:

Instrument: BNABS7.i

Sample Info: LDFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 16535.d

Spectrum: Average Spectrum: 7.072 to 7.092 min.

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	11742	155.00	2590	236.00	427	341.00	386
75.00	16608	156.00	3548	237.00	770	342.00	56
76.00	2120	157.00	813	238.00	59	346.00	750
77.00	102104	158.00	909	239.00	373	347.00	95
78.00	7070	159.00	742	240.00	269	352.00	969
79.00	9005	160.00	1576	241.00	507	353.00	729
80.00	6220	161.00	2293	242.00	1161	354.00	1080
81.00	8177	162.00	671	243.00	71	355.00	216
82.00	2024	163.00	124	244.00	18544	359.00	53
83.00	1705	164.00	251	245.00	2469	365.00	3972
84.00	425	165.00	1878	246.00	3449	366.00	589
85.00	1421	166.00	107	247.00	637	370.00	91
86.00	2837	167.00	10372	248.00	206	371.00	284
87.00	1108	168.00	4675	249.00	690	372.00	1747
88.00	469	169.00	842	250.00	151	373.00	453
89.00	204	170.00	339	251.00	159	383.00	464
91.00	2029	171.00	498	252.00	141	384.00	98
92.00	2169	172.00	798	253.00	366	390.00	230
93.00	16304	173.00	1006	255.00	86784	391.00	121
94.00	968	174.00	1897	256.00	12538	392.00	89
95.00	311	175.00	3348	257.00	1078	401.00	97
96.00	577	176.00	1124	258.00	4818	402.00	672
98.00	11258	177.00	1753	259.00	785	403.00	976
99.00	7663	178.00	392	260.00	129	404.00	331
100.00	720	179.00	7210	261.00	166	415.00	51
101.00	4103	180.00	4565	265.00	2033	421.00	864
102.00	264	181.00	2049	266.00	399	422.00	242
103.00	1666	182.00	386	270.00	100	423.00	7013
104.00	2809	183.00	182	271.00	181	424.00	1648
105.00	2650	184.00	569	273.00	2911	425.00	163
107.00	28088	185.00	3212	274.00	7625	441.00	18408
108.00	4469	186.00	22864	275.00	42792	442.00	123072
110.00	56808	187.00	6323	276.00	5716	443.00	23912
111.00	8821	188.00	728	277.00	3009	444.00	2157
112.00	1130	189.00	1324	278.00	479	445.00	81

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16535.d

Date : 24-JUL-2001 06:00

Client ID:

Instrument: BNAMS7.i

Sample Info: LDFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: 16535.d

Spectrum: Average Spectrum: 7.072 to 7.092 min.

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	304	199.00	275	279.00	150		
114.00	53	191.00	723	282.00	104		
115.00	55	192.00	2115	283.00	357		

Data File: /chem/BNAMS7.i/8270/07-23-01/24jul01.b/16535.d

Date : 24-JUL-2001 06:00

Client ID:

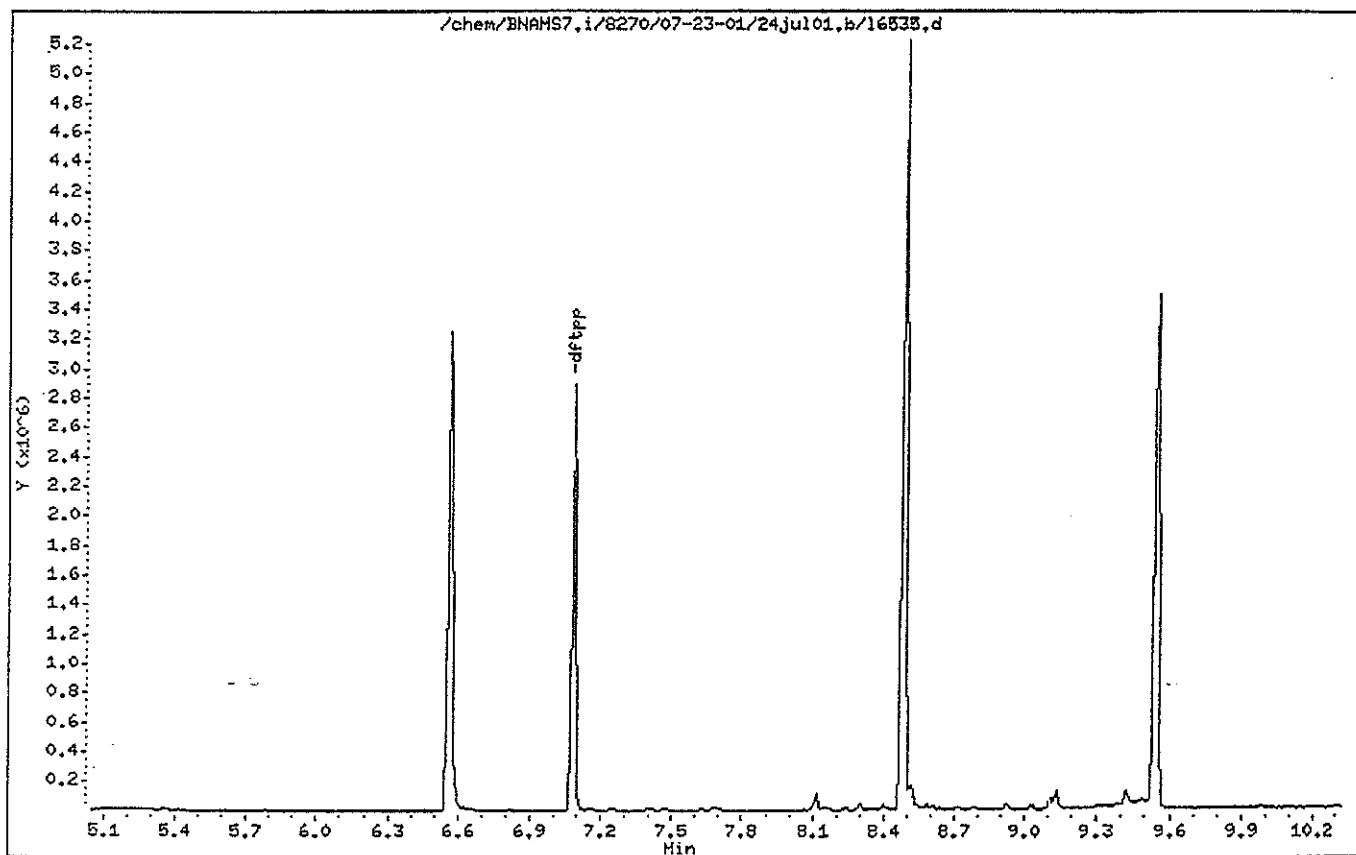
Instrument: BNAMS7.i

Sample Info: LDFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA5678

DFTPP Injection Date: 07/23/01

Instrument ID: BNAMS8

DFTPP Injection Time: 0834

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	60.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	45.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	18.4
365	Greater than 1.0% of mass 198	2.37
441	0.0 - 100.0% of mass 443	6.1 (74.4)2
442	40.0 - 110.0% of mass 198	42.8
443	17.0 - 23.0% of mass 442	8.2 (19.2)3

1-Value is % mass 69
3-Value is % mass 442

2-Value is % mass 443

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	AASTD050	AASTD050	AA5681	07/23/01	1051
02	AASTD120	AASTD120	AA5682	07/23/01	1143
03	AASTD010	AASTD010	AA5683	07/23/01	1235
04	AASTD080	AASTD080	AA5684	07/23/01	1327
05	AASTD020	AASTD020	AA5685	07/23/01	1419
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

Data File: /chem/BNHMS8.1/625/07-23-01/23jul01.b/aa5678.d

Date : 23-JUL-2001 08:34

Client ID:

Instrument: BNHMS8.i

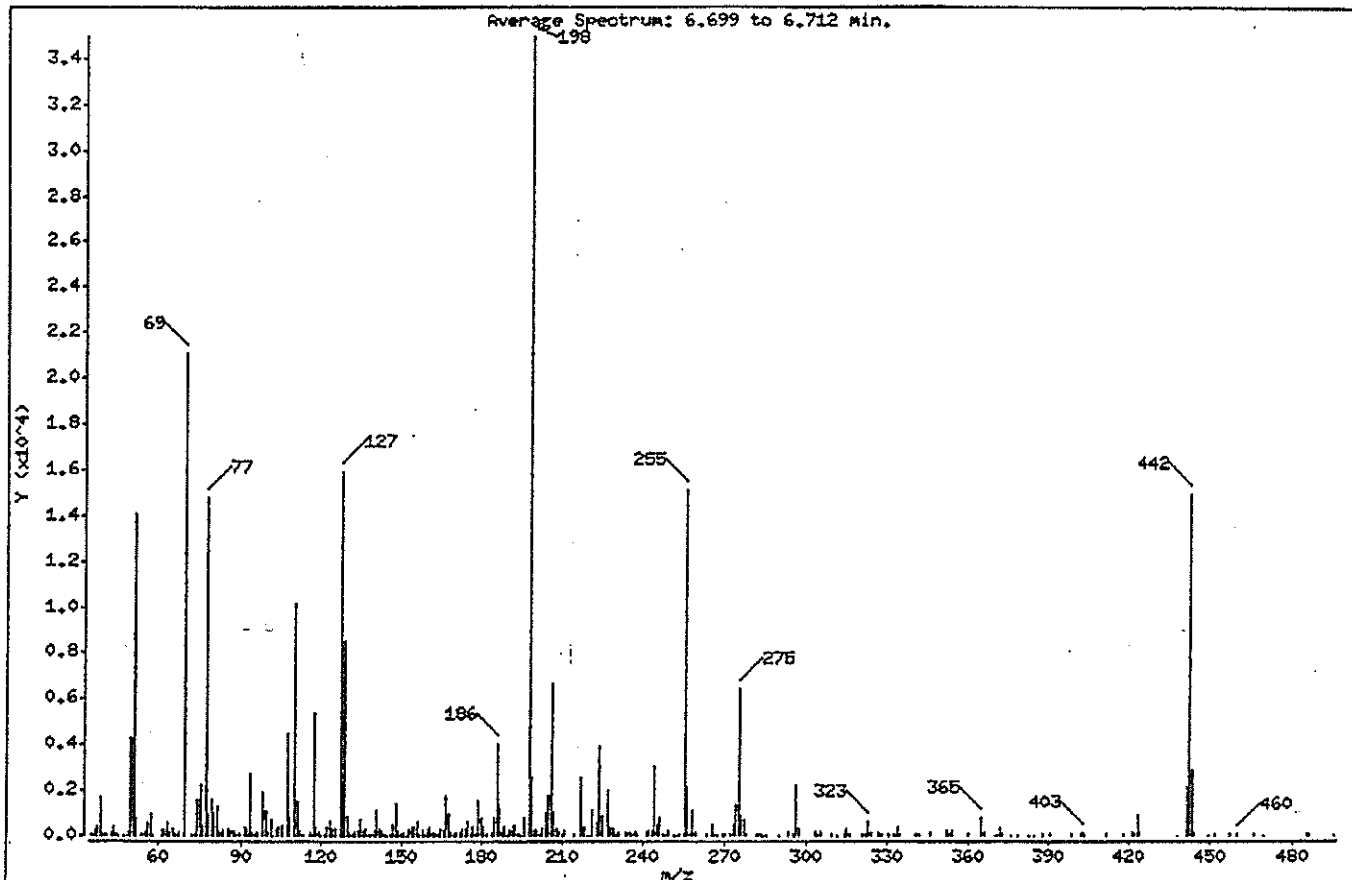
Sample Info: ARDFT204

Operator: BNHMS 1

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	40.18
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.23
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.41
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.43
276	10.00 - 30.00% of mass 198	18.37
365	Greater than 1.00% of mass 198	2.37
441	0.01 - 100.00% of mass 443	6.12 (74.38)
442	40.00 - 110.00% of mass 198	42.84
443	17.00 - 23.00% of mass 442	8.23 (19.21)

Data File: /chem/BNAMS8.i/625/07-23-01/23jul01.b/aa5678.d

Date : 23-JUL-2001 08:34

Client ID:

Instrument: BNAMS8.i

Sample Info: AADFT204

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25

Data File: aa5678.d

Spectrum: Average Spectrum: 6.699 to 6.712 min.

Location of Maximum: 198.00

Number of points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	42	121.00	63	193.00	497	290.00	33
37.00	206	122.00	401	194.00	91	293.00	195
38.00	370	123.00	651	195.00	38	295.00	55
39.00	1658	124.00	327	196.00	827	296.00	2233
40.00	84	125.00	290	198.00	34952	297.00	357
41.00	87	127.00	15873	199.00	2599	303.00	186
43.00	139	128.00	1387	200.00	213	304.00	61
44.00	369	129.00	8533	201.00	258	305.00	159
45.00	93	130.00	862	202.00	52	309.00	66
46.00	33	131.00	153	203.00	287	311.00	34
48.00	38	132.00	96	204.00	1069	314.00	152
49.00	171	133.00	184	205.00	1744	315.00	349
50.00	4244	134.00	270	206.00	6679	316.00	118
51.00	14046	135.00	711	207.00	1006	321.00	67
52.00	840	136.00	236	208.00	297	322.00	41
54.00	51	137.00	361	209.00	175	323.00	621
55.00	123	138.00	118	210.00	117	324.00	146
56.00	568	139.00	96	211.00	277	327.00	139
57.00	957	140.00	223	214.00	77	328.00	71
58.00	37	141.00	1088	217.00	2609	331.00	49
61.00	266	142.00	299	218.00	364	333.00	42
62.00	209	143.00	263	220.00	39	334.00	379
63.00	535	144.00	49	221.00	1115	335.00	114
64.00	197	145.00	33	223.00	572	341.00	71
65.00	302	146.00	68	224.00	3926	342.00	48
66.00	63	147.00	486	225.00	848	346.00	157
67.00	145	148.00	1438	227.00	2030	352.00	206
69.00	21048	149.00	202	228.00	381	353.00	108
72.00	46	150.00	113	229.00	310	354.00	243
73.00	116	151.00	185	230.00	91	360.00	50
74.00	1584	152.00	33	231.00	154	365.00	830
75.00	2273	153.00	333	234.00	160	366.00	136
76.00	475	154.00	404	235.00	190	370.00	37
77.00	14821	155.00	381	236.00	61	371.00	38
78.00	947	156.00	680	237.00	140	372.00	297

Data File: /chem/BNAMS8.i/625/07-23-01/23jul01.b/aa5678.d

Date : 23-JUL-2001 08:34

Client ID:

Instrument: BNAMS8.i

Sample Info: AADFT204

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25

Data File: aa5678.d

Spectrum: Average Spectrum: 6.699 to 6.712 min.

Location of Maximum: 198.00

Number of points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	1609	157.00	98	238.00	49	373.00	44
80.00	1023	158.00	215	241.00	128	376.00	40
81.00	1260	159.00	106	242.00	232	379.00	36
82.00	146	160.00	309	243.00	249	383.00	35
83.00	281	161.00	391	244.00	3020	388.00	37
85.00	301	162.00	181	245.00	499	388.00	46
86.00	260	163.00	89	246.00	813	391.00	67
87.00	208	164.00	47	247.00	98	399.00	41
88.00	86	165.00	295	248.00	55	402.00	43
89.00	46	166.00	249	249.00	222	403.00	141
91.00	410	167.00	1737	251.00	39	404.00	95
92.00	316	168.00	929	252.00	35	412.00	63
93.00	2739	169.00	142	253.00	105	418.00	42
94.00	160	170.00	49	255.00	15129	421.00	141
95.00	70	171.00	144	256.00	2131	422.00	63
96.00	158	172.00	173	257.00	109	423.00	858
98.00	1920	173.00	290	258.00	1136	424.00	160
99.00	1101	174.00	286	259.00	125	438.00	38
100.00	181	175.00	661	263.00	53	441.00	2140
101.00	691	176.00	56	265.00	480	442.00	14975
102.00	38	177.00	422	266.00	106	443.00	2877
103.00	286	178.00	79	267.00	34	444.00	193
104.00	436	179.00	1546	269.00	46	449.00	40
105.00	482	180.00	780	270.00	43	452.00	42
107.00	4475	181.00	438	272.00	43	457.00	59
108.00	814	182.00	45	273.00	443	460.00	81
110.00	10116	184.00	125	274.00	1377	466.00	53
111.00	1584	185.00	773	275.00	6420	469.00	34
112.00	248	186.00	4025	276.00	876	485.00	52
113.00	111	187.00	1219	277.00	685	486.00	52
116.00	189	188.00	139	278.00	60	495.00	37
117.00	5353	189.00	426	282.00	72		
118.00	387	190.00	33	283.00	81		
119.00	153	191.00	256	284.00	35		
120.00	38	192.00	392	285.00	38		

Data File: /chem/BNHMS8.i/625/07-23-01/23jul01.b/aa5678.d

Date : 23-JUL-2001 08:34

Client ID:

Instrument: BNHMS8.i

Sample Info: AADFT204

Operator: BNHMS 1

Column phase: DB-5

Column diameter: 0.25

Data File: aa5678.d

Spectrum: Average Spectrum: 6.699 to 6.712 min.

Location of Maximum: 198.00

Number of points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
							

Data File: /chem/BNAMS8.i/625/07-23-01/23jul01.b/aa5678.d

Date : 23-JUL-2001 08:34

Client ID:

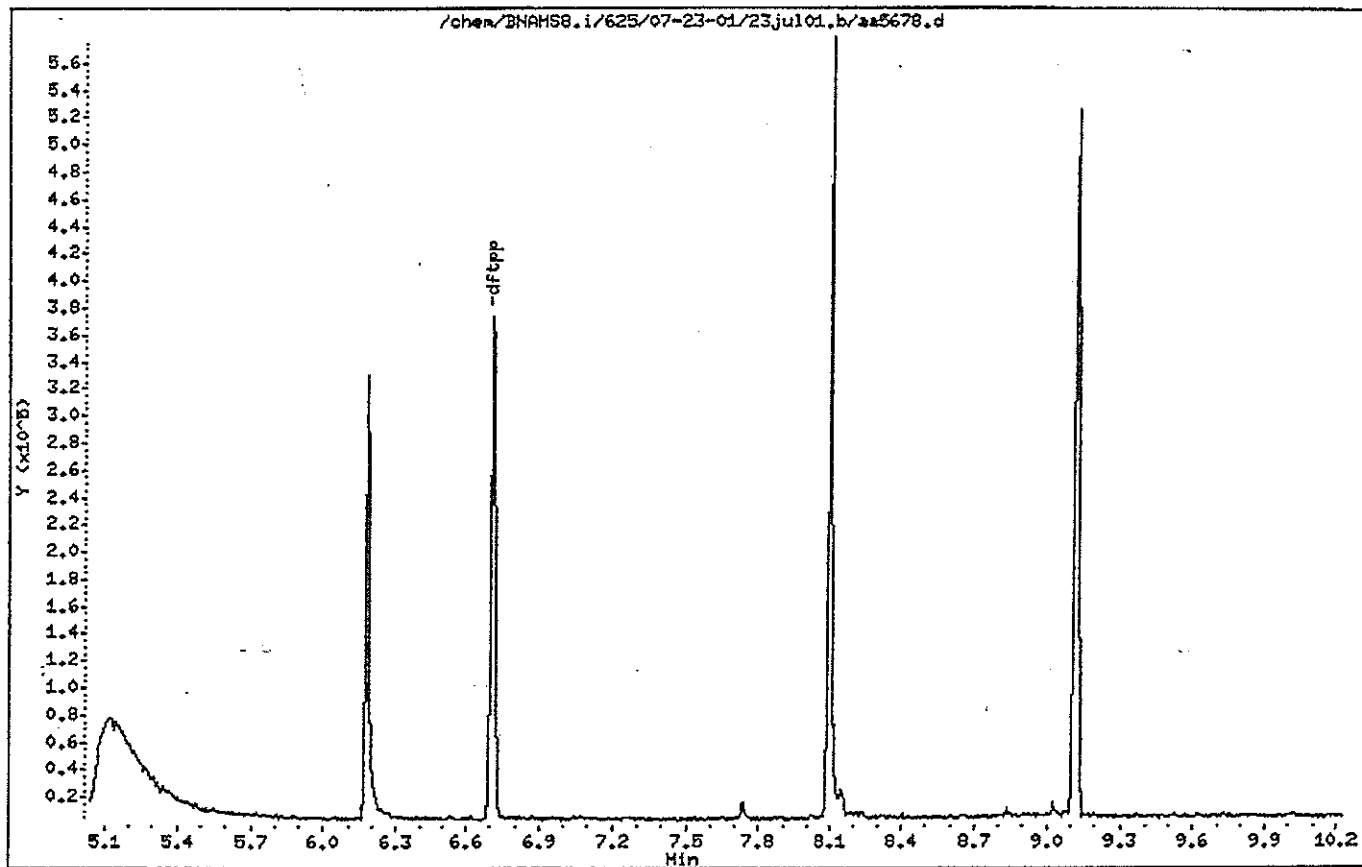
Instrument: BNAMS8.i

Sample Info: AADFT204

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA5707

DFTPP Injection Date: 07/24/01

Instrument ID: BNAMS8

DFTPP Injection Time: 1002

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.1
365	Greater than 1.0% of mass 198	2.24
441	0.0 - 100.0% of mass 443	4.5 (50.1)2
442	40.0 - 110.0% of mass 198	44.5
443	17.0 - 23.0% of mass 442	8.9 (20.0)3

1-Value is % mass 69

2-Value is % mass 443

3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	AASTD205	AASTD205	AA5708	07/24/01	1028
02	WB204	WB204	AA5725	07/25/01	0221
03					
04					
05					
06					
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11					
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16					
17					
18					

Data File: /chem/BNHHS8.i/625/07-23-01/24jul01.b/aa5707.d

Date : 24-JUL-2001 10:02

Client ID:

Instrument: BNHHS8.i

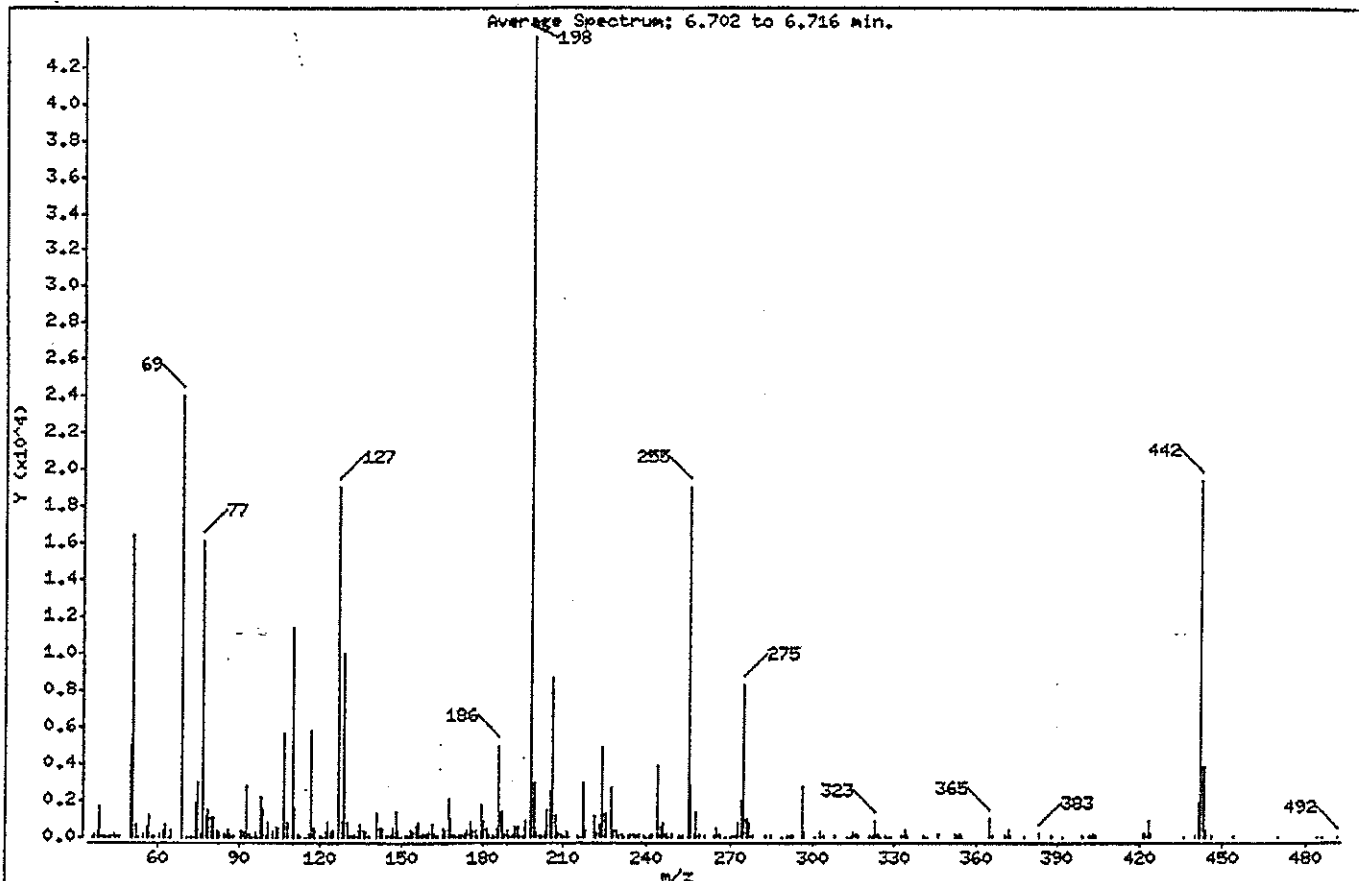
Sample Info: AADFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.70
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.25
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.79
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	19.06
365	Greater than 1.00% of mass 198	2.24
441	0.01 - 100.00% of mass 443	4.46 (50.14)
442	40.00 - 110.00% of mass 198	44.54
443	17.00 - 23.00% of mass 442	8.89 (19.97)

Data File: /chem/BNHSH8.1/625/07-23-01/24jul01.b/aa5707.d

Date : 24-JUL-2001 10:02

Client ID:

Instrument: BNHSH8.1

Sample Info: AADFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: aa5707.d

Spectrum: Average Spectrum: 6.702 to 6.716 min.

Location of Maximum: 198.00

Number of points: 270

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	48	121.00	45	193.00	576	277.00	838
37.00	228	122.00	348	194.00	56	278.00	148
38.00	374	123.00	761	195.00	54	283.00	126
39.00	1706	124.00	276	196.00	945	285.00	137
40.00	91	125.00	397	198.00	43568	289.00	35
41.00	133	127.00	19072	199.00	2972	291.00	51
42.00	42	128.00	884	200.00	305	292.00	78
43.00	68	129.00	10017	201.00	130	293.00	115
44.00	186	130.00	776	202.00	64	296.00	2828
45.00	150	131.00	94	203.00	348	297.00	326
46.00	96	132.00	103	204.00	1486	301.00	45
50.00	4973	133.00	87	205.00	2519	303.00	276
51.00	16424	134.00	403	206.00	8674	304.00	55
52.00	723	135.00	659	207.00	1234	308.00	108
53.00	38	136.00	398	208.00	343	313.00	38
55.00	181	137.00	343	209.00	192	314.00	149
56.00	607	138.00	95	210.00	110	315.00	289
57.00	1249	141.00	1271	211.00	265	316.00	196
58.00	52	142.00	498	212.00	46	317.00	68
59.00	77	143.00	459	215.00	109	321.00	92
61.00	225	144.00	122	216.00	41	322.00	78
62.00	377	145.00	134	217.00	2988	323.00	860
63.00	720	146.00	203	218.00	367	324.00	167
64.00	45	147.00	517	221.00	1241	325.00	34
65.00	424	148.00	1451	222.00	276	327.00	109
69.00	24072	149.00	399	223.00	655	328.00	45
71.00	40	150.00	33	224.00	4921	329.00	46
72.00	34	151.00	143	225.00	1276	333.00	85
73.00	44	152.00	80	227.00	2729	334.00	430
74.00	1911	153.00	387	228.00	387	335.00	132
75.00	3049	154.00	304	229.00	413	341.00	129
76.00	183	155.00	627	230.00	74	342.00	34
77.00	16116	156.00	796	231.00	231	346.00	165
78.00	1191	157.00	134	232.00	43	352.00	187
79.00	1489	158.00	240	233.00	67	353.00	133

Data File: /chem/BNAH88.i/625/07-23-01/24jul01.b/aa5707.d

Date : 24-JUL-2001 10:02

Client ID:

Instrument: BNAH88.i

Sample Info: AADFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25

Data File: aa5707.d

Spectrum: Average Spectrum: 6.702 to 6.716 min.

Location of Maximum: 198.00

Number of points: 270

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1141	159.00	196	234.00	250	354.00	154
81.00	1064	160.00	253	235.00	180	355.00	45
82.00	388	161.00	678	236.00	77	356.00	975
83.00	319	162.00	216	237.00	197	366.00	82
85.00	224	163.00	103	239.00	76	371.00	89
86.00	406	165.00	531	240.00	34	372.00	366
87.00	196	166.00	378	241.00	82	373.00	141
88.00	60	167.00	2149	242.00	237	378.00	42
91.00	380	168.00	1014	244.00	3886	383.00	175
92.00	289	169.00	184	245.00	591	398.00	58
93.00	2850	170.00	134	246.00	813	392.00	33
94.00	244	171.00	128	247.00	195	399.00	51
95.00	49	172.00	209	248.00	44	402.00	83
96.00	269	173.00	249	249.00	184	403.00	162
97.00	36	174.00	431	252.00	52	404.00	75
98.00	2154	175.00	849	253.00	75	421.00	226
99.00	1579	176.00	447	255.00	19024	422.00	169
100.00	120	177.00	436	256.00	2851	423.00	853
101.00	829	178.00	123	257.00	248	424.00	218
103.00	298	179.00	1768	258.00	1415	436.00	42
104.00	565	180.00	867	259.00	227	440.00	55
105.00	531	181.00	507	261.00	53	441.00	1943
107.00	5740	182.00	176	264.00	82	442.00	19400
108.00	795	183.00	40	265.00	547	443.00	3875
110.00	11368	184.00	88	266.00	205	444.00	353
111.00	1601	185.00	484	268.00	47	446.00	89
112.00	187	186.00	5039	270.00	48	454.00	54
113.00	106	187.00	1423	271.00	61	470.00	34
115.00	50	188.00	215	272.00	95	484.00	38
116.00	164	189.00	385	273.00	758	486.00	40
117.00	5834	190.00	60	274.00	1996	492.00	44
118.00	462	191.00	175	275.00	8305		
120.00	140	192.00	600	276.00	1030		

Data File: /chem/BNHMS8.i/625/07-23-01/24jul01.b/aa5707.d

Date : 24-JUL-2001 10:02

Client ID:

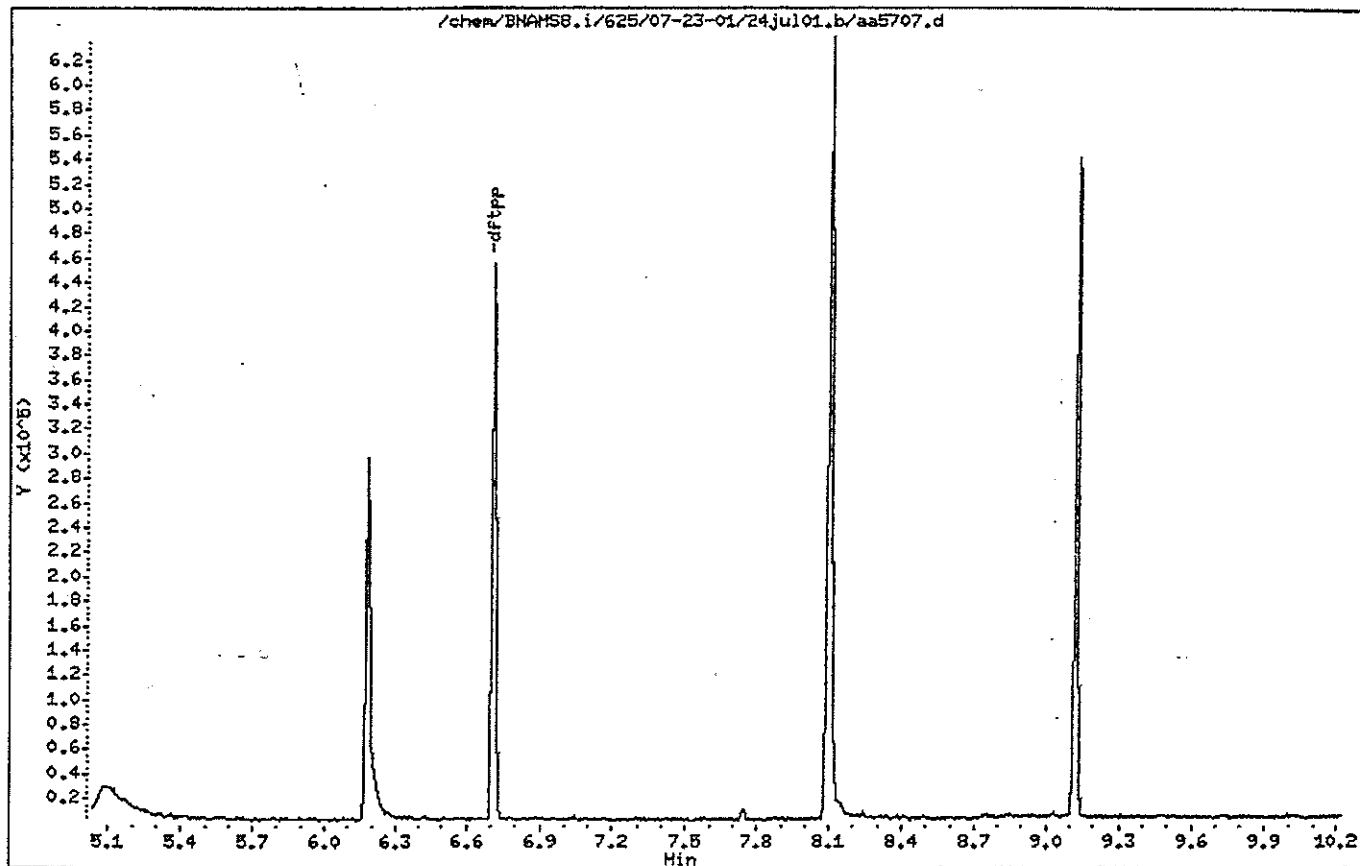
Instrument: BNHMS8.i

Sample Info: AADFT205

Operator: BNA2

Column phase: DB-5

Column diameter: 0.25



SEMI-VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab File ID: AA5759

DFTPP Injection Date: 07/26/01

Instrument ID: BNAMS8

DFTPP Injection Time: 0945

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	57.5
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	47.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	19.0
365	Greater than 1.0% of mass 198	3.00
441	0.0 - 100.0% of mass 443	8.0 (81.6)2
442	40.0 - 110.0% of mass 198	51.9
443	17.0 - 23.0% of mass 442	9.8 (19.0)3

1-Value is % mass 69

2-Value is % mass 443

3-Value is % mass 442

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

	CLIENT ID	LAB SAMPLE No.	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	AASTD207	AASTD207	AA5760	07/26/01	1013
02	FB-1	289207	AA5770	07/26/01	1915
03					
04					
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14					
15					
16					
17					
18					

Data File: /chem/BNAMS8.i/625/07-23-01/26jul01.b/aa5769.d

Date : 26-JUL-2001 09:45

Client ID:

Instrument: BNAMS8.i

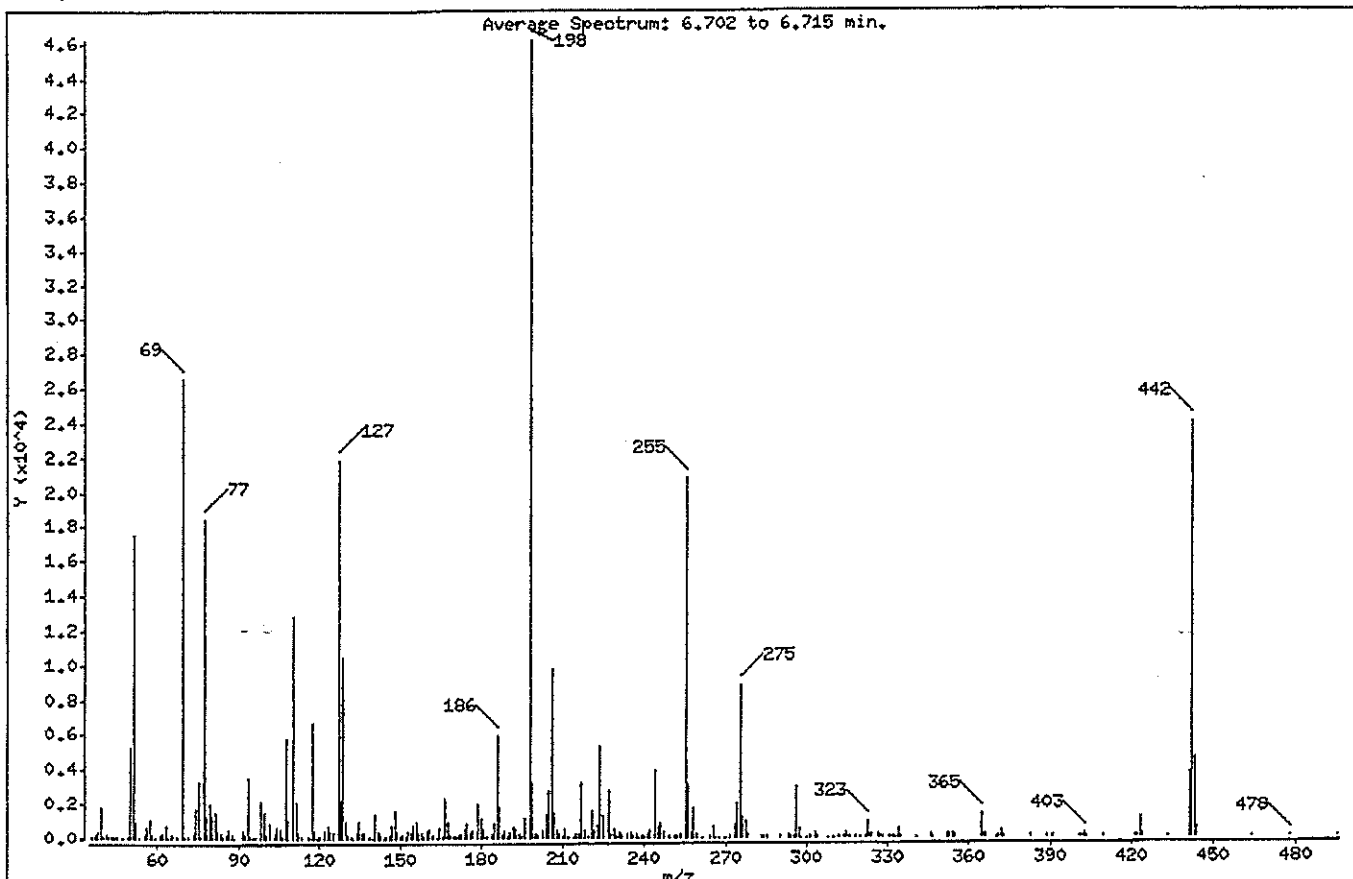
Sample Info: AADFT207

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25

1. dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.97
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	57.47
70	Less than 2.00% of mass 69	0.30 (0.52)
127	40.00 - 60.00% of mass 198	47.43
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	19.03
365	Greater than 1.00% of mass 198	3.00
441	0.01 - 100.00% of mass 443	8.04 (81.64)
442	40.00 - 110.00% of mass 198	51.89
443	17.00 - 23.00% of mass 442	9.85 (18.98)

Data File: /chem/BNAMS8.i/625/07-23-01/26jul01.b/aa5759.d

Date : 26-JUL-2001 09:45

Client ID:

Instrument: BNAMS8.i

Sample Info: AADFT207

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25

Data File: aa5759.d

Spectrum: Average Spectrum: 6.702 to 6.715 min.

Location of Maximum: 198.00

Number of points: 273

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	92	119.00	51	194.00	225	278.00	199
37.00	163	120.00	100	195.00	63	283.00	120
38.00	459	122.00	442	196.00	1180	284.00	64
39.00	1835	123.00	741	198.00	46184	285.00	87
40.00	154	124.00	383	199.00	3140	290.00	80
41.00	165	125.00	325	200.00	210	293.00	173
42.00	100	127.00	21904	201.00	210	294.00	102
43.00	95	128.00	2197	203.00	401	295.00	121
44.00	147	129.00	10481	204.00	1399	296.00	2987
45.00	81	130.00	983	205.00	2738	297.00	485
47.00	41	131.00	182	206.00	9803	298.00	36
49.00	77	132.00	133	207.00	1499	300.00	47
50.00	5344	133.00	47	208.00	382	301.00	99
51.00	17536	134.00	367	209.00	189	303.00	305
52.00	925	135.00	908	210.00	93	304.00	63
53.00	38	136.00	356	211.00	488	308.00	39
55.00	200	137.00	365	212.00	61	310.00	42
56.00	682	139.00	114	214.00	43	312.00	61
57.00	1025	140.00	41	215.00	258	314.00	120
58.00	223	141.00	1382	216.00	209	315.00	273
59.00	43	142.00	459	217.00	3226	316.00	157
61.00	242	143.00	295	218.00	445	318.00	54
62.00	364	144.00	33	220.00	66	320.00	42
63.00	791	145.00	77	221.00	1575	322.00	68
64.00	35	146.00	220	222.00	379	323.00	961
65.00	234	147.00	796	223.00	782	324.00	204
67.00	78	148.00	1585	224.00	5335	327.00	207
69.00	26536	149.00	401	225.00	1236	328.00	109
70.00	139	150.00	116	227.00	2710	331.00	56
71.00	85	151.00	237	228.00	198	332.00	97
73.00	289	152.00	109	229.00	508	333.00	49
74.00	1727	153.00	382	230.00	137	334.00	485
75.00	3248	154.00	355	231.00	284	335.00	156
76.00	119	155.00	696	232.00	70	341.00	34
77.00	18432	156.00	927	234.00	179	346.00	211

Data File: /chem/BNABS8.i/625/07-23-01/26jul01.b/aa5759.d

Date : 26-JUL-2001 09:45

Client ID:

Instrument: BNABS8.i

Sample Info: AADFT207

Operator: BNABS 1

Column phase: DB-5

Column diameter: 0.25

Data File: aa5759.d

Spectrum: Average Spectrum: 6.702 to 6.715 min.

Location of Maximum: 198.00

Number of points: 273

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	1234	157.00	271	235.00	272	347.00	43
79.00	2061	158.00	323	236.00	152	352.00	256
80.00	1228	159.00	82	237.00	168	353.00	179
81.00	1442	160.00	465	238.00	48	354.00	212
82.00	429	161.00	547	239.00	120	355.00	94
83.00	354	162.00	180	240.00	112	365.00	1386
84.00	119	164.00	48	241.00	241	366.00	247
85.00	196	165.00	673	242.00	407	370.00	42
86.00	543	166.00	138	244.00	3939	371.00	77
87.00	187	167.00	2285	245.00	656	372.00	443
88.00	46	168.00	971	246.00	827	373.00	101
91.00	469	169.00	244	247.00	276	383.00	94
92.00	245	170.00	93	249.00	95	389.00	100
93.00	3508	171.00	87	251.00	116	391.00	86
94.00	59	172.00	241	252.00	79	401.00	98
95.00	71	173.00	215	253.00	171	402.00	85
96.00	145	174.00	524	255.00	20816	403.00	219
98.00	2097	175.00	802	256.00	3055	404.00	45
99.00	1507	176.00	293	257.00	332	410.00	85
100.00	217	177.00	437	258.00	1646	421.00	66
101.00	890	179.00	1999	259.00	208	422.00	95
103.00	329	180.00	1211	261.00	34	423.00	1155
104.00	683	181.00	500	264.00	104	424.00	215
105.00	573	182.00	54	265.00	674	433.00	46
106.00	150	184.00	205	266.00	50	441.00	3713
107.00	5880	185.00	857	267.00	42	442.00	23960
108.00	1016	186.00	5912	269.00	44	443.00	4548
110.00	12803	187.00	1789	270.00	36	444.00	532
111.00	2095	188.00	184	271.00	61	464.00	39
112.00	280	189.00	418	273.00	716	478.00	42
113.00	108	190.00	128	274.00	2053	495.00	36
116.00	148	191.00	362	275.00	8790		
117.00	6726	192.00	615	276.00	1321		
118.00	463	193.00	530	277.00	930		

Data File: /chem/BNAMS8.i/625/07-23-01/26jul01.b/aa5759.d

Date : 26-JUL-2001 09:45

Client ID:

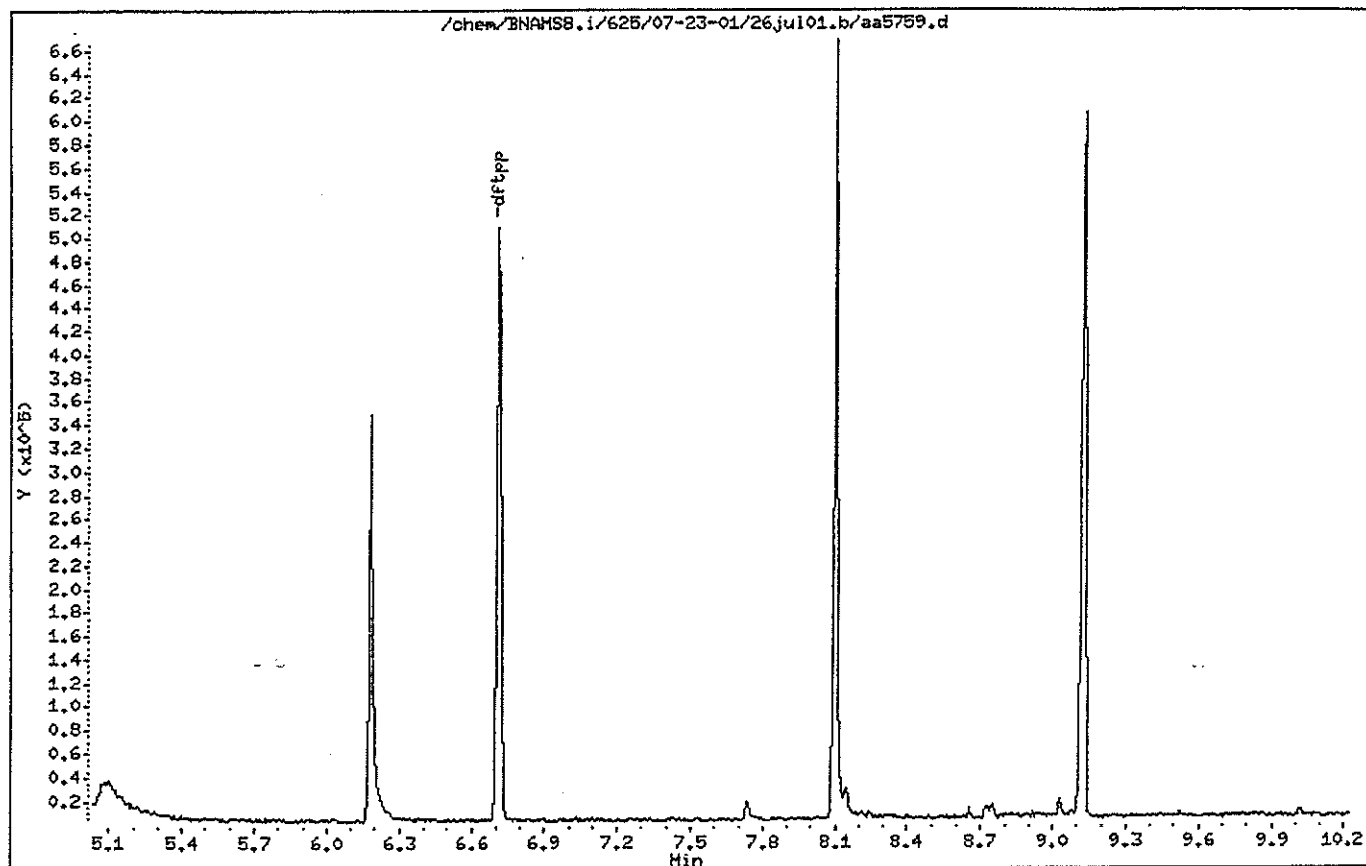
Instrument: BNAMS8.i

Sample Info: AADFT207

Operator: BNAMS 1

Column phase: DB-5

Column diameter: 0.25



Method Blank Results Summary

SEMIVOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

SB202

Matrix: SOIL

Date Analyzed: 07/23/01

Level: LOW

Time Analyzed: 1647

Instrument ID: BNAMS7

Lab File ID: L6520

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
01	SB-6	289213	L6522	07/23/01
02	SB-6MS	289213MS	L6523	07/23/01
03	SB-6MSD	289213MSD	L6524	07/23/01
04	SB-3	289210	L6538	07/24/01
05	SB-4	289211	L6539	07/24/01
06	SB-5	289212	L6540	07/24/01
07	SB-7	289214	L6541	07/24/01
08	SB-8	289215	L6542	07/24/01
09	SB-9	289216	L6543	07/24/01
10				
11				
12				
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30				

COMMENTS:

Client ID: SB202
Site:

Lab Sample No: SB202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16520.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Phenol	ND	330
2-Chlorophenol	ND	330
2-Methylphenol	ND	330
4-Methylphenol	ND	330
2-Nitrophenol	ND	330
2,4-Dimethylphenol	ND	330
2,4-Dichlorophenol	ND	330
4-Chloro-3-methylphenol	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2,4-Dinitrophenol	ND	1300
4-Nitrophenol	ND	1300
4,6-Dinitro-2-methylphenol	ND	1300
Pentachlorophenol	ND	1300
Benzoic Acid	ND	330
N-Nitrosodimethylamine	ND	330
bis(2-Chloroethyl) ether	ND	33
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
bis(2-chloroisopropyl) ether	ND	330
N-Nitroso-di-n-propylamine	ND	33
Hexachloroethane	ND	33
Nitrobenzene	ND	33
Isophorone	ND	330
bis(2-Chloroethoxy) methane	ND	330
1,2,4-Trichlorobenzene	ND	33
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	67
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670

Client ID: SB202
Site:

Lab Sample No: SB202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16520.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Dimethylphthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	67
3-Nitroaniline	ND	670
Acenaphthene	ND	330
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	67
Diethylphthalate	ND	330
4-Chlorophenyl-phenylether	ND	330
Fluorene	ND	330
4-Nitroaniline	ND	670
N-Nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	33
Phenanthrene	ND	330
Anthracene	ND	330
Carbazole	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzidine	ND	1300
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	33
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	33
Benzo(k)fluoranthene	ND	33
Benzo(a)pyrene	ND	33
Indeno(1,2,3-cd)pyrene	ND	33
Dibenz(a,h)anthracene	ND	33
Benzo(g,h,i)perylene	ND	330
Pyridine	ND	330

Client ID: SB202
Site:

Lab Sample No: SB202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16520.d

Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 8270C

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Aniline	ND	330
Benzyl Alcohol	ND	330
1,2-Diphenylhydrazine	ND	330
Diphenyl	ND	330
Diphenyl Ether	ND	330
Acetophenone	ND	330
1,4-Dioxane	ND	330
N,N-Dimethylaniline	ND	33
Benzaldehyde	ND	330
Caprolactam	ND	330
Atrazine	ND	330

Client ID: SB202
Site:

Lab Sample No: SB202
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/21/01
Date Analyzed: 07/23/01
GC Column: DB-5
Instrument ID: BNAMS7.i
Lab File ID: 16520.d

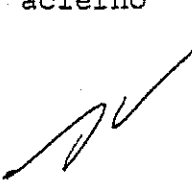
Matrix: SOIL
Level: LOW
Sample Weight: 30.0 g
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0
% Moisture: 0.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8270C

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. Unknown Aldol Condensate	9.06	600	
2. Unknown Aldol Condensate	9.86	55000	
3. Unknown Aldol Condensate	11.32	2300	
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
9. _____			
10. _____			
11. _____			
12. _____			
13. _____			
14. _____			
15. _____			
16. _____			
17. _____			
18. _____			
19. _____			
20. _____			
21. _____			
22. _____			
23. _____			
24. _____			
25. _____			
26. _____			
27. _____			
28. _____			
29. _____			
30. _____			
TOTAL ESTIMATED CONCENTRATION		57900	

Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16520.d
Report Date: 24-Jul-2001 09:35

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16520.d
Lab Smp Id: SB202 Client Smp ID: BNA
Inj Date : 23-JUL-2001 16:47
Operator : BNAMS 4 Inst ID: BNAMS7.i
Smp Info : SB202;30;2;1
Misc Info : SB202;BNA;;; 
Comment :
Method : /chem/BNAMS7.i/8270/07-23-01/23jul01.b/8270c1.m
Meth Date : 24-Jul-2001 07:09 acierno Quant Type: ISTD
Cal Date : 23-JUL-2001 15:57 Cal File: 16519.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all-AEsurr.sub
Target Version: 3.50
Processing Host: hpd1

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * 1000 * \text{Vt} / (\text{Ws} * (100 - \text{M}) / 100) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	2.00000	Volume of final extract (ml)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

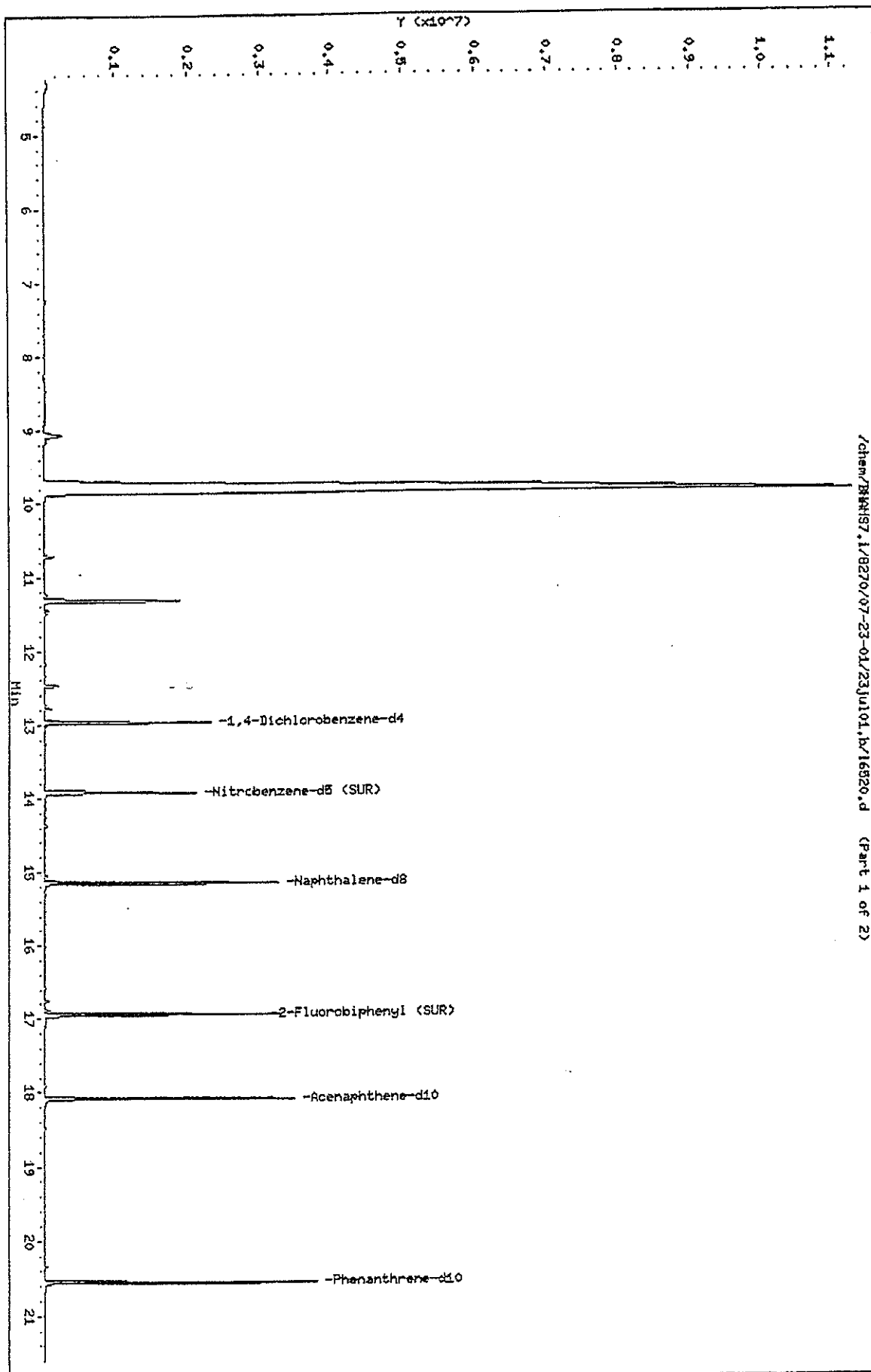
Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 79 1,4-Dichlorobenzene-d4	152	12.969	12.966	(1.000)	527283	40.0000	
\$ 76 Nitrobenzene-d5 (SUR)	82	13.920	13.917	(0.919)	795008	44.8601	3000
* 80 Naphthalene-d8	136	15.147	15.154	(1.000)	1960617	40.0000	
\$ 77 2-Fluorobiphenyl (SUR)	172	16.947	16.944	(0.937)	1494080	44.9375	3000
* 82 Acenaphthene-d10	164	18.082	18.079	(1.000)	1122888	40.0000	
* 83 Phenanthrene-d10	188	20.546	20.553	(1.000)	2028053	40.0000	
\$ 78 Terphenyl-d14 (SUR)	244	23.174	23.171	(0.928)	2065609	44.7758	3000
* 81 Chrysene-d12	240	24.963	24.970	(1.000)	2188733	40.0000	
* 84 Perylene-d12	264	28.481	28.498	(1.000)	2255259	40.0000	

Data File: /chem/BHMS7.1/8270/07-23-01/23jun01.b/16520.d
Date: 23-JUN-2001 16:47
Client ID: BHMS
Sample Info: SB2021301211

Column phase: DB-5

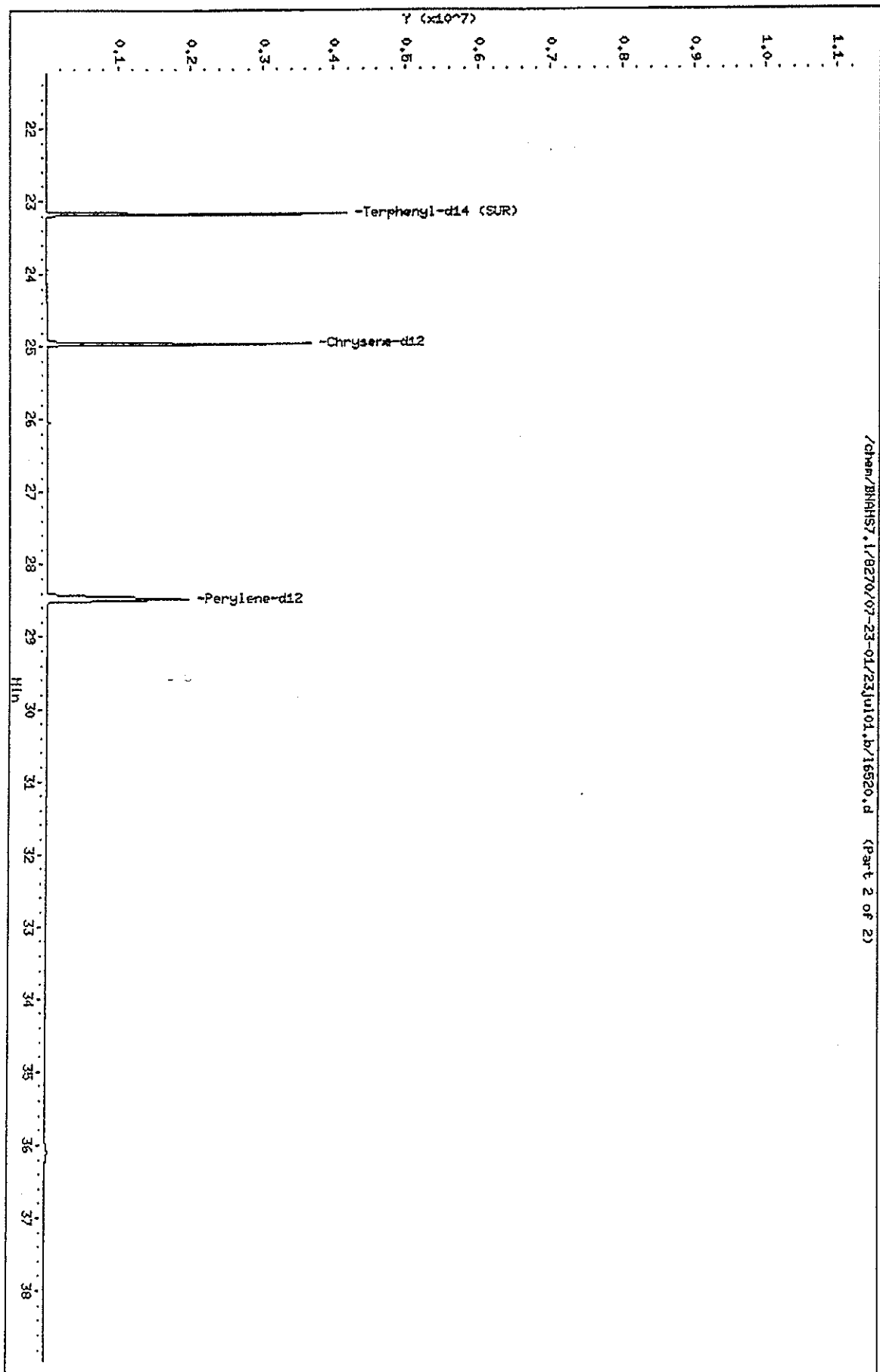
Instrument: BHMS7.1
Operator: BHMS 4
Column diameter: 0.25



Data File: /chem/BNHNS7.1/8270/07-23-01/23jul01.b/16520.d
Date: 23-JUL-2001 16:47
Client ID: BM
Sample Info: SB2023012:1

Column phase: DB-5

Instrument: BNHNS7.1
Operator: BNHNS 4
Column diameter: 0.25



Data File: /chem/BNAMS7.i/8270/07-23-01/23jul01.b/16520.d

Date : 23-JUL-2001 16:47

Client ID: BNA

Instrument: BNAMS7.i

Sample Info: SB202;30;2;1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match

CAS Number	Library	Entry	Quality	Formula	Weight

Unknown Aldol Condensate

Acetic acid, 1-methylethyl ester

108-21-4

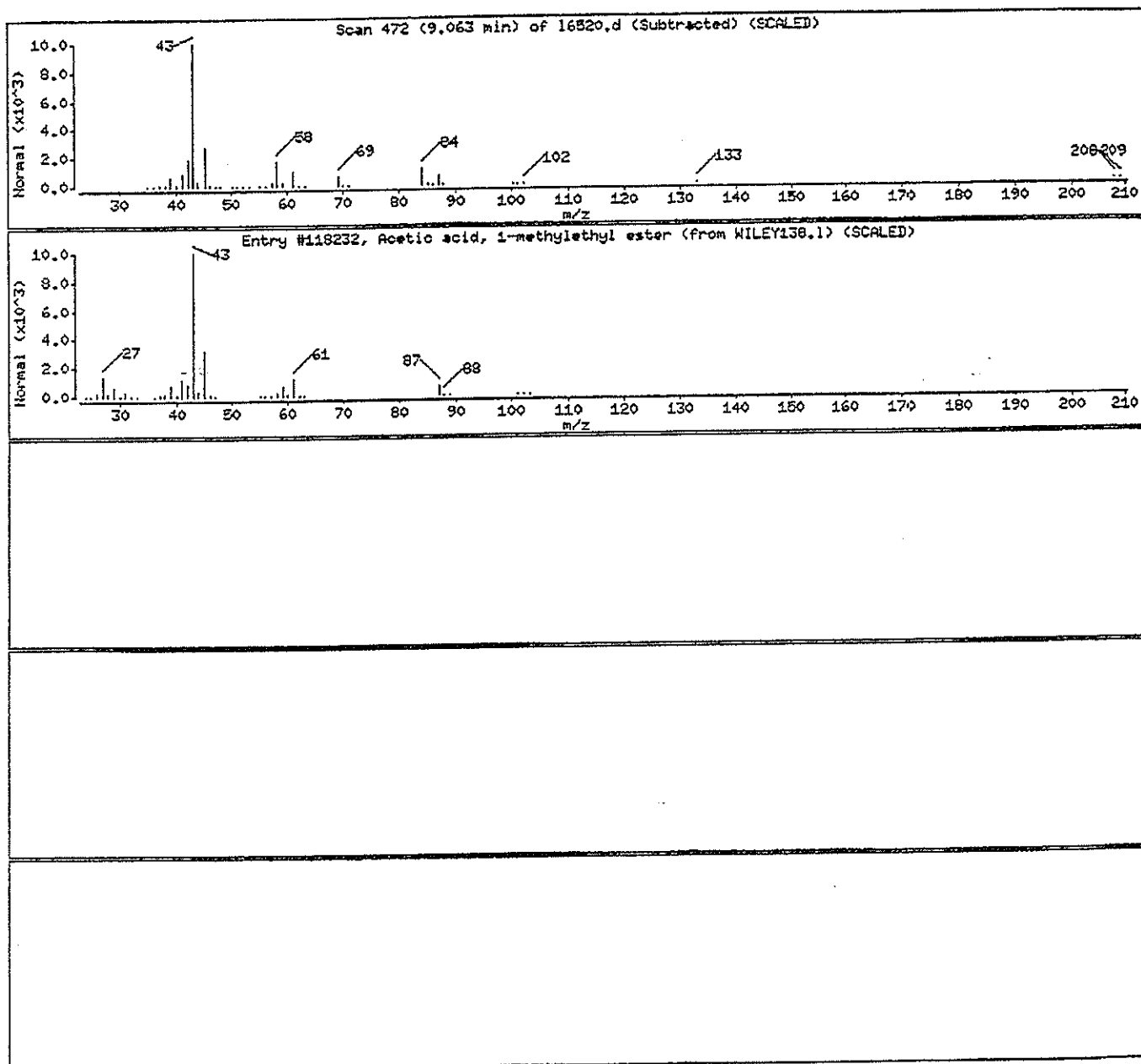
WILEY138.1

118232

38

C5H10O2

102



Data File: /chem/BNAMS7.i/8276/07-23-01/23jul01.b/16520.d

Date: 23-JUL-2001 16:47

Client ID: BNA

Instrument: BNAMS7.1

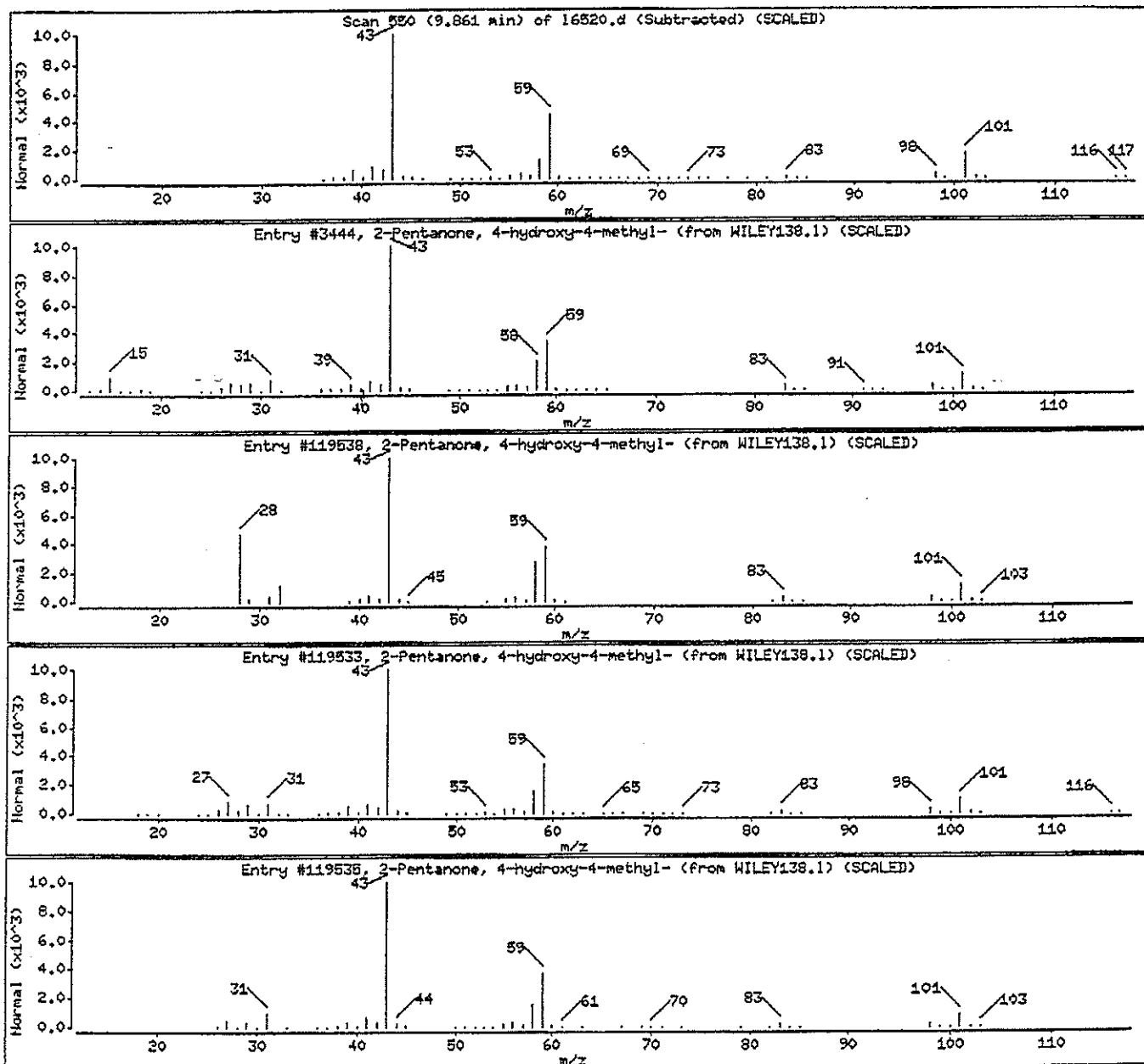
Sample Info: SB202;30;2;1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.1	3444	64	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.1	119538	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.1	119533	56	C6H12O2	116
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.1	119535	50	C6H12O2	116



