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SUPPLEMENTAL SITE ASSESSMENT LETTER REPORT FOR OCALA F-18 CRASH SITE

NAS CECIL FIELD FL

8/3/2005

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Project Number N4093

Mr. David Grabka
Remedial Project Manager
Technical Review/Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: CLEAN III Contract Number N62467-94-D-0888
Contract Task Order (CTO) Number 0209

Subject: Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) has completed a supplemental site assessment at the Ocala F-18 Crash Site and is pleased to submit this letter report in accordance with the referenced CTO. This letter report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command (NAVFAC EFD SOUTH) under the Comprehensive Long-term Environmental Action Navy (CLEAN) III Contract Number N62467-94-D-0888.

BACKGROUND

The Ocala F-18 Crash Site is located in the Ocala National Forest approximately 82 miles south of Naval Air Station Cecil Field, Jacksonville, Florida and approximately 22 miles southeast of Ocala, Florida. The location of the crash site is presented on Figure 1.

In June 1994, a Navy F-18 jet crashed in the Ocala National Forest. A site assessment and initial remedial action was conducted by Bechtel Environmental, Inc. (BEI) (BEI, 1994). In September 1997, Harding Lawson Associates (HLA) sampled monitoring wells CEF-CS1A, CEF-CS2, and CEF-CS3 to reassess the groundwater quality at the site. Concentrations of benzene, ethylbenzene, total xylenes, and naphthalene detected in monitoring well CEF-CS1A exceeded Groundwater Cleanup Target Levels (GCTLs) cited in Chapter 62-777, Florida Administrative Code (FAC). An additional monitoring well (CEF-CS7) was installed on November 20, 1997, to assess downgradient groundwater quality. Following approval of monitoring only natural attenuation (MONA), HLA recommended semi-annual monitoring in their final (annual) report (HLA, 1999). HLA submitted a MONA to the Florida Department of Environmental Protection (FDEP) dated January 20, 1998. The MONA was subsequently revised and approved in April 1998 (see Attachment A). HLA performed quarterly groundwater monitoring from May 4, 1998, through February 22, 1999. During the third year of monitoring in October 2002, TtNUS recommended preparation of a treatability study to use innovative technology to remediate the site since the contaminants of concern (COCs) had not decreased in concentration (TtNUS, 2002). Monitoring continued in April 2003 (TtNUS, 2003), and the COCs appeared to be within milestones set by the MONA

order; therefore, continued monitoring was recommended. However, the FDEP reviewed the Monitoring Only Plan Report and stated that five years had transpired without a decrease in COCs below GCTLs. The response from the FDEP required an additional well directly downgradient of the source well concurrent with sampling, reporting, and recommendations. Considering the remoteness of the site and the need for tighter delineation of the plume that is centered on well CEF-CS1A, TtNUS mobilized to the site to install three perimeter wells (one upgradient, one sidegradient, and one downgradient).

FIELD OPERATIONS

Field operations were performed in general accordance with the Base-Wide Generic Work Plan; Project Operations Plan (POP), Volume II (TtNUS, 1998); and the TtNUS Standard Operating Procedures contained in the POP.

On January 17 and 18, 2005, TtNUS personnel mobilized to the site to supervise the installation and development of three permanent monitoring wells. The shallow groundwater monitoring wells (CEF-CS8, CEF-CS9, and CEF-CS10) were installed to further delineate the horizontal extent of the dissolved hydrocarbon plume. The well borings were advanced with hollow stem augers to a total depth of 30 feet (ft) below grade. The three wells were each constructed with 15 ft of 0.010-inch machine-slot screen and completed with stick up aluminum protective covers. The Boring Logs, Monitoring Well (Construction) Sheets, Certificates of Conformance, and Monitoring Well Development Records for each well are provided in Attachment B. On January 18, 2005, TtNUS personnel also collected water samples from the following monitoring wells: CEF-CS3, CEF-CS4, CEF-CS5, and CEF-CS7. On January 19, 2005, TtNUS personnel returned to the site to complete the sampling event with the following wells: source well CEF-CS1A; perimeter wells CEF-CS2, CEF-CS8, CEF-CS9, and CEF-CS10; and vertical-extent well CEF-CS6. On January 19, 2005, prior to collecting samples, the depth to water was measured in each well using an electronic water level indicator. After gauging the wells, the remaining wells were purged. Subsequent to purging, groundwater samples were collected from each well and placed on ice. Following the completion of sampling on January 19, 2005, the full set of samples were shipped under chain of custody to Mitkem Laboratories for analysis. The samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260B and for polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270C Selected Ion Method (SIM).

RESULTS

The depth to water in the monitoring wells ranged from 20.73 to 23.71 ft below top of casing (btoc). The depth-to-water measurements, along with top-of-casing elevations, were used to calculate groundwater elevations. TtNUS personnel also conducted a relative survey of the new wells and two existing wells to provide top-of-casing elevation information for the new wells. Attachment C contains the groundwater level measurement data and the elevation survey calculations to show how the top-of-casing elevations were derived for use in Table 1. The groundwater elevation data were used to estimate the groundwater flow direction. Using the data collected on January 19, 2005, the groundwater flow direction was estimated to the northeast. The groundwater elevations are summarized in Table 1. The groundwater flow direction is depicted on Figure 2.

In source area monitoring well CEF-CS1A, benzene was reported at a concentration of 1.5 micrograms per liter (µg/L) which exceeds the GCTL of 1.0 µg/L. The compounds 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene also exceeded their respective GCTLs at concentrations of 12 µg/L (GCTL 10 µg/L) and 48 µg/L (GCTL 10 µg/L), respectively. Also, in monitoring well CEF-CS1A, toluene was reported at a concentration of 0.73 µg/L which is below the GCTL. Total xylenes were reported at a concentration of 10 µg/L which is below the GCTL (20 µg/L). The PAH compounds 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected at concentrations of 31 µg/L (GCTL 28 µg/L), 32 µg/L (GCTL 28 µg/L), and 20 µg/L (GCTL 14 µg/L), respectively, which exceed their respective GCTLs.

The only other well samples that exceeded a GCTL came from CEF-CS8. Due to the recent change in GCTLs (Chapter 62-777, FAC. was amended on April 17, 2005), the concentrations for benzo(a)anthracene and benzo(b)fluoranthene exceeded the new GCTLs, but not the former GCTLs. The following table outlines the situation:

COMPOUND	CONCENTRATION (µg/L)	OLD GCTL (µg/L)	NEW GCTL (µg/L)
Benzo(a)anthracene	0.11	0.2	0.05
Benzo(b)fluoranthene	0.11	0.2	0.05

The concentrations of the other COCs in the perimeter monitoring wells were below standard laboratory detection limits. The laboratory analytical results are summarized in Table 2 and depicted on Figure 3. Historical detections in groundwater are provided in Table 3. Groundwater sampling logs are provided in Attachment D. Copies of the laboratory analytical report and chain-of-custody documentation are provided in Attachment E.

CONCLUSIONS AND RECOMMENDATIONS

Of the three newly installed perimeter wells, only CEF-CS8 shows any impact from petroleum hydrocarbons, specifically only PAHs. The VOC concentrations appear to be confined to the source well, CEF-CS1A. The original perimeter wells show no impact from the source area hydrocarbons. Based on the results of the groundwater sampling, TtNUS recommends a Natural Attenuation Monitoring Plan (NAMP) be implemented for the site. Chapter 62-770.690(7)(a), FAC, requires a minimum of two wells for the NAMP to monitor both the area(s) of maximum concentration of contaminants and the downgradient edge of the plume. TtNUS recommends the following wells for periodic sampling under the NAMP:

- One well (CEF-CS1A) to monitor the source area of the plume.
- Two wells (CEF-CS3 and CEF-CS10) to monitor the downgradient edge of the plume.
- One well (CEF-CS8) to monitor the upgradient edge of the plume. This well will also allow monitoring of the low contaminant concentrations detected during the last sampling event. It should be noted this well is upgradient of the source and just outside the known area of a soil source removal (see Figure 2).

The recommended COCs for the NAMP are benzene; 1,3,5-trimethylbenzene; 1,2,4-trimethylbenzene; naphthalene; 1-methylnaphthalene; and 2-methylnaphthalene. The recommended frequency will be semi-annually as in the previous monitoring plan.

In anticipation of natural attenuation in five years for the extent of the plume, the following recommended milestone objectives for annual evaluation of remediation progress is also provided in accordance with Chapter 62-770.690(7)(g), FAC:

CEF-CS1A	Benzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene
End of Year 1	3 µg/L	15 µg/L	50 µg/L	30 µg/L	33 µg/L	33 µg/L
End of Year 2	2 µg/L	14 µg/L	40 µg/L	25 µg/L	32 µg/L	32 µg/L
End of Year 3	1 µg/L	13 µg/L	30 µg/L	20 µg/L	31 µg/L	31 µg/L
End of Year 4	<1 µg/L	12 µg/L	20 µg/L	15 µg/L	30 µg/L	30 µg/L
End of Year 5	<1 µg/L	<10 µg/L	<10 µg/L	<14 µg/L	<28 µg/L	<28 µg/L

If you have any questions with regard to this submittal, please feel free to contact me please contact me by phone at (813) 806-0202 or via e-mail at calliganp@ttnus.com.

Sincerely,

Paul E. Calligan, P.G.
Task Order Manager

Mervin W. Dale, P.G.
Florida Professional Geologist
P.G. Number 001917

MERVIN W. DALE
LICENSE
NO. 1917
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

PEC/cg

Attachments (11)

pc: Gabe Magwood (NAVFAC EFD SOUTH) (CD only)
Rick Lint, Seminole Ranger District
Mark Perry, TtNUS (unbound and CD)
Debbie Humbert, TtNUS (cover letter only)
Project File

TABLES

Table 1
Groundwater Elevation and Monitoring Well Construction Data

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Total Well Depth (ft, bls)	Screened Interval (ft, bls)	TOC Elevation (ft, msl)*	May 4, 1998		August 26, 1998		November 23, 1998		February 22, 1999	
				Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)
CEF-CS1A	31	15.5 to 30.5	81.30	20.30	61.00	21.85	59.45	20.23	61.07	22.39	58.91
CEF-CS2	29.5	14.0 to 29.0	83.54	22.52	61.02	24.17	59.37	22.42	61.12	24.60	58.94
CEF-CS3	32	16.5 to 31.5	80.98	20.08	60.90	21.60	59.38	20.00	60.98	22.16	58.82
CEF-CS4	29.5	14.0 to 29.0	79.88	19.05	60.83	20.55	59.33	18.96	60.92	21.12	58.76
CEF-CS5	33	17.5 to 32.5	80.66	19.79	60.87	21.06	59.60	19.50	61.16	21.68	58.98
CEF-CS6	53.5	48.0 to 53.0	81.59	20.61	60.98	22.15	59.44	20.52	61.07	22.67	58.92
CEF-CS7	29.9	19.0 to 29.0	80.89	20.11	60.78	21.64	59.25	20.00	60.89	22.15	58.74

See notes at end of table.

Table 1 (Continued)
Groundwater Elevation and Monitoring Well Construction Data

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Total Well Depth (ft, bls)	Screened Interval (ft, bls)	TOC Elevation (ft, msl)*	February 22, 1999		October 4, 1999		March 7, 2000		September 27, 2000	
				Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)
CEF-CS1A	31	15.5 to 30.5	81.30	22.39	58.91	25.05	56.25	25.98	55.32	28.49	52.81
CEF-CS2	29.5	14.0 to 29.0	83.54	24.60	58.94	27.33	56.21	28.28	55.26	30.77	52.77
CEF-CS3	32	16.5 to 31.5	80.98	22.16	58.82	24.84	56.14	25.82	55.16	28.26	52.72
CEF-CS4	29.5	14.0 to 29.0	79.88	21.12	58.76	23.79	56.09	24.80	55.08	27.19	52.69
CEF-CS5	33	17.5 to 32.5	80.66	21.68	58.98	24.33	56.33	25.35	55.31	27.77	52.89
CEF-CS6	53.5	48.0 to 53.0	81.59	22.67	58.92	25.37	56.22	26.33	55.26	28.78	52.81
CEF-CS7	29.9	19.0 to 29.0	80.89	22.15	58.74	24.84	56.05	25.81	55.08	28.27	52.62

See notes at end of table.

Table 1 (Continued)
Groundwater Elevation and Monitoring Well Construction Data

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Total Well Depth (ft, bls)	Screened Interval (ft, bls)	TOC Elevation (ft, msl)*	March 7, 2001		October 4, 2002		April 21. 2003		January 19, 2005	
				Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft, msl)
CEF-CS1A	31	15.5 to 30.5	81.30	30.29	51.01	24.23	57.07	21.76	59.54	21.42	59.88
CEF-CS2	29.5	14.0 to 29.0	83.54	31.91	51.63	26.59	56.95	24.13	59.41	23.71	59.83
CEF-CS3	32	16.5 to 31.5	80.98	30.07	50.91	23.98	57.00	21.53	59.45	21.21	59.77
CEF-CS4	29.5	14.0 to 29.0	79.88	29.02	50.86	22.89	56.99	20.44	59.44	20.17	59.71
CEF-CS5	33	17.5 to 32.5	80.66	29.6	51.06	23.43	57.23	20.96	59.70	20.73	59.93
CEF-CS6	53.5	48.0 to 53.0	81.59	30.59	51.00	24.55	57.04	22.10	59.49	21.72	59.87
CEF-CS7	29.9	19.0 to 29.0	80.89	DRY	<50.99	23.97	56.92	21.52	59.37	21.19	59.70
CEF-CS8	32.4	17.4 to 32.4	81.75	N/A	N/A	N/A	N/A	N/A	N/A	21.85	59.90
CEF-CS9	32.9	17.9 to 32.9	82.31	N/A	N/A	N/A	N/A	N/A	N/A	22.45	59.86
CEF-CS10	32.7	17.7 to 32.7	82.09	N/A	N/A	N/A	N/A	N/A	N/A	22.76	59.33

Notes:
*Top of casing (TOC) elevations for monitoring wells 1A through 6 were surveyed by ARC Surveying, Inc. for the Remediation Closure Report (BEI, 1996). Following installation, monitoring well CEF-CS7 was surveyed by HLA personnel based on ARC Surveying, Inc.'s data.
bls = below land surface
msl = mean sea level
N/A = not applicable
< = less than

Table 2
Summary of Detections in Groundwater

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	Monitoring Well Location					Cleanup Criteria*		
	CEF-CS1A (source)	**CEF-CS2 (perimeter)**	**CEF-CS3 (perimeter)**	**CEF-CS4 (perimeter)**	**CEF-CS5 (perimeter)**	**GCTL[(1)]**	**Action Levels (source/ perimeter)**	**Milestone Objectives (end of year 5)**
VOCs (USEPA Method 8260B) (µg/L)								
Benzene	**1.5**	<0.5	<0.5	<0.5	<0.5	1	100/1	ND
Toluene	0.73	<0.5	<0.5	<0.5	<0.5	40	400/40	35
Ethylbenzene	22	<0.5	<0.5	<0.5	<0.5	30	300/30	25
Total Xylenes	10	<0.5	<0.5	<0.5	<0.5	20	NA	NA
1,3,5- Trimethlybenzene	**12**	<0.5	<0.5	<0.5	<0.5	10	NA	NA
1,2,4 - Trimethylbenzene	**48**	<0.5	<0.5	<0.5	<0.5	10	NA	NA
PAHs (USEPA Method 8270C SIM) (µg/L)								
Benzo (a) anthracene	<0.10	<0.10	<0.10	<0.10	<0.10	0.05	NA	NA
Benzo (b) fluoranthene	<0.10	<0.10	<0.10	<0.10	<0.10	0.05	NA	NA
Naphthalene	**20**	<0.10	<0.10	<0.10	<0.10	14	200/20	15
1-Methylnapthalene	**31**	<0.10	<0.10	<0.10	<0.10	28	NA	NA
2-Methylnapthalene	**32**	<0.10	<0.10	<0.10	<0.10	28	NA	NA

See notes at end of table.

Table 2
Summary of Detections in Groundwater

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant	Monitoring Well Location					Cleanup Criteria*		
	CEF-CS6 (perimeter)	**CEF-CS7 (perimeter)**	**CEF-CS8 (perimeter)**	**CEF-CS9 (perimeter)**	**CEF-CS10 (perimeter)**	**GCTL[(1)]**	**Action Levels (source/ perimeter)**	**Milestone Objectives (end of year 5)**
VOCs (USEPA Method 8260B) (µg/L)								
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	1	100/1	8
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	40	400/40	80
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	30	300/30	40
Total Xylenes	<0.5	<0.5	<0.5	<0.5	<0.5	20	NA	NA
1,2,4 - Trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	10	NA	NA
PAHs (USEPA Method 8270C SIM) (µg/L)								
Benzo (a) anthracene	<0.10	<0.10	**0.11**	<0.10	<0.10	0.05	NA	NA
Benzo (b) fluoranthene	<0.10	<0.10	**0.11**	<0.10	<0.10	0.05	NA	NA
Naphthalene	<0.10	<0.10	<0.10	<0.10	<0.10	14	200/20	60
1-Methylnapthalene	<0.10	<0.10	<0.10	<0.10	<0.10	28	NA	NA
2-Methylnapthalene	<0.10	<0.10	<0.10	<0.10	<0.10	28	NA	NA

Notes:
* Action levels and milestones based on the MONA Approval Order (Attachment A).
(1) GCTL Level as defined by Chapter 62-777, Table I, FAC (as amended 4/17/05).
Bold font indicates a GCTL was exceeded.
< = less than
J = estimated value
NA = no value presented in the current approval order from April 1998.

Table 3
Summary of Historical Detections in Groundwater

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Compounds Detected	Monitoring Well Identification														Cleanup Criteria[1]					
	CEF-CS1A (source)[2]												CEF-CS2		Action Levels (source/ perimeter)	Milestone Objectives				
	Aug 98	Nov 98	Feb 99	Oct 99	Mar 00	Mar 00[3]	Sep 00	Mar 01	Oct 02	Oct 02[3]	April 03	Jan 05[3]	Oct 99	Jan 05		End of year 1	End of year 2	End of year 3	End of year 4	End of year 5
VOCs[4] (µg/L)																				
Benzene	**16**	**14**	**13**	**16.9**	**16.6**	**16.6**	**42**	**39**	**1.0**	**1.2**	ND	**1.5**	ND	ND	100/1	12	10	8	4	ND
Ethylbenzene	**44**	**31**	**34**	**43.2**	**31.2**	**31.2**	**31**	**50**	28.0	**30.2**	10.6	22	ND	ND	300/30	70	50	40	30	25
Toluene	7.1	3.5	1.8	3.4	2.1	2.1	6	8.9	ND	0.61	0.56	0.73	ND	ND	400/40	110	100	80	50	35
Total Xylenes	**115**	**63**	**33**	**80.4**	**38.4**	**38.4**	**39**	**53**	16.2	16.3	9.2	10	ND	ND	NA	NA	NA	NA	NA	NA
1,3,5- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	ND	NA	NA	NA	NA	NA	NA
1,2,4- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**48**	NS	ND	NA	NA	NA	NA	NA	NA
PAHs[5] (µg/L)																				
Naphthalene	**52**	**75**	**39**	16	**29.5**[3]	16.8	**34**	**61**	**34.5**	**33.5**	13.4	**20**	ND	ND	200/20	110	90	60	30	15
1-Methylnaphthalene	**45**	**87**	**31**	**27**	**37.2**[3]	**20.3**	**20**	**32**	**62.4**	**62.2**	**30.7**	**31**	ND	ND	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	**75**	**59**	**42**	17	**33.1**[3]	19.6	18	**38**	**58.7**	**57.5**	**30.4**	**32**	ND	ND	NA	NA	NA	NA	NA	NA

Notes:
See notes at the end of the table.

Table 3 (Continued)
Summary of Historical Detections in Groundwater

Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Compounds Detected	Monitoring Well Identification													Cleanup Criteria[1]					
	CEF-CS3 (perimeter)										CEF-CS4	CEF-CS5	CEF-CS6	Action Levels (source/ perimeter)	Milestone Objectives				
	Aug 98	Nov 98	Feb 99	Oct 99	Mar 00	Aug 00	Mar 01	Oct 02	April 03	April 03[3]	Jan 05	Jan 05	Jan 05		End of year 1	End of year 2	End of year 3	End of year 4	End of year 5
VOCs[4] (µg/L)																			
Benzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	100/1	12	10	8	4	ND
Ethylbenzene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	300/30	70	50	40	30	25
Toluene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	400/40	110	100	80	50	35
Total Xylenes	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
1,3,5- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NA	NA	NA	NA	NA	NA
1,2,4- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	NA	NA	NA	NA	NA	NA
PAHs[5] (µg/L)																			
Naphthalene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	200/20	110	90	60	30	15
1-Methylnaphthalene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

Notes:
See notes at the end of the table.

Table 3 (Continued)
Summary of Historical Detections in Groundwater

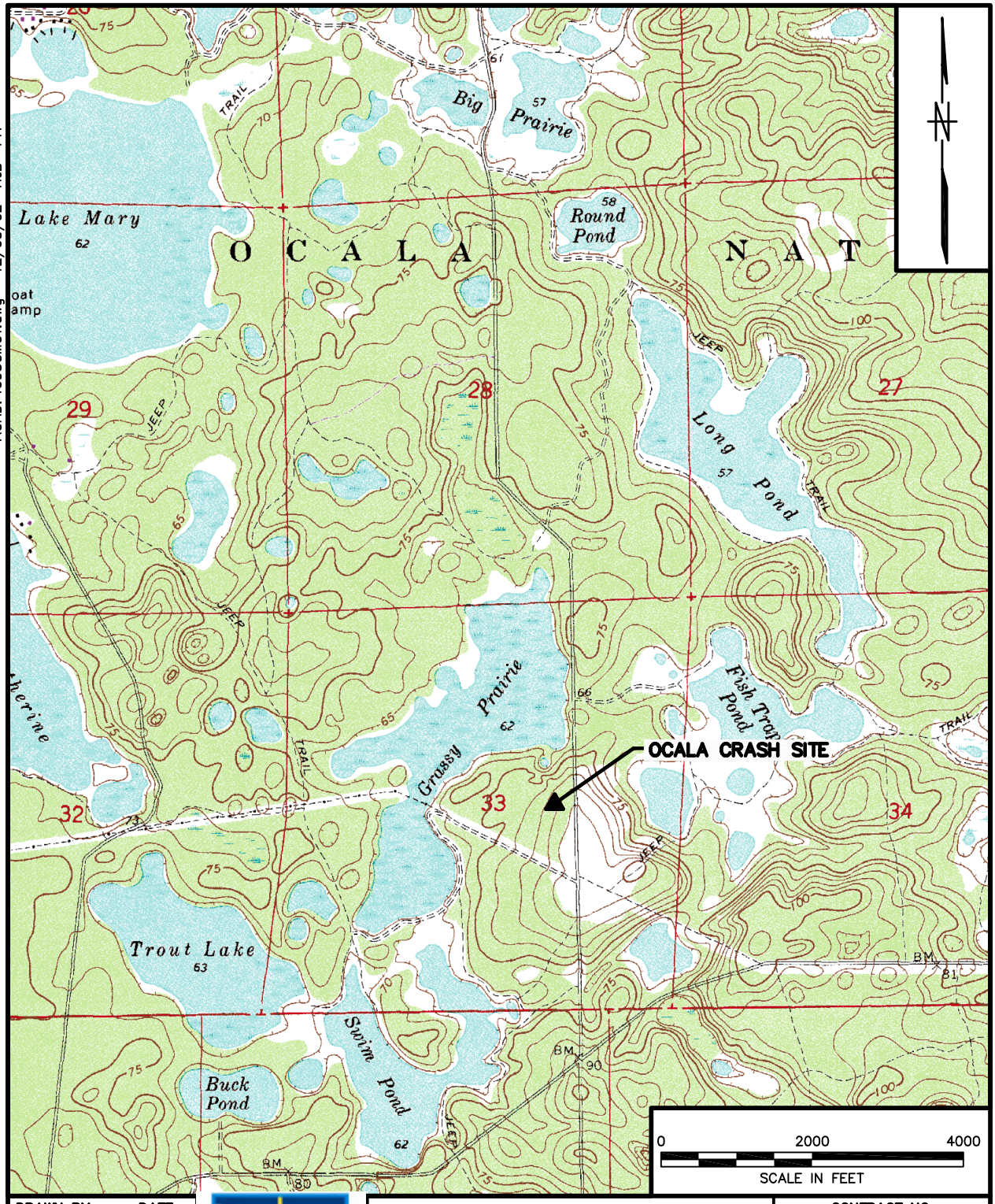
Supplemental Site Assessment Letter Report
Ocala F-18 Crash Site
Naval Air Station Cecil Field
Jacksonville, Florida

Compounds Detected	CEF-CS7 (perimeter)[2]										CEF-CS8	CEF-CS9	CEF-CS10	Cleanup Criteria[1]					
														Action Levels (source/ perimeter)	Milestone Objectives				
	Aug 98	Nov 98	Feb 99	Oct 99	Mar 00	Sep 00	Mar 01	Oct 02	April 03	Jan 05	Jan 05	Jan 05	Jan 05		End of year 1	End of year 2	End of year 3	End of year 4	End of year 5
VOCs[4] (µg/L)																			
Benzene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	100/1	12	10	8	4	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	300/30	70	50	40	30	25
Toluene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	400/40	110	100	80	50	35
Total Xylenes	1.2	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
1,3,5- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
1,2,4- Trimethylbenzene	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
PAHs[5] (µg/L)																			
Naphthalene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	200/20	110	90	60	30	15
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NS	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