Data File: /chem/BNAMS7.1/8270/07-23-01/23jul01.b/16520.d

Date : 23-JUL-2001 16:47

Client ID: BNA

Instrument: BNAMS7.1

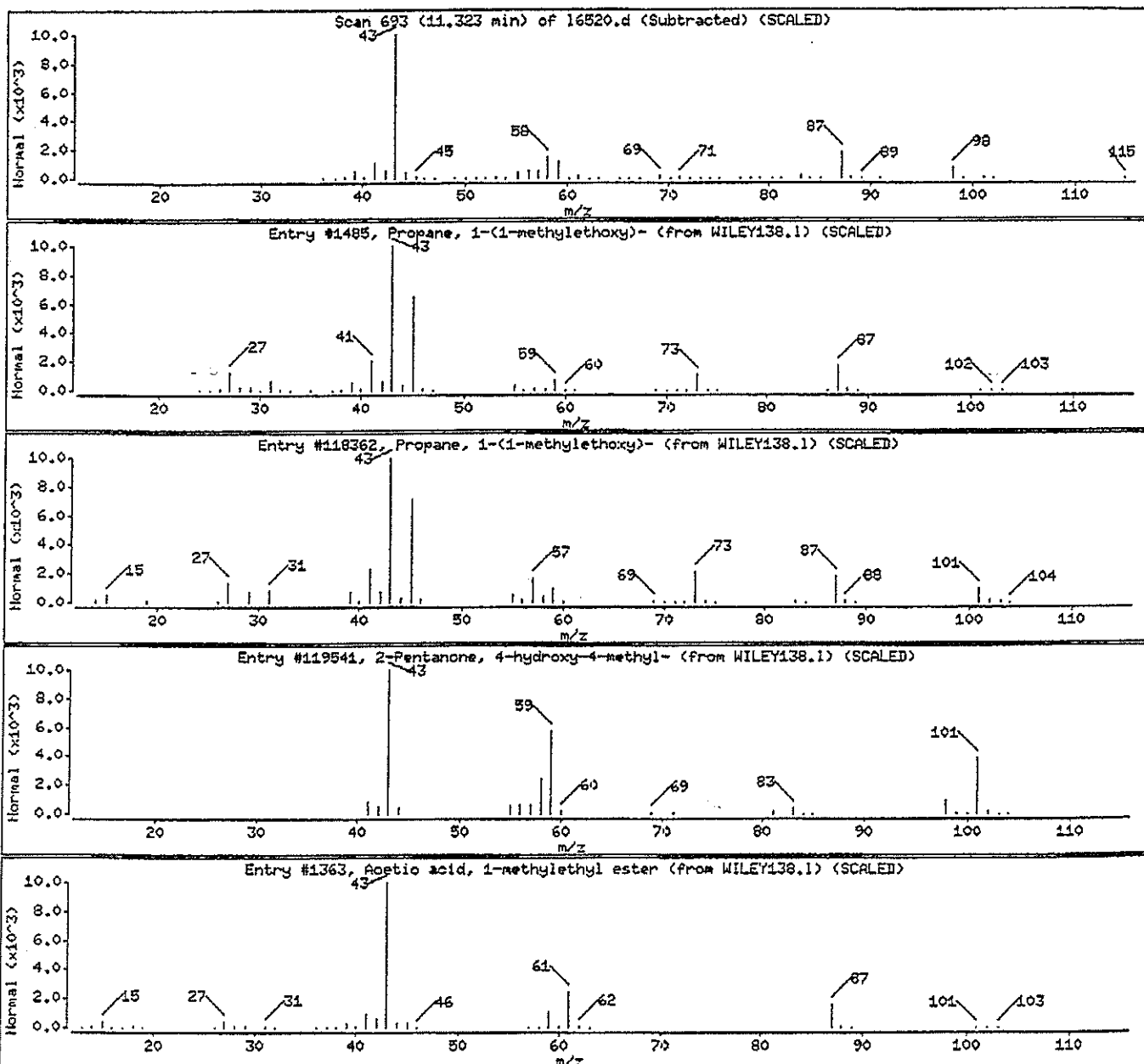
Sample Info: SB202:30:2:1

Operator: BNAMS 4

Column phase: DB-5

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown Aldol Condensate						
Propane, 1-(1-methylethoxy)-	627-08-7	WILEY138.1	1485	40	C6H14O	102
Propane, 1-(1-methylethoxy)-	627-08-7	WILEY138.1	118362	33	C6H14O	102
2-Pentanone, 4-hydroxy-4-methyl-	123-42-2	WILEY138.1	119541	25	C6H12O2	116
Acetic acid, 1-methylethyl ester	108-21-4	WILEY138.1	1363	25	C5H10O2	102



SEMIVOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

WB204

Matrix: WATER

Date Analyzed: 07/25/01

Level: LOW

Time Analyzed: 0221

Instrument ID: BNAMS8

Lab File ID: AA5725

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	FB-1	289207	AA5770	07/26/01
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

Client ID: WB204
Site:

Lab Sample No: WB204
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/23/01
Date Analyzed: 07/25/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5725.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Phenol	ND	0.3
2-Chlorophenol	ND	1.4
2-Methylphenol	ND	2.4
4-Methylphenol	ND	2.5
2-Nitrophenol	ND	1.2
2,4-Dimethylphenol	ND	1.5
2,4-Dichlorophenol	ND	2.1
4-Chloro-3-methylphenol	ND	2.0
2,4,6-Trichlorophenol	ND	1.6
2,4,5-Trichlorophenol	ND	4.9
2,4-Dinitrophenol	ND	0.4
4-Nitrophenol	ND	0.8
4,6-Dinitro-2-methylphenol	ND	1.3
Pentachlorophenol	ND	1.2
Benzoic Acid	ND	2.8
N-Nitrosodimethylamine	ND	0.6
bis(2-Chloroethyl) ether	ND	0.6
1,3-Dichlorobenzene	ND	0.8
1,4-Dichlorobenzene	ND	0.8
1,2-Dichlorobenzene	ND	0.8
bis(2-chloroisopropyl) ether	ND	0.5
N-Nitroso-di-n-propylamine	ND	1.2
Hexachloroethane	ND	0.9
Nitrobenzene	ND	0.8
Isophorone	ND	0.2
bis(2-Chloroethoxy) methane	ND	0.6
1,2,4-Trichlorobenzene	ND	0.8
Naphthalene	ND	0.6
4-Chloroaniline	ND	1.3
Hexachlorobutadiene	ND	1.1
2-Methylnaphthalene	ND	0.8
Hexachlorocyclopentadiene	ND	1.7
2-Chloronaphthalene	ND	0.8
2-Nitroaniline	ND	0.5

Client ID: WB204
Site:

Lab Sample No: WB204
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/23/01
Date Analyzed: 07/25/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5725.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

Parameter	Analytical Result Units: ug/l	Method Detection
		Limit Units: ug/l
Dimethylphthalate	ND	0.5
Acenaphthylene	ND	0.6
2,6-Dinitrotoluene	ND	0.4
3-Nitroaniline	ND	0.3
Acenaphthene	ND	0.6
Dibenzofuran	ND	0.7
2,4-Dinitrotoluene	ND	0.2
Diethylphthalate	ND	0.4
4-Chlorophenyl-phenylether	ND	0.8
Fluorene	ND	0.6
4-Nitroaniline	ND	0.6
N-Nitrosodiphenylamine	ND	0.5
4-Bromophenyl-phenylether	ND	1.9
Hexachlorobenzene	ND	1.1
Phenanthrene	ND	0.5
Anthracene	ND	0.4
Carbazole	ND	1.1
Di-n-butylphthalate	ND	0.4
Fluoranthene	ND	0.4
Pyrene	ND	0.4
Benzidine	ND	25
Butylbenzylphthalate	ND	0.4
3,3'-Dichlorobenzidine	ND	1.3
Benzo(a)anthracene	ND	0.4
Chrysene	ND	0.5
bis(2-Ethylhexyl)phthalate	0.9	0.4
Di-n-octylphthalate	ND	0.1
Benzo(b)fluoranthene	ND	0.3
Benzo(k)fluoranthene	ND	0.8
Benzo(a)pyrene	ND	0.2
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.6
Benzo(g,h,i)perylene	ND	0.4
Pyridine	ND	0.6

Client ID: WB204
Site:

Lab Sample No: WB204
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/23/01
Date Analyzed: 07/25/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5725.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
METHOD 625

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Aniline	ND	0.6
Benzyl Alcohol	ND	0.3
1,2-Diphenylhydrazine	ND	0.4
Diphenyl	ND	1.0
Diphenyl Ether	ND	10
Acetophenone	ND	0.8
N,N-Dimethylaniline	ND	0.8
1,4-Dioxane	ND	0.6
2,3,7,8-TCDD (screen)	ND	1.0
Benzaldehyde	ND	0.9
Caprolactum	ND	0.5
Atrazine	ND	0.7

Client ID: WB204
Site:

Lab Sample No: WB204
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/23/01
Date Analyzed: 07/25/01
GC Column: DB-5
Instrument ID: BNAMS8.i
Lab File ID: aa5725.d

Matrix: WATER
Level: LOW
Sample Volume: 1000 ml
Extract Final Volume: 2.0 ml
Dilution Factor: 1.0

SEMI-VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 625

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO SEMI-VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			
TOTAL ESTIMATED CONCENTRATION		0.0	

Data File: /chem/BNAMS8.i/625/07-23-01/24jul01.b/aa5725.d
Report Date: 25-Jul-2001 09:38

STL Edison

SEMI-VOLATILE ORGANIC COMPOUND ANALYSIS
Data file : /chem/BNAMS8.i/625/07-23-01/24jul01.b/aa5725.d
Lab Smp Id: WB204
Inj Date : 25-JUL-2001 02:21
Operator : BNAMS 1
Smp Info : WB204;1000;2;1;
Misc Info : ;;WB204;;
Comment :
Method : /chem/BNAMS8.i/625/07-23-01/24jul01.b/bna625b.m
Meth Date : 24-Jul-2001 11:13 rusin
Cal Date : 23-JUL-2001 14:19
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 3.50
Processing Host: hpd1
Inst ID: BNAMS8.i
Quant Type: ISTD
Cal File: aa5685.d
QC Sample: BLANK
Compound Sublist: all.sub

Concentration Formula: Amt * DF * 1000*Vt/Vo * CpndVariable

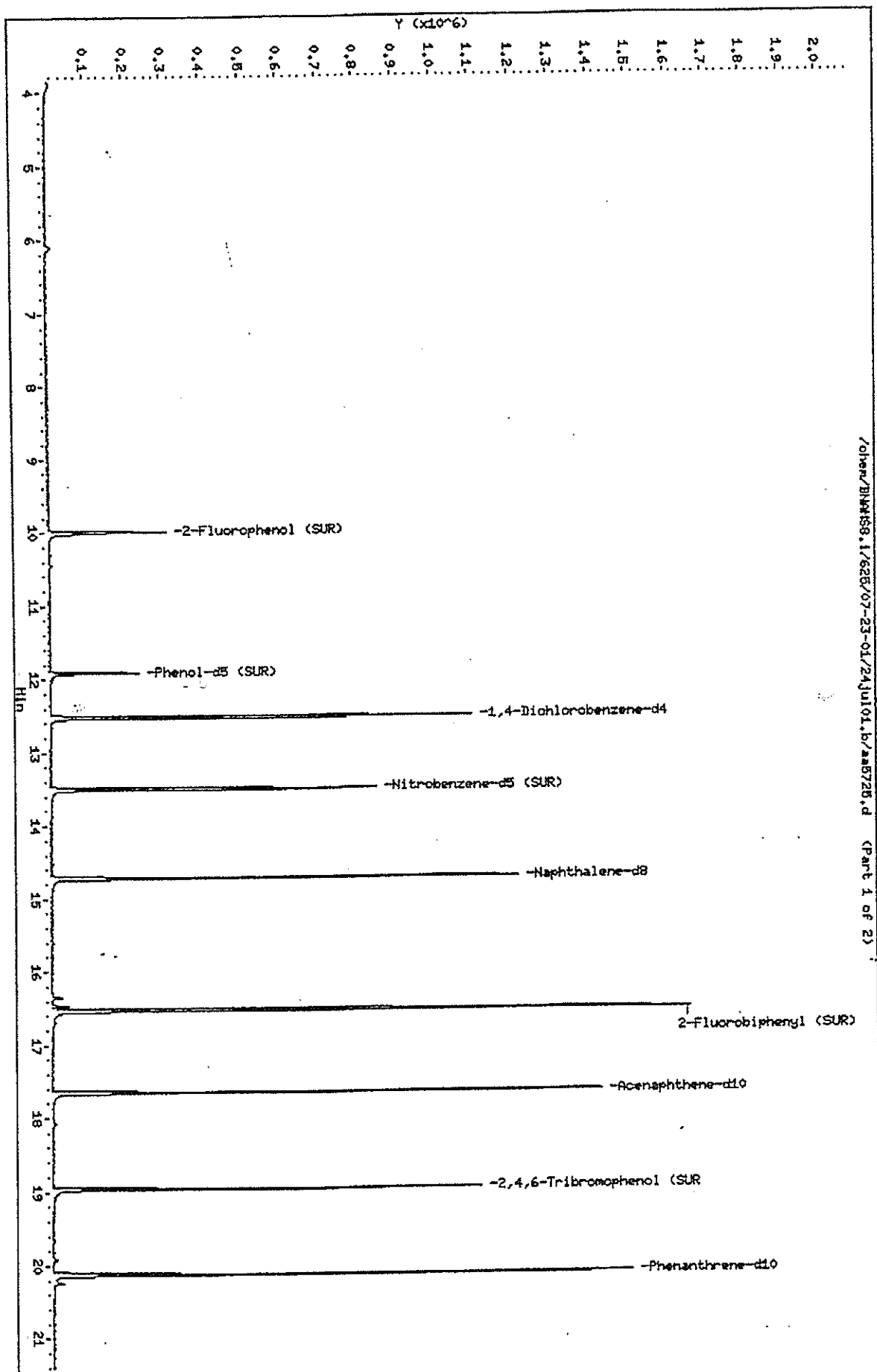
Name	Value	Description
DF	1.00000	Dilution Factor
Vt	2.00000	Volume of final extract (mL)
Vo	1000.00000	Volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
\$ 16 2-Fluorophenol (SUR)	112	9.992	9.992	(0.798)	147695	22.8852	46	
\$ 17 Phenol-d5 (SUR)	99	11.916	11.926	(0.952)	122421	13.5095	27	
* 79 1,4-Dichlorobenzene-d4	152	12.520	12.520	(1.000)	232752	40.0000		
\$ 76 Nitrobenzene-d5 (SUR)	82	13.492	13.502	(0.917)	365723	44.8088	90	
* 80 Naphthalene-d8	136	14.720	14.720	(1.000)	874209	40.0000		
\$ 77 2-Fluorobiphenyl (SUR)	172	16.531	16.531	(0.936)	749698	48.0483	96	
* 82 Acenaphthene-d10	164	17.657	17.657	(1.000)	503893	40.0000		
\$ 18 2,4,6-Tribromophenol (SUR)	330	18.957	18.967	(1.074)	200157	47.8227	96	
* 83 Phenanthrene-d10	188	20.113	20.123	(1.000)	871162	40.0000		
\$ 78 Terphenyl-d14 (SUR)	244	22.753	22.753	(0.929)	936871	57.6778	120	
63 bis(2-Ethylhexyl)phthalate	149	24.472	24.482	(0.999)	10509	0.46802	0.94	
* 81 Chrysene-d12	240	24.493	24.503	(1.000)	735684	40.0000		
* 84 Perylene-d12	264	27.614	27.614	(1.000)	508432	40.0000		

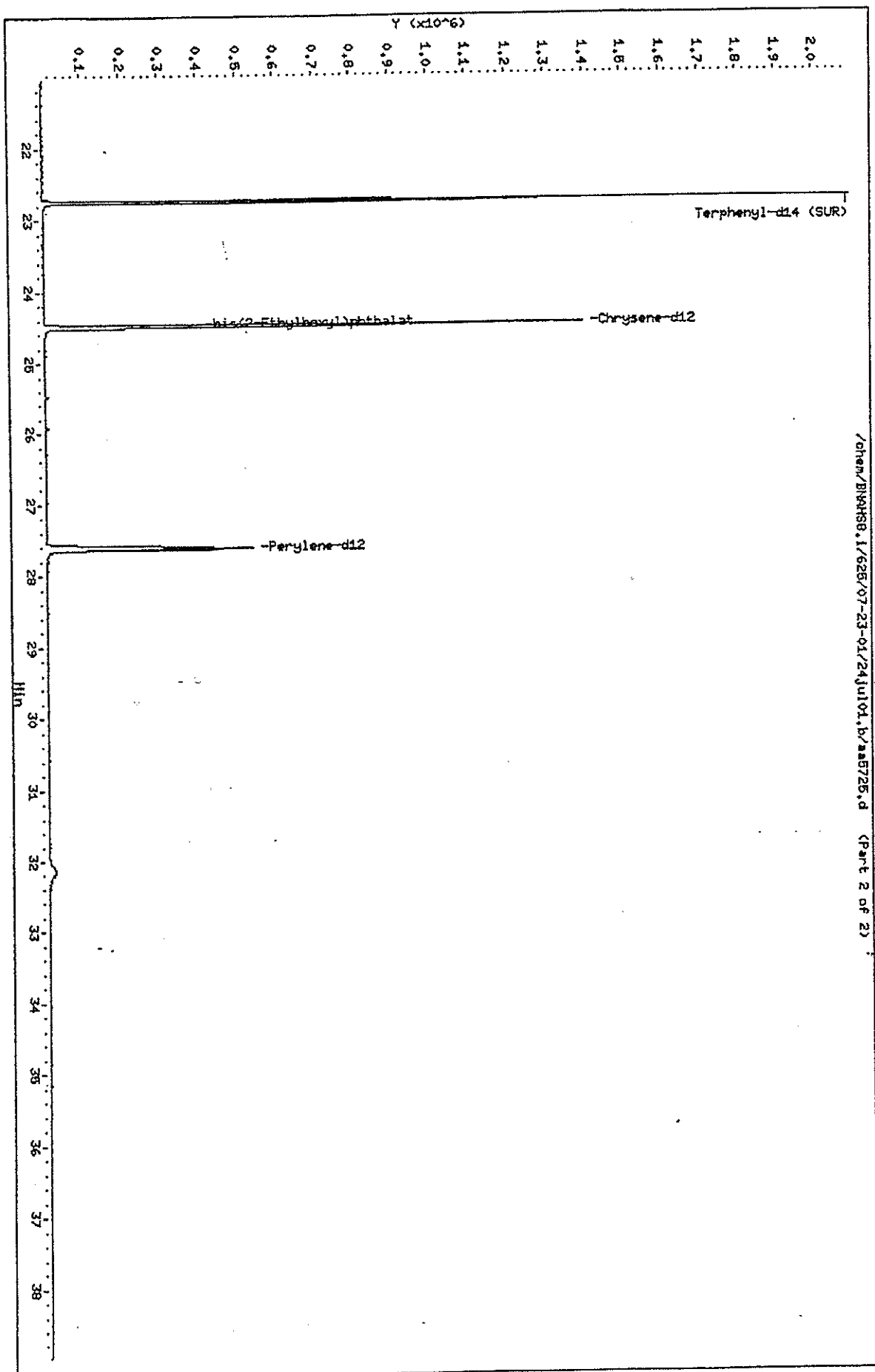
Data File: /chem/BNHHS8.1/628/07-23-01/24jul01.b/a5725.d
Date: 25-JUL-2001 02:21
Client ID:
Sample Info: MB20410001211
Purge Volume: 1000.0
Column Phase: DB-5

Instrument: BNHHS8.1
Operator: BNHHS 1
Column diameter: 0.53



Data File: /chem/BH4HS8.1/625/07-23-01/24jul01.b/a5725.d
 Date: 25-JUL-2001 02:21
 Client ID:
 Sample Info: HB20410001211
 Purge Volume: 1000.0
 Column phase: DB-5

Instrument: BH4HS8.1
 Operator: BH4HS 1
 Column diameter: 0.53



Data File: /chem/BNHMS8.i/625/07-23-01/24jul01.b/aa5725.d

Date : 25-JUL-2001 02:21

Client ID:

Instrument: BNHMS8.i

Sample Info: MB204;1000;2;1;

Purge Volume: 1000.0

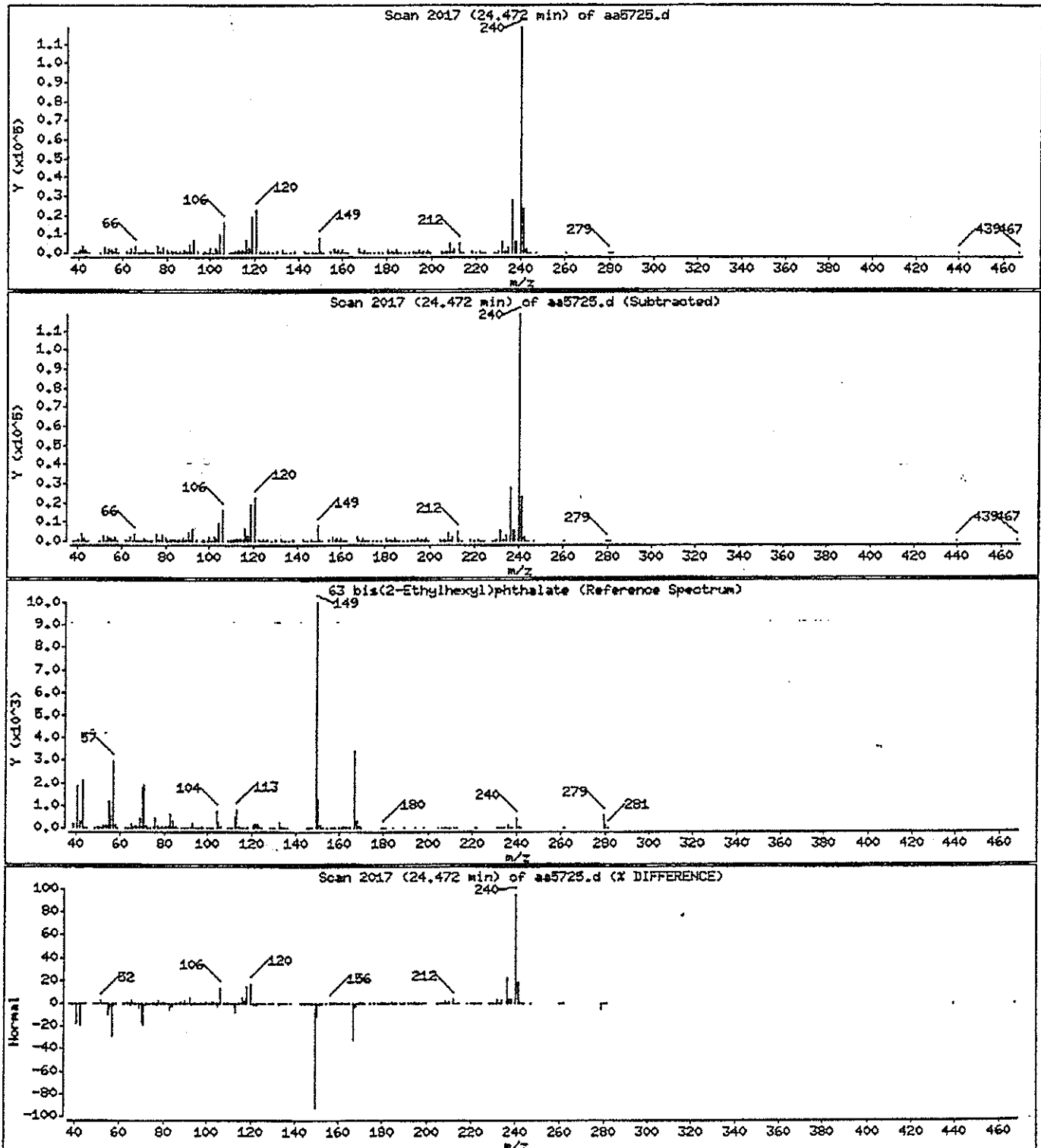
Operator: BNHMS 1

Column phase: DB-5

Column diameter: 0.53

63-bis(2-Ethylhexyl)phthalate

Concentration: 0.94 ug/L



Calibration Summary

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237 1557

LAB FILE ID:	RRF5: L6517 RRF80: L6518	RRF20: L6519 RRF120: L6516	RRF50: L6515		
COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Phenol	1.644	1.726	1.784	1.925	1.796
2-Chlorophenol	1.312	1.346	1.357	1.427	1.400
2-Methylphenol	1.203	1.250	1.240	1.314	1.292
4-Methylphenol	1.284	1.309	1.221	1.203	1.082
2-Nitrophenol	0.155	0.184	0.183	0.208	0.202
2,4-Dimethylphenol	0.314	0.316	0.317	0.318	0.306
2,4-Dichlorophenol	0.292	0.296	0.309	0.316	0.304
4-Chloro-3-methylphenol	0.303	0.303	0.314	0.330	0.322
2,4,6-Trichlorophenol	0.368	0.387	0.398	0.408	0.393
2,4,5-Trichlorophenol	0.392	0.408	0.427	0.450	0.437
2,4-Dinitrophenol	0.101	0.170	0.164	0.216	0.212
4-Nitrophenol	0.295	0.326	0.319	0.336	0.333
4,6-Dinitro-2-methylphenol	0.101	0.142	0.137	0.161	0.157
Pentachlorophenol	0.175	0.178	0.175	0.178	0.173
Benzoic Acid	0.135	0.193	0.152	0.174	0.167
N-Nitrosodimethylamine	0.802	0.852	0.882	0.926	0.910
bis(2-Chloroethyl) ether	1.533	1.426	1.390	1.431	1.424
1,3-Dichlorobenzene	1.452	1.488	1.456	1.473	1.443
1,4-Dichlorobenzene	1.512	1.523	1.478	1.479	1.448
1,2-Dichlorobenzene	1.448	1.457	1.403	1.432	1.379
bis(2-chloroisopropyl) ether	2.329	2.458	2.234	2.324	2.180
N-Nitroso-di-n-propylamine	1.088	1.054	0.978	1.022	0.992
Hexachloroethane	0.624	0.629	0.631	0.638	0.630
Nitrobenzene	0.495	0.520	0.482	0.498	0.488
Isophorone	0.729	0.730	0.728	0.753	0.746
bis(2-Chloroethoxy) methane	0.465	0.458	0.453	0.457	0.437
1,2,4-Trichlorobenzene	0.337	0.329	0.331	0.328	0.318
Naphthalene	1.076	1.060	1.034	1.010	0.963
4-Chloroaniline	0.460	0.451	0.461	0.461	0.448
Hexachlorobutadiene	0.182	0.172	0.172	0.170	0.161
2-Methylnaphthalene	0.685	0.672	0.666	0.650	0.619
Hexachlorocyclopentadiene	0.275	0.296	0.339	0.332	0.325
2-Chloronaphthalene	1.190	1.176	1.151	1.163	1.100
2-Nitroaniline	0.396	0.502	0.488	0.519	0.416
Dimethylphthalate	1.456	1.442	1.440	1.442	1.410
Acenaphthylene	1.946	1.917	1.886	1.866	1.774
2,6-Dinitrotoluene	0.213	0.312	0.314	0.353	0.353
3-Nitroaniline	0.317	0.362	0.379	0.410	0.409
Acenaphthene	1.280	1.113	1.081	1.091	1.014

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237 1557

LAB FILE ID:	RRF5: L6517 RRF80: L6518	RRF20: L6519 RRF120: L6516	RRF50: L6515		
COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.685	1.663	1.664	1.646	1.554
2,4-Dinitrotoluene	0.331	0.435	0.443	0.477	0.466
Diethylphthalate	1.551	1.522	1.511	1.510	1.436
4-Chlorophenyl-phenylether	0.642	0.644	0.612	0.574	0.527
Fluorene	1.355	1.366	1.324	1.261	1.175
4-Nitroaniline	0.369	0.399	0.391	0.412	0.408
N-Nitrosodiphenylamine	0.514	0.530	0.534	0.511	0.499
4-Bromophenyl-phenylether	0.226	0.217	0.214	0.207	0.202
Hexachlorobenzene	0.292	0.271	0.259	0.250	0.232
Phenanthrene	1.080	1.035	1.001	0.941	0.911
Anthracene	1.090	1.075	1.038	0.974	0.952
Carbazole	1.049	0.973	0.919	0.901	0.852
Di-n-butylphthalate	1.504	1.488	1.438	1.362	1.318
Fluoranthene	1.265	1.195	1.128	1.070	1.007
Pyrene	1.158	1.136	1.147	1.104	1.136
Benzidine	0.520	0.541	0.483	0.380	0.260
Butylbenzylphthalate	0.639	0.679	0.705	0.685	0.711
3,3'-Dichlorobenzidine	0.404	0.417	0.415	0.400	0.357
Benzo(a)anthracene	1.344	1.108	1.067	1.014	0.997
Chrysene	1.064	1.043	1.030	1.007	0.984
bis(2-Ethylhexyl)phthalate	0.897	0.953	0.938	0.888	0.864
Di-n-octylphthalate	1.483	1.581	1.614	1.618	1.603
Benzo(b)fluoranthene	1.099	1.115	1.106	1.153	1.228
Benzo(k)fluoranthene	1.089	1.117	1.056	1.032	0.967
Benzo(a)pyrene	1.034	1.063	1.060	1.059	1.051
Indeno(1,2,3-cd)pyrene	0.934	1.068	1.098	1.129	1.249
Dibenz(a,h)anthracene	0.980	1.075	1.073	1.093	1.087
Benzo(g,h,i)perylene	1.073	1.115	1.127	1.151	1.169
Pyridine	1.378	1.446	1.455	1.562	1.583
Aniline	1.973	1.981	1.965	2.042	1.959
Benzyl Alcohol	0.894	0.921	0.930	0.978	0.976
1,2-Diphenylhydrazine	0.920	0.906	0.878	0.867	0.818
Diphenyl	1.498	1.450	1.402	1.378	1.275
Diphenyl Ether	0.817	0.791	0.780	0.766	0.729
Acetophenone	1.831	1.851	1.712	1.710	1.636
1,4-Dioxane	0.484	0.495	0.496	0.519	0.522
N,N-Dimethylaniline	1.804	1.961	1.785	1.790	1.700
2,3,7,8-TCDD (Screen)			0.168		
Benzaldehyde	1.132	1.041	0.712	0.664	0.514

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237 1557

LAB FILE ID:	RRF5: L6517 RRF80: L6518	RRF20: L6519 RRF120: L6516	RRF50: L6515		
COMPOUND	RRF5	RRF20	RRF50	RRF80	RRF120
Caprolactam	0.136	0.139	0.144	0.145	0.136
Atrazine	0.223	0.204	0.202	0.188	0.190
2-Fluorophenol (SUR)	1.126	1.166	1.168	1.223	1.242
Phenol-d5 (SUR)	1.586	1.682	1.657	1.767	1.736
2,4,6-Tribromophenol (SUR)	0.247	0.267	0.268	0.273	0.253
Nitrobenzene-d5 (SUR)	0.335	0.364	0.353	0.382	0.373
2-Fluorobiphenyl (SUR)	1.260	1.210	1.181	1.174	1.098
Terphenyl-d14 (SUR)	0.887	0.882	0.844	0.818	0.783

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237

1557

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Phenol	AVRG	1.77496910	5.8*
2-Chlorophenol	AVRG	1.36858614	3.3*
2-Methylphenol	AVRG	1.26013097	3.5*
4-Methylphenol	AVRG	1.21964624	7.3*
2-Nitrophenol	AVRG	0.18624999	11.1*
2,4-Dimethylphenol	AVRG	0.31447722	1.5*
2,4-Dichlorophenol	AVRG	0.30348821	3.2*
4-Chloro-3-methylphenol	AVRG	0.31433964	3.8*
2,4,6-Trichlorophenol	AVRG	0.39087954	3.8*
2,4,5-Trichlorophenol	AVRG	0.42287421	5.4*
2,4-Dinitrophenol	AVRG	0.17252229	27.1**
4-Nitrophenol	AVRG	0.32173280	5.0**
4,6-Dinitro-2-methylphenol	AVRG	0.13961241	16.9*
Pentachlorophenol	AVRG	0.17573334	1.2*
Benzoic Acid	AVRG	0.16425512	13.4*
N-Nitrosodimethylamine	AVRG	0.87443968	5.6*
bis(2-Chloroethyl) ether	AVRG	1.44086344	3.8*
1,3-Dichlorobenzene	AVRG	1.46248982	1.2*
1,4-Dichlorobenzene	AVRG	1.48803796	2.0*
1,2-Dichlorobenzene	AVRG	1.42387808	2.3*
bis(2-chloroisopropyl) ether	AVRG	2.30491641	4.6*
N-Nitroso-di-n-propylamine	AVRG	1.02666105	4.4**
Hexachloroethane	AVRG	0.63043993	0.8*
Nitrobenzene	AVRG	0.49682669	2.9*
Isophorone	AVRG	0.73724073	1.6*
bis(2-Chloroethoxy) methane	AVRG	0.45389552	2.3*
1,2,4-Trichlorobenzene	AVRG	0.32855441	2.0*
Naphthalene	AVRG	1.02826036	4.3*
4-Chloroaniline	AVRG	0.45623250	1.3*
Hexachlorobutadiene	AVRG	0.17164078	4.4*
2-Methylnaphthalene	AVRG	0.65830910	3.8*
Hexachlorocyclopentadiene	AVRG	0.31348405	8.6**
2-Chloronaphthalene	AVRG	1.15594537	3.0*
2-Nitroaniline	AVRG	0.46412862	11.8*
Dimethylphthalate	AVRG	1.43813168	1.2*
Acenaphthylene	AVRG	1.87769989	3.5*
2,6-Dinitrotoluene	AVRG	0.30901176	18.6*
3-Nitroaniline	AVRG	0.37545445	10.2*
Acenaphthene	AVRG	1.11601648	8.9*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237

1557

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.64240046	3.1*
2,4-Dinitrotoluene	AVRG	0.43051062	13.5*
Diethylphthalate	AVRG	1.50614072	2.8*
4-Chlorophenyl-phenylether	AVRG	0.59977586	8.3*
Fluorene	AVRG	1.29629074	6.1*
4-Nitroaniline	AVRG	0.39598247	4.3*
N-Nitrosodiphenylamine	AVRG	0.51772324	2.8*
4-Bromophenyl-phenylether	AVRG	0.21333766	4.2*
Hexachlorobenzene	AVRG	0.26108933	8.6*
Phenanthrene	AVRG	0.99357164	6.9*
Anthracene	AVRG	1.02569747	5.9*
Carbazole	AVRG	0.93894332	8.0*
Di-n-butylphthalate	AVRG	1.42214060	5.6*
Fluoranthene	AVRG	1.13298152	9.0*
Pyrene	AVRG	1.13613718	1.8*
Benzidine	AVRG	0.43692849	26.7*
Butylbenzylphthalate	AVRG	0.68390991	4.1*
3,3'-Dichlorobenzidine	AVRG	0.39865785	6.1*
Benzo(a)anthracene	AVRG	1.10627400	12.7*
Chrysene	AVRG	1.02593863	3.0*
bis(2-Ethylhexyl)phthalate	AVRG	0.90799500	4.0*
Di-n-octylphthalate	AVRG	1.57982702	3.5*
Benzo(b)fluoranthene	AVRG	1.14016526	4.7*
Benzo(k)fluoranthene	AVRG	1.05248362	5.4*
Benzo(a)pyrene	AVRG	1.05324135	1.1*
Indeno(1,2,3-cd)pyrene	AVRG	1.09567190	10.4*
Dibenz(a,h)anthracene	AVRG	1.06169940	4.4*
Benzo(g,h,i)perylene	AVRG	1.12716558	3.2*
Pyridine	AVRG	1.48482880	5.8*
Aniline	AVRG	1.98426468	1.7*
Benzyl Alcohol	AVRG	0.94008844	3.9*
1,2-Diphenylhydrazine	AVRG	0.87786134	4.5*
Diphenyl	AVRG	1.40037425	6.0*
Diphenyl Ether	AVRG	0.77679262	4.2*
Acetophenone	AVRG	1.74801830	5.2**
1,4-Dioxane	AVRG	0.50319771	3.2**
N,N-Dimethylaniline	AVRG	1.80813469	5.2**
2,3,7,8-TCDD (Screen)	AVRG	0.16764133	0.0**
Benzaldehyde	AVRG	0.81261219	32.3*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1237 1557

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Caprolactam	AVRG	0.13999982	3.1*
Atrazine	AVRG	0.20157724	7.0*
=====	=====	=====	=====
2-Fluorophenol (SUR)	AVRG	1.18502022	4.0*
Phenol-d5 (SUR)	AVRG	1.68564877	4.2*
2,4,6-Tribromophenol (SUR)	AVRG	0.26177943	4.2*
Nitrobenzene-d5 (SUR)	AVRG	0.36155827	5.1*
2-Fluorobiphenyl (SUR)	AVRG	1.18437369	5.0*
Terphenyl-d14 (SUR)	AVRG	0.84308530	5.2*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date: 07/24/01 Time: 0618

Lab File ID: L6536

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1237

1557

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.775	1.850		-4.2	20.0
2-Chlorophenol	1.368	1.361		0.5	20.0
2-Methylphenol	1.260	1.262		-0.2	20.0
4-Methylphenol	1.220	1.304		-6.9	20.0
2-Nitrophenol	0.186	0.212		-14.0	20.0
2,4-Dimethylphenol	0.314	0.321		-2.2	20.0
2,4-Dichlorophenol	0.303	0.319		-5.3	20.0
4-Chloro-3-methylphenol	0.314	0.327		-4.1	20.0
2,4,6-Trichlorophenol	0.391	0.410		-4.8	20.0
2,4,5-Trichlorophenol	0.423	0.440		-4.0	20.0
2,4-Dinitrophenol	0.173	0.240	0.05	-38.7	20.0
4-Nitrophenol	0.322	0.329	0.05	-2.2	20.0
4,6-Dinitro-2-methylphenol	0.140	0.173		-23.6	20.0
Pentachlorophenol	0.176	0.184		-4.5	20.0
Benzoic Acid	0.164	0.181		-10.4	20.0
N-Nitrosodimethylamine	0.874	0.868		0.7	20.0
bis(2-Chloroethyl) ether	1.441	1.429		0.8	20.0
1,3-Dichlorobenzene	1.462	1.486		-1.6	20.0
1,4-Dichlorobenzene	1.488	1.518		-2.0	20.0
1,2-Dichlorobenzene	1.424	1.438		-1.0	20.0
bis(2-chloroisopropyl) ether	2.305	2.569		-11.4	20.0
N-Nitroso-di-n-propylamine	1.027	1.061	0.05	-3.3	20.0
Hexachloroethane	0.630	0.637		-1.1	20.0
Nitrobenzene	0.497	0.531		-6.8	20.0
Isophorone	0.737	0.749		-1.6	20.0
bis(2-Chloroethoxy) methane	0.454	0.469		-3.3	20.0
1,2,4-Trichlorobenzene	0.329	0.337		-2.4	20.0
Naphthalene	1.029	1.053		-2.3	20.0
4-Chloroaniline	0.456	0.469		-2.8	20.0
Hexachlorobutadiene	0.171	0.179		-4.7	20.0
2-Methylnaphthalene	0.658	0.679		-3.2	20.0
Hexachlorocyclopentadiene	0.313	0.345	0.05	-10.2	20.0
2-Chloronaphthalene	1.156	1.154		0.2	20.0
2-Nitroaniline	0.464	0.529		-14.0	20.0
Dimethylphthalate	1.438	1.448		-0.7	20.0
Acenaphthylene	1.878	1.895		-0.9	20.0
2,6-Dinitrotoluene	0.309	0.358		-15.8	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date: 07/24/01 Time: 0618

Lab File ID: L6536

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1237 1557

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
3-Nitroaniline	0.375	0.398		-6.1	20.0
Acenaphthene	1.116	1.122		-0.5	20.0
Dibenzofuran	1.642	1.657		-0.9	20.0
2,4-Dinitrotoluene	0.430	0.473		-10.0	20.0
Diethylphthalate	1.506	1.522		-1.1	20.0
4-Chlorophenyl-phenylether	0.600	0.612		-2.0	20.0
Fluorene	1.296	1.322		-2.0	20.0
4-Nitroaniline	0.396	0.416		-5.0	20.0
N-Nitrosodiphenylamine	0.518	0.539		-4.0	20.0
4-Bromophenyl-phenylether	0.213	0.222		-4.2	20.0
Hexachlorobenzene	0.261	0.267		-2.3	20.0
Phenanthrene	0.994	0.994		0.0	20.0
Anthracene	1.026	1.044		-1.8	20.0
Carbazole	0.939	0.971		-3.4	20.0
Di-n-butylphthalate	1.422	1.468		-3.2	20.0
Fluoranthene	1.133	1.126		0.6	20.0
Pyrene	1.136	1.111		2.2	20.0
Benzidine	0.437	0.421		3.7	20.0
Butylbenzylphthalate	0.684	0.691		-1.0	20.0
3,3'-Dichlorobenzidine	0.399	0.422		-5.8	20.0
Benzo(a)anthracene	1.106	1.062		4.0	20.0
Chrysene	1.026	1.012		1.4	20.0
bis(2-Ethylhexyl)phthalate	0.908	0.925		-1.9	20.0
Di-n-octylphthalate	1.580	1.653		-4.6	20.0
Benzo(b)fluoranthene	1.140	1.145		-0.4	20.0
Benzo(k)fluoranthene	1.052	1.084		-3.0	20.0
Benzo(a)pyrene	1.053	1.063		-0.9	20.0
Indeno(1,2,3-cd)pyrene	1.096	1.081		1.4	20.0
Dibenz(a,h)anthracene	1.062	1.084		-2.1	20.0
Benzo(g,h,i)perylene	1.127	1.118		0.8	20.0
Pyridine	1.485	1.484		0.1	20.0
Aniline	1.984	2.016		-1.6	20.0
Benzyl Alcohol	0.940	0.927		1.4	20.0
1,2-Diphenylhydrazine	0.878	0.885		-0.8	20.0
Diphenyl	1.401	1.428		-1.9	20.0
Diphenyl Ether	0.777	0.777		0.0	20.0
Acetophenone	1.748	1.856	0.01	-6.2	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 8270C

Instrument ID: BNAMS7

Calibration Date: 07/24/01 Time: 0618

Lab File ID: L6536

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1237 1557

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
1,4-Dioxane	0.503	0.479	0.01	4.8	20.0
N,N-Dimethylaniline	1.808	1.917	0.01	-6.0	20.0
2,3,7,8-TCDD (Screen)	0.168	0.162	0.01	3.6	20.0
Benzaldehyde	0.813	0.656		19.3	20.0
Caprolactam	0.140	0.141		-0.7	20.0
Atrazine	0.201	0.199		1.0	20.0
=====	=====	=====	=====	=====	=====
2-Fluorophenol (SUR)	1.185	1.164		1.8	20.0
Phenol-d5 (SUR)	1.686	1.710		-1.4	20.0
2,4,6-Tribromophenol (SUR)	0.262	0.270		-3.0	20.0
Nitrobenzene-d5 (SUR)	0.361	0.387		-7.2	20.0
2-Fluorobiphenyl (SUR)	1.185	1.196		-0.9	20.0
Terphenyl-d14 (SUR)	0.843	0.851		-0.9	20.0

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051

1419

LAB FILE ID:	RRF10: AA5683	RRF20: AA5685	RRF50: AA5681		
	RRF80: AA5684	RRF120: AA5682			
COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Phenol	1.547	1.562	1.698	1.749	1.763
2-Chlorophenol	1.324	1.389	1.436	1.498	1.524
2-Methylphenol	1.084	1.111	1.164	1.175	1.187
4-Methylphenol	1.126	1.163	1.229	1.217	1.243
2-Nitrophenol	0.236	0.244	0.246	0.252	0.250
2,4-Dimethylphenol	0.293	0.296	0.308	0.312	0.303
2,4-Dichlorophenol	0.328	0.343	0.345	0.344	0.346
4-Chloro-3-methylphenol	0.310	0.327	0.336	0.333	0.320
2,4,6-Trichlorophenol	0.371	0.386	0.402	0.429	0.437
2,4,5-Trichlorophenol	0.381	0.444	0.460	0.466	0.479
2,4-Dinitrophenol	0.183	0.253	0.266	0.301	0.294
4-Nitrophenol	0.256	0.269	0.291	0.298	0.302
4,6-Dinitro-2-methylphenol	0.177	0.196	0.210	0.217	0.222
Pentachlorophenol	0.152	0.175	0.188	0.194	0.202
Benzoic Acid	0.117	0.171	0.166	0.182	0.182
N-Nitrosodimethylamine	0.622	0.644	0.742	0.784	0.857
bis(2-Chloroethyl) ether	1.214	1.238	1.282	1.302	1.353
1,3-Dichlorobenzene	1.576	1.557	1.547	1.609	1.650
1,4-Dichlorobenzene	1.620	1.599	1.600	1.616	1.681
1,2-Dichlorobenzene	1.461	1.490	1.498	1.525	1.607
bis(2-chloroisopropyl) ether	2.014	2.053	2.042	1.975	2.022
N-Nitroso-di-n-propylamine	0.982	0.984	1.020	1.044	1.058
Hexachloroethane	0.680	0.655	0.662	0.676	0.696
Nitrobenzene	0.514	0.507	0.511	0.530	0.540
Isophorone	0.673	0.675	0.691	0.683	0.698
bis(2-Chloroethoxy)methane	0.443	0.425	0.437	0.430	0.437
1,2,4-Trichlorobenzene	0.330	0.338	0.330	0.340	0.344
Naphthalene	1.072	0.994	1.011	1.031	1.017
4-Chloroaniline	0.439	0.451	0.449	0.443	0.449
Hexachlorobutadiene	0.213	0.206	0.210	0.211	0.218
2-Methylnaphthalene	0.687	0.654	0.672	0.672	0.688
Hexachlorocyclopentadiene	0.200	0.245	0.317	0.349	0.391
2-Chloronaphthalene	1.175	1.161	1.186	1.216	1.286
2-Nitroaniline	0.403	0.381	0.397	0.426	0.422
Dimethylphthalate	1.611	1.614	1.601	1.642	1.671
Acenaphthylene	1.875	1.867	1.875	1.953	2.001
2,6-Dinitrotoluene	0.387	0.397	0.396	0.412	0.412
3-Nitroaniline	0.444	0.444	0.465	0.465	0.455
Acenaphthene	1.101	1.115	1.125	1.171	1.210

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051 1419

LAB FILE ID:	RRF10: AA5683	RRF20: AA5685	RRF50: AA5681		
	RRF80: AA5684	RRF120: AA5682			
COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
Dibenzofuran	1.762	1.726	1.725	1.819	1.923
2,4-Dinitrotoluene	0.566	0.548	0.564	0.588	0.625
Diethylphthalate	1.828	1.781	1.791	1.847	1.918
4-Chlorophenyl-phenylether	0.627	0.627	0.620	0.679	0.754
Fluorene	1.338	1.326	1.357	1.457	1.588
4-Nitroaniline	0.458	0.432	0.463	0.454	0.458
N-Nitrosodiphenylamine	0.482	0.540	0.562	0.580	0.604
4-Bromophenyl-phenylether	0.227	0.224	0.233	0.249	0.262
Hexachlorobenzene	0.297	0.306	0.312	0.325	0.359
Phenanthrene	1.062	1.081	1.081	1.085	1.184
Anthracene	1.106	1.082	1.090	1.138	1.200
Carbazole	1.068	1.053	1.046	1.067	1.111
Di-n-butylphthalate	1.801	1.776	1.817	1.816	1.911
Fluoranthene	1.123	1.082	1.114	1.141	1.173
Pyrene	1.071	1.096	1.132	1.161	1.189
Benzidine	0.586	0.567	0.425	0.318	0.187
Butylbenzylphthalate	0.784	0.790	0.835	0.824	0.861
3,3'-Dichlorobenzidine	0.427	0.429	0.413	0.418	0.356
Benzo(a)anthracene	0.986	0.961	1.011	1.093	1.126
Chrysene	0.934	0.892	0.909	0.917	0.969
bis(2-Ethylhexyl)phthalate	1.138	1.128	1.201	1.277	1.360
Di-n-octylphthalate	2.349	2.465	2.747	2.808	3.022
Benzo(b)fluoranthene	1.160	1.161	1.248	1.278	1.362
Benzo(k)fluoranthene	1.187	1.198	1.290	1.325	1.312
Benzo(a)pyrene	1.058	1.077	1.149	1.170	1.208
Indeno(1,2,3-cd)pyrene	0.844	0.878	0.953	0.964	1.022
Dibenz(a,h)anthracene	0.914	0.905	1.007	1.006	1.051
Benzo(g,h,i)perylene	0.903	0.921	0.963	0.951	0.996
Pyridine	0.949	0.962	1.157	1.235	1.323
Aniline	1.641	1.696	1.728	1.753	1.810
Benzyl Alcohol	0.823	0.814	0.854	0.846	0.878
1,2-Diphenylhydrazine	0.849	0.852	0.856	0.867	0.897
Diphenyl	1.423	1.454	1.446	1.541	1.559
Diphenyl Ether	0.774	0.787	0.785	0.817	0.858
Acetophenone	1.815	1.890	1.913	1.950	1.974
N,N-Dimethylaniline	1.862	1.849	1.839	1.847	1.886
1,4-Dioxane	0.594	0.568	0.598	0.601	0.618
2,3,7,8-TCDD (screen)			0.156		
Benzaldehyde	0.878	0.871	0.542	0.577	0.433

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051 1419

LAB FILE ID:		RRF10: AA5683	RRF20: AA5685	RRF50: AA5681	
		RRF80: AA5684	RRF120: AA5682		
COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120
=====	=====	=====	=====	=====	=====
Caprolactum	0.122	0.131	0.132	0.129	0.128
Atrazine	0.225	0.225	0.224	0.226	0.244
=====	=====	=====	=====	=====	=====
2-Fluorophenol (SUR)	0.944	1.042	1.120	1.198	1.242
Phenol-d5 (SUR)	1.425	1.507	1.570	1.633	1.651
2,4,6-Tribromophenol (SUR)	0.304	0.321	0.325	0.352	0.359
Nitrobenzene-d5 (SUR)	0.359	0.369	0.377	0.382	0.380
2-Fluorobiphenyl (SUR)	1.195	1.195	1.227	1.280	1.296
Terphenyl-d14 (SUR)	0.824	0.842	0.878	0.909	0.962

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051

1419

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Phenol	AVRG	1.66388348	6.2*
2-Chlorophenol	AVRG	1.43423533	5.7*
2-Methylphenol	AVRG	1.14451870	3.9*
4-Methylphenol	AVRG	1.19545229	4.1*
2-Nitrophenol	AVRG	0.24566533	2.6*
2,4-Dimethylphenol	AVRG	0.30243702	2.5*
2,4-Dichlorophenol	AVRG	0.34129267	2.2*
4-Chloro-3-methylphenol	AVRG	0.32519482	3.2*
2,4,6-Trichlorophenol	AVRG	0.40497448	6.8*
2,4,5-Trichlorophenol	AVRG	0.44576542	8.6*
2,4-Dinitrophenol	AVRG	0.25943126	18.2**
4-Nitrophenol	AVRG	0.28340649	7.0**
4,6-Dinitro-2-methylphenol	AVRG	0.20428846	8.8*
Pentachlorophenol	AVRG	0.18243970	10.7*
Benzoic Acid	AVRG	0.16355395	16.4*
N-Nitrosodimethylamine	AVRG	0.72977641	13.4**
bis(2-Chloroethyl) ether	AVRG	1.27769181	4.3*
1,3-Dichlorobenzene	AVRG	1.58780642	2.6*
1,4-Dichlorobenzene	AVRG	1.62314682	2.1*
1,2-Dichlorobenzene	AVRG	1.51634409	3.7*
bis(2-chloroisopropyl) ether	AVRG	2.02102710	1.5*
N-Nitroso-di-n-propylamine	AVRG	1.01735948	3.4**
Hexachloroethane	AVRG	0.67373573	2.4*
Nitrobenzene	AVRG	0.52033203	2.7*
Isophorone	AVRG	0.68419974	1.6*
bis(2-Chloroethoxy) methane	AVRG	0.43444482	1.6*
1,2,4-Trichlorobenzene	AVRG	0.33637297	1.9*
Naphthalene	AVRG	1.02524069	2.9*
4-Chloroaniline	AVRG	0.44619069	1.2*
Hexachlorobutadiene	AVRG	0.21176473	1.9*
2-Methylnaphthalene	AVRG	0.67465025	2.0*
Hexachlorocyclopentadiene	AVRG	0.30044572	25.8**
2-Chloronaphthalene	AVRG	1.20486867	4.1*
2-Nitroaniline	AVRG	0.40576507	4.5*
Dimethylphthalate	AVRG	1.62801841	1.8*
Acenaphthylene	AVRG	1.91437433	3.1*
2,6-Dinitrotoluene	AVRG	0.40095604	2.8*
3-Nitroaniline	AVRG	0.45452710	2.3*
Acenaphthene	AVRG	1.14449839	3.9*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051

1419

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Dibenzofuran	AVRG	1.79104847	4.6*
2,4-Dinitrotoluene	AVRG	0.57824006	5.2*
Diethylphthalate	AVRG	1.83305809	3.0*
4-Chlorophenyl-phenylether	AVRG	0.66131383	8.6*
Fluorene	AVRG	1.41325061	7.8*
4-Nitroaniline	AVRG	0.45307007	2.7*
N-Nitrosodiphenylamine	AVRG	0.55360037	8.4*
4-Bromophenyl-phenylether	AVRG	0.23895795	6.8*
Hexachlorobenzene	AVRG	0.32001871	7.6*
Phenanthrene	AVRG	1.09878725	4.4*
Anthracene	AVRG	1.12314292	4.3*
Carbazole	AVRG	1.06904493	2.4*
Di-n-butylphthalate	AVRG	1.82413137	2.8*
Fluoranthene	AVRG	1.12676281	3.0*
Pyrene	AVRG	1.12998662	4.2*
Benzidine	AVRG	0.41650220	40.5*
Butylbenzylphthalate	AVRG	0.81896804	3.9*
3,3'-Dichlorobenzidine	AVRG	0.40850717	7.4*
Benzo(a)anthracene	AVRG	1.03539595	6.8*
Chrysene	AVRG	0.92404285	3.2*
bis(2-Ethylhexyl)phthalate	AVRG	1.22085372	8.0*
Di-n-octylphthalate	AVRG	2.67817997	10.1*
Benzo(b)fluoranthene	AVRG	1.24175988	6.8*
Benzo(k)fluoranthene	AVRG	1.26232865	5.1*
Benzo(a)pyrene	AVRG	1.13241504	5.6*
Indeno(1,2,3-cd)pyrene	AVRG	0.93244678	7.6*
Dibenz(a,h)anthracene	AVRG	0.97668614	6.6*
Benzo(g,h,i)perylene	AVRG	0.94681036	3.8*
Pyridine	AVRG	1.12521601	14.7*
Aniline	AVRG	1.72575699	3.6*
Benzyl Alcohol	AVRG	0.84308923	3.0*
1,2-Diphenylhydrazine	AVRG	0.86430092	2.3*
Diphenyl	AVRG	1.48483124	4.1**
Diphenyl Ether	AVRG	0.80410894	4.2**
Acetophenone	AVRG	1.90841068	3.2**
N,N-Dimethylaniline	AVRG	1.85684509	1.0**
1,4-Dioxane	AVRG	0.59568419	3.0**
2,3,7,8-TCDD (screen)	AVRG	0.15602493	0.0*
Benzaldehyde	AVRG	0.66019913	30.7*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA (cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date(s): 07/23/01 07/23/01

Calibration Time(s): 1051 1419

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
=====	=====	=====	=====
Caprolactum	AVRG	0.12864176	3.1*
Atrazine	AVRG	0.22861084	3.7*
=====	=====	=====	=====
2-Fluorophenol (SUR)	AVRG	1.10911795	10.8*
Phenol-d5 (SUR)	AVRG	1.55733937	6.0*
2,4,6-Tribromophenol (SUR)	AVRG	0.33224504	6.9*
Nitrobenzene-d5 (SUR)	AVRG	0.37345104	2.5*
2-Fluorobiphenyl (SUR)	AVRG	1.23859619	3.8*
Terphenyl-d14 (SUR)	AVRG	0.88316121	6.2*

* Compound with required maximum % RSD value.