Notes:
[1]Based on the MONA approval order of April 1998.
[2]Data from May 1998 sampling has been deleted for format reasons. It can be found in previous monitoring reports.
[3]Duplicate sample collected at this well.
[4]USEPA Method 8021B or 8260B provide data at detection limits necessary to meet MONA approval order original requirement to use USEPA Method 602.
[5]May 1998 to February 1999 - USEPA Method 625; October 1999 to March 2000, USEPA Method 8310; September 2000, USEPA Method 8270C. Currently using USEPA Method 8270C SIM for lower detection limits.
Bold font indicates that a GCTL was exceeded.
ND = none detected
NA = no value presented in the current approval order (Attachment A).
NS = not sampled

FIGURES

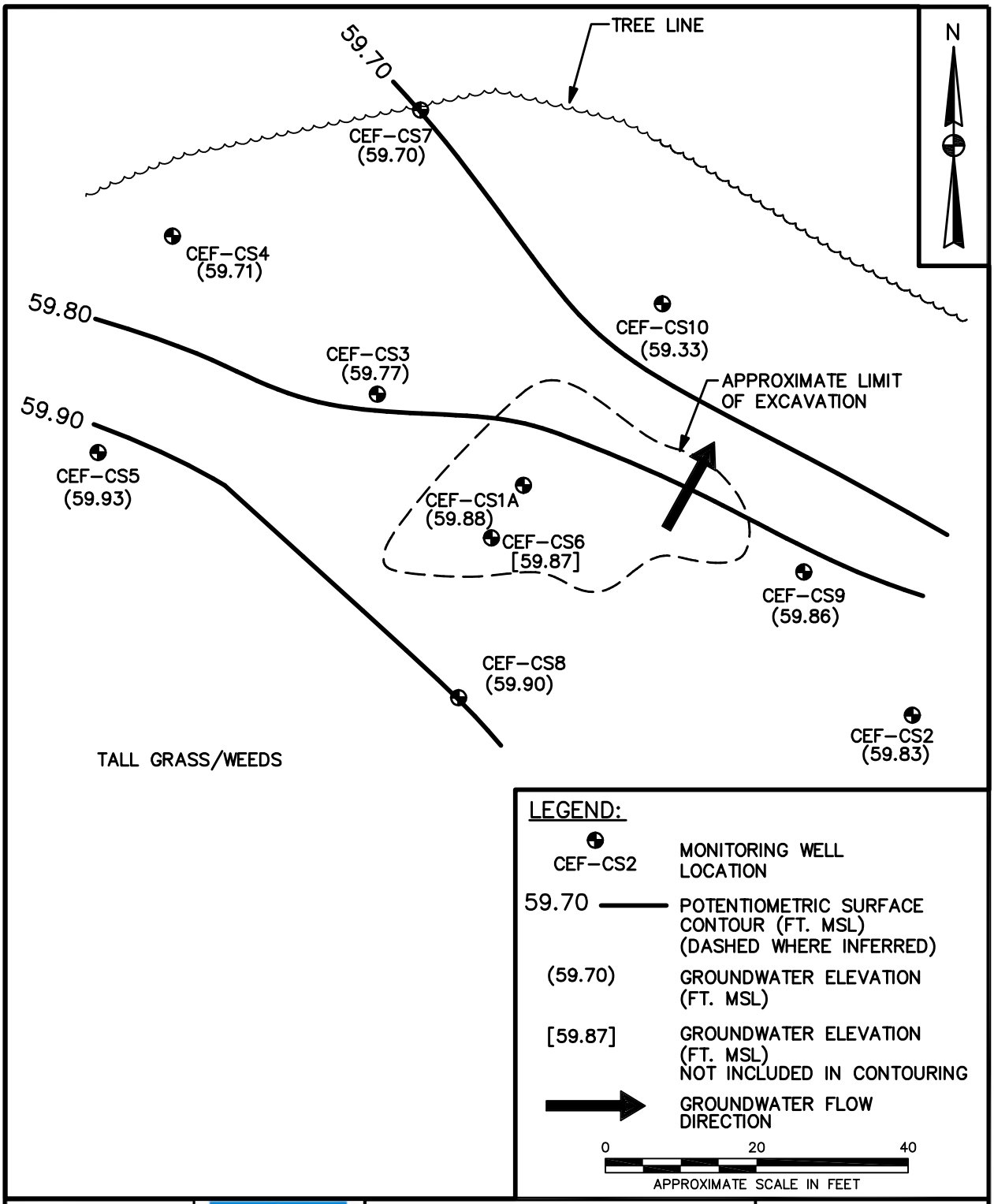
ACAD: 4093CM01.dwg 12/03/02 HJB PIT



DRAWN BY HJB	DATE 12/2/02	SITE LOCATION MAP OCALA F-18 CRASH SITE OCALA NATIONAL FOREST NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NO. 4093
CHECKED BY	DATE		APPROVED BY / DATE
COST/SCHED-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV. 0

FORM CADD NO. SDIV_AV.DWG - REV 0 - 1/20/98

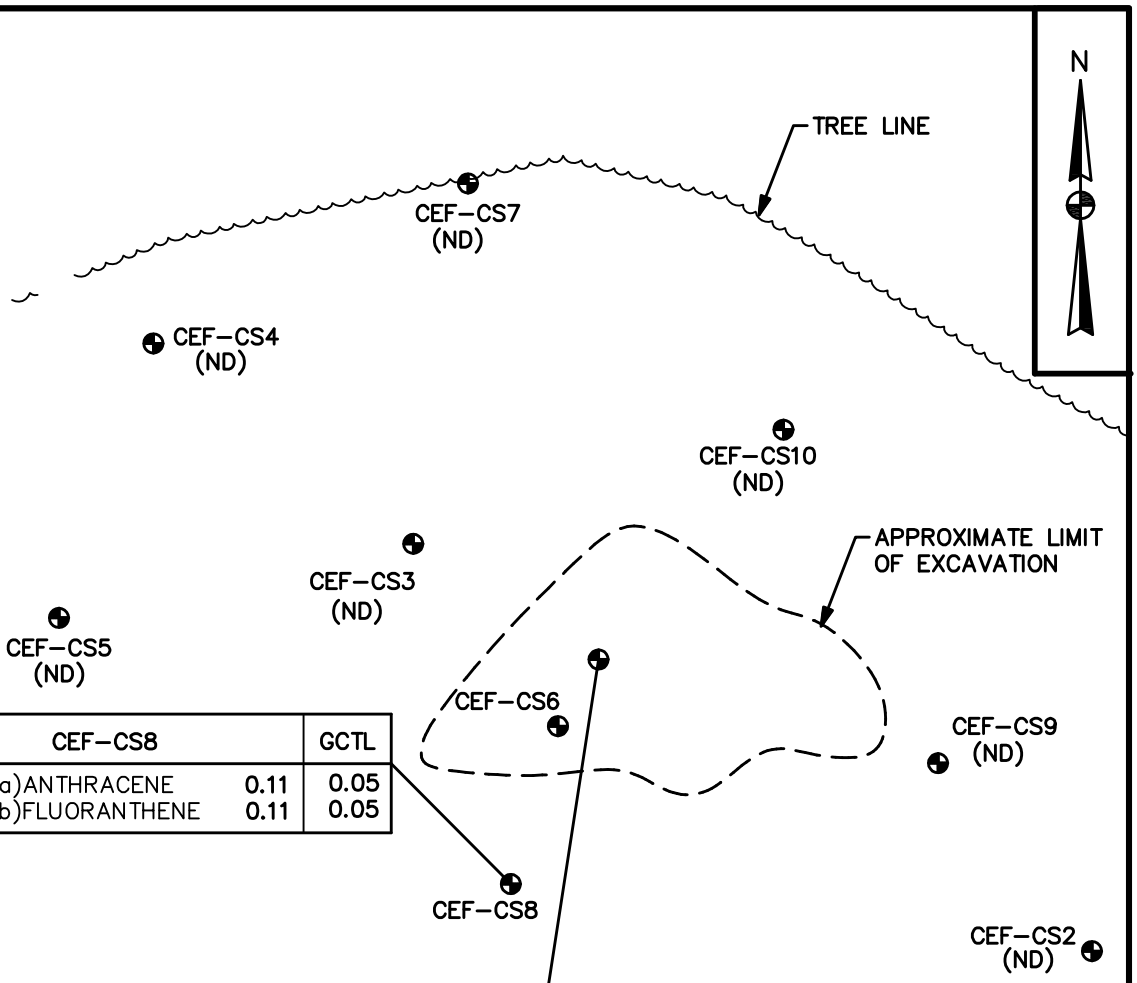
ACAD: 4093GT06.dwg 05/19/05 DM PIT



DRAWN BY DM	DATE 5/19/05	POTENTIOMETRIC SURFACE MAP JANUARY 19, 2005 OCALA F-18 CRASH SITE OCALA NATIONAL FOREST NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NO. 4093
CHECKED BY	DATE		OWNER NO.
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV. 0

FORM CADD NO. SDIV-AV.DWG - REV 1 - 9/10/98

ACAD: 4093GT05.DWG 05/23/05 DM PIT



CEF-CS8		GCTL
BENZO(a)ANTHRACENE	0.11	0.05
BENZO(b)FLUORANTHENE	0.11	0.05

TALL GRASS/WEEDS

CEF-CS1A		GCTL
BENZENE	1.5	1
TOLUENE	0.7	40
ETHYLBENZENE	22	30
TOTAL XYLENES	10	20
NAPHTHALENE	20	14
1-METHYLNAPHTHALENE	31	28
2-METHYLNAPHTHALENE	32	28
1,3,5-TRIMETHYLBENZENE	12	10
1,2,4-TRIMETHYLBENZENE	48	10

LEGEND:

CEF-CS2	MONITORING WELL LOCATION AND DESIGNATION
µg/L	MICROGRAMS PER LITER
ND	COMPOUND NOT DETECTED
GCTL	GROUNDWATER CLEANUP TARGET LEVEL

NOTE:

1. CONCENTRATIONS SHOWN ARE MEASURED IN µg/L.
2. EXCEEDANCES ARE SHOWN BOLD.

0 20 40
GRAPHIC SCALE IN FEET

DRAWN BY DM	DATE 5/19/05	GROUNDWATER ANALYTICAL RESULTS JANUARY 19, 2005 OCALA F-18 CRASH SITE OCALA NATIONAL FOREST NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NO. 4093
CHECKED BY	DATE		OWNER NO.
REVISED BY	DATE		APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 3 / REV. 0

NAVFAC

FORM CADD NO. SDIV-AV.DWG - REV 1 - 9/10/98

ATTACHMENT A

MOP APPROVAL ORDER

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Commanding Officer
Mr. Bryan Kizer, Code 1842
SOUTHNAVFACENGCOM
Post Office Box 190010
North Charleston, SC 29419-0068

Subject: Monitoring Only Plan Approval Order
Ocala F-18 Crash Site

Dear Mr. Kizer:

The Bureau of Waste Cleanup has completed the review of the Site Assessment Report Addendum and Monitoring Only Proposal for Natural Attenuation dated January 1998 (received January 26, 1998), submitted for this site. Pursuant to Rule 62-770.690, Florida Administrative Code (F.A.C.), the Department approves the monitoring only proposal. Pursuant to Rule 62-770.690(7), F.A.C., you are required to complete the monitoring program outlined below. The first sampling event should be performed within 60 days of receipt of this Monitoring Only Plan Approval Order (Order). Water-level measurements should be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody, cumulative summary table of the analytical results, site map(s) illustrating the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), should be submitted to the Department within 60 days of sample collection.

Monitoring Wells	Parameters	Frequency
CEF-CS1A; CEF-CS3; and CEF-CS7	602 and 8310	Quarterly

If concentrations of chemicals of concern in any of the designated wells increase above the action levels listed below, the well or wells must be resampled no later than 30 days after the initial positive results are known. If the results of the resampling confirm the initial sampling results, then a proposal must be submitted, as described in Rule 62-770.690(7)(f),F.A.C.

Contaminated well:
MW-CEF-CS1A: 100 µg/l Benzene; 300 µg/l Ethylbenzene; 400 µg/l Toluene; and 200 µg/l Naphthalene.

Perimeter wells:
MW-CEF-CS3 and MW-CEF-CS7: 1 µg/l Benzene; 30 µg/l Ethylbenzene; 40 µg/l Toluene; 20 µg/l Naphthalene.

The approved Remedial Action by Natural Attenuation monitoring period is 5 years. "Milestone" objectives should be established if monitoring is projected to take greater than one year. The following are the "milestone" objectives that will be used for annual evaluation of remediation progress by natural attenuation. An explanation of the progress relative to these milestone objectives, and the need for corrective action (if applicable), should be provided in the annual evaluation:

Benzene	MW-CEF-CS1A
End of year 1	12
End of year 2	10
End of year 3	8
End of year 4	4
End of year 5	ND
Ethylbenzene	
End of year 1	70
End of year 2	50
End of year 3	40
End of year 4	30
End of year 5	25
Toluene	
End of year 1	110
End of year 2	100
End of year 3	80

End of year 4	50
End of year 5	35

Naphthalene

End of year 1	110
End of year 2	90
End of year 3	60
End of year 4	30
End of year 5	15

If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are achieved at the end of the monitoring period, a Site Rehabilitation Completion Report, summarizing the monitoring program and containing documentation supporting the opinion that the cleanup objectives have been achieved, should be submitted as required in Rule 62-770.690(8), F.A.C. If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are not achieved following one year of monitoring, then a report summarizing the monitoring program should be submitted, including a proposal as described in Rule 62-770.690(7)(g).

Persons affected by this Order have the following options:

If you choose to accept the above decision by the Department you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

If you disagree with the decision, you may do one of the following:

1. File a petition for administrative hearing with the Office of the General Counsel of the Department within 21 days after receipt of this Order;

OR

2. File a request for an extension of time to file a petition for hearing with the Office of the General Counsel of the Department within 21 days after receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing.

Please be advised that mediation of this decision, pursuant to Section 120.573, Florida Statutes (F.S.), is not available.

How to Request an Extension of Time to File a Petition for Hearing

A request for an extension of time to file a petition for hearing must be filed (received) in the Office of the General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, within 21 days after receipt of this Order. Pursuant to Rule 28-106.111(3), F.A.C., a request for extension of time shall contain a certificate that the moving party has consulted with all other parties, if any, concerning the extension and that the Department and any other parties agree to said extension. Petitioner, if different from Commanding Officer, Naval Air Station Cecil Field, shall mail a copy of the petition to from Commanding Officer, Naval Air Station Cecil Field at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be filed until the request is acted upon.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of the General Counsel of the Department at 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000, within 21 days after receipt of this Order. Petitioner, if different from from Commanding Officer, Naval Air Station Cecil Field, shall mail a copy of the petition to from Commanding Officer, Naval Air Station Cecil Field at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Rules 62-103.155 and 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

a) The name, address, and telephone number of each petitioner, the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the

FDEP facility number, and the name and address of the facility;

b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
d) A statement of the material facts disputed by the petitioner, if any;
e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
f) A statement of which rules or statutes petitioner contends requires reversal or modification of the Department's action or proposed action; and
g) A statement of the relief petitioner seeks, stating precisely what petitioner wants the Department to do regarding the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a Final Order pursuant to an administrative hearing or an Order Responding to Supplemental Information provided pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of this Order pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Department clerk in the Office of the General Counsel, 3900 Commonwealth Boulevard, MS 35, Tallahassee, Florida 32399-3000. Simultaneously with filing a Notice of Appeal with the Department, petitioner must file a copy of the Notice of Appeal with the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be received by the Department clerk within 30 days from the date this Order was signed by the Department clerk (see below).

Questions

Should you have any questions regarding the legal processes, please contact the Office of the General Counsel at (850) 488-9730. Any questions you may have on the technical aspects of this Order should be directed to Michael J. Deliz,

P.G. at (850) 921-9991. Contact with any of the above does not constitute a petition for administrative hearing.

Sincerely,

John M. Ruddell, Director
Division of Waste Management

JMR/mjd

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk
(or Deputy Clerk)

4/3/98
Date

c: Deborah Metrin, FDEP Central District
David Kruzicki, NAS Cecil Field

ATTACHMENT B

MONITORING WELL INSTALLATION FORMS

BORING LOG

Tetra Tech NUS, Inc.

PROJECT NAME: OCALA CRASH SITE, GW. SUPP. /NY.
PROJECT NUMBER: N4117
DRILLING COMPANY: PARTRIDGE WELL
DRILLING RIG: DRILMASTER 400

BORING NO.: 001
DATE: 01/17/05
GEOLOGIST: Merv DALE
DRILLER: GARY OAKES

~~DEPTH~~ Sample No. and Type or RQD FT. TOP	Depth (Ft.) or Run No. BOT.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: ~~Soil Density/ Consistency or Rock Hardness~~	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0	4	—	—		BROWN		FINE SAND	SM	SOME SILT			2.2	8.8
4	8	—	—				SAME	SM	DAMP			—	—
8	10	—	—		BROWN		~~COARSE~~ MEDIUM SAND MD	SM	SOME SILT			—	—
10	15	—	—		GRAY BROWN		Clayey ~~COARSE~~ MEDIUM SAND MD	SC	DAMP			4	8.8
15	17	—	—				SAME	SC	DAMP			—	—
17	23	—	—		GRAY BROWN		~~COARSE~~ MEDIUM SAND MD	SP	DAMP			—	—
23	30	—	—		LT. GRAY		CLAYEY, ~~GRAVELLY~~ MEDIUM SAND MD	~~GC~~ SC	* Moist			—	—
							EOB @ 30' bls.						
									* some coarse grains				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: ▽ @ 19' bls - Measured after well set.

Drilling Area Background (ppm): 0.5

Converted to Well: Yes X No ____ Well I.D. #: CEF-CS8

BORING LOG

Tetra Tech NUS, Inc.

PROJECT NAME: OCALA CRASH SITE, GW. SUPP. INV.
PROJECT NUMBER: N4117
DRILLING COMPANY: PARTRIDGE WELL
DRILLING RIG: DRILMASTER 400

BORING NO.: 002
DATE: 1/18/05
GEOLOGIST: MERVIN DALE
DRILLER: GARY OAKES

Depth Sample No. and Type or RQD FT. TOP	Depth (Ft.) or Run No. BOT.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: Soil Density/ Consistency or Rock Hardness	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0	4	—	—			BROWN	SILTY FINE SAND	SM	DAMP	—	—	1.0	1.1
4	10	—	—			LT. BRN	FINE TO MED. SAND	SP	DAMP	—	—	—	—
10	12	—	—				SAME	SP	DAMP	—	—	—	—
12	16	—	—			LT. GRAY BRN.	MED. to COARSE Sand	SP	DAMP	—	—	1.4	1.0
16	24	—	—			LT. GRY BRN	FINE SAND	SP	DAMP	—	—	—	—
24	30	—	—			LT. GRAY	MED. SAND	SP	MOIST	—	—	—	—
							EOB @ 30' b/s.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: ▽ @ 20.14' b/s - MEASURED after well set

Drilling Area Background (ppm): 0.9

Converted to Well: Yes X No _____ Well I.D. #: CEF-CS9

BORING LOG

Tetra Tech NUS, Inc.

PROJECT NAME: OCALA CRASH SITE, GW. SUPP. INV.
BORING NO.: 003
PROJECT NUMBER: N4117
DATE: 01/18/05
DRILLING COMPANY: PARTRIDGE WELL
GEOLOGIST: MERV DALE
DRILLING RIG: DRILMASTER 400
DRILLER: GARY OAKES

~~Sample No. and Type or RQD~~ DEPTH FT. TOP	Depth (Ft.) or Run No. BOT.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION: ~~Soil Density/ Consistency or Rock Hardness~~	Color	Material Classification	USCS *	Remarks	PID/FID Reading (ppm): Sample	Sampler BZ	Borehole**	Driller BZ**
0	13				BROWN		SILTY FINE SAND	SM	DRY	–	–	0.9	0.9
13	17				LT. GRY	BRN	FINE TO MED. SAND	SP	DRY	–	–	–	–
17	21				LT. GRY	BRN	MEDIUM SAND	SP	DAMP	–	–	0.9	0.9
21	30				LT. GRAY		MEDIUM SAND	SP	some coarse	–	–	–	–
									sand, moist	–	–	–	–
							EOB @ 30' bls.						

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks:

Drilling Area Background (ppm): 0.8

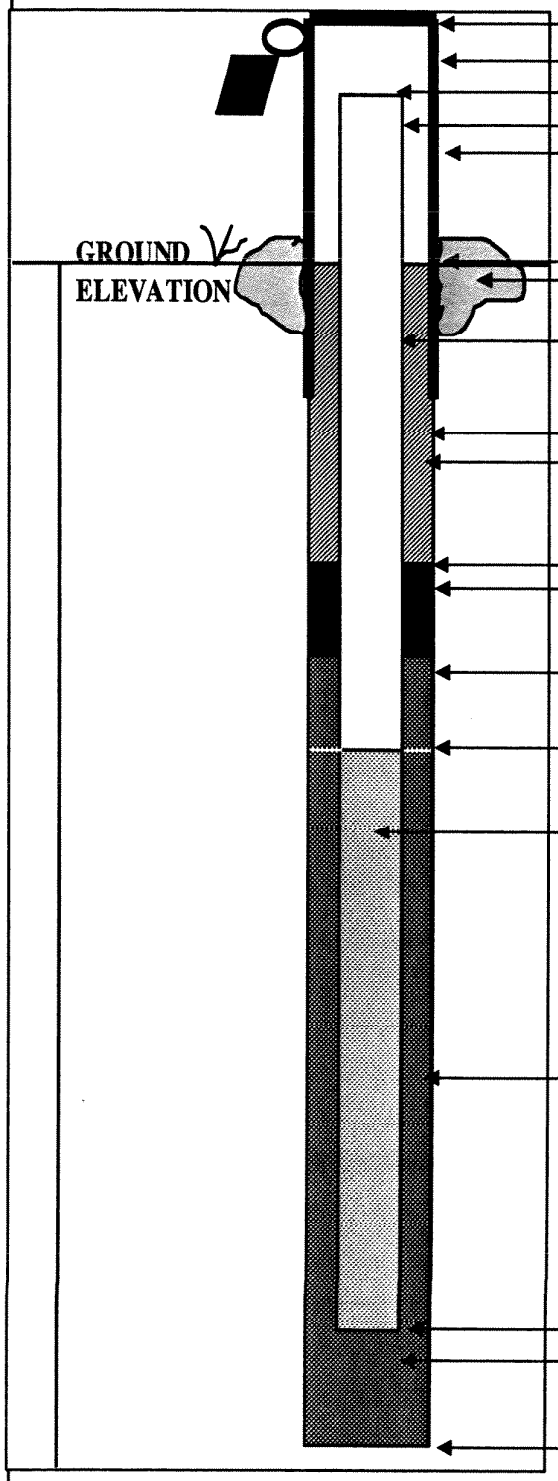
Converted to Well: Yes X No ____ Well I.D. #: CEF-CS10

BORING NO.: 001

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

CEF - CS8

PROJECT:	GW. SUPP. INV.	DRILLING Co.:	PARTRIDGE	BORING No.:	001
PROJECT No.:	N4117	DRILLER:	G. OAKES	DATE COMPLETED:	01/17/05
SITE:	OCALA CRASH SITE	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	MERL DALE	DEV. METHOD:	PUMP	EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING: 2.9'

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE: 2.5'

I.D. OF SURFACE CASING: 4 inch SQ.

TYPE OF SURFACE CASING: SQ. ALUMINUM HINGED TOP (4 INCH SQUARE)

GROUND ELEVATION:

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE 2' x 2' x 6" PAD

RISER PIPE I.D.: 2 INCH

TYPE OF RISER PIPE: SCH. 40 PVC

BOREHOLE DIAMETER: 8 INCH

TYPE OF SEAL: ~~FINE SAND~~ TYPE I/II ~~30/65 GRADE~~ Portland Cement

ELEVATION / DEPTH OF SEAL: 110'

TYPE OF SEAL: FINE SAND 30/65 GRADE

ELEVATION / DEPTH TOP OF FILTER PACK: 113'

ELEVATION / DEPTH TOP OF SCREEN: 114.5'

TYPE OF SCREEN: Sch. 40 PVC

SLOT SIZE X LENGTH: 0.010" x 15'

I.D. OF SCREEN: 2 inch

TYPE OF FILTER PACK: FILTER SAND 20/30 GRADE

ELEVATION / DEPTH BOTTOM OF SCREEN: 129.5'

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 130'

TYPE OF BACKFILL BELOW WELL: NATIVE SOIL

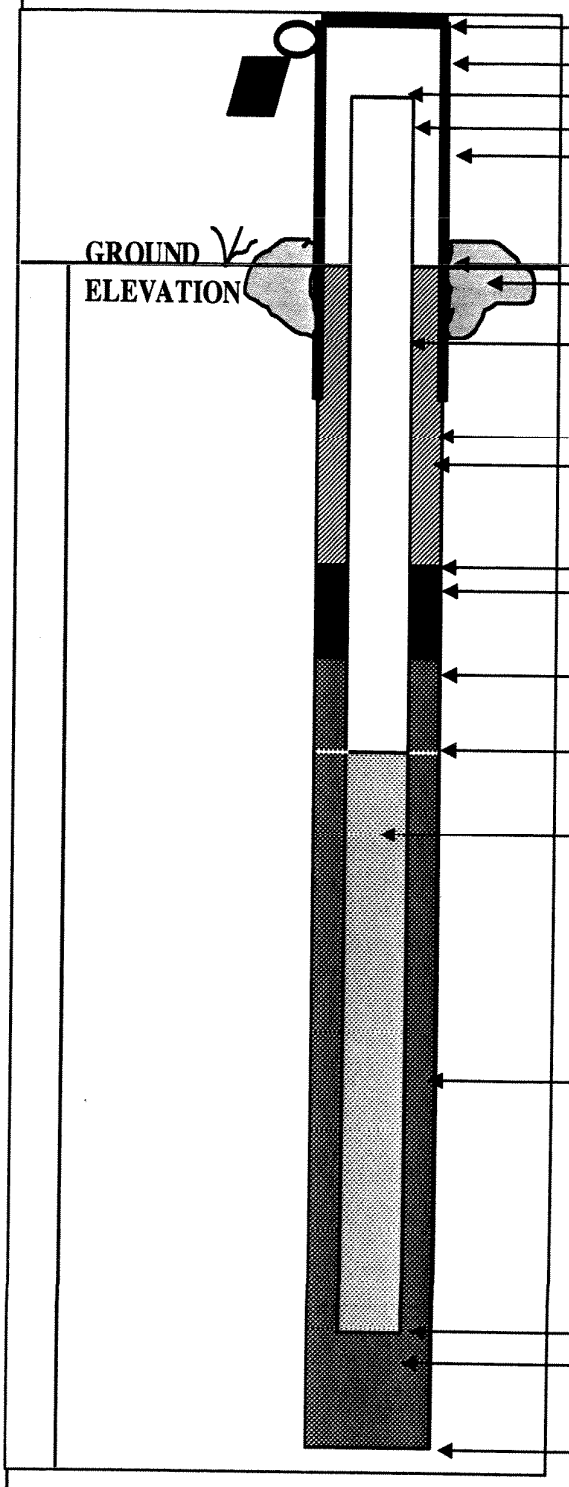
ELEVATION / DEPTH OF BOREHOLE: 130'

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

BORING NO.: 002

CEF-CS9

PROJECT:	GW. SUPP. INV.	DRILLING Co.:	PARTRIDGE	BORING No.:	002
PROJECT No.:	N4117	DRILLER:	G. OAKES	DATE COMPLETED:	1/18/05
SITE:	OCALA CRASH SITE	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	MERV DALE	DEV. METHOD:	PUMP	EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK -UP TOP OF SURFACE CASING: 2.9'

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE: 2.5'

I.D. OF SURFACE CASING: 4 INCH SQ.

TYPE OF SURFACE CASING: Aluminum w/ Hinge Top.

GROUND ELEVATION:

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE 2' x 2' x 6" PAD

RISER PIPE I.D.: 2 INCH

TYPE OF RISER PIPE: SCH. 40 PVC

BOREHOLE DIAMETER: 8 INCH

TYPE OF SEAL: Type I/II PORTLAND CEMENT

ELEVATION / DEPTH OF SEAL: 110'

TYPE OF SEAL: FINE SAND 30/65 GRADE

ELEVATION / DEPTH TOP OF FILTER PACK: 113'

ELEVATION / DEPTH TOP OF SCREEN: 114.5'

TYPE OF SCREEN: Sch. 40 PVC

SLOT SIZE X LENGTH: 0.010" x 15'

I.D. OF SCREEN: 2 INCH

TYPE OF FILTER PACK: FILTER SAND 20/30 ~~SAND~~ GRADE MD

ELEVATION / DEPTH BOTTOM OF SCREEN: 129.5'

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 130'

TYPE OF BACKFILL BELOW WELL: NATIVE SOIL

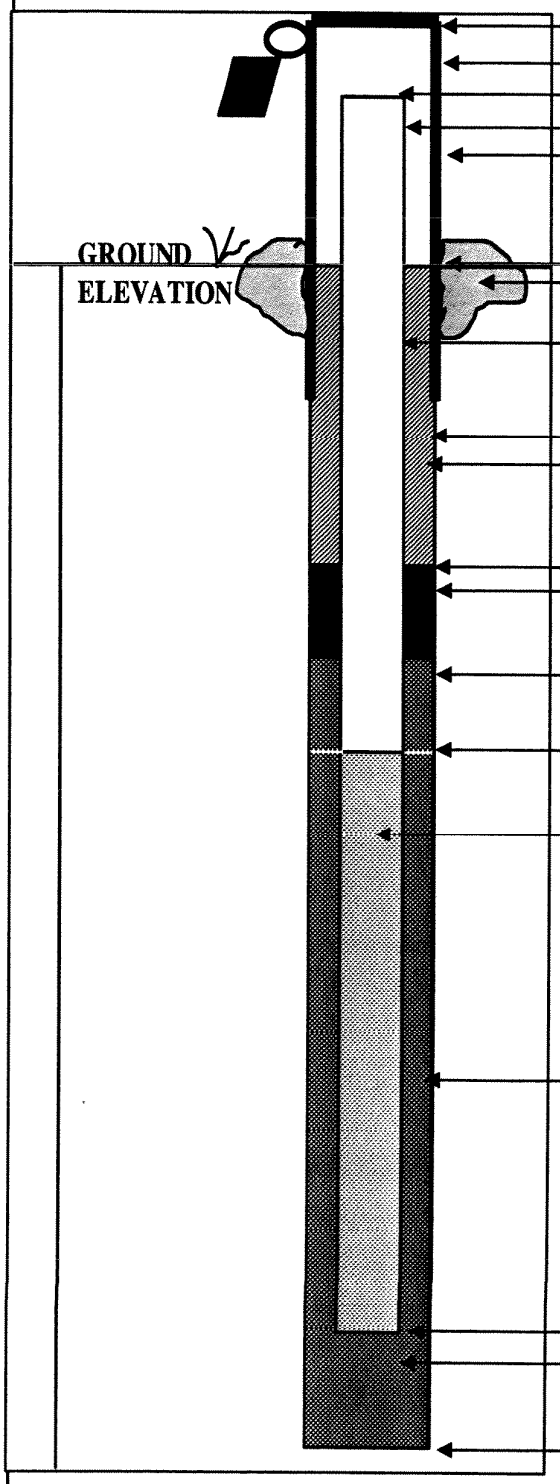
ELEVATION / DEPTH OF BOREHOLE: 130'

BORING NO.: 003

Tetra Tech NUS, Inc. **OVERBURDEN MONITORING WELL SHEET**

CEF-C510

PROJECT:	GW. SUPP. INV.	DRILLING Co.:	PARTRIDGE	BORING No.:	003
PROJECT No.:	N4117	DRILLER:	G. OAKES	DATE COMPLETED:	01/18/05
SITE:	OCALA CRASH SITE	DRILLING METHOD:	HSA	NORTHING:	
GEOLOGIST:	MERV DALE	DEV. METHOD:	PUMP	EASTING:	



ELEVATION OF TOP OF SURFACE CASING:

STICK-UP TOP OF SURFACE CASING: 2.9'

ELEVATION OF TOP OF RISER PIPE:

RISER STICK-UP ABOVE GROUND SURFACE: 2.5'

I.D. OF SURFACE CASING: 4 INCH SQ.

TYPE OF SURFACE CASING: Aluminum with Hinged Top

GROUND ELEVATION:

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE 2'X 2' x 6" PAD

RISER PIPE I.D.: 2 INCH

TYPE OF RISER PIPE: SCH. 40 PVC

BOREHOLE DIAMETER: 8 INCH

TYPE OF SEAL: Type I and II PORTLAND CEMENT

ELEVATION / DEPTH OF SEAL: 110'

TYPE OF SEAL: FINE SAND 30/65 GRADE

ELEVATION / DEPTH TOP OF FILTER PACK: 113'

ELEVATION / DEPTH TOP OF SCREEN: 114.5'

TYPE OF SCREEN: Sch. 40 PVC

SLOT SIZE X LENGTH: 0.010" x 15'

I.D. OF SCREEN: 2 INCH

TYPE OF FILTER PACK: FILTER SAND 20/30 GRADE

ELEVATION / DEPTH BOTTOM OF SCREEN: 129.5'

ELEVATION / DEPTH BOTTOM OF FILTER PACK: 130'

TYPE OF BACKFILL BELOW WELL: NATIVE SOIL

ELEVATION / DEPTH OF BOREHOLE: 130'

MONITORING WELL MATERIALS
CERTIFICATE OF CONFORMANCE

Well Designation: CEF- C58
Site Name: OCALA F-18 CRASH SITE
Date Installed: 01/17/05
Project Name: GROUNDWATER SUPPLEMENTAL INV.

Site Geologist: MERVIN W. DALE
Drilling Company: PARTRIDGE WELL CO.
Driller: GARY OAKES
Project Number: N4117, CTO 213

Material	Brand/Description	Source/Supplier	Sample Collected ?
Well Casing	Sch. 40 PVC, 2" I.D.	Atlantic Drilling Supply, JAX, FL.	NO
Well Screen	Sch. 40 PVC, 2" I.D., 0.010 IN. MACHINE SLOTS	SAME AS ABOVE.	NO
End Cap	Sch. 40 PVC, 2" I.D., 6 inch point	SAME AS ABOVE.	NO
Drilling Fluid	None	—	—
Drilling Fluid Additives	None	—	—
Backfill Material	None	—	—
Annular Filter Pack	FILTER SAND, 20/30 GRADE	STANDARD SAND, JAX, FL	NO
~~Bentonite~~ Seal, FINE	FINE SAND, 30/65 GRADE	STANDARD SAND, JAX, FL	NO
Annular Grout	TYPE I/II PORTLAND CEMENT	QUIKRETE CO., ATL., GA.	NO
Surface Cement	QUIKRETE CONCRETE NO. 1101	QUIKRETE CO., ATL., GA.	NO
Protective Casing	Aluminum, hinged, 4 IN. Sq., 5' long	Atlantic Drilling Supply, JAX, FL.	NO
Paint	—	—	—
Rod Lubricant	—	—	—
Compressor Oil	—	—	—

To the best of my knowledge, I certify that the above described materials were used during installation of this monitoring well.

Signature of Site Geologist: Mervin W. Dale

MONITORING WELL MATERIALS
CERTIFICATE OF CONFORMANCE

Well Designation: CEF- CS9
Site Name: OCALA F-18 CRASH SITE
Date Installed: 01/18/05
Project Name: GROUNDWATER SUPPLEMENTAL INV.

Site Geologist: MERVIN W. DALE
Drilling Company: PARTRIDGE WELL CO.
Driller: GARY OAKES
Project Number: N4117, CTO 213

Material	Brand/Description	Source/Supplier	Sample Collected ?
Well Casing	Sch.40 PVC, 2" I.D.	Atlantic Drilling Supply, JAX, FL.	NO
Well Screen	Sch.40 PVC, 2" I.D., 0.010 IN. MACHINE SLOTS	SAME AS ABOVE.	NO
End Cap	Sch.40 PVC, 2" I.D., 6 inch point	SAME AS ABOVE.	NO
Drilling Fluid	None	—	—
Drilling Fluid Additives	None	—	—
Backfill Material	None	—	—
Annular Filter Pack	FILTER SAND, 20/30 GRADE	STANDARD SAND, JAX, FL	NO
~~Bentonite~~ Seal, FINE	FINE SAND, 30/65 GRADE	STANDARD SAND, JAX, FL	NO
Annular Grout	TYPE I/II PORTLAND CEMENT	QUIKRETE CO., ATL., GA.	NO
Surface Cement	QUIKRETE CONCRETE NO. 1101	QUIKRETE CO., ATL., GA.	NO
Protective Casing	Aluminum, hinged, 4 IN. Sq., 5' long	Atlantic Drilling Supply, JAX, FL.	NO
Paint	—	—	—
Rod Lubricant	—	—	—
Compressor Oil	—	—	—

To the best of my knowledge, I certify that the above described materials were used during installation of this monitoring well.

Signature of Site Geologist: Mervin W. Dale

MONITORING WELL MATERIALS
CERTIFICATE OF CONFORMANCE

Well Designation: CEF- CS10
Site Name: OCALA F-18 CRASH SITE
Date Installed: 01/18/05
Project Name: GROUNDWATER SUPPLEMENTAL INV.

Site Geologist: MERVIN W. DALE
Drilling Company: PARTRIDGE WELL CO.
Driller: GARY OAKES
Project Number: N4117, CTO 213

Material	Brand/Description	Source/Supplier	Sample Collected ?
Well Casing	Sch.40 PVC, 2" I.D.	Atlantic Drilling Supply, JAX, FL.	NO
Well Screen	Sch.40 PVC, 2" I.D., 0.010 IN. MACHINE SLOTS	SAME AS ABOVE.	NO
End Cap	Sch.40 PVC, 2" I.D., 6 INCH point	SAME AS ABOVE.	NO
Drilling Fluid	None	—	—
Drilling Fluid Additives	None	—	—
Backfill Material	None	—	—
Annular Filter Pack	FILTER SAND, 20/30 GRADE	STANDARD SAND, JAX, FL	NO
~~Bentonite~~ Seal, FINE	FINE SAND, 30/65 GRADE	STANDARD SAND, JAX, FL	NO
Annular Grout	TYPE I/II PORTLAND CEMENT	QUIKRETE CO., ATL., GA.	NO
Surface Cement	QUIKRETE CONCRETE NO. 1101	QUIKRETE CO., ATL. GA.	NO
Protective Casing	Aluminum, hinged, 4 IN. Sq., 5' long	Atlantic Drilling Supply, JAX, FL.	NO
Paint	—	—	—
Rod Lubricant	—	—	—
Compressor Oil	—	—	—

To the best of my knowledge, I certify that the above described materials were used during installation of this monitoring well.

Signature of Site Geologist: Mervin W. Dale

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-C58
Site: NASCF, Ocala F-18 Crash
Date Installed: 1/17/05
Date Developed: 1/17-1/18/05
Dev. Method: Pump
Pump Type: Bladder

Depth to Bottom (ft.): 32.6' BTOC
Static Water Level Before (ft.): ~22' BTOC
Static Water Level After (ft.): 22.35' BTOC
Screen Length (ft.): 15
Specific Capacity: n/a
Casing ID (in.): 2

Responsible Personnel: M. Dale
Drilling Co.: Partridge Well Drilling
Project Name: GW. Supplemental Investigation
Project Number: N4117
CTO 213

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
*	0.5	50	–	–	–	–	–	
1550	0.0	50	–	–	–	–	–	
1555	–	70	–	21.79	5.16	0.094	8.4	clear
1558	–	73	–	22.36	4.93	0.093	8.2	clear
1601	–	90	–	22.49	4.83	0.094	9.9	clear
1605	–	110	–	22.44	4.84	0.094	9.7	clear
				well developed, stable, and quit 1608.				

* Pulled ~50 gals out w/o a water qual. meter on 1/17/05 until clear. 1st 10 gals were chalky white, then it cleared up.

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-CS9
Site: NASCF, Ocala F-18 Crash
Date Installed: 1/18/05
Date Developed: 1/18/05
Dev. Method: Pump
Pump Type: Bladder

Depth to Bottom (ft.): 32.8' BTOC
Static Water Level Before (ft.): 22.64' BTOC
Static Water Level After (ft.): 22.55' BTOC
Screen Length (ft.): 15
Specific Capacity: n/a
Casing ID (in.): 2

Responsible Personnel: M. Dale
Drilling Co.: Partridge Well Drilling
Project Name: GW. Supplemental Investigation
Project Number: N4117
CTO 213

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1435	0.5	0	—	—	—	—	—	start, chalky ~~tan~~ MD white
1441	—	~15	31'	22.28	5.85	0.076	>1000	chalky
1452	—	~36	31'	22.55	5.30	0.080	40	clearing
1459	—	~42	~31'	22.55	5.30	0.075	90	somewhat clear
1504	—	~50	—	22.50	5.26	0.072	10	clear
1511	—	~60	—	22.44	5.10	0.070	5.2	clear
1516	—	~70	—	22.46	5.07	0.069	4.8	clear
1521	—	~75	—	22.07	5.34	0.068	3.9	clear
1523	—	~77	—	22.39	5.04	0.068	—	clear
1526	—	~79	—	22.33	5.04	0.067	2.7	clear
1529	—	~81	—	22.30	4.96	0.068	—	clear
				well stable, quit @ 1530. MWA				

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-CS10
Site: NASCF, Ocala F-18 Crash
Date Installed: 01/18/05
Date Developed: 01/18/05
Dev. Method: Pump
Pump Type: Bladder

Depth to Bottom (ft.): 30.5'
Static Water Level Before (ft.): —
Static Water Level After (ft.): 20.25'
Screen Length (ft.): 15
Specific Capacity: n/a
Casing ID (in.): 2

Responsible Personnel: M. Dale
Drilling Co.: Partridge Well Drilling
Project Name: GW. Supplemental Investigation
Project Number: N4117
CTO 213

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1318	0.5	0	—	—	—	—	—	start, chalky
1322	—	10		26.91	6.71	0.225	>1000	chalky brn
1326	—	15		24.29	5.77	0.098	1000	clearing, still chalky.
1329		19		23.79	5.51	0.057	75	Almost clear
1337	—	35		23.93	5.07	0.077	>1000	chalky brn again.
1342	—	50		24.00	5.34	0.079	18	clear
1346	—	55		23.81	5.37	0.077	9.7	clear
1350	—	60		23.86	5.37	0.076	5.1	clear
1356	—	~75		23.61	5.11	0.075	7.3	clear
mo ~~1354~~ 1400	—	~88		23.68	5.08	0.074	—	clear
1402	—	~90		23.69	5.05	0.075	4.5	clear
				well stable — stop @ 1402.				

ATTACHMENT C

GROUNDWATER LEVEL AND SURVEY DATA

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: Baseline GW Event 1
Project No.: N4117LE0050175
Location: Ocala F-18 Crash Site, NASCF
Personnel: M. DALE, P. Levesque
Weather Conditions: 38°F, SUNNY
Measuring Device: Testwell # 00489
Tidally Influenced: Yes ____ No _x__
Remarks:

Well or Piezometer Number	Date 2005	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments and/or PID (ppm) BH/BZ
CEF-CS1A	01/19	0922	81.30	31	21.42			3.5/0.3
CEF-CS2		0920	83.54	29.5	23.71			0.6/0.3
CEF-CS3		0926	80.98	32	21.21			1.1/0.3
CEF-CS4		0924	79.88	29.5	20.17			1.3/0.3
CEF-CS5		0925	80.66	33	20.73			2.1/0.3
CEF-CS6		0921	81.59	53.5	21.72			0.4/0.3 ~~0.3/0.4~~ MD
CEF-CS7		0923	80.89	29.9	21.19			1.2/0.3
CEF-CS8		0932		32.47	21.85			0.4/0.3
CEF-CS9		0930		32.90	22.45			0.5/0.3
CEF-CS10		0927		32.75	22.26			2.3/0.3

* All measurements to the nearest 0.01 foot
NM = not measured.

BKgrnd = 0.3 ppm

BH=borehole of well

BZ=breathing zone of worker

Survey Elevation Calculations
Ocala F-18 Crash Site
Supplemental Site Assessment Letter Report
NAS Cecil Field
Jacksonville, Florida

Height of Instrument	+	-	Elevation	Description
			80.89	Assigned elevation to top-of-casing for monitoring well CEF-CS7
83.94	2.94			Height of Benchmark in current survey setup
83.94		2.64	81.30	CEF-CS1A
83.94		2.19	81.75	CEF-CS8
83.94		1.63	82.31	CEF-CS9
83.94		1.85	82.09	CEF-CS10

ATTACHMENT D

GROUNDWATER SAMPLING LOGS

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS1A-01
Sample Location: CEF-CS1A
Sampled By: MO/PL
C.O.C. No.: 105-1
Type of Sample:
[ ] Low Concentration
[X] High Concentration

SAMPLING DATA

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Date: 1/19/05 Time: 1115	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	
Method: Disp. Teflon Bailer	white	5.62	0.377	23.37	70	2.03	-47.6	

PURGE DATA

Date: 1/19/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer	See Low Flow Purge Sheet for data.							
Monitor Reading (ppm): 3.5								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 31								
Static Water Level (WL): 21.42								
One Casing Volume (gal/L): 1.7								
Start Purge (hrs): 1051								
End Purge (hrs): 1113								
Total Purge Time (min): 22								
Total Vol. Purged (gal/L): 8.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	3 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	2 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.: CEF-CSDup-01

Signature(s): Melvin W. Dale

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 1A-01
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. (liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1051	21.42	—	0	—	—	—	—	—	—	start
1053	21.80	—	1	6.16	0.384	110	3.47	23.34	-46.8	slight sldy. /odor *
1056	21.84	—	2	5.88	0.404	55	2.87	23.36	-51.2	
1058	21.92	—	3	5.75	0.403	60	2.25	23.38	-55.7	
1100	21.96	—	4	5.67	0.397	70	2.32	23.33	-45.7	
1103	21.96	—	5	5.64	0.389	65	2.06	23.31	-57.3	
1106	21.95	—	6	5.57	0.384	70	2.17	23.40	-47.3	
1108	22.00	—	7	5.62	0.384	75	2.06	23.44	-44.5	
1111	22.00	—	8	5.59	0.379	75	2.14	23.35	-41.8	
1113	22.00	—	8.5	5.62	0.377	70	2.03	23.37	-47.6	
					Sample @ 1115					

SIGNATURE(S): Melvin W. Dale

* Bkgrnd 0.3ppm
Br2 = 0.6ppm

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS2-01
Sample Location: CEF-CS2
Sampled By: MD/PL
C.O.C. No.: 05-1
Type of Sample:
[X] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Date: 1/19/05	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	
Time: 0955								
Method: Disp. Teflon Bailer	white	3.40	0.049	22.89	> 1000	5.03	511.1	

PURGE DATA

Date: 1/19/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer								
Monitor Reading (ppm): 0.6								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 29.5	See Low Flow Purge Sheet for data.							
Static Water Level (WL): 23.71								
One Casing Volume (gal/L): 1								
Start Purge (hrs): 0937								
End Purge (hrs): 0951								
Total Purge Time (min): 14								
Total Vol. Purged (gal/L): 5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	3 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	2 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:
MS/MSD ~~Duplicate~~ ID No.: CEF-CS2-01

Signature(s): Marvin W. Dale

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 2
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. GALS ~~(liters)~~	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0937	23.71	—		—	—	—	—	—	—	start
0938	23.93		0.5	3.05	0.052	170	5.57	22.58	460.6	
0939	23.97	—	1.0	3.52	0.053	750	5.09	22.76	461.5	white
0941	24.02	—	1.5	3.20	0.050	>1000	5.44	22.73	494.7	
0943	24.03	—	2.0	3.49	0.050	>1000	5.09	22.82	496.2	
0944	24.03	—	2.5	3.24	0.050	>1000	5.36	22.83	508.2	white
0946	24.06	—	3.0	3.32	0.049	>1000	5.27	22.85	513.2	
0947	24.08	—	3.5	3.41	0.049	>1000	5.06	22.87	509.6	
0949	24.10	—	4.0	3.21	0.049	>1000	5.21	22.86	514.8	
0950	24.04	—	4.5	3.25	0.049	>1000	4.99	22.89	518.9	
0951	24.09	—	5.0	3.40	0.049	>1000	5.03	22.89	511.1	
			end purge 0951							
			Sample 0955							

SIGNATURE(S): Melvin W. Dale

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Ocala F-18 Crash Site, NASCF	Sample ID No.:	CEF-CS3-01
Project No.:	N4117 CTO 213	Sample Location:	CEF-CS3
		Sampled By:	PL
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[x] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 1/18/05 Time: 1455	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	Lt. White	4.31	0.084	23.06	394	3.46	362.1	

PURGE DATA

Date: 1/18/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 32.0	See Low Flow Purge Sheet for data.							
Static Water Level (WL): 21.25								
One Casing Volume (gal/L): 1.8								
Start Purge (hrs): 1415								
End Purge (hrs): 1454								
Total Purge Time (min): 39								
Total Vol. Purged (gal/L): 9.0								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.: None	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS3
DATE: 1/18/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. ~~(liters)~~ (gal)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1415	21.25	—	—	—	—	—	—	—	—	
1420	21.65		1.0	4.54	0.084	561	3.92	23.15	341.0	
1424	21.78		2.0	4.61	0.083	512	4.54	23.06	350.0	
1428	21.73		3.0	4.45	0.082	675	3.36	23.12	359.0	
1432	21.74		4.0	4.42	0.083	681	4.51	23.10	361.2	
1436	21.74		5.0	4.42	0.083	702	3.85	23.06	359.7	
1440	21.72		6.0	4.40	0.083	496	3.92	23.11	365.4	
1445	21.71		7.0	4.36	0.083	438	3.53	23.07	363.1	
1449	21.70		8.0	4.39	0.084	417	3.16	23.10	359.3	
1454	21.68		9.0	4.31	0.084	394	3.46	23.06	362.1	

SAMPLE TIME 1455

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Ocala F-18 Crash Site, NASCF	Sample ID No.:	CEF-CS4-01
Project No.:	N4117 CTO 213	Sample Location:	CEF-CS4
		Sampled By:	PL
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[x] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 1/18/05 Time: 1120	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	BROWN	4.59	0.032	22.88	>1000	6.20	306.8	