** Compound with required minimum RRF value.

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/24/01 Time: 1028

Lab File ID: AA5708

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051 1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.664	1.663		0.1	20.0
2-Chlorophenol	1.434	1.441		-0.5	20.0
2-Methylphenol	1.144	1.183		-3.4	
4-Methylphenol	1.196	1.198		-0.2	
2-Nitrophenol	0.246	0.248		-0.8	20.0
2,4-Dimethylphenol	0.302	0.310		-2.6	20.0
2,4-Dichlorophenol	0.341	0.340		0.3	20.0
4-Chloro-3-methylphenol	0.325	0.328		-0.9	20.0
2,4,6-Trichlorophenol	0.405	0.413		-2.0	20.0
2,4,5-Trichlorophenol	0.446	0.463		-3.8	
2,4-Dinitrophenol	0.259	0.277	0.05	-6.9	20.0
4-Nitrophenol	0.283	0.262	0.05	7.4	20.0
4,6-Dinitro-2-methylphenol	0.204	0.208		-2.0	20.0
Pentachlorophenol	0.182	0.199		-9.3	20.0
Benzoic Acid	0.164	0.216		-31.7	
N-Nitrosodimethylamine	0.730	0.767	0.01	-5.1	20.0
bis(2-Chloroethyl) ether	1.278	1.312		-2.7	20.0
1,3-Dichlorobenzene	1.588	1.598		-0.6	20.0
1,4-Dichlorobenzene	1.623	1.627		-0.2	20.0
1,2-Dichlorobenzene	1.516	1.530		-0.9	20.0
bis(2-chloroisopropyl) ether	2.021	2.035		-0.7	20.0
N-Nitroso-di-n-propylamine	1.018	1.022	0.05	-0.4	20.0
Hexachloroethane	0.674	0.675		-0.1	20.0
Nitrobenzene	0.520	0.516		0.8	20.0
Isophorone	0.684	0.674		1.5	20.0
bis(2-Chloroethoxy) methane	0.434	0.428		1.4	20.0
1,2,4-Trichlorobenzene	0.336	0.330		1.8	20.0
Naphthalene	1.025	1.040		-1.5	20.0
4-Chloroaniline	0.446	0.411		7.8	
Hexachlorobutadiene	0.212	0.212		0.0	20.0
2-Methylnaphthalene	0.675	0.654		3.1	
Hexachlorocyclopentadiene	0.300	0.335	0.05	-11.7	20.0
2-Chloronaphthalene	1.205	1.209		-0.3	20.0
2-Nitroaniline	0.406	0.394		3.0	
Dimethylphthalate	1.628	1.544		5.2	20.0
Acenaphthylene	1.914	1.892		1.1	20.0
2,6-Dinitrotoluene	0.401	0.390		2.7	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/24/01 Time: 1028

Lab File ID: AA5708

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051 1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
3-Nitroaniline	0.455	0.432		5.0	
Acenaphthene	1.144	1.142		0.2	20.0
Dibenzofuran	1.791	1.750		2.3	
2,4-Dinitrotoluene	0.578	0.526		9.0	20.0
Diethylphthalate	1.833	1.715		6.4	20.0
4-Chlorophenyl-phenylether	0.661	0.628		5.0	20.0
Fluorene	1.413	1.319		6.6	20.0
4-Nitroaniline	0.453	0.391		13.7	
N-Nitrosodiphenylamine	0.554	0.596		-7.6	20.0
4-Bromophenyl-phenylether	0.239	0.251		-5.0	20.0
Hexachlorobenzene	0.320	0.332		-3.8	20.0
Phenanthrene	1.099	1.079		1.8	20.0
Anthracene	1.123	1.102		1.9	20.0
Carbazole	1.069	1.026		4.0	
Di-n-butylphthalate	1.824	1.765		3.2	20.0
Fluoranthene	1.127	1.031		8.5	20.0
Pyrene	1.130	1.190		-5.3	20.0
Benzidine	0.417	0.327		21.6	
Butylbenzylphthalate	0.819	0.844		-3.0	20.0
3,3'-Dichlorobenzidine	0.409	0.408		0.2	20.0
Benzo(a)anthracene	1.035	1.016		1.8	20.0
Chrysene	0.924	0.914		1.1	20.0
bis(2-Ethylhexyl)phthalate	1.221	1.252		-2.5	20.0
Di-n-octylphthalate	2.678	2.778		-3.7	20.0
Benzo(b)fluoranthene	1.242	1.226		1.3	20.0
Benzo(k)fluoranthene	1.262	1.290		-2.2	20.0
Benzo(a)pyrene	1.132	1.124		0.7	20.0
Indeno(1,2,3-cd)pyrene	0.932	0.912		2.1	20.0
Dibenz(a,h)anthracene	0.977	0.975		0.2	20.0
Benzo(g,h,i)perylene	0.947	0.940		0.7	20.0
Pyridine	1.125	1.250		-11.1	
Aniline	1.726	1.741		-0.9	
Benzyl Alcohol	0.843	0.857		-1.7	
1,2-Diphenylhydrazine	0.864	0.936		-8.3	
Diphenyl	1.485	1.506	0.001	-1.4	20.0
Diphenyl Ether	0.804	0.808	0.001	-0.5	20.0
Acetophenone	1.908	1.894	0.001	0.7	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/24/01 Time: 1028

Lab File ID: AA5708

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051 1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
N,N-Dimethylaniline	1.857	1.850	0.001	0.4	20.0
1,4-Dioxane	0.596	0.583	0.01	2.2	20.0
2,3,7,8-TCDD (screen)	0.156	0.155		0.6	20.0
Benzaldehyde	0.660	0.640		3.0	20.0
Caprolactum	0.128	0.123		3.9	20.0
Atrazine	0.229	0.222		3.0	20.0
2-Fluorophenol (SUR)	1.109	1.163		-4.9	
Phenol-d5 (SUR)	1.557	1.612		-3.5	
2,4,6-Tribromophenol (SUR)	0.332	0.318		4.2	20.0
Nitrobenzene-d5 (SUR)	0.373	0.368		1.3	
2-Fluorobiphenyl (SUR)	1.239	1.248		-0.7	
Terphenyl-d14 (SUR)	0.883	0.922		-4.4	

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/26/01 Time: 1013

Lab File ID: AA5760

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051

1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.664	1.672		-0.5	20.0
2-Chlorophenol	1.434	1.433		0.1	20.0
2-Methylphenol	1.144	1.162		-1.6	
4-Methylphenol	1.196	1.174		1.8	
2-Nitrophenol	0.246	0.252		-2.4	20.0
2,4-Dimethylphenol	0.302	0.308		-2.0	20.0
2,4-Dichlorophenol	0.341	0.346		-1.5	20.0
4-Chloro-3-methylphenol	0.325	0.329		-1.2	20.0
2,4,6-Trichlorophenol	0.405	0.413		-2.0	20.0
2,4,5-Trichlorophenol	0.446	0.466		-4.5	
2,4-Dinitrophenol	0.259	0.244	0.05	5.8	20.0
4-Nitrophenol	0.283	0.247	0.05	12.7	20.0
4,6-Dinitro-2-methylphenol	0.204	0.211		-3.4	20.0
Pentachlorophenol	0.182	0.201		-10.4	20.0
Benzoic Acid	0.164	0.175		-6.7	
N-Nitrosodimethylamine	0.730	0.764	0.01	-4.6	20.0
bis(2-Chloroethyl) ether	1.278	1.270		0.6	20.0
1,3-Dichlorobenzene	1.588	1.564		1.5	20.0
1,4-Dichlorobenzene	1.623	1.596		1.7	20.0
1,2-Dichlorobenzene	1.516	1.548		-2.1	20.0
bis(2-chloroisopropyl) ether	2.021	2.030		-0.4	20.0
N-Nitroso-di-n-propylamine	1.018	1.037	0.05	-1.9	20.0
Hexachloroethane	0.674	0.658		2.4	20.0
Nitrobenzene	0.520	0.520		0.0	20.0
Isophorone	0.684	0.688		-0.6	20.0
bis(2-Chloroethoxy) methane	0.434	0.431		0.7	20.0
1,2,4-Trichlorobenzene	0.336	0.334		0.6	20.0
Naphthalene	1.025	1.014		1.1	20.0
4-Chloroaniline	0.446	0.421		5.6	
Hexachlorobutadiene	0.212	0.216		-1.9	20.0
2-Methylnaphthalene	0.675	0.662		1.9	
Hexachlorocyclopentadiene	0.300	0.329	0.05	-9.7	20.0
2-Chloronaphthalene	1.205	1.219		-1.2	20.0
2-Nitroaniline	0.406	0.381		6.2	
Dimethylphthalate	1.628	1.539		5.5	20.0
Acenaphthylene	1.914	1.872		2.2	20.0
2,6-Dinitrotoluene	0.401	0.378		5.7	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/26/01 Time: 1013

Lab File ID: AA5760

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051 1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
=====	=====	=====	=====	=====	=====
3-Nitroaniline	0.455	0.416		8.6	
Acenaphthene	1.144	1.128		1.4	20.0
Dibenzofuran	1.791	1.707		4.7	
2,4-Dinitrotoluene	0.578	0.511		11.6	20.0
Diethylphthalate	1.833	1.686		8.0	20.0
4-Chlorophenyl-phenylether	0.661	0.647		2.1	20.0
Fluorene	1.413	1.314		7.0	20.0
4-Nitroaniline	0.453	0.372		17.9	
N-Nitrosodiphenylamine	0.554	0.598		-7.9	20.0
4-Bromophenyl-phenylether	0.239	0.255		-6.7	20.0
Hexachlorobenzene	0.320	0.348		-8.8	20.0
Phenanthrene	1.099	1.080		1.7	20.0
Anthracene	1.123	1.094		2.6	20.0
Carbazole	1.069	1.009		5.6	
Di-n-butylphthalate	1.824	1.746		4.3	20.0
Fluoranthene	1.127	1.013		10.1	20.0
Pyrene	1.130	1.200		-6.2	20.0
Benzidine	0.417	0.294		29.5	
Butylbenzylphthalate	0.819	0.820		-0.1	20.0
3,3'-Dichlorobenzidine	0.409	0.407		0.5	20.0
Benzo(a)anthracene	1.035	0.998		3.6	20.0
Chrysene	0.924	0.913		1.2	20.0
bis(2-Ethylhexyl)phthalate	1.221	1.186		2.9	20.0
Di-n-octylphthalate	2.678	2.653		0.9	20.0
Benzo(b)fluoranthene	1.242	1.235		0.6	20.0
Benzo(k)fluoranthene	1.262	1.248		1.1	20.0
Benzo(a)pyrene	1.132	1.114		1.6	20.0
Indeno(1,2,3-cd)pyrene	0.932	0.934		-0.2	20.0
Dibenz(a,h)anthracene	0.977	0.944		3.4	20.0
Benzo(g,h,i)perylene	0.947	0.925		2.3	20.0
Pyridine	1.125	1.249		-11.0	
Aniline	1.726	1.717		0.5	
Benzyl Alcohol	0.843	0.847		-0.5	
1,2-Diphenylhydrazine	0.864	0.924		-6.9	
Diphenyl	1.485	1.506	0.001	-1.4	20.0
Diphenyl Ether	0.804	0.818	0.001	-1.7	20.0
Acetophenone	1.908	1.900	0.001	0.4	20.0

SEMIVOLATILE ORGANICS CONTINUING CALIBRATION CHECK(cont'd)
METHOD 625

Instrument ID: BNAMS8

Calibration Date: 07/26/01 Time: 1013

Lab File ID: AA5760

Init. Calib. Date(s): 07/23/01 07/23/01

Init. Calib. Times: 1051 1419

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
N,N-Dimethylaniline	1.857	1.843	0.001	0.8	20.0
1,4-Dioxane	0.596	0.553	0.01	7.2	20.0
2,3,7,8-TCDD (screen)	0.156	0.199		-27.6	20.0
Benzaldehyde	0.660	0.646		2.1	20.0
Caprolactum	0.128	0.118		7.8	20.0
Atrazine	0.229	0.220		3.9	20.0
2-Fluorophenol (SUR)	1.109	1.135		-2.3	
Phenol-d5 (SUR)	1.557	1.558		-0.1	
2,4,6-Tribromophenol (SUR)	0.332	0.322		3.0	20.0
Nitrobenzene-d5 (SUR)	0.373	0.375		-0.5	
2-Fluorobiphenyl (SUR)	1.239	1.268		-2.3	
Terphenyl-d14 (SUR)	0.883	0.947		-7.2	

Surrogate Compound Recovery Summary

SEMI-VOLATILE SURROGATE RECOVERY
METHOD 8270C

Matrix: SOIL

Level: LOW

Lab Job No: M838

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	SB202	90	90	90		0
02	289213	93	92	91		0
03	289213MS	96	95	96		0
04	289213MSD	90	89	88		0
05	289210	86	85	86		0
06	289211	88	84	90		0
07	289212	83	84	88		0
08	289214	92	92	91		0
09	289215	84	82	86		0
10	289216	87	86	86		0
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30						

QC LIMITS

S1 = Nitrobenzene-d5 (58-114)
 S2 = 2-Fluorobiphenyl (67-116)
 S3 = Terphenyl-d14 (63-134)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

SEMI-VOLATILE SURROGATE RECOVERY
METHOD 625

Matrix: WATER Level: LOW Lab Job No: M838

	LAB SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	WB204	46	27	96	90	96	115	0
02	289207				86	96	110	0
03								
04								
05								
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QC LIMITS

S1	= 2-Fluorophenol	(23- 65)
S2	= Phenol-d5	(12- 44)
S3	= 2,4,6-Tribromophenol	(46-135)
S4	= Nitrobenzene-d5	(43-126)
S5	= 2-Fluorobiphenyl	(46-126)
S6	= Terphenyl-d14	(55-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Spike Recovery Summary

SEMI-VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8270C

Matrix: SOIL

Matrix Spike - Lab Sample No.: 289213

Level: LOW

MS Sample from Lab Job No: M838

QA Batch: 7652

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	8000	0.00	7700	96	55-124
2-Chlorophenol	8000	0.00	7600	95	64-120
4-Chloro-3-methylphenol	8000	0.00	7500	94	69-127
4-Nitrophenol	8000	0.00	8000	100	44-154
Pentachlorophenol	8000	22	7400	92	42-144
1,4-Dichlorobenzene	4000	0.00	3400	85	52-117
N-Nitroso-di-n-propylami	4000	0.00	3500	88	53-124
1,2,4-Trichlorobenzene	4000	0.00	3500	88	67-116
Acenaphthene	4000	0.00	3800	95	76-121
2,4-Dinitrotoluene	4000	0.00	4100	102	76-123
Pyrene	4000	28	3900	97	66-146

Compound	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	8000	7100	89	8	40 55-124
2-Chlorophenol	8000	7000	88	8	40 64-120
4-Chloro-3-methylphenol	8000	6900	86	8	40 69-127
4-Nitrophenol	8000	7500	94	6	40 44-154
Pentachlorophenol	8000	6900	86	7	40 42-144
1,4-Dichlorobenzene	4000	3100	78	9	40 52-117
N-Nitroso-di-n-propylami	4000	3200	80	9	40 53-124
1,2,4-Trichlorobenzene	4000	3300	82	6	40 67-116
Acenaphthene	4000	3400	85	11	40 76-121
2,4-Dinitrotoluene	4000	3700	92	10	40 76-123
Pyrene	4000	3500	87	11	40 66-146

Column to be used to flag recovery and RPD values with an asterik
* Values outside of QC limits
RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS:

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Matrix Spike - Lab Sample No.: 288464

Level: LOW

MS Sample from Lab Job No: M737

QA Batch: 6501

Compound	MS % REC.	BS % REC.	LIMITS
Phenol	33	33	5-112
2-Chlorophenol	80	79	23-134
2-Nitrophenol	92	91	29-182
2,4-Dimethylphenol	68	84	32-119
2,4-Dichlorophenol	92	92	39-135
4-Chloro-3-methylphenol	92	89	22-147
2,4,6-Trichlorophenol	94	96	37-144
2,4-Dinitrophenol	86	73	0-191
4-Nitrophenol	28	26	0-132
4,6-Dinitro-2-methylphenol	94	94	0-181
Pentachlorophenol	88	85	14-176
bis(2-Chloroethyl) ether	88	87	12-158
1,3-Dichlorobenzene	73	73	0-172
1,4-Dichlorobenzene	75	75	20-124
1,2-Dichlorobenzene	78	80	32-129
bis(2-chloroisopropyl) ether	91	88	36-166
N-Nitroso-di-n-propylamine	93	88	0-230
Hexachloroethane	65	64	40-113
Nitrobenzene	87	86	35-180
Isophorone	89	90	21-196
bis(2-Chloroethoxy) methane	92	91	33-184
1,2,4-Trichlorobenzene	81	82	44-142
Naphthalene	87	87	21-133
Hexachlorobutadiene	64	65	24-116
2-Chloronaphthalene	92	91	60-118
Dimethylphthalate	95	93	0-112
Acenaphthylene	93	93	33-145
2,6-Dinitrotoluene	97	96	50-158
Acenaphthene	93	90	47-145
2,4-Dinitrotoluene	92	91	39-139

* Values outside of QC limits

SEMI-VOLATILE SPIKE RECOVERY SUMMARY
METHOD 625

Matrix: WATER

Matrix Spike - Lab Sample No.: 288464

Level: LOW

MS Sample from Lab Job No: M737

QA Batch: 6501

Compound	MS % REC.	BS % REC.	LIMITS
Diethylphthalate	96	93	0-114
4-Chlorophenyl-phenylether	92	91	25-158
Fluorene	91	90	59-121
4-Bromophenyl-phenylether	94	99	53-127
Hexachlorobenzene	93	97	0-152
Phenanthrene	94	96	54-120
Anthracene	94	97	27-133
Di-n-butylphthalate	95	95	1-118
Fluoranthene	95	94	26-137
Pyrene	100	100	52-115
Butylbenzylphthalate	100	96	0-152
3,3'-Dichlorobenzidine	79	82	0-262
Benzo(a)anthracene	97	94	33-143
Chrysene	98	94	17-168
bis(2-Ethylhexyl)phthalate	99	96	8-158
Di-n-octylphthalate	98	97	4-146
Benzo(b)fluoranthene	98	95	24-159
Benzo(k)fluoranthene	98	98	11-162
Benzo(a)pyrene	96	94	17-163
Indeno(1,2,3-cd)pyrene	98	96	0-171
Dibenz(a,h)anthracene	97	93	0-227
Benzo(g,h,i)perylene	98	95	0-219

* Values outside of QC limits

Spike Recovery: 0 out of 104 outside limits

COMMENTS: _____

Internal Standard Area and RT Summary

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L6515

Date Analyzed: 07/23/01

Instrument ID: BNAMS7

Time Analyzed: 1237

		IS1 (DCB)		IS2 (NPT)		IS3 (CRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	612143	12.97	2280010	15.16	2344052	24.98
	UPPER LIMIT	1224286	13.47	4560020	15.66	4688104	25.48
	LOWER LIMIT	306072	12.47	1140005	14.66	1172026	24.48
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY						
	SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	SB202	527283	12.97	1960617	15.15	2188733	24.96
02	289213	548953	12.97	2081518	15.14	2339128	24.97
03	289213MS	621954	12.97	2338607	15.16	2346274	24.98
04	289213MSD	637787	12.97	2414176	15.15	2429398	24.98
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (CRY) = Chrysene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L6515

Date Analyzed: 07/23/01

Instrument ID: BNAMS7

Time Analyzed: 1237

		IS4 (ANT)		IS5 (PHN)		IS6 (PRY)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	1296564	18.08	2405587	20.56	2548241	28.51
	UPPER LIMIT	2593128	18.58	4811174	21.06	5096482	29.01
	LOWER LIMIT	648282	17.58	1202794	20.06	1274120	28.01
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY						
	SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	SB202	1122888	18.08	2028053	20.55	2255259	28.48
02	289213	1193870	18.08	2153525	20.54	2365285	28.49
03	289213MS	1317182	18.08	2367247	20.56	2501038	28.50
04	289213MSD	1350936	18.09	2452076	20.55	2557139	28.50
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IS4 (ANT) = Acenaphthene-d10

IS5 (PHN) = Phenanthrene-d10

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L6536

Date Analyzed: 07/24/01

Instrument ID: BNAMS7

Time Analyzed: 0618

		IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (CRY)	RT #
		AREA #		AREA #		AREA #	
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	641113	12.97	2412660	15.14	2586958	24.98
	UPPER LIMIT	1282226	13.47	4825320	15.64	5173916	25.48
	LOWER LIMIT	320556	12.47	1206330	14.64	1293479	24.48
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY						
	SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	289210	525305	12.96	1958820	15.14	2411328	24.96
02	289211	536271	12.95	2004161	15.14	2381204	24.96
03	289212	552803	12.96	2072617	15.14	2378980	24.96
04	289214	561025	12.96	2133038	15.14	2477301	24.96
05	289215	549009	12.96	2095315	15.14	2403440	24.96
06	289216	582924	12.96	2241396	15.15	2567525	24.96
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IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (CRY) = Chrysene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): L6536

Date Analyzed: 07/24/01

Instrument ID: BNAMS7

Time Analyzed: 0618

	IS4 (ANT)	RT #	IS5 (PHN)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	1412255	18.08	2563494	20.55	2669845	28.50
UPPER LIMIT	2824510	18.58	5126988	21.05	5339690	29.00
LOWER LIMIT	706128	17.58	1281747	20.05	1334922	28.00
=====	=====	=====	=====	=====	=====	=====
LABORATORY						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 289210	1155744	18.07	2190053	20.55	2399714	28.48
02 289211	1182204	18.07	2155384	20.54	2374285	28.48
03 289212	1192730	18.07	2206979	20.54	2408864	28.48
04 289214	1251793	18.08	2311206	20.54	2406480	28.48
05 289215	1232912	18.07	2252915	20.54	2405956	28.48
06 289216	1303727	18.07	2402734	20.54	2564269	28.48
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IS4 (ANT) = Acenaphthene-d10

IS5 (PHN) = Phenanthrene-d10

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA5708

Date Analyzed: 07/24/01

Instrument ID: BNAMS8

Time Analyzed: 1028

		IS1 (DCB)	RT #	IS2 (NPT)	RT #	IS3 (CRY)	RT #
		AREA #		AREA #		AREA #	
	=====	=====	=====	=====	=====	=====	=====
	12 HOUR STD	257795	12.52	981873	14.72	715821	24.50
	UPPER LIMIT	515590	13.02	1963746	15.22	1431642	25.00
	LOWER LIMIT	128898	12.02	490936	14.22	357910	24.00
	=====	=====	=====	=====	=====	=====	=====
	LABORATORY						
	SAMPLE NO.						
	=====	=====	=====	=====	=====	=====	=====
01	WB204	232752	12.52	874209	14.72	735684	24.49
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (CRY) = Chrysene-d12

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

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA5708

Date Analyzed: 07/24/01

Instrument ID: BNAMS8

Time Analyzed: 1028

	IS4 (ANT)	RT #	IS5 (PHN)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	545675	17.66	870319	20.12	491874	27.61
UPPER LIMIT	1091350	18.16	1740638	20.62	983748	28.11
LOWER LIMIT	272838	17.16	435160	19.62	245937	27.11
=====	=====	=====	=====	=====	=====	=====
LABORATORY						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 WB204	503893	17.66	871162	20.11	508432	27.61
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (ANT) = Acenaphthene-d10
 IS5 (PHN) = Phenanthrene-d10
 IS6 (PRY) = Perylene-d12

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

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA5760

Date Analyzed: 07/26/01

Instrument ID: BNAMS8

Time Analyzed: 1013

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (CRY) AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	286124	12.52	1082936	14.71	757912	24.50
UPPER LIMIT	572248	13.02	2165872	15.21	1515824	25.00
LOWER LIMIT	143062	12.02	541468	14.21	378956	24.00
=====	=====	=====	=====	=====	=====	=====
LABORATORY SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 289207	296485	12.51	1052186	14.70	545543	24.48
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NPT) = Naphthalene-d8
 IS3 (CRY) = Chrysene-d12

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

Column used to flag internal standard area values with an asterisk.
 * Values outside of QC limits.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab File ID (Standard): AA5760

Date Analyzed: 07/26/01

Instrument ID: BNAMS8

Time Analyzed: 1013

	IS4 (ANT)	RT #	IS5 (PHN)	RT #	IS6 (PRY)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	605782	17.65	939167	20.12	522641	27.62
UPPER LIMIT	1211564	18.15	1878334	20.62	1045282	28.12
LOWER LIMIT	302891	17.15	469584	19.62	261320	27.12
=====	=====	=====	=====	=====	=====	=====
LABORATORY						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 289207	541163	17.64	771466	20.11	406762	27.60
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (ANT) = Acenaphthene-d10

IS5 (PHN) = Phenanthrene-d10

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.

* Values outside of QC limits.

GC Forms and Data

Method 608 (Pesticides/PCBs) Results Summary

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample ID: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/20/01
Date Analyzed: 08/02/01
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 990 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr023516.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Aroclor-1016	ND	0.20
Aroclor-1221	ND	0.20
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.20
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.50
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

QA Summary

GC ORGANICS SURROGATE RECOVERY

Matrix: WATER

Level: LOW

Lab Job No: M838

	LABORATORY SAMPLE NO.	TCX %REC #	DCB %REC #	TOT OUT
	=====	=====	=====	=====
01	WP201A	98	105	0
02	289207	116	130	0
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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17				
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22				
23				
24				
25				
26				
27				
28				
29				
30				

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (55-144)
 S2 (DCB) = Decachlorobiphenyl (35-142)

Column to be used to flag recovery values
 * Values outside of advisory QC limits
 D Surrogate diluted out
 R Surrogate removed during H2SO4 cleanup procedure
 ** Not detected due to coeluting interference

GC ORGANICS MATRIX SPIKE/BLANK SPIKE RECOVERY SUMMARY
METHOD 608

Matrix: WATER

Matrix Spike - Lab Sample No.: 286937

Level: LOW

MS Sample from Lab Job No: M473

QA Batch: 7713

Compound	MS % REC.	BS % REC.	LIMITS
=====	=====	=====	=====
Aroclor-1016	110	124 *	50-114
Aroclor-1260	110	142 *	8-127

* Values outside of QC limits

Spike Recovery: 2 out of 4 outside limits

COMMENTS: Matrix Spike Duplicate within QC limits.

GC MATRIX SPIKE DUPLICATE RECOVERY

Matrix: WATER

Matrix Spike - Lab Sample No.: 286937

Level: LOW

MS Sample from Lab Job No: M473

QA Batch:

Compound	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Aroclor-1016	5.0	0.00	5.2	104	50-114
Aroclor-1260	5.0	0.00	5.9	118	8-127

Column to be used to flag recovery values with an asterik

* Values outside of QC limits

Spike Recovery: 0 out of 2 outside limits

COMMENTS:

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

WP201A

Matrix: WATER

Date Analyzed: 08/02/01

Level: LOW

Time Analyzed: 0131

Instrument ID: PESTGC6

Lab File ID: NR023510

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	FB-1	289207	nr023516.d	08/02/01
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: WP201A
Site:

Lab Sample ID: WP201A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/20/01
Date Analyzed: 08/02/01
GC Column: DB-608
Instrument ID: PESTGC6.i

Matrix: WATER
Sample Volume: 1000 ml
Extract Final Volume: 5.0 ml
Dilution Factor: 1.0
Lab File ID: nr023510.d

ORGANOCHLORINE PCBs - GC/ECD
METHOD 608

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Aroclor-1016	ND	0.20
Aroclor-1221	ND	0.20
Aroclor-1232	ND	0.30
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.20
Aroclor-1254	ND	0.40
Aroclor-1260	ND	0.50
Aroclor-1262	ND	0.20
Aroclor-1268	ND	0.20

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b,
as of 09/05/2001 09:41)

Instrument ID: PESTGC6.i Column ID: DB-608 Primary Column

Dates of Analysis: 08/02/01 to 08/02/01

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 27.510

Lab Sample ID	Data File	Injection Time	RT	DLT RT
WP201A	nr023510.d	02-AUG-2001 01:31	27.517	0.007
289207	nr023516.d	02-AUG-2001 04:45	27.520	0.010

D = Surrogate diluted out.

Analytical Sequence

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608

Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
	=====	=====	=====	=====	=====	=====
1	1016/1260-1000a		nr022935.d	CALIB_3	07/04/01	1117
2	1016/1260-200a		nr022938.d	CALIB_1	07/04/01	1254
3	1016/1260-500a		nr022939.d	CALIB_2	07/04/01	1327
4	1016/1260-2500a		nr022941.d	CALIB_5	07/04/01	1432
5	1016/1260-1500a		nr022942.d	CALIB_4	07/04/01	1516
6	PEST MIX-100a		nr023476.d	CALIB_3	08/01/01	0708
7	1016/1260-1000a		nr023477.d	CCALIB_3	08/01/01	0740
8	PEST MIX-4a		nr023481.d	CALIB_1	08/01/01	0950
9	PEST MIX-50a		nr023482.d	CALIB_2	08/01/01	1023
10	PEST MIX-250a		nr023483.d	CALIB_4	08/01/01	1055
11	PEST MIX-500a		nr023484.d	CALIB_5	08/01/01	1127
12	WP201A		nr023510.d	BLANK	08/02/01	0131
13	289207	FB-1	nr023516.d	SAMPLE	08/02/01	0445

Raw Data

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608

Primary Column

Calibration Files:

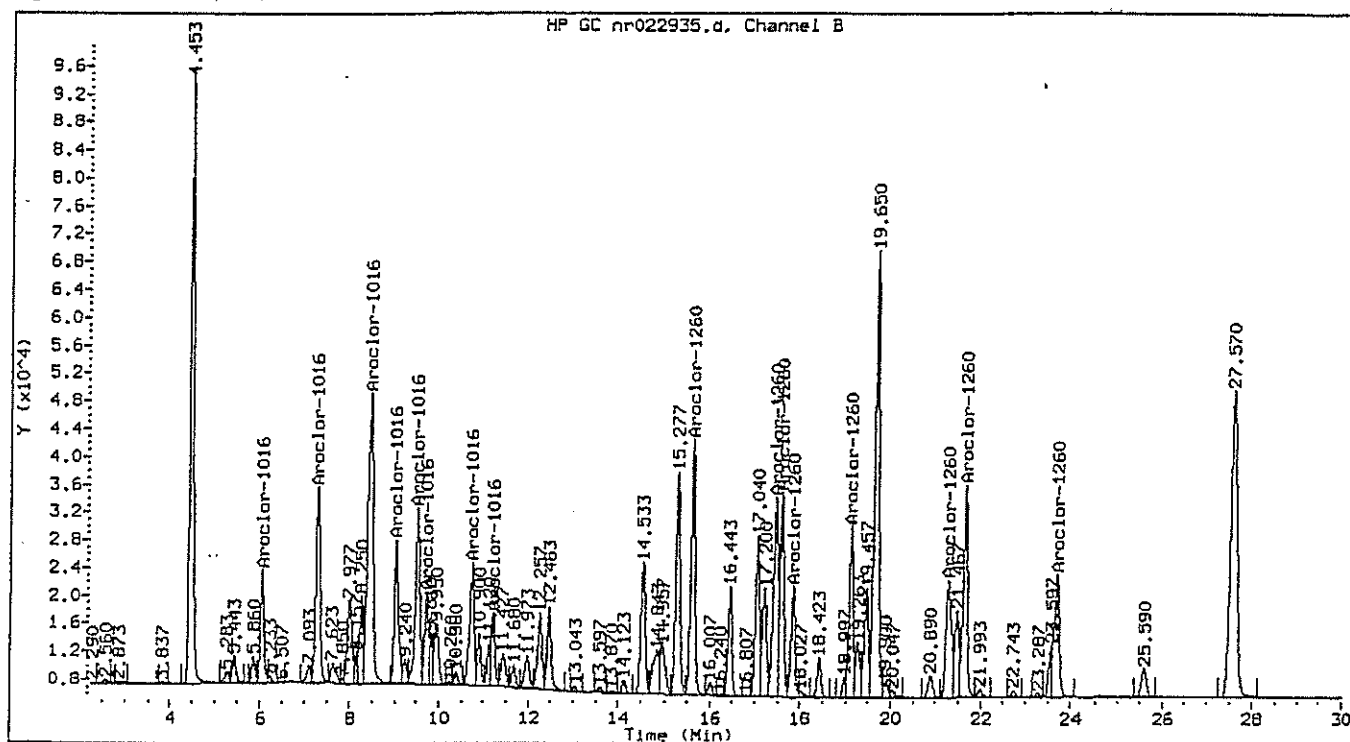
/chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/nr022938.d
 /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/nr022939.d
 /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/nr022935.d
 /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/nr022942.d
 /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/nr022941.d

Compound	Level	Level	Level	Level	Level	Coefficients			*RSD	
	1	2	3	4	5	a0	a1	a2	or R^2	
Aroclor-1016	1	92.80	94.08	87.42	81.49	76.04	-2.24986	0.01022	1.5609e-08	0.99983
	2	207.26	203.31	185.95	171.99	161.21	-8.96397	0.00484	3.4727e-09	0.99967
	3	383.77	394.71	361.01	334.64	319.73	-9.28186	0.00258	7.1641e-10	0.99945
	4	151.06	153.48	134.60	127.46	120.33	-12.97805	0.00676	5.3869e-09	0.99949
	5	180.08	191.80	170.62	160.03	152.43	-9.22478	0.00540	3.1808e-09	0.99940
	6	87.44	90.10	80.25	73.24	67.59	-5.15072	0.01069	2.4811e-08	0.99953
	7	133.65	137.03	122.79	114.30	108.76	-11.55789	0.00751	6.4864e-09	0.99941
	8	64.33	75.20	63.81	64.79	61.77	-3.13346	0.01432	1.2308e-08	0.99894
Aroclor-1260	1	293.94	266.08	232.92	234.29	219.23	-17.64366	0.00392	1.2253e-09	0.99935
	2	254.54	235.58	192.05	215.70	209.22	-21.54494	0.00487	-1.208e-10	0.99687
	3	209.44	190.05	193.39	165.46	154.89	0.58870	0.00458	4.8904e-09	0.99794
	4	112.72	106.51	102.31	95.87	91.86	-8.77230	0.00928	7.2658e-09	0.99977
	5	174.93	165.82	162.43	148.56	142.30	-6.36799	0.00583	3.4807e-09	0.99946
	6	135.40	130.78	141.29	122.53	120.33	4.53204	0.00695	4.5711e-09	0.99756
	7	214.60	207.68	199.52	195.80	193.36	-9.34704	0.00496	4.8342e-10	0.99992
	8	129.47	126.35	140.44	118.21	121.93	-0.37843	0.00752	2.3374e-09	0.99555

Comments:

* = *RSD exceeded maximum upper limit. Non-linear curve used for quantitation.

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 04-JUL-2001 11:17
Operator : AB 07/10/01
Cpnd Sublist: AR16600
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	6.047	6.047	0.000	87416	1010.634
(2)		7.277	7.277	0.000	185952	1012.005
(3)		8.453	8.453	0.000	361010	1014.754
(4)		9.017	9.017	0.000	134599	994.572
(5)		9.500	9.500	0.000	170615	1004.013
(6)		9.707	9.707	0.000	80246	1012.078
(7)		10.733	10.733	0.000	122794	1008.308
(8)		11.203	11.203	0.000	63814	960.783

Average of peak concentrations:

1000.00

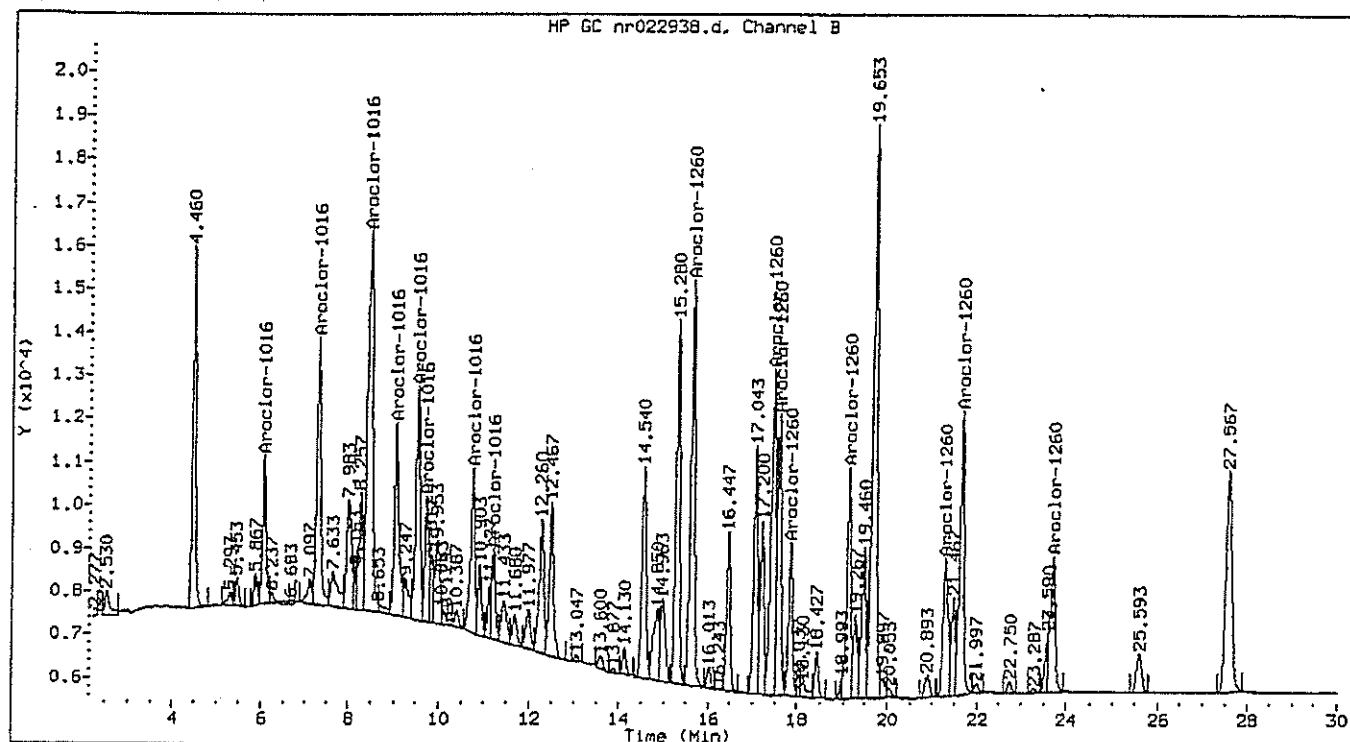
Aroclor-1260	(M)	15.600	15.600	0.000	232916	962.393
(2)		17.430	17.430	0.000	192054	909.563
(3)		17.563	17.563	0.000	193392	1069.891
(4)		17.833	17.833	0.000	102311	1016.810
(5)		19.103	19.103	0.000	162426	1031.925
(6)		21.263	21.263	0.000	141286	1077.310

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
(7)	21.630	21.630	0.000	199517	1000.242	1000.242
(8)	23.690	23.690	0.000	140442	1102.459	1102.459

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/Nr608.m
Sample Info : 1016/1260-200a
Lab ID : 1016/1260-200a
Inj Date : 04-JUL-2001 12:54
Operator : AB *07/10/01*
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016 (M)	6.053	6.047	0.007	18559	192.845	192.845
(2)	7.283	7.277	0.007	41452	197.827	197.827
(3)	8.460	8.453	0.007	76755	192.809	192.809
(4)	9.023	9.017	0.007	30213	196.194	196.194
(5)	9.510	9.500	0.010	36016	189.245	189.245
(6)	9.713	9.707	0.007	17489	189.315	189.315
(7)	10.737	10.733	0.003	26730	193.792	193.792
(8)	11.210	11.203	0.007	12867	183.156	183.156

Average of peak concentrations:

190.00

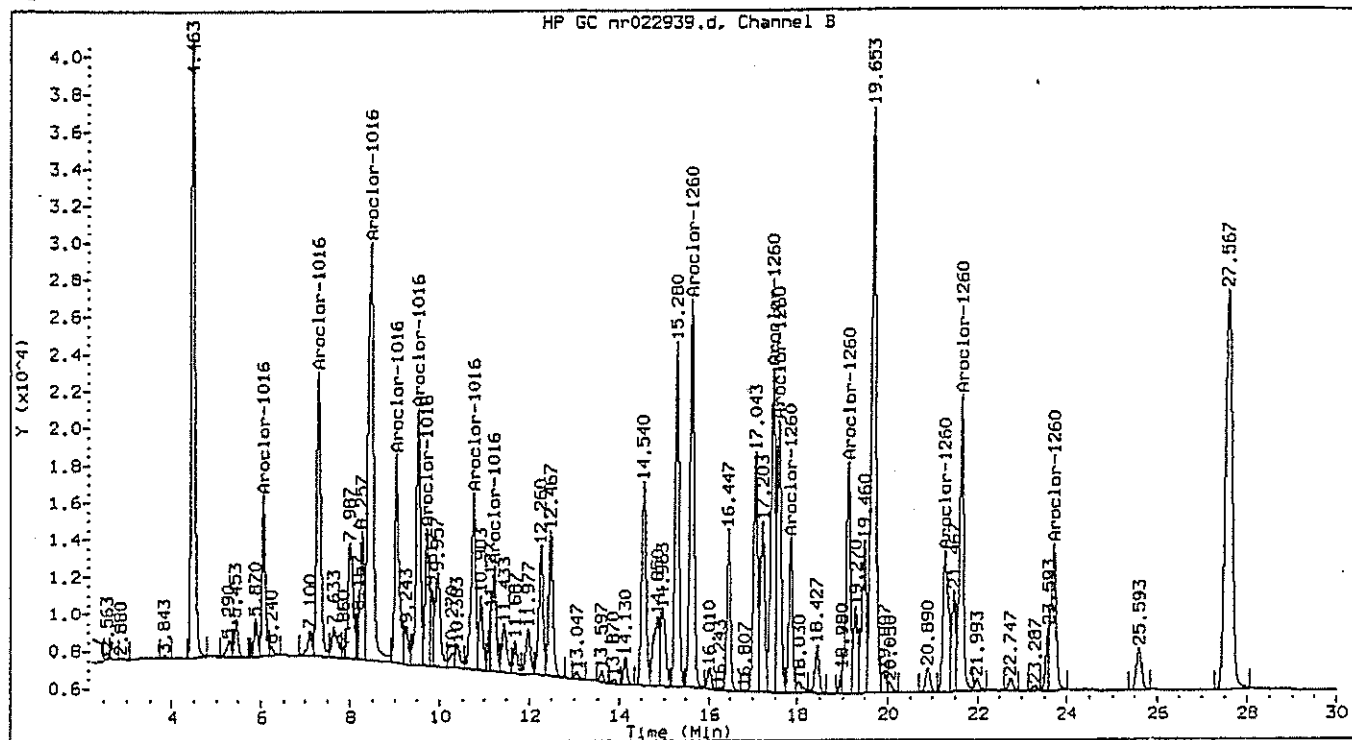
Aroclor-1260 (M)	15.603	15.600	0.003	58787	217.171	217.171
(2)	17.433	17.430	0.003	50909	226.138	226.138
(3)	17.563	17.563	0.000	41888	201.160	201.160
(4)	17.840	17.833	0.007	22543	204.137	204.137
(5)	19.107	19.103	0.003	34985	201.752	201.752
(6)	21.267	21.263	0.003	27079	196.005	196.005

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
(7)	21.633	21.630	0.003	42921	204.591	204.591
(8)	23.693	23.690	0.003	25894	196.024	196.024

Average of peak concentrations: 200.00

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/Nr608.m
Sample Info : 1016/1260-500a
Lab ID : 1016/1260-500a
Inj Date : 04-JUL-2001 13:27
Operator : AB *07/10/01*
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_2

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/L)
Aroclor-1016	(M)	6.053	6.047	0.007	47040	513.154	513.154
	(2)	7.283	7.277	0.007	101654	519.409	519.409
	(3)	8.463	8.453	0.010	197353	527.388	527.388
	(4)	9.023	9.017	0.007	76742	537.561	537.561
	(5)	9.510	9.500	0.010	95902	537.521	537.521
	(6)	9.713	9.707	0.007	45049	526.567	526.567
	(7)	10.740	10.733	0.007	68516	533.379	533.379
	(8)	11.210	11.203	0.007	37599	552.672	552.672

Average of peak concentrations:

530.00

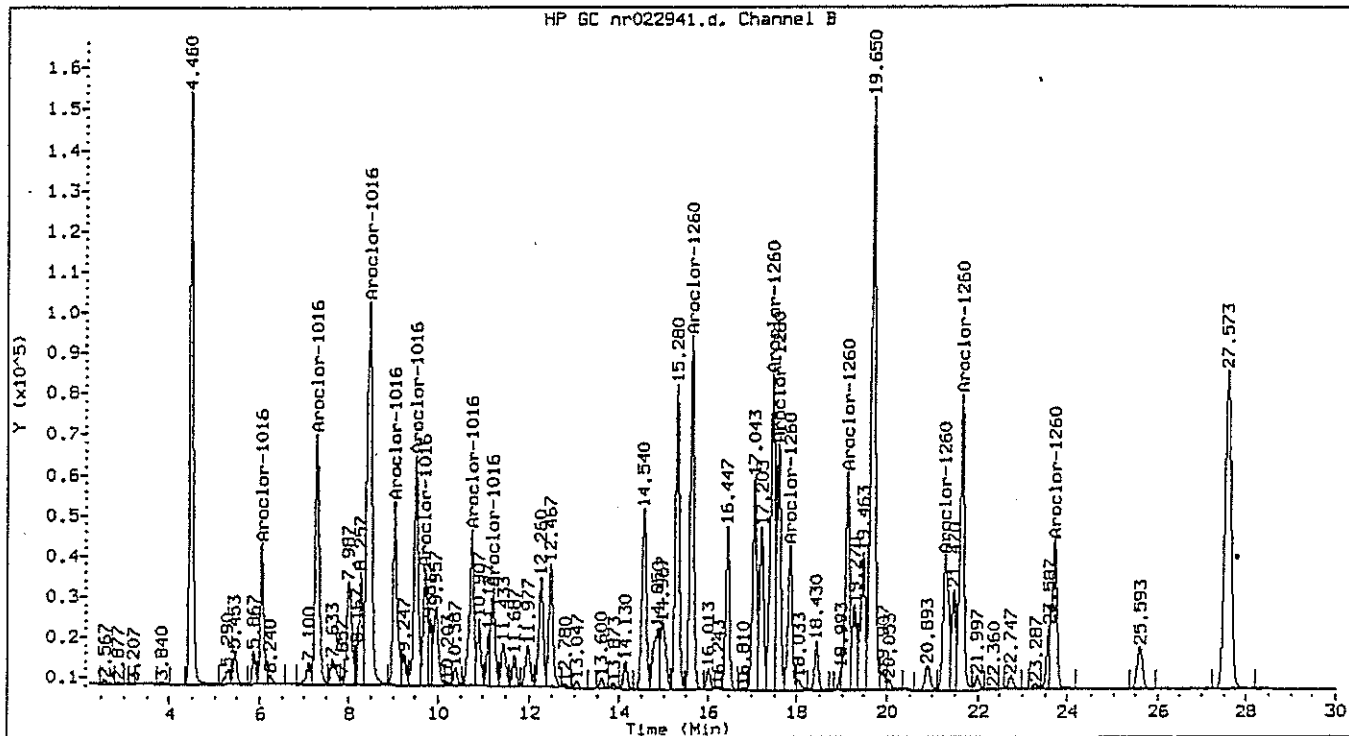
Aroclor-1260	(M)	15.603	15.600	0.003	133040	525.865	525.865
	(2)	17.433	17.430	0.003	117791	550.581	550.581
	(3)	17.567	17.563	0.003	95027	480.300	480.300
	(4)	17.840	17.833	0.007	53254	506.073	506.073
	(5)	19.107	19.103	0.003	82912	500.692	500.692
	(6)	21.267	21.263	0.003	65390	478.350	478.350

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
(7)	21.630	21.630	0.000	103838	511.288	511.288
(8)	23.693	23.690	0.003	63177	484.316	484.316

Average of peak concentrations: 500.00

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/Nr608.m
Sample Info : 1016/1260-2500a
Lab ID : 1016/1260-2500a
Inj Date : 04-JUL-2001 14:32
Operator : AB *07/10/01*
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/L)
Aroclor-1016	(M)	6.050	6.047	0.003	190096	2505.049	2505.049
	(2)	7.283	7.277	0.007	403030	2507.693	2507.693
	(3)	8.460	8.453	0.007	799332	2509.097	2509.097
	(4)	9.023	9.017	0.007	300820	2508.188	2508.188
	(5)	9.507	9.500	0.007	381085	2509.065	2509.065
	(6)	9.713	9.707	0.007	168979	2508.912	2508.912
	(7)	10.740	10.733	0.007	271889	2509.558	2509.558
	(8)	11.210	11.203	0.007	154433	2501.834	2501.834

Average of peak concentrations:

2500.00

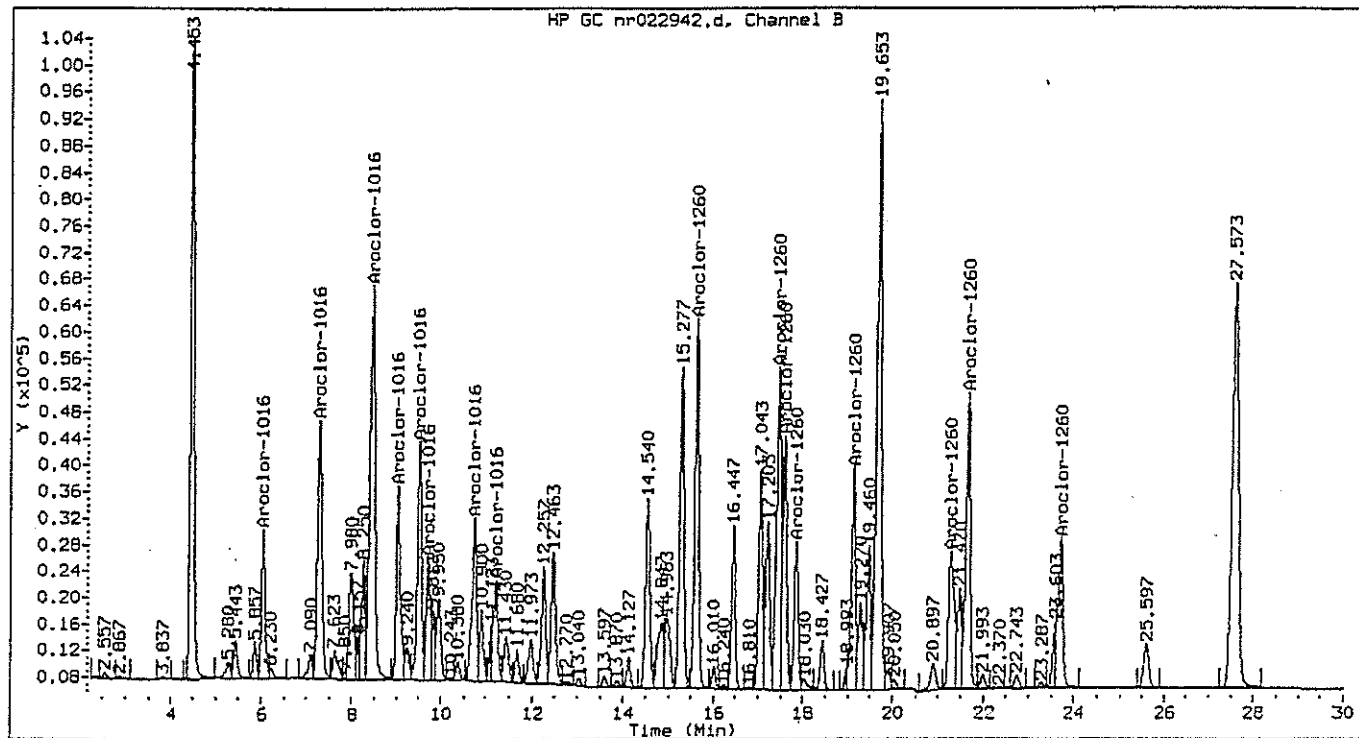
Aroclor-1260	(M)	15.603	15.600	0.003	546066	2500.081	2500.081
	(2)	17.433	17.430	0.003	523044	2493.337	2493.337
	(3)	17.563	17.563	0.000	387217	2508.621	2508.621
	(4)	17.840	17.833	0.007	229644	2505.679	2505.679
	(5)	19.107	19.103	0.003	355741	2507.039	2507.039
	(6)	21.270	21.263	0.007	300813	2507.949	2507.949

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
(7)	21.633	21.630	0.003	483389	2503.016	2503.016
(8)	23.693	23.690	0.003	304816	2510.339	2510.339

Average of peak concentrations: 2500.00

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Jul01/07-04-01/04jul01a.b/Nr608.m
Sample Info : 1016/1260-1500a
Lab ID : 1016/1260-1500a
Inj Date : 04-JUL-2001 15:16
Operator : AB *AB 07/10/01*
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/L)
Aroclor-1016	(M)	6.043	6.047	0.003	122239	1480.568	1480.568
	(2)	7.273	7.277	0.003	257984	1472.030	1472.030
	(3)	8.450	8.453	0.003	501953	1465.234	1465.234
	(4)	9.013	9.017	0.003	191189	1476.463	1476.463
	(5)	9.500	9.500	0.000	240049	1469.380	1469.380
	(6)	9.707	9.707	0.000	109865	1468.278	1468.278
	(7)	10.733	10.733	0.000	171449	1466.520	1466.520
	(8)	11.203	11.203	0.000	97180	1504.688	1504.688
Average of peak concentrations:						1500.00	
Aroclor-1260	(M)	15.600	15.600	0.000	351438	1512.133	1512.133
	(2)	17.433	17.430	0.003	323548	1541.926	1541.926
	(3)	17.563	17.563	0.000	248197	1439.439	1439.439
	(4)	17.840	17.833	0.007	143802	1476.074	1476.074
	(5)	19.107	19.103	0.003	222838	1464.960	1464.960
	(6)	21.270	21.263	0.007	183802	1435.854	1435.854

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
(7)	21.633	21.630	0.003	293703	1490.211	1490.211
(8)	23.697	23.690	0.007	177309	1407.241	1407.241

Average of peak concentrations: 1500.00

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/nr023477.d
 Method: /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m

Sample Information: 1016/1260-1000a
 Injection Date: 01-AUG-2001 07:40

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	6.030	1000	892.83	10.72
Aroclor-1016	2	7.260	1000	974.45	2.55
Aroclor-1016	3	8.440	1000	899.18	10.08
Aroclor-1016	4	9.000	1000	881.33	11.87
Aroclor-1016	5	9.487	1000	921.73	7.83
Aroclor-1016	6	9.690	1000	975.14	2.49
Aroclor-1016	7	10.713	1000	922.60	7.74
Aroclor-1016	8	11.183	1000	952.94	4.71

Aroclor-1260	1	15.577	1000	1041.86	4.19
Aroclor-1260	2	17.403	1000	838.75	16.12<-
Aroclor-1260	3	17.533	1000	1300.84	30.08<-
Aroclor-1260	4	17.810	1000	1058.73	5.87
Aroclor-1260	5	19.073	1000	1032.61	3.26
Aroclor-1260	6	21.233	1000	1053.28	5.33
Aroclor-1260	7	21.600	1000	1001.47	0.15
Aroclor-1260	8	23.660	1000	1041.92	4.19

sp 8.01-07

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGC6.1

Midpoint Calibration File: /chem1/PESTGC6.1/608/rear/Jul01/07-04-01/04jul01a.b/nr022935.d

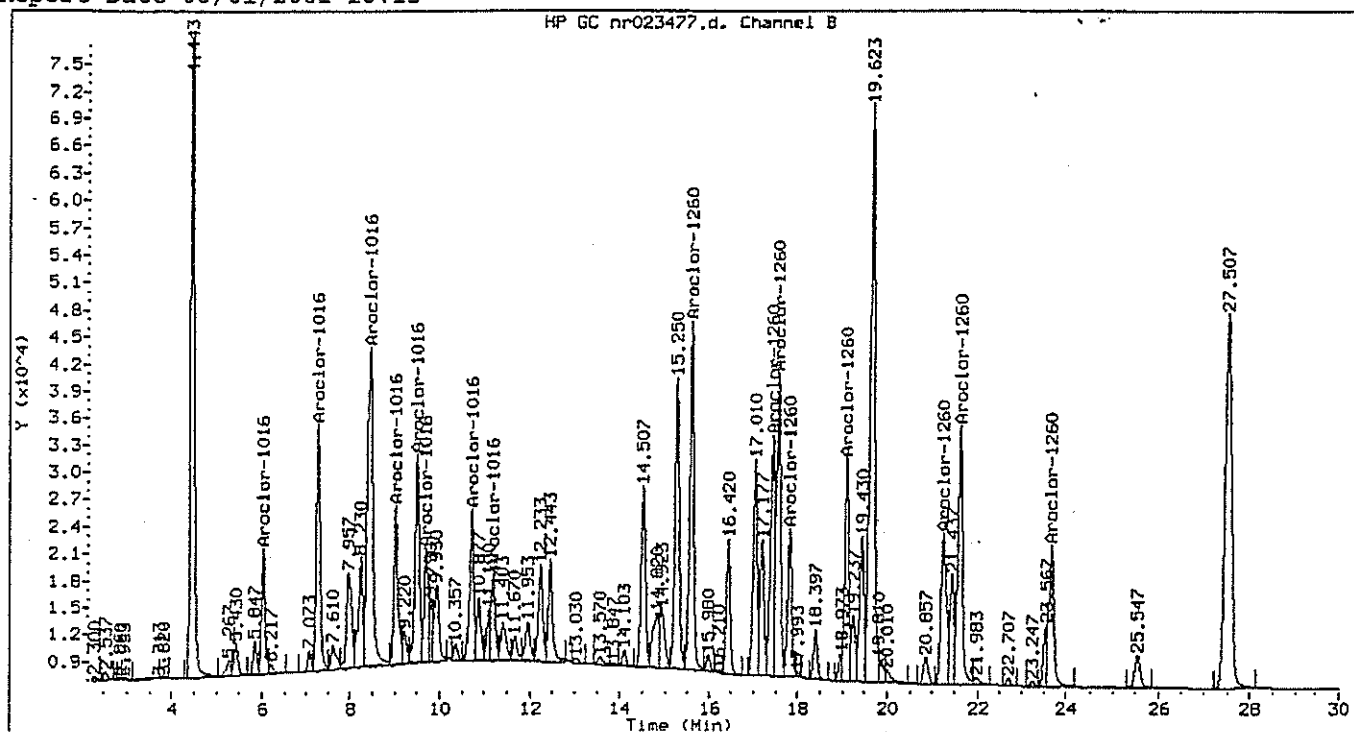
Injection Date: 04-JUL-2001 11:17

Continuing Calibration File: /chem1/PESTGC6.1/608/rear/Aug01/08-01-01/01aug01a.b/nr023477.d

Injection Date: 01-AUG-2001 07:40

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	6.047	{ 5.977 - 6.117 }	6.030	
	7.277	{ 7.207 - 7.347 }	7.260	
	8.453	{ 8.383 - 8.523 }	8.440	
	9.017	{ 8.947 - 9.087 }	9.000	
	9.500	{ 9.430 - 9.570 }	9.487	
	9.707	{ 9.637 - 9.777 }	9.690	
	10.733	{ 10.663 - 10.803 }	10.713	
	11.203	{ 11.133 - 11.273 }	11.183	

Aroclor-1260	15.600	{ 15.530 - 15.670 }	15.577	
	17.430	{ 17.360 - 17.500 }	17.403	
	17.563	{ 17.493 - 17.633 }	17.533	
	17.833	{ 17.763 - 17.903 }	17.810	
	19.103	{ 19.033 - 19.173 }	19.073	
	21.263	{ 21.193 - 21.333 }	21.233	
	21.630	{ 21.560 - 21.700 }	21.600	
	23.690	{ 23.620 - 23.760 }	23.660	



Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 01-AUG-2001 07:40
Operator : SP SP 8-01-01
Cpnd Sublist: AR16600

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aroclor-1016	(M)	6.030	6.030	0.000	78218	892.827
(2)	7.260	7.260	0.000	179811	974.453	974.453
(3)	8.440	8.440	0.000	323342	899.179	899.179
(4)	9.000	9.000	0.000	120680	881.332	881.332
(5)	9.487	9.487	0.000	157839	921.726	921.726
(6)	9.690	9.690	0.000	77717	975.143	975.143
(7)	10.713	10.713	0.000	113314	922.604	922.604
(8)	11.183	11.183	0.000	63320	952.936	952.936

Average of peak concentrations:

930.00

Aroclor-1260	(M)	15.577	15.577	0.000	250517	1041.855
(2)	17.403	17.403	0.000	177384	838.755	838.755
(3)	17.533	17.533	0.000	228148	1300.842	1300.842
(4)	17.810	17.810	0.000	106194	1058.730	1058.730
(5)	19.073	19.073	0.000	162525	1032.614	1032.614
(6)	21.233	21.233	0.000	138364	1053.276	1053.276

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
(7)	21.600	21.600	0.000	199756	1001.474	1001.474
(8)	23.660	23.660	0.000	133026	1041.918	1041.918

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC6.i Column ID: DB-608

Primary Column

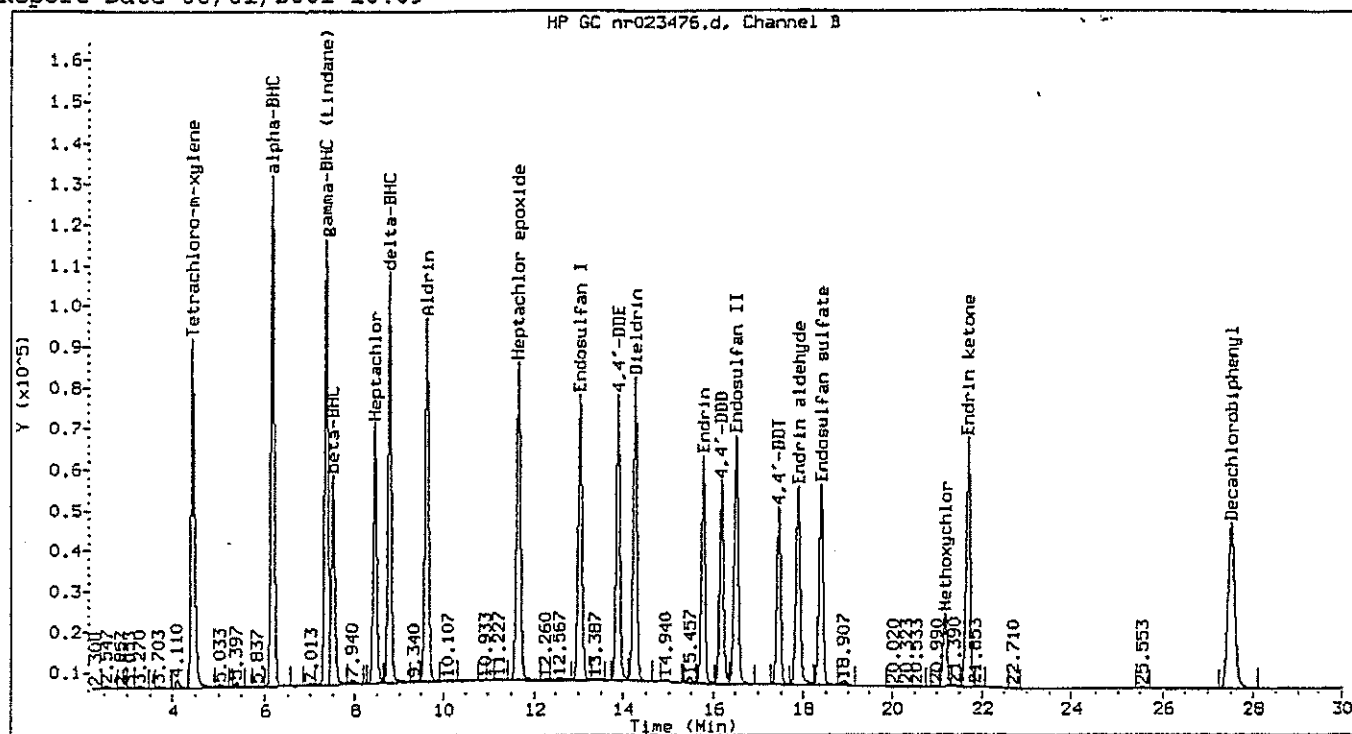
Calibration Files:

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 /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/nr023484.d

Compound	Level 1	Level 2	Level 3	Level 4	Level 5	Coefficients			%RSD or R ²
						a0	a1	a2	
Aldrin	4919.50	5436.98	5320.86	5550.78	5329.99		5311.62		4.48587
alpha-BHC	5377.00	6548.66	6389.20	6630.64	6355.04		6260.11		8.09068
beta-BHC	3351.50	3079.56	2903.36	2918.45	2748.81		3000.34		7.61794
delta-BHC	4472.00	5348.20	5325.66	5569.44	5371.61		5217.38		8.20016
gamma-BHC (Lindane)	5235.50	5856.44	5728.72	5868.21	5525.58		5642.89		4.71760
4,4'-DDD	2886.00	2937.76	2986.26	3284.96	3252.80		3069.56		6.05065
4,4'-DDE	4523.50	4152.54	4130.59	4398.96	4312.19		4303.56		3.85818
4,4'-DDT	2435.75	2448.48	2527.18	3047.38	3151.80	4.39914	0.00035	-2.035e-11	0.99908 *
Dieldrin	4901.50	4420.60	4540.72	4782.99	4655.91		4660.34		4.08549
Endosulfan I	4519.25	4504.14	4322.31	4447.34	4274.14		4413.44		2.48931
Endosulfan II	4392.00	3883.58	3844.08	3957.86	3826.25		3980.75		5.91330
Endosulfan sulfate	2986.50	3051.88	3091.34	3308.98	3271.03		3141.95		4.48413
Endrin	3928.00	3319.56	3401.00	3657.77	3642.48		3589.76		6.68640
Endrin aldehyde	3327.25	3318.14	3188.66	3272.19	3157.45		3252.74		2.35105
Endrin ketone	3705.25	3936.10	3894.86	4070.76	3962.12		3913.82		3.41177
Heptachlor	4792.75	5145.26	3711.67	5111.87	4924.34	4.73516	0.00020	1.1975e-12	0.99664 *
Heptachlor epoxide	5393.00	4962.32	4781.46	4844.20	4647.90		4925.78		5.78080
Methoxychlor	931.50	1158.48	1133.20	1387.75	1445.30	4.29917	0.00076	-1.099e-10	0.99904 *
Tetrachloro-m-xylene	4799.20	4959.78	4555.97	4640.05	4590.20		4709.04		3.57414
Decachlorobiphenyl	5600.10	4723.16	4291.88	4322.19	4220.84	-1.44284	0.00022	1.963e-11	0.99954 *

Comments:

- * = %RSD exceeded maximum upper limit. Non-linear curve used for quantitation.
- * = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : PEST MIX-100a
Lab ID : PEST MIX-100a
Inj Date : 01-AUG-2001 07:08
Operator : SP *SP 8-01-01*
Cpnd Sublist: SCpestRANGE

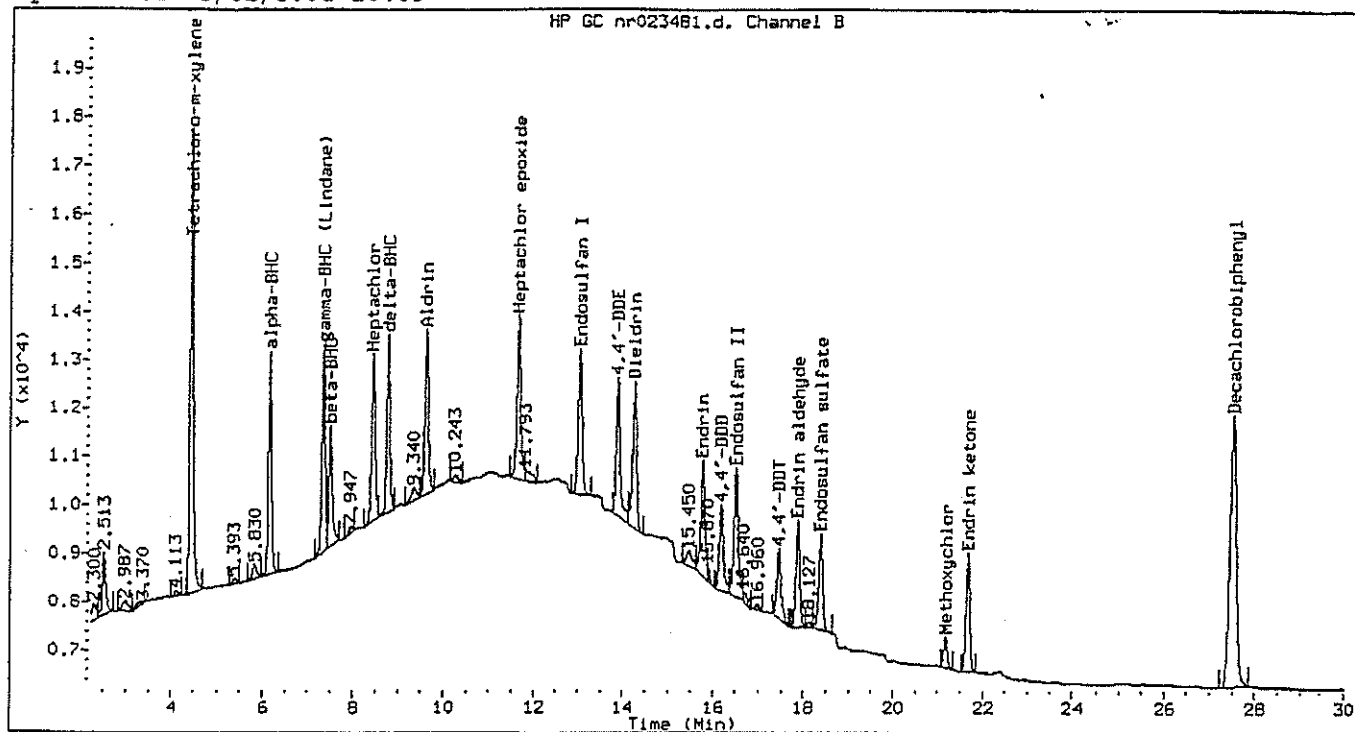
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	9.610	9.610	0.000	532086	100.174	100.174
alpha-BHC	6.163	6.163	0.000	638920	102.062	102.062
beta-BHC	7.500	7.500	0.000	290336	96.768	96.768
delta-BHC	8.760	8.760	0.000	532566	102.075	102.075
gamma-BHC (Lindane)	7.347	7.347	0.000	572872	101.521	101.521
4,4'-DDD	16.173	16.173	0.000	298626	97.286	97.286
4,4'-DDE	13.873	13.873	0.000	413059	95.981	95.981
4,4'-DDT	17.433	17.433	0.000	252718	90.497	90.497
Dieldrin	14.253	14.253	0.000	454072	97.433	97.433

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
Endosulfan I	13.033	13.033	0.000	432231	97.935	97.935
Endosulfan II	16.497	16.497	0.000	384408	96.567	96.567
Endosulfan sulfate	18.383	18.383	0.000	309134	98.389	98.389
Endrin	15.753	15.753	0.000	340100	94.742	94.742
Endrin aldehyde	17.870	17.870	0.000	318866	98.030	98.030
Endrin ketone (M)	21.677	21.677	0.000	389486	99.516	99.516
Heptachlor	8.437	8.437	0.000	371167	78.168	78.168
Heptachlor epoxide	11.647	11.647	0.000	478146	97.070	97.070
Methoxychlor (M)	21.180	21.180	0.000	113320	89.444	89.444
Tetrachloro-m-xylene	4.443	4.443	0.000	455597	96.749	96.749
Decachlorobiphenyl	27.510	27.510	0.000	429188	97.486	97.486
-----	-----	-----	-----	-----	-----	-----

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : PEST MIX-4a
Lab ID : PEST MIX-4a
Inj Date : 01-AUG-2001 09:50
Operator : SP
Cpnd Sublist: SCpestRANGE

Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_1

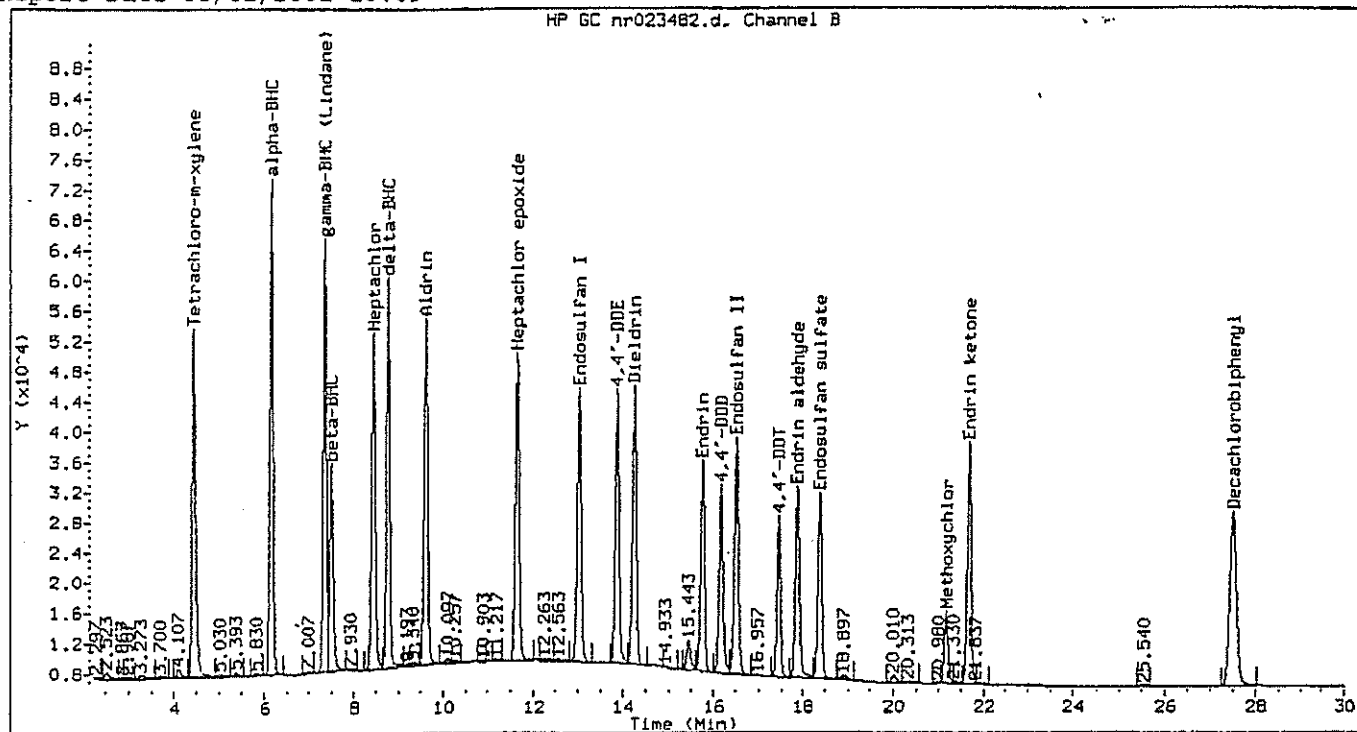
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	9.603	9.610	0.007	19678	3.705	3.705
alpha-BHC	6.157	6.163	0.007	21508	3.436	3.436
beta-BHC	7.497	7.500	0.003	13406	4.468	4.468
delta-BHC	8.753	8.760	0.007	17888	3.429	3.429
gamma-BHC (Lindane)	7.340	7.347	0.007	20942	3.711	3.711
4,4'-DDD	16.167	16.173	0.007	11544	3.761	3.761
4,4'-DDE	13.863	13.873	0.010	18094	4.204	4.204
4,4'-DDT	17.427	17.433	0.007	9743	7.767	7.767
Dieldrin	14.243	14.253	0.010	19606	4.207	4.207

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/L)
Endosulfan I		13.023	13.033	0.010	18077	4.096	4.096
Endosulfan II	(M)	16.490	16.497	0.007	17568	4.413	4.413
Endosulfan sulfate		18.373	18.383	0.010	11946	3.802	3.802
Endrin	(M)	15.747	15.753	0.007	15712	4.377	4.377
Endrin aldehyde		17.863	17.870	0.007	13309	4.092	4.092
Endrin ketone		21.670	21.677	0.007	14821	3.787	3.787
Heptachlor		8.430	8.437	0.007	19171	8.520	8.520
Heptachlor epoxide	(M)	11.640	11.647	0.007	21572	4.379	4.379
Methoxychlor		21.177	21.180	0.003	3726	7.144	7.144
Tetrachloro-m-xylene		4.440	4.443	0.003	47992	10.191	10.191
Decachlorobiphenyl		27.500	27.510	0.010	56001	11.055	11.055

COMMENTS:

M - Compound response manually integrated.