PURGE DATA

Date: 1/18/5	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer	See Low Flow Purge Sheet for data.							
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 29.5								
Static Water Level (WL): 20.40								
One Casing Volume(gal/L): 1.5								
Start Purge (hrs): 1045								
End Purge (hrs): 1119								
Total Purge Time (min): 34								
Total Vol. Purged (gal/L): 7.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 ~~3~~ - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 ~~2~~ - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.: NONE	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 4
DATE: 1/18/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. ~~(liters)~~ GAL	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1045	20.40	-	—							
1050	20.86		0.75	4.86	0.033	>1000	4.83	22.84	289.4	
1055	20.89		1.5	4.87	0.032	>1000	5.31	22.81	296.4	
1100	20.87		3.0	4.71	0.033	>1000	5.32	22.88	300.5	
1105	20.89		4.0	4.70	0.032	>1000	5.47	22.87	298.9	
1108	20.92		5.0	4.66	0.032	>1000	5.52	22.88	299.3	
1114	20.90		6.0	4.60	0.032	>1000	5.68	22.88	307.5	
1117	20.91		7.0	4.60	0.032	>1000	5.91	22.88	308.9	
1119	20.89		7.5	4.59	0.032	>1000	6.20	22.88	306.8	
	SAMPLE TIME 1120									

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Ocala F-18 Crash Site, NASCF	Sample ID No.:	CEF-CS5-01
Project No.:	N4117 CTO 213	Sample Location:	CEF-CS5
		Sampled By:	PL
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[x] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 1/18/05 Time: 1030	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	WHITE	4.84	0.044	22.59	>1000	4.25	248.9	

PURGE DATA

Date: 1/18/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer	See Low Flow Purge Sheet for data.							
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 33.0								
Static Water Level (WL): 20.85								
One Casing Volume(gal/L): 7.5								
Start Purge (hrs): 0920								
End Purge (hrs): 1027								
Total Purge Time (min): 67								
Total Vol. Purged (gal/L): 10								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 ~~3~~ - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 ~~2~~ - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.: NONE	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 5
DATE: 1/18/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. (liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0920	20.85		—							
0930	21.15		1	5.84	0.048	411	6.85	21.88	181.7	
0940	21.41		2	5.48	0.045	403	5.17	22.66	220.4	
0945	21.53		3	5.69	0.044	394	5.60	22.71	233.4	
0951	22.61		4	4.95	0.045	≥1000	8.25	22.51	234.1	
0957	22.68		5	4.93	0.044	≥1000	7.12	22.73	242.1	
1005	21.75		6	4.84	0.044	≥1000	5.09	22.83	249.5	
1010	21.73		7	4.85	0.044	≥1000	5.31	22.75	249.3	
1015	21.75		8	4.85	0.044	≥1000	4.95	22.72	249.6	
1021	21.72		9	4.83	0.044	≥1000	4.81	22.68	249.4	
1027	21.74		10	4.84	0.044	≥1000	4.25	22.59	248.9	

SAMPLE TIME 1030

SIGNATURE(S): [illegible]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS6-01
Sample Location: CEF-CS6
Sampled By: MO/PL
C.O.C. No.: CS-1
Type of Sample:
[x] Low Concentration
[ ] High Concentration

SAMPLING DATA

	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Date: 1/19/05	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	
Time: 1042								
Method: Disp. Teflon Bailer	white	3.27	0.044	22.42	700	6.03	514.4	

PURGE DATA

Date:	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer								
Monitor Reading (ppm): 0.4								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 53.5	See Low Flow Purge Sheet for data.							
Static Water Level (WL): 21.72								
One Casing Volume (gal/L): 2.4								
Start Purge (hrs): 1015								
End Purge (hrs): 1039								
Total Purge Time (min): 24								
Total Vol. Purged (gal/L): 12								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	3 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	2 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.: NONE

Signature(s): Melvin W. Dale

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 6
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. (Gal) (liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1015	21.72	—	0	—	—	—	—	—	—	start
1016	22.01	—	1	3.67	0.042	280	5.74	23.02	472.4	clear
1018	22.01	—	2	3.84	0.042	7.3	5.08	22.89	479.8	clear
1020	22.03	—	3	3.47	0.042	1.9	5.57	22.75	481.6	clear
1022	22.01	—	4	3.66	0.043	110	5.54	22.61	498.2	cloudy
1024	21.91	—	5	3.24	0.045	900	6.64	22.38	506.0	cloudy
1027	22.02	—	6	3.37	0.045	>1000	6.01	22.43	506.3	cloudy
1028	21.96	—	7	3.23	0.045	>1000	6.46	22.40	510.8	cloudy white
1030	22.02	—	8	3.11	0.045	>1000	6.44	22.38	513.4	
1032	21.98	—	9	3.43	0.045	>1000	6.27	22.37	515.6	
1034	22.01	—	10	3.29	0.045	>1000	5.94	22.41	511.4	
1037	22.00	—	11	3.11	0.044	800	6.46	22.35	516.4	
1039	21.88	—	12	3.27	0.044	700	6.03	22.42	514.4	

SIGNATURE(S): M. W. Dale

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	Ocala F-18 Crash Site, NASCF	Sample ID No.:	CEF-CS7-01
Project No.:	N4117 CTO 213	Sample Location:	CEF-CS7
		Sampled By:	PL
[ ] Domestic Well Data		C.O.C. No.:	
[X] Monitoring Well Data		Type of Sample:	
[ ] Other Well Type:		[x] Low Concentration	
[ ] QA Sample Type:		[ ] High Concentration	

SAMPLING DATA

Date: 1/18/05 Time: 1350	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	WHITE	4.78	0.031	22.89	~~5~~/100	5.38	271.4	

PURGE DATA

Date: 1/18/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer	See Low Flow Purge Sheet for data.							
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 29.9								
Static Water Level (WL): 23.25								
One Casing Volume (gal/L): 1.1								
Start Purge (hrs): 1315								
End Purge (hrs): 1349								
Total Purge Time (min): 34								
Total Vol. Purged (gal/L): 5.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 ~~8~~ - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 ~~2~~ - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:		Signature(s):
MS/MSD	Duplicate ID No.: NONE	[signature]

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Ocala F-18 Crash Site
PROJECT NUMBER: N4117LE0050175 CTO 213

WELL ID.: CEF-CS 7
DATE: 1/18/04

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum.Vol. ~~(liters)~~	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1315	21.25	—	—	—	—	—	—	—	—	START PURGE
1320	21.64		1	4.99	0.032	>1000	7.11	23.00	286.0	
1325	21.68		1.5	4.99	0.033	330	5.12	22.96	290.9	
1328	21.70		2.0	4.86	0.032	373	4.87	22.91	290.6	
1331	21.71		2.5	4.87	0.032	577	5.02	22.84	290.7	
1334	21.70		3.0	4.80	0.032	609	5.38	22.86	290.5	
1337	21.69		3.5	4.77	0.032	874	6.02	22.88	289.7	
1340	21.69		4.0	4.74	0.032	>1000	5.67	22.88	287.2	
1343	21.68		4.5	4.82	0.032	>1000	5.58	22.89	282.8	
1346	21.69		5.0	4.81	0.031	>1000	5.45	22.89	278.7	
1349	21.70		5.5	4.78	0.031	>1000	5.38	22.89	271.4	

SAMPLE TIME 1350

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS8-01
Sample Location: CEF-CS8
Sampled By: MD/PL
C.O.C. No.: CS1
Type of Sample:
[x] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 1/19/05	Color	pH	S.C.	Temp.	Turbidity	DO	ORP	Other
Time: 1319	Visual	Standard	mS/cm	°C	NTU	mg/l	mV	
Method: Disp. Teflon Bailer	WHITE	3.22	0.116	22.79	>1000	3.63	437.1	

PURGE DATA

Date: 1/19/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 32.47	See Low Flow Purge Sheet for data.							
Static Water Level (WL): 21.85								
One Casing Volume (gal/L): 1.6								
Start Purge (hrs): 1259								
End Purge (hrs): 1318								
Total Purge Time (min): 19								
Total Vol. Purged (gal/L): 8.0								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	~~2~~ 3 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 ~~2~~ - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.: NONE

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

WELL ID.: CEF-CS8
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum. Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1259	21.85		0	—	—	—	—	—	—	START
1301	22.02		1	3.28	0.117	>1000	3.98	22.76	421.9	
1303	22.03		2	3.21	0.117	>1000	3.80	22.83	426.2	
1305	22.08		3	3.14	0.117	>1000	3.73	22.87	428.7	
1307	22.08		4	3.16	0.117	>1000	3.78	22.84	430.9	
1310	22.07		5	3.17	0.116	>1000	3.74	22.85	430.7	
1313	22.09		6	3.14	0.116	>1000	3.74	22.81	433.5	
1316	22.10		7	3.17	0.116	>1000	3.59	22.85	437.9	
1318	22.12		8	3.22	0.116	>1000	3.63	22.79	432.1	

SAMPLE TIME 1319

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS9-01
Sample Location: CEF-CS9
Sampled By: MD/PL
C.O.C. No.: CS1
Type of Sample:
[x] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 1/19/05 Time: 1348	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	White	3.48	0.086	22.97	>1000	2.98	393.8	

PURGE DATA

Date: 1/19/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer	See Low Flow Purge Sheet for data.							
Monitor Reading (ppm):								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 32.90								
Static Water Level (WL): 22.45								
One Casing Volume (gal/L): 1.8								
Start Purge (hrs): 1329								
End Purge (hrs): 1347								
Total Purge Time (min): 18								
Total Vol. Purged (gal/L): 9.0								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.: None

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

WELL ID.: CEF-G59
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum. Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1329	22.45		—	—	—	—	—	—	—	START
1331	23.15		1	3.70	0.087	>1000	3.86	22.88	388.6	
1332	23.40		2	3.52	0.093	>1000	3.84	22.93	381.4	
1334	23.39		3	3.64	0.091	>1000	3.96	22.96	379.8	
1336	23.20		4	3.50	0.090	>1000	2.96	22.97	381.4	
1338	23.09		5	3.48	0.088	>1000	2.85	22.98	387.2	
1341	23.22		6	3.47	0.088	>1000	2.85	22.99	389.1	
1343	23.18		7	3.38	0.088	>1000	3.11	22.99	388.1	
1345	23.36		8	3.47	0.087	>1000	2.95	23.03	394.1	
1347	23.25		9	3.48	0.086	>1000	2.98	22.97	393.8	

SAMPLE TIME 1348

SIGNATURE(S): [signature]

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project Site Name: Ocala F-18 Crash Site, NASCF
Project No.: N4117 CTO 213

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:
[ ] QA Sample Type:

Sample ID No.: CEF-CS10-01
Sample Location: CEF-CS10
Sampled By: MD/PL
C.O.C. No.:
Type of Sample:
[x] Low Concentration
[ ] High Concentration

SAMPLING DATA

Date: 1/19/05 Time: 1417	Color Visual	pH Standard	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/l	ORP mV	Other
Method: Disp. Teflon Bailer	WHITE	3.25	0.092	23.18	71000	3.05	360.8	

PURGE DATA

Date: 1/19/05	Time	pH	S.C.	Temp (°C)	Turbidity	DO		ORP
Method: Disp. Teflon Bailer								
Monitor Reading (ppm): 0								
Well Casing Diameter: 2 inch								
Well Casing Material: Sch. 40 PVC								
Total Well Depth (TD): 32.75	See Low Flow Purge Sheet for data.							
Static Water Level (WL): 22.26								
One Casing Volume (gal/L): 1.7								
Start Purge (hrs): 1357								
End Purge (hrs): 1416								
Total Purge Time (min): 19								
Total Vol. Purged (gal/L): 8.5								

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
Select VOCs	SW-846 8260B	4C/HCl	2 - 40 ml vials with teflon septum	✓
PAHs	SW-846 8310	4C	1 - 1 liter glass ambers	✓

OBSERVATIONS / NOTES

Circle if Applicable:

MS/MSD

Duplicate ID No.: None

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

WELL ID.: CEF-CS10
DATE: 1/19/05

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	Cum. Vol. (Liters)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1357	22.26	—	—	—	—	—	—	—	—	START
1359	22.77		1	3.40	0.100	>1000	3.62	23.25	370.4	
1402	22.70		2	3.48	0.100	>1000	3.50	23.29	362.8	
1404	22.81		3	3.41	0.098	>1000	3.21	23.27	356.3	
1406	22.81		4	3.33	0.095	>1000	3.10	23.30	357.3	
1408	22.71		5	3.33	0.094	>1000	3.22	23.27	366.2	
1411	22.76		6	3.28	0.093	>1000	3.07	23.22	361.4	
1412	22.73		7	3.28	0.092	>1000	3.06	23.26	362.6	
1415	22.72		8	3.26	0.092	>1000	3.07	23.22	360.4	
1416	22.69		8.5	3.25	0.092	>1000	3.05	23.18	360.8	

SAMPLE Time 1417

SIGNATURE(S):

ATTACHMENT E

GROUNDWATER ANALYTICAL REPORT

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

February 21, 2005

Tetra Tech NUS, Inc.
661 Anderson Drive
Pittsburgh, PA 15220
Attn: Ms. Amy Thomson

RE: Client Project: CTO-213, Cecil Field, FL
Lab Project #: D0058

Dear Ms. Thomson:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

* Data Summary Pack *

Analytical Data Package for Tetra Tech NUS, Inc.

Client Project: CTO-213, Cecil Field, FL

SDG# MD0058

Mitkem Work Order ID: D0058

February 21, 2005

Prepared For: Tetra Tech NUS, Inc.
661 Anderson Drive
Pittsburgh, PA 15220
Attn: Ms. Amy Thomson

Prepared By: Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Tetra Tech NUS Inc.'s CTO-213, Cecil Field, FL project. Under this deliverable, analysis results are presented for eleven aqueous samples that were received at Mitkem on January 20, 2005 and logged in under Mitkem Work Order Number D0058. Analyses were performed per specifications in the project's contract and the chain of custody forms. The Mitkem Work Order report is included with the chain of custody form to cross-reference laboratory and client sample ID.

The analyses were performed according to EPA SW-846 protocols and reported in a CLP-type format for Level 4 deliverable.

The modified CLP-type forms include the sample-specific reporting limit (PQL) and method detection limit (MDL). Please note that the MDL is a statistically derived value, and may not be achievable in field samples due to a number of factors. Data have also been qualified based on flagging requirements for Florida.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recovery of toluene-d8 in sample CEF-CS2-01MSD.

Lab control sample: spike recoveries were within the QC limits with the exception of elevated recovery for chloroethane in V6LLCS.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on sample CEF-CS2-01. Spike recoveries were within the QC limits with the exception of high recovery of 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene and sec-butylbenzene in the matrix spike duplicate. Replicate RPDs were within the QC limits.

Sample analysis: due to high concentration of target analytes, the following samples were re-analyzed at dilution: CEF-CS1A-01 (6x) and CEF-CSDUP-01 (6x). No other unusual observation was made for the analysis.

3. Semivolatile SIM Analysis:

Samples were analyzed for polynuclear aromatic hydrocarbons (PAH) using the selected ion monitoring (SIM) approach.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits with the exception of low recovery of hexachlorocyclopentadiene in S4CLCS.

Matrix spike/matrix spike duplicate: Duplicate matrix spikes were performed on sample CEF-CS2-01. Spike recoveries were within the QC with the exception of low recovery of indeno (1,2,3-cd) pyrene, dibenzo (a,h) anthracene, and benzo (g,h,i) perylene in both the matrix spike and matrix spike duplicate. Replicate RPDs were within the QC limits.

Sample analysis: due to high concentration of target analytes, the following samples were re-analyzed at dilution: CEF-CS1A-01 (10x) and CEF-CSDUP-01 (10x). No other unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
02/21/05

Mitkem Corporation

21/Jan/05 09:35

WorkOrder: D0058

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-01A	CEF-CS5-01	01/18/05 10:30	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-01B	CEF-CS5-01	01/18/05 10:30	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	HI
D0058-02A	CEF-CS4-01	01/18/05 11:20	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-02B	CEF-CS4-01	01/18/05 11:20	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	HI
D0058-03A	CEF-CS7-01	01/18/05 13:50	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-03B	CEF-CS7-01	01/18/05 13:50	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	HI
D0058-04A	CEF-CS3-01	01/18/05 14:55	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-04B	CEF-CS3-01	01/18/05 14:55	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	HI
D0058-05A	CEF-CS6-01	01/19/05 10:42	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-05B	CEF-CS6-01	01/19/05 10:42	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	HI

Client Rep: Edward A Lawler

0005

Mitkem Corporation — *21/Jan/05 09:35* — WorkOrder: D0058

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-06A	CEF-CS2-01	01/19/05 09:55	01/20/05	Aqueous	SW8260B_25_W		☐	☑	☐	VOA
D0058-06B	CEF-CS2-01	01/19/05 09:55	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☑	☑	H1
D0058-07A	CEF-CS1A-01	01/19/05 11:15	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-07B	CEF-CS1A-01	01/19/05 11:15	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	H1
D0058-08A	CEF-CS10-01	01/19/05 14:17	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-08B	CEF-CS10-01	01/19/05 14:17	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	H1
D0058-09A	CEF-CS8-01	01/19/05 13:19	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-09B	CEF-CS8-01	01/19/05 13:19	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	H1
D0058-10A	CEF-CS9-01	01/19/05 13:48	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA

Client Rep: Edward A Lawler

00006

Mitkem Corporation — *21/Jan/05 09:35* — WorkOrder: D0058

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-10B	CEF-CS9-01	01/19/05 13:48	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	H1
D0058-11A	CEF-CSDUP-01	01/19/05 00:00	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-11B	CEF-CSDUP-01	01/19/05 00:00	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	☑	H1

Client Rep: Edward A Lawler

0007

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-01A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5605.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 10:30

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 13:34

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	**Chloroform**	**0.49**	**I**	**0.19**	**0.50**
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-01A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5605.D

Level: (low/med) LOW | Date Collected: 01/18/05 | Time: 10:30

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 13:34

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5606.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 11:20

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:08

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5606.D

Level: (low/med) LOW | Date Collected: 01/18/05 | Time: 11:20

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 14:08

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5607.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:40

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5607.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:40

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-04A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5608.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 14:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:12

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-04A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5608.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 14:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:12

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-05A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5609.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 10:42

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:45

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	**Chloroform**	**1.2**		**0.19**	**0.50**
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: D0058-05A

Sample wt/vol: 25.0 (G/ML) ML Lab File ID: V1G5609.D

Level: (low/med) LOW Date Collected: 01/19/05 Time: 10:42

% Moisture: Decanted: (Y/N) N Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall Date Analyzed: 01/27/05 Time: 15:45

Prep Batch: 16639 Analytical Run: V1_050126B

Instrument ID: V1 TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
CEF-CS2-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-06A
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5610.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 9:55
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 25000 (µL)
Date Extracted: 01/27/05 Time: 10:14
Dil Fac: 1.00 Analyst: msztrall
Date Analyzed: 01/27/05 Time: 16:17
Prep Batch: 16639
Analytical Run: V1_050126B
Instrument ID: V1
TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5610.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 16:17

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMS

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5611.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 16:49

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	10		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	9.8		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	11		0.10	0.50
75-34-3	1,1-Dichloroethane	10		0.22	0.50
78-93-3	2-Butanone	11		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	10		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.1		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	10		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	11		0.19	0.50
79-01-6	Trichloroethene	10		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	11		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	10		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.2		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	11		0.10	0.50
142-28-9	1,3-Dichloropropane	10		0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMS

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5611.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 16:49

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	9.8		0.020	0.50
591-78-6	2-Hexanone	9.0		0.29	5.0
124-48-1	Dibromochloromethane	10		0.060	0.50
106-93-4	1,2-Dibromoethane	10		0.030	0.50
108-90-7	Chlorobenzene	10		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	10		0.18	0.50
1330-20-7	m,p-Xylene	22		0.35	0.50
95-47-6	o-Xylene	10		0.030	0.50
1330-20-7	Xylene (Total)	32		0.17	0.50
100-42-5	Styrene	10		0.060	0.50
75-25-2	Bromoform	11		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	11		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	10		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	11		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	10		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	10		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.2		0.38	0.50
87-68-3	Hexachlorobutadiene	8.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	8.7		0.50	0.50
91-20-3	Naphthalene	8.6		0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMSD

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5612.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 17:21

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	11		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	9.2		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	11		0.10	0.50
75-34-3	1,1-Dichloroethane	11		0.22	0.50
78-93-3	2-Butanone	12		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	11		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.3		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	12		0.19	0.50
79-01-6	Trichloroethene	11		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	11		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	11		0.020	0.50
108-10-1	4-Methyl-2-pentanone	10		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	11		0.10	0.50
142-28-9	1,3-Dichloropropane	11		0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMSD

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5612.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 17:21

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	10		0.020	0.50
591-78-6	2-Hexanone	9.3		0.29	5.0
124-48-1	Dibromochloromethane	11		0.060	0.50
106-93-4	1,2-Dibromoethane	11		0.030	0.50
108-90-7	Chlorobenzene	11		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	23		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	33		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	11		0.13	0.50
98-82-8	Isopropylbenzene	12		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	11		0.13	0.50
108-86-1	Bromobenzene	11		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	12		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	12		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	12		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	11		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	10		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.8		0.38	0.50
87-68-3	Hexachlorobutadiene	8.6		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.5		0.50	0.50
91-20-3	Naphthalene	9.7		0.42	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5613.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 17:53

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	**Benzene**	**1.5**		**0.19**	**0.50**
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	**Toluene**	**0.73**		**0.020**	**0.50**
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5613.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 17:53

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	**Ethylbenzene**	**22**		**0.18**	**0.50**
1330-20-7	**m,p-Xylene**	**9.3**		**0.35**	**0.50**
95-47-6	**o-Xylene**	**0.94**		**0.030**	**0.50**
1330-20-7	**Xylene (Total)**	**10**		**0.17**	**0.50**
100-42-5	**Styrene**	**0.50**		**0.060**	**0.50**
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	**Isopropylbenzene**	**11**		**0.16**	**0.50**
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	**n-Propylbenzene**	**19**		**0.050**	**0.50**
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	**1,3,5-Trimethylbenzene**	**12**		**0.030**	**0.50**
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	**1,2,4-Trimethylbenzene**	**48**	**L**	**0.040**	**0.50**
135-98-8	**sec-Butylbenzene**	**13**		**0.040**	**0.50**
99-87-6	**4-Isopropyltoluene**	**11**		**0.030**	**0.50**
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	**n-Butylbenzene**	**18**		**0.050**	**0.50**
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	**Naphthalene**	**50**	**L**	**0.42**	**0.50**

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5643.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 6.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 17:29

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	3.0	U	2.6	3.0
74-87-3	Chloromethane	3.0	U	1.7	3.0
75-01-4	Vinyl chloride	3.0	U	1.3	3.0
74-83-9	Bromomethane	3.0	U	1.3	3.0
75-00-3	Chloroethane	3.0	U	1.4	3.0
75-69-4	Trichlorofluoromethane	3.0	U	1.3	3.0
75-35-4	1,1-Dichloroethene	3.0	U	0.36	3.0
67-64-1	Acetone	30	U	3.4	30
75-15-0	Carbon disulfide	3.0	U	0.18	3.0
75-09-2	Methylene chloride	3.0	U	2.6	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	0.12	3.0
1634-04-4	Methyl tert-butyl ether	3.0	U	0.60	3.0
75-34-3	1,1-Dichloroethane	3.0	U	1.3	3.0
78-93-3	2-Butanone	30	U	2.2	30
156-59-2	cis-1,2-Dichloroethene	3.0	U	0.12	3.0
594-20-7	2,2-Dichloropropane	3.0	U	1.4	3.0
74-97-5	Bromochloromethane	3.0	U	0.96	3.0
67-66-3	Chloroform	3.0	U	1.1	3.0
71-55-6	1,1,1-Trichloroethane	3.0	U	0.12	3.0
563-58-6	1,1-Dichloropropene	3.0	U	0.18	3.0
56-23-5	Carbon tetrachloride	3.0	U	1.3	3.0
107-06-2	1,2-Dichloroethane	3.0	U	0.54	3.0
71-43-2	Benzene	3.0	U	1.1	3.0
79-01-6	Trichloroethene	3.0	U	1.0	3.0
78-87-5	1,2-Dichloropropane	3.0	U	0.12	3.0
74-95-3	Dibromomethane	3.0	U	0.48	3.0
75-27-4	Bromodichloromethane	3.0	U	0.12	3.0
10061-01-5	cis-1,3-Dichloropropene	3.0	U	0.12	3.0
108-10-1	4-Methyl-2-pentanone	30	U	1.3	30
108-88-3	Toluene	3.0	U	0.12	3.0
10061-02-6	trans-1,3-Dichloropropene	3.0	U	0.48	3.0
79-00-5	1,1,2-Trichloroethane	3.0	U	0.60	3.0
142-28-9	1,3-Dichloropropane	3.0	U	0.36	3.0

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5643.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 6.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 17:29

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	3.0	U	0.12	3.0
591-78-6	2-Hexanone	30	U	1.7	30
124-48-1	Dibromochloromethane	3.0	U	0.36	3.0
106-93-4	1,2-Dibromoethane	3.0	U	0.18	3.0
108-90-7	Chlorobenzene	3.0	U	0.18	3.0
630-20-6	1,1,1,2-Tetrachloroethane	3.0	U	0.24	3.0
100-41-4	**Ethylbenzene**	**15**	**D**	**1.1**	**3.0**
1330-20-7	**m,p-Xylene**	**6.0**	**D**	**2.1**	**3.0**
95-47-6	o-Xylene	3.0	U	0.18	3.0
1330-20-7	**Xylene (Total)**	**6.0**	**D**	**1.0**	**3.0**
100-42-5	Styrene	3.0	U	0.36	3.0
75-25-2	Bromoform	3.0	U	0.78	3.0
98-82-8	**Isopropylbenzene**	**8.1**	**D**	**0.96**	**3.0**
79-34-5	1,1,2,2-Tetrachloroethane	3.0	U	0.78	3.0
108-86-1	Bromobenzene	3.0	U	0.36	3.0
96-18-4	1,2,3-Trichloropropane	3.0	U	0.54	3.0
103-65-1	**n-Propylbenzene**	**13**	**D**	**0.30**	**3.0**
95-49-8	2-Chlorotoluene	3.0	U	0.36	3.0
108-67-8	**1,3,5-Trimethylbenzene**	**9.5**	**D**	**0.18**	**3.0**
106-43-4	4-Chlorotoluene	3.0	U	0.30	3.0
98-06-6	tert-Butylbenzene	3.0	U	0.42	3.0
95-63-6	**1,2,4-Trimethylbenzene**	**100**	**D**	**0.24**	**3.0**
135-98-8	**sec-Butylbenzene**	**9.2**	**D**	**0.24**	**3.0**
99-87-6	**4-Isopropyltoluene**	**7.1**	**D**	**0.18**	**3.0**
541-73-1	1,3-Dichlorobenzene	3.0	U	0.36	3.0
106-46-7	1,4-Dichlorobenzene	3.0	U	0.42	3.0
104-51-8	**n-Butylbenzene**	**11**	**D**	**0.30**	**3.0**
95-50-1	1,2-Dichlorobenzene	3.0	U	1.2	3.0
96-12-8	1,2-Dibromo-3-chloropropane	3.0	U	1.3	3.0
120-82-1	1,2,4-Trichlorobenzene	3.0	U	2.3	3.0
87-68-3	Hexachlorobutadiene	3.0	U	2.1	3.0
87-61-6	1,2,3-Trichlorobenzene	3.0	U	3.0	3.0
91-20-3	**Naphthalene**	**21**	**D**	**2.5**	**3.0**

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5642.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 14:17

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 16:57

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5642.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 14:17

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 16:57

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5615.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 13:19

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 18:57

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5615.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:19

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 18:57

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS9-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-10A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5616.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:48

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 19:29

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
CEF-CS9-01

Lab Name: Mitkem Corporation | Contract:
Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058
Matrix: (soil/water) WATER | Lab Sample ID: D0058-10A
Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5616.D
Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:48
% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00
Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14
Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 19:29
Prep Batch: 16639 | Analytical Run: V1_050126B
Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5617.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 20:01

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	**Benzene**	**1.7**		**0.19**	**0.50**
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	**Toluene**	**0.87**		**0.020**	**0.50**
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5617.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 20:01

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	**Ethylbenzene**	**24**		**0.18**	**0.50**
1330-20-7	**m,p-Xylene**	**9.9**		**0.35**	**0.50**
95-47-6	**o-Xylene**	**1.0**		**0.030**	**0.50**
1330-20-7	**Xylene (Total)**	**11**		**0.17**	**0.50**
100-42-5	**Styrene**	**0.49**	**I**	**0.060**	**0.50**
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	**Isopropylbenzene**	**12**		**0.16**	**0.50**
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	**n-Propylbenzene**	**20**		**0.050**	**0.50**
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	**1,3,5-Trimethylbenzene**	**13**		**0.030**	**0.50**
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	**1,2,4-Trimethylbenzene**	**51**	**L**	**0.040**	**0.50**
135-98-8	**sec-Butylbenzene**	**14**		**0.040**	**0.50**
99-87-6	**4-Isopropyltoluene**	**12**		**0.030**	**0.50**
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	**n-Butylbenzene**	**19**		**0.050**	**0.50**
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	**Naphthalene**	**49**	**L**	**0.42**	**0.50**

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5644.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 6.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 18:02

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	3.0	U	2.6	3.0
74-87-3	Chloromethane	3.0	U	1.7	3.0
75-01-4	Vinyl chloride	3.0	U	1.3	3.0
74-83-9	Bromomethane	3.0	U	1.3	3.0
75-00-3	Chloroethane	3.0	U	1.4	3.0
75-69-4	Trichlorofluoromethane	3.0	U	1.3	3.0
75-35-4	1,1-Dichloroethene	3.0	U	0.36	3.0
67-64-1	Acetone	30	U	3.4	30
75-15-0	Carbon disulfide	3.0	U	0.18	3.0
75-09-2	Methylene chloride	3.0	U	2.6	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	0.12	3.0
1634-04-4	Methyl tert-butyl ether	3.0	U	0.60	3.0
75-34-3	1,1-Dichloroethane	3.0	U	1.3	3.0
78-93-3	2-Butanone	30	U	2.2	30
156-59-2	cis-1,2-Dichloroethene	3.0	U	0.12	3.0
594-20-7	2,2-Dichloropropane	3.0	U	1.4	3.0
74-97-5	Bromochloromethane	3.0	U	0.96	3.0
67-66-3	Chloroform	3.0	U	1.1	3.0
71-55-6	1,1,1-Trichloroethane	3.0	U	0.12	3.0
563-58-6	1,1-Dichloropropene	3.0	U	0.18	3.0
56-23-5	Carbon tetrachloride	3.0	U	1.3	3.0
107-06-2	1,2-Dichloroethane	3.0	U	0.54	3.0
71-43-2	Benzene	3.0	U	1.1	3.0
79-01-6	Trichloroethene	3.0	U	1.0	3.0
78-87-5	1,2-Dichloropropane	3.0	U	0.12	3.0
74-95-3	Dibromomethane	3.0	U	0.48	3.0
75-27-4	Bromodichloromethane	3.0	U	0.12	3.0
10061-01-5	cis-1,3-Dichloropropene	3.0	U	0.12	3.0
108-10-1	4-Methyl-2-pentanone	30	U	1.3	30
108-88-3	Toluene	3.0	U	0.12	3.0
10061-02-6	trans-1,3-Dichloropropene	3.0	U	0.48	3.0
79-00-5	1,1,2-Trichloroethane	3.0	U	0.60	3.0
142-28-9	1,3-Dichloropropane	3.0	U	0.36	3.0

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
CEF-CSDUP-01DL

Lab Name: Mitkem Corporation | Contract:
Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058
Matrix: (soil/water) WATER | Lab Sample ID: D0058-11ADL
Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5644.D
Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00
% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00
Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50
Dil Fac: 6.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 18:02
Prep Batch: 16653 | Analytical Run: V1_050128A
Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	3.0	U	0.12	3.0
591-78-6	2-Hexanone	30	U	1.7	30
124-48-1	Dibromochloromethane	3.0	U	0.36	3.0
106-93-4	1,2-Dibromoethane	3.0	U	0.18	3.0
108-90-7	Chlorobenzene	3.0	U	0.18	3.0
630-20-6	1,1,1,2-Tetrachloroethane	3.0	U	0.24	3.0
100-41-4	**Ethylbenzene**	**15**	**D**	**1.1**	**3.0**
1330-20-7	**m,p-Xylene**	**5.6**	**D**	**2.1**	**3.0**
95-47-6	o-Xylene	3.0	U	0.18	3.0
1330-20-7	**Xylene (Total)**	**5.6**	**D**	**1.0**	**3.0**
100-42-5	Styrene	3.0	U	0.36	3.0
75-25-2	Bromoform	3.0	U	0.78	3.0
98-82-8	**Isopropylbenzene**	**8.1**	**D**	**0.96**	**3.0**
79-34-5	1,1,2,2-Tetrachloroethane	3.0	U	0.78	3.0
108-86-1	Bromobenzene	3.0	U	0.36	3.0
96-18-4	1,2,3-Trichloropropane	3.0	U	0.54	3.0
103-65-1	**n-Propylbenzene**	**14**	**D**	**0.30**	**3.0**
95-49-8	2-Chlorotoluene	3.0	U	0.36	3.0
108-67-8	**1,3,5-Trimethylbenzene**	**9.1**	**D**	**0.18**	**3.0**
106-43-4	4-Chlorotoluene	3.0	U	0.30	3.0
98-06-6	tert-Butylbenzene	3.0	U	0.42	3.0
95-63-6	**1,2,4-Trimethylbenzene**	**100**	**D**	**0.24**	**3.0**
135-98-8	**sec-Butylbenzene**	**9.4**	**D**	**0.24**	**3.0**
99-87-6	**4-Isopropyltoluene**	**7.6**	**D**	**0.18**	**3.0**
541-73-1	1,3-Dichlorobenzene	3.0	U	0.36	3.0
106-46-7	1,4-Dichlorobenzene	3.0	U	0.42	3.0
104-51-8	**n-Butylbenzene**	**11**	**D**	**0.30**	**3.0**
95-50-1	1,2-Dichlorobenzene	3.0	U	1.2	3.0
96-12-8	1,2-Dibromo-3-chloropropane	3.0	U	1.3	3.0
120-82-1	1,2,4-Trichlorobenzene	3.0	U	2.3	3.0
87-68-3	Hexachlorobutadiene	3.0	U	2.1	3.0
87-61-6	1,2,3-Trichlorobenzene	3.0	U	3.0	3.0
91-20-3	**Naphthalene**	**23**	**D**	**2.5**	**3.0**

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1RLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5603.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 11:28

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	11		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	12		0.22	0.50
75-35-4	1,1-Dichloroethene	11		0.060	0.50
67-64-1	Acetone	15		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	10		0.10	0.50
75-34-3	1,1-Dichloroethane	11		0.22	0.50
78-93-3	2-Butanone	12		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	11		0.020	0.50
594-20-7	2,2-Dichloropropane	12		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.8		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	12		0.19	0.50
79-01-6	Trichloroethene	11		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	10		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	11		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.6		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	10		0.10	0.50
142-28-9	1,3-Dichloropropane	11		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1RLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5603.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 11:28

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	11		0.020	0.50
591-78-6	2-Hexanone	11		0.29	5.0
124-48-1	Dibromochloromethane	11		0.060	0.50
106-93-4	1,2-Dibromoethane	11		0.030	0.50
108-90-7	Chlorobenzene	11		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	11		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	24		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	35		0.17	0.50
100-42-5	Styrene	12		0.060	0.50
75-25-2	Bromoform	10		0.13	0.50
98-82-8	Isopropylbenzene	12		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	10		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	12		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	12		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	12		0.030	0.50
541-73-1	1,3-Dichlorobenzene	11		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	9.8		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	10		0.38	0.50
87-68-3	Hexachlorobutadiene	9.1		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.6		0.50	0.50
91-20-3	Naphthalene	9.2		0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
V1SLCS

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: LCS-16653
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5633.D
Level: (low/med) LOW
Date Collected: Time:
% Moisture: Decanted: (Y/N) N
Date Received: Time:
Extract Volume: 25000 (µL)
Date Extracted: 01/28/05 Time: 10:50
Dil Fac: 1.00 Analyst: msztrall
Date Analyzed: 01/28/05 Time: 12:07
Prep Batch: 16653
Analytical Run: V1_050128A
Instrument ID: V1
TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	9.7		0.44	0.50
74-87-3	Chloromethane	10		0.29	0.50
75-01-4	Vinyl chloride	9.7		0.21	0.50
74-83-9	Bromomethane	10		0.21	0.50
75-00-3	Chloroethane	9.9		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	11		0.56	5.0
75-15-0	Carbon disulfide	10		0.030	0.50
75-09-2	Methylene chloride	9.2		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	10		0.020	0.50
1634-04-4	Methyl tert-butyl ether	10		0.10	0.50
75-34-3	1,1-Dichloroethane	9.9		0.22	0.50
78-93-3	2-Butanone	10		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	10		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	10		0.16	0.50
67-66-3	Chloroform	8.8		0.19	0.50
71-55-6	1,1,1-Trichloroethane	10		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	10		0.21	0.50
107-06-2	1,2-Dichloroethane	9.5		0.090	0.50
71-43-2	Benzene	11		0.19	0.50
79-01-6	Trichloroethene	10		0.17	0.50
78-87-5	1,2-Dichloropropane	9.9		0.020	0.50
74-95-3	Dibromomethane	10		0.080	0.50
75-27-4	Bromodichloromethane	9.9		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	10		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.8		0.21	5.0
108-88-3	Toluene	11		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	10		0.080	0.50
79-00-5	1,1,2-Trichloroethane	10		0.10	0.50
142-28-9	1,3-Dichloropropane	10		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1SLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5633.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 12:07

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	9.9		0.020	0.50
591-78-6	2-Hexanone	10		0.29	5.0
124-48-1	Dibromochloromethane	10		0.060	0.50
106-93-4	1,2-Dibromoethane	10		0.030	0.50
108-90-7	Chlorobenzene	10		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	23		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	34		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	10		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	10		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	9.9		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	10		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	10		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	10		0.060	0.50
106-46-7	1,4-Dichlorobenzene	9.8		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	10		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	10		0.38	0.50
87-68-3	Hexachlorobutadiene	9.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.5		0.50	0.50
91-20-3	Naphthalene	9.4		0.42	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1SLCSD

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: LCSD-16653

Sample wt/vol: 25.0 (G/ML) ML Lab File ID: V1G5634.D

Level: (low/med) LOW Date Collected: Time:

% Moisture: Decanted: (Y/N) N Date Received: Time:

Extract Volume: 25000 (µL) Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 1.00 Analyst: msztrall Date Analyzed: 01/28/05 Time: 12:39

Prep Batch: 16653 Analytical Run: V1_050128A

Instrument ID: V1 TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	9.5		0.44	0.50
74-87-3	Chloromethane	9.7		0.29	0.50
75-01-4	Vinyl chloride	9.7		0.21	0.50
74-83-9	Bromomethane	10		0.21	0.50
75-00-3	Chloroethane	9.8		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	9.9		0.060	0.50
67-64-1	Acetone	9.8		0.56	5.0
75-15-0	Carbon disulfide	9.9		0.030	0.50
75-09-2	Methylene chloride	8.8		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	10		0.020	0.50
1634-04-4	Methyl tert-butyl ether	9.2		0.10	0.50
75-34-3	1,1-Dichloroethane	9.6		0.22	0.50
78-93-3	2-Butanone	9.4		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	9.7		0.020	0.50
594-20-7	2,2-Dichloropropane	10		0.23	0.50
74-97-5	Bromochloromethane	9.1		0.16	0.50
67-66-3	Chloroform	8.4		0.19	0.50
71-55-6	1,1,1-Trichloroethane	10		0.020	0.50
563-58-6	1,1-Dichloropropene	10		0.030	0.50
56-23-5	Carbon tetrachloride	10		0.21	0.50
107-06-2	1,2-Dichloroethane	9.0		0.090	0.50
71-43-2	Benzene	10		0.19	0.50
79-01-6	Trichloroethene	9.8		0.17	0.50
78-87-5	1,2-Dichloropropane	9.2		0.020	0.50
74-95-3	Dibromomethane	9.3		0.080	0.50
75-27-4	Bromodichloromethane	9.3		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	9.7		0.020	0.50
108-10-1	4-Methyl-2-pentanone	8.6		0.21	5.0
108-88-3	Toluene	11		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	9.7		0.080	0.50
79-00-5	1,1,2-Trichloroethane	9.5		0.10	0.50
142-28-9	1,3-Dichloropropane	9.5		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1SLCSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCSD-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5634.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 12:39

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	10		0.020	0.50
591-78-6	2-Hexanone	8.2		0.29	5.0
124-48-1	Dibromochloromethane	9.5		0.060	0.50
106-93-4	1,2-Dibromoethane	9.2		0.030	0.50
108-90-7	Chlorobenzene	9.9		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	9.6		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	22		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	33		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	9.3		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	9.3		0.13	0.50
108-86-1	Bromobenzene	9.3		0.060	0.50
96-18-4	1,2,3-Trichloropropane	9.1		0.090	0.50
103-65-1	n-Propylbenzene	10		0.050	0.50
95-49-8	2-Chlorotoluene	10		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	9.9		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	9.9		0.060	0.50
106-46-7	1,4-Dichlorobenzene	9.6		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	9.7		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	8.3		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.5		0.38	0.50
87-68-3	Hexachlorobutadiene	9.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	8.9		0.50	0.50
91-20-3	Naphthalene	8.5		0.42	0.50

FORM I VOA

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-01B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6821.D

Level: (low/med) LOW | Date Collected: 01/18/05 | Time: 10:30

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 16:39

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6822.D

Level: (low/med) LOW | Date Collected: 01/18/05 | Time: 11:20

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 17:16

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CAS NO. COMPOUND — CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6823.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 17:53

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-04B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6824.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 14:55

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 18:31

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-05B
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6825.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 10:42
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 19:08
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6826.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 19:46

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-06BMS
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6827.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 9:55
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 20:23
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.5		0.027	0.10
91-57-6	2-Methylnaphthalene	2.5		0.041	0.10
208-96-8	Acenaphthylene	2.6		0.0097	0.10
83-32-9	Acenaphthene	2.7		0.027	0.10
86-73-7	Fluorene	2.6		0.023	0.10
85-01-8	Phenanthrene	2.6		0.037	0.10
120-12-7	Anthracene	2.5		0.025	0.10
206-44-0	Fluoranthene	2.3		0.046	0.10
129-00-0	Pyrene	2.1		0.030	0.10
56-55-3	Benzo(a)anthracene	1.7		0.018	0.10
218-01-9	Chrysene	1.9		0.018	0.10
205-99-2	Benzo(b)fluoranthene	1.4		0.020	0.10
207-08-9	Benzo(k)fluoranthene	1.5		0.021	0.10
50-32-8	Benzo(a)pyrene	1.4		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.94		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	1.1		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	1.1		0.016	0.10
90-12-0	1-Methylnaphthalene	2.6		0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-06BMSD
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6828.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 9:55
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 21:01
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.3		0.027	0.10
91-57-6	2-Methylnaphthalene	2.3		0.041	0.10
208-96-8	Acenaphthylene	2.5		0.0097	0.10
83-32-9	Acenaphthene	2.6		0.027	0.10
86-73-7	Fluorene	2.6		0.023	0.10
85-01-8	Phenanthrene	2.4		0.037	0.10
120-12-7	Anthracene	2.4		0.025	0.10
206-44-0	Fluoranthene	2.2		0.046	0.10
129-00-0	Pyrene	2.0		0.030	0.10
56-55-3	Benzo(a)anthracene	1.5		0.018	0.10
218-01-9	Chrysene	1.7		0.018	0.10
205-99-2	Benzo(b)fluoranthene	1.2		0.020	0.10
207-08-9	Benzo(k)fluoranthene	1.3		0.021	0.10
50-32-8	Benzo(a)pyrene	1.2		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.96		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.93		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.97		0.016	0.10
90-12-0	1-Methylnaphthalene	2.4		0.041	0.10

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6829.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 21:39

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**20**	**L**	**0.027**	**0.10**
91-57-6	**2-Methylnaphthalene**	**32**	**L**	**0.041**	**0.10**
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	**Acenaphthene**	**0.31**		**0.027**	**0.10**
86-73-7	**Fluorene**	**0.16**		**0.023**	**0.10**
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**31**	**L**	**0.041**	**0.10**

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07BDL

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6843A.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 10.00 | Analyst: awieczorek | Date Analyzed: 01/31/05 | Time: 15:03

Prep Batch: 16595 | Analytical Run: S4_050131A

Instrument ID: S4 | TestCode: PAH_SIM_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**25**	**D**	**0.27**	**1.0**
91-57-6	**2-Methylnaphthalene**	**42**	**D**	**0.41**	**1.0**
208-96-8	Acenaphthylene	1.0	U	0.097	1.0
83-32-9	Acenaphthene	1.0	U	0.27	1.0
86-73-7	Fluorene	1.0	U	0.23	1.0
85-01-8	Phenanthrene	1.0	U	0.37	1.0
120-12-7	Anthracene	1.0	U	0.25	1.0
206-44-0	Fluoranthene	1.0	U	0.46	1.0
129-00-0	Pyrene	1.0	U	0.30	1.0
56-55-3	Benzo(a)anthracene	1.0	U	0.18	1.0
218-01-9	Chrysene	1.0	U	0.18	1.0
205-99-2	Benzo(b)fluoranthene	1.0	U	0.20	1.0
207-08-9	Benzo(k)fluoranthene	1.0	U	0.21	1.0
50-32-8	Benzo(a)pyrene	1.0	U	0.12	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	0.20	1.0
53-70-3	Dibenzo(a,h)anthracene	1.0	U	0.15	1.0
191-24-2	Benzo(g,h,i)perylene	1.0	U	0.16	1.0
90-12-0	**1-Methylnaphthalene**	**40**	**D**	**0.41**	**1.0**

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6830.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 14:17

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 22:16

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**0.10**		**0.041**	**0.10**

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6831.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:19

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 22:54

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	**Fluoranthene**	**0.10**		**0.046**	**0.10**
129-00-0	**Pyrene**	**0.11**		**0.030**	**0.10**
56-55-3	**Benzo(a)anthracene**	**0.11**		**0.018**	**0.10**
218-01-9	**Chrysene**	**0.15**		**0.018**	**0.10**
205-99-2	**Benzo(b)fluoranthene**	**0.11**		**0.020**	**0.10**
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS9-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-10B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6832.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:48

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 23:31

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6833.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/29/05 Time: 0:08

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_STM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**24**	**L**	**0.027**	**0.10**
91-57-6	**2-Methylnaphthalene**	**36**	**L**	**0.041**	**0.10**
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	**Acenaphthene**	**0.33**		**0.027**	**0.10**
86-73-7	**Fluorene**	**0.16**		**0.023**	**0.10**
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**35**	**L**	**0.041**	**0.10**

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11BDL

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6844A.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 10.00 | Analyst: awieczorek | Date Analyzed: 01/31/05 | Time: 15:41

Prep Batch: 16595 | Analytical Run: S4_050131A

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**29**	**D**	**0.27**	**1.0**
91-57-6	**2-Methylnaphthalene**	**45**	**D**	**0.41**	**1.0**
208-96-8	Acenaphthylene	1.0	U	0.097	1.0
83-32-9	Acenaphthene	1.0	U	0.27	1.0
86-73-7	Fluorene	1.0	U	0.23	1.0
85-01-8	Phenanthrene	1.0	U	0.37	1.0
120-12-7	Anthracene	1.0	U	0.25	1.0
206-44-0	Fluoranthene	1.0	U	0.46	1.0
129-00-0	Pyrene	1.0	U	0.30	1.0
56-55-3	Benzo(a)anthracene	1.0	U	0.18	1.0
218-01-9	Chrysene	1.0	U	0.18	1.0
205-99-2	Benzo(b)fluoranthene	1.0	U	0.20	1.0
207-08-9	Benzo(k)fluoranthene	1.0	U	0.21	1.0
50-32-8	Benzo(a)pyrene	1.0	U	0.12	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	0.20	1.0
53-70-3	Dibenzo(a,h)anthracene	1.0	U	0.15	1.0
191-24-2	Benzo(g,h,i)perylene	1.0	U	0.16	1.0
90-12-0	**1-Methylnaphthalene**	**44**	**D**	**0.41**	**1.0**

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

S4ALCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16595

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6820.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 16:01

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.3		0.027	0.10
91-57-6	2-Methylnaphthalene	2.4		0.041	0.10
208-96-8	Acenaphthylene	2.6		0.0097	0.10
83-32-9	Acenaphthene	2.6		0.027	0.10
86-73-7	Fluorene	2.7		0.023	0.10
85-01-8	Phenanthrene	2.7		0.037	0.10
120-12-7	Anthracene	2.7		0.025	0.10
206-44-0	Fluoranthene	2.8		0.046	0.10
129-00-0	Pyrene	2.7		0.030	0.10
56-55-3	Benzo(a)anthracene	2.6		0.018	0.10
218-01-9	Chrysene	2.7		0.018	0.10
205-99-2	Benzo(b)fluoranthene	2.8		0.020	0.10
207-08-9	Benzo(k)fluoranthene	2.8		0.021	0.10
50-32-8	Benzo(a)pyrene	2.7		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	2.8		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	2.9		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	2.7		0.016	0.10
90-12-0	1-Methylnaphthalene	2.4		0.041	0.10

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Level: (low/med)

	EPA SAMPLE NO.	SMC1 DBFM #	SMC2 DCE #	SMC3 TOL #	SMC4 BFB #	TOT OUT
01	VBLK1R	102	102	106	94	0
02	VIRLCS	102	102	108	100	0
03	CEF-CS5-01	102	112	104	94	0
04	CEF-CS4-01	110	120	108	90	0
05	CEF-CS7-01	100	108	102	88	0
06	CEF-CS3-01	112	122	110	84	0
07	CEF-CS6-01	104	108	102	86	0
08	CEF-CS2-01	106	108	102	86	0
09	CEF-CS2-01MS	112	116	114	100	0
10	CEF-CS2-01MSD	112	114	118 *	104	1
11	CEF-CS1A-01	100	106	106	102	0
12	CEF-CS8-01	106	114	108	88	0
13	CEF-CS9-01	104	116	108	90	0
14	CEF-CSDUP-01	104	104	108	104	0
15	VBLK1S	94	94	104	96	0
16	V1SLCS	102	106	108	102	0
17	V1SLCSD	98	94	108	96	0
18	CEF-CS10-01	90	86	102	86	0
19	CEF-CS1A-01DL	93	87	103	93	0
20	CEF-CSDUP-01DL	90	87	103	90	0

			QC Limit
SMC 1	DBFM	= Dibromofluoromethane	(78-117)
SMC 2	DCE	= 1,2-Dichloroethane-d4	(62-124)
SMC 3	TOL	= Toluene-d8	(81-116)
SMC 4	BFB	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM II VOA-1

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Level: (low/med)