Report Date 08/01/2001 16:09



Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
 Sample Info : PEST MIX-50a
 Lab ID : PEST MIX-50a
 Inj Date : 01-AUG-2001 10:23
 Operator : SP 5P 08-01-01
 Cpnd Sublist: SCpestRANGE

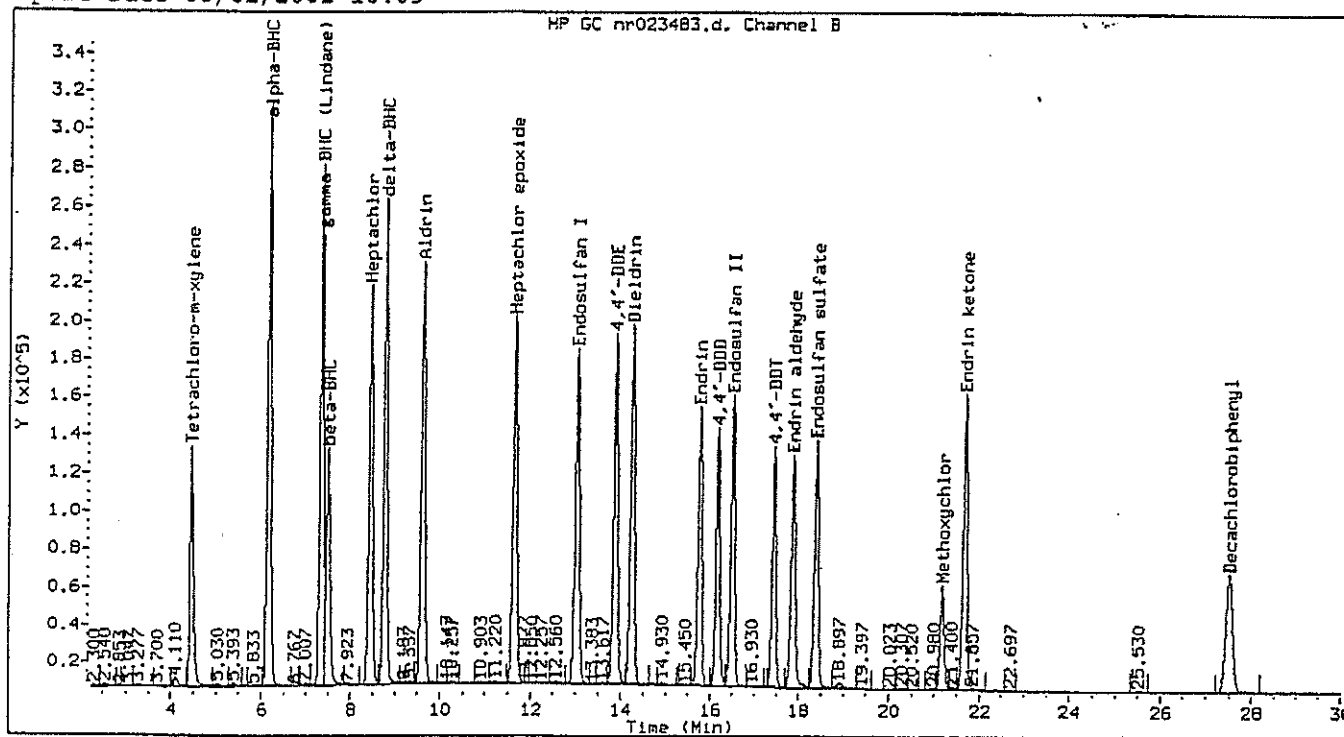
Inst ID : PESTGC6.i
 Dil Factor : 1
 Sample Matrix : WATER
 Sample Type: CALIB_2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	9.603	9.610	0.007	271849	51.180	51.180
alpha-BHC	6.160	6.163	0.003	327433	52.305	52.305
beta-BHC	7.497	7.500	0.003	153978	51.320	51.320
delta-BHC	8.753	8.760	0.007	267410	51.254	51.254
gamma-BHC (Lindane)	7.343	7.347	0.003	292822	51.892	51.892
4,4'-DDD	16.167	16.173	0.007	146888	47.853	47.853
4,4'-DDE	13.867	13.873	0.007	207627	48.245	48.245
4,4'-DDT	17.427	17.433	0.007	122424	46.432	46.432
Dieldrin	14.243	14.253	0.010	221030	47.428	47.428

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
Endosulfan I	13.023	13.033	0.010	225207	51.028	51.028
Endosulfan II	16.490	16.497	0.007	194179	48.779	48.779
Endosulfan sulfate	18.377	18.383	0.007	152594	48.567	48.567
Endrin	15.747	15.753	0.007	165978	46.236	46.236
Endrin aldehyde	17.860	17.870	0.010	165907	51.005	51.005
Endrin ketone (M)	21.670	21.677	0.007	196805	50.285	50.285
Heptachlor	8.433	8.437	0.003	257263	55.598	55.598
Heptachlor epoxide	11.640	11.647	0.007	248116	50.371	50.371
Methoxychlor (M)	21.173	21.180	0.007	57924	48.174	48.174
Tetrachloro-m-xylene	4.440	4.443	0.003	247989	52.662	52.662
Decachlorobiphenyl	27.503	27.510	0.007	236158	52.097	52.097

COMMENTS:

M - Compound response manually integrated.



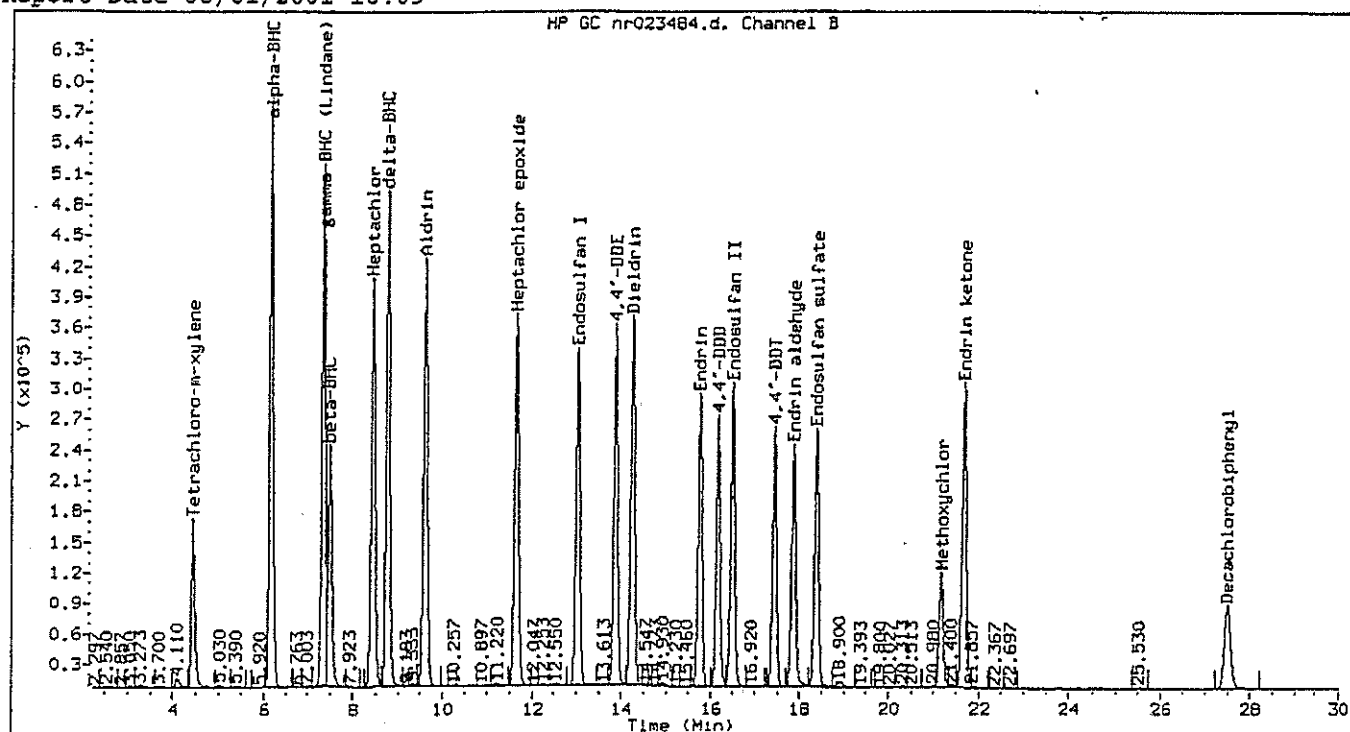
Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : PEST MIX-250a
Lab ID : PEST MIX-250a
Inj Date : 01-AUG-2001 10:55
Operator : SP
Cpnd Sublist: SCpestRANGE
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	9.603	9.610	0.007	1387696	261.257	261.257
alpha-BHC	6.157	6.163	0.007	1657659	264.797	264.797
beta-BHC	7.493	7.500	0.007	729612	243.177	243.177
delta-BHC	8.753	8.760	0.007	1392361	266.870	266.870
gamma-BHC (Lindane)	7.340	7.347	0.007	1467053	259.983	259.983
4,4'-DDD	16.163	16.173	0.010	821240	267.544	267.544
4,4'-DDE	13.863	13.873	0.010	1099741	255.542	255.542
4,4'-DDT	17.427	17.433	0.007	761844	256.055	256.055
Dieldrin	14.243	14.253	0.010	1195748	256.579	256.579

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
Endosulfan I	13.023	13.033	0.010	1111834	251.920	251.920
Endosulfan II	16.487	16.497	0.010	989464	248.562	248.562
Endosulfan sulfate	18.377	18.383	0.007	827244	263.290	263.290
Endrin	15.747	15.753	0.007	914443	254.736	254.736
Endrin aldehyde	17.860	17.870	0.010	818047	251.495	251.495
Endrin ketone (M)	21.670	21.677	0.007	1017691	260.025	260.025
Heptachlor	8.430	8.437	0.007	1277967	258.958	258.958
Heptachlor epoxide (M)	11.640	11.647	0.007	1211051	245.860	245.860
Methoxychlor (M)	21.170	21.180	0.010	346938	256.067	256.067
Tetrachloro-m-xylene	4.437	4.443	0.007	696009	147.803	147.803
Decachlorobiphenyl	27.493	27.510	0.017	648329	150.788	150.788
-----	-----	-----	-----	-----	-----	-----

COMMENTS:

M - Compound response manually integrated.



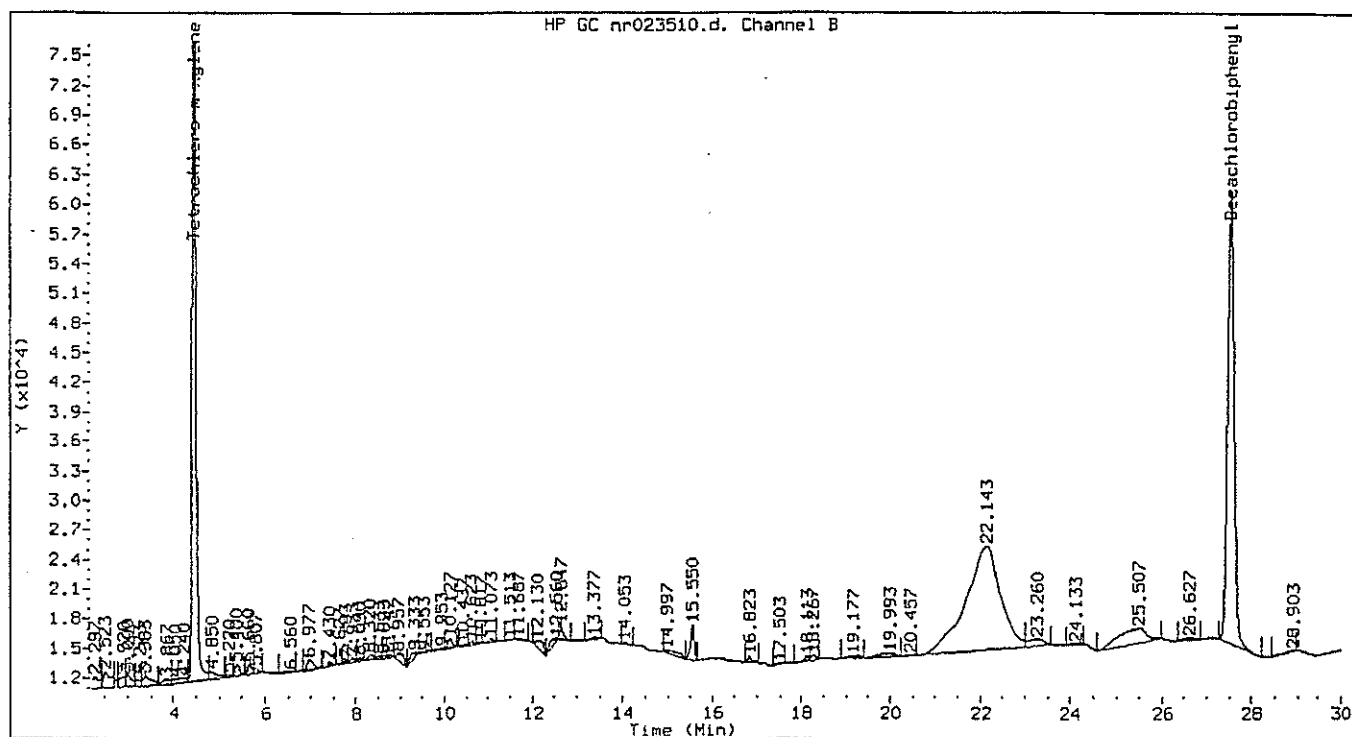
Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : PEST MIX-500a
Lab ID : PEST MIX-500a
Inj Date : 01-AUG-2001 11:27
Operator : SP SP 8.01.01
Cpnd Sublist: SCpeSTRANGE
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Aldrin	9.603	9.610	0.007	2664993	501.729	501.729
alpha-BHC	6.157	6.163	0.007	3177518	507.582	507.582
beta-BHC	7.490	7.500	0.010	1374407	458.084	458.084
delta-BHC	8.750	8.760	0.010	2685806	514.780	514.780
gamma-BHC (Lindane)	7.340	7.347	0.007	2762790	489.605	489.605
4,4'-DDD	16.157	16.173	0.017	1626401	529.849	529.849
4,4'-DDE	13.860	13.873	0.013	2156097	501.003	501.003
4,4'-DDT	17.423	17.433	0.010	1575898	498.851	498.851
Dieldrin	(M) 14.243	14.253	0.010	2327955	499.524	499.524

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
-----	-----	-----	-----	-----	-----	-----
Endosulfan I	13.023	13.033	0.010	2137069	484.219	484.219
Endosulfan II	16.483	16.497	0.013	1913126	480.594	480.594
Endosulfan sulfate	18.370	18.383	0.013	1635516	520.542	520.542
Endrin	15.743	15.753	0.010	1821241	507.343	507.343
Endrin aldehyde	17.857	17.870	0.013	1578726	485.353	485.353
Endrin ketone (M)	21.667	21.677	0.010	1981059	506.170	506.170
Heptachlor	8.430	8.437	0.007	2462171	498.021	498.021
Heptachlor epoxide	11.637	11.647	0.010	2323950	471.794	471.794
Methoxychlor	21.167	21.180	0.013	722651	498.873	498.873
Tetrachloro-m-xylene	4.437	4.443	0.007	918040	194.953	194.953
Decachlorobiphenyl	27.490	27.510	0.020	844167	200.016	200.016

COMMENTS:

M - Compound response manually integrated.

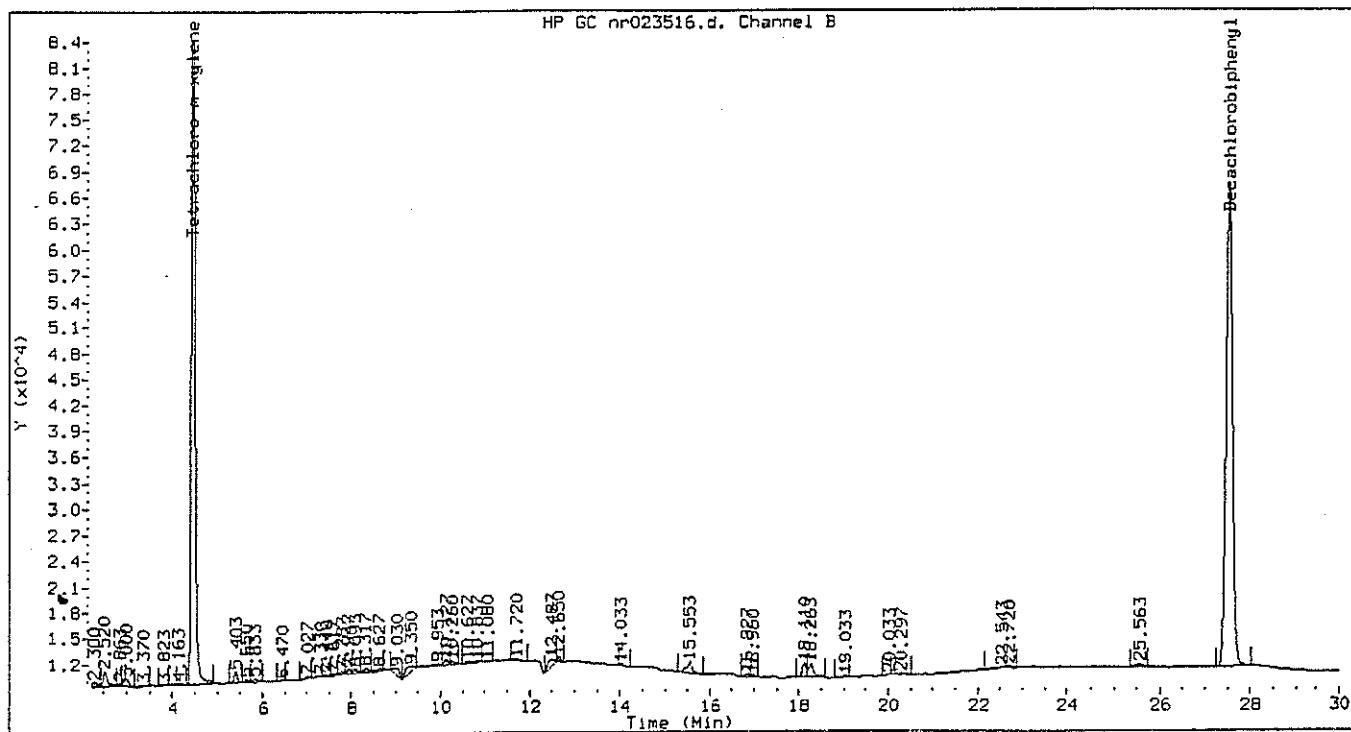


Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : WP201A;1000;5
Lab ID : WP201A
Inj Date : 02-AUG-2001 01:31
Operator : SP SP 8-24-01
Cpnd Sublist: PCB+
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: BLANK

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/L)
Tetrachloro-m-xylene	(M)	4.443	4.443	0.000	461177	97.934	0.490
Decachlorobiphenyl	(M)	27.517	27.510	0.007	461491	105.225	0.526

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC6.i/608/rear/Aug01/08-01-01/01aug01a.b/Nr608.m
Sample Info : 289207;990;5
Lab ID : 289207
Inj Date : 02-AUG-2001 04:45
Operator : SP SP 8.14.01
Cpnd Sublist: PCB+
Inst ID : PESTGC6.i
Dil Factor : 1
Sample Matrix : WATER
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
Tetrachloro-m-xylene	4.447	4.443	0.003	547297	116.223	0.587
Decachlorobiphenyl	27.520	27.510	0.010	561748	129.503	0.654

Method 8082 (PCBs) Results Summary

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample ID: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033563.d
Rear File ID: pr033563.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		82	R
Aroclor-1221	ND		82	R
Aroclor-1232	ND		82	R
Aroclor-1242	ND		82	R
Aroclor-1248	ND		82	R
Aroclor-1254	ND		82	R
Aroclor-1260	ND		82	R
Aroclor-1262	ND		82	R
Aroclor-1268	ND		82	R

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample ID: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033564.d
Rear File ID: pr033564.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
			<u>Units: ug/kg</u>	
Aroclor-1016	ND		80	R
Aroclor-1221	ND		80	R
Aroclor-1232	ND		80	R
Aroclor-1242	ND		80	R
Aroclor-1248	ND		80	R
Aroclor-1254	ND		80	R
Aroclor-1260	ND		80	R
Aroclor-1262	ND		80	R
Aroclor-1268	ND		80	R

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample ID: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033565.d
Rear File ID: pr033565.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 18

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>	<u>Column</u>
Aroclor-1016	ND	81	R
Aroclor-1221	ND	81	R
Aroclor-1232	ND	81	R
Aroclor-1242	ND	81	R
Aroclor-1248	ND	81	R
Aroclor-1254	ND	81	R
Aroclor-1260	ND	81	R
Aroclor-1262	ND	81	R
Aroclor-1268	ND	81	R

Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample ID: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033566.d
Rear File ID: pr033566.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND		80	
Aroclor-1221	ND		80	R
Aroclor-1232	ND		80	R
Aroclor-1242	ND		80	R
Aroclor-1248	ND		80	R
Aroclor-1254	ND		80	R
Aroclor-1260	ND		80	R
Aroclor-1262	ND		80	R
Aroclor-1268	ND		80	R

Client ID: SB-7
Site: NJDOT Credit Union

Lab Sample ID: 289214
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033567.d
Rear File ID: pr033567.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 12

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016		ND	76	R
Aroclor-1221		ND	76	R
Aroclor-1232		ND	76	R
Aroclor-1242		ND	76	R
Aroclor-1248	140	76	76	F
Aroclor-1254		ND	76	R
Aroclor-1260		ND	76	R
Aroclor-1262		ND	76	R
Aroclor-1268		ND	76	R

Client ID: SB-8
Site: NJDOT Credit Union

Lab Sample ID: 289215
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033568.d
Rear File ID: pr033568.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 16

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	Units: ug/kg (Dry Weight)		Limit	
			Units: ug/kg	Column
Aroclor-1016	ND		79	R
Aroclor-1221	ND		79	R
Aroclor-1232	ND		79	R
Aroclor-1242	ND		79	R
Aroclor-1248	ND		79	R
Aroclor-1254	ND		79	R
Aroclor-1260	ND		79	R
Aroclor-1262	ND		79	R
Aroclor-1268	ND		79	R

Client ID: SB-9
Site: NJDOT Credit Union

Lab Sample ID: 289216
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033569.d
Rear File ID: pr033569.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 17

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	Analytical Results Units: ug/kg (Dry Weight)	Quantitation	
		Limit Units: ug/kg	Column
Aroclor-1016	ND	80	R
Aroclor-1221	ND	80	R
Aroclor-1232	ND	80	R
Aroclor-1242	ND	80	R
Aroclor-1248	ND	80	R
Aroclor-1254	ND	80	R
Aroclor-1260	ND	80	R
Aroclor-1262	ND	80	R
Aroclor-1268	ND	80	R

QA Summary

GC ORGANICS SURROGATE RECOVERY

Matrix: SOIL

Level: LOW

Lab Job No: M838

	LABORATORY SAMPLE NO.	DCB 1 %REC #	DCB 2 %REC #	TOT OUT
	=====	=====	=====	=====
01	SP204A	102	102	0
02	289210	108	108	0
03	289211	104	104	0
04	289212	103	103	0
05	289213	114	114	0
06	289214	118	113	0
07	289215	107	106	0
08	289216	109	109	0
09	289211MS	104	105	0
10	289211MSD	103	106	0
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ADVISORY
QC LIMITS
(51-153)

S1 (DCB) = Decachlorobiphenyl

Column to be used to flag recovery values

* Values outside of advisory QC limits

D Surrogate diluted out

R Surrogate removed during H2SO4 cleanup procedure

** Not detected due to coeluting interference

GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
METHOD 8082

Matrix: SOIL

Matrix Spike - Lab Sample No.: 289211

Level: LOW

MS Sample from Lab Job No: M838

QA Batch: 7771

Compound	SPIKE ADDED (ug/kg)	SAMPLE CONCENTRATION (ug/kg)	MS CONCENTRATION (ug/kg)	MS % REC #	QC. LIMITS REC.
=====	=====	=====	=====	=====	=====
Aroclor-1016	400	0.00	460	115	69-144
Aroclor-1260	400	0.00	440	110	66-148

Compound	SPIKE ADDED (ug/kg)	MSD CONCENTRATION (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
=====	=====	=====	=====	=====	=====	=====
Aroclor-1016	400	460	115	0	13	69-144
Aroclor-1260	400	440	110	0	21	66-148

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

* Values outside of QC limits

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

COMMENTS:

GC ORGANICS METHOD BLANK SUMMARY

LAB SAMPLE NO.

SP204A

Matrix: SOIL

Date Analyzed: 07/27/01

Level: LOW

Time Analyzed: 1237

Instrument ID: PESTGC5

Lab File ID: PR033554

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SB-3	289210	pr033563.d	07/27/01
02	SB-4	289211	pr033564.d	07/27/01
03	SB-5	289212	pr033565.d	07/27/01
04	SB-6	289213	pr033566.d	07/27/01
05	SB-7	289214	pr033567.d	07/27/01
06	SB-8	289215	pr033568.d	07/27/01
07	SB-9	289216	pr033569.d	07/27/01
08	SB-4MS	289211MS	pr033599.d	07/29/01
09	SB-4MSD	289211MSD	pr033600.d	07/29/01
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

Client ID: SP204A
Site:

Lab Sample ID: SP204A
Lab Job No: M838

Date Sampled: _____
Date Received: _____
Date Extracted: 07/23/01
Date Analyzed: 07/27/01
GC Front Column: DB-5
GC Rear Column: DB-608
Instrument ID: PESTGC5.i
Front File ID: pf033554.d
Rear File ID: pr033554.d

Matrix: SOIL
Level: LOW
Sample Weight: 15 g
Extract Final Volume: 10.0 ml
Dilution Factor: 1.0
% Moisture: 0

ORGANOCHLORINE PCBs - GC/ECD
METHOD 8082

<u>Parameter</u>	<u>Analytical Results</u>		<u>Quantitation</u>	
	<u>Units: ug/kg</u> <u>(Dry Weight)</u>		<u>Limit</u>	<u>Column</u>
Aroclor-1016	ND	67		R
Aroclor-1221	ND	67		R
Aroclor-1232	ND	67		R
Aroclor-1242	ND	67		R
Aroclor-1248	ND	67		R
Aroclor-1254	ND	67		R
Aroclor-1260	ND	67		R
Aroclor-1262	ND	67		R
Aroclor-1268	ND	67		R

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b,
as of 09/05/2001 10:09)

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Dates of Analysis: 07/27/01 to 07/27/01

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 26.560

Lab Sample ID	Data File	Injection Time	RT	DLT RT
SP204A	pr033554.d	27-JUL-2001 12:37	26.557	0.003
289210	pr033563.d	27-JUL-2001 17:31	26.543	0.017
289211	pr033564.d	27-JUL-2001 18:03	26.537	0.023
289212	pr033565.d	27-JUL-2001 18:36	26.540	0.020
289213	pr033566.d	27-JUL-2001 19:08	26.540	0.020
289214	pr033567.d	27-JUL-2001 19:41	26.540	0.020
289215	pr033568.d	27-JUL-2001 20:13	26.543	0.017
289216	pr033569.d	27-JUL-2001 20:46	26.543	0.017

D = Surrogate diluted out.

Pesticide/PCB Retention Time Shift Summary

(for databatch - /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b,
as of 09/05/2001 10:09)

Instrument ID: PESTGC5.i Column ID: DB-608 Primary Column

Dates of Analysis: 07/29/01 to 07/29/01

Retention Time Shift Marker - Decachlorobiphenyl
QC Limit for RT Shift is 0.10 min

Absolute Surrogate RT From Cal. Standard Level 3: DCB = 26.557

Lab Sample ID	Data File	Injection Time	RT	DLT RT
289211MS	pr033599.d	29-JUL-2001 11:44	26.547	0.010
289211MSD	pr033600.d	29-JUL-2001 12:17	26.550	0.007

D = Surrogate diluted out.

Analytical Sequence

GC ORGANICS ANALYTICAL SEQUENCE SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608

Primary Column

	Lab Sample ID	Client Sample ID	Lab File ID	Sample Type	Inj. Date	Inj. Time
	=====	=====	=====	=====	=====	=====
1	1016/1260-100c		pr033458.d	CALIB_1	07/24/01	1931
2	1016/1260-500c		pr033459.d	CALIB_2	07/24/01	2004
3	1016/1260-1000c		pr033460.d	CALIB_3	07/24/01	2036
4	1016/1260-1500c		pr033461.d	CALIB_4	07/24/01	2109
5	1016/1260-2500c		pr033462.d	CALIB_5	07/24/01	2142
6	1221-1000c		pr033463.d	CALIB_3	07/24/01	2214
7	1232-1000c		pr033464.d	CALIB_3	07/24/01	2247
8	1242-1000c		pr033465.d	CALIB_3	07/24/01	2319
9	1248-1000c		pr033466.d	CALIB_3	07/24/01	2352
10	1254-1000c		pr033467.d	CALIB_3	07/25/01	0024
11	1262-1000c		pr033468.d	CALIB_3	07/25/01	0057
12	1268-1000c		pr033469.d	CALIB_3	07/25/01	0129
13	1016/1260-1000d		pr033552.d	CCALIB_3	07/27/01	1132
14	SP204A		pr033554.d	BLANK	07/27/01	1237
15	7771BS		pr033555.d	BS	07/27/01	1310
16	289210	SB-3	pr033563.d	SAMPLE	07/27/01	1731
17	289211	SB-4	pr033564.d	SAMPLE	07/27/01	1803
18	289212	SB-5	pr033565.d	SAMPLE	07/27/01	1836
19	289213	SB-6	pr033566.d	SAMPLE	07/27/01	1908
20	289214	SB-7	pr033567.d	SAMPLE	07/27/01	1941
21	289215	SB-8	pr033568.d	SAMPLE	07/27/01	2013
22	289216	SB-9	pr033569.d	SAMPLE	07/27/01	2046
23	1016/1260-1000e		pr033571.d	CCALIB_3	07/27/01	2220
24	1016/1260-1000a		pr033597.d	CCALIB_3	07/29/01	1038
25	289211MS	SB-4MS	pr033599.d	MS	07/29/01	1144
26	289211MSD	SB-4MSD	pr033600.d	MSD	07/29/01	1217
27	1016/1260-1000b		pr033611.d	CCALIB_3	07/29/01	1845

Raw Data

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-608

Primary Column

Calibration Files:

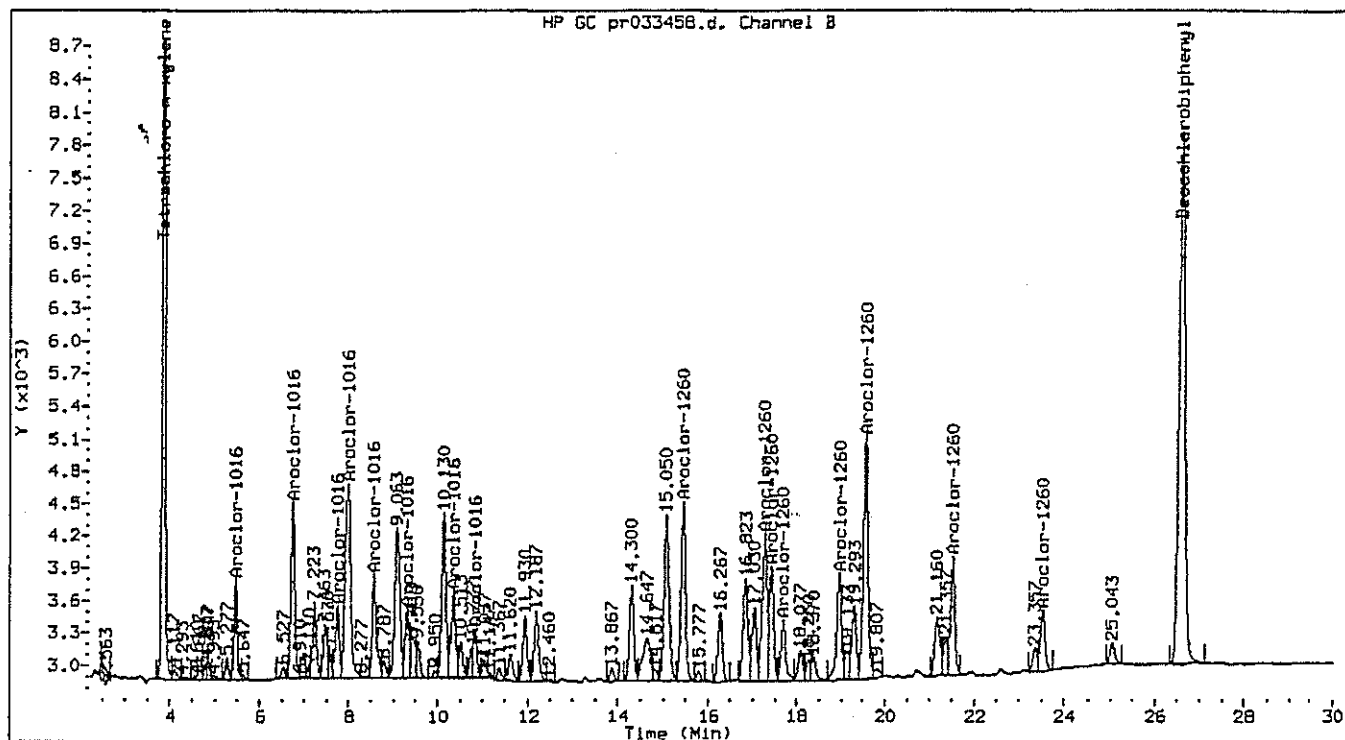
/chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033458.d
 /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033459.d
 /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033460.d
 /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033461.d
 /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033462.d

Compound	Level	Level					Coefficients			*RSD or R ²
		1	2	3	4	5	a0	a1	a2	
Aroclor-1016	1	45.47	42.75	40.19	39.24	36.38		40.80		8.49000
	2	97.12	90.45	82.46	79.13	71.19		84.07		11.95246
	3	41.10	42.40	40.28	39.61	36.11		39.90		5.91255
	4	153.08	159.24	153.56	153.31	143.12		152.46		3.81843
	5	63.48	64.17	61.49	60.69	56.44		61.25		4.97064
	6	40.67	39.95	36.91	35.81	32.65		37.20		8.75051
	7	54.42	56.65	53.83	52.94	48.54		53.27		5.59805
	8	26.91	31.56	30.48	31.29	27.81		29.61		7.14899
Aroclor-1260	1	114.76	109.87	92.85	95.47	87.80		100.15		11.55412
	2	102.78	103.21	81.81	94.46	88.71		94.19		9.76782
	3	73.46	69.78	68.60	60.84	56.28		65.79		10.68324
	4	44.42	41.31	38.08	37.69	35.02		39.30		9.23041
	5	74.16	72.33	69.61	65.53	60.97		68.52		7.77192
	6	163.36	162.53	155.03	149.91	140.97		154.36		6.03625
	7	76.59	82.23	75.91	76.82	72.22		76.76		4.66468
	8	39.58	42.63	44.39	38.53	36.13		40.25		8.16054
Tetrachloro-m-xylene		1574.84	1618.28	1898.01	1718.17	1670.09		1695.88		7.38209
Decachlorobiphenyl		1805.16	1709.20	1567.67	1518.00	1414.18		1602.84		9.67893

Comments:

* = *RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1016/1260-100c
Lab ID : 1016/1260-100c
Inj Date : 24-JUL-2001 19:31
Operator : SK 10/26/01
Cpnd Sublist: ARL6600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.467	5.457	0.010	4547	111.435
(2)		6.747	6.737	0.010	9712	115.523
(3)		7.740	7.730	0.010	4110	103.002
(4)		7.980	7.970	0.010	15308	100.405
(5)		8.560	8.547	0.013	6348	103.634
(6)		9.300	9.290	0.010	4067	109.334
(7)		10.350	10.337	0.013	5442	102.150
(8)		10.833	10.823	0.010	2691	90.881
Average of peak concentrations:					100.00	
Aroclor-1260	(M)	15.427	15.413	0.013	11476	114.589
(2)		17.253	17.240	0.013	10278	109.115
(3)		17.403	17.390	0.013	7346	111.657
(4)		17.680	17.667	0.013	4442	113.020
(5)		18.943	18.927	0.017	7416	108.234
(6)		19.543	19.527	0.017	16336	105.832

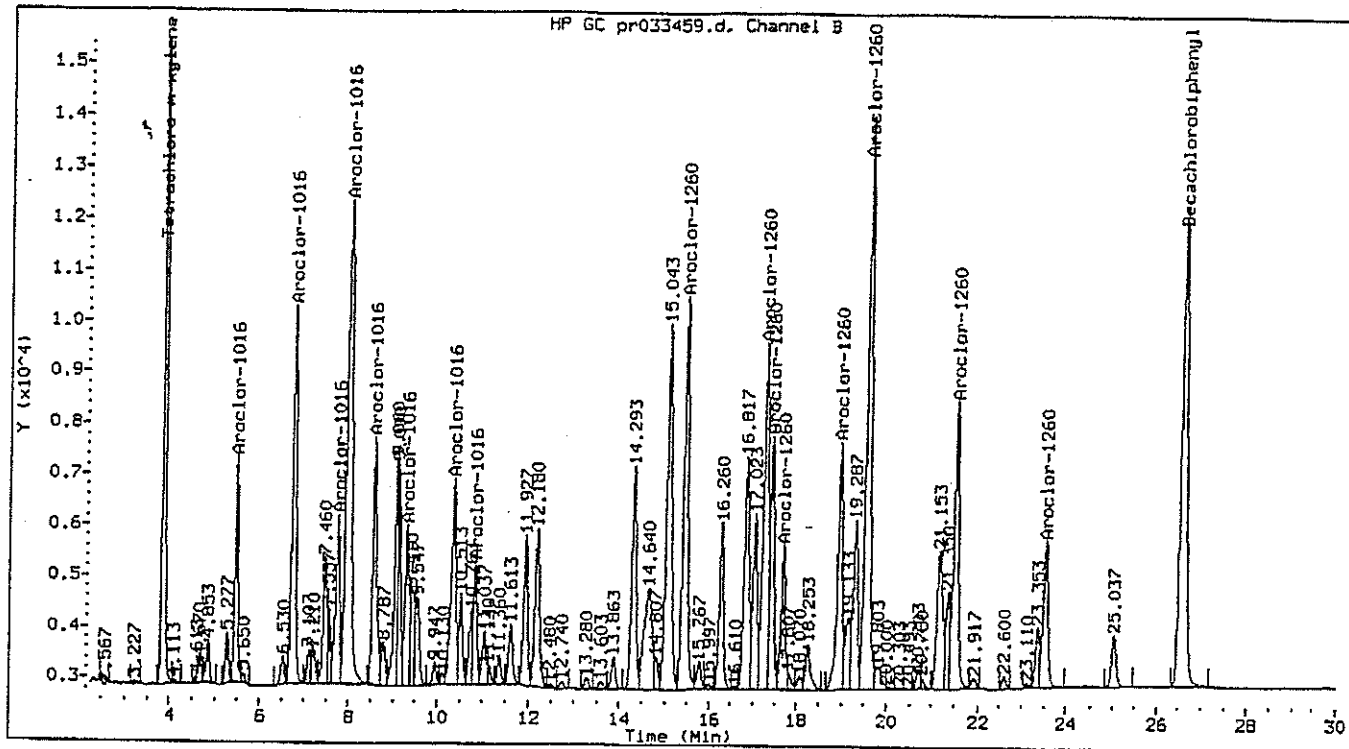
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	21.510	21.493	0.017	7659	99.785	99.785
(8)	23.523	23.510	0.013	3958	98.326	98.326

Average of peak concentrations: 110.00

Tetrachloro-m-xylene	(M)	3.837	3.830	0.007	39371	23.216	23.216
Decachlorobiphenyl	(M)	26.573	26.560	0.013	45129	28.156	28.156

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1016/1260-500c
Lab ID : 1016/1260-500c
Inj Date : 24-JUL-2001 20:04
Operator : SK 10726101
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M) 5.463	5.457	0.007	21374	523.822	523.822
(2)	6.743	6.737	0.007	45225	537.945	537.945
(3)	7.737	7.730	0.007	21200	531.300	531.300
(4)	7.977	7.970	0.007	79620	522.228	522.228
(5)	8.557	8.547	0.010	32087	523.836	523.836
(6)	9.300	9.290	0.010	19977	537.047	537.047
(7)	10.347	10.337	0.010	28325	531.681	531.681
(8)	10.830	10.823	0.007	15781	532.958	532.958

Average of peak concentrations:

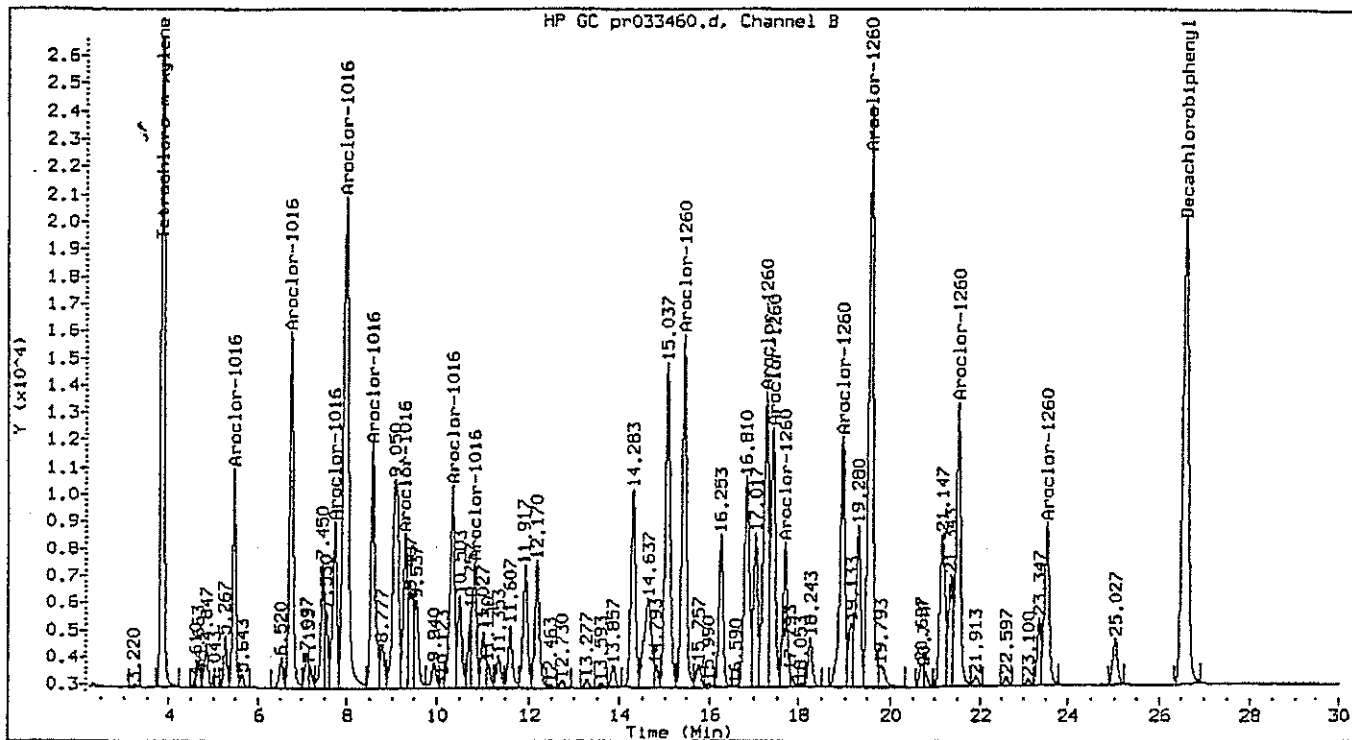
530.00

Aroclor-1260	(M) 15.420	15.413	0.007	54933	548.512	548.512
(2)	17.250	17.240	0.010	51606	547.870	547.870
(3)	17.400	17.390	0.010	34888	530.286	530.286
(4)	17.673	17.667	0.007	20653	525.483	525.483
(5)	18.933	18.927	0.007	36163	527.789	527.789
(6)	19.533	19.527	0.007	81263	526.457	526.457

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
----- (7)	21.500	21.493	0.007	41116	535.677	535.677
(8)	23.513	23.510	0.003	21314	529.487	529.487
Average of peak concentrations:						530.00
-----	-----	-----	-----	-----	-----	-----
Tetrachloro-m-xylene (M)	3.837	3.830	0.007	80914	47.712	47.712
-----	-----	-----	-----	-----	-----	-----
Decachlorobiphenyl (M)	26.567	26.560	0.007	85460	53.318	53.318
-----	-----	-----	-----	-----	-----	-----

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1016/1260-1000c
Lab ID : 1016/1260-1000c
Inj Date : 24-JUL-2001 20:36
Operator : SK *25/01*
Cpnd Sublist: ARI6600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
Aroclor-1016	(M)	5.457	5.457	0.000	40191	984.979	984.979
(2)		6.737	6.737	0.000	82462	980.874	980.874
(3)		7.730	7.730	0.000	40283	1009.545	1009.545
(4)		7.970	7.970	0.000	153565	1007.235	1007.235
(5)		8.547	8.547	0.000	61487	1003.805	1003.805
(6)		9.290	9.290	0.000	36912	992.315	992.315
(7)		10.337	10.337	0.000	53827	1010.371	1010.371
(8)		10.823	10.823	0.000	30480	1029.374	1029.374

Average of peak concentrations:

1000.00

Aroclor-1260	(M)	15.413	15.413	0.000	92848	927.097	927.097
(2)		17.240	17.240	0.000	81810	868.528	868.528
(3)		17.390	17.390	0.000	68601	1042.712	1042.712
(4)		17.667	17.667	0.000	38081	968.912	968.912
(5)		18.927	18.927	0.000	69607	1015.895	1015.895
(6)		19.527	19.527	0.000	155028	1004.339	1004.339

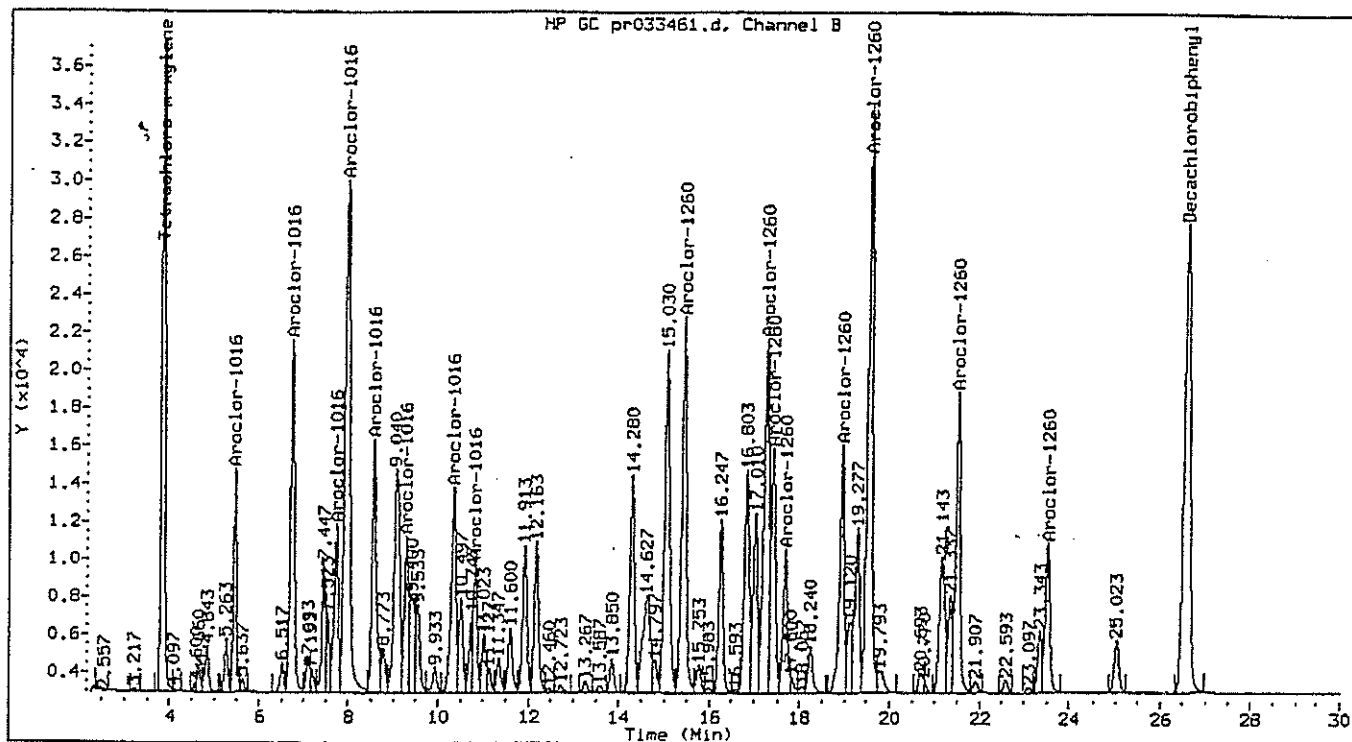
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
----- (7)	21.493	21.493	0.000	75910	988.988	988.988
(8)	23.510	23.510	0.000	44394	1102.845	1102.845

Average of peak concentrations: 990.00

Tetrachloro-m-xylene	3.830	3.830	0.000	189801	111.919	111.919
Decachlorobiphenyl	26.560	26.560	0.000	156767	97.806	97.806

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1016/1260-1500c
Lab ID : 1016/1260-1500c
Inj Date : 24-JUL-2001 21:09
Operator : SK
Cpnd Sublist: ARI6600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.453	5.457	0.003	58853	1442.337
(2)		6.730	6.737	0.007	118688	1411.777
(3)		7.723	7.730	0.007	59421	1489.169
(4)		7.967	7.970	0.003	229960	1508.310
(5)		8.543	8.547	0.003	91040	1486.273
(6)		9.293	9.290	0.007	53708	1443.846
(7)		10.333	10.337	0.003	79409	1490.564
(8)		10.817	10.823	0.007	46935	1585.094

Average of peak concentrations:

1500.00

Aroclor-1260	(M)	15.407	15.413	0.007	143208	1429.947
(2)		17.237	17.240	0.003	141691	1504.248
(3)		17.383	17.390	0.007	91259	1387.106
(4)		17.663	17.667	0.003	56531	1438.343
(5)		18.920	18.927	0.007	98288	1434.486
(6)		19.523	19.527	0.003	224861	1456.748

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	21.487	21.493	0.007	115231	1501.278	1501.278
(8)	23.503	23.510	0.007	57802	1435.930	1435.930

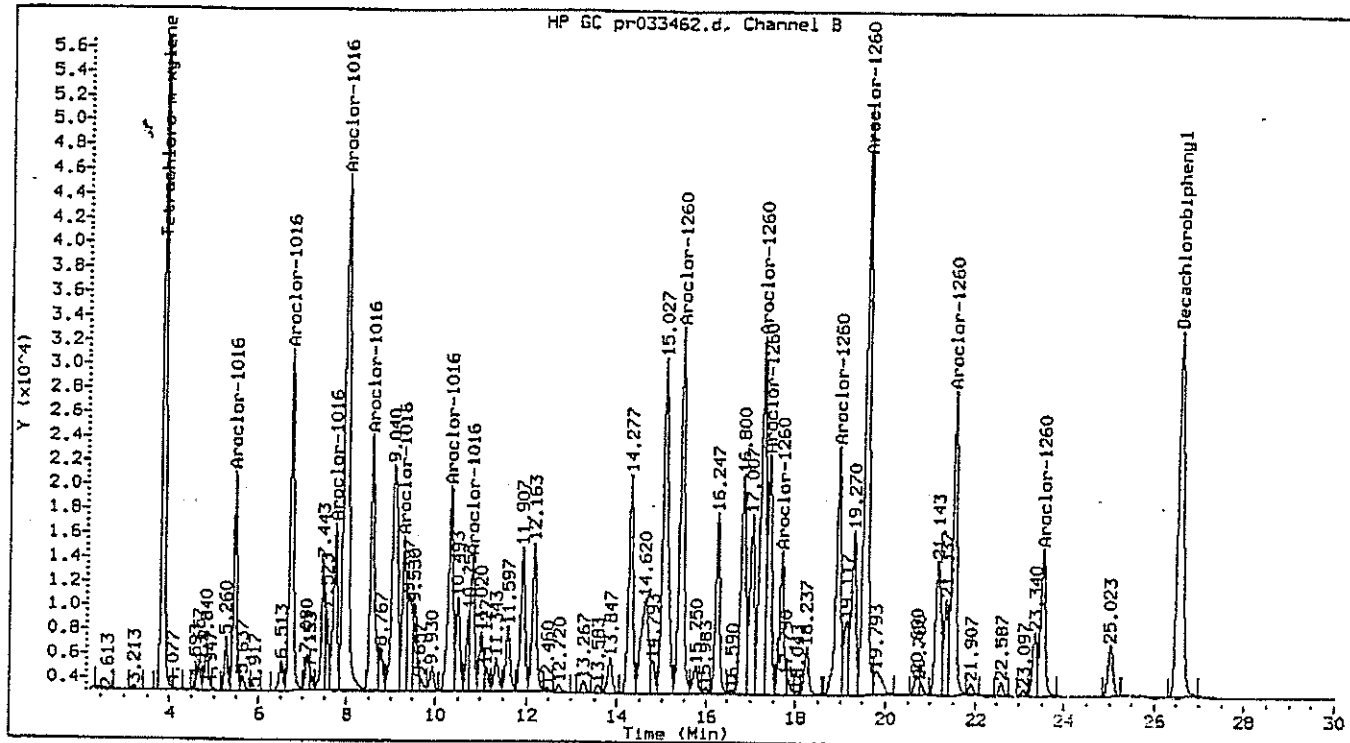
Average of peak concentrations:

1400.00

Tetrachloro-m-xylene	(M)	3.827	3.830	0.003	257726	151.972	151.972
Decachlorobiphenyl		26.553	26.560	0.007	227700	142.060	142.060

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1016/1260-2500c
Lab ID : 1016/1260-2500c
Inj Date : 24-JUL-2001 21:42
Operator : SK
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds		CONCENTRATIONS					
		RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
-----		-----	-----	-----	-----	-----	-----
Aroclor-1016	(M)	5.450	5.457	0.007	90938	2228.659	2228.659
(2)		6.727	6.737	0.010	177981	2117.059	2117.059
(3)		7.720	7.730	0.010	90284	2262.637	2262.637
(4)		7.963	7.970	0.007	357796	2346.788	2346.788
(5)		8.540	8.547	0.007	141088	2303.331	2303.331
(6)		9.283	9.290	0.007	81620	2194.212	2194.212
(7)		10.330	10.337	0.007	121340	2277.639	2277.639
(8)		10.813	10.823	0.010	69523	2347.938	2347.938
Average of peak concentrations:							2200.00

Aroclor-1260	(M)	15.403	15.413	0.010	219500	2191.730	2191.730
(2)		17.233	17.240	0.007	221767	2354.367	2354.367
(3)		17.380	17.390	0.010	140696	2138.531	2138.531
(4)		17.660	17.667	0.007	87550	2227.573	2227.573
(5)		18.920	18.927	0.007	152428	2224.645	2224.645
(6)		19.520	19.527	0.007	352424	2283.157	2283.157

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.487	21.493	0.007	180559	2352.399	2352.399
(8)	23.503	23.510	0.007	90334	2244.097	2244.097

Average of peak concentrations:

2200.00

Tetrachloro-m-xylene	(M)	3.823	3.830	0.007	334017	196.958	196.958
Decachlorobiphenyl		26.553	26.560	0.007	282837	176.460	176.460

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS INITIAL CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-5

Confirmatory Column

Calibration Files:

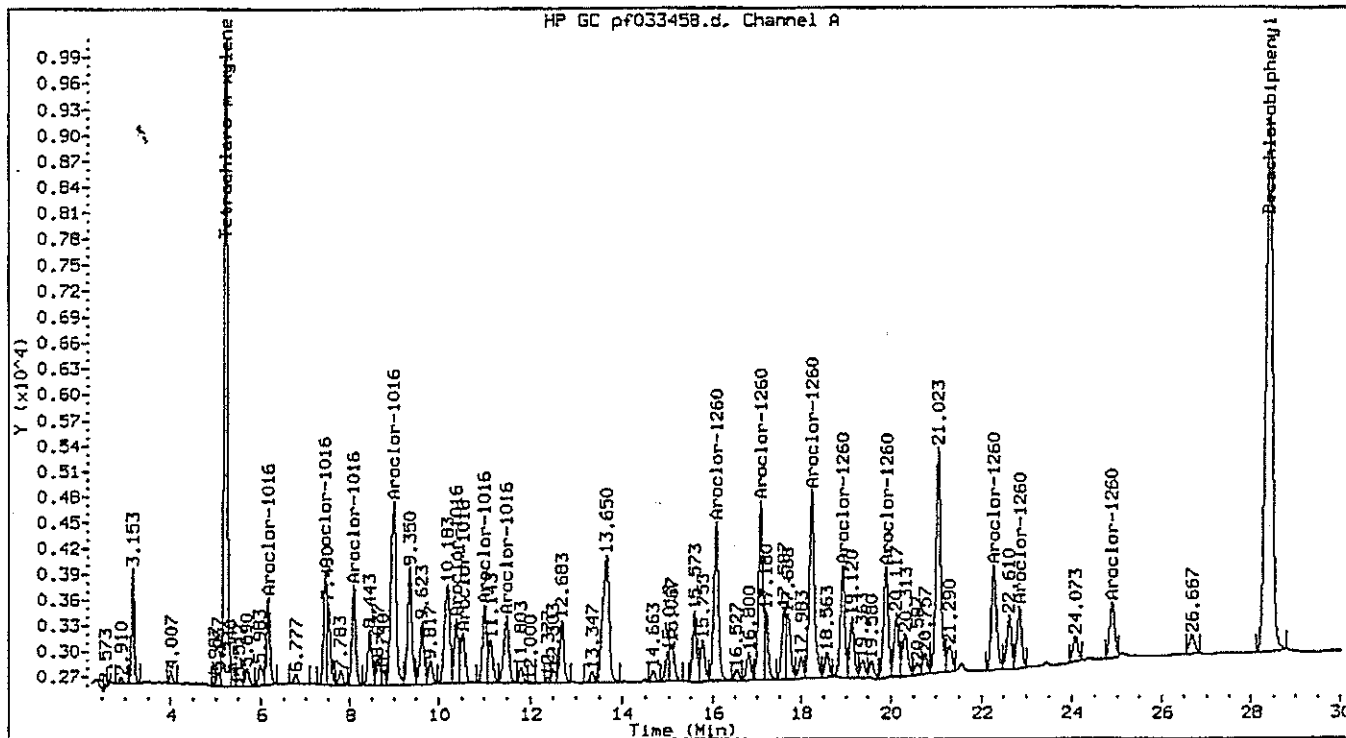
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Compound	Level	Level	Level	Level	Level	Coefficients			%RSD
	1	2	3	4	5	a0	a1	a2	or R ²
Aroclor-1016	1	54.25	51.68	46.00	45.25	41.21	47.68		10.98464
	2	74.50	67.94	58.27	55.35	51.41	61.49		15.43735
	3	66.19	66.15	59.07	57.96	53.61	60.59		9.04935
	4	185.71	189.63	174.15	171.77	160.93	176.44		6.50729
	5	46.38	46.69	40.94	39.15	36.67	41.97		10.57582
	6	44.02	44.42	39.61	38.68	35.74	40.49		9.11775
	7	58.05	60.18	53.63	52.21	49.34	54.68		8.04162
	8	63.44	67.83	62.08	61.98	59.34	62.93		4.94398
Aroclor-1260	1	135.48	131.54	109.89	113.61	104.95	119.09		11.40669
	2	152.16	144.41	123.79	125.76	116.28	132.48		11.40263
	3	174.92	182.51	148.37	170.26	159.63	167.14		7.99899
	4	94.28	94.52	93.95	83.73	78.05	88.91		8.53693
	5	90.55	90.94	89.02	84.25	78.99	86.75		5.86800
	6	100.10	108.51	100.76	107.50	102.29	103.83		3.76162
	7	54.34	57.34	65.97	56.25	54.29	57.64		8.39008
	8	48.52	53.73	59.19	52.12	49.41	52.59		8.05374
Tetrachloro-m-xylene	1758.52	1783.84	2028.03	1829.58	1753.82		1830.76		6.24329
Decachlorobiphenyl	2600.84	2501.70	2370.69	2312.45	2172.36		2391.61		6.95496

Comments:

* = %RSD exceeded maximum upper limit. Linear regression used for quantitation.