	EPA SAMPLE NO.	S1 (BEP) #							TOT OUT
01	SBLK4A	116							0
02	S4ALCS	100							0
03	CEF-CS5-01	76							0
04	CEF-CS4-01	96							0
05	CEF-CS7-01	92							0
06	CEF-CS3-01	96							0
07	CEF-CS6-01	84							0
08	CEF-CS2-01	64							0
09	CEF-CS2-01MS	68							0
10	CEF-CS2-01MSD	64							0
11	CEF-CS1A-01	84							0
12	CEF-CS10-01	76							0
13	CEF-CS8-01	76							0
14	CEF-CS9-01	84							0
15	CEF-CSDUP-01	72							0
16	CEF-CS1A-01DL	104							0
17	CEF-CSDUP-01D	80							0

QC LIMITS

S1 (BEP) = Benzo(e)pyrene-d12 (45-135)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	11	110	48-135
Chloromethane	10	0	11	110	60-118
Vinyl chloride	10	0	10	100	65-113
Bromomethane	10	0	11	110	73-122
Chloroethane	10	0	11	110	72-118
Trichlorofluoromethane	10	0	11	110	68-129
1,1-Dichloroethene	10	0	10	100	67-121
Acetone	10	0	9.8	98	38-161
Carbon disulfide	10	0	11	110	53-137
Methylene chloride	10	0	10	100	59-132
trans-1,2-Dichloroethene	10	0	11	110	71-124
Methyl tert-butyl ether	10	0	11	110	75-123
1,1-Dichloroethane	10	0	10	100	83-116
2-Butanone	10	0	11	110	64-139
cis-1,2-Dichloroethene	10	0	10	100	83-120
2,2-Dichloropropane	10	0	11	110	70-129
Bromochloromethane	10	0	11	110	85-124
Chloroform	10	0	9.1	91	89-118
1,1,1-Trichloroethane	10	0	11	110	81-122
1,1-Dichloropropene	10	0	10	100	76-122
Carbon tetrachloride	10	0	11	110	79-125
1,2-Dichloroethane	10	0	11	110	83-123
Benzene	10	0	11	110	81-120
Trichloroethene	10	0	10	100	77-121
1,2-Dichloropropane	10	0	11	110	81-116
Dibromomethane	10	0	11	110	86-124
Bromodichloromethane	10	0	11	110	90-114
cis-1,3-Dichloropropene	10	0	10	100	78-119
4-Methyl-2-pentanone	10	0	9.2	92	57-138
Toluene	10	0	12	120	81-121
trans-1,3-Dichloropropene	10	0	11	110	85-118

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

1,1,2-Trichloroethane	10	0	11	110	44-159
1,3-Dichloropropane	10	0	10	100	79-125
Tetrachloroethene	10	0	9.8	98	73-121
2-Hexanone	10	0	9	90	53-145
Dibromochloromethane	10	0	10	100	80-124
1,2-Dibromoethane	10	0	10	100	80-124
Chlorobenzene	10	0	10	100	82-118
1,1,1,2-Tetrachloroethane	10	0	10	100	84-121
Ethylbenzene	10	0	10	100	80-122
m,p-Xylene	20	0	22	110	70-130
o-Xylene	10	0	10	100	70-130
Xylene (Total)	30	0	32	107	81-121
Styrene	10	0	10	100	77-128
Bromoform	10	0	11	110	77-130
Isopropylbenzene	10	0	11	110	58-148
1,1,2,2-Tetrachloroethane	10	0	11	110	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	11	110	57-140
n-Propylbenzene	10	0	10	100	72-119
2-Chlorotoluene	10	0	11	110	75-120
1,3,5-Trimethylbenzene	10	0	11	110	76-116
4-Chlorotoluene	10	0	11	110	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	11	110	77-117
sec-Butylbenzene	10	0	11	110	67-117
4-Isopropyltoluene	10	0	11	110	68-118
1,3-Dichlorobenzene	10	0	10	100	80-116
1,4-Dichlorobenzene	10	0	10	100	80-114
n-Butylbenzene	10	0	10	100	58-121
1,2-Dichlorobenzene	10	0	11	110	81-116
1,2-Dibromo-3-chloropropa	10	0	10	100	71-126
1,2,4-Trichlorobenzene	10	0	9.2	92	67-114
Hexachlorobutadiene	10	0	8	80	50-111
1,2,3-Trichlorobenzene	10	0	8.7	87	64-118

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

Naphthalene	10	0	8.6	86	58-133

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	11	110	0	40	48-135
Chloromethane	10	11	110	0	40	60-118
Vinyl chloride	10	11	110	10	40	65-113
Bromomethane	10	11	110	0	40	73-122
Chloroethane	10	11	110	0	40	72-118
Trichlorofluoromethane	10	11	110	0	40	68-129
1,1-Dichloroethene	10	10	100	0	40	67-121
Acetone	10	9.2	92	6	40	38-161
Carbon disulfide	10	11	110	0	40	53-137
Methylene chloride	10	10	100	0	40	59-132
trans-1,2-Dichloroethene	10	11	110	0	40	71-124
Methyl tert-butyl ether	10	11	110	0	40	75-123
1,1-Dichloroethane	10	11	110	10	40	83-116
2-Butanone	10	12	120	9	40	64-139
cis-1,2-Dichloroethene	10	11	110	10	40	83-120
2,2-Dichloropropane	10	11	110	0	40	70-129
Bromochloromethane	10	11	110	0	40	85-124
Chloroform	10	9.3	93	2	40	89-118
1,1,1-Trichloroethane	10	11	110	0	40	81-122
1,1-Dichloropropene	10	11	110	10	40	76-122
Carbon tetrachloride	10	11	110	0	40	79-125
1,2-Dichloroethane	10	11	110	0	40	83-123
Benzene	10	12	120	9	40	81-120
Trichloroethene	10	11	110	10	40	77-121
1,2-Dichloropropane	10	11	110	0	40	81-116
Dibromomethane	10	11	110	0	40	86-124
Bromodichloromethane	10	11	110	0	40	90-114
cis-1,3-Dichloropropene	10	11	110	10	40	78-119

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

4-Methyl-2-pentanone	10	10	100	8	40	57-138
Toluene	10	12	120	0	40	81-121
trans-1,3-Dichloropropene	10	11	110	0	40	85-118
1,1,2-Trichloroethane	10	11	110	0	40	44-159
1,3-Dichloropropane	10	11	110	10	40	79-125
Tetrachloroethene	10	10	100	2	40	73-121
2-Hexanone	10	9.3	93	3	40	53-145
Dibromochloromethane	10	11	110	10	40	80-124
1,2-Dibromoethane	10	11	110	10	40	80-124
Chlorobenzene	10	11	110	10	40	82-118
1,1,1,2-Tetrachloroethane	10	10	100	0	40	84-121
Ethylbenzene	10	11	110	10	40	80-122
m,p-Xylene	20	23	115	4	40	70-130
o-Xylene	10	11	110	10	40	70-130
Xylene (Total)	30	33	110	3	40	81-121
Styrene	10	11	110	10	40	77-128
Bromoform	10	11	110	0	40	77-130
Isopropylbenzene	10	12	120	9	40	58-148
1,1,2,2-Tetrachloroethane	10	11	110	0	40	76-125
Bromobenzene	10	11	110	10	40	76-124
1,2,3-Trichloropropane	10	11	110	0	40	57-140
n-Propylbenzene	10	11	110	10	40	72-119
2-Chlorotoluene	10	11	110	0	40	75-120
1,3,5-Trimethylbenzene	10	12	120*	9	40	76-116
4-Chlorotoluene	10	11	110	0	40	78-116
tert-Butylbenzene	10	12	120*	9	40	71-115
1,2,4-Trimethylbenzene	10	12	120*	9	40	77-117
sec-Butylbenzene	10	12	120*	9	40	67-117
4-Isopropyltoluene	10	11	110	0	40	68-118
1,3-Dichlorobenzene	10	11	110	10	40	80-116
1,4-Dichlorobenzene	10	10	100	0	40	80-114
n-Butylbenzene	10	10	100	0	40	58-121
1,2-Dichlorobenzene	10	11	110	0	40	81-116
1,2-Dibromo-3-chloropropa	10	10	100	0	40	71-126

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

1,2,4-Trichlorobenzene	10	9.8	98	6	40	67-114
Hexachlorobutadiene	10	8.6	86	7	40	50-111
1,2,3-Trichlorobenzene	10	9.5	95	9	40	64-118
Naphthalene	10	9.7	97	12	40	58-133

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: VIRLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	11	110	48-135
Chloromethane	10	0	11	110	60-118
Vinyl chloride	10	0	11	110	65-113
Bromomethane	10	0	11	110	73-122
Chloroethane	10	0	11	110	72-118
Trichlorofluoromethane	10	0	12	120	68-129
1,1-Dichloroethene	10	0	11	110	67-121
Acetone	10	0	15	150	38-161
Carbon disulfide	10	0	11	110	53-137
Methylene chloride	10	0	10	100	59-132
trans-1,2-Dichloroethene	10	0	11	110	71-124
Methyl tert-butyl ether	10	0	10	100	75-123
1,1-Dichloroethane	10	0	11	110	83-116
2-Butanone	10	0	12	120	64-139
cis-1,2-Dichloroethene	10	0	11	110	83-120
2,2-Dichloropropane	10	0	12	120	70-129
Bromochloromethane	10	0	11	110	85-124
Chloroform	10	0	9.8	98	89-118
1,1,1-Trichloroethane	10	0	11	110	81-122
1,1-Dichloropropene	10	0	11	110	76-122
Carbon tetrachloride	10	0	11	110	79-125
1,2-Dichloroethane	10	0	11	110	83-123
Benzene	10	0	12	120	81-120
Trichloroethene	10	0	11	110	77-121
1,2-Dichloropropane	10	0	11	110	81-116
Dibromomethane	10	0	10	100	86-124
Bromodichloromethane	10	0	11	110	90-114
cis-1,3-Dichloropropene	10	0	11	110	78-119
4-Methyl-2-pentanone	10	0	9.6	96	57-138
Toluene	10	0	12	120	81-121
trans-1,3-Dichloropropene	10	0	11	110	85-118
1,1,2-Trichloroethane	10	0	10	100	44-159
1,3-Dichloropropane	10	0	11	110	79-125
Tetrachloroethene	10	0	11	110	73-121
2-Hexanone	10	0	11	110	53-145

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: VIRLCS Level: (low/med) LOW

Dibromochloromethane	10	0	11	110	80-124
1,2-Dibromoethane	10	0	11	110	80-124
Chlorobenzene	10	0	11	110	82-118
1,1,1,2-Tetrachloroethane	10	0	11	110	84-121
Ethylbenzene	10	0	11	110	80-122
m,p-Xylene	20	0	24	120	70-130
o-Xylene	10	0	11	110	70-130
Xylene (Total)	30	0	35	117	81-121
Styrene	10	0	12	120	77-128
Bromoform	10	0	10	100	77-130
Isopropylbenzene	10	0	12	120	58-148
1,1,2,2-Tetrachloroethane	10	0	10	100	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	11	110	57-140
n-Propylbenzene	10	0	11	110	72-119
2-Chlorotoluene	10	0	11	110	75-120
1,3,5-Trimethylbenzene	10	0	12	120*	76-116
4-Chlorotoluene	10	0	11	110	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	12	120*	77-117
sec-Butylbenzene	10	0	12	120*	67-117
4-Isopropyltoluene	10	0	12	120*	68-118
1,3-Dichlorobenzene	10	0	11	110	80-116
1,4-Dichlorobenzene	10	0	10	100	80-114
n-Butylbenzene	10	0	11	110	58-121
1,2-Dichlorobenzene	10	0	11	110	81-116
1,2-Dibromo-3-chloropropa	10	0	9.8	98	71-126
1,2,4-Trichlorobenzene	10	0	10	100	67-114
Hexachlorobutadiene	10	0	9.1	91	50-111
1,2,3-Trichlorobenzene	10	0	9.6	96	64-118
Naphthalene	10	0	9.2	92	58-133

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	9.7	97	48-135
Chloromethane	10	0	10	100	60-118
Vinyl chloride	10	0	9.7	97	65-113
Bromomethane	10	0	10	100	73-122
Chloroethane	10	0	9.9	99	72-118
Trichlorofluoromethane	10	0	11	110	68-129
1,1-Dichloroethene	10	0	10	100	67-121
Acetone	10	0	11	110	38-161
Carbon disulfide	10	0	10	100	53-137
Methylene chloride	10	0	9.2	92	59-132
trans-1,2-Dichloroethene	10	0	10	100	71-124
Methyl tert-butyl ether	10	0	10	100	75-123
1,1-Dichloroethane	10	0	9.9	99	83-116
2-Butanone	10	0	10	100	64-139
cis-1,2-Dichloroethene	10	0	10	100	83-120
2,2-Dichloropropane	10	0	11	110	70-129
Bromochloromethane	10	0	10	100	85-124
Chloroform	10	0	8.8	88*	89-118
1,1,1-Trichloroethane	10	0	10	100	81-122
1,1-Dichloropropene	10	0	11	110	76-122
Carbon tetrachloride	10	0	10	100	79-125
1,2-Dichloroethane	10	0	9.5	95	83-123
Benzene	10	0	11	110	81-120
Trichloroethene	10	0	10	100	77-121
1,2-Dichloropropane	10	0	9.9	99	81-116
Dibromomethane	10	0	10	100	86-124
Bromodichloromethane	10	0	9.9	99	90-114
cis-1,3-Dichloropropene	10	0	10	100	78-119
4-Methyl-2-pentanone	10	0	9.8	98	57-138
Toluene	10	0	11	110	81-121
trans-1,3-Dichloropropene	10	0	10	100	85-118
1,1,2-Trichloroethane	10	0	10	100	44-159
1,3-Dichloropropane	10	0	10	100	79-125
Tetrachloroethene	10	0	9.9	99	73-121
2-Hexanone	10	0	10	100	53-145

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCS Level: (low/med) LOW

Dibromochloromethane	10	0	10	100	80-124
1,2-Dibromoethane	10	0	10	100	80-124
Chlorobenzene	10	0	10	100	82-118
1,1,1,2-Tetrachloroethane	10	0	10	100	84-121
Ethylbenzene	10	0	11	110	80-122
m,p-Xylene	20	0	23	115	70-130
o-Xylene	10	0	11	110	70-130
Xylene (Total)	30	0	34	113	81-121
Styrene	10	0	11	110	77-128
Bromoform	10	0	10	100	77-130
Isopropylbenzene	10	0	11	110	58-148
1,1,2,2-Tetrachloroethane	10	0	10	100	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	9.9	99	57-140
n-Propylbenzene	10	0	11	110	72-119
2-Chlorotoluene	10	0	10	100	75-120
1,3,5-Trimethylbenzene	10	0	11	110	76-116
4-Chlorotoluene	10	0	10	100	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	11	110	77-117
sec-Butylbenzene	10	0	12	120*	67-117
4-Isopropyltoluene	10	0	11	110	68-118
1,3-Dichlorobenzene	10	0	10	100	80-116
1,4-Dichlorobenzene	10	0	9.8	98	80-114
n-Butylbenzene	10	0	11	110	58-121
1,2-Dichlorobenzene	10	0	10	100	81-116
1,2-Dibromo-3-chloropropa	10	0	10	100	71-126
1,2,4-Trichlorobenzene	10	0	10	100	67-114
Hexachlorobutadiene	10	0	9	90	50-111
1,2,3-Trichlorobenzene	10	0	9.5	95	64-118
Naphthalene	10	0	9.4	94	58-133

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCSD Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	9.5	95	2	40	48-135
Chloromethane	10	9.7	97	3	40	60-118
Vinyl chloride	10	9.7	97	0	40	65-113
Bromomethane	10	10	100	0	40	73-122
Chloroethane	10	9.8	98	1	40	72-118
Trichlorofluoromethane	10	11	110	0	40	68-129
1,1-Dichloroethene	10	9.9	99	1	40	67-121
Acetone	10	9.8	98	12	40	38-161
Carbon disulfide	10	9.9	99	1	40	53-137
Methylene chloride	10	8.8	88	4	40	59-132
trans-1,2-Dichloroethene	10	10	100	0	40	71-124
Methyl tert-butyl ether	10	9.2	92	8	40	75-123
1,1-Dichloroethane	10	9.6	96	3	40	83-116
2-Butanone	10	9.4	94	6	40	64-139
cis-1,2-Dichloroethene	10	9.7	97	3	40	83-120
2,2-Dichloropropane	10	10	100	10	40	70-129
Bromochloromethane	10	9.1	91	9	40	85-124
Chloroform	10	8.4	84*	5	40	89-118
1,1,1-Trichloroethane	10	10	100	0	40	81-122
1,1-Dichloropropene	10	10	100	10	40	76-122
Carbon tetrachloride	10	10	100	0	40	79-125
1,2-Dichloroethane	10	9	90	5	40	83-123
Benzene	10	10	100	10	40	81-120
Trichloroethene	10	9.8	98	2	40	77-121
1,2-Dichloropropane	10	9.2	92	7	40	81-116
Dibromomethane	10	9.3	93	7	40	86-124
Bromodichloromethane	10	9.3	93	6	40	90-114
cis-1,3-Dichloropropene	10	9.7	97	3	40	78-119
4-Methyl-2-pentanone	10	8.6	86	13	40	57-138
Toluene	10	11	110	0	40	81-121
trans-1,3-Dichloropropene	10	9.7	97	3	40	85-118
1,1,2-Trichloroethane	10	9.5	95	5	40	44-159
1,3-Dichloropropane	10	9.5	95	5	40	79-125
Tetrachloroethene	10	10	100	1	40	73-121

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCSD Level: (low/med) LOW

2-Hexanone	10	8.2	82	20	40	53-145
Dibromochloromethane	10	9.5	95	5	40	80-124
1,2-Dibromoethane	10	9.2	92	8	40	80-124
Chlorobenzene	10	9.9	99	1	40	82-118
1,1,1,2-Tetrachloroethane	10	9.6	96	4	40	84-121
Ethylbenzene	10	11	110	0	40	80-122
m,p-Xylene	20	22	110	4	40	70-130
o-Xylene	10	11	110	0	40	70-130
Xylene (Total)	30	33	110	3	40	81-121
Styrene	10	11	110	0	40	77-128
Bromoform	10	9.3	93	7	40	77-130
Isopropylbenzene	10	11	110	0	40	58-148
1,1,2,2-Tetrachloroethane	10	9.3	93	7	40	76-125
Bromobenzene	10	9.3	93	7	40	76-124
1,2,3-Trichloropropane	10	9.1	91	8	40	57-140
n-Propylbenzene	10	10	100	10	40	72-119
2-Chlorotoluene	10	10	100	0	40	75-120
1,3,5-Trimethylbenzene	10	11	110	0	40	76-116
4-Chlorotoluene	10	9.9	99	1	40	78-116
tert-Butylbenzene	10	11	110	0	40	71-115
1,2,4-Trimethylbenzene	10	11	110	0	40	77-117
sec-Butylbenzene	10	12	120*	0	40	67-117
4-Isopropyltoluene	10	11	110	0	40	68-118
1,3-Dichlorobenzene	10	9.9	99	1	40	80-116
1,4-Dichlorobenzene	10	9.6	96	2	40	80-114
n-Butylbenzene	10	11	110	0	40	58-121
1,2-Dichlorobenzene	10	9.7	97	3	40	81-116
1,2-Dibromo-3-chloropropa	10	8.3	83	19	40	71-126
1,2,4-Trichlorobenzene	10	9.5	95	5	40	67-114
Hexachlorobutadiene	10	9	90	0	40	50-111
1,2,3-Trichlorobenzene	10	8.9	89	7	40	64-118
Naphthalene	10	8.5	85	10	40	58-133

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

* Values outside of QC limits

COMMENTS:

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
Naphthalene	2.5	0	2.5	100	45-135
2-Methylnaphthalene	2.5	0	2.5	100	45-135
Acenaphthylene	2.5	0	2.6	104	45-135
Acenaphthene	2.5	0	2.7	108	45-135
Fluorene	2.5	0	2.6	104	45-135
Phenanthrene	2.5	0	2.6	104	45-135
Anthracene	2.5	0	2.5	100	45-135
Fluoranthene	2.5	0	2.3	92	45-135
Pyrene	2.5	0	2.1	84	45-135
Benzo(a)anthracene	2.5	0	1.7	68	45-135
Chrysene	2.5	0	1.9	76	45-135
Benzo(b)fluoranthene	2.5	0	1.4	56	45-135
Benzo(k)fluoranthene	2.5	0	1.5	60	45-135
Benzo(a)pyrene	2.5	0	1.4	56	45-135
Indeno(1,2,3-cd)pyrene	2.5	0	0.94	38*	45-135
Dibenzo(a,h)anthracene	2.5	0	1.1	44*	45-135
Benzo(g,h,i)perylene	2.5	0	1.1	44*	45-135
1-Methylnaphthalene	2.5	0	2.6	104	45-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	2.5	2.3	92	8	50	45-135
2-Methylnaphthalene	2.5	2.3	92	8	50	45-135
Acenaphthylene	2.5	2.5	100	4	50	45-135
Acenaphthene	2.5	2.6	104	4	50	45-135
Fluorene	2.5	2.6	104	0	50	45-135
Phenanthrene	2.5	2.4	96	8	50	45-135
Anthracene	2.5	2.4	96	4	50	45-135
Fluoranthene	2.5	2.2	88	4	50	45-135

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

* Values outside of QC limits

RPD: 0 out of 18 outside limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

Pyrene	2.5	2	80	5	50	45-135
Benzo(a)anthracene	2.5	1.5	60	13	50	45-135
Chrysene	2.5	1.7	68	11	50	45-135
Benzo(b)fluoranthene	2.5	1.2	48	15	50	45-135
Benzo(k)fluoranthene	2.5	1.3	52	14	50	45-135
Benzo(a)pyrene	2.5	1.2	48	15	50	45-135
Indeno(1,2,3-cd)pyrene	2.5	0.96	38*	0	50	45-135
Dibenzo(a,h)anthracene	2.5	0.93	37*	17	50	45-135
Benzo(g,h,i)perylene	2.5	0.97	39*	12	50	45-135
1-Methylnaphthalene	2.5	2.4	96	8	0	45-135

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

* Values outside of QC limits

RPD: 0 out of 18 outside limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: S4ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	2.5	0	2.3	92	45-135
2-Methylnaphthalene	2.5	0	2.4	96	45-135
Acenaphthylene	2.5	0	2.6	104	45-135
Acenaphthene	2.5	0	2.6	104	45-135
Fluorene	2.5	0	2.7	108	45-135
Phenanthrene	2.5	0	2.7	108	45-135
Anthracene	2.5	0	2.7	108	45-135
Fluoranthene	2.5	0	2.8	112	45-135
Pyrene	2.5	0	2.7	108	45-135
Benzo(a)anthracene	2.5	0	2.6	104	45-135
Chrysene	2.5	0	2.7	108	45-135
Benzo(b)fluoranthene	2.5	0	2.8	112	45-135
Benzo(k)fluoranthene	2.5	0	2.8	112	45-135
Benzo(a)pyrene	2.5	0	2.7	108	45-135
Indeno(1,2,3-cd)pyrene	2.5	0	2.8	112	45-135
Dibenzo(a,h)anthracene	2.5	0	2.9	116	45-135
Benzo(g,h,i)perylene	2.5	0	2.7	108	45-135
1-Methylnaphthalene	2.5	0	2.4	96	45-135

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

* Values outside of QC limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16639

Level: (low/med) LOW Lab File ID: V1G5602.D

TestCode: SW8260B_25_W Date Extracted: 01/27/05 Time: 10:14

Instrument ID: V1 Date Analyzed: 01/27/05 Time: 10:48

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1RLCS	LCS-16639	V1G5603.D	11:28
02	CEF-CS5-01	D0058-01A	V1G5605.D	13:34
03	CEF-CS4-01	D0058-02A	V1G5606.D	14:08
04	CEF-CS7-01	D0058-03A	V1G5607.D	14:40
05	CEF-CS3-01	D0058-04A	V1G5608.D	15:12
06	CEF-CS6-01	D0058-05A	V1G5609.D	15:45
07	CEF-CS2-01	D0058-06A	V1G5610.D	16:17
08	CEF-CS2-01MS	D0058-06AMS	V1G5611.D	16:49
09	CEF-CS2-01MSD	D0058-06AMSD	V1G5612.D	17:21
10	CEF-CS1A-01	D0058-07A	V1G5613.D	17:53
11	CEF-CS8-01	D0058-09A	V1G5615.D	18:57
12	CEF-CS9-01	D0058-10A	V1G5616.D	19:29
13	CEF-CSDUP-01	D0058-11A	V1G5617.D	20:01

COMMENTS:

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5602.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 10:48

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5602.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 10:48

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

4A
VOLATILE METHOD BLANK SUMMARY

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16653

Level: (low/med) LOW Lab File ID: V1G5632.D

TestCode: SW8260B_25_W Date Extracted: 01/28/05 Time: 10:50

Instrument ID: V1 Date Analyzed: 01/28/05 Time: 11:35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1SLCS	LCS-16653	V1G5633.D	12:07
02	V1SLCSD	LCSD-16653	V1G5634.D	12:39
03	CEF-CS10-01	D0058-08A	V1G5642.D	16:57
04	CEF-CS1A-01DL	D0058-07ADL	V1G5643.D	17:29
05	CEF-CSDUP-01DL	D0058-11ADL	V1G5644.D	18:02

COMMENTS:

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5632.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 11:35

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5632.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 11:35