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1016/1260-100c
Lab ID : 1016/1260-100c
Inj Date : 24-JUL-2001 19:31
Operator : SK (signature)
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_1

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
Aroclor-1016	(M)	6.157	6.147	0.010	5425	113.786	113.786
(2)		7.433	7.420	0.013	7450	121.151	121.151
(3)		8.073	8.060	0.013	6619	109.237	109.237
(4)		8.990	8.977	0.013	18571	105.255	105.255
(5)		10.380	10.367	0.013	4638	110.517	110.517
(6)		10.530	10.513	0.017	4402	108.711	108.711
(7)		11.000	10.987	0.013	5805	106.163	106.163
(8)		11.483	11.470	0.013	6344	100.806	100.806

Average of peak concentrations:

110.00

Aroclor-1260	(M)	16.057	16.040	0.017	13548	113.759	113.759
(2)		17.053	17.037	0.017	15216	114.856	114.856
(3)		18.207	18.193	0.013	17492	104.655	104.655
(4)		18.907	18.893	0.013	9428	106.044	106.044
(5)		19.880	19.867	0.013	9055	104.381	104.381
(6)		22.260	22.247	0.013	10010	96.406	96.406

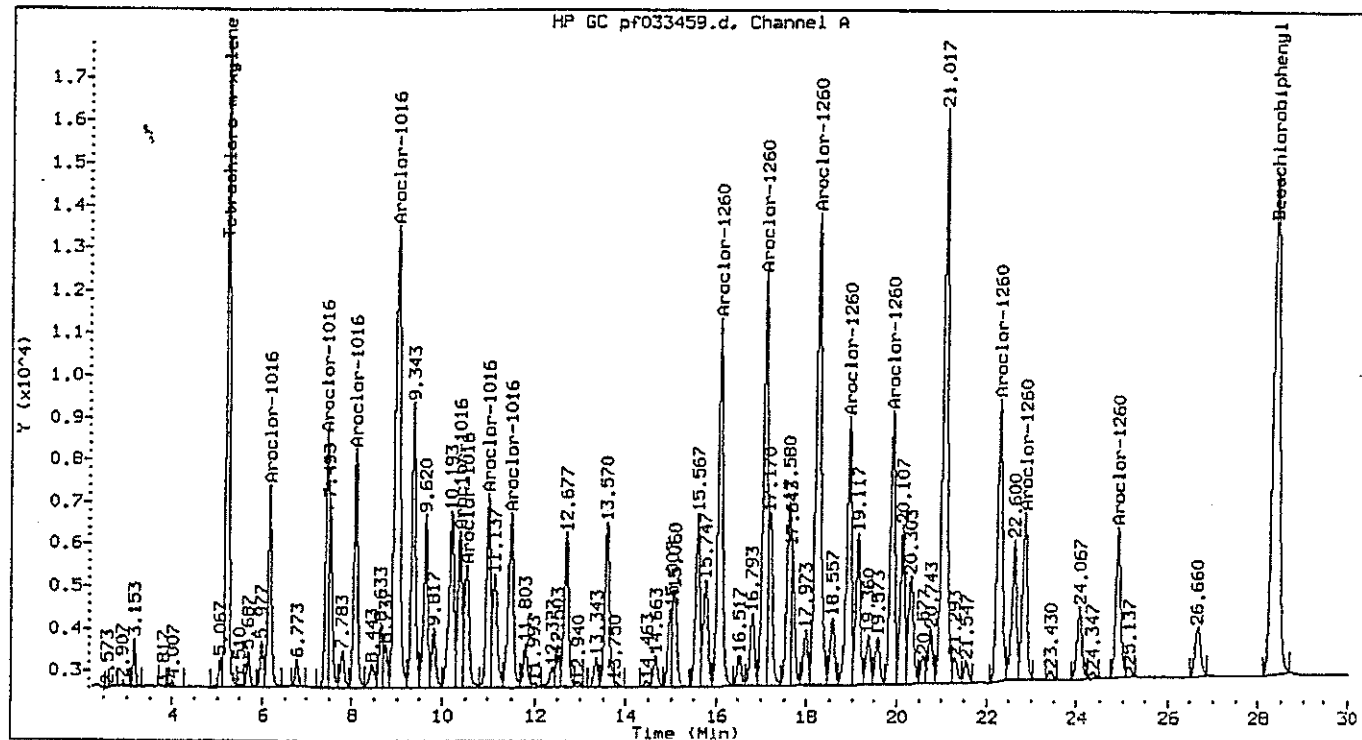
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
----- 3 (7)	22.817	22.823	0.013	5434	94.279	94.279
(8)	24.890	24.877	0.013	4852	92.253	92.253

Average of peak concentrations: 100.00

Tetrachloro-m-xylene	5.203	5.193	0.010	43963	24.014	24.014
Decachlorobiphenyl (M)	28.350	28.330	0.020	65021	27.187	27.187

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1016/1260-500c
Lab ID : 1016/1260-500c
Inj Date : 24-JUL-2001 20:04
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_2

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
Aroclor-1016	(M)	6.153	6.147	0.007	25838	541.936	541.936
(2)		7.427	7.420	0.007	33968	552.385	552.385
(3)		8.070	8.060	0.010	33073	545.820	545.820
(4)		8.983	8.977	0.007	94813	537.373	537.373
(5)		10.373	10.367	0.007	23345	556.280	556.280
(6)		10.523	10.513	0.010	22208	548.447	548.447
(7)		10.993	10.987	0.007	30089	550.273	550.273
(8)		11.477	11.470	0.007	33913	538.876	538.876

Average of peak concentrations:

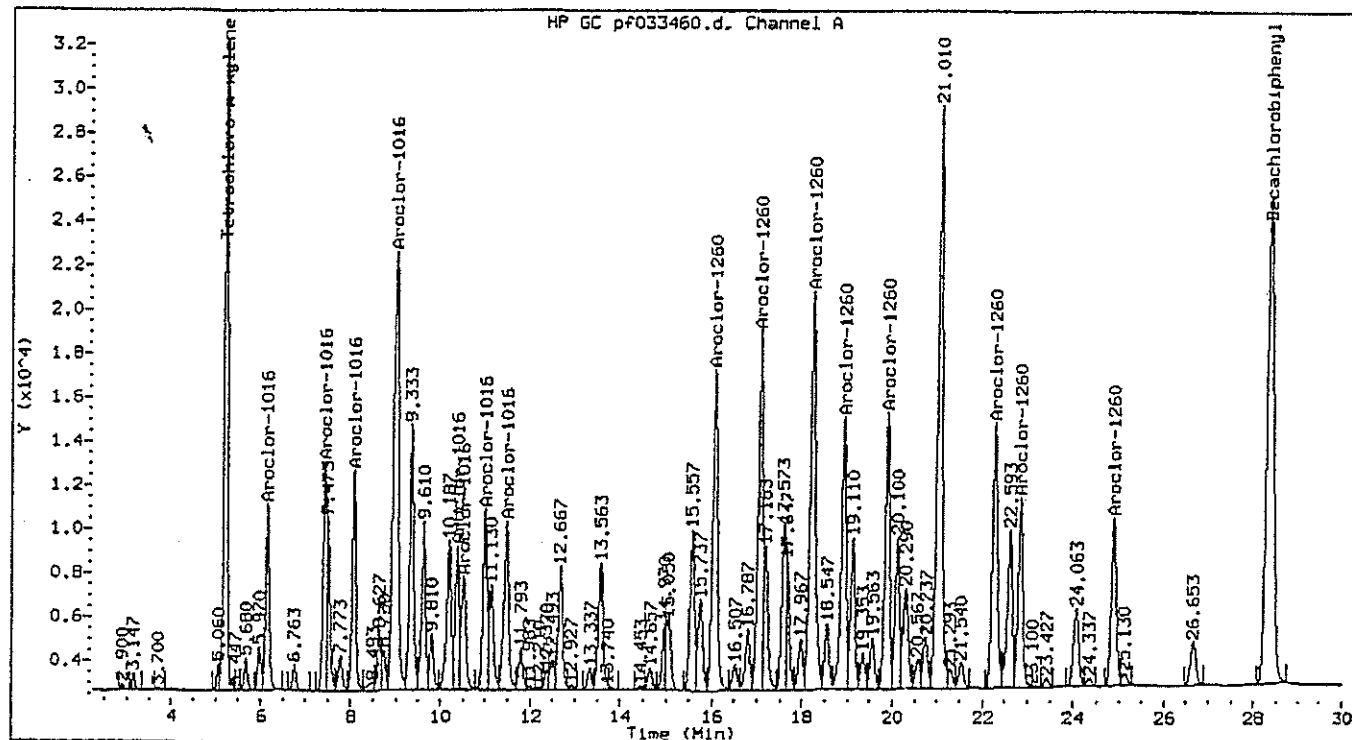
550.00

Aroclor-1260	(M)	16.050	16.040	0.010	65769	552.247	552.247
(2)		17.043	17.037	0.007	72203	545.017	545.017
(3)		18.200	18.193	0.007	91254	545.977	545.977
(4)		18.900	18.893	0.007	47259	531.558	531.558
(5)		19.873	19.867	0.007	45471	524.166	524.166
(6)		22.253	22.247	0.007	54254	522.517	522.517

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	22.830	22.823	0.007	28669	497.403	497.403
(8)	24.880	24.877	0.003	26865	510.794	510.794
Average of peak concentrations:						530.00
-----	-----	-----	-----	-----	-----	-----
Tetrachloro-m-xylene (M)	5.200	5.193	0.007	89192	48.719	48.719
-----	-----	-----	-----	-----	-----	-----
Decachlorobiphenyl	28.343	28.330	0.013	125085	52.302	52.302
-----	-----	-----	-----	-----	-----	-----

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1016/1260-1000c
Lab ID : 1016/1260-1000c
Inj Date : 24-JUL-2001 20:36
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	6.147	6.147	0.000	46001	964.842
(2)		7.420	7.420	0.000	58271	947.599
(3)		8.060	8.060	0.000	59069	974.846
(4)		8.977	8.977	0.000	174148	987.022
(5)		10.367	10.367	0.000	40936	975.450
(6)		10.513	10.513	0.000	39609	978.181
(7)		10.987	10.987	0.000	53627	980.740
(8)		11.470	11.470	0.000	62076	986.384

Average of peak concentrations:

970.00

Aroclor-1260	(M)	16.040	16.040	0.000	109890	922.721
(2)		17.037	17.037	0.000	123792	934.432
(3)		18.193	18.193	0.000	148374	887.729
(4)		18.893	18.893	0.000	93953	1056.760
(5)		19.867	19.867	0.000	89015	1026.119
(6)		22.247	22.247	0.000	100762	970.432

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.823	22.823	0.000	65970	1144.570	1144.570
(8)	24.877	24.877	0.000	59191	1125.420	1125.420

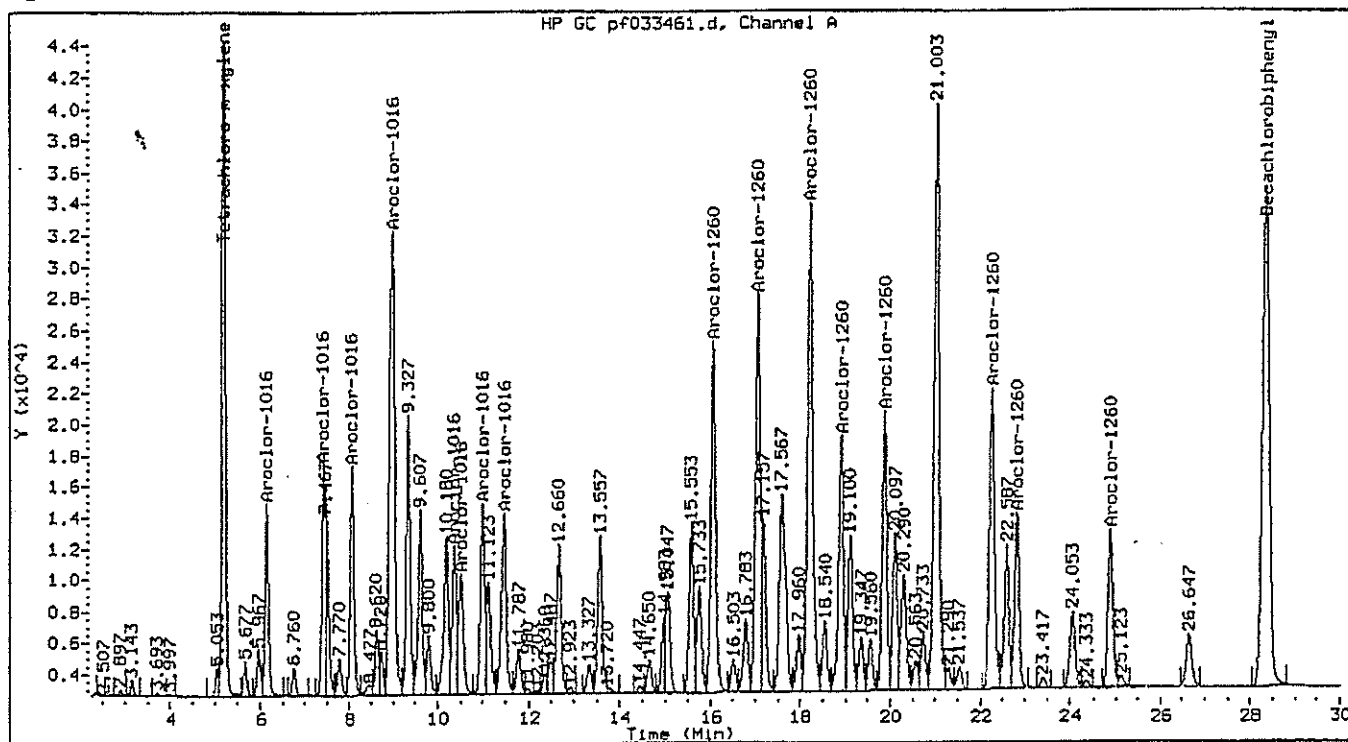
Average of peak concentrations:

1000.00

Tetrachloro-m-xylene	(M)	5.193	5.193	0.000	202803	110.775	110.775
Decachlorobiphenyl		28.330	28.330	0.000	237069	99.125	99.125

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1016/1260-1500c
Lab ID : 1016/1260-1500c
Inj Date : 24-JUL-2001 21:09
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	6.140	6.147	0.007	67872	1423.572
(2)		7.413	7.420	0.007	83020	1350.066
(3)		8.053	8.060	0.007	86933	1434.699
(4)		8.970	8.977	0.007	257656	1460.322
(5)		10.360	10.367	0.007	58729	1399.433
(6)		10.507	10.513	0.007	58023	1432.931
(7)		10.980	10.987	0.007	78311	1432.165
(8)		11.467	11.470	0.003	92967	1477.241

Average of peak concentrations:

1400.00

Aroclor-1260	(M)	16.037	16.040	0.003	170411	1430.901
(2)		17.030	17.037	0.007	188637	1423.908
(3)		18.187	18.193	0.007	255390	1528.011
(4)		18.887	18.893	0.007	125593	1412.639
(5)		19.860	19.867	0.007	126378	1456.821
(6)		22.243	22.247	0.003	161246	1552.949

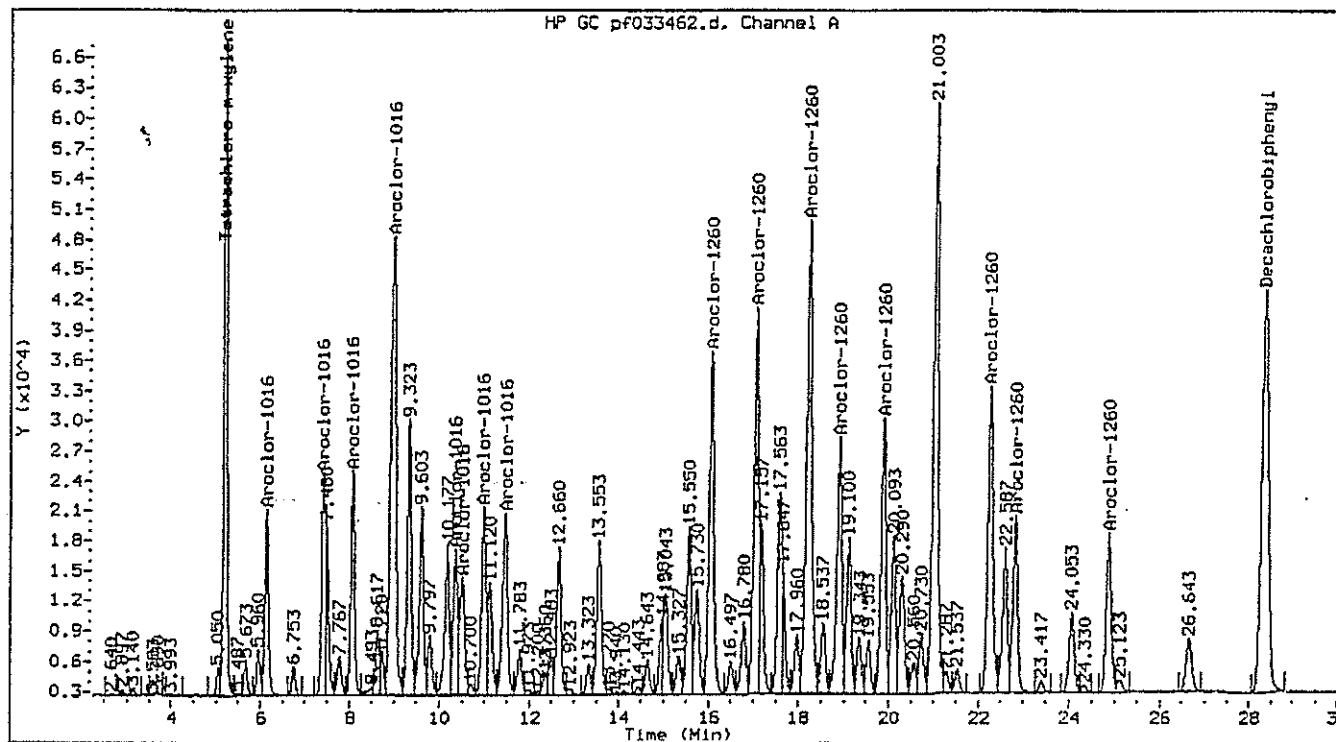
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.817	22.823	0.007	84378	1463.946	1463.946
(8)	24.870	24.877	0.007	78183	1486.521	1486.521

Average of peak concentrations: 1500.00

Tetrachloro-m-xylene	5.190	5.193	0.003	274437	149.904	149.904
Decachlorobiphenyl	28.327	28.330	0.003	346867	145.035	145.035

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1016/1260-2500c
Lab ID : 1016/1260-2500c
Inj Date : 24-JUL-2001 21:42
Operator : SK 2726101
Cpnd Sublist: AR16600S
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_5

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016 (M)	6.137	6.147	0.010	103028	2160.947	2160.947
(2)	7.410	7.420	0.010	128532	2090.179	2090.179
(3)	8.050	8.060	0.010	134014	2211.701	2211.701
(4)	8.967	8.977	0.010	402336	2280.328	2280.328
(5)	10.357	10.367	0.010	91682	2184.658	2184.658
(6)	10.503	10.513	0.010	89339	2206.309	2206.309
(7)	10.977	10.987	0.010	123346	2255.773	2255.773
(8)	11.460	11.470	0.010	148361	2357.448	2357.448

Average of peak concentrations: 2200.00

Aroclor-1260 (M)	16.033	16.040	0.007	262380	2203.144	2203.144
(2)	17.030	17.037	0.007	290690	2194.244	2194.244
(3)	18.183	18.193	0.010	399081	2387.721	2387.721
(4)	18.883	18.893	0.010	195134	2194.819	2194.819
(5)	19.857	19.867	0.010	197467	2276.299	2276.299
(6)	22.237	22.247	0.010	255733	2462.947	2462.947

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.817	22.823	0.007	135717	2354.671	2354.671
(8)	24.867	24.877	0.010	123525	2348.625	2348.625
Average of peak concentrations:					2300.00	
Tetrachloro-m-xylene	(M) 5.187	5.193	0.007	350763	191.595	191.595
Decachlorobiphenyl	28.323	28.330	0.007	434473	181.666	181.666

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-608

Primary Column

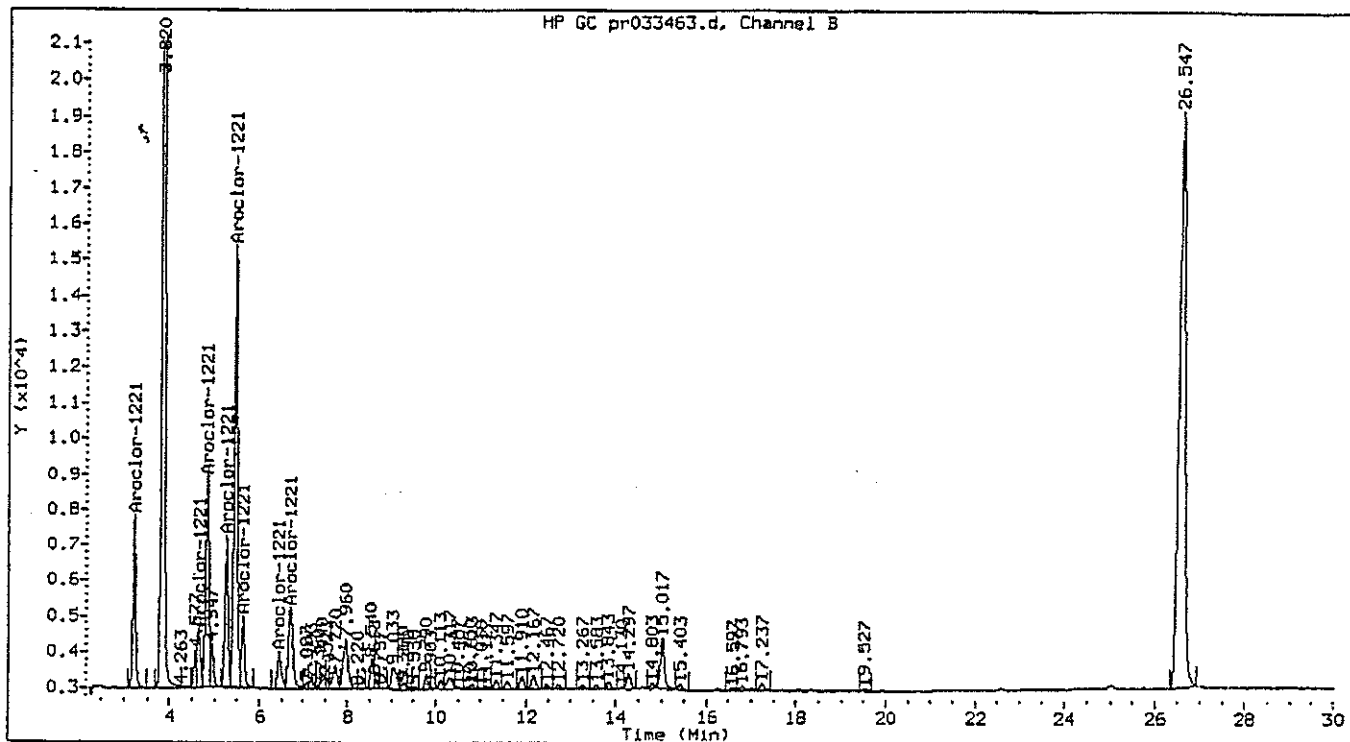
Midpoint Calibration File:

/chem1/PESTGCS.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033463.d

Compound	Midpoint Standard
	Response Factor
-----	-----
Aroclor-1221	20.65
2	8.55
3	29.27
4	20.81
5	61.51
6	10.23
7	6.18
8	17.16

Comments:

+ = Multi-component peak not used in calibration of compound.



GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5

Confirmatory Column

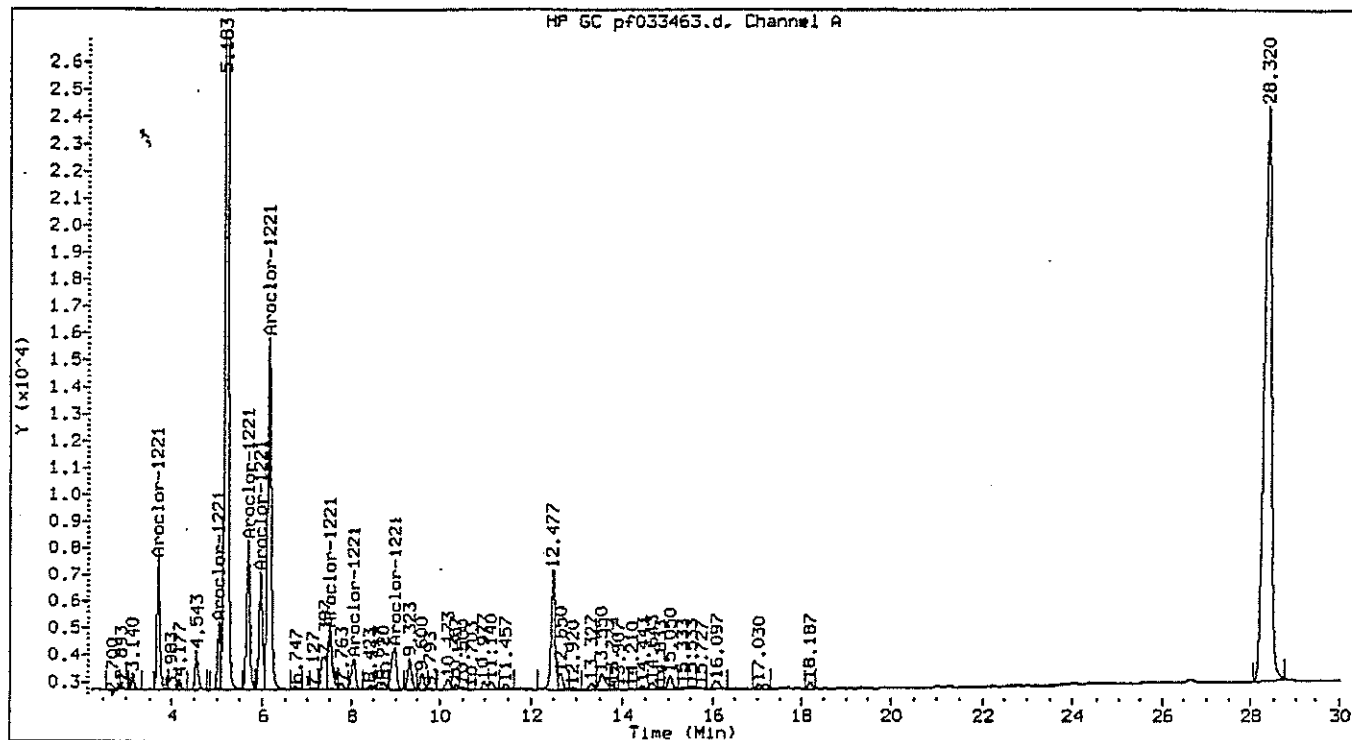
Midpoint Calibration File:

/chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033463.d

Compound	Midpoint Standard Response Factor
Aroclor-1221	21.87
2	10.94
3	30.02
4	23.43
5	75.65
6	15.21
7	8.11
8	12.88

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1221-1000c
Lab ID : 1221-1000c
Inj Date : 24-JUL-2001 22:14
Operator : SK
Cpnd Sublist: AR12210

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1221	(M)	3.683	3.683	0.000	21868	1000.000
(2)	5.047	5.047	0.000	10942	1000.000	1000.000
(3)	5.673	5.673	0.000	30015	1000.000	1000.000
(4)	5.960	5.960	0.000	23427	1000.000	1000.000
(5)	6.137	6.137	0.000	75646	1000.000	1000.000
(6)	7.510	7.510	0.000	15206	1000.000	1000.000
(7)	8.040	8.040	0.000	8107	1000.000	1000.000
(8)	8.970	8.970	0.000	12884	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-608 Primary Column

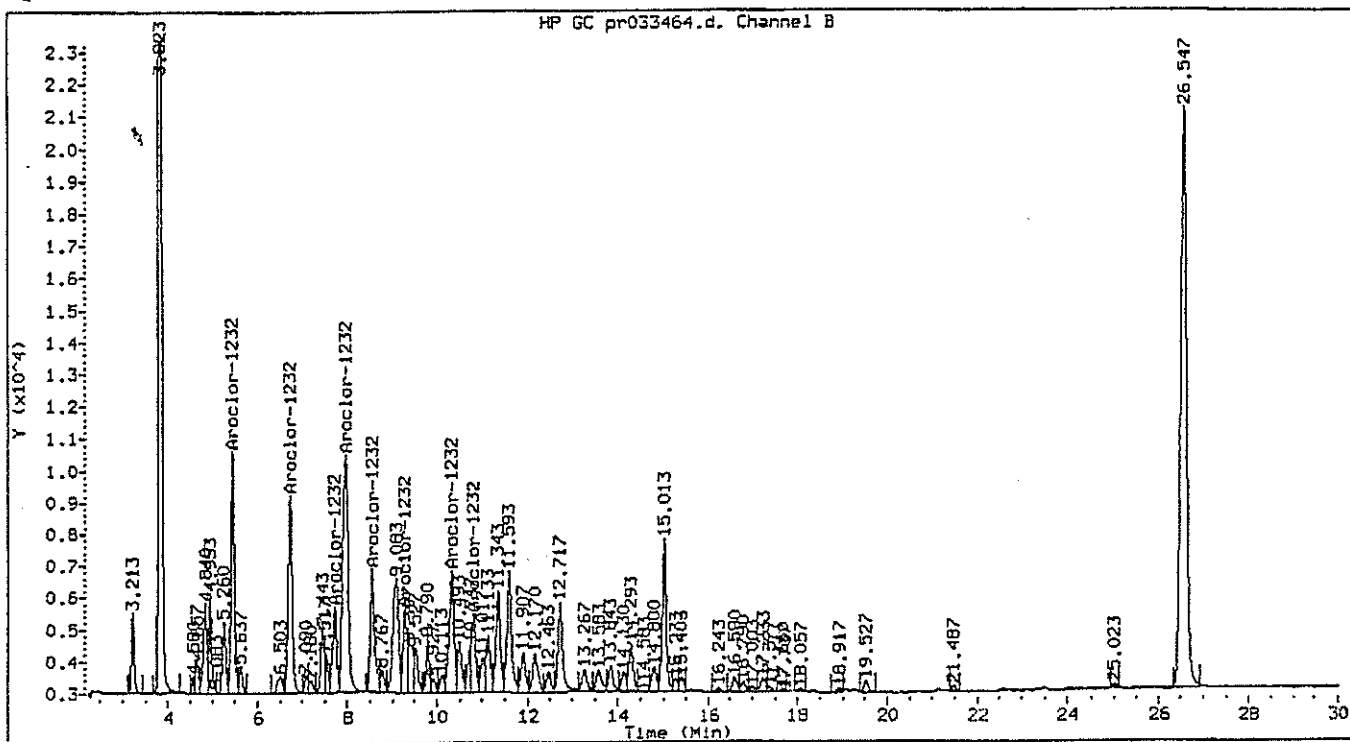
Midpoint Calibration File:

/chem1/PESTGCS.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033464.d

Compound	Midpoint Standard
	Response Factor
-----	-----
Aroclor-1232	37.76
2	39.66
3	17.17
4	62.94
5	25.39
6	16.49
7	28.08
8	15.94

Comments:

+ = Multi-component peak not used in calibration of compound.



```

Method       : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info  : 1232-1000c
Lab ID       : 1232-1000c
Inst ID      : PESTGC5.i
Inj Date     : 24-JUL-2001 22:47
Dil Factor    : 1
Operator      : SK [Signature]
Sample Matrix : SOIL
Cpnd Sublist: AR12320
Sample Type   : CALIB 3

```

					CONCENTRATIONS		
					ON-COLUMN	FINAL	
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/kg)
-----		-----	-----	-----	-----	-----	-----
Aroclor-1232	(M)	5.450	5.450	0.000	37757	1000.000	1000.000
(2)		6.727	6.727	0.000	39658	1000.000	1000.000
(3)		7.720	7.720	0.000	17168	1000.000	1000.000
(4)		7.963	7.963	0.000	62944	1000.000	1000.000
(5)		8.540	8.540	0.000	25389	1000.000	1000.000
(6)		9.280	9.280	0.000	16494	1000.000	1000.000
(7)		10.327	10.327	0.000	28083	1000.000	1000.000
(8)		10.813	10.813	0.000	15940	1000.000	1000.000

Average of peak concentrations: 1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-5 Confirmatory Column

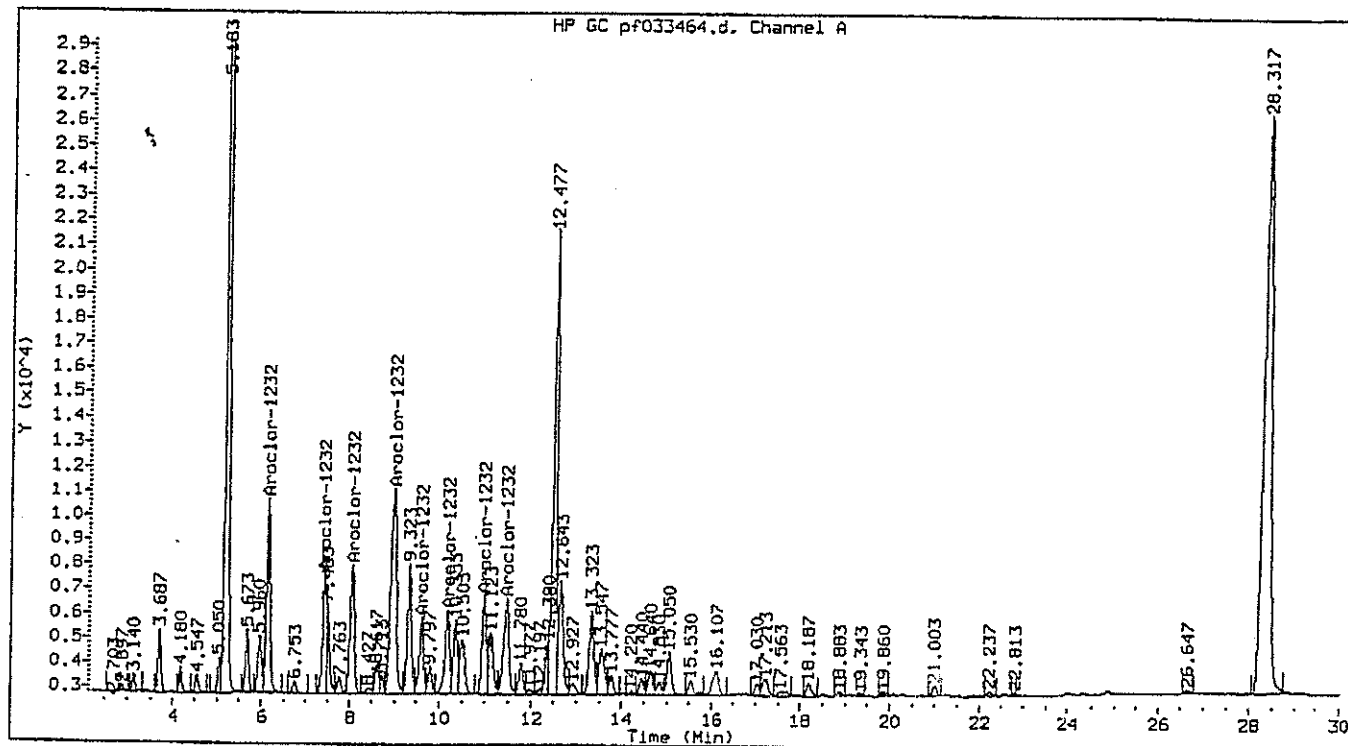
Midpoint Calibration File:

/chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033464.d

Compound	Midpoint Standard
	Response Factor
-----	-----
Aroclor-1232	44.86
2	29.35
3	36.90
4	73.23
5	20.09
6	23.98
7	26.14
8	31.30

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1232-1000c
Lab ID : 1232-1000c
Inj Date : 24-JUL-2001 22:47
Operator : SK [signature]
Cpnd Sublist: AR12320

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
-----		-----	-----	-----	-----	-----	-----
Aroclor-1232	(M)	6.137	6.137	0.000	44862	1000.000	1000.000
	(2)	7.410	7.410	0.000	29349	1000.000	1000.000
	(3)	8.040	8.040	0.000	36899	1000.000	1000.000
	(4)	8.967	8.967	0.000	73228	1000.000	1000.000
	(5)	9.600	9.600	0.000	20094	1000.000	1000.000
	(6)	10.177	10.177	0.000	23980	1000.000	1000.000
	(7)	10.973	10.973	0.000	26138	1000.000	1000.000
	(8)	11.457	11.457	0.000	31304	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.1 Column ID: DB-608 Primary Column

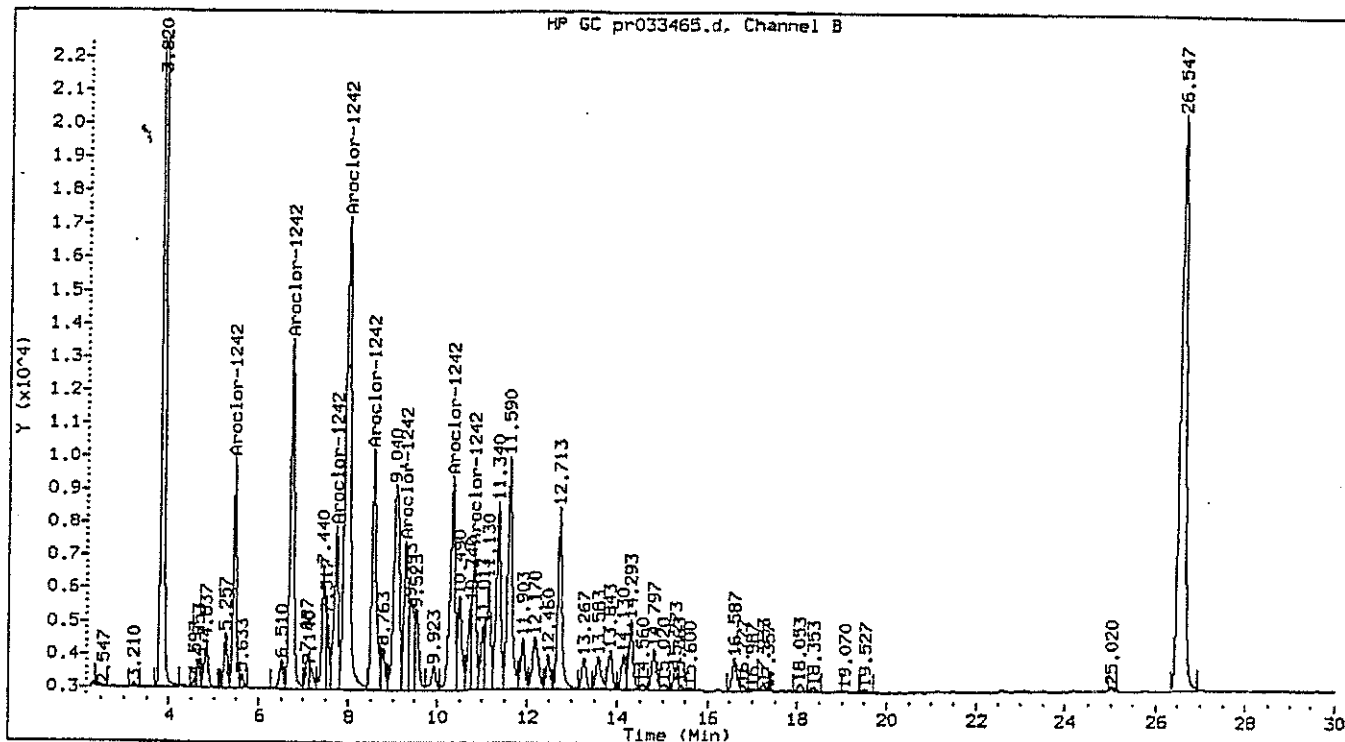
Midpoint Calibration File:

/chem1/PESTGC5.1/8082/rear/Jul01/07-25-01/25jul01c.b/pr033465.d

Compound	Midpoint Standard Response Factor
Aroclor-1242	34.42
2	66.44
3	32.36
4	121.27
5	48.84
6	29.49
7	49.12
8	29.35

Comments:

+ = Multi-component peak not used in calibration of compound.



GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5 Confirmatory Column

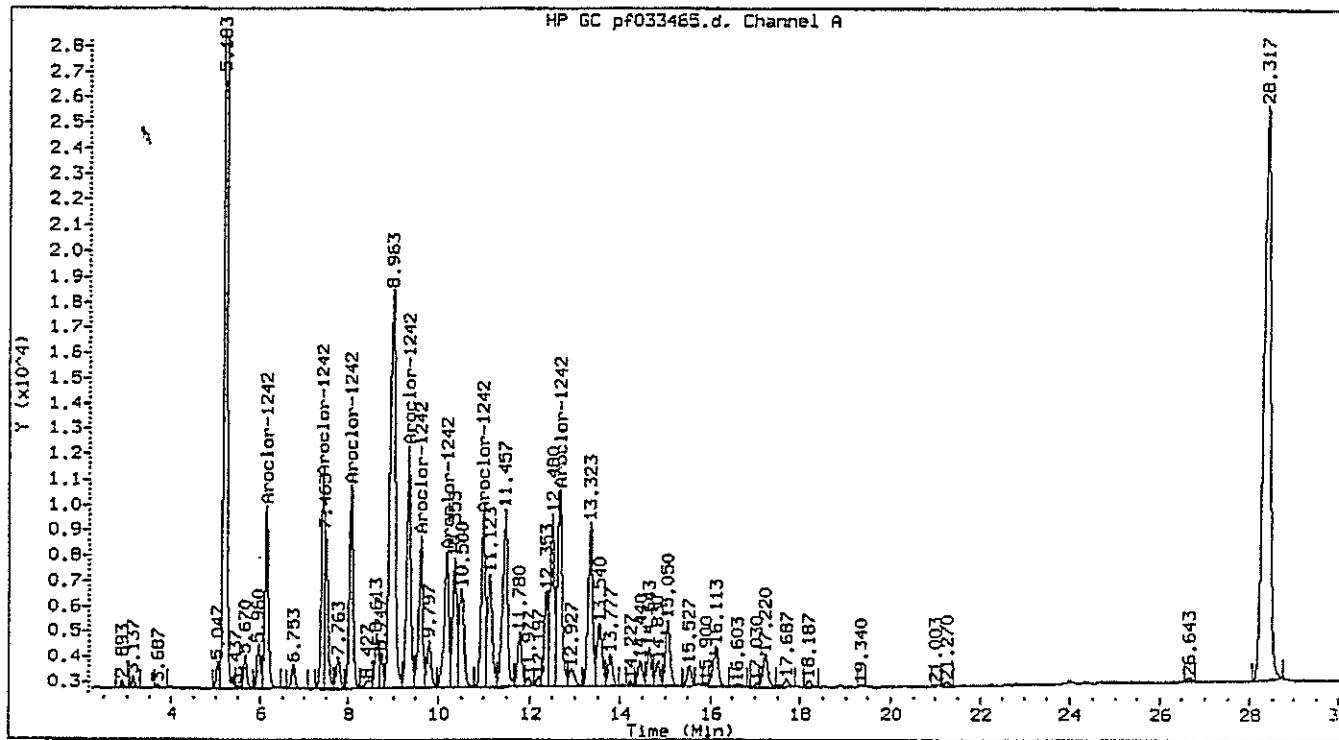
Midpoint Calibration File:

/chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033465.d

Compound	Midpoint Standard
	Response Factor
-----	-----
Aroclor-1242	39.22
2	47.61
3	46.98
4	59.63
5	38.51
6	37.97
7	43.72
8	57.00

Comments:

+ = Multi-component peak not used in calibration of compound.



GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.1 Column ID: DB-608 Primary Column

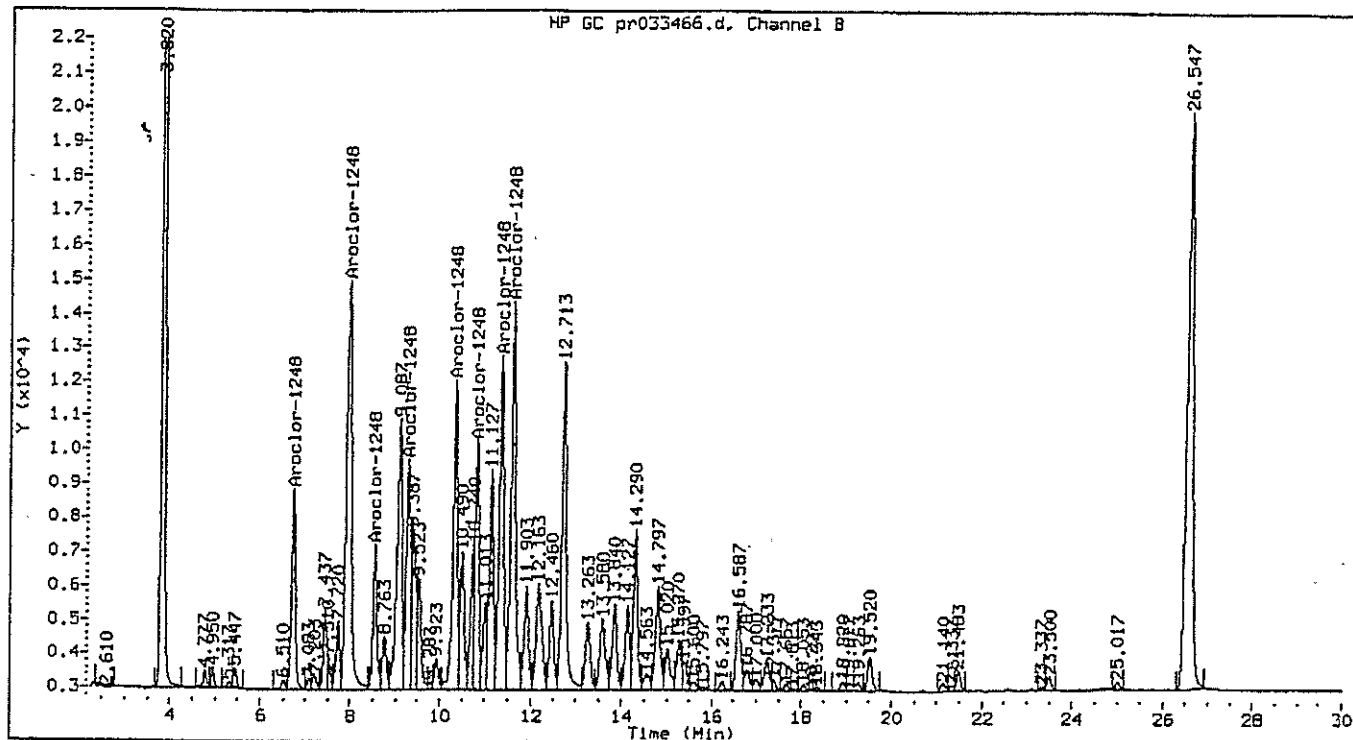
Midpoint Calibration File:

/chem1/PESTGCS.1/8082/rear/Jul01/07-25-01/25jul01c.b/pr033466.d

Compound	Midpoint Standard
	Response Factor
Aroclor-1248	35.31
2	101.47
3	26.10
4	42.11
5	63.36
6	47.99
7	66.24
8	81.34

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1248-1000c
Lab ID : 1248-1000c
Inj Date : 24-JUL-2001 23:52
Operator : SK 07/26/01
Cpnd Sublist: AR12480

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)	6.720	6.720	0.000	35307	1000.000
(2)		7.960	7.960	0.000	101470	1000.000
(3)		8.537	8.537	0.000	26100	1000.000
(4)		9.277	9.277	0.000	42106	1000.000
(5)		10.323	10.323	0.000	63358	1000.000
(6)		10.810	10.810	0.000	47989	1000.000
(7)		11.337	11.337	0.000	66241	1000.000
(8)		11.587	11.587	0.000	81340	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.1 Column ID: DB-5 Confirmatory Column

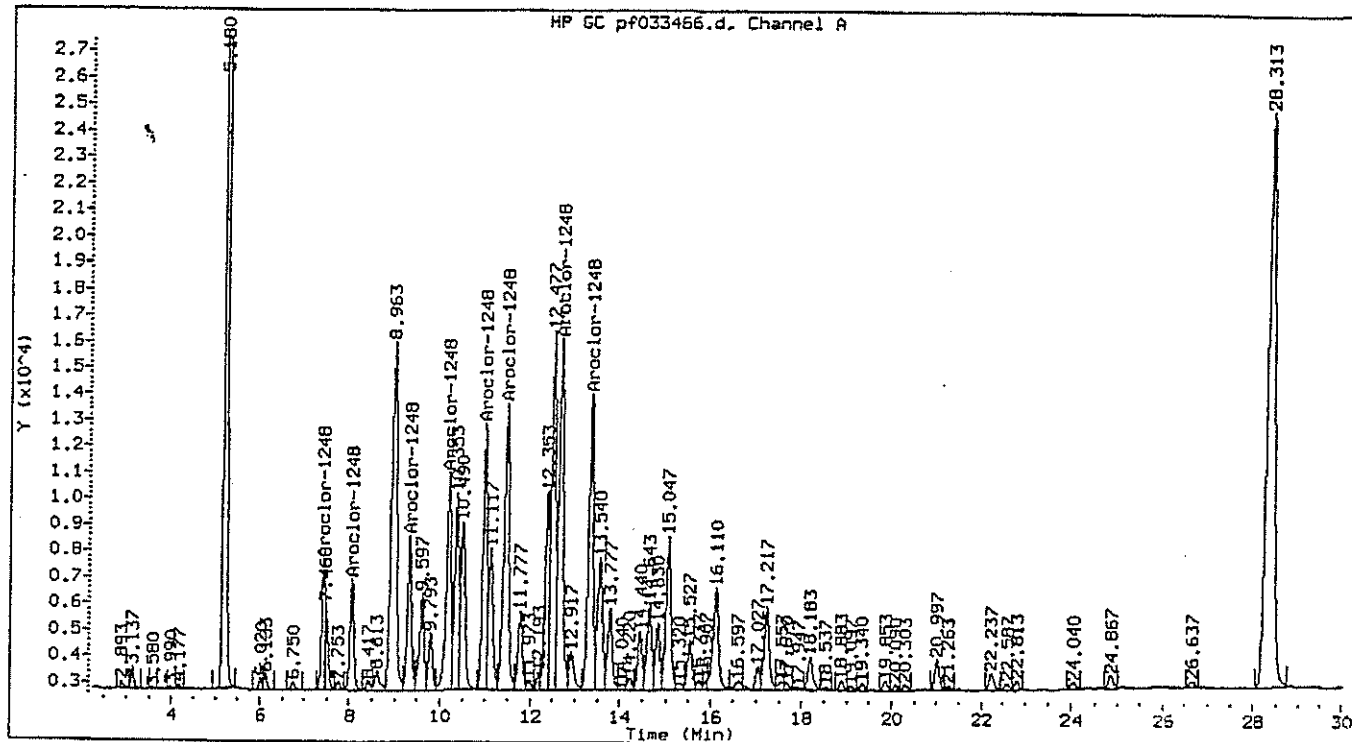
Midpoint Calibration File:

/chem1/PESTGCS.1/8082/front/Jul01/07-25-01/25jul01c.b/pf033466.d

Compound	Midpoint Standard Response Factor
Aroclor-1248	27.01
2	25.20
3	37.71
4	58.48
5	64.95
6	88.27
7	99.53
8	82.45

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1248-1000c
Lab ID : 1248-1000c
Inj Date : 24-JUL-2001 23:52
Operator : SK (271261)
Cpnd Sublist: AR12480

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)					
(2)	7.407	7.407	0.000	27009	1000.000	1000.000
(3)	8.043	8.043	0.000	25196	1000.000	1000.000
(4)	9.320	9.320	0.000	37714	1000.000	1000.000
(5)	10.170	10.170	0.000	58476	1000.000	1000.000
(6)	10.970	10.970	0.000	64953	1000.000	1000.000
(7)	11.453	11.453	0.000	88265	1000.000	1000.000
(8)	12.640	12.640	0.000	99525	1000.000	1000.000
	13.323	13.323	0.000	82448	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-608 Primary Column

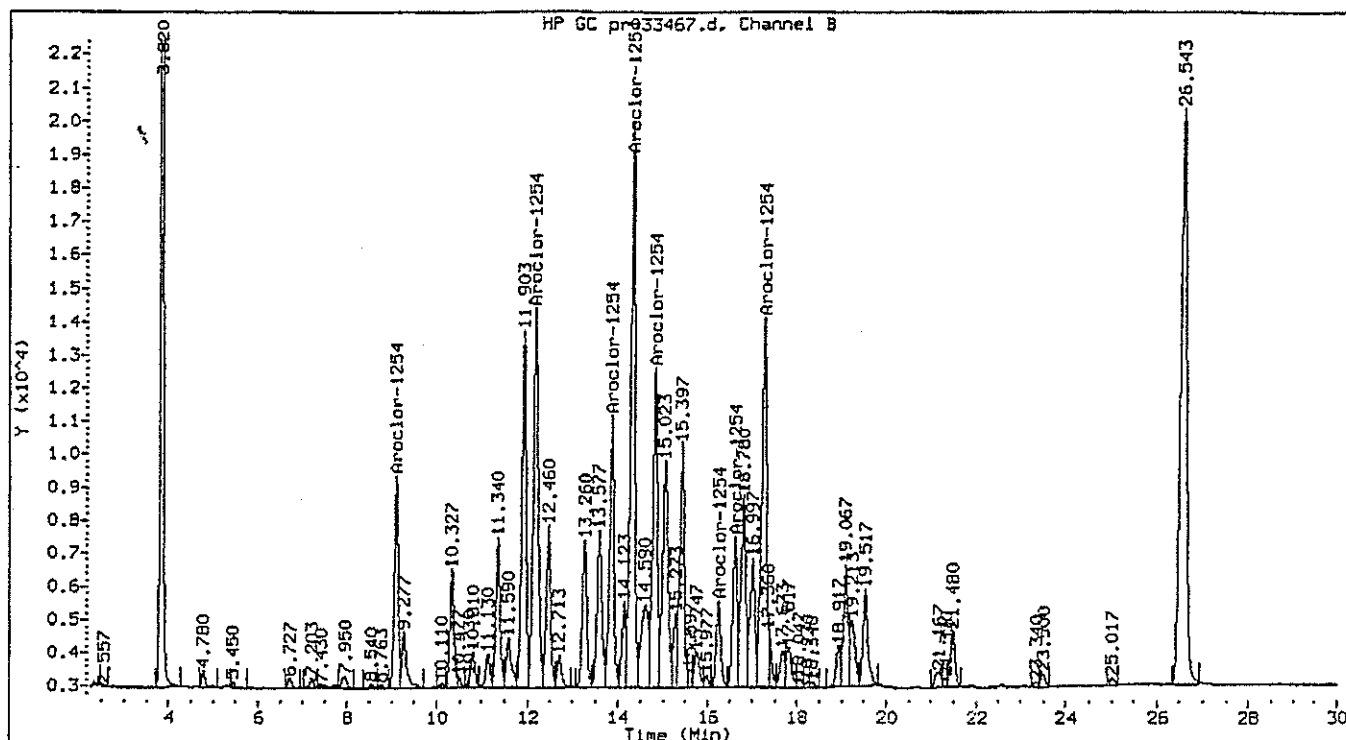
Midpoint Calibration File:

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Compound	Midpoint Standard Response Factor
Aroclor-1254	40.17
2	86.73
3	54.48
4	117.34
5	70.34
6	17.63
7	30.49
8	85.60

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : -/chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1254-1000c
Lab ID : 1254-1000c
Inj Date : 25-JUL-2001 00:24
Operator : SK 07/26/01
Cpnd Sublist: AR12540

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	9.093	9.093	0.000	40167	1000.000
(2)	12.157	12.157	0.000	86732	1000.000	1000.000
(3)	13.840	13.840	0.000	54485	1000.000	1000.000
(4)	14.290	14.290	0.000	117343	1000.000	1000.000
(5)	14.793	14.793	0.000	70345	1000.000	1000.000
(6)	16.240	16.240	0.000	17628	1000.000	1000.000
(7)	16.583	16.583	0.000	30494	1000.000	1000.000
(8)	17.230	17.230	0.000	85598	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGC5.i Column ID: DB-5

Confirmatory Column

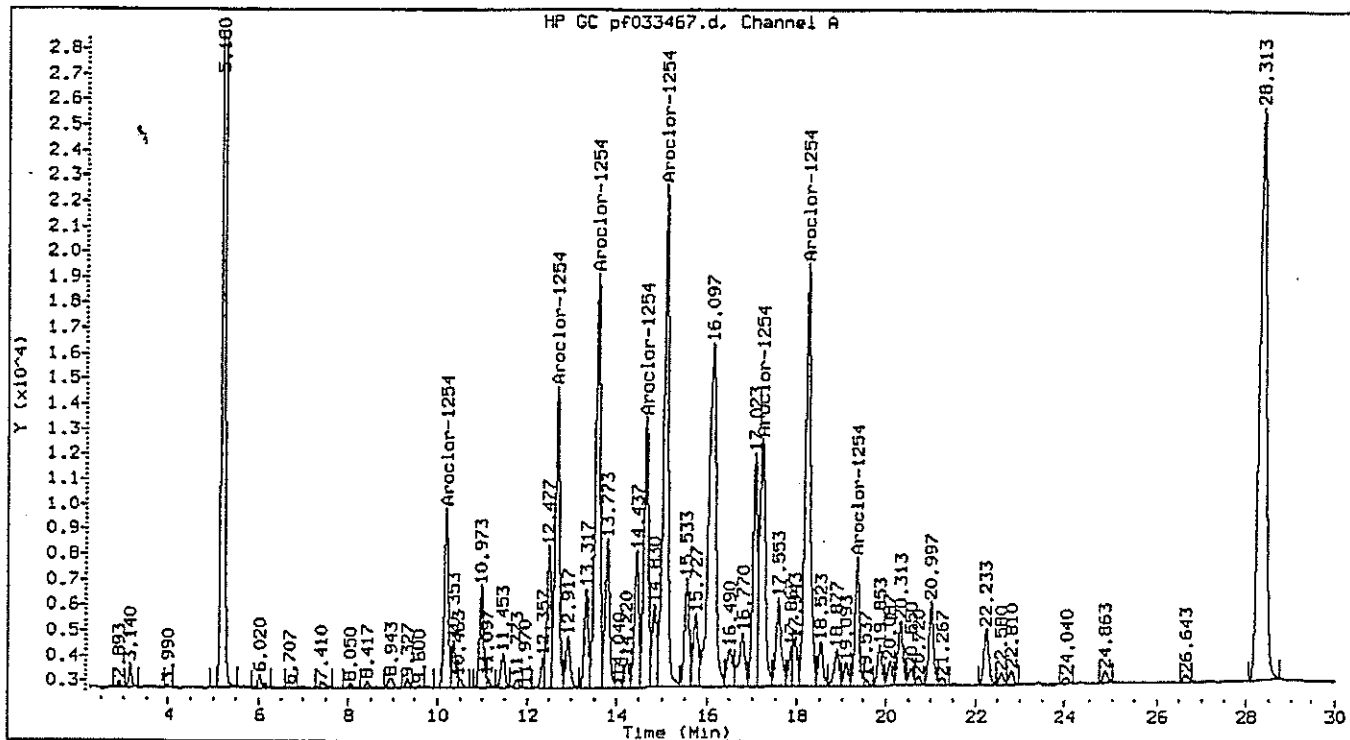
Midpoint Calibration File:

/chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033467.d

Compound	Midpoint Standard Response Factor
Aroclor-1254	45.98
2	83.78
3	120.48
4	74.40
5	148.44
6	89.82
7	140.89
8	36.83

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1254-1000c
Lab ID : 1254-1000c
Inj Date : 25 JUL-2001 00:24
Operator : SK (26/v)
Cpnd Sublist: AR12540
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1254	(M)	10.173	10.173	0.000	45977	1000.000
(2)		12.653	12.653	0.000	83775	1000.000
(3)		13.540	13.540	0.000	120482	1000.000
(4)		14.637	14.637	0.000	74397	1000.000
(5)		15.043	15.043	0.000	148444	1000.000
(6)		17.187	17.187	0.000	89818	1000.000
(7)		18.180	18.180	0.000	140887	1000.000
(8)		19.337	19.337	0.000	36833	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.1 Column ID: DB-608 Primary Column

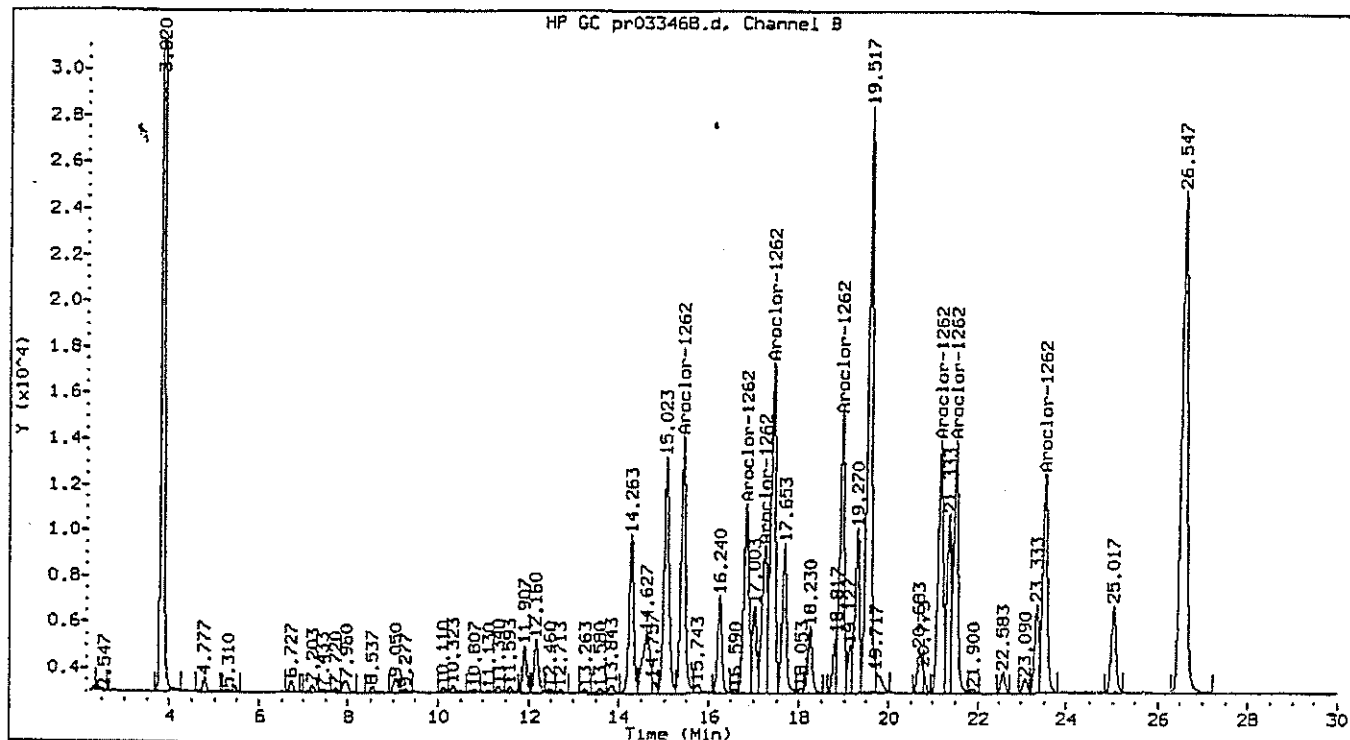
Midpoint Calibration File:

/chem1/PESTGCS.1/8082/rear/Jul01/07-25-01/25jul01c.b/pr033468.d

Compound	Midpoint Standard
	Response Factor
-----	-----
Aroclor-1262	80.70
2	67.63
3	48.41
4	104.23
5	86.12
6	84.87
7	80.09
8	70.66

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1262-1000c
Lab ID : 1262-1000c
Inj Date : 25-JUL-2001 00:57
Operator : SK *26/01*
Cpnd Sublist: AR12620

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M) 15.400	15.400	0.000	80699	1000.000	1000.000
(2)	16.807	16.807	0.000	67626	1000.000	1000.000
(3)	17.223	17.223	0.000	48407	1000.000	1000.000
(4)	17.377	17.377	0.000	104233	1000.000	1000.000
(5)	18.913	18.913	0.000	86125	1000.000	1000.000
(6)	21.127	21.127	0.000	84866	1000.000	1000.000
(7)	21.483	21.483	0.000	80088	1000.000	1000.000
(8)	23.497	23.497	0.000	70660	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.1 Column ID: DB-5 Confirmatory Column

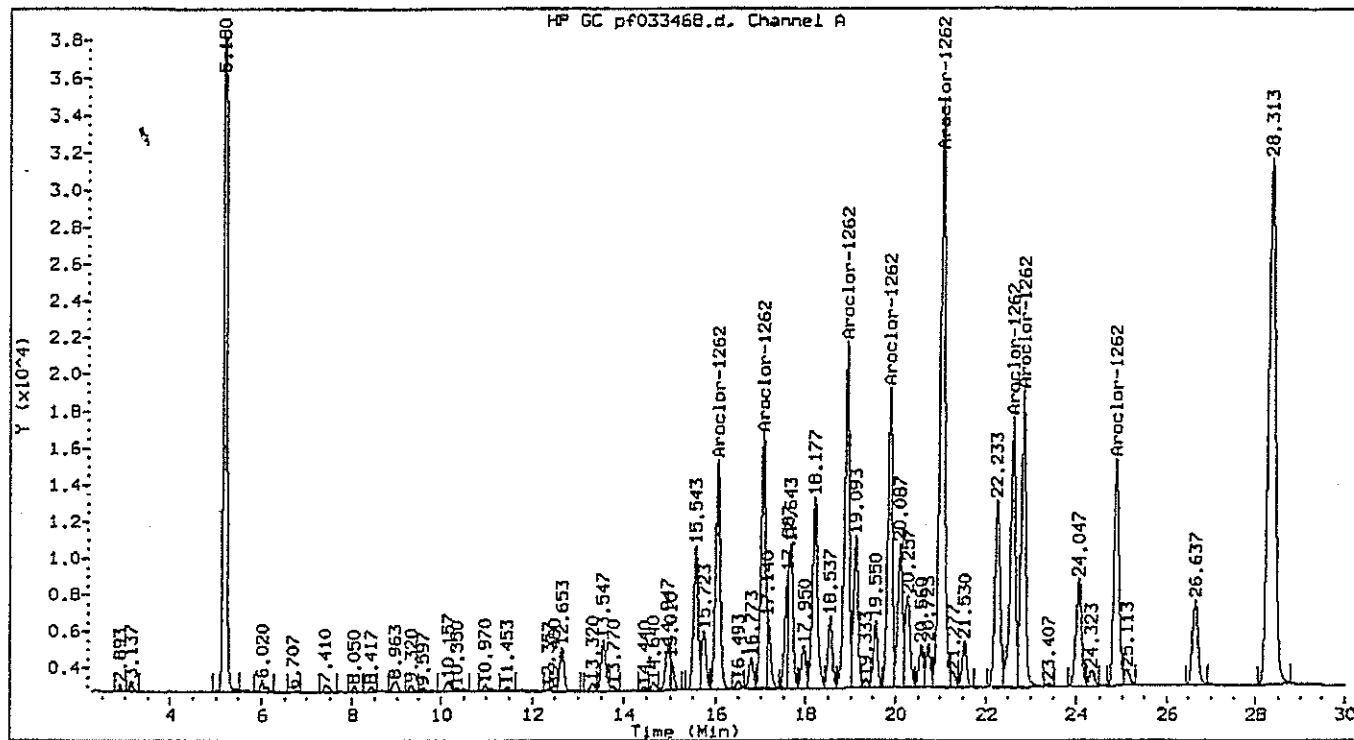
Midpoint Calibration File:

/chem1/PESTGCS.1/8082/front/Jul01/07-25-01/25jul01c.b/pf033468.d

Compound	Midpoint Standard Response Factor
-----	-----
Aroclor-1262	91.39
2	104.97
3	140.26
4	115.26
5	251.38
6	116.32
7	124.48
8	96.71

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info : 1262-1000c
Lab ID : 1262-1000c
Inj Date : 25-JUL-2001 00:57
Operator : SK
Cpnd Sublist: AR12620

Inst ID : PESTGCS.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1262	(M) 16.027	16.027	0.000	91395	1000.000	1000.000
(2)	17.023	17.023	0.000	104966	1000.000	1000.000
(3)	18.877	18.877	0.000	140262	1000.000	1000.000
(4)	19.850	19.850	0.000	115264	1000.000	1000.000
(5)	20.993	20.993	0.000	251385	1000.000	1000.000
(6)	22.580	22.580	0.000	116321	1000.000	1000.000
(7)	22.810	22.810	0.000	124482	1000.000	1000.000
(8)	24.863	24.863	0.000	96709	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.1 Column ID: DB-608 Primary Column

Midpoint Calibration File:

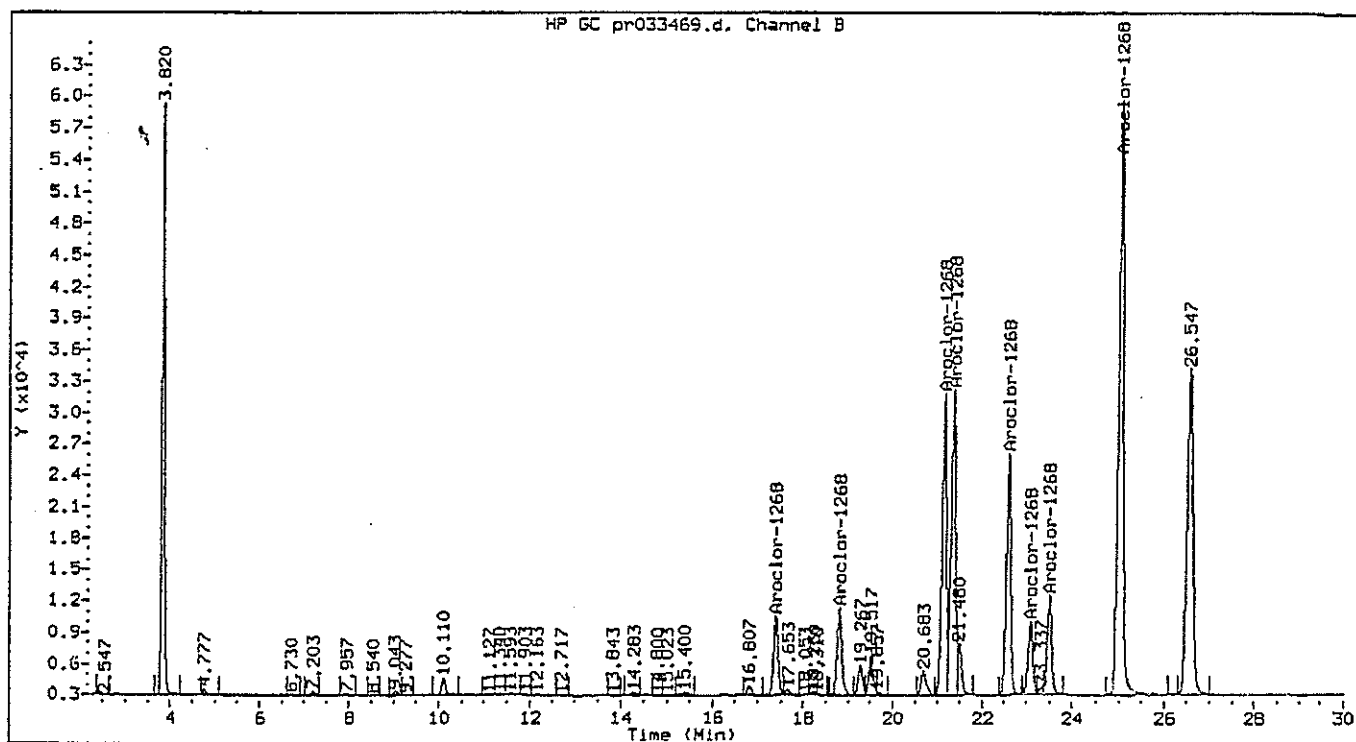
/chem1/PESTGCS.1/8082/rear/Jul01/07-25-01/25jul01c.b/pr033469.d

Compound	Midpoint Standard
	Response Factor

Aroclor-1268	52.98
2	64.14
3	200.19
4	207.81
5	163.75
6	49.16
7	68.03
8	450.46

Comments:

+ = Multi-component peak not used in calibration of compound.



Method : /chem1/PESTGCS.i/8082/rear/Jul01/07-25-01/25jul01c.b/Pr8082.m
Sample Info : 1268-1000c
Lab ID : 1268-1000c
Inj Date : 25-JUL-2001 01:29
Operator : SK *h071261*
Cpnd Sublist: AR12680

Inst ID : PESTGCS.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268	(M) 17.380	17.380	0.000	52983	1000.000	1000.000
(2)	18.787	18.787	0.000	64143	1000.000	1000.000
(3)	21.123	21.123	0.000	200186	1000.000	1000.000
(4)	21.327	21.327	0.000	207814	1000.000	1000.000
(5)	22.580	22.580	0.000	163754	1000.000	1000.000
(6)	23.083	23.083	0.000	49157	1000.000	1000.000
(7)	23.497	23.497	0.000	68029	1000.000	1000.000
(8)	25.013	25.013	0.000	450457	1000.000	1000.000

Average of peak concentrations:

1000.00

COMMENTS:

M - Compound response manually integrated.

GC ORGANICS SINGLE POINT CALIBRATION SUMMARY

Instrument ID: PESTGCS.i Column ID: DB-5 Confirmatory Column

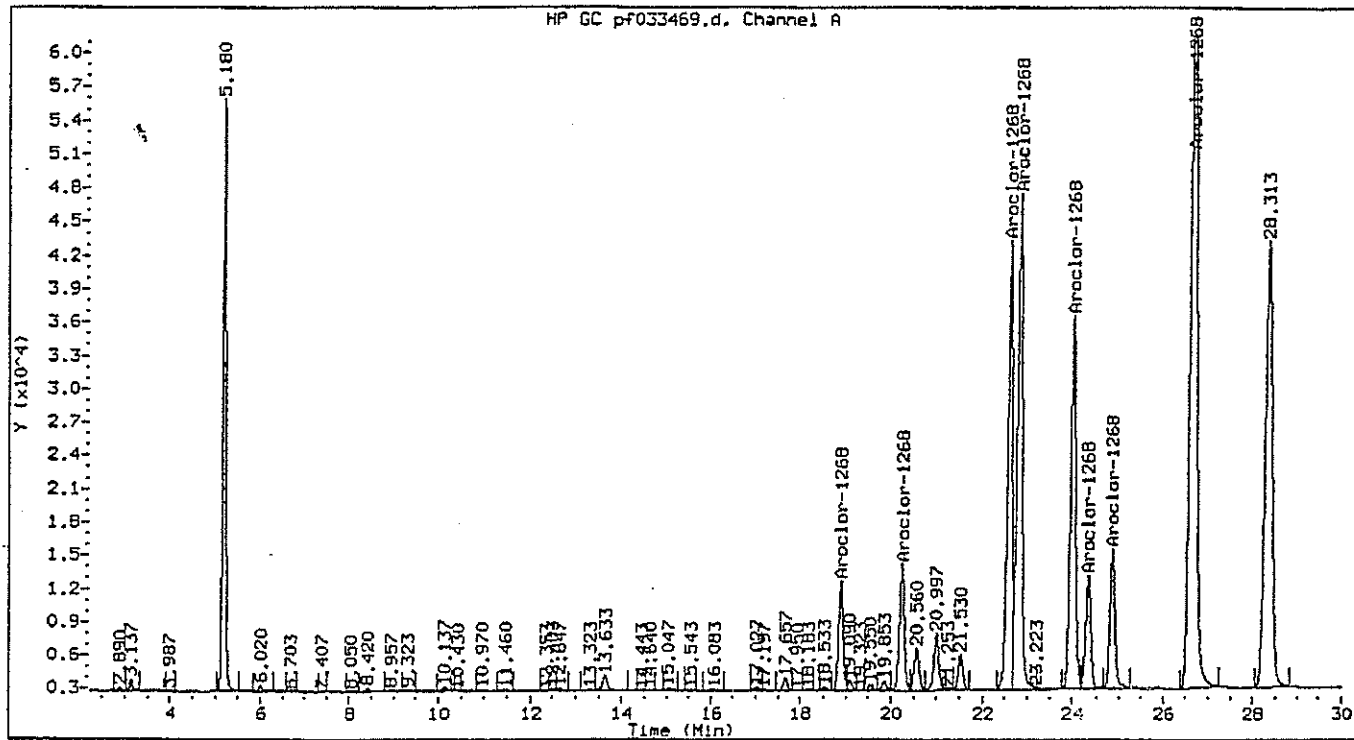
Midpoint Calibration File:

/chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033469.d

Compound	Midpoint Standard Response Factor
Aroclor-1268	71.72
2	85.61
3	299.66
4	343.71
5	252.28
6	76.90
7	101.96
8	685.85

Comments:

+ = Multi-component peak not used in calibration of compound.



```
Method       : /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/Pf8082.m
Sample Info  : 1268-1000c
Lab ID       : 1268-1000c
Inst ID      : PESTGC5.i
Inj Date     : 25-JUL-2001 01:29
Dil Factor    : 1
Operator      : SK [Signature]
Sample Matrix : SOIL
Cpnd Sublist: AR12680
Sample Type   : CALIB 3
```

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1268	18.880	18.880	0.000	71725	1000.000	1000.000
(2)	20.230	20.230	0.000	85614	1000.000	1000.000
(3)	22.577	22.577	0.000	299664	1000.000	1000.000
(4)	22.803	22.803	0.000	343711	1000.000	1000.000
(5)	23.990	23.990	0.000	252277	1000.000	1000.000
(6)	24.323	24.323	0.000	76897	1000.000	1000.000
(7)	24.860	24.860	0.000	101962	1000.000	1000.000
(8)	26.637	26.637	0.000	685846	1000.000	1000.000

Average of peak concentrations:

1000.00

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/pr033552.d
Method: /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m

Sample Information: 1016/1260-1000d
Injection Date: 27-JUL-2001 11:32

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.453	1000	971.52	2.85
Aroclor-1016	2	6.733	1000	948.38	5.16
Aroclor-1016	3	7.727	1000	954.21	4.58
Aroclor-1016	4	7.970	1000	964.15	3.59
Aroclor-1016	5	8.547	1000	949.82	5.02
Aroclor-1016	6	9.290	1000	898.81	10.12
Aroclor-1016	7	10.337	1000	958.13	4.19
Aroclor-1016	8	10.820	1000	992.29	0.77

Aroclor-1260	1	15.410	1000	875.36	12.46
Aroclor-1260	2	17.240	1000	828.68	17.13
Aroclor-1260	3	17.393	1000	1000.61	0.06
Aroclor-1260	4	17.667	1000	932.83	6.72
Aroclor-1260	5	18.927	1000	974.34	2.57
Aroclor-1260	6	19.530	1000	945.14	5.49
Aroclor-1260	7	21.493	1000	930.31	6.97
Aroclor-1260	8	23.510	1000	1052.09	5.21

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.827	100	110.10	10.10
Decachlorobiphenyl	26.560	100	93.58	6.42

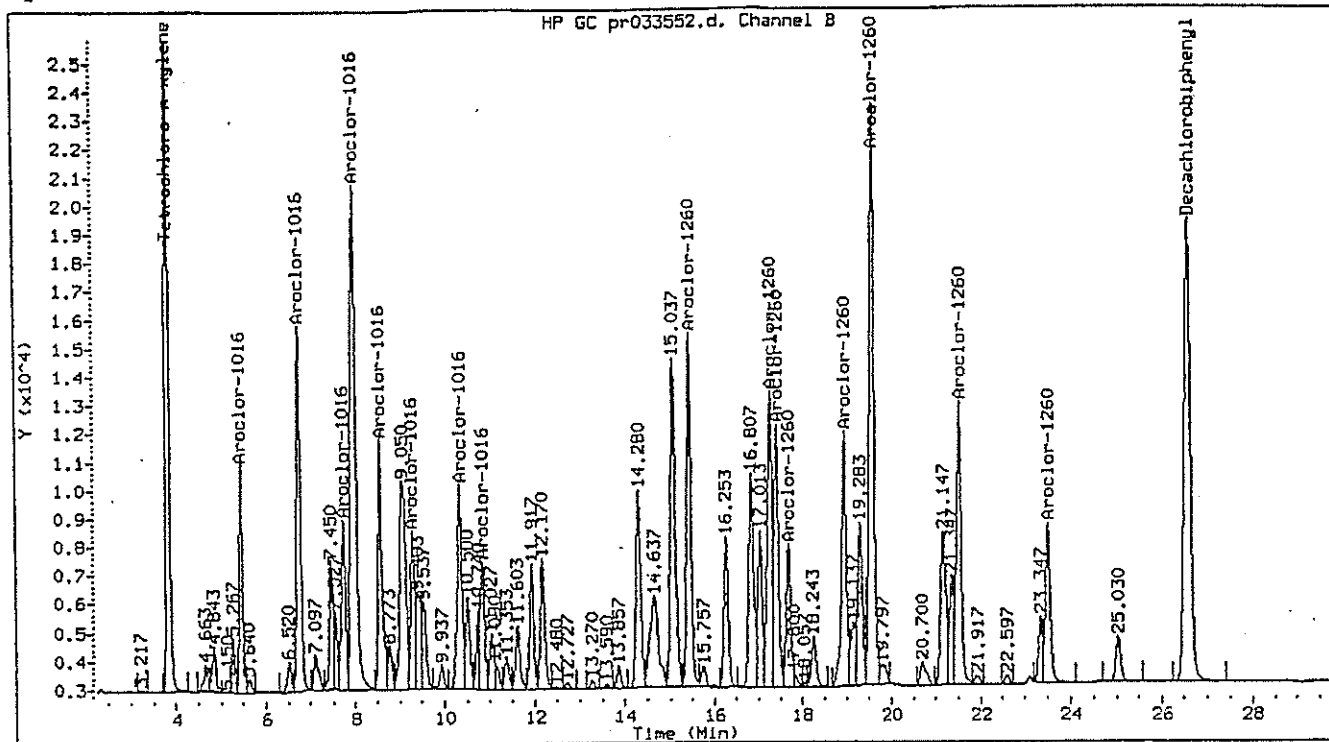
GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGC5.i

Midpoint Calibration File: /chem1/PESTGC5.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033460.d
Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/pr033552.d
Injection Date: 27-JUL-2001 11:32

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.457	(5.387 - 5.527)	5.453	
	6.737	(6.667 - 6.807)	6.733	
	7.730	(7.660 - 7.800)	7.727	
	7.970	(7.900 - 8.040)	7.970	
	8.547	(8.477 - 8.617)	8.547	
	9.290	(9.220 - 9.360)	9.290	
	10.337	(10.267 - 10.407)	10.337	
	10.823	(10.753 - 10.893)	10.820	
Aroclor-1260	15.413	(15.343 - 15.483)	15.410	
	17.240	(17.170 - 17.310)	17.240	
	17.390	(17.320 - 17.460)	17.393	
	17.667	(17.597 - 17.737)	17.667	
	18.927	(18.857 - 18.997)	18.927	
	19.527	(19.457 - 19.597)	19.530	
	21.493	(21.423 - 21.563)	21.493	
	23.510	(23.440 - 23.580)	23.510	
Tetrachloro-m-xylene	3.830	(3.780 - 3.880)	3.827	
Decachlorobiphenyl	26.560	(26.460 - 26.660)	26.560	



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 1016/1260-1000d
Lab ID : 1016/1260-1000d
Inj Date : 27-JUL-2001 11:32
Operator : SK [signature]
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M) 5.453	5.453	0.000	39642	971.525	971.525
(2)	6.733	6.733	0.000	79730	948.377	948.377
(3)	7.727	7.727	0.000	38075	954.210	954.210
(4)	7.970	7.970	0.000	146996	964.148	964.148
(5)	8.547	8.547	0.000	58180	949.817	949.817
(6)	9.290	9.290	0.000	33434	898.815	898.815
(7)	10.337	10.337	0.000	51044	958.133	958.133
(8)	10.820	10.820	0.000	29382	992.292	992.292
Average of peak concentrations:					950.00	

Aroclor-1260	(M) 15.410	15.410	0.000	87667	875.364	875.364
(2)	17.240	17.240	0.000	78057	828.684	828.684
(3)	17.393	17.393	0.000	65831	1000.609	1000.609
(4)	17.667	17.667	0.000	36663	932.833	932.833
(5)	18.927	18.927	0.000	66760	974.344	974.344
(6)	19.530	19.530	0.000	145890	945.139	945.139

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	21.493	21.493	0.000	71406	930.308	930.308
(8)	23.510	23.510	0.000	42351	1052.093	1052.093

Average of peak concentrations:

940.00

Tetrachloro-m-xylene	3.827	3.827	0.000	186723	110.104	110.104
Decachlorobiphenyl	(M) 26.560	26.560	0.000	149998	93.582	93.582

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/pf033552.d
 Method: /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m

Sample Information: 1016/1260-1000d

Injection Date: 27-JUL-2001 11:32

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	6.143	1000	924.93	7.51
Aroclor-1016	2	7.417	1000	862.06	13.79
Aroclor-1016	3	8.057	1000	934.41	6.56
Aroclor-1016	4	8.973	1000	936.67	6.33
Aroclor-1016	5	10.363	1000	914.59	8.54
Aroclor-1016	6	10.510	1000	897.47	10.25
Aroclor-1016	7	10.983	1000	920.55	7.94
Aroclor-1016	8	11.470	1000	920.84	7.92

Aroclor-1260	1	16.040	1000	847.13	15.29<-
Aroclor-1260	2	17.037	1000	866.05	13.39
Aroclor-1260	3	18.193	1000	790.21	20.98<-
Aroclor-1260	4	18.893	1000	957.22	4.28
Aroclor-1260	5	19.867	1000	938.68	6.13
Aroclor-1260	6	22.247	1000	895.66	10.43
Aroclor-1260	7	22.823	1000	1051.19	5.12
Aroclor-1260	8	24.873	1000	1050.66	5.07

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	5.190	100	109.57	9.57
Decachlorobiphenyl	28.333	100	93.94	6.06

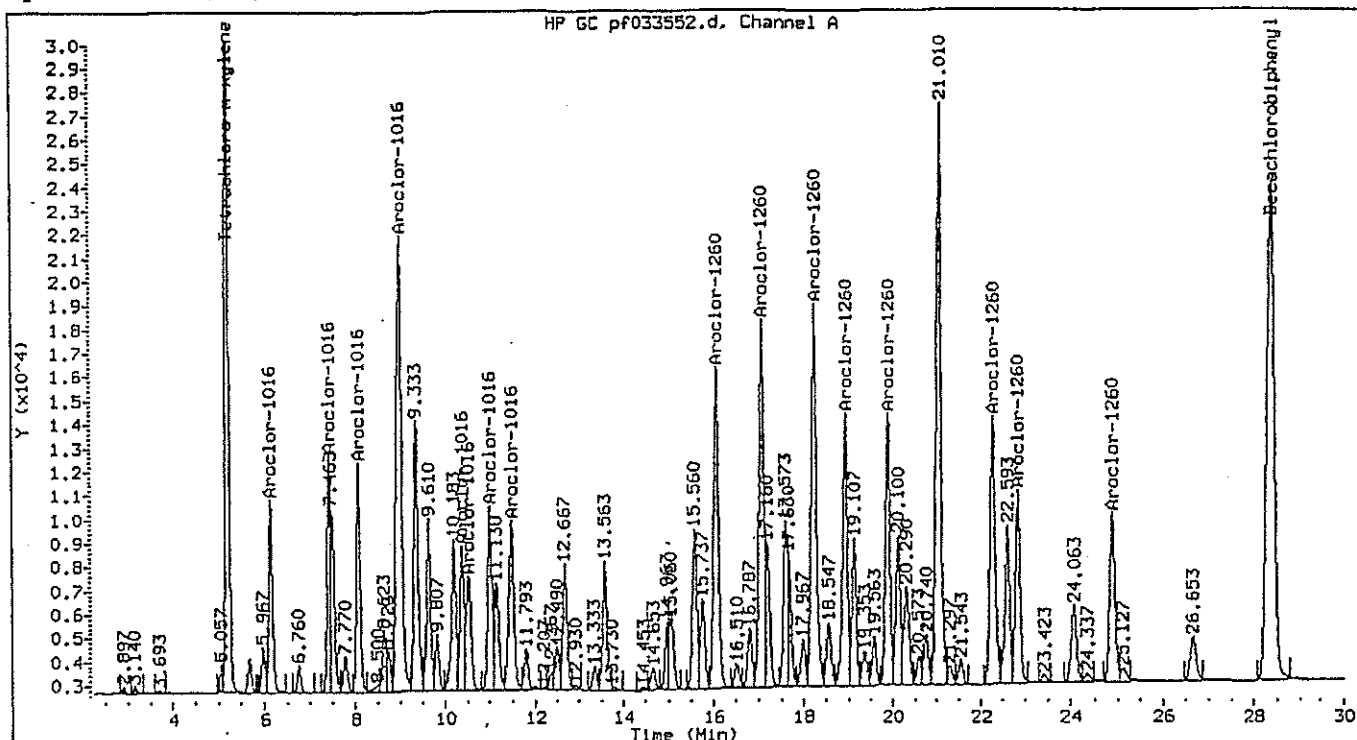
GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.i

Midpoint Calibration File: /chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033460.d
Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.i/8082/front/Jul01/07-27-01/27jul01d.b/pf033552.d
Injection Date: 27-JUL-2001 11:32

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	6.147	(6.077 - 6.217)	6.143	
	7.420	(7.350 - 7.490)	7.417	
	8.060	(7.990 - 8.130)	8.057	
	8.977	(8.907 - 9.047)	8.973	
	10.367	(10.297 - 10.437)	10.363	
	10.513	(10.443 - 10.583)	10.510	
	10.987	(10.917 - 11.057)	10.983	
	11.470	(11.400 - 11.540)	11.470	
Aroclor-1260	16.040	(15.970 - 16.110)	16.040	
	17.037	(16.967 - 17.107)	17.037	
	18.193	(18.123 - 18.263)	18.193	
	18.893	(18.823 - 18.963)	18.893	
	19.867	(19.797 - 19.937)	19.867	
	22.247	(22.177 - 22.317)	22.247	
	22.823	(22.753 - 22.893)	22.823	
	24.877	(24.807 - 24.947)	24.873	
Tetrachloro-m-xylene	5.193	(5.143 - 5.243)	5.190	
Decachlorobiphenyl	28.330	(28.230 - 28.430)	28.333	



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : 1016/1260-1000d
Lab ID : 1016/1260-1000d
Inj Date : 27-JUL-2001 11:32
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/kg)

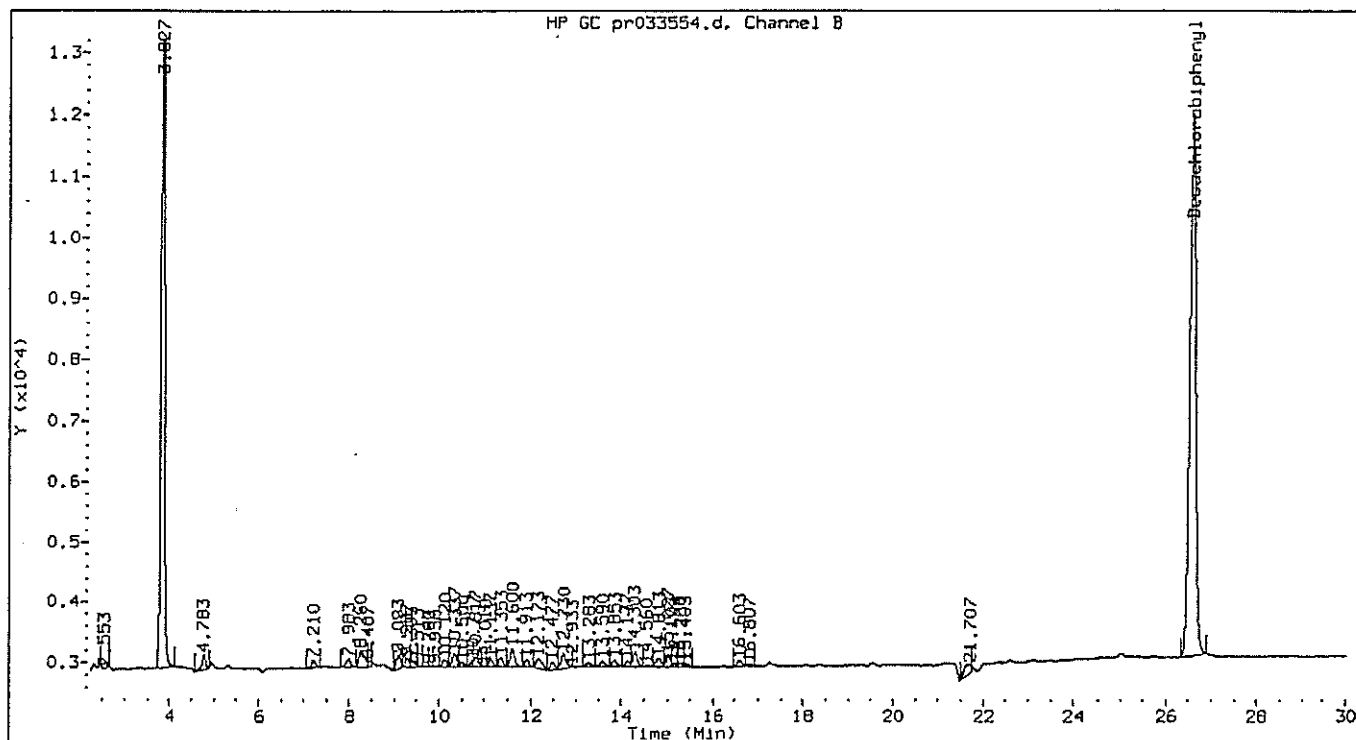
Aroclor-1016	(M)	6.143	6.143	0.000	44098	924.928	924.928
(2)		7.417	7.417	0.000	53011	862.061	862.061
(3)		8.057	8.057	0.000	56619	934.412	934.412
(4)		8.973	8.973	0.000	165264	936.670	936.670
(5)		10.363	10.363	0.000	38382	914.591	914.591
(6)		10.510	10.510	0.000	36341	897.474	897.474
(7)		10.983	10.983	0.000	50336	920.553	920.553
(8)		11.470	11.470	0.000	57951	920.838	920.838
Average of peak concentrations:							910.00

Aroclor-1260	(M)	16.040	16.040	0.000	100888	847.133	847.133
(2)		17.037	17.037	0.000	114733	866.051	866.051
(3)		18.193	18.193	0.000	132074	790.205	790.205
(4)		18.893	18.893	0.000	85103	957.217	957.217
(5)		19.867	19.867	0.000	81430	938.683	938.683
(6)		22.247	22.247	0.000	92998	895.657	895.657

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	22.823	22.823	0.000	60588	1051.193	1051.193
(8)	24.873	24.873	0.000	55259	1050.659	1050.659
Average of peak concentrations:						920.00
-----	-----	-----	-----	-----	-----	-----
Tetrachloro-m-xylene (M)	5.190	5.190	0.000	200597	109.571	109.571
-----	-----	-----	-----	-----	-----	-----
Decachlorobiphenyl	28.333	28.333	0.000	224663	93.938	93.938
-----	-----	-----	-----	-----	-----	-----

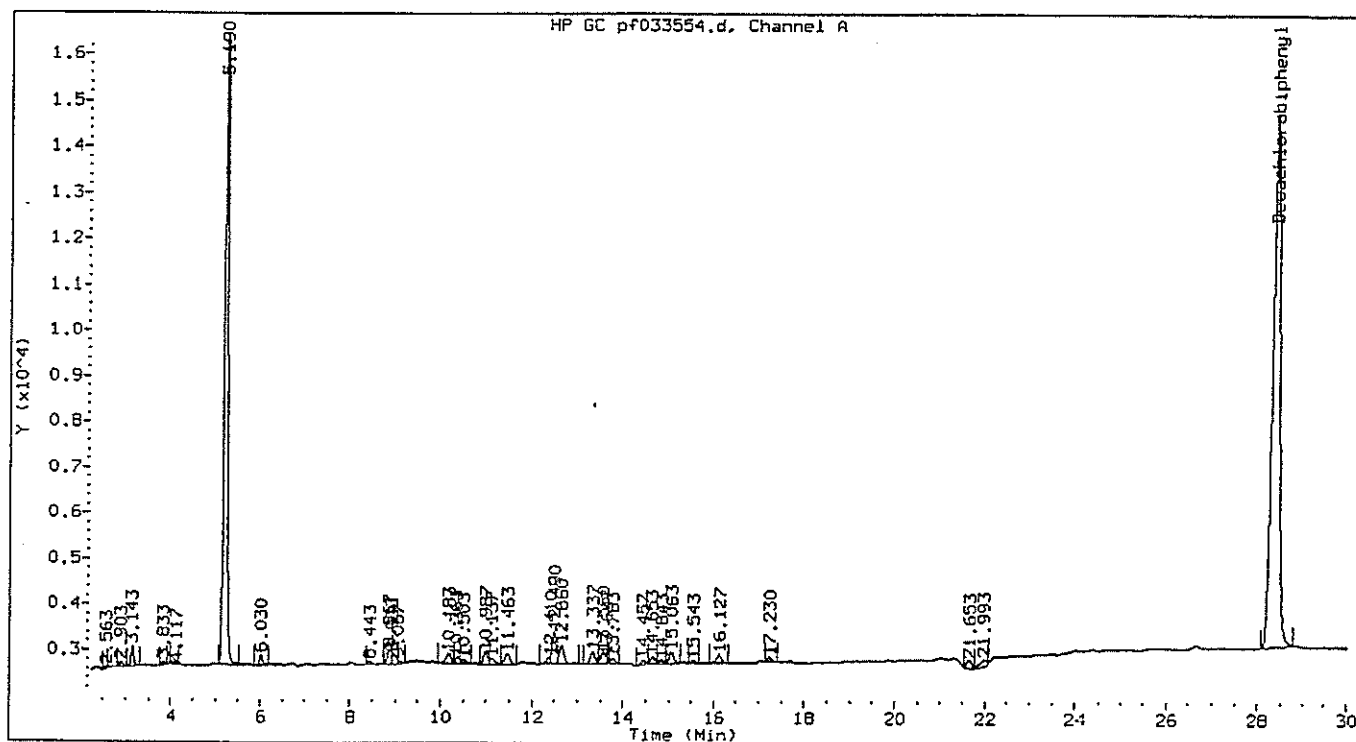
COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : SP204A;15;10;;
Lab ID : SP204A
Inj Date : 27-JUL-2001 12:37
Operator : SK *Aug 9/01*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.557	26.560	0.003	81683	50.961	33.974

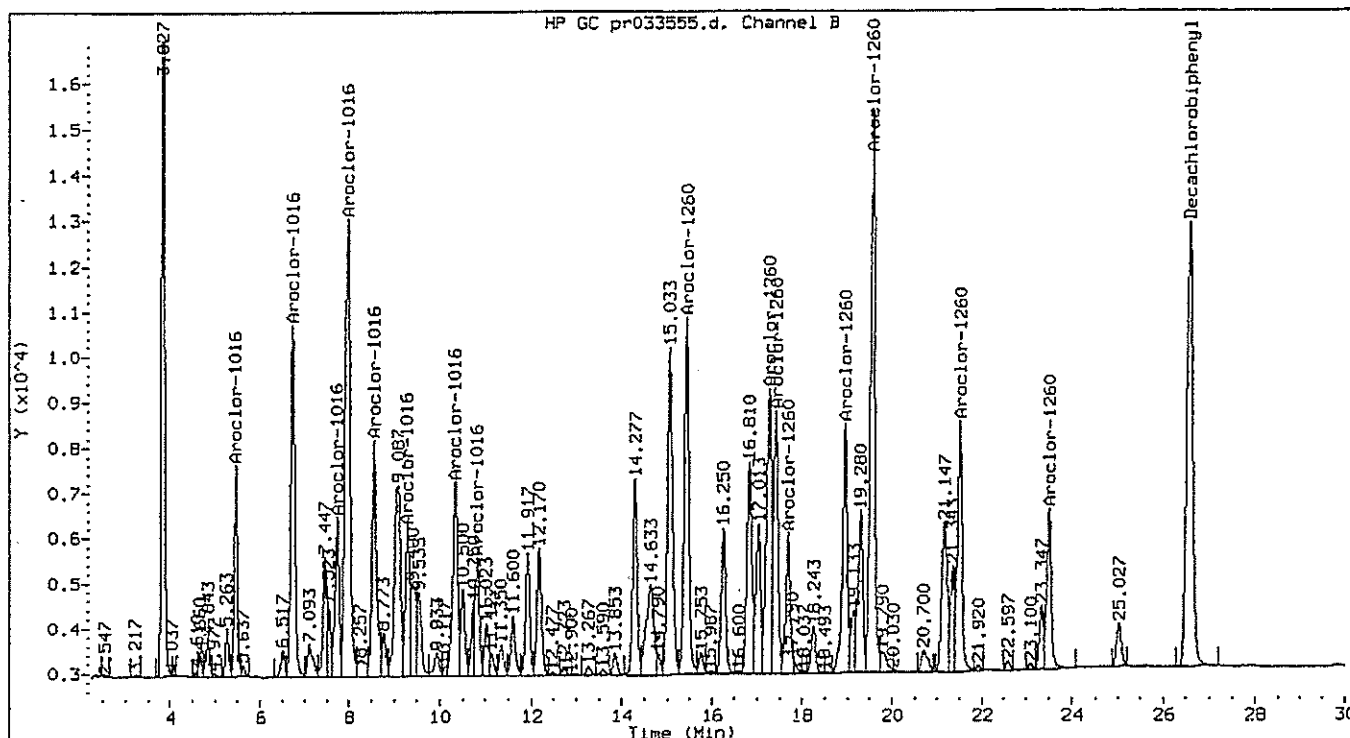


Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : SP204A;15;10;;
Lab ID : SP204A
Inj Date : 27-JUL-2001 12:37
Operator : SK [signature]
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BLANK

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M) 28.333	28.333	0.000	122389	51.174	34.116

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGCS.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 7771BS;15;10;;
Lab ID : 7771BS
Inj Date : 27-JUL-2001 13:10
Operator : SK [signature]
Cpnd Sublist: PCB8082+
Inst ID : PESTGCS.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BS

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/kg)
Aroclor-1016	(M)	5.453	5.453	0.000	23050	564.897	376.598
(2)		6.730	6.733	0.003	48342	575.021	383.347
(3)		7.727	7.727	0.000	22933	574.731	383.154
(4)		7.967	7.970	0.003	84632	555.102	370.068
(5)		8.543	8.547	0.003	36177	590.607	393.738
(6)		9.287	9.290	0.003	21172	569.172	379.448
(7)		10.337	10.337	0.000	31019	582.249	388.166
(8)		10.817	10.820	0.003	17619	595.031	396.687
Average of peak concentrations:							380.00
Aroclor-1260	(M)	15.410	15.410	0.000	56219	561.352	374.235
(2)		17.240	17.240	0.000	47958	509.141	339.428
(3)		17.387	17.393	0.007	41495	630.710	420.473
(4)		17.663	17.667	0.003	22580	574.513	383.009
(5)		18.927	18.927	0.000	41253	602.076	401.384
(6)		19.527	19.530	0.003	90566	586.726	391.151

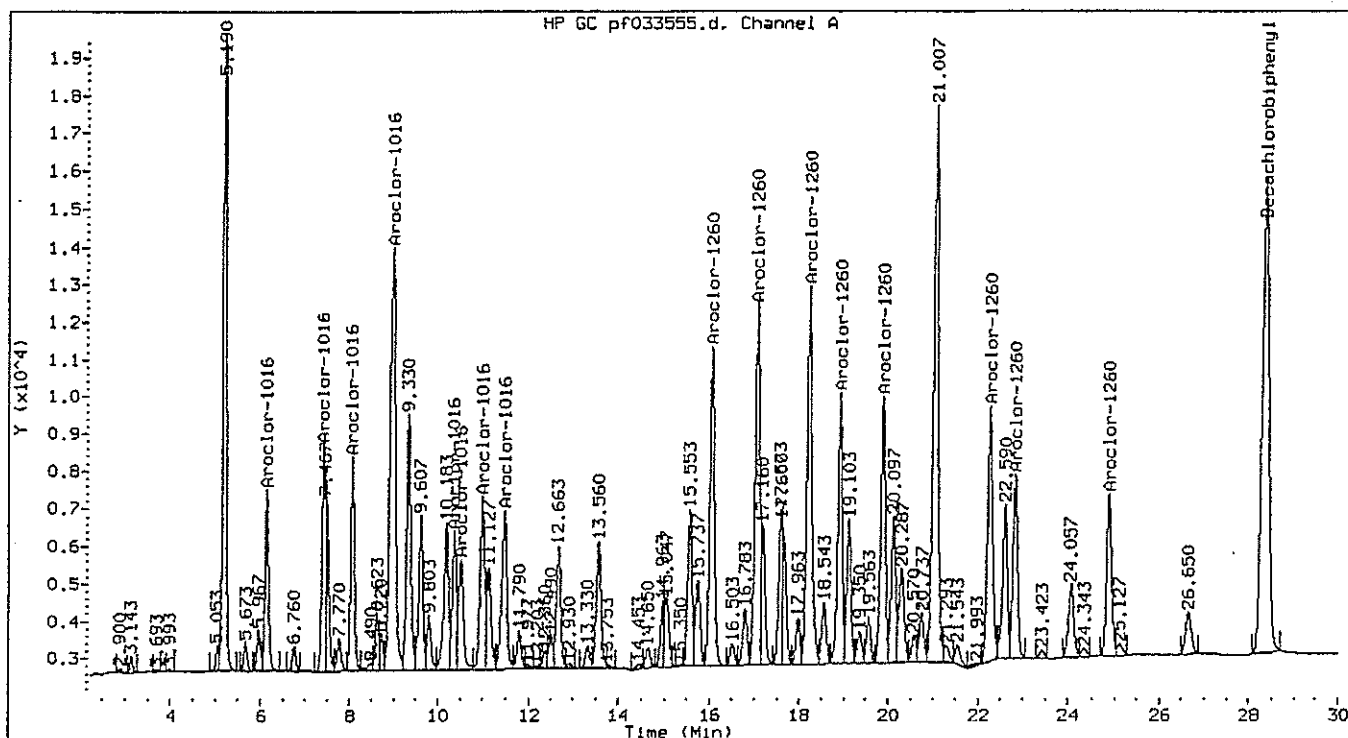
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
*****	*****	*****	*****	*****	*****	*****
(7)	21.490	21.493	0.003	40362	525.853	350.569
(8)	23.507	23.510	0.003	26105	648.506	432.337

Average of peak concentrations: 390.00

 Decachlorobiphenyl (M) 26.560 26.560 0.000 90599 56.524 37.683

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : 7771BS;15;10;;
Lab ID : 7771BS
Inj Date : 27-JUL-2001 13:10
Operator : SK *210810*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: BS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)

Aroclor-1016	(M)	6.140	6.143	0.003	25724	539.545	359.696
(2)		7.413	7.417	0.003	33468	544.254	362.836
(3)		8.053	8.057	0.003	33474	552.438	368.292
(4)		8.973	8.973	0.000	100205	567.934	378.623
(5)		10.360	10.363	0.003	23391	557.376	371.584
(6)		10.510	10.510	0.000	22670	559.856	373.238
(7)		10.983	10.983	0.000	31041	567.683	378.455
(8)		11.467	11.470	0.003	34462	547.599	365.066

Average of peak concentrations:

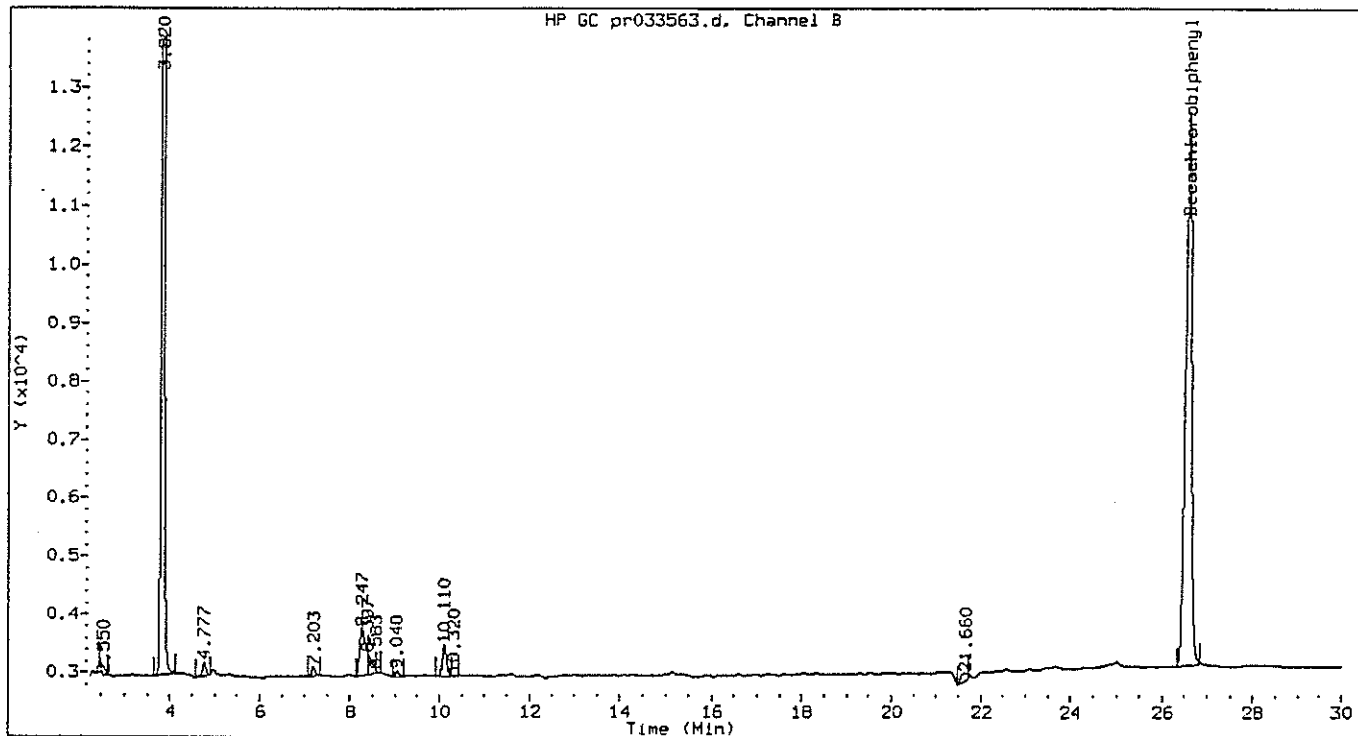
370.00

Aroclor-1260	(M)	16.040	16.040	0.000	63056	529.466	352.978
(2)		17.033	17.037	0.003	72770	549.297	366.198
(3)		18.190	18.193	0.003	81154	485.548	323.699
(4)		18.890	18.893	0.003	53463	601.339	400.892
(5)		19.863	19.867	0.003	50075	577.239	384.826
(6)		22.247	22.247	0.000	55943	538.783	359.189

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	22.820	22.823	0.003	36451	632.420	421.613
(8)	24.873	24.873	0.000	33682	640.408	426.939
Average of peak concentrations:						380.00
-----	-----	-----	-----	-----	-----	-----
Decachlorobiphenyl	28.330	28.333	0.003	133966	56.015	37.343
-----	-----	-----	-----	-----	-----	-----

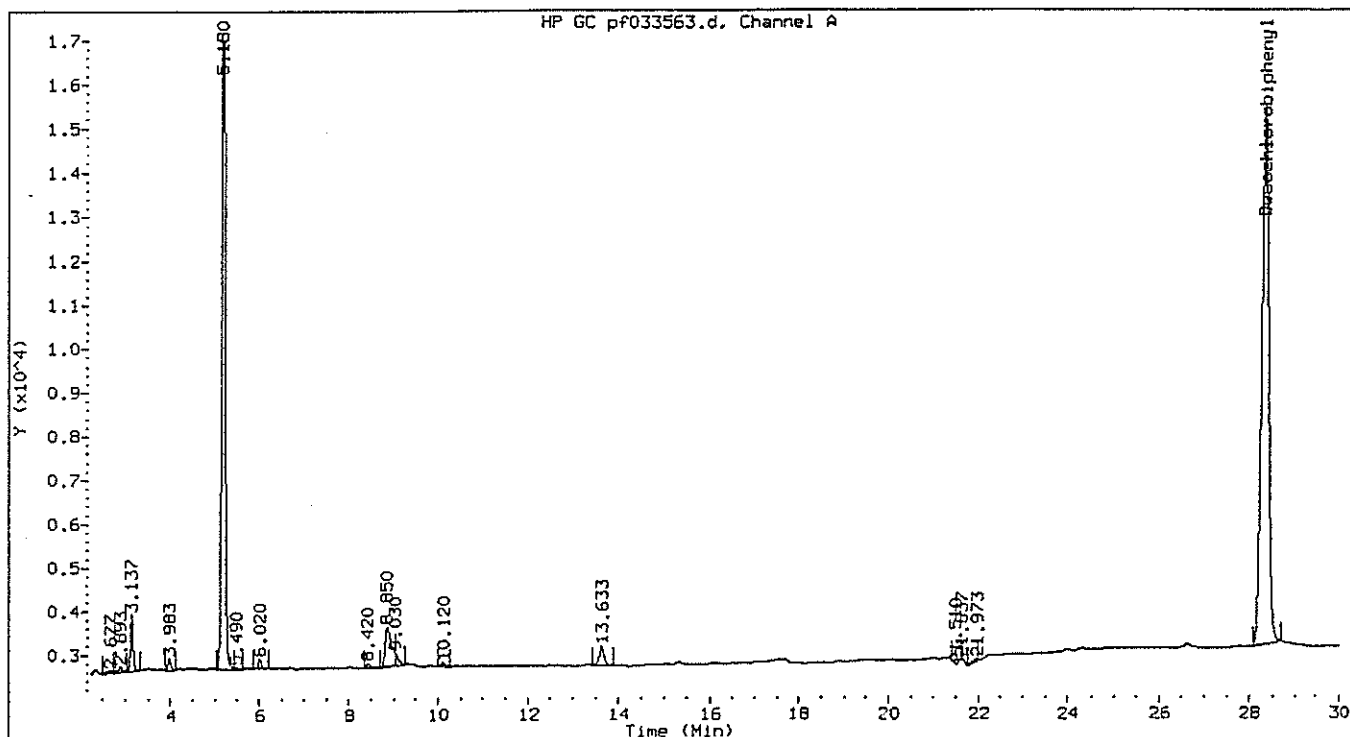
COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
 Sample Info : 289210;15;10;;
 Lab ID : 289210
 Inj Date : 27-JUL-2001 17:31
 Operator : SK
 Cpnd Sublist: PCB8082+
 Inst ID : PESTGC5.i
 Dil Factor : 1
 Sample Matrix : SOIL
 Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.543	26.560	0.017	86626	54.045	43.993

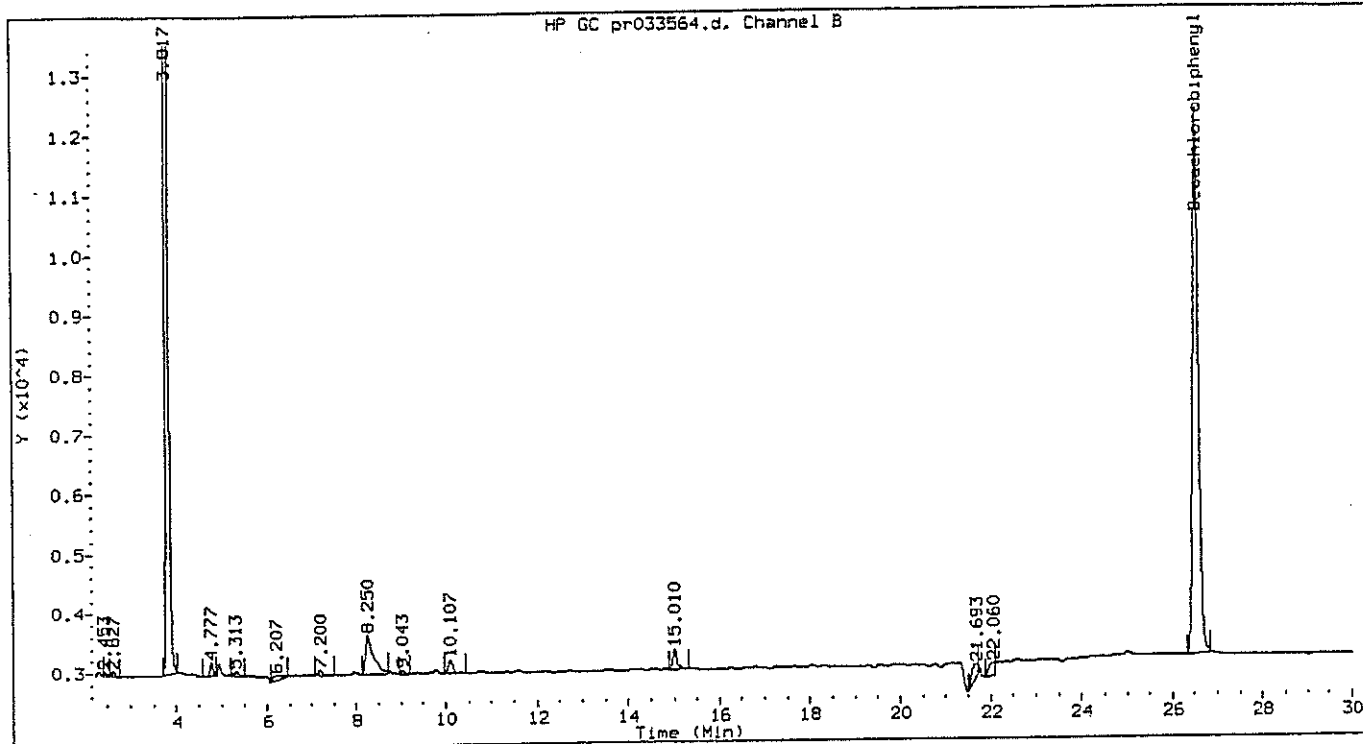


Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : 289210;15;10;;
Lab ID : 289210
Inj Date : 27-JUL-2001 17:31
Operator : SK
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	(M) 28.310	28.333	0.023	129254	54.045	43.993

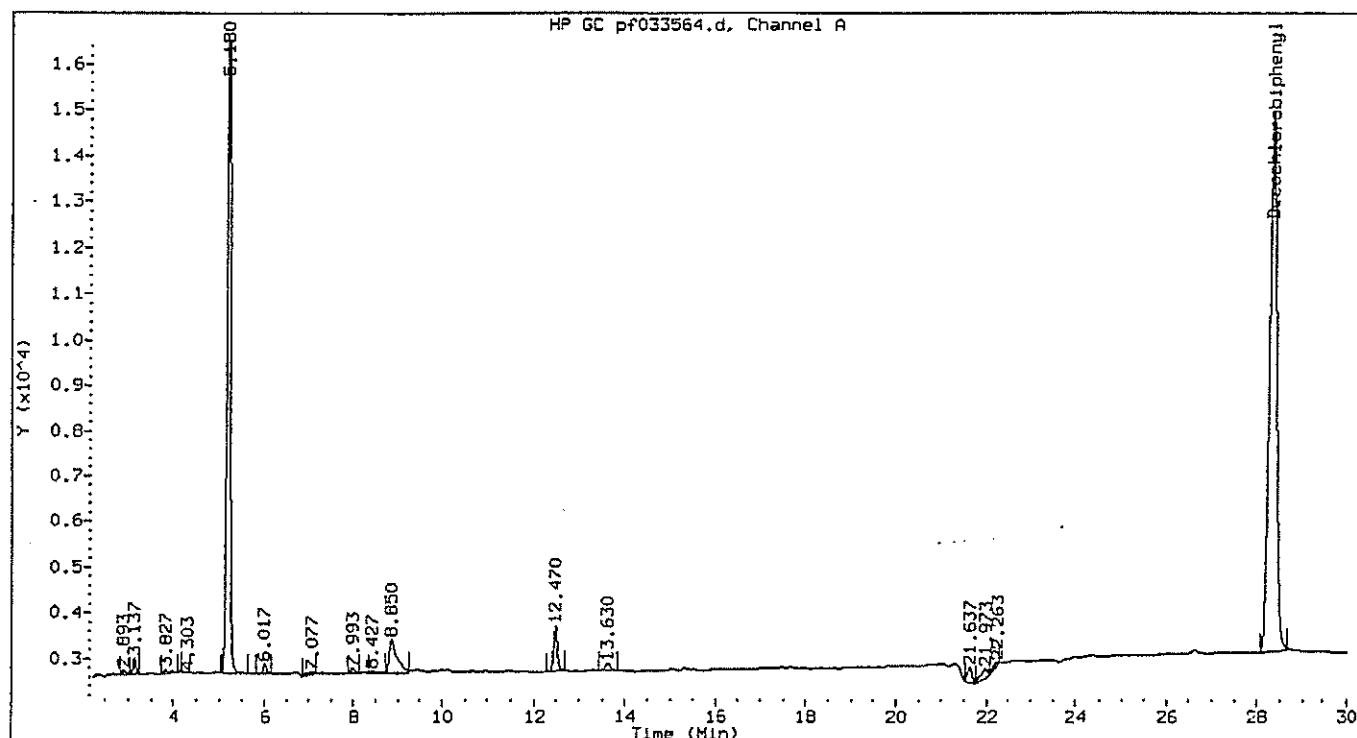
COMMENTS:

M - Compound response manually integrated.



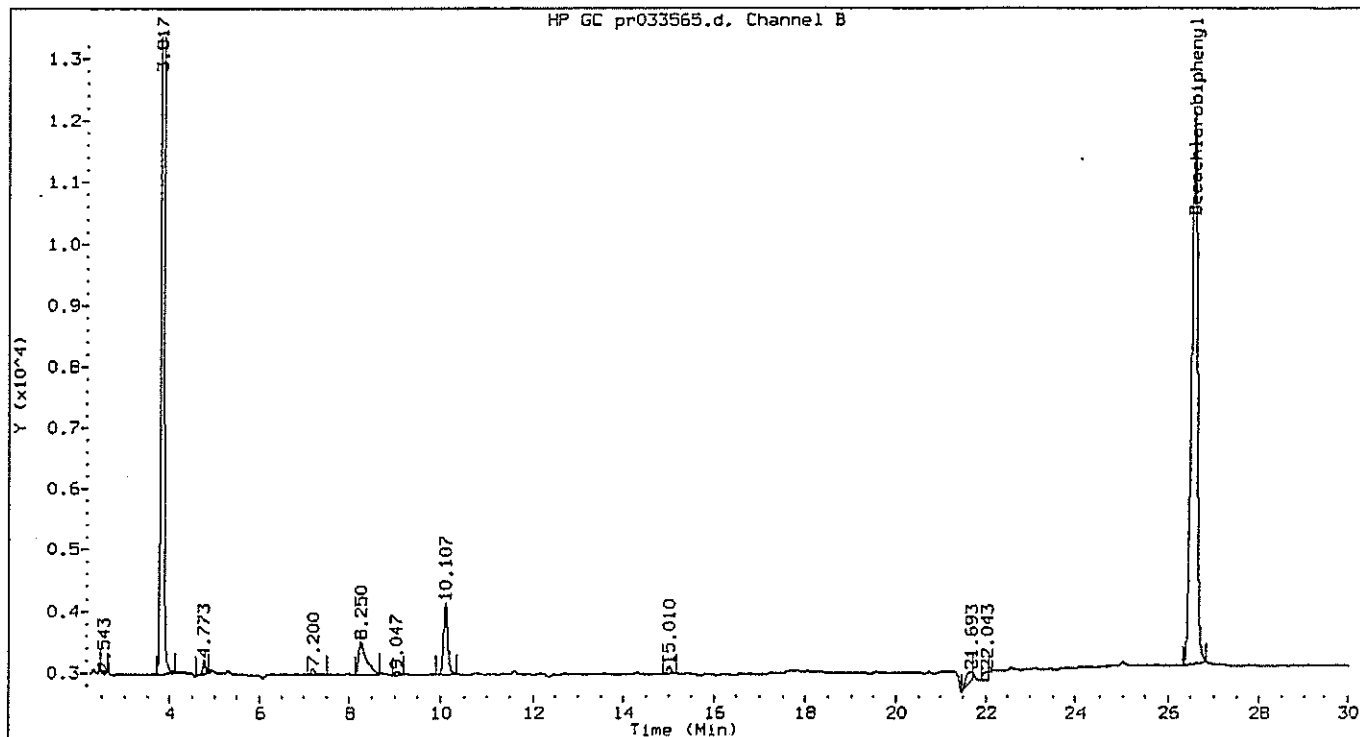
Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 289211;15;10;;
Lab ID : 289211 Inst ID : PESTGC5.i
Inj Date : 27-JUL-2001 18:03 Dil Factor : 1
Operator : SK Sample Matrix : SOIL
Cpnd Sublist: PCB8082+ Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.537	26.560	0.023	83066	51.824	41.081



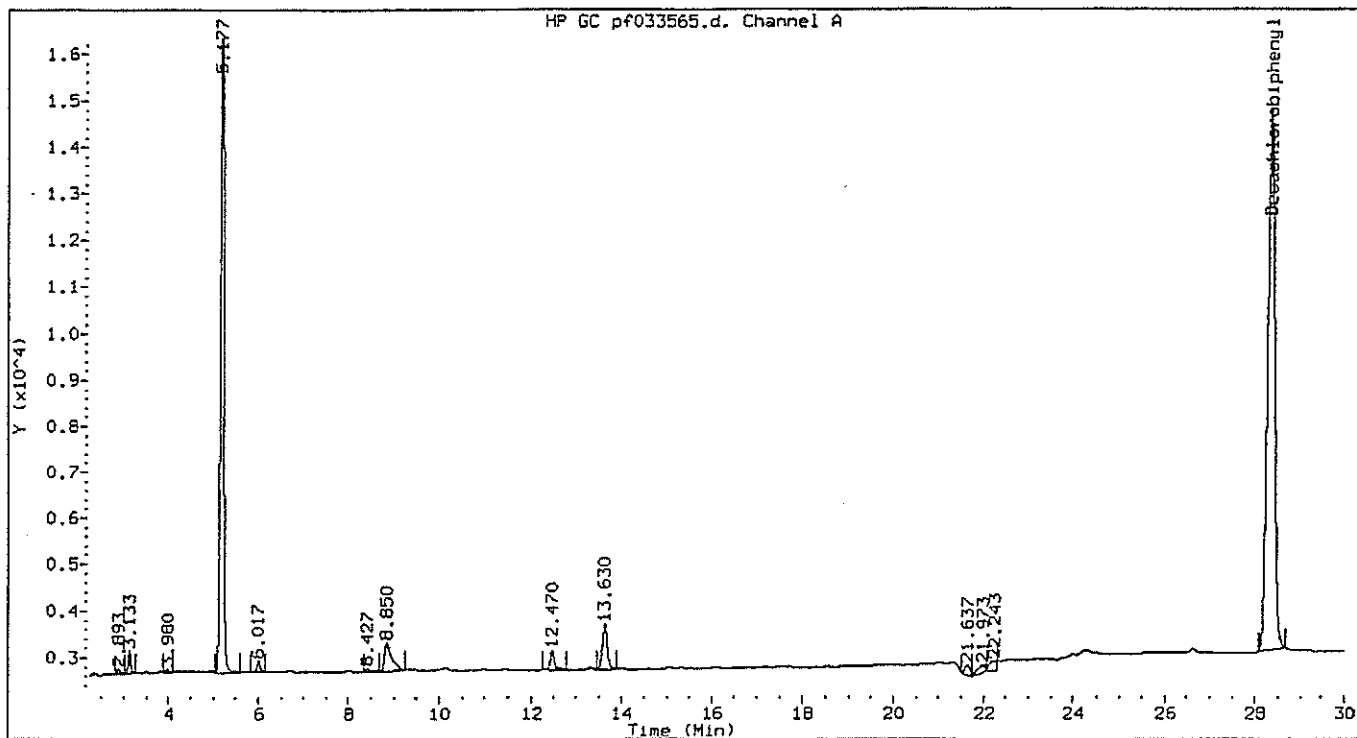
Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : 289211;15;10;;
Lab ID : 289211
Inj Date : 27-JUL-2001 18:03
Operator : SK *SK*
Cpnd Sublist: PCE8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	28.313	28.333	0.020	124273	51.962	41.191



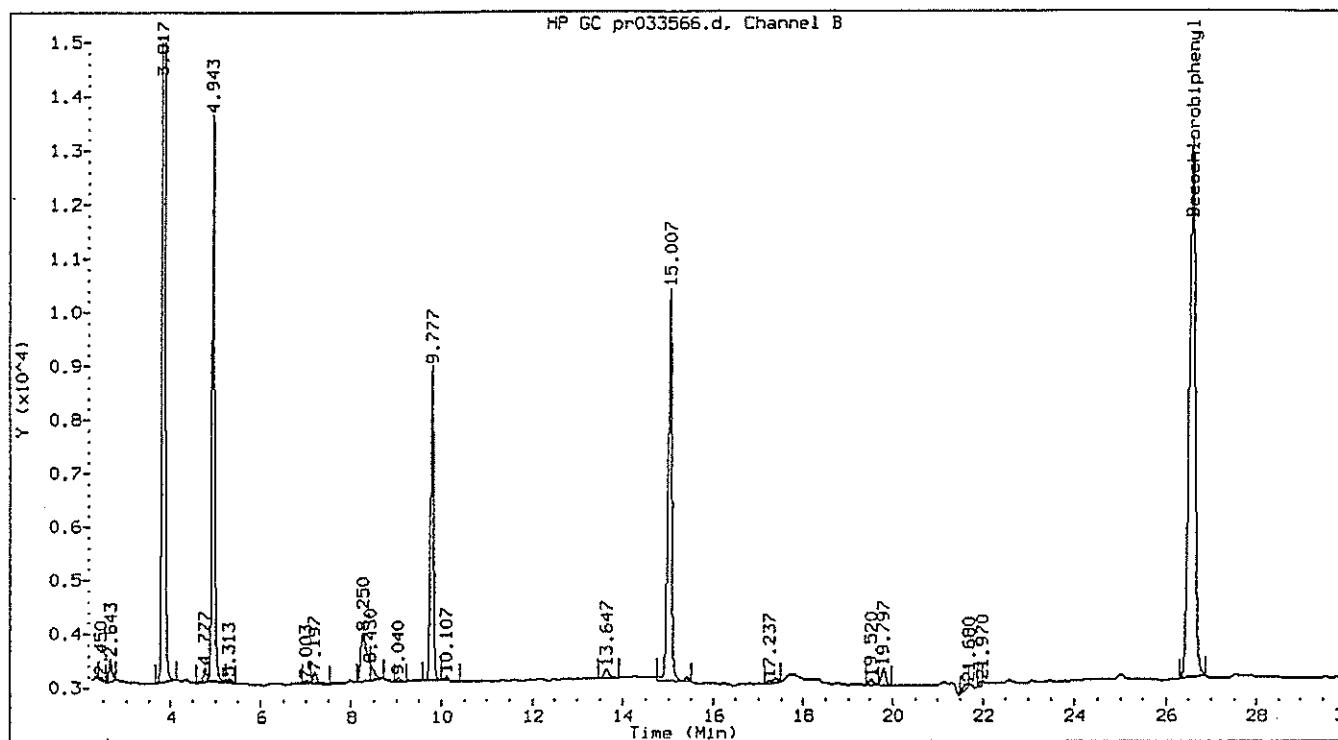
Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 289212;15;10;;
Lab ID : 289212
Inj Date : 27-JUL-2001 18:36
Operator : SK [signature]
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.540	26.560	0.020	82480	51.459	41.633



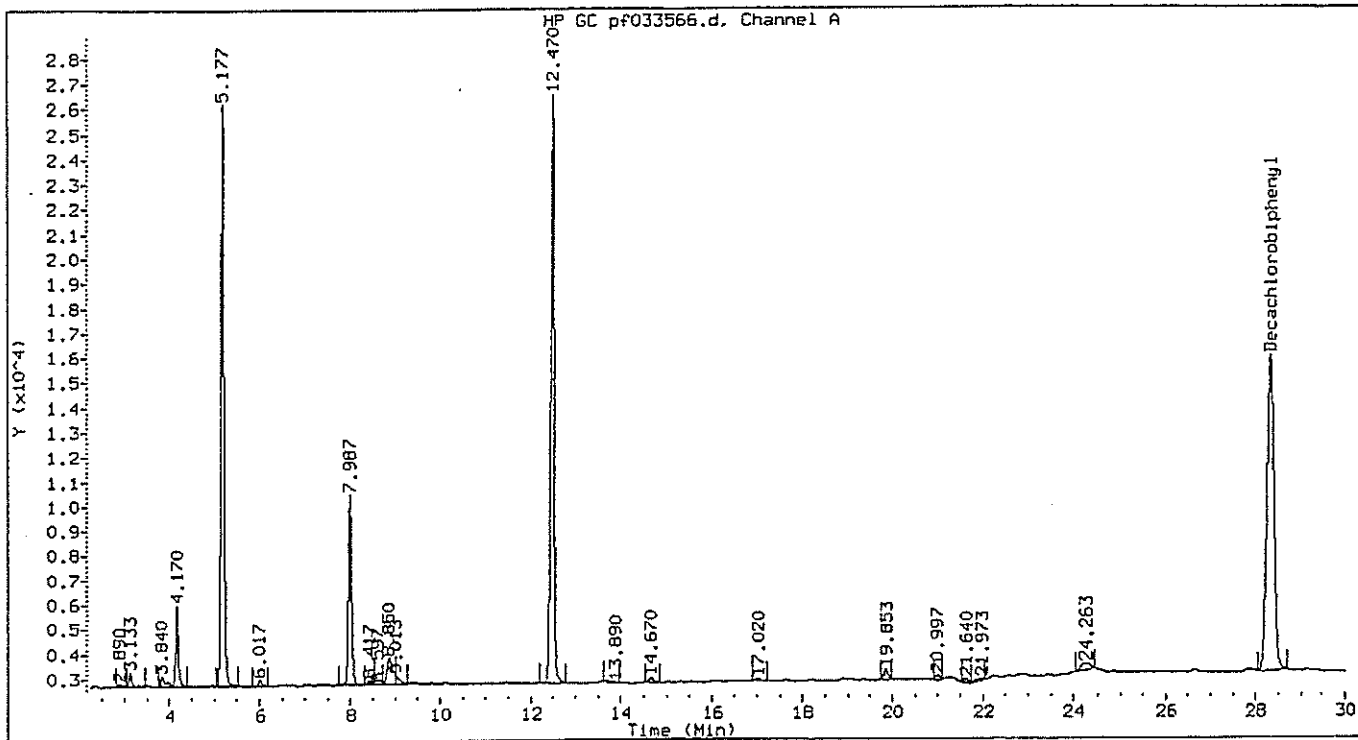
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 Lab ID : 289212
 Inj Date : 27-JUL-2001 18:36
 Operator : SK
 Cpnd Sublist: PCB8082+
 Inst ID : PESTGC5.i
 Dil Factor : 1
 Sample Matrix : SOIL
 Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	28.310	28.333	0.023	123355	51.578	41.730



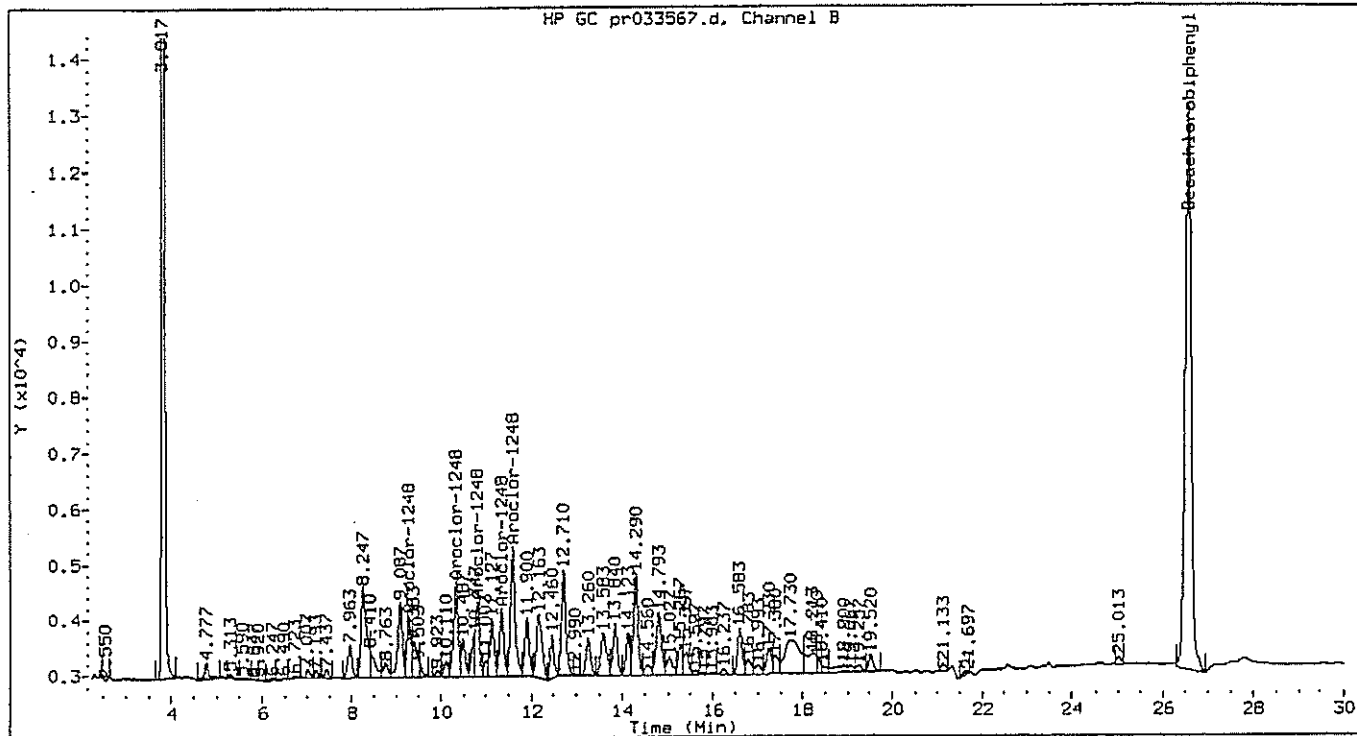
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Method       : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info  : 289213;15;10;;
Lab ID       : 289213                               Inst ID      : PESTGC5.i
Inj Date     : 27-JUL-2001 19:08                     Dil Factor   : 1
Operator     : SK [Signature]                         Sample Matrix : SOIL
Cpnd Sublist: PCB8082+                               Sample Type  : SAMPLE
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Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.540	26.560	0.020	91557	57.122	45.606