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client Sample ID

SBLK4A

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16595

Level: (low/med) LOW Lab File ID: S4A6819.D

TestCode: PAH_SIM_W Date Extracted: 01/24/05 Time: 15:00

Instrument ID: S4 Date Analyzed: 01/28/05 Time: 15:23

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S4ALCS	LCS-16595	S4A6820.D	1/28/05
02	CEF-CS5-01	D0058-01B	S4A6821.D	1/28/05
03	CEF-CS4-01	D0058-02B	S4A6822.D	1/28/05
04	CEF-CS7-01	D0058-03B	S4A6823.D	1/28/05
05	CEF-CS3-01	D0058-04B	S4A6824.D	1/28/05
06	CEF-CS6-01	D0058-05B	S4A6825.D	1/28/05
07	CEF-CS2-01	D0058-06B	S4A6826.D	1/28/05
08	CEF-CS2-01MS	D0058-06BMS	S4A6827.D	1/28/05
09	CEF-CS2-01MSD	D0058-06BMSD	S4A6828.D	1/28/05
10	CEF-CS1A-01	D0058-07B	S4A6829.D	1/28/05
11	CEF-CS10-01	D0058-08B	S4A6830.D	1/28/05
12	CEF-CS8-01	D0058-09B	S4A6831.D	1/28/05
13	CEF-CS9-01	D0058-10B	S4A6832.D	1/28/05
14	CEF-CSDUP-01	D0058-11B	S4A6833.D	1/29/05
15	CEF-CS1A-01DL	D0058-07BDL	S4A6843A.D	1/31/05
16	CEF-CSDUP-01DL	D0058-11BDL	S4A6844A.D	1/31/05

COMMENTS:

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

SBLK4A

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16595

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6819.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 15:23

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5580.D BFB Injection Date: 01/26/05

Instrument ID: V1 BFB Injection Time: 15:27

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	48.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	72.0
175	5.0 - 9.0% of mass 174	6.0 (8.4)1
176	95.0 - 101.0% of mass 174	71.2 (99.0)1
177	5.0 - 9.0% of mass 176	4.7 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101P	VSTD0101P	V1G5581.D	01/26/05	15:58
02	VSTD0.51P	VSTD0.51P	V1G5582.D	01/26/05	16:29
03	VSTD0401P	VSTD0401P	V1G5583.D	01/26/05	17:00
04	VSTD0201P	VSTD0201P	V1G5584.D	01/26/05	17:31
05	VSTD0041P	VSTD0041P	V1G5585.D	01/26/05	18:03
06	VSTD0801P	VSTD0801P	V1G5586.D	01/26/05	18:34

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5600.D BFB Injection Date: 01/27/05

Instrument ID: V1 BFB Injection Time: 8:59

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	48.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.5
175	5.0 - 9.0% of mass 174	6.0 (7.8)1
176	95.0 - 101.0% of mass 174	74.3 (95.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101R	VSTD0101R	V1G5601.D	01/27/05	9:29
02	VBLK1R	MB-16639	V1G5602.D	01/27/05	10:48
03	VIRLCS	LCS-16639	V1G5603.D	01/27/05	11:28
04	CEF-CS5-01	D0058-01A	V1G5605.D	01/27/05	13:34
05	CEF-CS4-01	D0058-02A	V1G5606.D	01/27/05	14:08
06	CEF-CS7-01	D0058-03A	V1G5607.D	01/27/05	14:40
07	CEF-CS3-01	D0058-04A	V1G5608.D	01/27/05	15:12
08	CEF-CS6-01	D0058-05A	V1G5609.D	01/27/05	15:45
09	CEF-CS2-01	D0058-06A	V1G5610.D	01/27/05	16:17
10	CEF-CS2-01MS	D0058-06AMS	V1G5611.D	01/27/05	16:49
11	CEF-CS2-01MSD	D0058-06AMSD	V1G5612.D	01/27/05	17:21
12	CEF-CS1A-01	D0058-07A	V1G5613.D	01/27/05	17:53
13	CEF-CS8-01	D0058-09A	V1G5615.D	01/27/05	18:57
14	CEF-CS9-01	D0058-10A	V1G5616.D	01/27/05	19:29
15	CEF-CSDUP-01	D0058-11A	V1G5617.D	01/27/05	20:01

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5630.D BFB Injection Date: 01/28/05

Instrument ID: V1 BFB Injection Time: 9:05

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	49.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	76.3
175	5.0 - 9.0% of mass 174	5.9 (7.7)1
176	95.0 - 101.0% of mass 174	74.0 (96.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101S	VSTD0101S	V1G5631.D	01/28/05	10:18
02	VBLK1S	MB-16653	V1G5632.D	01/28/05	11:35
03	V1SLCS	LCS-16653	V1G5633.D	01/28/05	12:07
04	V1SLCSD	LCSD-16653	V1G5634.D	01/28/05	12:39
05	CEF-CS10-01	D0058-08A	V1G5642.D	01/28/05	16:57
06	CEF-CS1A-01DL	D0058-07ADL	V1G5643.D	01/28/05	17:29
07	CEF-CSDUP-01DL	D0058-11ADL	V1G5644.D	01/28/05	18:02

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6810.D DFTPP Injection Date: 01/28/05

Instrument ID: S4 DFTPP Injection Time: 10:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.2
68	Less than 2.0% of mass 69	0.4 (0.9)1
69	Mass 69 relative abundance	42.8
70	Less than 2.0% of mass 69	0.4 (0.9)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.4
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than mass 443	8.3
442	40.0 - 99.9% of mass 198	45.7
443	17.0 - 23.0% of mass 442	9.0 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014A	SSTD0014A	S4A6811.D	01/28/05	10:41
02	SSTD0.14A	SSTD0.14A	S4A6812.D	01/28/05	11:19
03	SSTD0104A	SSTD0104A	S4A6813.D	01/28/05	11:59
04	SSTD0054A	SSTD0054A	S4A6814.D	01/28/05	12:36
05	SSTD0.54A	SSTD0.54A	S4A6815.D	01/28/05	13:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6816.D DFTPP Injection Date: 01/28/05

Instrument ID: S4 DFTPP Injection Time: 13:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	42.5
70	Less than 2.0% of mass 69	0.4 (1.0)1
127	40.0 - 60.0% of mass 198	43.3
197	Less than 1.0% of mass 198	0.5
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than mass 443	7.2
442	40.0 - 99.9% of mass 198	43.3
443	17.0 - 23.0% of mass 442	9.2 (21.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014B	SSTD0014B	S4A6817.D	01/28/05	14:08
02	SBLK4A	MB-16595	S4A6819.D	01/28/05	15:23
03	S4ALCS	LCS-16595	S4A6820.D	01/28/05	16:01
04	CEF-CS5-01	D0058-01B	S4A6821.D	01/28/05	16:39
05	CEF-CS4-01	D0058-02B	S4A6822.D	01/28/05	17:16
06	CEF-CS7-01	D0058-03B	S4A6823.D	01/28/05	17:53
07	CEF-CS3-01	D0058-04B	S4A6824.D	01/28/05	18:31
08	CEF-CS6-01	D0058-05B	S4A6825.D	01/28/05	19:08
09	CEF-CS2-01	D0058-06B	S4A6826.D	01/28/05	19:46
10	CEF-CS2-01MS	D0058-06BMS	S4A6827.D	01/28/05	20:23
11	CEF-CS2-01MSD	D0058-06BMSD	S4A6828.D	01/28/05	21:01
12	CEF-CS1A-01	D0058-07B	S4A6829.D	01/28/05	21:39
13	CEF-CS10-01	D0058-08B	S4A6830.D	01/28/05	22:16
14	CEF-CS8-01	D0058-09B	S4A6831.D	01/28/05	22:54
15	CEF-CS9-01	D0058-10B	S4A6832.D	01/28/05	23:31
16	CEF-CSDUP-01	D0058-11B	S4A6833.D	01/29/05	0:08

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6840.D DFTPP Injection Date: 01/31/05

Instrument ID: S4 DFTPP Injection Time: 11:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.6
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	46.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.7
365	Greater than 1.0% of mass 198	4.1
441	Present, but less than mass 443	8.9
442	40.0 - 99.9% of mass 198	58.5
443	17.0 - 23.0% of mass 442	11.0 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014C	SSTD0014C	S4A6841.D	01/31/05	11:51
02	CEF-CS1A-01DL	D0058-07BDL	S4A6843A.D	01/31/05	15:03
03	CEF-CSDUP-01DL	D0058-11BDL	S4A6844A.D	01/31/05	15:41

Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.51 V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D
VSTD0801 V1G5586.D

COMPOUND		VSTD0.51P	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P				RRF	% RSD		R^2
Dichlorodifluoromethane	*	0.268	0.299	0.315	0.31	0.296					0.298	6.2	*	
Chloromethane	*	0.561	0.647	0.624	0.642	0.638					0.622	5.7	*	
Vinyl chloride	*	0.496	0.558	0.551	0.569	0.559					0.547	5.3	*	
Bromomethane	*	0.327	0.388	0.376	0.384	0.331					0.361	8.3	*	
Chloroethane	*	0.297	0.325	0.317	0.32	0.305					0.313	3.7	*	
Trichlorofluoromethane	*	0.222	0.353	0.339	0.369	0.363					0.329	18.5	*	
1,1-Dichloroethene	*	0.265	0.324	0.301	0.316	0.314					0.304	7.7	*	
Acetone	*		0.043	0.035	0.03	0.029	0.027				0.033	19.6	*	
Carbon disulfide	*	1.001	1.125	1.077	1.117	1.004					1.065	5.6	*	
Methylene chloride	*	0.366	0.304	0.294	0.297	0.292					0.311	10	*	
trans-1,2-Dichloroethene	*	0.285	0.343	0.333	0.355	0.353					0.334	8.5	*	
Methyl tert-butyl ether	*	0.311	0.38	0.356	0.381	0.38					0.362	8.4	*	
1,1-Dichloroethane	*	0.635	0.678	0.654	0.666	0.634					0.653	2.9	*	
2-Butanone	*		0.055	0.048	0.054	0.051	0.052				0.052	5.3	*	
cis-1,2-Dichloroethene	*	0.28	0.319	0.315	0.326	0.325					0.313	6	*	
2,2-Dichloropropane	*	0.439	0.478	0.502	0.5	0.498					0.483	5.5	*	
Bromochloromethane	*	0.083	0.114	0.112	0.112	0.113					0.107	12.6	*	
Chloroform	*	0.91	0.649	0.565	0.576	0.545					0.649	23.3	*	
1,1,1-Trichloroethane	*	0.364	0.475	0.446	0.463	0.454					0.44	10	*	
1,1-Dichloropropene	*	0.113	0.151	0.144	0.156	0.156					0.144	12.5	*	
Carbon tetrachloride	*	0.307	0.395	0.386	0.39	0.385					0.373	9.9	*	
1,2-Dichloroethane	*	0.221	0.248	0.247	0.248	0.235					0.24	5	*	
Benzene	*	1.22	1.408	1.343	1.295	0.909					1.235	15.8	*	
Trichloroethene	*	0.286	0.348	0.33	0.345	0.339					0.33	7.6	*	
1,2-Dichloropropane	*	0.271	0.301	0.294	0.306	0.297					0.294	4.6	*	

SW8260B

0090

Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.51 V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D VSTD0801 V1G5586.D

COMPOUND		VSTD0.51P	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P					RRF	% RSD		R^2
Dibromomethane	*	0.077	0.106	0.101	0.1	0.1						0.097	11.8	*	
Bromodichloromethane	*	0.276	0.316	0.31	0.319	0.313						0.307	5.7	*	
cis-1,3-Dichloropropene	*	0.279	0.328	0.339	0.361	0.364						0.334	10.3	*	
4-Methyl-2-pentanone	*		0.086	0.081	0.094	0.095	0.105					0.092	10	*	
Toluene	*	1.006	1.246	1.19	1.177	0.827						1.089	15.8	*	
trans-1,3-Dichloropropene	*	0.163	0.217	0.226	0.241	0.245						0.218	15.2	*	
1,1,2-Trichloroethane	*	0.092	0.112	0.109	0.113	0.112						0.108	8	*	
1,3-Dichloropropane	*	0.376	0.415	0.381	0.41	0.398						0.396	4.3	*	
Tetrachloroethene	*	0.407	0.47	0.432	0.464	0.441						0.443	5.8	*	
2-Hexanone	*		0.086	0.073	0.09	0.092	0.1					0.088	11.2	*	
Dibromochloromethane	*	0.229	0.277	0.258	0.284	0.277						0.265	8.5	*	
1,2-Dibromoethane	*	0.165	0.197	0.175	0.196	0.19						0.185	7.6	*	
Chlorobenzene	*	1.122	1.2	1.103	1.182	1.039						1.129	5.7	*	
1,1,1,2-Tetrachloroethane	*	0.35	0.393	0.368	0.4	0.38						0.378	5.2	*	
Ethylbenzene	*	0.474	0.65	0.63	0.692	0.668						0.623	13.8	*	
m,p-Xylene		0.601	0.833	0.79	0.838	0.633						0.739	15.4		
o-Xylene		0.501	0.736	0.72	0.784	0.754						0.699	16.2		
Styrene	*	0.685	1.034	1.008	1.117	0.995						0.968	17	*	
Bromoform	*	0.096	0.114	0.11	0.124	0.119						0.113	9.6	*	
Isopropylbenzene	*	1.194	1.829	1.761	1.838	1.27						1.578	20.2	*	
1,1,2,2-Tetrachloroethane	*	0.491	0.558	0.539	0.539	0.546						0.535	4.8	*	
Bromobenzene	*	0.862	0.987	0.961	0.989	0.982						0.956	5.6	*	
1,2,3-Trichloropropane	*	0.519	0.633	0.589	0.621	0.618						0.596	7.7	*	
n-Propylbenzene	*	0.932	1.306	1.244	1.328	1.345						1.225	15.1	*	
2-Chlorotoluene	*	1.08	1.274	1.199	1.257	1.257						1.213	6.6	*	

SW8260B

FORM VI

Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.51 V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D VSTD0801 V1G5586.D

COMPOUND		VSTD0.51P	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P					RRF	% RSD		R²
1,3,5-Trimethylbenzene	*	3.036	4.233	3.962	4.01	2.974						3.643	16.2	*	
4-Chlorotoluene	*	0.922	1.21	1.124	1.175	1.172						1.121	10.3	*	
tert-Butylbenzene	*	3.061	4.15	3.859	4.008	3.195						3.655	13.5	*	
1,2,4-Trimethylbenzene	*	2.507	3.873	3.618	3.675	2.847						3.304	17.9	*	
sec-Butylbenzene	*	3.591	4.99	4.785	4.695	3.243						4.261	18.5	*	
4-Isopropyltoluene	*	2.519	3.705	3.563	3.634	2.828						3.25	16.6	*	
1,3-Dichlorobenzene	*	1.883	2.069	1.931	2.042	1.929						1.971	4.1	*	
1,4-Dichlorobenzene	*	1.828	1.909	1.798	1.892	1.816						1.849	2.6	*	
n-Butylbenzene	*	1.953	2.843	2.848	3.137	2.65						2.686	16.6	*	
1,2-Dichlorobenzene	*	1.38	1.601	1.508	1.575	1.535						1.52	5.7	*	
1,2-Dibromo-3-chloropropane	*	0.063	0.057	0.054	0.056	0.056						0.057	5.7	*	
1,2,4-Trichlorobenzene	*	0.532	0.633	0.573	0.706	0.719						0.633	12.9	*	
Hexachlorobutadiene	*	0.65	0.571	0.441	0.493	0.481						0.527	15.8	*	
1,2,3-Trichlorobenzene	*	0.513	0.522	0.452	0.538	0.546						0.514	7.2	*	
Naphthalene	*	0.586	0.721	0.579	0.774	0.801						0.692	15	*	
Xylene (Total)	*	0.567	0.801	0.767	0.82	0.673						0.726	14.5	*	
Dibromofluoromethane	*	0.257	0.3	0.3	0.311	0.309						0.295	7.4	*	
1,2-Dichloroethane-d4	*	0.034	0.043	0.043	0.043	0.044						0.041	10.6	*	
Toluene-d8	*	0.948	1.074	1.055	1.068	0.805						0.99	11.7	*	
Bromofluorobenzene	*	0.486	0.54	0.511	0.567	0.533						0.527	5.8	*	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SW8260B

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date(s): 01/28/05 01/28/05

Calibration Times: 10:41 13:14

LAB FILE ID: RRF0.1 = S4A6812.D RRF0.5 = S4A6815.D
RRF1 = S4A6811.D RRF5 = S4A6814.D RRF10 = S4A6813.D

COMPOUND	RRF0.1	RRF0.5	RRF1	RRF5	RRF10	$\overline{RRF}$	% RSD	
Naphthalene	1.098	0.929	1.114	0.836	0.809	0.957	14.9	
2-Methylnaphthalene	0.676	0.529	0.661	0.511	0.502	0.576	14.8	
Acenaphthylene	1.988	1.641	2.076	1.532	1.445	1.736	16.2	
Acenaphthene *	1.232	0.990	1.287	0.936	0.911	1.071	16.4	*
Fluorene	1.380	1.102	1.424	1.073	1.004	1.197	16.0	
Phenanthrene	1.332	1.137	1.267	0.974	0.941	1.130	15.3	
Anthracene	1.211	1.035	1.214	0.974	0.939	1.075	12.1	
Fluoranthene *	1.451	1.204	1.336	1.065	1.007	1.213	15.2	*
Pyrene	2.058	1.608	1.855	1.335	1.332	1.638	19.5	
Benzo(a)anthracene	1.863	1.411	1.643	1.261	1.235	1.483	18.0	
Chrysene	1.619	1.352	1.595	1.203	1.174	1.389	15.2	
Benzo(b)fluoranthene	1.796	1.512	1.731	1.373	1.355	1.553	13.0	
Benzo(k)fluoranthene	1.843	1.472	1.768	1.409	1.371	1.573	13.8	
Benzo(a)pyrene *	1.508	1.329	1.555	1.285	1.274	1.390	9.5	*
Indeno(1,2,3-cd)pyrene	1.761	1.409	1.603	1.449	1.399	1.524	10.2	
Dibenzo(a,h)anthracene	1.224	1.020	1.182	1.107	1.074	1.121	7.3	
Benzo(g,h,i)perylene	1.716	1.331	1.489	1.259	1.207	1.400	14.7	
1-Methylnaphthalene	0.637	0.525	0.639	0.496	0.484	0.556	13.7	

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: S4 Calibration Date(s): 01/28/05 01/28/05

Calibration Times: 10:41 13:14

LAB FILE ID: RRF0.1 = S4A6812.D RRF0.5 = S4A6815.D
RRF1 = S4A6811.D RRF5 = S4A6814.D RRF10 = S4A6813.D

COMPOUND	RRF0.1	RRF0.5	RRF1	RRF5	RRF10	$\overline{RRF}$	% RSD
Benzo(e)pyrene-d12	1.162	1.129	1.177	0.999	0.991	1.092	8.2

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.298	0.287	0.010	-3.7	20.0
Chloromethane	0.622	0.611	0.100	-1.8	20.0
Vinyl chloride	0.547	0.533	0.010	-2.6	20.0
Bromomethane	0.361	0.365	0.010	1.1	20.0
Chloroethane	0.313	0.308	0.300	-1.6	20.0
Trichlorofluoromethane	0.329	0.327	0.010	-0.6	20.0
1,1-Dichloroethene	0.304	0.298	0.010	-2.0	20.0
Acetone	0.033	0.052	0.010	57.6	20.0
Carbon disulfide	1.065	1.050	0.010	-1.4	20.0
Methylene chloride	0.311	0.270	0.010	-13.2	20.0
trans-1,2-Dichloroethene	0.334	0.330	0.010	-1.2	20.0
Methyl tert-butyl ether	0.362	0.332	0.100	-8.3	20.0
1,1-Dichloroethane	0.653	0.629	0.010	-3.7	20.0
2-Butanone	0.052	0.054	0.010	3.8	20.0
cis-1,2-Dichloroethene	0.313	0.300	0.010	-4.2	20.0
2,2-Dichloropropane	0.483	0.494	0.010	2.3	20.0
Bromochloromethane	0.107	0.106	0.010	-0.9	20.0
Chloroform	0.649	0.549	0.010	-15.4	20.0
1,1,1-Trichloroethane	0.440	0.437	0.010	-0.7	20.0
1,1-Dichloropropene	0.144	0.145	0.010	0.7	20.0
Carbon tetrachloride	0.373	0.377	0.010	1.1	20.0
1,2-Dichloroethane	0.240	0.232	0.010	-3.3	20.0
Benzene	1.235	1.293	0.010	4.7	20.0
Trichloroethene	0.330	0.326	0.010	-1.2	20.0
1,2-Dichloropropane	0.294	0.278	0.010	-5.4	20.0
Dibromomethane	0.097	0.092	0.010	-5.2	20.0
Bromodichloromethane	0.307	0.298	0.010	-2.9	20.0
cis-1,3-Dichloropropene	0.334	0.329	0.010	-1.5	20.0
4-Methyl-2-pentanone	0.092	0.076	0.010	-17.4	20.0
Toluene	1.089	1.151	0.010	5.7	20.0
trans-1,3-Dichloropropene	0.218	0.217	0.010	-0.5	20.0
1,1,2-Trichloroethane	0.108	0.100	0.010	-7.4	20.0
1,3-Dichloropropane	0.396	0.367	0.010	-7.3	20.0
Tetrachloroethene	0.443	0.420	0.010	-5.2	20.0
2-Hexanone	0.088	0.075	0.010	-14.8	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibromochloromethane	0.265	0.244	0.010	-7.9	20.0
1,2-Dibromoethane	0.185	0.174	0.010	-5.9	20.0
Chlorobenzene	1.129	1.068	0.010	-5.4	20.0
1,1,1,2-Tetrachloroethane	0.378	0.347	0.010	-8.2	20.0
Ethylbenzene	0.623	0.635	0.010	1.9	20.0
m,p-Xylene	0.739	1.561		111.2	
o-Xylene	0.699	0.696		-0.4	
Xylene (Total)	0.726	2.258	0.010	211.0	20.0
Styrene	0.968	0.974	0.100	0.6	20.0
Bromoform	0.113	0.101	0.010	-10.6	20.0
Isopropylbenzene	1.578	1.715	0.010	8.7	20.0
1,1,2,2-Tetrachloroethane	0.535	0.501	0.300	-6.4	20.0
Bromobenzene	0.956	0.920	0.010	-3.8	20.0
1,2,3-Trichloropropane	0.596	0.597	0.010	0.2	20.0
n-Propylbenzene	1.225	1.301	0.010	6.2	20.0
2-Chlorotoluene	1.213	1.221	0.010	0.7	20.0
1,3,5-Trimethylbenzene	3.643	3.991	0.010	9.6	20.0
4-Chlorotoluene	1.121	1.149	0.010	2.5	20.0
tert-Butylbenzene	3.655	3.935	0.010	7.7	20.0
1,2,4-Trimethylbenzene	3.304	3.617	0.010	9.5	20.0
sec-Butylbenzene	4.261	4.824	0.010	13.2	20.0
4-Isopropyltoluene	3.250	3.594	0.010	10.6	20.0
1,3-Dichlorobenzene	1.971	1.936	0.010	-1.8	20.0
1,4-Dichlorobenzene	1.849	1.787	0.010	-3.4	20.0
n-Butylbenzene	2.686	2.910	0.010	8.3	20.0
1,2-Dichlorobenzene	1.520	1.485	0.010	-2.3	20.0
1,2-Dibromo-3-chloropropane	0.057	0.055	0.010	-3.5	20.0
1,2,4-Trichlorobenzene	0.633	0.575	0.010	-9.2	20.0
Hexachlorobutadiene	0.527	0.459	0.010	-12.9	20.0
1,2,3-Trichlorobenzene	0.514	0.441	0.010	-14.2	20.0
Naphthalene	0.692	0.579	0.010	-16.3	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.286	0.010	-3.1	20.0
1,2-Dichloroethane-d4	0.041	0.042	0.010	2.4	20.0
Toluene-d8	0.990	1.037	0.010	4.7	20.0
Bromofluorobenzene	0.527	0.508	0.010	-3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.298	0.293	0.010	-1.7	20.0
Chloromethane	0.622	0.639	0.100	2.7	20.0
Vinyl chloride	0.547	0.553	0.010	1.1	20.0
Bromomethane	0.361	0.377	0.010	4.4	20.0
Chloroethane	0.313	0.312	0.300	-0.3	20.0
Trichlorofluoromethane	0.329	0.368	0.010	11.9	20.0
1,1-Dichloroethene	0.304	0.310	0.010	2.0	20.0
Acetone	0.033	0.034	0.010	3.0	20.0
Carbon disulfide	1.065	1.109	0.010	4.1	20.0
Methylene chloride	0.311	0.262	0.010	-15.8	20.0
trans-1,2-Dichloroethene	0.334	0.345	0.010	3.3	20.0
Methyl tert-butyl ether	0.362	0.326	0.100	-9.9	20.0
1,1-Dichloroethane	0.653	0.626	0.010	-4.1	20.0
2-Butanone	0.052	0.048	0.010	-7.7	20.0
cis-1,2-Dichloroethene	0.313	0.303	0.010	-3.2	20.0
2,2-Dichloropropane	0.483	0.517	0.010	7.0	20.0
Bromochloromethane	0.107	0.098	0.010	-8.4	20.0
Chloroform	0.649	0.548	0.010	-15.6	20.0
1,1,1-Trichloroethane	0.440	0.456	0.010	3.6	20.0
1,1-Dichloropropene	0.144	0.153	0.010	6.3	20.0
Carbon tetrachloride	0.373	0.378	0.010	1.3	20.0
1,2-Dichloroethane	0.240	0.205	0.010	-14.6	20.0
Benzene	1.235	1.312	0.010	6.2	20.0
Trichloroethene	0.330	0.340	0.010	3.0	20.0
1,2-Dichloropropane	0.294	0.272	0.010	-7.5	20.0
Dibromomethane	0.097	0.089	0.010	-8.2	20.0
Bromodichloromethane	0.307	0.280	0.010	-8.8	20.0
cis-1,3-Dichloropropene	0.334	0.317	0.010	-5.1	20.0
4-Methyl-2-pentanone	0.092	0.075	0.010	-18.5	20.0
Toluene	1.089	1.201	0.010	10.3	20.0
trans-1,3-Dichloropropene	0.218	0.204	0.010	-6.4	20.0
1,1,2-Trichloroethane	0.108	0.101	0.010	-6.5	20.0
1,3-Dichloropropane	0.396	0.366	0.010	-7.6	20.0
Tetrachloroethene	0.443	0.461	0.010	4.1	20.0
2-Hexanone	0.088	0.081	0.010	-8.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibromochloromethane	0.265	0.249	0.010	-6.0	20.0
1,2-Dibromoethane	0.185	0.172	0.010	-7.0	20.0
Chlorobenzene	1.129	1.118	0.010	-1.0	20.0
1,1,1,2-Tetrachloroethane	0.378	0.375	0.010	-0.8	20.0
Ethylbenzene	0.623	0.690	0.010	10.8	20.0
m,p-Xylene	0.739	1.672		126.3	
o-Xylene	0.699	0.754		7.9	
Xylene (Total)	0.726	2.427	0.010	234.3	20.0
Styrene	0.968	1.012	0.100	4.5	20.0
Bromoform	0.113	0.108	0.010	-4.4	20.0
Isopropylbenzene	1.578	1.891	0.010	19.8	20.0
1,1,2,2-Tetrachloroethane	0.535	0.506	0.300	-5.4	20.0
Bromobenzene	0.956	0.953	0.010	-0.3	20.0
1,2,3-Trichloropropane	0.596	0.561	0.010	-5.9	20.0
n-Propylbenzene	1.225	1.333	0.010	8.8	20.0
2-Chlorotoluene	1.213	1.285	0.010	5.9	20.0
1,3,5-Trimethylbenzene	3.643	4.218	0.010	15.8	20.0
4-Chlorotoluene	1.121	1.163	0.010	3.7	20.0
tert-Butylbenzene	3.655	4.229	0.010	15.7	20.0
1,2,4-Trimethylbenzene	3.304	3.768	0.010	14.0	20.0
sec-Butylbenzene	4.261	5.185	0.010	21.7	20.0
4-Isopropyltoluene	3.250	3.837	0.010	18.1	20.0
1,3-Dichlorobenzene	1.971	1.975	0.010	0.2	20.0
1,4-Dichlorobenzene	1.849	1.826	0.010	-1.2	20.0
n-Butylbenzene	2.686	3.089	0.010	15.0	20.0
1,2-Dichlorobenzene	1.520	1.494	0.010	-1.7	20.0
1,2-Dibromo-3-chloropropane	0.057	0.050	0.010	-12.3	20.0
1,2,4-Trichlorobenzene	0.633	0.583	0.010	-7.9	20.0
Hexachlorobutadiene	0.527	0.522	0.010	-0.9	20.0
1,2,3-Trichlorobenzene	0.514	0.437	0.010	-15.0	20.0
Naphthalene	0.692	0.573	0.010	-17.2	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.279	0.010	-5.4	20.0
1,2-Dichloroethane-d4	0.041	0.040	0.010	-2.4	20.0
Toluene-d8	0.990	1.074	0.010	8.5	20.0
Bromofluorobenzene	0.527	0.515	0.010	-2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/28/05 Time: 14:08