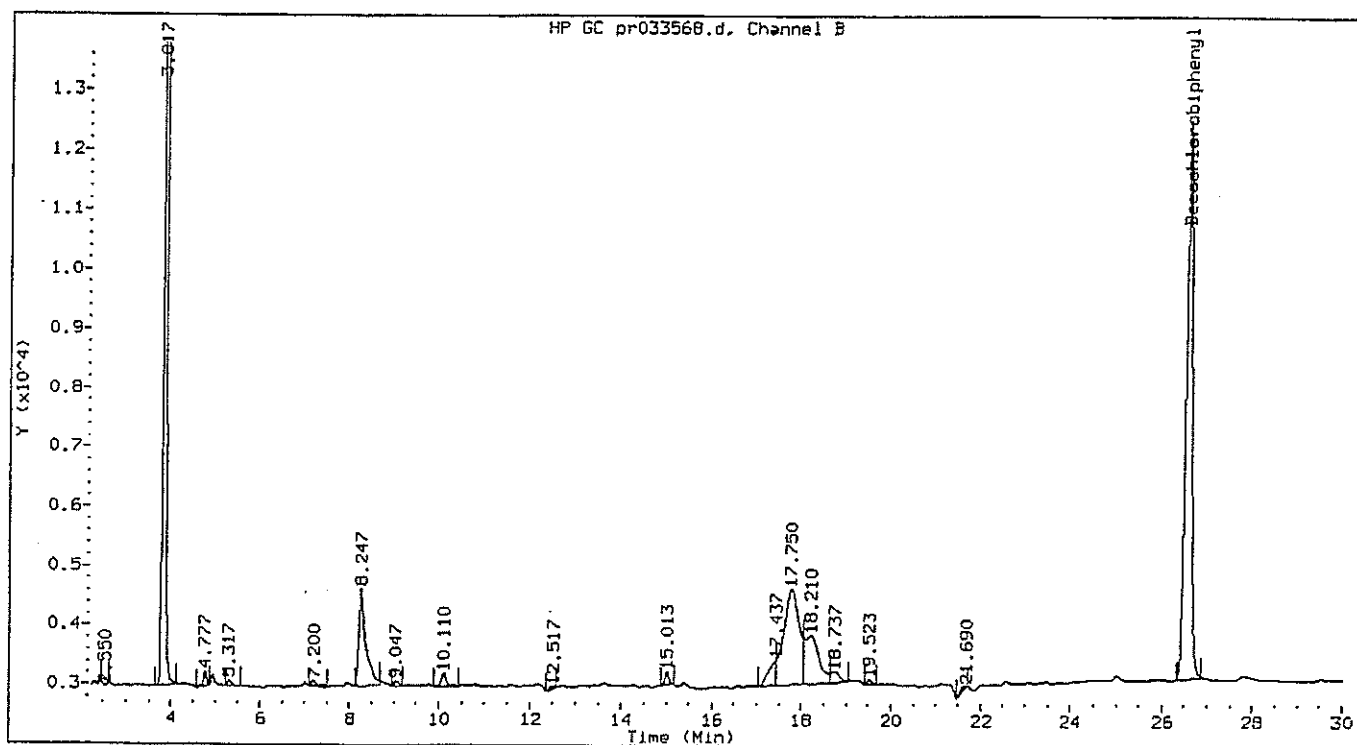
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 Sample Info : 289213;15;10;;
 Lab ID : 289213
 Inj Date : 27-JUL-2001 19:08
 Operator : SK
 Cpnd Sublist: PCB8082+
 Inst ID : PESTGC5.i
 Dil Factor : 1
 Sample Matrix : SOIL
 Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	28.310	28.333	0.023	136977	57.274	45.728



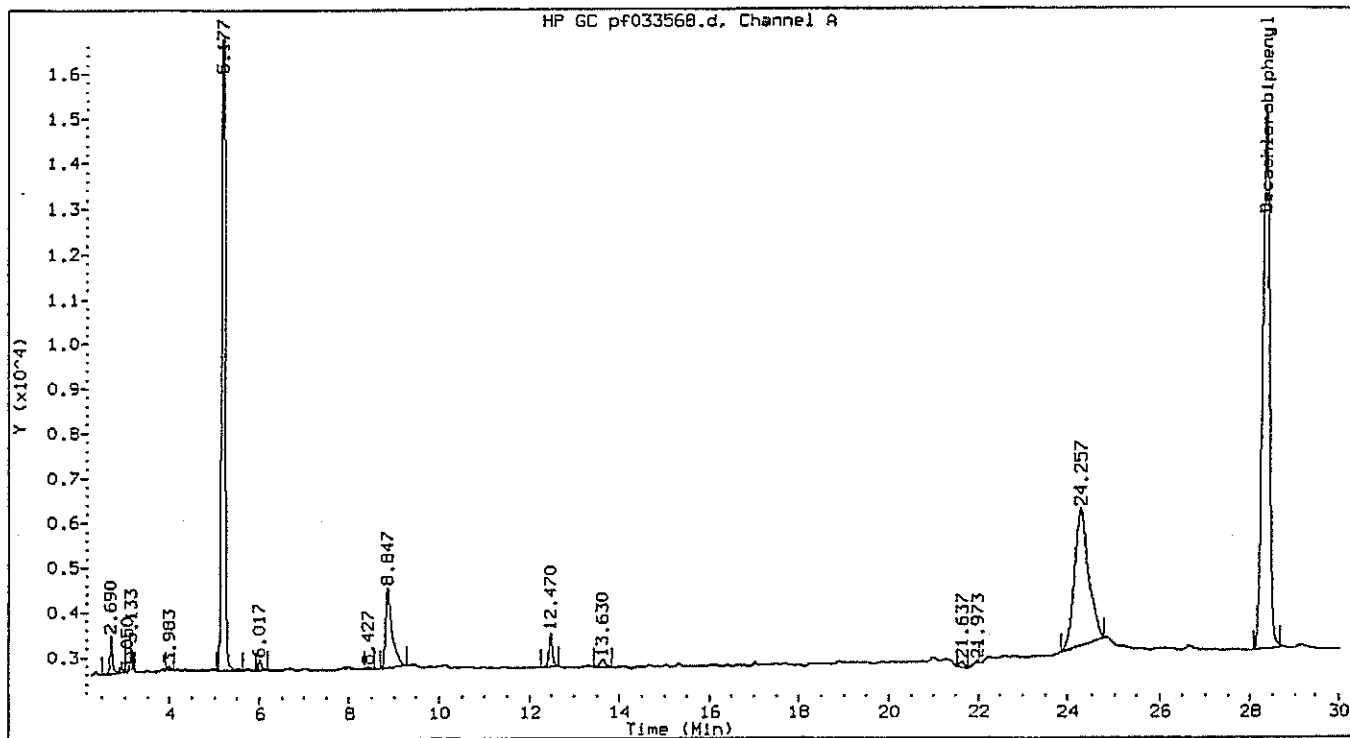
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1248	(M)	7.407				(*)
(2)		8.043				(*)
(3)		9.320				(*)
(4)	10.170	10.170	0.000	9939	169.967	128.763
(5)	10.970	10.970	0.000	10730	165.196	125.149
(6)	11.450	11.453	0.003	14397	163.111	123.569
(7)	12.640	12.640	0.000	21903	220.075	166.724
(8)	13.320	13.323	0.003	16337	198.149	150.113
Average of peak concentrations:						140.00
Decachlorobiphenyl	28.310	28.333	0.023	134763	56.348	42.688

486



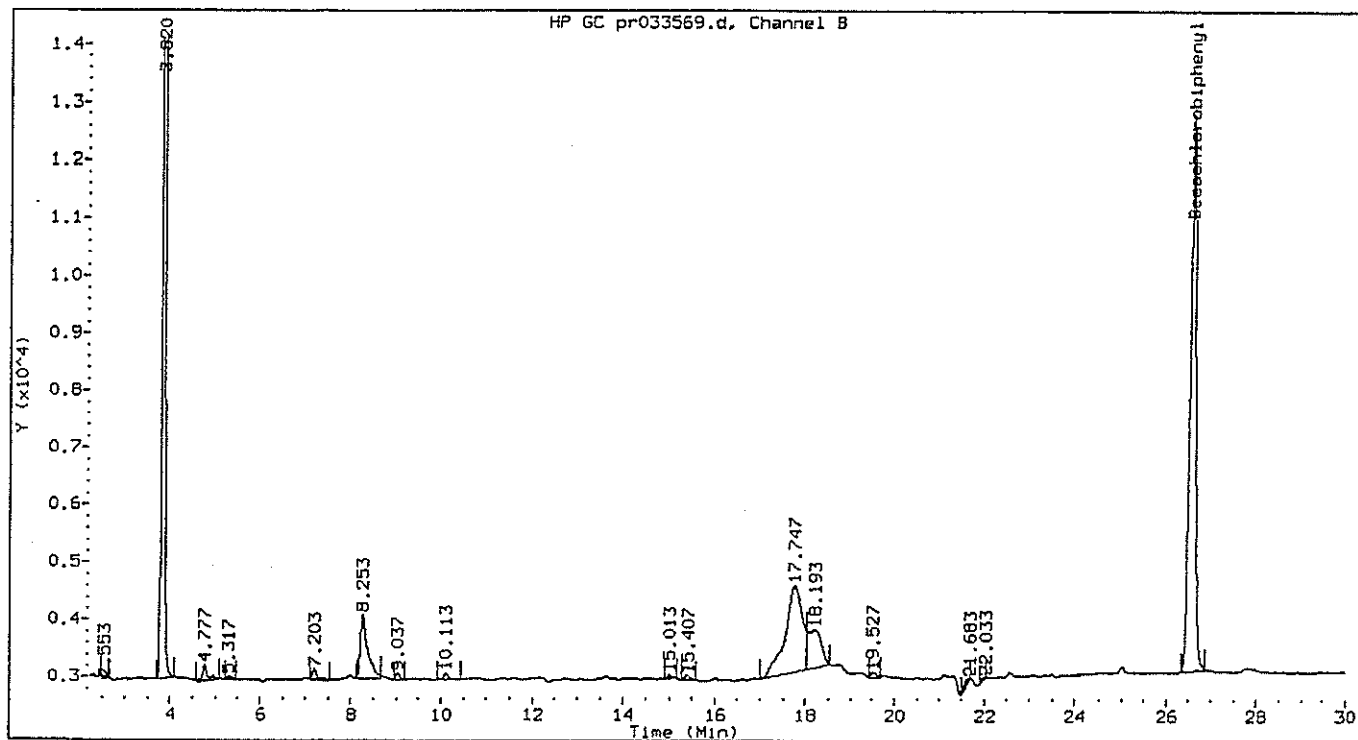
Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 289215;15;10;;
Lab ID : 289215
Inj Date : 27-JUL-2001 20:13
Operator : SK *[signature]*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.543	26.560	0.017	85608	53.410	42.238



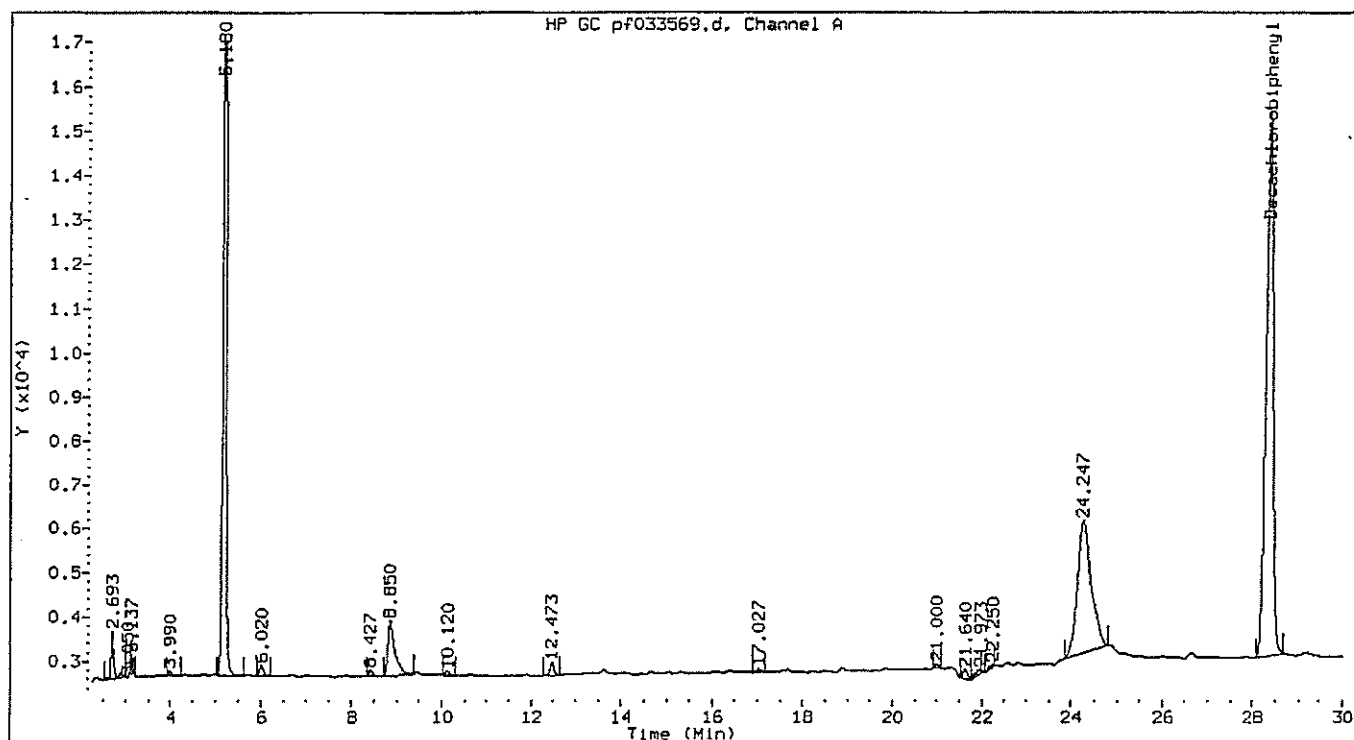
Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
 Sample Info : 289215;15;10;;
 Lab ID : 289215
 Inj Date : 27-JUL-2001 20:13
 Operator : SK
 Cpnd Sublist: PCB8082+
 Inst ID : PESTGC5.i
 Dil Factor : 1
 Sample Matrix : SOIL
 Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	28.313	28.333	0.020	127368	53.256	42.116



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01d.b/Pr8082.m
Sample Info : 289216;15;10;;
Lab ID : 289216
Inj Date : 27-JUL-2001 20:46
Operator : SK *h. g. 29/01*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	26.543	26.560	0.017	87589	54.646	43.787



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01d.b/Pf8082.m
Sample Info : 289216;15;10;;
Lab ID : 289216
Inj Date : 27-JUL-2001 20:46
Operator : SK
Cpnd Sublist: PCB8882+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: SAMPLE

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Decachlorobiphenyl	28.313	28.333	0.020	130211	54.445	43.626

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01e.b/pr033571.d
 Method: /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01e.b/Pr8082.m

Sample Information: 1016/1260-1000e
 Injection Date: 27-JUL-2001 22:20

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.450	1000	987.53	1.25
Aroclor-1016	2	6.730	1000	984.07	1.59
Aroclor-1016	3	7.723	1000	1017.19	1.72
Aroclor-1016	4	7.963	1000	1021.24	2.12
Aroclor-1016	5	8.540	1000	1007.92	0.79
Aroclor-1016	6	9.283	1000	1014.74	1.47
Aroclor-1016	7	10.330	1000	1060.04	6.00
Aroclor-1016	8	10.810	1000	1007.05	0.71

Aroclor-1260	1	15.400	1000	940.57	5.94
Aroclor-1260	2	17.230	1000	875.62	12.44
Aroclor-1260	3	17.377	1000	1065.27	6.53
Aroclor-1260	4	17.657	1000	1061.12	6.11
Aroclor-1260	5	18.913	1000	1036.21	3.62
Aroclor-1260	6	19.513	1000	1017.58	1.76
Aroclor-1260	7	21.480	1000	1000.26	0.03
Aroclor-1260	8	23.497	1000	1120.61	12.06

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.827	100	112.55	12.55
Decachlorobiphenyl	26.543	100	97.99	2.01

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.1

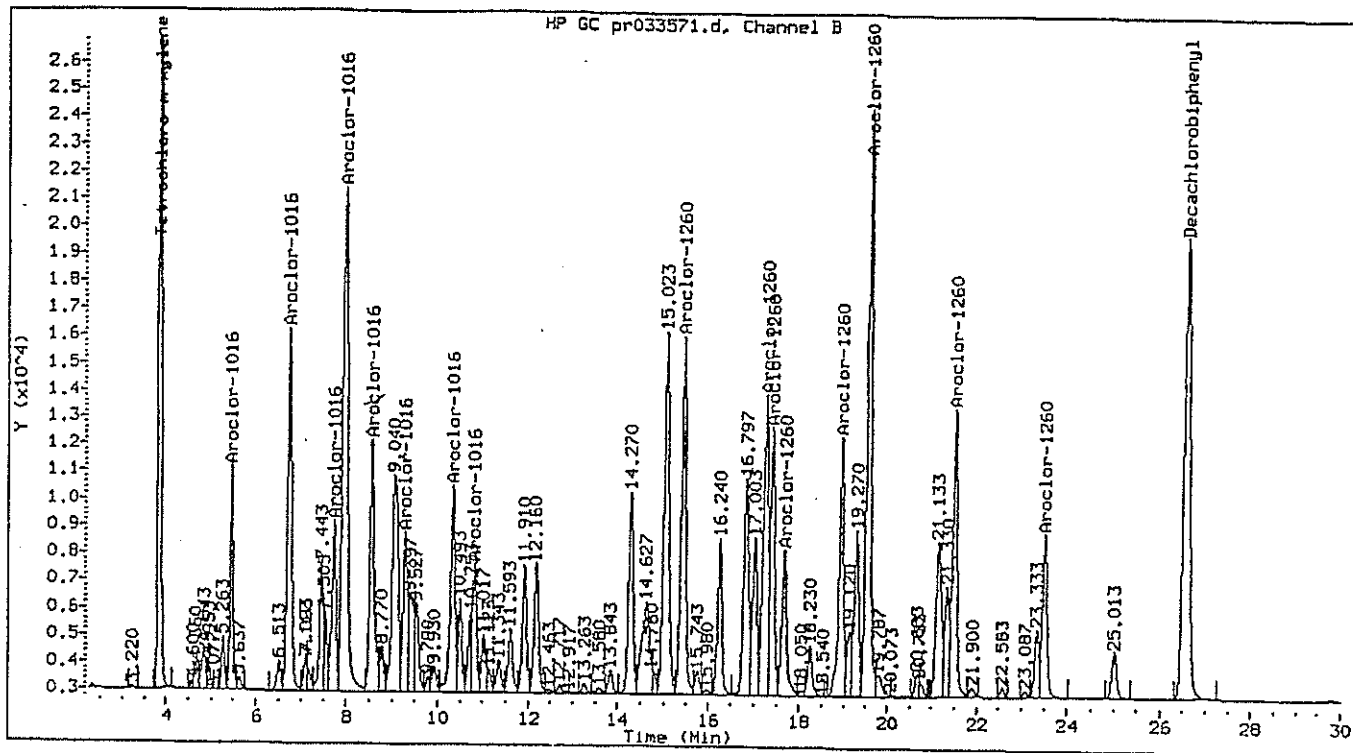
Midpoint Calibration File: /chem1/PESTGCS.1/8082/rear/Jul01/07-25-01/25jul01c.b/pr033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.1/8082/rear/Jul01/07-27-01/27jul01e.b/pr033571.d

Injection Date: 27-JUL-2001 22:20

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.457	(5.387 - 5.527)	5.450	
	6.737	(6.667 - 6.807)	6.730	
	7.730	(7.660 - 7.800)	7.723	
	7.970	(7.900 - 8.040)	7.963	
	8.547	(8.477 - 8.617)	8.540	
	9.290	(9.220 - 9.360)	9.283	
	10.337	(10.267 - 10.407)	10.330	
	10.823	(10.753 - 10.893)	10.810	
Aroclor-1260	15.413	(15.343 - 15.483)	15.400	
	17.240	(17.170 - 17.310)	17.230	
	17.390	(17.320 - 17.460)	17.377	
	17.667	(17.597 - 17.737)	17.657	
	18.927	(18.857 - 18.997)	18.913	
	19.527	(19.457 - 19.597)	19.513	
	21.493	(21.423 - 21.563)	21.480	
	23.510	(23.440 - 23.580)	23.497	
Tetrachloro-m-xylene	3.830	(3.780 - 3.880)	3.827	
Decachlorobiphenyl	26.560	(26.460 - 26.660)	26.543	



```
Method      : /chem1/PESTGC5.i/8082/rear/Jul01/07-27-01/27jul01e.b/Pr8082.m
Sample Info : 1Q16/1260-1000e
Lab ID      : 1Q16/1260-1000e
Inj Date    : 27-JUL-2001 22:20
Operator     : SK 1081071
Cpnd Sublist: AR16600S
Inst ID      : PESTGC5.i
Dil Factor   : 1
Sample Matrix : SOIL
Sample Type  : CCALIB 3
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Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.450	5.450	0.000	40295	987.528	987.528
(2)		6.730	6.730	0.000	82731	984.073	984.073
(3)		7.723	7.723	0.000	40588	1017.189	1017.189
(4)		7.963	7.963	0.000	155700	1021.238	1021.238
(5)		8.540	8.540	0.000	61739	1007.919	1007.919
(6)		9.283	9.283	0.000	37746	1014.736	1014.736
(7)		10.330	10.330	0.000	56473	1060.039	1060.039
(8)		10.810	10.810	0.000	29819	1007.050	1007.050
Average of peak concentrations:						1000.00	
Aroclor-1260	(M)	15.400	15.400	0.000	94197	940.567	940.567
(2)		17.230	17.230	0.000	82478	875.619	875.619
(3)		17.377	17.377	0.000	70085	1065.268	1065.268
(4)		17.657	17.657	0.000	41705	1061.119	1061.119
(5)		18.913	18.913	0.000	70999	1036.211	1036.211
(6)		19.513	19.513	0.000	157072	1017.581	1017.581

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.480	21.480	0.000	76775	1000.257	1000.257
(8)	23.497	23.497	0.000	45109	1120.608	1120.608

Average of peak concentrations:

1000.00

Tetrachloro-m-xylene	3.827	3.827	0.000	190871	112.550	112.550
Decachlorobiphenyl (M)	26.543	26.543	0.000	157057	97.987	97.987

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01e.b/pf033571.d
 Method: /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01e.b/Pf8082.m

Sample Information: 1016/1260-1000e
 Injection Date: 27-JUL-2001 22:20

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	6.130	1000	962.91	3.71
Aroclor-1016	2	7.400	1000	947.75	5.23
Aroclor-1016	3	8.040	1000	1013.88	1.39
Aroclor-1016	4	8.960	1000	972.01	2.80
Aroclor-1016	5	10.347	1000	977.64	2.24
Aroclor-1016	6	10.497	1000	968.40	3.16
Aroclor-1016	7	10.967	1000	983.01	1.70
Aroclor-1016	8	11.453	1000	981.08	1.89

Aroclor-1260	1	16.023	1000	906.06	9.39
Aroclor-1260	2	17.020	1000	919.25	8.07
Aroclor-1260	3	18.173	1000	878.98	12.10
Aroclor-1260	4	18.873	1000	1049.83	4.98
Aroclor-1260	5	19.850	1000	1020.28	2.03
Aroclor-1260	6	22.230	1000	975.61	2.44
Aroclor-1260	7	22.803	1000	1148.18	14.82
Aroclor-1260	8	24.857	1000	1123.58	12.36

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	5.180	100	109.10	9.10
Decachlorobiphenyl	28.310	100	99.18	0.82

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.i

Midpoint Calibration File: /chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.i/8082/front/Jul01/07-27-01/27jul01e.b/pf033571.d

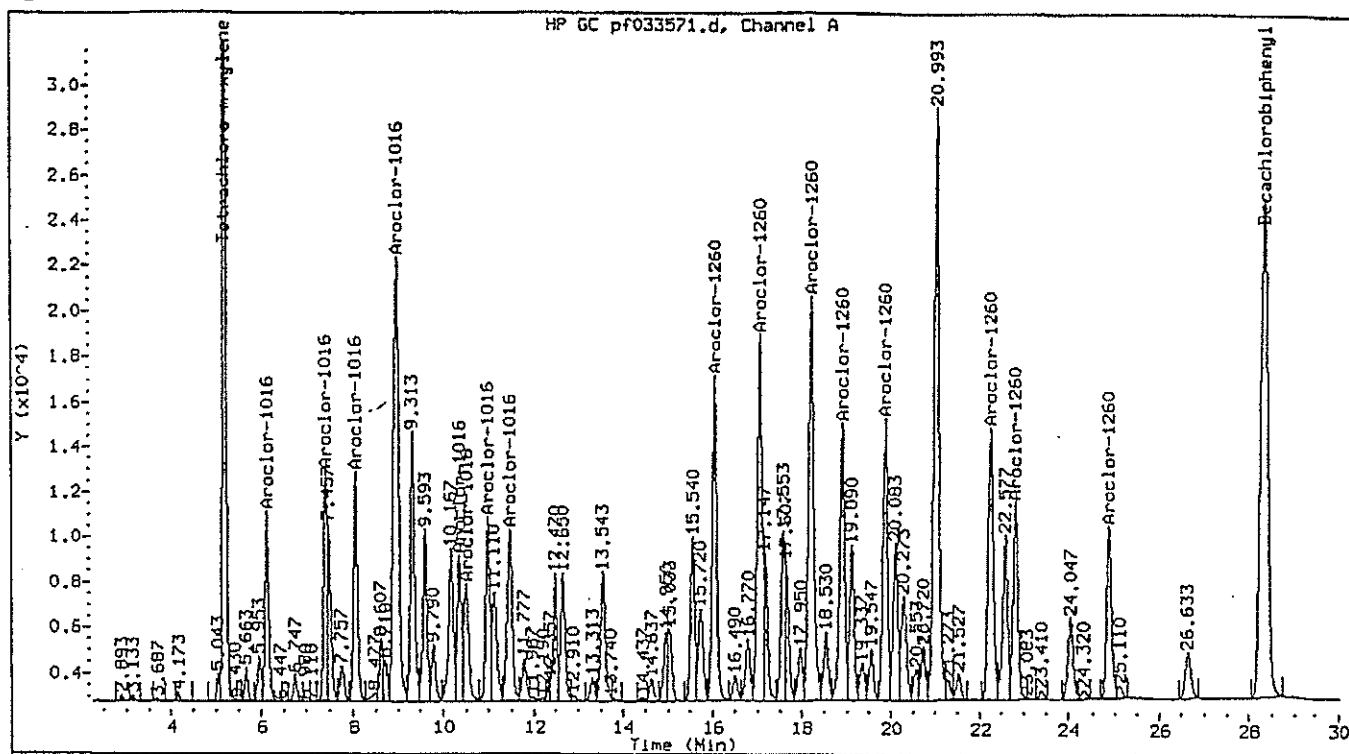
Injection Date: 27-JUL-2001 22:20

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	6.147	(6.077 - 6.217)	6.130	
	7.420	(7.350 - 7.490)	7.400	
	8.060	(7.990 - 8.130)	8.040	
	8.977	(8.907 - 9.047)	8.960	
	10.367	(10.297 - 10.437)	10.347	
	10.513	(10.443 - 10.583)	10.497	
	10.987	(10.917 - 11.057)	10.967	
	11.470	(11.400 - 11.540)	11.453	

Aroclor-1260	16.040	(15.970 - 16.110)	16.023	
	17.037	(16.967 - 17.107)	17.020	
	18.193	(18.123 - 18.263)	18.173	
	18.893	(18.823 - 18.963)	18.873	
	19.867	(19.797 - 19.937)	19.850	
	22.247	(22.177 - 22.317)	22.230	
	22.823	(22.753 - 22.893)	22.803	
	24.877	(24.807 - 24.947)	24.857	

Tetrachloro-m-xylene	5.193	(5.143 - 5.243)	5.180	

Decachlorobiphenyl	28.330	(28.230 - 28.430)	28.310	



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-27-01/27jul01e.b/Pf8082.m
Sample Info : 1016/1260-1000e
Lab ID : 1016/1260-1000e
Inj Date : 27-JUL-2001 22:20
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016 (M)	6.130	6.130	0.000	45909	962.912	962.912
(2)	7.400	7.400	0.000	58280	947.746	947.746
(3)	8.040	8.040	0.000	61434	1013.876	1013.876
(4)	8.960	8.960	0.000	171500	972.014	972.014
(5)	10.347	10.347	0.000	41028	977.642	977.642
(6)	10.497	10.497	0.000	39213	968.401	968.401
(7)	10.967	10.967	0.000	53751	983.008	983.008
(8)	11.453	11.453	0.000	61742	981.077	981.077

Average of peak concentrations:

980.00

Aroclor-1260 (M)	16.023	16.023	0.000	107906	906.061	906.061
(2)	17.020	17.020	0.000	121781	919.252	919.252
(3)	18.173	18.173	0.000	146912	878.982	878.982
(4)	18.873	18.873	0.000	93337	1049.831	1049.831
(5)	19.850	19.850	0.000	88508	1020.275	1020.275
(6)	22.230	22.230	0.000	101300	975.613	975.613

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.803	22.803	0.000	66178	1148.179	1148.179
(8)	24.857	24.857	0.000	59094	1123.575	1123.575

Average of peak concentrations:

1000.00

Tetrachloro-m-xylene	(M)	5.180	5.180	0.000	199736	109.100	109.100
Decachlorobiphenyl		28.310	28.310	0.000	237203	99.181	99.181

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b/pr033597.d
 Method: /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b/Pr8082.m

Sample Information: 1016/1260-1000a
 Injection Date: 29-JUL-2001 10:38

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.450	1000	992.02	0.80
Aroclor-1016	2	6.727	1000	987.46	1.25
Aroclor-1016	3	7.723	1000	1019.88	1.99
Aroclor-1016	4	7.963	1000	1023.78	2.38
Aroclor-1016	5	8.540	1000	1020.23	2.02
Aroclor-1016	6	9.283	1000	1014.69	1.47
Aroclor-1016	7	10.333	1000	1031.09	3.11
Aroclor-1016	8	10.817	1000	1112.73	11.27

Aroclor-1260	1	15.407	1000	936.56	6.34
Aroclor-1260	2	17.237	1000	870.96	12.90
Aroclor-1260	3	17.387	1000	1039.29	3.93
Aroclor-1260	4	17.663	1000	982.32	1.77
Aroclor-1260	5	18.923	1000	1020.92	2.09
Aroclor-1260	6	19.527	1000	989.86	1.01
Aroclor-1260	7	21.490	1000	970.17	2.98
Aroclor-1260	8	23.503	1000	1053.62	5.36

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.823	100	113.68	13.68
Decachlorobiphenyl	26.557	100	91.96	8.04

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.i

Midpoint Calibration File: /chem1/PESTGCS.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.i/8082/rear/Jul01/07-30-01/30jul01a.b/pr033597.d

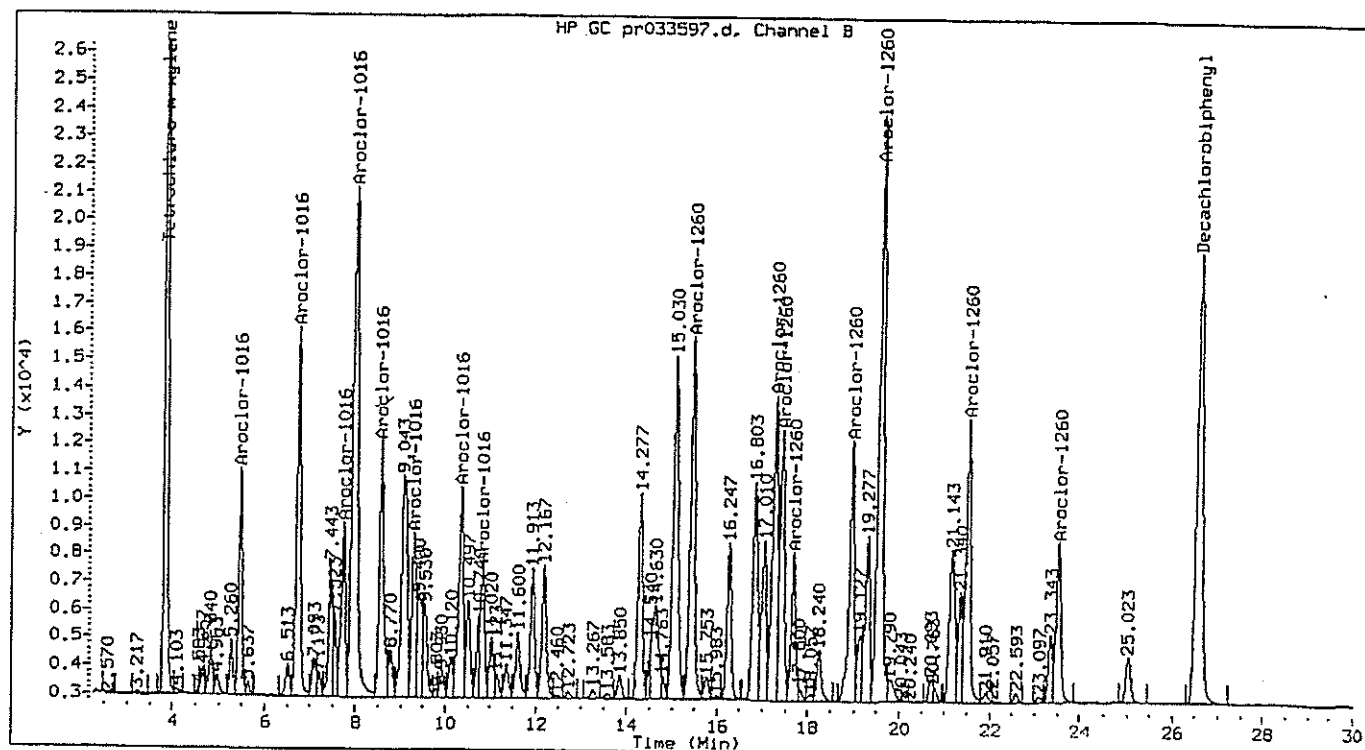
Injection Date: 29-JUL-2001 10:38

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.457	(5.387 - 5.527)	5.450	
	6.737	(6.667 - 6.807)	6.727	
	7.730	(7.660 - 7.800)	7.723	
	7.970	(7.900 - 8.040)	7.963	
	8.547	(8.477 - 8.617)	8.540	
	9.290	(9.220 - 9.360)	9.283	
	10.337	(10.267 - 10.407)	10.333	
	10.823	(10.753 - 10.893)	10.817	

Aroclor-1260	15.413	(15.343 - 15.483)	15.407	
	17.240	(17.170 - 17.310)	17.237	
	17.390	(17.320 - 17.460)	17.387	
	17.667	(17.597 - 17.737)	17.663	
	18.927	(18.857 - 18.997)	18.923	
	19.527	(19.457 - 19.597)	19.527	
	21.493	(21.423 - 21.563)	21.490	
	23.510	(23.440 - 23.580)	23.503	

Tetrachloro-m-xylene	3.830	(3.780 - 3.880)	3.823	

Decachlorobiphenyl	26.560	(26.460 - 26.660)	26.557	



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Method       : /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b/Pr8082.m
Sample Info  : 1016/1260-1000a
Lab ID       : 1016/1260-1000a
Inj Date     : 29-JUL-2001 10:38
Operator     : SK Aug 11/01
Cpnd Sublist: AR16600S
Inst ID      : PESTGC5.i
Dil Factor   : 1
Sample Matrix : SOIL
Sample Type  : CCALIB 3
```

Compounds		CONCENTRATIONS					
		RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.450	5.450	0.000	40478	992.023	992.023
(2)		6.727	6.727	0.000	83015	987.456	987.456
(3)		7.723	7.723	0.000	40695	1019.881	1019.881
(4)		7.963	7.963	0.000	156087	1023.778	1023.778
(5)		8.540	8.540	0.000	62493	1020.230	1020.230
(6)		9.283	9.283	0.000	37744	1014.687	1014.687
(7)		10.333	10.333	0.000	54930	1031.091	1031.091
(8)		10.817	10.817	0.000	32948	1112.727	1112.727
Average of peak concentrations:							1000.00
Aroclor-1260	(M)	15.407	15.407	0.000	93796	936.565	936.565
(2)		17.237	17.237	0.000	82039	870.962	870.962
(3)		17.387	17.387	0.000	68375	1039.286	1039.286
(4)		17.663	17.663	0.000	38608	982.323	982.323
(5)		18.923	18.923	0.000	69951	1020.924	1020.924
(6)		19.527	19.527	0.000	152793	989.861	989.861

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.490	21.490	0.000	74466	970.175	970.175
(8)	23.503	23.503	0.000	42412	1053.618	1053.618

Average of peak concentrations:

980.00

Tetrachloro-m-xylene	(M)	3.823	3.823	0.000	192782	113.677	113.677
Decachlorobiphenyl	(M)	26.557	26.557	0.000	147402	91.963	91.963

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01a.b/pf033597.d
Method: /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01a.b/Pf8082.m

Sample Information: 1016/1260-1000a
Injection Date: 29-JUL-2001 10:38

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	6.137	1000	932.40	6.76
Aroclor-1016	2	7.410	1000	865.50	13.45
Aroclor-1016	3	8.053	1000	957.42	4.26
Aroclor-1016	4	8.970	1000	939.98	6.00
Aroclor-1016	5	10.360	1000	939.73	6.03
Aroclor-1016	6	10.507	1000	952.25	4.77
Aroclor-1016	7	10.980	1000	944.07	5.59
Aroclor-1016	8	11.463	1000	946.74	5.33

Aroclor-1260	1	16.037	1000	877.71	12.23
Aroclor-1260	2	17.033	1000	897.03	10.30
Aroclor-1260	3	18.187	1000	840.72	15.93
Aroclor-1260	4	18.890	1000	1005.87	0.59
Aroclor-1260	5	19.860	1000	976.91	2.31
Aroclor-1260	6	22.243	1000	917.43	8.26
Aroclor-1260	7	22.820	1000	1085.59	8.56
Aroclor-1260	8	24.870	1000	1056.12	5.61

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	5.187	100	104.42	4.42
Decachlorobiphenyl	28.327	100	94.70	5.30

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.i

Midpoint Calibration File: /chem1/PESTGCS.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.i/8082/Front/Jul01/07-30-01/30jul01a.b/pf033597.d

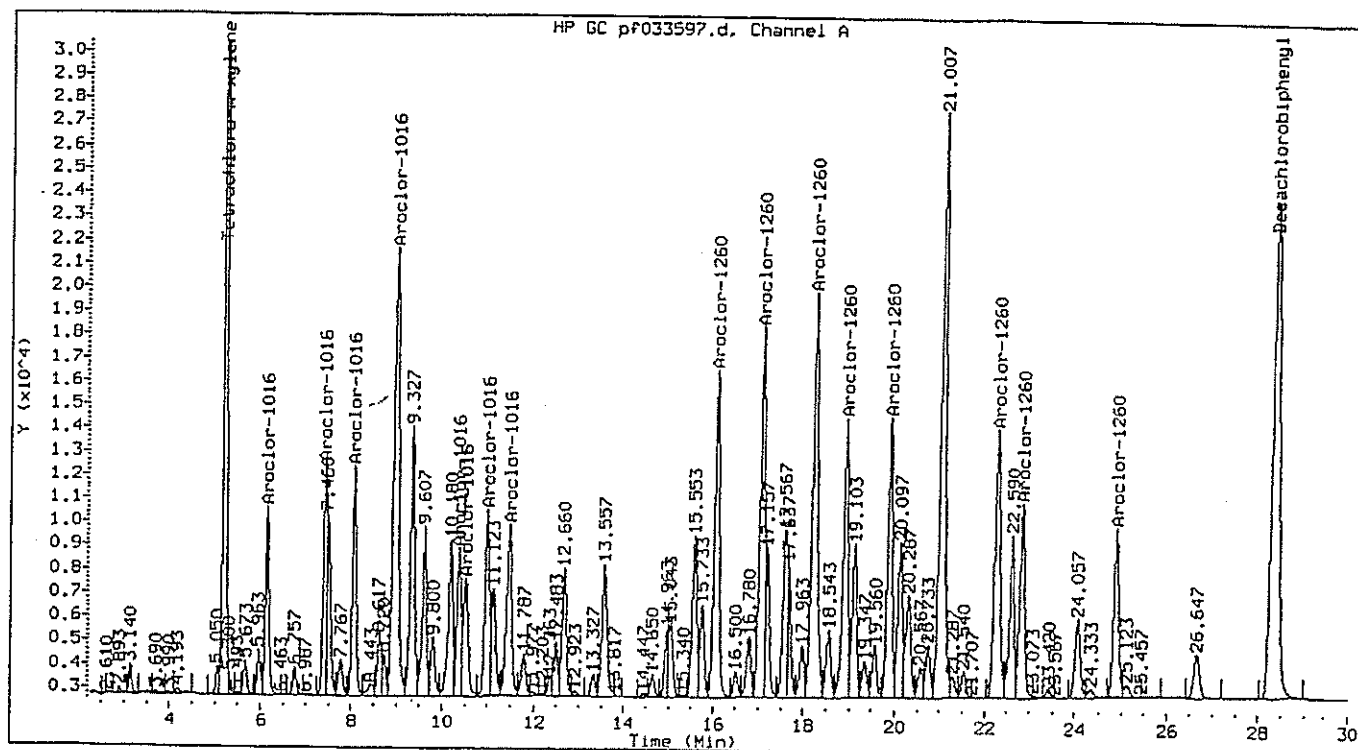
Injection Date: 29-JUL-2001 10:38

Compound	Init Cal	RT	Cont Cal	Flags
	RT	Range	RT	
Aroclor-1016	6.147	(6.077 - 6.217)	6.137	
	7.420	(7.350 - 7.490)	7.410	
	8.060	(7.990 - 8.130)	8.053	
	8.977	(8.907 - 9.047)	8.970	
	10.367	(10.297 - 10.437)	10.360	
	10.513	(10.443 - 10.583)	10.507	
	10.987	(10.917 - 11.057)	10.980	
	11.470	(11.400 - 11.540)	11.463	

Aroclor-1260	16.040	(15.970 - 16.110)	16.037	
	17.037	(16.967 - 17.107)	17.033	
	18.193	(18.123 - 18.263)	18.187	
	18.893	(18.823 - 18.963)	18.890	
	19.867	(19.797 - 19.937)	19.860	
	22.247	(22.177 - 22.317)	22.243	
	22.823	(22.753 - 22.893)	22.820	
	24.877	(24.807 - 24.947)	24.870	

Tetrachloro-m-xylene	5.193	(5.143 - 5.243)	5.187	

Decachlorobiphenyl	28.330	(28.230 - 28.430)	28.327	



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01a.b/Pf8082.m
Sample Info : 1016/1260-1000a
Lab ID : 1016/1260-1000a
Inj Date : 29-JUL-2001 10:38
Operator : SK
Cpnd Sublist: ARI6600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	6.137	6.137	0.000	44454	932.403
(2)	7.410	7.410	0.000	53222	865.498	865.498
(3)	8.053	8.053	0.000	58013	957.418	957.418
(4)	8.970	8.970	0.000	165848	939.983	939.983
(5)	10.360	10.360	0.000	39436	939.726	939.726
(6)	10.507	10.507	0.000	38559	952.255	952.255
(7)	10.980	10.980	0.000	51622	944.074	944.074
(8)	11.463	11.463	0.000	59580	946.736	946.736
Average of peak concentrations:					930.00	
Aroclor-1260	(M)	16.037	16.037	0.000	104529	877.707
(2)	17.033	17.033	0.000	118836	897.028	897.028
(3)	18.187	18.187	0.000	140517	840.720	840.720
(4)	18.890	18.890	0.000	89428	1005.874	1005.874
(5)	19.860	19.860	0.000	84745	976.906	976.906
(6)	22.243	22.243	0.000	95258	917.429	917.429

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.820	22.820	0.000	62570	1085.593	1085.593
(8)	24.870	24.870	0.000	55546	1056.116	1056.116

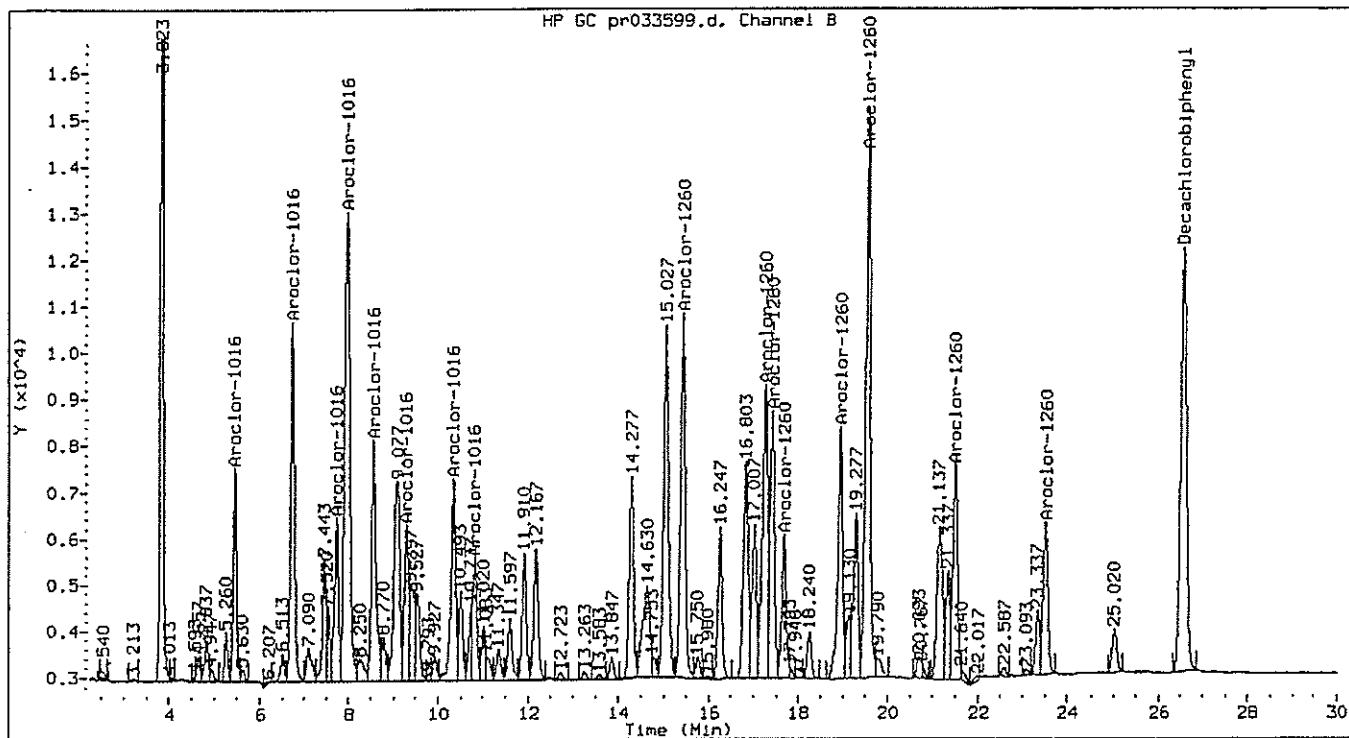
Average of peak concentrations:

960.00

Tetrachloro-m-xylene	5.187	5.187	0.000	191170	104.422	104.422
Decachlorobiphenyl (M)	28.327	28.327	0.000	226485	94.700	94.700

COMMENTS:

M - Compound response manually integrated.



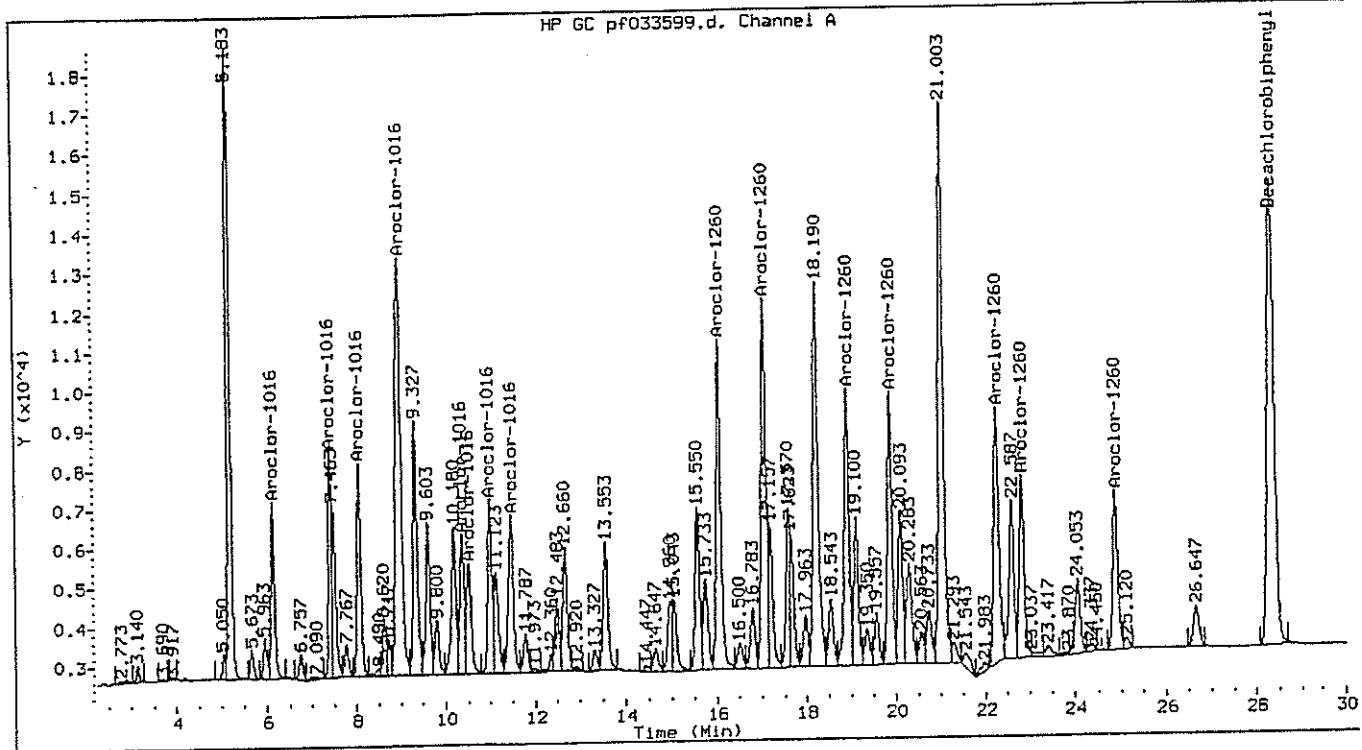
Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b/Pr8082.m
Sample Info : 289211MS;15;10;;
Lab ID : 289211MS
Inj Date : 29-JUL-2001 11:44
Operator : SK *[signature]*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: MS

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
Aroclor-1016	(M)	5.450	5.450	0.000	22804	558.868	443.019
(2)		6.727	6.727	0.000	48299	574.510	455.418
(3)		7.720	7.723	0.003	22925	574.531	455.435
(4)		7.960	7.963	0.003	84687	555.463	440.319
(5)		8.540	8.540	0.000	35508	579.685	459.521
(6)		9.283	9.283	0.000	21736	584.335	463.206
(7)		10.330	10.333	0.003	31973	600.156	475.748
(8)		10.813	10.817	0.003	18310	618.367	490.184
Average of peak concentrations:							460.00
Aroclor-1260	(M)	15.403	15.407	0.003	55490	554.073	439.218
(2)		17.233	17.237	0.003	46964	498.589	395.235
(3)		17.387	17.387	0.000	40410	614.218	486.895
(4)		17.660	17.663	0.003	22155	563.699	446.848
(5)		18.920	18.923	0.003	40760	594.881	471.566
(6)		19.523	19.527	0.003	87527	567.038	449.495

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
*****	*****	*****	*****	*****	*****	*****
(7)	21.487	21.490	0.003	33010	430.068	340.918
(8)	23.500	23.503	0.003	23557	585.208	463.899
Average of peak concentrations:						440.00
-----	-----	-----	-----	-----	-----	-----
Decachlorobiphenyl	26.547	26.557	0.010	83325	51.986	41.209
-----	-----	-----	-----	-----	-----	-----

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01a.b/Pf8082.m
Sample Info : 289211MS;15;10;;
Lab ID : 289211MS
Inj Date : 29-JUL-2001 11:44
Operator : SK *h571101*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: MS

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M) 6.137	6.137	0.000	24350	510.726	404.856
(2)	7.410	7.410	0.000	31766	516.577	409.494
(3)	8.050	8.053	0.003	32190	531.248	421.124
(4)	8.970	8.970	0.000	94703	536.750	425.486
(5)	10.360	10.360	0.000	22295	531.260	421.133
(6)	10.507	10.507	0.000	21276	525.430	416.512
(7)	10.980	10.980	0.000	29230	534.563	423.752
(8)	11.460	11.463	0.003	32888	522.589	414.260

Average of peak concentrations:

					420.00	
Aroclor-1260	(M) 16.037	16.037	0.000	63358	532.002	421.722
(2)	17.030	17.033	0.003	70619	533.060	422.561
(3)	-----	18.187	-----	-----	-----	(*)
(4)	18.887	18.890	0.003	53262	599.078	474.893
(5)	19.860	19.860	0.000	49895	575.164	455.937
(6)	22.243	22.243	0.000	55111	530.770	420.745

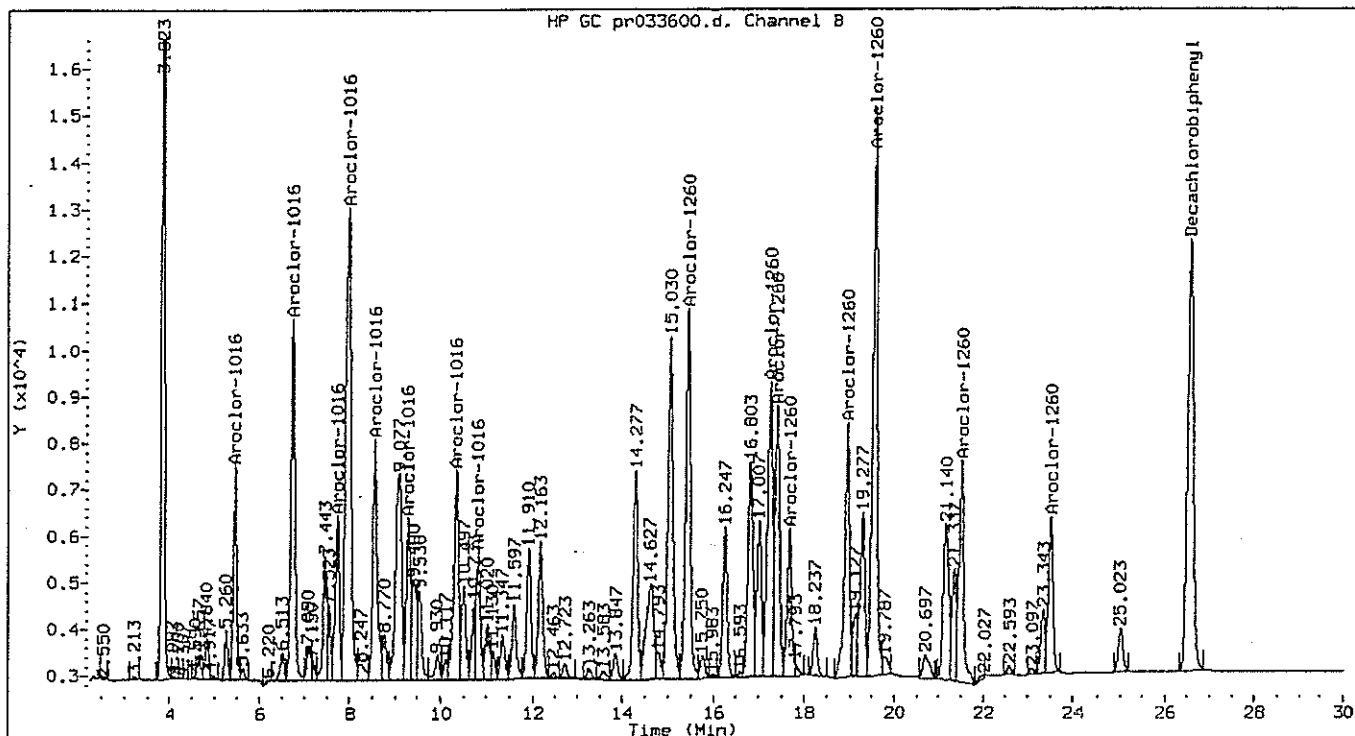
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	22.817	22.820	0.003	36568	634.450	502.933
(8)	24.867	24.870	0.003	31308	595.270	471.875

Average of peak concentrations: 450.00

Decachlorobiphenyl	28.323	28.327	0.003	125557	52.499	41.616

COMMENTS:

- * - Multicomponent peak not used in quantitation of compound.
- M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01a.b/Pr8082.m
Sample Info : 289211MSD;15;10;
Lab ID : 289211MSD
Inj Date : 29-JUL-2001 12:17
Operator : SK *[Signature]*
Cpnd Sublist: PCB8082+
Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: MSD

						CONCENTRATIONS	
						ON-COLUMN	FINAL
Compounds		RT	EXP RT	DLT RT	RESPONSE	(ug/L)	(ug/kg)

Aroclor-1016	(M)	5.450	5.450	0.000	22782	558.329	372.219
(2)		6.727	6.727	0.000	48497	576.865	384.577
(3)		7.723	7.723	0.000	22853	572.726	381.818
(4)		7.963	7.963	0.000	85618	561.569	374.380
(5)		8.540	8.540	0.000	35416	578.184	385.456
(6)		9.283	9.283	0.000	22295	599.362	399.575
(7)		10.330	10.333	0.003	31962	599.950	399.966
(8)		10.813	10.817	0.003	18888	637.887	425.258
Average of peak concentrations:							390.00

Aroclor-1260	(M)	15.407	15.407	0.000	57014	569.291	379.527
(2)		17.237	17.237	0.000	47714	506.551	337.701
(3)		17.383	17.387	0.003	40890	621.514	414.343
(4)		17.660	17.663	0.003	22565	574.131	382.754
(5)		18.920	18.923	0.003	41191	601.171	400.781
(6)		19.523	19.527	0.003	87226	568.975	379.317

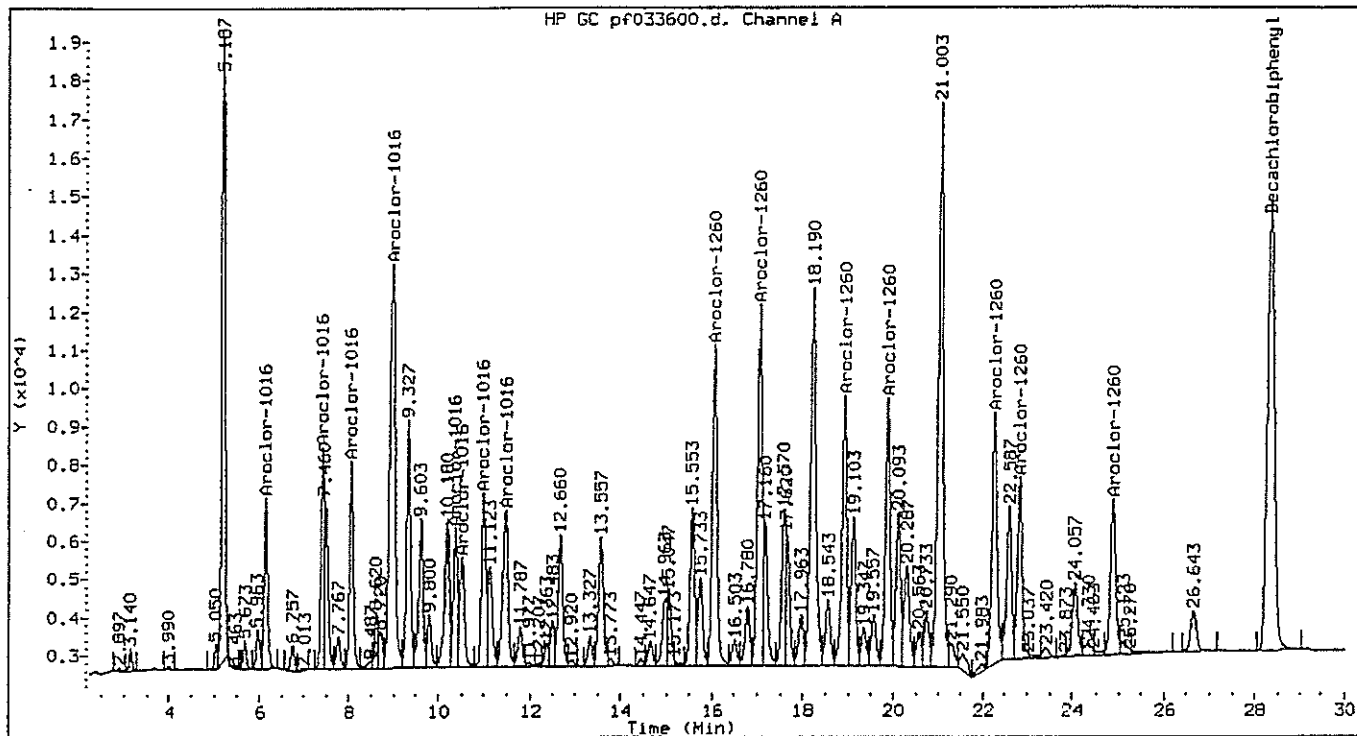
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.490	21.490	0.000	36172	471.264	314.176
(8)	23.503	23.503	0.000	23421	581.830	387.886

Average of peak concentrations: 370.00

Decachlorobiphenyl	26.550	26.557	0.007	82906	51.724	34.483

COMMENTS:

M - Compound response manually integrated.



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01a.b/Pf8082.m
Sample Info : 289211MSD;15;10;
Lab ID : 289211MSD
Inj Date : 29-JUL-2001 12:17
Operator : SK
Cpnd Sublist: PCB80824

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: MSD

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
						(ug/L)	(ug/kg)
Aroclor-1016	(M)	6.137	6.137	0.000	24055	504.538	399.951
(2)		7.413	7.410	0.003	30826	501.290	397.376
(3)		8.053	8.053	0.000	31993	527.997	418.547
(4)		8.970	8.970	0.000	94322	534.591	423.774
(5)		10.360	10.360	0.000	22847	544.413	431.560
(6)		10.503	10.507	0.003	21903	540.915	428.787
(7)		10.980	10.980	0.000	30380	555.595	440.424
(8)		11.460	11.463	0.003	33830	537.557	426.125
Average of peak concentrations:							420.00
Aroclor-1260	(M)	16.037	16.037	0.000	64297	539.837	427.972
(2)		17.033	17.033	0.000	70305	530.690	420.682
(3)		-----	18.187	-----	-----	-----	----- (*)
(4)		18.887	18.890	0.003	54430	612.215	485.307
(5)		19.860	19.860	0.000	51452	593.112	470.164
(6)		22.240	22.243	0.003	55624	535.711	424.662

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
-----	-----	-----	-----	-----	-----	-----
(7)	22.817	22.820	0.003	36533	633.842	502.451
(8)	24.870	24.870	0.000	32873	625.026	495.463

Average of peak concentrations:

460.00

Decachlorobiphenyl	(M)	28.327	28.327	0.000	126768	53.005	42.018

COMMENTS:

- * - Multicomponent peak not used in quantitation of compound.
- M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01b.b/pr033611.d
 Method: /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01b.b/Pr8082.m

Sample Information: 1016/1260-1000b
 Injection Date: 29-JUL-2001 18:45

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	5.453	1000	962.14	3.79
Aroclor-1016	2	6.733	1000	956.57	4.34
Aroclor-1016	3	7.727	1000	980.47	1.95
Aroclor-1016	4	7.967	1000	976.71	2.33
Aroclor-1016	5	8.547	1000	955.64	4.44
Aroclor-1016	6	9.290	1000	987.20	1.28
Aroclor-1016	7	10.337	1000	957.21	4.28
Aroclor-1016	8	10.820	1000	1015.60	1.56

Aroclor-1260	1	15.410	1000	885.78	11.42
Aroclor-1260	2	17.240	1000	823.29	17.67
Aroclor-1260	3	17.390	1000	988.43	1.16
Aroclor-1260	4	17.667	1000	928.06	7.19
Aroclor-1260	5	18.927	1000	980.21	1.98
Aroclor-1260	6	19.527	1000	952.15	4.79
Aroclor-1260	7	21.493	1000	933.68	6.63
Aroclor-1260	8	23.507	1000	1036.86	3.69

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	3.830	100	110.38	10.38
Decachlorobiphenyl	26.557	100	90.44	9.56

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGCS.i

Midpoint Calibration File: /chem1/PESTGCS.i/8082/rear/Jul01/07-25-01/25jul01c.b/pr033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGCS.i/8082/rear/Jul01/07-30-01/30jul01b.b/pr033611.d

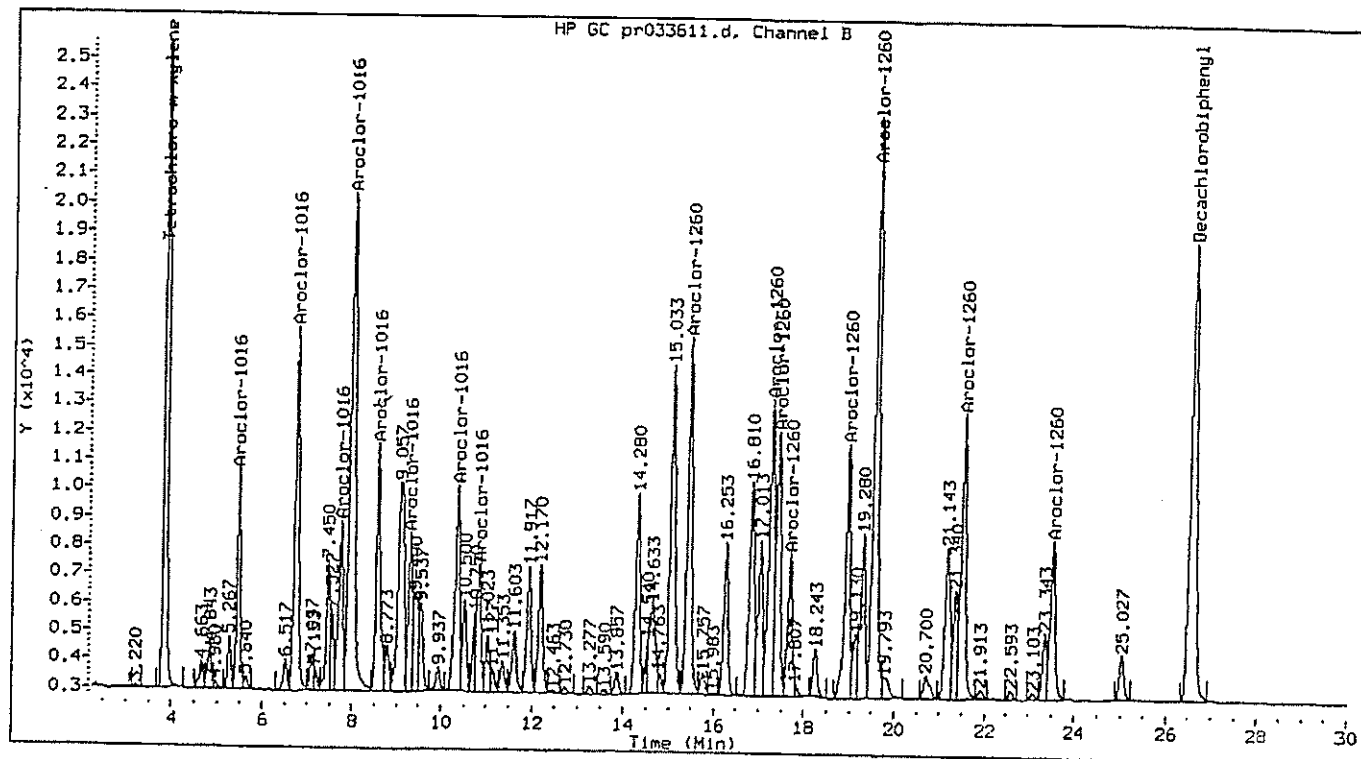
Injection Date: 29-JUL-2001 18:45

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	5.457	(5.387 - 5.527)	5.453	
	6.737	(6.667 - 6.807)	6.733	
	7.730	(7.660 - 7.800)	7.727	
	7.970	(7.900 - 8.040)	7.967	
	8.547	(8.477 - 8.617)	8.547	
	9.290	(9.220 - 9.360)	9.290	
	10.337	(10.267 - 10.407)	10.337	
	10.823	(10.753 - 10.893)	10.820	

Aroclor-1260	15.413	(15.343 - 15.483)	15.410	
	17.240	(17.170 - 17.310)	17.240	
	17.390	(17.320 - 17.460)	17.390	
	17.667	(17.597 - 17.737)	17.667	
	18.927	(18.857 - 18.997)	18.927	
	19.527	(19.457 - 19.597)	19.527	
	21.493	(21.423 - 21.563)	21.493	
	23.510	(23.440 - 23.580)	23.507	

Tetrachloro-m-xylene	3.830	(3.780 - 3.880)	3.830	

Decachlorobiphenyl	26.560	(26.460 - 26.660)	26.557	



Method : /chem1/PESTGC5.i/8082/rear/Jul01/07-30-01/30jul01b.b/Pr8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 29-JUL-2001 18:45
Operator : SK
Cpnd Sublist: AR16600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/kg)
Aroclor-1016	(M)	5.453	5.453	0.000	39259	962.143	962.143
	(2)	6.733	6.733	0.000	80418	956.568	956.568
	(3)	7.727	7.727	0.000	39122	980.467	980.467
	(4)	7.967	7.967	0.000	148910	976.708	976.708
	(5)	8.547	8.547	0.000	58536	955.635	955.635
	(6)	9.290	9.290	0.000	36721	987.196	987.196
	(7)	10.337	10.337	0.000	50994	957.207	957.207
	(8)	10.820	10.820	0.000	30072	1015.601	1015.601

Average of peak concentrations:

970.00

Aroclor-1260	(M)	15.410	15.410	0.000	88709	885.778	885.778
	(2)	17.240	17.240	0.000	77549	823.291	823.291
	(3)	17.390	17.390	0.000	65029	988.429	988.429
	(4)	17.667	17.667	0.000	36475	928.065	928.065
	(5)	18.927	18.927	0.000	67162	980.214	980.214
	(6)	19.527	19.527	0.000	146972	952.149	952.149

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	21.493	21.493	0.000	71664	933.678	933.678
(8)	23.507	23.507	0.000	41737	1036.860	1036.860

Average of peak concentrations: 940.00

Tetrachloro-m-xylene	3.830	3.830	0.000	187187	110.378	110.378
Decachlorobiphenyl	26.557	26.557	0.000	144967	90.444	90.444

COMMENTS:

M - Compound response manually integrated.

MULTICOMPONENT COMPOUND CONTINUING CALIBRATION REPORT

Data File: /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01b.b/pf033611.d
 Method: /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01b.b/Pf8082.m

Sample Information: 1016/1260-1000b
 Injection Date: 29-JUL-2001 18:45

Compound	Signal No.	RT	Exp Conc	Actual Conc	Percent Diff.
Aroclor-1016	1	6.143	1000	911.78	8.82
Aroclor-1016	2	7.417	1000	926.97	7.30
Aroclor-1016	3	8.057	1000	934.82	6.52
Aroclor-1016	4	8.977	1000	934.16	6.58
Aroclor-1016	5	10.363	1000	938.25	6.17
Aroclor-1016	6	10.510	1000	924.28	7.57
Aroclor-1016	7	10.983	1000	937.29	6.27
Aroclor-1016	8	11.467	1000	932.52	6.75

Aroclor-1260	1	16.040	1000	862.66	13.73
Aroclor-1260	2	17.037	1000	891.03	10.90
Aroclor-1260	3	18.193	1000	824.96	17.50
Aroclor-1260	4	18.890	1000	986.60	1.34
Aroclor-1260	5	19.863	1000	954.45	4.56
Aroclor-1260	6	22.247	1000	901.24	9.88
Aroclor-1260	7	22.823	1000	1063.42	6.34
Aroclor-1260	8	24.877	1000	1045.27	4.53

Surrogate	RT	Exp Conc	Actual Conc	Percent Diff.
Tetrachloro-m-xylene	5.190	100	104.77	4.77
Decachlorobiphenyl	28.330	100	92.91	7.09

GC ORGANICS RETENTION TIME CHECK

Instrument ID: PESTGC5.1

Midpoint Calibration File: /chem1/PESTGC5.i/8082/front/Jul01/07-25-01/25jul01c.b/pf033460.d

Injection Date: 24-JUL-2001 20:36

Continuing Calibration File: /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01b.b/pf033611.d

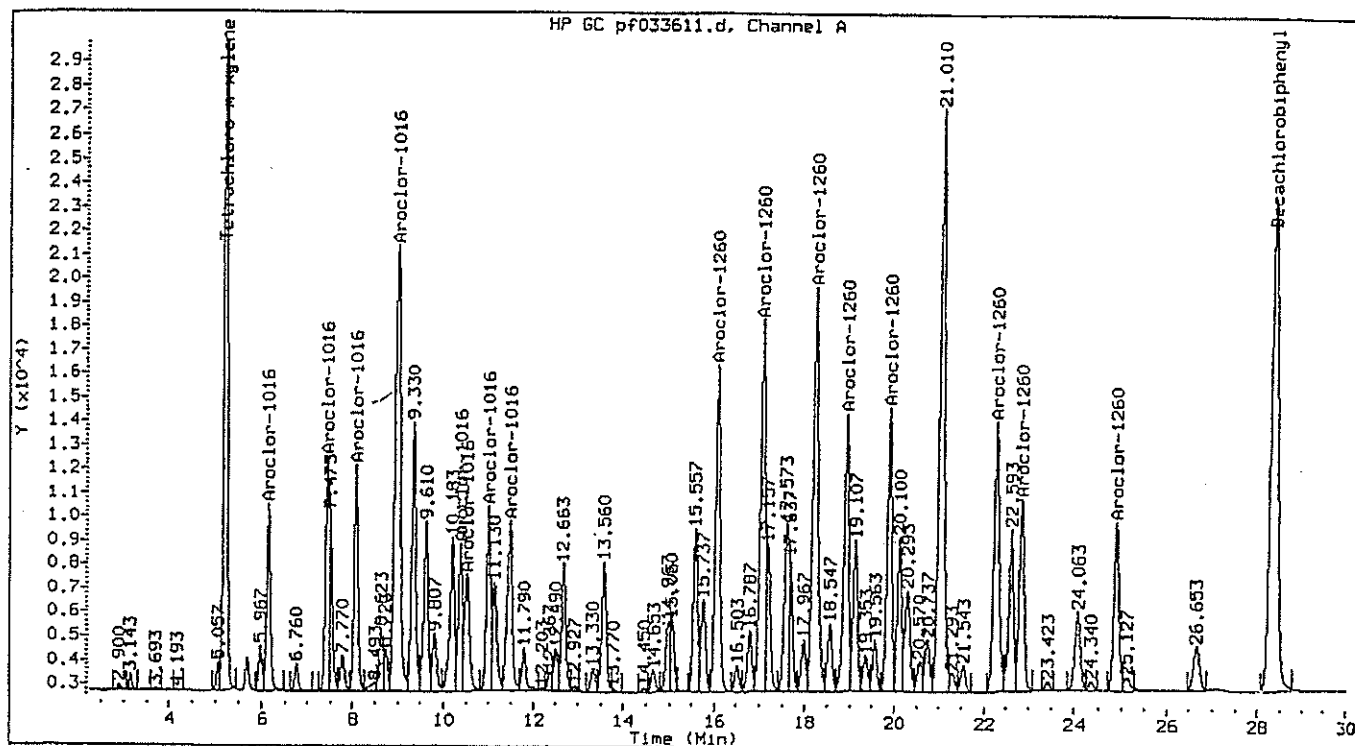
Injection Date: 29-JUL-2001 18:45

Compound	Init Cal RT	RT Range	Cont Cal RT	Flags
Aroclor-1016	6.147	(6.077 - 6.217)	6.143	
	7.420	(7.350 - 7.490)	7.417	
	8.060	(7.990 - 8.130)	8.057	
	8.977	(8.907 - 9.047)	8.977	
	10.367	(10.297 - 10.437)	10.363	
	10.513	(10.443 - 10.583)	10.510	
	10.987	(10.917 - 11.057)	10.983	
	11.470	(11.400 - 11.540)	11.467	

Aroclor-1260	16.040	(15.970 - 16.110)	16.040	
	17.037	(16.967 - 17.107)	17.037	
	18.193	(18.123 - 18.263)	18.193	
	18.893	(18.823 - 18.963)	18.890	
	19.867	(19.797 - 19.937)	19.863	
	22.247	(22.177 - 22.317)	22.247	
	22.823	(22.753 - 22.893)	22.823	
	24.877	(24.807 - 24.947)	24.877	

Tetrachloro-m-xylene	5.193	(5.143 - 5.243)	5.190	

Decachlorobiphenyl	28.330	(28.230 - 28.430)	28.330	



Method : /chem1/PESTGC5.i/8082/front/Jul01/07-30-01/30jul01b.b/Pf8082.m
Sample Info : 1016/1260-1000b
Lab ID : 1016/1260-1000b
Inj Date : 29 JUL-2001 18:45
Operator : SK [signature]
Cpnd Sublist: AR15600S

Inst ID : PESTGC5.i
Dil Factor : 1
Sample Matrix : SOIL
Sample Type: CCALIB_3

Compounds		RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/L)	FINAL (ug/kg)

Aroclor-1016	(M)	6.143	6.143	0.000	43471	911.781	911.781
(2)		7.417	7.417	0.000	57002	926.966	926.966
(3)		8.057	8.057	0.000	56643	934.821	934.821
(4)		8.977	8.977	0.000	164821	934.163	934.163
(5)		10.363	10.363	0.000	39374	938.251	938.251
(6)		10.510	10.510	0.000	37426	924.279	924.279
(7)		10.983	10.983	0.000	51251	937.291	937.291
(8)		11.467	11.467	0.000	58686	932.517	932.517
Average of peak concentrations:							930.00

Aroclor-1260	(M)	16.040	16.040	0.000	102737	862.664	862.664
(2)		17.037	17.037	0.000	118042	891.034	891.034
(3)		18.193	18.193	0.000	137883	824.963	824.963
(4)		18.890	18.890	0.000	87715	986.601	986.601
(5)		19.863	19.863	0.000	82797	954.446	954.446
(6)		22.247	22.247	0.000	93577	901.236	901.236

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/kg)
(7)	22.823	22.823	0.000	61292	1063.423	1063.423
(8)	24.877	24.877	0.000	54975	1045.267	1045.267

Average of peak concentrations: 940.00

Tetrachloro-m-xylene	(M)	5.190	5.190	0.000	191808	104.770	104.770
Decachlorobiphenyl		28.330	28.330	0.000	222208	92.912	92.912

COMMENTS:

M - Compound response manually integrated.

Metals Forms and Data

Analytical Results Summary

Client ID: SB-1
Site: NJDOT Credit Union

Lab Sample No: 289205
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 7.5

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg <u>(Dry Weight)</u>	Instrument Detection <u>Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	2.6	0.78	*	P
Barium	87.0	0.32	N*	P
Cadmium	ND	0.086		P
Chromium	16.5	0.24		P
Lead	8.4	0.45	*	P
Mercury	ND	0.018		CV
Selenium	ND	0.97		P
Silver	ND	0.24		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: FB-1
Site: NJDOT Credit Union

Lab Sample No: 289207
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	Analytical Result <u>Units: ug/l</u>	Instrument Detection <u>Limit</u>	<u>M</u>
Arsenic	ND	3.4	P
Barium	ND	0.80	P
Cadmium	ND	0.40	P
Chromium	ND	2.8	P
Lead	ND	2.2	P
Mercury	ND	0.10	CV
Selenium	ND	3.9	P
Silver	ND	0.70	P

M Column - Method Code (See Section 2 of Report)

Client ID: GW-1
Site: NJDOT Credit Union

Lab Sample No: 289208
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Arsenic	13.6	3.4	P
Barium	2230	0.80	P
Cadmium	ND	0.40	P
Chromium	54.0	2.8	P
Lead	19.9	2.2	P
Mercury	0.13	0.10	CV
Selenium	ND	3.9	P
Silver	ND	0.70	P

M Column - Method Code (See Section 2 of Report)

Client ID: SB-2
Site: NJDOT Credit Union

Lab Sample No: 289209
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 8.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	5.6	0.79	*	P
Barium	55.0	0.33	N*	P
Cadmium	ND	0.088		P
Chromium	19.2	0.24		P
Lead	9.3	0.46	*	P
Mercury	0.02	0.016	B	CV
Selenium	ND	0.99		P
Silver	ND	0.24		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-3
Site: NJDOT Credit Union

Lab Sample No: 289210
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 18.1

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	2.0	0.88	*	P
Barium	157	0.37	N*	P
Cadmium	ND	0.098		P
Chromium	22.1	0.27		P
Lead	5.6	0.51	*	P
Mercury	ND	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.27		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-4
Site: NJDOT Credit Union

Lab Sample No: 289211
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 15.9

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	3.3	0.86	*	P
Barium	627	0.36	N*	P
Cadmium	ND	0.095		P
Chromium	8.3	0.65		P
Lead	ND	1.2	*	P
Mercury	ND	0.020		CV
Selenium	ND	2.7		P
Silver	ND	0.65		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-5
Site: NJDOT Credit Union

Lab Sample No: 289212
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 17.6

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	4.2	0.87	*	P
Barium	107	0.36	N*	P
Cadmium	ND	0.097		P
Chromium	26.8	0.27		P
Lead	8.6	0.51	*	P
Mercury	0.04	0.020	B	CV
Selenium	ND	1.1		P
Silver	ND	0.27		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-6
Site: NJDOT Credit Union

Lab Sample No: 289213
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 16.5

METALS ANALYSIS

<u>Analyte</u>	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	<u>Qual</u>	<u>M</u>
Arsenic	5.3	0.86	*	P
Barium	100	0.36	N*	P
Cadmium	ND	0.096		P
Chromium	15.0	0.26		P
Lead	18.9	0.50	*	P
Mercury	0.06	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-7
Site: NJDOT Credit Union

Lab Sample No: 289214
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 12.0

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	5.1	0.74	*	P
Barium	82.3	0.31	N*	P
Cadmium	ND	0.083		P
Chromium	13.3	0.23		P
Lead	17.4	0.43	*	P
Mercury	0.07	0.019		CV
Selenium	ND	0.93		P
Silver	ND	0.23		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-8
Site: NJDOT Credit Union

Lab Sample No: 289215
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 15.7

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	8.2	0.85	*	P
Barium	61.9	0.36	N*	P
Cadmium	ND	0.095		P
Chromium	22.3	0.26		P
Lead	13.0	0.50	*	P
Mercury	0.05	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: SB-9
Site: NJDOT Credit Union

Lab Sample No: 289216
Lab Job No: M838

Date Sampled: 07/18/01
Date Received: 07/19/01

Matrix: SOLID
Level: LOW
% Moisture: 16.8

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: mg/kg (Dry Weight)</u>	<u>Instrument Detection Limit</u>	<u>Qual</u>	<u>M</u>
Arsenic	7.0	0.87	*	P
Barium	60.1	0.36	N*	P
Cadmium	ND	0.096		P
Chromium	19.7	0.26		P
Lead	14.7	0.50	*	P
Mercury	0.05	0.020		CV
Selenium	ND	1.1		P
Silver	ND	0.26		P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: _M838

Batch No.: 11484_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank		M
			1	C	2	C	3	C		C	
Aluminum											NR
Antimony	3.9	U	3.9	U	3.9	U	3.9	U	3.900	U	P
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U	P
Barium	1.2	B	0.8	U	0.8	U	0.8	U	0.800	U	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Calcium	74.5	U	74.5	U	74.5	U	74.5	U	74.500	U	P
Chromium	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	P
Copper	2.3	B	2.3	B	3.7	B	2.1	U	2.100	U	P
Iron	39.7	U	39.7	U	39.7	U	39.7	U	39.700	U	P
Lead	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Magnesium											NR
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	3.9	U	3.9	U	3.9	U	3.9	U	3.900	U	P
Potassium	189.0	B	195.6	B	207.8	B	106.2	U	132.028	B	P
Selenium	3.9	U	3.9	U	3.9	U	3.9	U	3.900	U	P
Silver	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Sodium	361.0	U	361.0	U	361.0	U	361.0	U	361.000	U	P
Thallium	4.4	U	4.4	U	4.4	U	4.7	B	8.420	B	P
Zinc	5.8	U	5.8	U	5.8	U	5.8	U	5.800	U	P
Molybdenum	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	P
Tin	2.2	U	2.2	U	-2.3	B	2.2	U	2.200	U	P

BLANKS

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838 _____ Batch No.: 11484

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1C	2C	3C		Preparation Blank C	M
Aluminum		-		-		-		NR
Antimony		-	3.9 U	3.9 U	3.9 U	-		P
Arsenic		-	3.4 U	3.4 U	3.4 U	-		P
Barium		-	0.8 U	0.8 U	0.8 U	-		P
Beryllium		-	0.1 U	0.1 U	0.1 U	-		P
Cadmium		-	0.4 U	0.4 U	0.4 U	-		P
Calcium		-	74.5 U	74.5 U	74.5 U	-		P
Chromium		-	2.8 U	2.8 U	2.8 U	-		P
Copper		-	2.2 B	3.5 B	2.9 B	-		P
Iron		-	39.7 U	39.7 U	39.7 U	-		P
Lead		-	2.2 U	2.2 U	2.2 U	-		P
Magnesium		-		-		-		NR
Mercury		-		-		-		NR
Nickel		-	3.9 U	3.9 U	3.9 U	-		P
Potassium		-	106.2 U	106.2 U	106.2 U	-		P
Selenium		-	3.9 U	3.9 U	3.9 U	-		P
Silver		-	0.7 U	0.7 U	0.7 U	-		P
Sodium		-	361.0 U	361.0 U	361.0 U	-		P
Thallium		-	4.9 B	4.7 B	4.4 U	-		P
Zinc		-	5.8 U	5.8 U	5.8 U	-		P
Molybdenu		-	2.8 U	2.8 U	2.8 U	-		P
Tin		-	2.2 U	2.2 U	2.2 U	-		P
		-		-		-		
		-		-		-		
		-		-		-		

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony	4.5	U	4.5	U	4.5	U	4.5	U	0.454	U	P
Arsenic	3.6	U	3.6	U	3.6	U	3.6	U	0.355	U	P
Barium	1.5	U	1.5	U	1.5	U	1.5	U	0.152	U	P
Beryllium	0.2	B	0.3	B	0.4	B	0.4	B	0.054	B	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.037	U	P
Calcium											NR
Chromium	1.2	B	1.8	B	2.9	B	1.5	B	0.186	B	P
Cobalt											NR
Copper	2.7	U	2.7	U	-2.9	B	-3.1	B	-0.738	B	P
Iron											NR
Lead	2.1	U	2.1	U	2.1	U	2.1	U	0.207	U	P
Magnesium											NR
Manganese											NR
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.017	U	CV
Nickel	1.4	U	1.4	U	1.4	U	1.4	U	0.139	U	P
Potassium											NR
Selenium	4.5	U	4.5	U	4.5	U	4.5	U	0.453	U	P
Silver	1.1	U	1.1	U	1.1	U	1.1	U	0.110	U	P
Sodium											NR
Thallium	4.1	U	4.1	U	4.1	U	5.8	B	0.414	U	P
Vanadium	1.9	B	3.0	B	4.1	B	3.1	B	0.424	B	P
Zinc	5.2	U	5.2	U	5.2	U	5.2	U	0.518	U	P
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony			4.5	U	4.5	U	4.5	U			P
Arsenic			3.6	U	3.6	U	3.6	U			P
Barium			1.5	U	1.5	U	1.5	U			P
Beryllium			0.4	B	0.6	B	0.5	B			P
Cadmium			0.4	U	0.4	U	0.4	U			P
Calcium											NR
Chromium			1.3	B	2.4	B	1.3	B			P
Cobalt											NR
Copper			-6.1	B	-7.3	B	-6.8	B			P
Iron											NR
Lead			2.1	U	2.1	U	2.1	U			P
Magnesium											NR
Manganese											NR
Mercury			0.1	U							CV
Nickel			1.4	U	1.4	U	1.4	U			P
Potassium											NR
Selenium			4.5	U	4.5	U	4.5	U			P
Silver			1.1	U	1.1	U	1.1	U			P
Sodium											NR
Thallium			4.1	U	4.1	U	4.1	U			P
Vanadium			4.1	B	4.1	B	4.6	B			P
Zinc			5.2	U	5.2	U	5.2	U			P
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony			4.5	U	4.5	U					P
Arsenic			3.6	U	3.6	U					P
Barium			1.5	U	1.5	U					P
Beryllium			0.5	B	0.2	B					P
Cadmium			0.4	U	0.4	U					P
Calcium											NR
Chromium			2.3	B	1.7	B					P
Cobalt											NR
Copper			-8.2	B	-7.5	B					P
Iron											NR
Lead			3.1	B	2.1	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel			1.4	U	1.4	U					P
Potassium											NR
Selenium			4.5	U	4.5	U					P
Silver			1.1	U	1.1	U					P
Sodium											NR
Thallium			4.1	U	4.1	U					P
Vanadium			5.8	B	4.9	B					P
Zinc			5.2	U	5.2	U					P
Molybdenu											NR

BLANKS

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	1.1	U	1.1	U	1.1	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.1	U	2.1	U	2.1	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	4.5	U	4.5	U	4.5	U					P
Silver	1.1	U	1.1	U	1.1	U					P
Sodium											NR
Thallium	4.1	U	5.1	B	5.8	B					P
Vanadium	-1.8	B	1.3	U	-2.0	B					P
Zinc											NR
Molybdenum											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON

Lab Code: 12543

Lab Job No.: M838

Batch No.: 11484

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony	1000.0	1005.10	100.5	1000.0	1002.57	100.3	1012.73	101.3	P
Arsenic	5000.0	5012.80	100.3	5000.0	5009.30	100.2	5037.62	100.8	P
Barium	10000.0	10098.74	101.0	10000.0	10033.54	100.3	10175.83	101.8	P
Beryllium	1000.0	1002.61	100.3	1000.0	1004.48	100.4	1009.29	100.9	P
Cadmium	2500.0	2500.20	100.0	2500.0	2505.98	100.2	2510.19	100.4	P
Calcium	125000.0	125402.9	100.3	125000.0	125277.5	100.2	125195.1	100.2	P
Chromium	5000.0	5023.76	100.5	5000.0	5042.85	100.9	5019.86	100.4	P
Copper	12500.0	12557.34	100.5	12500.0	12571.41	100.6	12540.32	100.3	P
Iron	100000.0	100069.1	100.1	100000.0	100264.1	100.3	100369.7	100.4	P
Lead	10000.0	9946.26	99.5	10000.0	10027.01	100.3	9982.85	99.8	P
Magnesium									NR
Mercury	5.0	5.02	100.4	5.0	5.17	103.4	5.02	100.4	CV
Nickel	2500.0	2511.16	100.4	2500.0	2514.21	100.6	2519.60	100.8	P
Potassium	50000.0	49607.62	99.2	50000.0	49755.69	99.5	49803.37	99.6	P
Selenium	5000.0	4969.39	99.4	5000.0	4996.32	99.9	5040.91	100.8	P
Silver	1250.0	1257.76	100.6	1250.0	1260.32	100.8	1264.19	101.1	P
Sodium	125000.0	123618.1	98.9	125000.0	124017.5	99.2	124713.0	99.8	P
Thallium	5000.0	4985.12	99.7	5000.0	5013.04	100.3	4989.53	99.8	P
Zinc	2500.0	2502.41	100.1	2500.0	2501.68	100.1	2494.57	99.8	P
Molybdenum	2500.0	2509.87	100.4	2500.0	2502.05	100.1	2504.79	100.2	P
Tin	1000.0	1000.33	100.0	1000.0	990.10	99.0	980.35	98.0	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838 _____ Batch No.: 11484_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony				1000.0	1005.25	100.5	1011.15	101.1	P
Arsenic				5000.0	4983.24	99.7	4996.83	99.9	P
Barium				10000.0	10086.20	100.9	10165.27	101.7	P
Beryllium				1000.0	998.22	99.8	993.99	99.4	P
Cadmium				2500.0	2474.87	99.0	2459.53	98.4	P
Calcium				125000.0	123898.2	99.1	122881.4	98.3	P
Chromium				5000.0	4986.93	99.7	4946.75	98.9	P
Copper				12500.0	12677.97	101.4	12703.99	101.6	P
Iron				100000.0	99462.28	99.5	98764.81	98.8	P
Lead				10000.0	9910.24	99.1	9816.35	98.2	P
Magnesium									NR
Mercury				5.0	5.08	101.6			CV
Nickel				2500.0	2490.95	99.6	2480.54	99.2	P
Potassium				50000.0	50426.95	100.9	50535.62	101.1	P
Selenium				5000.0	4992.54	99.9	4979.77	99.6	P
Silver				1250.0	1270.46	101.6	1272.04	101.8	P
Sodium				125000.0	125724.6	100.6	126270.6	101.0	P
Thallium				5000.0	4975.05	99.5	4948.29	99.0	P
Zinc				2500.0	2448.39	97.9	2420.96	96.8	P
Molybdenum				2500.0	2489.60	99.6	2482.00	99.3	P
Tin				1000.0	975.35	97.5	962.35	96.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11484_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony				1000.0	1022.37	102.2	1012.13	101.2	P
Arsenic				5000.0	5027.61	100.6	5012.22	100.2	P
Barium				10000.0	10256.35	102.6	10178.97	101.8	P
Beryllium				1000.0	1000.89	100.1	997.85	99.8	P
Cadmium				2500.0	2470.64	98.8	2467.14	98.7	P
Calcium				125000.0	123372.0	98.7	123373.6	98.7	P
Chromium				5000.0	4958.56	99.2	4969.52	99.4	P
Copper				12500.0	12694.76	101.6	12737.69	101.9	P
Iron				100000.0	99256.86	99.3	99299.14	99.3	P
Lead				10000.0	9844.95	98.4	9848.52	98.5	P
Magnesium									NR
Mercury									NR
Nickel				2500.0	2489.61	99.6	2487.40	99.5	P
Potassium				50000.0	50876.33	101.8	50983.13	102.0	P
Selenium				5000.0	5039.23	100.8	4999.13	100.0	P
Silver				1250.0	1275.57	102.0	1276.33	102.1	P
Sodium				125000.0	126849.1	101.5	126922.2	101.5	P
Thallium				5000.0	4962.16	99.2	4964.72	99.3	P
Zinc				2500.0	2434.81	97.4	2434.89	97.4	P
Molybdenum				2500.0	2497.02	99.9	2491.22	99.6	P
Tin				1000.0	969.21	96.9	967.68	96.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony	1000.0	1016.26	101.6	1000.0	993.88	99.4	988.54	98.9	P
Arsenic	5000.0	5144.80	102.9	5000.0	5015.34	100.3	5057.46	101.1	P
Barium	10000.0	10090.39	100.9	10000.0	10074.30	100.7	9902.70	99.0	P
Beryllium	1000.0	1012.40	101.2	1000.0	996.98	99.7	1010.54	101.1	P
Cadmium	2500.0	2536.69	101.5	2500.0	2517.65	100.7	2601.43	104.1	P
Calcium									NR
Chromium	5000.0	5028.10	100.6	5000.0	5019.45	100.4	5126.66	102.5	P
Cobalt									NR
Copper	12500.0	12464.08	99.7	12500.0	12434.93	99.5	12167.83	97.3	P
Iron									NR
Lead	10000.0	10138.42	101.4	10000.0	10064.06	100.6	10282.04	102.8	P
Magnesium									NR
Manganese									NR
Mercury	5.0	5.21	104.2	5.0	5.15	103.0	5.15	103.0	CV
Nickel	2500.0	2528.42	101.1	2500.0	2490.98	99.6	2543.21	101.7	P
Potassium									NR
Selenium	5000.0	5217.77	104.4	5000.0	5034.22	100.7	5020.34	100.4	P
Silver	1250.0	1266.95	101.4	1250.0	1258.72	100.7	1239.36	99.1	P
Sodium									NR
Thallium	5000.0	5086.25	101.7	5000.0	4965.39	99.3	5010.91	100.2	P
Vanadium	2500.0	2565.35	102.6	2500.0	2591.09	103.6	2625.77	105.0	P
Zinc	2500.0	2546.51	101.9	2500.0	2501.86	100.1	2514.15	100.6	P
Molybdenum									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony				1000.0	999.28	99.9	1023.52	102.4	P
Arsenic				5000.0	5028.26	100.6	5165.19	103.3	P
Barium				10000.0	10083.08	100.8	9955.22	99.6	P
Beryllium				1000.0	1006.27	100.6	1030.26	103.0	P
Cadmium				2500.0	2547.40	101.9	2604.63	104.2	P
Calcium									NR
Chromium				5000.0	5072.99	101.5	5100.94	102.0	P
Cobalt									NR
Copper				12500.0	12498.42	100.0	12601.46	100.8	P
Iron									NR
Lead				10000.0	10180.12	101.8	10359.44	103.6	P
Magnesium									NR
Manganese									NR
Mercury				5.0	5.12	102.4	5.09	101.8	CV
Nickel				2500.0	2523.16	100.9	2553.92	102.2	P
Potassium									NR
Selenium				5000.0	5024.64	100.5	5169.80	103.4	P
Silver				1250.0	1260.53	100.8	1265.70	101.3	P
Sodium									NR
Thallium				5000.0	4992.96	99.9	5010.83	100.2	P
Vanadium				2500.0	2628.30	105.1	2674.92	107.0	P
Zinc				2500.0	2519.41	100.8	2586.52	103.5	P
Molybdenum									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony				1000.0	1027.93	102.8	984.65	98.5	P
Arsenic				5000.0	5245.47	104.9	4930.92	98.6	P
Barium				10000.0	9928.94	99.3	9959.15	99.6	P
Beryllium				1000.0	1048.13	104.8	999.48	99.9	P
Cadmium				2500.0	2669.59	106.8	2540.65	101.6	P
Calcium									NR
Chromium				5000.0	5196.23	103.9	5069.50	101.4	P
Cobalt									NR
Copper				12500.0	12579.80	100.6	12546.06	100.4	P
Iron									NR
Lead				10000.0	10557.58	105.6	10111.80	101.1	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel				2500.0	2600.10	104.0	2488.76	99.6	P
Potassium									NR
Selenium				5000.0	5208.65	104.2	4928.93	98.6	P
Silver				1250.0	1261.33	100.9	1257.74	100.6	P
Sodium									NR
Thallium				5000.0	5045.45	100.9	4853.84	97.1	P
Vanadium				2500.0	2719.98	108.8	2667.73	106.7	P
Zinc				2500.0	2624.68	105.0	2499.71	100.0	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony				1000.0	1004.68	100.5	986.24	98.6	P
Arsenic				5000.0	5054.41	101.1	4949.51	99.0	P
Barium				10000.0	9950.88	99.5	9770.41	97.7	P
Beryllium				1000.0	1031.94	103.2	1010.06	101.0	P
Cadmium				2500.0	2653.90	106.2	2614.58	104.6	P
Calcium									NR
Chromium				5000.0	5242.86	104.9	5177.40	103.5	P
Cobalt									NR
Copper				12500.0	12757.89	102.1	12642.33	101.1	P
Iron									NR
Lead				10000.0	10471.38	104.7	10317.14	103.2	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel				2500.0	2569.38	102.8	2520.28	100.8	P
Potassium									NR
Selenium				5000.0	5037.32	100.7	4920.02	98.4	P
Silver				1250.0	1261.94	101.0	1257.64	100.6	P
Sodium									NR
Thallium				5000.0	4904.61	98.1	4815.18	96.3	P
Vanadium				2500.0	2769.61	110.8	2743.80	109.8	P
Zinc				2500.0	2577.42	103.1	2529.04	101.2	P
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	5000.0	4961.96	99.2	5000.0	4988.93	99.8	5026.38	100.5	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	9921.54	99.2	10000.0	9921.72	99.2	9950.16	99.5	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium	5000.0	5192.95	103.9	5000.0	5191.86	103.8	5211.01	104.2	P
Silver	1250.0	1279.85	102.4	1250.0	1278.18	102.3	1292.80	103.4	P
Sodium									NR
Thallium	5000.0	5029.36	100.6	5000.0	5061.58	101.2	5112.10	102.2	P
Vanadium	2500.0	2527.82	101.1	2500.0	2503.03	100.1	2517.16	100.7	P
Zinc									NR
Molybdenum									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11484_

ICP ID Number: TRACE2 TJA61

ICS Source: INORG VENT_

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	495514	489140.6	97.8	494570	492287.3	98.5
Antimony		100		104.8	104.8		102.2	102.2
Arsenic		100		99.9	99.9		101.9	101.9
Barium		100		106.1	106.1		105.9	105.9
Beryllium		100		99.3	99.3		99.3	99.3
Cadmium		100		96.8	96.8		97.1	97.1
Calcium	500000	500000	468113	464041.9	92.8	468246	463939.6	92.8
Chromium		100		93.8	93.8		93.8	93.8
Copper		100		106.7	106.7		107.1	107.1
Iron	200000	200000	195307	194317.6	97.2	195271	194312.2	97.2
Lead		100		100.7	100.7		99.8	99.8
Magnesium	500000	500000	520468	514284.1	102.9	519990	518392.2	103.7
Mercury								
Nickel		100		98.4	98.4		98.0	98.0
Potassium		10000		9948.9	99.5		10060.0	100.6
Selenium		100		96.5	96.5		95.6	95.6
Silver		100		103.1	103.1		103.9	103.9
Sodium		10000		9370.3	93.7		9485.1	94.9
Thallium		100		100.1	100.1		96.6	96.6
Zinc		100		99.0	99.0		98.2	98.2
Molybdenum		100		93.1	93.1		95.0	95.0
Tin		100		93.5	93.5		95.4	95.4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11484_

ICP ID Number: TRACE2 TJA61

ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000				498065	489829.7	98.0
Antimony		100					105.0	105.0
Arsenic		100					101.7	101.7
Barium		100					107.0	107.0
Beryllium		100					99.0	99.0
Cadmium		100					96.3	96.3
Calcium	500000	500000				460892	456630.2	91.3
Chromium		100					92.1	92.1
Copper		100					107.1	107.1
Iron	200000	200000				193984	192672.6	96.3
Lead		100					98.3	98.3
Magnesium	500000	500000				528582	520497.1	104.1
Mercury								
Nickel		100					96.7	96.7
Potassium		10000					10063.0	100.6
Selenium		100					94.7	94.7
Silver		100					104.5	104.5
Sodium		10000					9596.0	96.0
Thallium		100					101.2	101.2
Zinc		100					96.5	96.5
Molybdenu		100					93.6	93.6
Tin		100					91.5	91.5

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

ICP ID Number: TRACE1 TJA61

ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	495281	499863.2	100.0	484388	494507.2	98.9
Antimony		100		101.1	101.1		103.3	103.3
Arsenic		100		105.9	105.9		103.5	103.5
Barium		100		109.6	109.6		107.9	107.9
Beryllium		100		100.3	100.3		101.5	101.5
Cadmium		100		102.0	102.0		101.2	101.2
Calcium	500000	500000	500862	503900.3	100.8	525134	525257.0	105.1
Chromium		100		103.8	103.8		107.9	107.9
Cobalt		100		101.0	101.0		102.5	102.5
Copper		100		107.3	107.3		100.2	100.2
Iron	200000	200000	206024	206583.8	103.3	200035	204106.6	102.1
Lead		100		105.7	105.7		108.5	108.5
Magnesium	500000	500000	530469	532730.2	106.5	527461	530793.5	106.2
Manganese		100		105.9	105.9		108.7	108.7
Mercury								
Nickel		100		103.1	103.1		104.4	104.4
Potassium		10000		10378.8	103.8		10608.3	106.1
Selenium		100		100.5	100.5		95.3	95.3
Silver		100		107.9	107.9		105.1	105.1
Sodium		10000		10505.0	105.0		10391.3	103.9
Thallium		100		89.6	89.6		92.4	92.4
Vanadium		100		105.1	105.1		108.4	108.4
Zinc		100		108.0	108.0		107.3	107.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

ICP ID Number: TRACE1 TJA61

ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000				472747	479143.6	95.8
Antimony		100					104.3	104.3
Arsenic		100					103.7	103.7
Barium		100					106.6	106.6
Beryllium		100					102.0	102.0
Cadmium		100					101.0	101.0
Calcium	500000	500000				524357	527000.4	105.4
Chromium		100					108.1	108.1
Cobalt		100					101.1	101.1
Copper		100					99.8	99.8
Iron	200000	200000				179375	180795.8	90.4
Lead		100					109.8	109.8
Magnesium	500000	500000				526300	529453.5	105.9
Manganese		100					110.4	110.4
Mercury								
Nickel		100					103.5	103.5
Potassium		10000					10695.0	107.0
Selenium		100					89.3	89.3
Silver		100					107.0	107.0
Sodium		10000					10349.3	103.5
Thallium		100					83.9	83.9
Vanadium		100					114.7	114.7
Zinc		100					110.1	110.1

ICP INTERFERENCE CHECK SAMPLE

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

ICP ID Number: TRACE1 TJA61

ICS Source: INORG VENT__

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol. A	Sol. AB	Sol. A	Sol. AB	%R	Sol. A	Sol. AB	%R
Aluminum	500000	500000	503031	510841.0	102.2	507340	515582.3	103.1
Antimony		100		98.6	98.6		101.4	101.4
Arsenic		100		102.3	102.3		100.1	100.1
Barium		100		110.3	110.3		111.7	111.7
Beryllium		100		100.7	100.7		99.9	99.9
Cadmium		100		98.8	98.8		97.7	97.7
Calcium	500000	500000	494323	501047.7	100.2	497630	497944.1	99.6
Chromium		100		102.7	102.7		102.6	102.6
Cobalt		100		100.4	100.4		99.7	99.7
Copper		100		106.5	106.5		106.6	106.6
Iron	200000	200000	206345	208709.7	104.4	211094	212670.8	106.3
Lead		100		99.5	99.5		96.4	96.4
Magnesium	500000	500000	525331	532864.5	106.6	529775	531652.9	106.3
Manganese		100		105.3	105.3		104.1	104.1
Mercury								
Nickel		100		101.0	101.0		101.4	101.4
Potassium		10000		11279.1	112.8		11249.1	112.5
Selenium		100		104.1	104.1		101.8	101.8
Silver		100		107.2	107.2		107.8	107.8
Sodium		10000		10771.1	107.7		10701.0	107.0
Thallium		100		97.9	97.9		96.3	96.3
Vanadium		100		104.2	104.2		102.7	102.7
Zinc		100		105.1	105.1		103.5	103.5

Spike Sample Recovery Summary

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSW072001

Lab Name: STL_EDISON

Lab Code: 12543

Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	80-120	500.0400		3.9000	U	500.00	100.0		P
Arsenic	80-120	1988.8900		3.4000	U	2000.00	99.4		P
Barium	80-120	2040.1750		0.8000	U	2000.00	102.0		P
Beryllium	80-120	52.2870		0.1000	U	50.00	104.6		P
Cadmium	80-120	50.4170		0.4000	U	50.00	100.8		P
Calcium	80-120	20325.5180		74.5000	U	20000.00	101.6		P
Chromium	80-120	203.2430		2.8000	U	200.00	101.6		P
Copper	80-120	253.9010		2.1000	U	250.00	101.6		P
Iron	80-120	1026.1240		39.7000	U	1000.00	102.6		P
Lead	80-120	499.9350		2.2000	U	500.00	100.0		P
Magnesium									NR
Mercury	80-120	1.1000		0.1000	U	1.00	110.0		CV
Nickel	80-120	507.7330		3.9000	U	500.00	101.5		P
Potassium	80-120	17420.0940		132.0280	B	20000.00	86.4		P
Selenium	80-120	1992.6790		3.9000	U	2000.00	99.6		P
Silver	80-120	49.8590		0.7000	U	50.00	99.7		P
Sodium	80-120	19269.2890		361.0000	U	20000.00	96.3		P
Thallium	80-120	2000.6520		8.4200	B	2000.00	99.6		P
Zinc	80-120	516.0240		5.8000	U	500.00	103.2		P
Molybdenum	80-120	515.6630		2.8000	U	500.00	103.1		P
Tin	80-120	496.0590		2.2000	U	500.00	99.2		P

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

Lab Name: STL_EDISON

289405MS

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	80-120	487.9590	3.9000 U	500.00	97.6		P
Arsenic	80-120	1957.9030	3.4000 U	2000.00	97.9		P
Barium	80-120	2007.9900	0.8000 U	2000.00	100.4		P
Beryllium	80-120	51.3800	0.1000 U	50.00	102.8		P
Cadmium	80-120	49.6220	0.4000 U	50.00	99.2		P
Calcium	80-120	20208.4000	228.3050 B	20000.00	99.9		P
Chromium	80-120	202.2520	2.8000 U	200.00	101.1		P
Copper	80-120	252.0500	3.6660 B	250.00	99.4		P
Iron	80-120	1428.8040	434.6580	1000.00	99.4		P
Lead	80-120	495.7010	2.2000 U	500.00	99.1		P
Magnesium							NR
Mercury	80-120	1.1700	0.1000 U	1.00	117.0		CV
Nickel	80-120	500.1860	3.9000 U	500.00	100.0		P
Potassium	80-120	17255.2890	106.2000 U	20000.00	86.3		P
Selenium	80-120	1954.0670	3.9000 U	2000.00	97.7		P
Silver	80-120	48.8840	0.7000 U	50.00	97.8		P
Sodium	80-120	19066.6560	361.0000 U	20000.00	95.3		P
Thallium	80-120	1975.0540	4.4000 U	2000.00	98.8		P
Zinc	80-120	514.2080	18.8710 B	500.00	99.1		P
Molybdenum	80-120	508.2720	2.8000 U	500.00	101.7		P
Tin	80-120	486.5860	2.2000 U	500.00	97.3		P

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

289405MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	80-120	501.1420	3.9000 U	500.00	100.2		P
Arsenic	80-120	1988.4470	3.4000 U	2000.00	99.4		P
Barium	80-120	2071.6980	0.8000 U	2000.00	103.6		P
Beryllium	80-120	52.1020	0.1000 U	50.00	104.2		P
Cadmium	80-120	49.9040	0.4000 U	50.00	99.8		P
Calcium	80-120	20303.8200	228.3050 B	20000.00	100.4		P
Chromium	80-120	202.8940	2.8000 U	200.00	101.4		P
Copper	80-120	254.3860	3.6660 B	250.00	100.3		P
Iron	80-120	1442.5070	434.6580	1000.00	100.8		P
Lead	80-120	494.9450	2.2000 U	500.00	99.0		P
Magnesium							NR
Mercury	80-120	1.1000	0.1000 U	1.00	110.0		CV
Nickel	80-120	507.3570	3.9000 U	500.00	101.5		P
Potassium	80-120	17570.9530	106.2000 U	20000.00	87.9		P
Selenium	80-120	2000.2290	3.9000 U	2000.00	100.0		P
Silver	80-120	49.7090	0.7000 U	50.00	99.4		P
Sodium	80-120	19416.7930	361.0000 U	20000.00	97.1		P
Thallium	80-120	1987.3590	4.4000 U	2000.00	99.4		P
Zinc	80-120	509.6930	18.8710 B	500.00	98.2		P
Molybdenum	80-120	515.4740	2.8000 U	500.00	103.1		P
Tin	80-120	489.2430	2.2000 U	500.00	97.8		P

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

Lab Name: STL_EDISON_____

BSS072401_____

Lab Code: 12543_____ Lab Job No.: M838

Batch No.: 11493_____

Matrix (soil/water): SOIL_____

Level (low/med): LOW_____

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							
Antimony	75-125	47.7330	0.4540 U	50.00	95.5		NR
Arsenic	75-125	194.0554	0.3550 U	200.00	97.0		P
Barium	75-125	189.5948	0.1520 U	200.00	94.8		P
Beryllium	75-125	5.2581	0.0540 B	5.00	104.1		P
Cadmium	75-125	5.0388	0.0370 U	5.00	100.8		P
Calcium							
Chromium	75-125	20.3199	0.1858 B	20.00	100.7		NR
Cobalt							P
Copper	75-125	23.4271	0.2700 U	25.00	93.7		NR
Iron							P
Lead	75-125	49.7860	0.2070 U	50.00	99.6		NR
Magnesium							P
Manganese							NR
Mercury							NR
Nickel	75-125	49.4296	0.1390 U	50.00	98.9		NR
Potassium							P
Selenium	75-125	189.8965	0.4530 U	200.00	94.9		NR
Silver	75-125	4.6147	0.1100 U	5.00	92.3		P
Sodium							P
Thallium	75-125	189.0272	0.4140 U	200.00	94.5		NR
Vanadium	75-125	51.3768	0.4240 B	50.00	101.9		P
Zinc	75-125	55.5104	0.5180 U	50.00	111.0		P
Molybdenum							NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

BSS072501

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury	75-125	0.1850	0.0167 U	0.17	108.8		CV
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Molybdenum							NR

Comments:

SPIKE SAMPLE RECOVERY

289211MS

Lab Name: STL_EDISON

Lab Code: 12543

Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	34.8647	1.0797 U	59.45	58.6	N	P
Arsenic	75-125	215.5018	3.3370	237.81	89.2		P
Barium	75-125	729.2133	626.8376	237.81	43.0	N	P
Beryllium	75-125	7.0416	1.8882	5.95	86.6		P
Cadmium	75-125	5.4537	0.0880 U	5.95	91.7		P
Calcium							NR
Chromium	75-125	30.5981	8.3044	23.78	93.7		P
Cobalt							NR
Copper	75-125	35.1298	10.2010	29.73	83.9		P
Iron							NR
Lead	75-125	59.9572	1.2307 U	59.45	100.9		P
Magnesium							NR
Manganese							NR
Mercury	75-125	0.2200	0.0198 U	0.20	110.0		CV
Nickel	75-125	59.9798	5.1249 B	59.45	92.3		P
Potassium							NR
Selenium	75-125	233.9631	2.6932 U	237.81	98.4		P
Silver	75-125	5.4257 B	0.6540 U	5.95	91.2		P
Sodium							NR
Thallium	75-125	237.1558	2.4614 U	237.81	99.7		P
Vanadium	75-125	72.6820	16.0779 B	59.45	95.2		P
Zinc	75-125	65.7577	10.0782	59.45	93.7		P
Molybdenum							NR

Comments:

SPIKE SAMPLE RECOVERY

LAB SAMPLE NO.

289211MSD

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	35.0017	1.0797 U	59.45	58.9	N	P
Arsenic	75-125	215.7534	3.3370	237.81	89.3		P
Barium	75-125	825.8364	626.8376	237.81	83.7		P
Beryllium	75-125	6.9917	1.8882	5.95	85.8		P
Cadmium	75-125	5.5210	0.0880 U	5.95	92.8		P
Calcium							NR
Chromium	75-125	30.7039	8.3044	23.78	94.2		P
Cobalt							NR
Copper	75-125	37.6687	10.2010	29.73	92.4		P
Iron							NR
Lead	75-125	58.0333	1.2307 U	59.45	97.6		P
Magnesium							NR
Manganese							NR
Mercury	75-125	0.2220	0.0198 U	0.20	111.0		CV
Nickel	75-125	60.4977	5.1249 B	59.45	93.1		P
Potassium							NR
Selenium	75-125	231.1433	2.6932 U	237.81	97.2		P
Silver	75-125	5.5143 B	0.6540 U	5.95	92.7		P
Sodium							NR
Thallium	75-125	233.3888	2.4614 U	237.81	98.1		P
Vanadium	75-125	72.7610	16.0779 B	59.45	95.3		P
Zinc	75-125	66.6152	10.0782	59.45	95.1		P
Molybdenu							NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

289405D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		3.9000	U	3.9000	U			P
Arsenic		3.4000	U	3.4000	U			P
Barium		0.8000	U	0.8000	U			P
Beryllium		0.1000	U	0.1000	U			P
Cadmium		0.4000	U	0.4000	U			P
Calcium		228.3050	B	219.6080	B	3.9		P
Chromium		2.8000	U	2.8000	U			P
Copper		3.6660	B	2.2830	B	46.5		P
Iron	150.0	434.6580		424.1190		2.5		P
Lead		2.2000	U	2.2000	U			P
Magnesium								NR
Mercury		0.1000	U	0.1000	U			CV
Nickel		3.9000	U	3.9000	U			P
Potassium		106.2000	U	135.4560	B	200.0		P
Selenium		3.9000	U	3.9000	U			P
Silver		0.7000	U	0.7000	U			P
Sodium		361.0000	U	361.0000	U			P
Thallium		4.4000	U	4.4000	U			P
Zinc		18.8710	B	9.5520	B	65.6		P
Molybdenum		2.8000	U	2.8000	U			P
Tin		2.2000	U	2.7910	B	200.0		P

DUPLICATES

LAB SAMPLE NO.

289405MS/MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum						NR
Antimony		487.9590	501.1420	2.7		P
Arsenic		1957.9030	1988.4470	1.5		P
Barium		2007.9900	2071.6980	3.1		P
Beryllium		51.3800	52.1020	1.4		P
Cadmium		49.6220	49.9040	0.6		P
Calcium	5000.0	20208.4000	20303.8200	0.5		P
Chromium		202.2520	202.8940	0.3		P
Copper		252.0500	254.3860	0.9		P
Iron		1428.8040	1442.5070	1.0		P
Lead		495.7010	494.9450	0.2		P
Magnesium						NR
Mercury		1.1700	1.1000	6.2		CV
Nickel		500.1860	507.3570	1.4		P
Potassium	5000.0	17255.2890	17570.9530	1.8		P
Selenium		1954.0670	2000.2290	2.3		P
Silver	10.0	48.8840	49.7090	1.7		P
Sodium	5000.0	19066.6560	19416.7930	1.8		P
Thallium		1975.0540	1987.3590	0.6		P
Zinc		514.2080	509.6930	0.9		P
Molybdenu		508.2720	515.4740	1.4		P
Tin		486.5860	489.2430	0.5		P

DUPLICATES

LAB SAMPLE NO.

LCSS-248-D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 100.0

% Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum						NR
Antimony		56.9694	58.0208	1.8		P
Arsenic		48.3872	49.2624	1.8		P
Barium		477.1570	510.0690	6.7		P
Beryllium		58.2052	59.7564	2.6		P
Cadmium		164.5380	168.4924	2.4		P
Calcium						NR
Chromium		51.2194	53.7984	4.9		P
Cobalt						NR
Copper		64.5862	68.1354	5.3		P
Iron						NR
Lead		187.1704	196.3908	4.8		P
Magnesium						NR
Manganese						NR
Mercury		6.1417	6.1583	0.3		CV
Nickel		114.5882	116.4516	1.6		P
Potassium						NR
Selenium		107.3242	109.1218	1.7		P
Silver		83.0144	86.5268	4.1		P
Sodium						NR
Thallium		65.6150	68.6050	4.5		P
Vanadium		143.7752	149.7488	4.1		P
Zinc		293.0440	307.3484	4.8		P
Molybdenu						NR

DUPLICATES

LAB SAMPLE NO.

289211D

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.1

% Solids for Duplicate: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		1.0797	U	1.0797	U			P
Arsenic	0.6	3.3370		2.6273		23.8	*	P
Barium		626.8376		901.5541		35.9	*	P
Beryllium		1.8882		1.6737		12.0		P
Cadmium		0.0880	U	0.0880	U			P
Calcium								NR
Chromium		8.3044		8.0363		3.3		P
Cobalt								NR
Copper	3.0	10.2010		15.3931		40.6	*	P
Iron								NR
Lead	0.6	1.2307	U	2.4667	B	200.0	*	P
Magnesium								NR
Manganese								NR
Mercury		0.0198	U	0.0198	U			CV
Nickel	4.8	5.1249	B	6.8212	B	28.4		P
Potassium								NR
Selenium		2.6932	U	2.6932	U			P
Silver		0.6540	U	0.6540	U			P
Sodium								NR
Thallium		2.4614	U	2.4614	U			P
Vanadium	5.9	16.0779	B	16.7039		3.8		P
Zinc	3.6	10.0782		10.5527		4.6		P
Molybdenum								NR

DUPLICATES

LAB SAMPLE NO.

289211MS/MS

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11493

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 84.1

% Solids for Duplicate: 84.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony		34.8647		35.0017		0.4		P
Arsenic		215.5018		215.7534		0.1		P
Barium		729.2133		825.8364		12.4		P
Beryllium		7.0416		6.9917		0.7		P
Cadmium		5.4537		5.5210		1.2		P
Calcium								NR
Chromium		30.5981		30.7039		0.3		P
Cobalt								NR
Copper		35.1298		37.6687		7.0		P
Iron								NR
Lead		59.9572		58.0333		3.3		P
Magnesium								NR
Manganese								NR
Mercury		0.2200		0.2220		0.9		CV
Nickel		59.9798		60.4977		0.9		P
Potassium								NR
Selenium		233.9631		231.1433		1.2		P
Silver	1.2	5.4257	B	5.5143	B	1.6		P
Sodium								NR
Thallium		237.1558		233.3888		1.6		P
Vanadium		72.6820		72.7610		0.1		P
Zinc		65.7577		66.6152		1.3		P
Molybdenu								NR

Laboratory Control Samples Results Summary

Batch No.: 11484

Aqueous LCS Source: INORG VENT

LABORATORY CONTROL SAMPLE

Lab Name: STL_EDISON_____

Lab Code: 12543_ Lab Job No.: _M838

Batch No.: 11493_

Solid LCS Source: ERA_____

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L)			Solid (mg/kg)					%R
	True	Found	%R	True	Found	C	Limits		
Aluminum									
Antimony				62.7	57.0	-	17.1	141.0	90.9
Arsenic				47.5	48.4	-	34.4	60.6	101.9
Barium				509.0	477.2	-	392.0	626.0	93.8
Beryllium				55.9	58.2	-	43.8	68.2	104.1
Cadmium				157.0	164.5	-	118.0	196.0	104.8
Calcium									
Chromium				51.4	51.2	-	39.0	63.7	99.6
Cobalt									
Copper				69.5	64.6	-	56.9	82.0	92.9
Iron									
Lead				186.0	187.2	-	139.0	233.0	100.6
Magnesium									
Manganese									
Mercury				6.2	6.1	-	4.2	8.2	98.4
Nickel				112.0	114.6	-	87.6	137.0	102.3
Potassium									
Selenium				109.0	107.3	-	81.0	138.0	98.4
Silver				84.3	83.0	-	54.2	114.0	98.5
Sodium									
Thallium				66.2	65.6	-	37.9	94.7	99.1
Vanadium				136.0	143.8	-	92.6	179.0	105.7
Zinc				289.0	293.0	-	224.0	356.0	101.4
Molybdenum									

Serial Dilution Summary

ICP SERIAL DILUTION

LAB SAMPLE NO.

289405L

Lab Name: STL_EDISON

Lab Code: 12543 Lab Job No.: M838

Batch No.: 11484

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum							NR
Antimony	3.90	U	19.50	U			P
Arsenic	3.40	U	17.00	U			P
Barium	0.80	U	4.00	U			P
Beryllium	0.10	U	0.50	U			P
Cadmium	0.40	U	2.00	U			P
Calcium	228.30	B	372.50	U	100.0		P
Chromium	2.80	U	14.00	U			P
Copper	3.67	B	10.50	U	100.0		P
Iron	434.66		395.74	B	9.0		P
Lead	2.20	U	11.00	U			P
Magnesium							NR
Mercury							NR
Nickel	3.90	U	19.50	U			P
Potassium	106.20	U	845.18	B			P
Selenium	3.90	U	19.50	U			P
Silver	0.70	U	3.50	U			P
Sodium	361.00	U	1805.00	U			P
Thallium	4.40	U	22.00	U			P
Zinc	18.87	B	29.00	U	100.0		P
Molybdenum	2.80	U	14.00	U			P
Tin	2.20	U	11.00	U			P

ICP SERIAL DILUTION

LAB SAMPLE NO.

289211L

Lab Name: STL_EDISON

Lab Code: 12543_ Lab Job No.: M838

Batch No.: 11493_

Matrix (soil/water): SOIL_

Level (low/med): LOW_

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum							NR
Antimony	4.54	U	22.70	U			P
Arsenic	14.03		22.47	B	60.2		P
Barium	2635.85		2751.88		4.4		P
Beryllium	7.94		9.57	B	20.5		P
Cadmium	0.37	U	1.85	U			P
Calcium							NR
Chromium	13.97		13.40	B	4.1		P
Cobalt							NR
Copper	42.90		19.68	B	54.1		P
Iron							NR
Lead	2.07	U	10.35	U			P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel	21.55	B	21.92	B	1.7		P
Potassium							NR
Selenium	4.53	U	22.65	U			P
Silver	1.10	U	5.50	U			P
Sodium							NR
Thallium	4.14	U	20.70	U			P
Vanadium	27.04	B	16.84	B	37.7		P
Zinc	42.38		60.63	B	43.1		P

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: STL_EDISON

Contract: _____

Lab Code: 12543 Case No.: _____

SAS No.: _____ SDG No.: 11484

Instrument ID Number: TRACE2 TJA61

Method: P

Start Date: 07/20/01

End Date: 07/20/01

EPA Sample No.	D/F	Time	% R	Analytes																				
				A L	S B	A S	B A	B E	C D	C A	C R	C U	F E	P B	M G	H G	N I	K	S E	A G	N A	T L	Z N	M O
2CAL-BLK	1.00	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
T2CAL1	1.00	1036		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
T2CAL2	1.00	1041		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
T2CAL3	1.00	1047		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1054																						
ICV/CCV	1.00	1100			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ICB/CCB	1.00	1105			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ICSA	1.00	1111			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ICSAB	1.00	1116			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1121																						
ZZZZZZ	1.00	1127																						
ZZZZZZ	1.00	1132																						
ZZZZZZ	1.00	1138																						
ZZZZZZ	1.00	1143																						
ZZZZZZ	1.00	1149																						
ZZZZZZ	1.00	1154																						
ZZZZZZ	1.00	1159																						
CCV	1.00	1205			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
CCB	1.00	1210			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1216																						
ZZZZZZ	1.00	1221																						
ZZZZZZ	1.00	1226																						
ICSA	1.00	1232			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ICSAB	1.00	1237			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
CCV	1.00	1243			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
CCB	1.00	1248			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
289367	1.00	1331			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
SW072001	1.00	1336			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
BW072001	1.00	1345			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
LCSW	1.00	1351			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
289405D	1.00	1356			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
ZZZZZZ	1.00	1401																						

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.: 11484_

Instrument ID Number: TRACE2 TJA61_

Method: P_

Start Date: 07/20/01

End Date: 07/20/01

EPA Sample No.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C U	F E	P B	M G	H G	N I	K	S E	A G	N A	T L	Z N	M O	S N
289405L	1.00	1407		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
289405MS	1.00	1412		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
ZZZZZZ	1.00	1418		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1423		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1429		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1434		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
289207	1.00	1440		-	-	X	X	-	X	-	X	-	-	X	-	-	-	-	X	X	-	-	-	-	-
289208	1.00	1445		-	-	X	X	-	X	-	X	-	-	X	-	-	-	-	X	X	-	-	-	-	-
289347	1.00	1450		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289348	1.00	1456		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289349	1.00	1501		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289350	1.00	1507		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289351	1.00	1512		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289352	1.00	1518		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
289406	1.00	1523		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
288360	1.00	1528		-	-	X	-	X	X	-	X	X	X	-	-	-	X	-	X	X	-	X	X	-	-
CCV	1.00	1534		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1539		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
288361	1.00	1545		-	-	-	-	-	X	-	X	X	X	-	-	-	X	-	-	-	X	-	-	-	-
289182	1.00	1550		-	-	-	-	-	X	-	X	X	-	X	-	-	X	-	X	-	X	-	-	-	-
289238	1.00	1556		-	-	-	-	-	X	X	X	X	-	X	-	-	X	X	-	-	X	-	-	X	-
289239	1.00	1601		-	-	-	-	-	X	X	X	X	-	X	-	-	X	X	-	-	X	-	-	X	-
289289	1.00	1606		-	-	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-	-	X	X	-
289370	1.00	1612		-	-	X	-	-	X	-	X	X	X	X	-	-	-	-	-	-	-	X	X	-	-
289405	1.00	1623		-	X	X	-	X	X	-	X	X	-	X	-	-	X	-	X	X	-	X	X	-	-
89405MSD	1.00	1629		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCV	1.00	1634		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1640		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
ICSA	1.00	1645		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
ICSAB	1.00	1651		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCV	1.00	1656		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-
CCB	1.00	1702		-	X	X	X	X	X	X	X	X	X	X	-	-	X	X	X	X	X	X	X	X	-

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.: 11484_

Instrument ID Number: LEEMANPS200-__

Method: CV

Start Date: 07/20/01

End Date: 07/20/01

EPA Sample No.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C U	F E	P B	M G	H G	N I	K	S E	A G	N A	T L	Z N	M O	S N	
STD1	1.00	1049		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
STD2	1.00	1051		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
STD3	1.00	1054		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
STD4	1.00	1056		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
STD5	1.00	1059		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
STD6	1.00	1102		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
ICV/ACCV	1.00	1105		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
ICB/CCB	1.00	1107		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
BW072001	1.00	1110		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
SW072001	1.00	1113		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
LCSW	1.00	1115		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289405	1.00	1117		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289405D	1.00	1120		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289405MS	1.00	1122		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
89405MSD	1.00	1125		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289367	1.00	1128		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1130		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1133		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289207	1.00	1135		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289208	1.00	1138		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289347	1.00	1140		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289348	1.00	1143		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289349	1.00	1145		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289350	1.00	1148		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289351	1.00	1150		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289352	1.00	1153		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289406	1.00	1155		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
288360	1.00	1158		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1200		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
CCB	1.00	1202		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289182	1.00	1205		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-
289238	1.00	1208		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-

Contract: _____

SAS No.: SDG No.:11484

Method: CV

End Date: 07/20/01

EPA Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C U	F E	P B	M G	H G	N I	K	S E	A G	N A	T L	Z N	M O	S N						
289239	1.00	1210		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-				
289289	1.00	1212		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-				
289370	1.00	1215		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-				
CCV	1.00	1217		-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-				
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				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
				-</																											



ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.: 11493_

Instrument ID Number: TRACE1 TJA61_

Method: P_

Start Date: 07/24/01

End Date: 07/24/01

Lab Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	M O
1CAL-BLK	1.00	1331		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
T1CAL1	1.00	1336		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
T1CAL2	1.00	1342		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
T1CAL3	1.00	1347		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1352																									
ICV/CCV	1.00	1358			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ICB/CCB	1.00	1403			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ICSA	1.00	1408			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ICSAB	1.00	1413			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ZZZZZZ	1.00	1424																									
ZZZZZZ	1.00	1429																									
ZZZZZZ	1.00	1434																									
ZZZZZZ	1.00	1440																									
ZZZZZZ	5.00	1445																									
ZZZZZZ	5.00	1450																									
ZZZZZZ	5.00	1456																									
ZZZZZZ	5.00	1501																									
CCV	1.00	1506			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
CCB	1.00	1512			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ZZZZZZ	5.00	1517																									
ZZZZZZ	5.00	1522																									
ZZZZZZ	5.00	1527																									
ZZZZZZ	5.00	1533																									
ZZZZZZ	5.00	1538																									
ZZZZZZ	5.00	1543																									
ZZZZZZ	5.00	1549																									
ZZZZZZ	5.00	1554																									
ICSA	1.00	1559			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ICSAB	1.00	1604			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
CCV	1.00	1610			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
CCB	1.00	1615			X	X	X	X	X		X		X				X		X	X	X	X	X	X	X		
ZZZZZZ	1.00	1620																									

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.: 11493_

Instrument ID Number: TRACE1 TJA61_

Method: P_

Start Date: 07/24/01

End Date: 07/24/01

Lab Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z	M O
ZZZZZZ	1.00	1626		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1631		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1636		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1641		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1647		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1652		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1657		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1703		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1708		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1713		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
CCB	1.00	1718		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
ZZZZZZ	1.00	1724		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1729		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1734		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1750		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1756		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1801		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1806		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1811		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1817		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
CCB	1.00	1822		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
ZZZZZZ	1.00	1827		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1833		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1838		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
CCB	1.00	1843		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
SS072401	1.00	1849		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
BS072401	1.00	1854		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
LCSS-248	2.00	1859		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
SS-248-D	2.00	1905		-	X	X	X	X	X	-	X	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-
289211D	2.00	1910		-	X	X	X	X	X	-	-	-	X	-	-	-	-	-	X	-	-	-	-	X	X	X	-

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.: 11493_

Instrument ID Number: TRACE1 TJA61_

Method: P_

Start Date: 07/24/01

End Date: 07/24/01

Lab Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	M O
289211	2.00	1915		-	-	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
289211L	2.00	1921		-	X	X	X	X	X	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	X	-	
289211MS	2.00	1926		-	X	X	X	X	X	-	-	-	X	-	-	-	-	X	-	-	-	-	-	X	X	-	
89211MSD	2.00	1931		-	X	X	X	X	X	-	-	-	X	-	-	-	-	X	-	-	-	-	-	X	X	-	
ZZZZZZ	2.00	1937		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CCV	1.00	1942		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
CCB	1.00	1947		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
288548	2.00	1953		-	X	X	X	-	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289205	2.00	1958		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289209	2.00	2003		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289210	2.00	2009		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289212	2.00	2014		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289213	2.00	2019		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289214	2.00	2025		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289215	2.00	2030		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289216	2.00	2035		-	-	X	X	-	X	-	-	X	-	X	-	-	-	-	-	X	X	-	-	-	-	-	
289723	2.00	2041		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
CCV	1.00	2046		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
CCB	1.00	2051		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289725	2.00	2057		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289726	2.00	2102		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289730	2.00	2107		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289731	2.00	2112		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289395	2.00	2118		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289398	2.00	2123		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289400	2.00	2128		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
289401	2.00	2134		-	X	X	-	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
ICSA	1.00	2139		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
ICSAB	1.00	2144		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
CCV	1.00	2150		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	
CCB	1.00	2155		-	X	X	X	X	X	-	-	X	-	X	-	-	-	X	-	X	X	-	X	X	X	-	

End Date: 07/25/01

[illegible]

ANALYSIS RUN LOG

Lab Name: STL_EDISON_____

Contract: _____

Lab Code: 12543_ Case No.: _____

SAS No.: _____ SDG No.:11493_

Instrument ID Number: LEEMAN PS200_

Method: CV

Start Date: 07/25/01

End Date: 07/25/01

Lab Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	M O
STD1	1.00	1442		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
STD2	1.00	1445		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
STD3	1.00	1448		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
STD4	1.00	1451		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
STD5	1.00	1453		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
STD6	1.00	1456		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICV/ACCV	1.00	1459		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ICB/CCB	1.00	1502		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
BS072501	1.00	1504		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
SS072501	1.00	1507		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
LCSS-248	5.00	1510		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
SS-248-D	5.00	1512		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289211	1.00	1515		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289211D	1.00	1518		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289211MS	1.00	1520		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
89211MSD	1.00	1523		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1526		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1528		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV	1.00	1531		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1534		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289209	1.00	1536		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289210	1.00	1539		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289212	1.00	1542		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289213	1.00	1544		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289214	1.00	1547		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289215	1.00	1549		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289216	1.00	1552		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289723	1.00	1555		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289725	1.00	1557		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
289726	1.00	1600		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCV	1.00	1603		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB	1.00	1605		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-

ANALYSIS RUN LOG

Lab Name: STL EDISON

Contract :

Lab Code: 12543 Case No.:

SAS No.: SDG No.:11493

Instrument ID Number: LEEMAN PS200

Method: CV

Start Date: 07/25/01

End Date: 07/25/01

[illegible]

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