Lab File ID: S4A6817.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014B Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.957	1.098		14.7	
2-Methylnaphthalene	0.576	0.667		15.8	
Acenaphthylene	1.736	2.065		19.0	
Acenaphthene	1.071	1.277		19.2	20.0
Fluorene	1.197	1.427		19.2	
Phenanthrene	1.130	1.281		13.4	
Anthracene	1.075	1.238		15.2	
Fluoranthene	1.213	1.372		13.1	20.0
Pyrene	1.638	1.796		9.6	
Benzo(a)anthracene	1.483	1.631		10.0	
Chrysene	1.389	1.576		13.5	
Benzo(b)fluoranthene	1.553	1.723		10.9	
Benzo(k)fluoranthene	1.573	1.799		14.4	
Benzo(a)pyrene	1.390	1.580		13.7	20.0
Indeno(1,2,3-cd)pyrene	1.524	1.699		11.5	
Dibenzo(a,h)anthracene	1.121	1.244		11.0	
Benzo(g,h,i)perylene	1.400	1.502		7.3	
1-Methylnaphthalene	0.556	0.659		18.5	

All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/28/05 Time: 14:08

Lab File ID: S4A6817.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014B Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzo(e)pyrene-d12	1.092	1.157		6.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/31/05 Time: 11:51

Lab File ID: S4A6841.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014C Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.957	0.892		-6.8	
2-Methylnaphthalene	0.576	0.575		-0.2	
Acenaphthylene	1.736	1.589		-8.5	
Acenaphthene	1.071	0.967		-9.7	20.0
Fluorene	1.197	1.164		-2.8	
Phenanthrene	1.130	1.023		-9.5	
Anthracene	1.075	1.010		-6.0	
Fluoranthene	1.213	1.132		-6.7	20.0
Pyrene	1.638	1.336		-18.4	
Benzo(a)anthracene	1.483	1.291		-12.9	
Chrysene	1.389	1.242		-10.6	
Benzo(b)fluoranthene	1.553	1.380		-11.1	
Benzo(k)fluoranthene	1.573	1.423		-9.5	
Benzo(a)pyrene	1.390	1.280		-7.9	20.0
Indeno(1,2,3-cd)pyrene	1.524	1.328		-12.9	
Dibenzo(a,h)anthracene	1.121	1.012		-9.7	
Benzo(g,h,i)perylene	1.400	1.168		-16.6	
1-Methylnaphthalene	0.556	0.557		0.2	

All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/31/05 Time: 11:51

Lab File ID: S4A6841.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014C Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzo(c)pyrene-d12	1.092	1.018		-6.8	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID (Standard): V1G5601.D Date Analyzed: 01/27/05

EPA Sample No.(VSTD050##): VSTD0101R Time Analyzed: 9:29

Instrument ID: V1 Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	2996812	6.85965	1720877	10.56605	618222	13.37112
	UPPER LIMIT	5993624	7.35965	3441754	11.06605	1236444	13.87112
	LOWER LIMIT	1498406	6.35965	860439	10.06605	309111	12.87112
	EPA SAMPLE						
01	VBLK1R	2865124	6.86	1531616	10.56	479757	13.37
02	VIRLCS	2590482	6.85	1457345	10.56	565855	13.37
03	CEF-CS5-01	2493542	6.85	1370163	10.56	454341	13.37
04	CEF-CS4-01	2268395	6.85	1419458	10.55	459027	13.37
05	CEF-CS7-01	2546117	6.84	1405046	10.56	446464	13.36
06	CEF-CS3-01	2268975	6.85	1380871	10.55	419710	13.37
07	CEF-CS6-01	2516185	6.85	1360112	10.56	416156	13.37
08	CEF-CS2-01	2465778	6.85	1362366	10.56	411364	13.36
09	CEF-CS2-01MS	2641250	6.84	1543055	10.55	563120	13.36
10	CEF-CS2-01MSD	2482907	6.83	1430064	10.55	523061	13.36
11	CEF-CS1A-01	2490690	6.83	1449529	10.55	640358	13.36
12	CEF-CS8-01	2263174	6.82	1340785	10.54	431941	13.35
13	CEF-CS9-01	2229507	6.82	1292222	10.54	419090	13.35
14	CEF-CSDUP-01	2243919	6.82	1372236	10.53	601136	13.35

IS1 = Fluorobenzene
IS2 = Chlorobenzene-d5
IS3 = 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.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID (Standard): V1G5631.D Date Analyzed: 01/28/05

EPA Sample No.(VSTD050##): VSTD0101S Time Analyzed: 10:18

Instrument ID: V1 Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	2624582	6.81013	1430907	10.5243	531406	13.33713
	UPPER LIMIT	5249164	7.31013	2861814	11.0243	1062812	13.83713
	LOWER LIMIT	1312291	6.31013	715454	10.0243	265703	12.83713
	EPA SAMPLE						
01	VBLK1S	2387469	6.82	1298985	10.53	427046	13.35
02	V1SLCS	2507614	6.82	1400274	10.52	541408	13.34
03	V1SLCSD	2549851	6.81	1404392	10.53	535675	13.34
04	CEF-CS10-01	2186941	6.81	1072461	10.53	339730	13.35
05	CEF-CS1A-01DL	2151248	6.82	1119472	10.53	421532	13.34
06	CEF-CSDUP-01DL	2123653	6.82	1093273	10.52	407753	13.34

IS1 = Fluorobenzene
IS2 = Chlorobenzene-d5
IS3 = 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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014B Date Analyzed: 01/28/05

Lab File ID (Standard): S4A6817.D Time Analyzed: 14:08

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	368104	7.90	1128324	9.79	558036	12.51
	UPPER LIMIT	736208	8.40	2256648	10.29	1116072	13.01
	LOWER LIMIT	184052	7.40	564162	9.29	279018	12.01
	EPA SAMPLE NO.						
01	SBLK4A	300538	7.90	881945	9.79	425333	12.51
02	S4ALCS	278189	7.91	787363	9.79	373340	12.51
03	CEF-CS5-01	345117	7.90	990196	9.79	485154	12.51
04	CEF-CS4-01	346186	7.91	985740	9.79	466927	12.51
05	CEF-CS7-01	418030	7.90	1244158	9.79	614212	12.51
06	CEF-CS3-01	342017	7.91	968967	9.79	463271	12.51
07	CEF-CS6-01	367998	7.90	1013987	9.79	492300	12.51
08	CEF-CS2-01	406252	7.90	1190285	9.79	595847	12.51
09	CEF-CS2-01MS	356863	7.91	1013989	9.79	505727	12.51
10	CEF-CS2-01MSD	377092	7.91	1021375	9.79	500759	12.51
11	CEF-CS1A-01	335525	7.91	919246	9.79	480566	12.51
12	CEF-CS10-01	434868	7.90	1300280	9.79	676995	12.51
13	CEF-CS8-01	375450	7.90	1110438	9.79	552715	12.51
14	CEF-CS9-01	330585	7.90	899861	9.79	447275	12.51
15	CEF-CSDUP-01	426312	7.90	1233042	9.79	667763	12.51

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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.

page 1 of 1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014B Date Analyzed: 01/28/05

Lab File ID (Standard): S4A6817.D Time Analyzed: 14:08

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	884882	14.84	706368	19.01	607429	22.11
	UPPER LIMIT	1769764	15.34	1412736	19.51	1214858	22.61
	LOWER LIMIT	442441	14.34	353184	18.51	303715	21.61
	EPA SAMPLE NO.						
01	SBLK4A	649283	14.85	512330	19.01	432699	22.11
02	S4ALCS	576144	14.84	464673	19.01	395509	22.11
03	CEF-CS5-01	734796	14.84	601885	19.01	518810	22.11
04	CEF-CS4-01	704462	14.84	567168	19.01	488678	22.11
05	CEF-CS7-01	926608	14.84	760880	19.01	671678	22.11
06	CEF-CS3-01	712768	14.84	603313	19.01	530084	22.11
07	CEF-CS6-01	745467	14.84	642103	19.01	556524	22.11
08	CEF-CS2-01	931105	14.84	815940	19.01	708320	22.11
09	CEF-CS2-01MS	767215	14.84	648105	19.01	583675	22.11
10	CEF-CS2-01MSD	765160	14.84	660756	19.01	588943	22.11
11	CEF-CS1A-01	727327	14.84	624429	19.01	549994	22.11
12	CEF-CS10-01	1037692	14.84	873641	19.01	754413	22.11
13	CEF-CS8-01	811900	14.84	668185	19.01	582443	22.11
14	CEF-CS9-01	680637	14.84	587402	19.01	508296	22.11
15	CEF-CSDUP-01	1008408	14.84	844778	19.01	721392	22.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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 values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014C Date Analyzed: 01/31/05

Lab File ID (Standard): S4A6841.D Time Analyzed: 11:51

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	366438	7.91	1164048	9.79	638385	12.51
	UPPER LIMIT	732876	8.41	2328096	10.29	1276770	13.01
	LOWER LIMIT	183219	7.41	582024	9.29	319193	12.01
	EPA SAMPLE NO.						
01	CEF-CS1A-01DL	270187	7.91	866122	9.79	456824	12.51
02	CEF-CSDUP-01DL	268487	7.91	860499	9.78	452133	12.51

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014C Date Analyzed: 01/31/05

Lab File ID (Standard): S4A6841.D Time Analyzed: 11:51

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1040013	14.84	921975	19.01	812034	22.11
	UPPER LIMIT	2080026	15.34	1843950	19.51	1624068	22.61
	LOWER LIMIT	520007	14.34	460988	18.51	406017	21.61
	EPA SAMPLE NO.						
01	CEF-CS1A-01DL	747886	14.84	651992	19.01	545224	22.11
02	CEF-CSDUP-01DL	741337	14.84	644346	19.01	532610	22.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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 values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

Analytical Data Package for Tetra Tech NUS, Inc.

Client Project: CTO-213, Cecil Field, FL

SDG# MD0058

Mitkem Work Order ID: D0058

February 21, 2005

Prepared For: Tetra Tech NUS, Inc.
661 Anderson Drive
Pittsburgh, PA 15220
Attn: Ms. Amy Thomson

Prepared By: Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Tetra Tech NUS Inc.'s CTO-213, Cecil Field, FL project. Under this deliverable, analysis results are presented for eleven aqueous samples that were received at Mitkem on January 20, 2005 and logged in under Mitkem Work Order Number D0058. Analyses were performed per specifications in the project's contract and the chain of custody forms. The Mitkem Work Order report is included with the chain of custody form to cross-reference laboratory and client sample ID.

The analyses were performed according to EPA SW-846 protocols and reported in a CLP-type format for Level 4 deliverable.

The modified CLP-type forms include the sample-specific reporting limit (PQL) and method detection limit (MDL). Please note that the MDL is a statistically derived value, and may not be achievable in field samples due to a number of factors. Data have also been qualified based on flagging requirements for Florida.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recovery of toluene-d8 in sample CEF-CS2-01MSD.

Lab control sample: spike recoveries were within the QC limits with the exception of elevated recovery for chloroethane in V6LLCS.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on sample CEF-CS2-01. Spike recoveries were within the QC limits with the exception of high recovery of 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene and sec-butylbenzene in the matrix spike duplicate. Replicate RPDs were within the QC limits.

Sample analysis: due to high concentration of target analytes, the following samples were re-analyzed at dilution: CEF-CS1A-01 (6x) and CEF-CSDUP-01 (6x). No other unusual observation was made for the analysis.

3. Semivolatile SIM Analysis:

Samples were analyzed for polynuclear aromatic hydrocarbons (PAH) using the selected ion monitoring (SIM) approach.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits with the exception of low recovery of hexachlorocyclopentadiene in S4CLCS.

Matrix spike/matrix spike duplicate: Duplicate matrix spikes were performed on sample CEF-CS2-01. Spike recoveries were within the QC with the exception of low recovery of indeno (1,2,3-cd) pyrene, dibenzo (a,h) anthracene, and benzo (g,h,i) perylene in both the matrix spike and matrix spike duplicate. Replicate RPDs were within the QC limits.

Sample analysis: due to high concentration of target analytes, the following samples were re-analyzed at dilution: CEF-CS1A-01 (10x) and CEF-CSDUP-01 (10x). No other unusual observation was made for the analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
02/21/05

Mitkem Corporation — *21/Jan/05 09:35* — WorkOrder: D0058

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-01A	CEF-CS5-01	01/18/05 10:30	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-01B	CEF-CS5-01	01/18/05 10:30	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-02A	CEF-CS4-01	01/18/05 11:20	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-02B	CEF-CS4-01	01/18/05 11:20	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-03A	CEF-CS7-01	01/18/05 13:50	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-03B	CEF-CS7-01	01/18/05 13:50	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-04A	CEF-CS3-01	01/18/05 14:55	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-04B	CEF-CS3-01	01/18/05 14:55	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-05A	CEF-CS6-01	01/19/05 10:42	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-05B	CEF-CS6-01	01/19/05 10:42	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1

Client Rep: Edward A Lawler

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-06A	CEF-CS2-01	01/19/05 09:55	01/20/05	Aqueous	SW8260B_25_W			✔		VOA
D0058-06B	CEF-CS2-01	01/19/05 09:55	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,		✔	✔	H1
D0058-07A	CEF-CS1A-01	01/19/05 11:15	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-07B	CEF-CS1A-01	01/19/05 11:15	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-08A	CEF-CS10-01	01/19/05 14:17	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-08B	CEF-CS10-01	01/19/05 14:17	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-09A	CEF-CS8-01	01/19/05 13:19	01/20/05	Aqueous	SW8260B_25_W					VOA
D0058-09B	CEF-CS8-01	01/19/05 13:19	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,			✔	H1
D0058-10A	CEF-CS9-01	01/19/05 13:48	01/20/05	Aqueous	SW8260B_25_W					VOA

Client Rep: Edward A Lawler

Mitkem Corporation

21/Jan/05 09:35

WorkOrder: D0058

Client ID: TETRA_NAVY
Project: CTO-213 Cecil Field, FL
Location:
Comments: Use special LIMS module to report PQL/MDL (like CH2M forms), and special Florida Flags. Please email "fax in standard format" results to dalem@ttnus.com (merv dale). Final results to be in special forms with Florida flags.

Case:
SDG:
PO: MSA-0402-N4113-09, REL. 1000893

Report Level: LEVEL 4
EDD: TTNUS
HC Due: 02/10/05
Fax Due: 01/31/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D0058-10B	CEF-CS9-01	01/19/05 13:48	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	✔	H1
D0058-11A	CEF-CSDUP-01	01/19/05 00:00	01/20/05	Aqueous	SW8260B_25_W		☐	☐	☐	VOA
D0058-11B	CEF-CSDUP-01	01/19/05 00:00	01/20/05	Aqueous	PAH_SIM_W	Add 1-methylnap. to ICAL,	☐	☐	✔	H1

Client Rep: Edward A Lawler

0007

Sample Transmittal Documentation

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER CS-1 | PAGE 1 OF 1

PROJECT NO: N4117 CTO 213	FACILITY: OCALA F-18 Crash Site	PROJECT MANAGER: PAUL CALLIGAN	PHONE NUMBER: 813 806 0202	LABORATORY NAME AND CONTACT: MITKEM B. Dodge
SAMPLERS (SIGNATURE): Maurin W. Dale		FIELD OPERATIONS LEADER: MERV DAVE	PHONE NUMBER: 904 636 6125	ADDRESS: 175 METRO CENTER Blvd.
		CARRIER/WAYBILL NUMBER: Fedex 8427 1834 9400 / 9410		CITY, STATE: WARWICK, RI 02886-1755

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCl None

	DATE YEAR 2005	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: VOCs 8260B	PAHs 8310						COMMENTS
01	1/18	1030	CEF-CS5-01				GW	G	3	2	1						Cool to 4°C
02	1/18	1120	CEF-CS4-01				GW	G	3	2	1						
03	1/18	1350	CEF-CS7-01				GW	G	3	2	1						
04	1/18	1455	CEF-CS3-01 MD				GW	G	3	2	1						WR #1000893
05	1/19	1042	CEF-CS6-01				GW	G	3	2	1						
06	1/19	0955	CEF-CS2-01				GW	G	9	6	3						
07	1/19	1115	CEF-CS1A-01				GW	G	3	2	1						
08	1/19	1417	CEF-CS10-01				GW	G	3	2	1						
09	1/19	1319	CEF-CS8-01				GW	G	3	2	1						
10	1/19	1348	CEF-CS9-01				GW	G	3	2	1						
11	1/19	0000	CEF-CS Dup-01				GW	G	3	2	1						

1. RELINQUISHED BY: Maurin W. Dale	DATE 1/19/05	TIME 1815	1. RECEIVED BY: Fedex	DATE 1/19/05	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY: Shirley Ng	DATE 1/19/05	TIME 0900
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS			4°		

6000

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: SN	Reviewed By: TG	Date: 1/20/05	MITKEM Project #: D0058
Client Project: CTO 213		Client: TT Navy	

Cooler Sealed Yes / No

1) Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

2) Custody Seal Number(s) NA

3) Chain-of-Custody Present / Absent

4) Cooler Temperature 4°
Coolant Condition ice

5) Airbill(s) Present / Absent
Airbill Number(s) 842718349410
842718349400
?

6) Sample Bottles Intact/Broken/Leakin

7) Date Received 1/20/05

8) Time Received 0900

Preservative Name/Lot No:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"
D0058	01					H	
	02						
	03						
	04						
	05						
	06						
	07						
	08						
	09						
	10						
	11					H	

VOA Matrix Key:
US = Unpreserved Soil A = Air
UA = Unpreserved Aqueo H = HCl
M/N= MeOH & $NaHSO_4$ E = Encore
N = $NaHSO_4$ M =MeOH

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no

Form ID: SampleCond.Form-11/04

MITKEM CORPORATION

* Volatiles *

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Level: (low/med)

	EPA SAMPLE NO.	SMC1 DBFM #	SMC2 DCE #	SMC3 TOL #	SMC4 BFB #	TOT OUT
01	VBLK1R	102	102	106	94	0
02	V1RLCS	102	102	108	100	0
03	CEF-CS5-01	102	112	104	94	0
04	CEF-CS4-01	110	120	108	90	0
05	CEF-CS7-01	100	108	102	88	0
06	CEF-CS3-01	112	122	110	84	0
07	CEF-CS6-01	104	108	102	86	0
08	CEF-CS2-01	106	108	102	86	0
09	CEF-CS2-01MS	112	116	114	100	0
10	CEF-CS2-01MSD	112	114	118 *	104	1
11	CEF-CS1A-01	100	106	106	102	0
12	CEF-CS8-01	106	114	108	88	0
13	CEF-CS9-01	104	116	108	90	0
14	CEF-CSDUP-01	104	104	108	104	0
15	VBLK1S	94	94	104	96	0
16	V1SLCS	102	106	108	102	0
17	V1SLCSD	98	94	108	96	0
18	CEF-CS10-01	90	86	102	86	0
19	CEF-CS1A-01DL	93	87	103	93	0
20	CEF-CSDUP-01DL	90	87	103	90	0

			QC Limit
SMC 1	DBFM	= Dibromofluoromethane	(78-117)
SMC 2	DCE	= 1,2-Dichloroethane-d4	(62-124)
SMC 3	TOL	= Toluene-d8	(81-116)
SMC 4	BFB	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM II VOA-1

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	11	110	48-135
Chloromethane	10	0	11	110	60-118
Vinyl chloride	10	0	10	100	65-113
Bromomethane	10	0	11	110	73-122
Chloroethane	10	0	11	110	72-118
Trichlorofluoromethane	10	0	11	110	68-129
1,1-Dichloroethene	10	0	10	100	67-121
Acetone	10	0	9.8	98	38-161
Carbon disulfide	10	0	11	110	53-137
Methylene chloride	10	0	10	100	59-132
trans-1,2-Dichloroethene	10	0	11	110	71-124
Methyl tert-butyl ether	10	0	11	110	75-123
1,1-Dichloroethane	10	0	10	100	83-116
2-Butanone	10	0	11	110	64-139
cis-1,2-Dichloroethene	10	0	10	100	83-120
2,2-Dichloropropane	10	0	11	110	70-129
Bromochloromethane	10	0	11	110	85-124
Chloroform	10	0	9.1	91	89-118
1,1,1-Trichloroethane	10	0	11	110	81-122
1,1-Dichloropropene	10	0	10	100	76-122
Carbon tetrachloride	10	0	11	110	79-125
1,2-Dichloroethane	10	0	11	110	83-123
Benzene	10	0	11	110	81-120
Trichloroethene	10	0	10	100	77-121
1,2-Dichloropropane	10	0	11	110	81-116
Dibromomethane	10	0	11	110	86-124
Bromodichloromethane	10	0	11	110	90-114
cis-1,3-Dichloropropene	10	0	10	100	78-119
4-Methyl-2-pentanone	10	0	9.2	92	57-138
Toluene	10	0	12	120	81-121
trans-1,3-Dichloropropene	10	0	11	110	85-118

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

1,1,2-Trichloroethane	10	0	11	110	44-159
1,3-Dichloropropane	10	0	10	100	79-125
Tetrachloroethene	10	0	9.8	98	73-121
2-Hexanone	10	0	9	90	53-145
Dibromochloromethane	10	0	10	100	80-124
1,2-Dibromoethane	10	0	10	100	80-124
Chlorobenzene	10	0	10	100	82-118
1,1,1,2-Tetrachloroethane	10	0	10	100	84-121
Ethylbenzene	10	0	10	100	80-122
m,p-Xylene	20	0	22	110	70-130
o-Xylene	10	0	10	100	70-130
Xylene (Total)	30	0	32	107	81-121
Styrene	10	0	10	100	77-128
Bromoform	10	0	11	110	77-130
Isopropylbenzene	10	0	11	110	58-148
1,1,2,2-Tetrachloroethane	10	0	11	110	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	11	110	57-140
n-Propylbenzene	10	0	10	100	72-119
2-Chlorotoluene	10	0	11	110	75-120
1,3,5-Trimethylbenzene	10	0	11	110	76-116
4-Chlorotoluene	10	0	11	110	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	11	110	77-117
sec-Butylbenzene	10	0	11	110	67-117
4-Isopropyltoluene	10	0	11	110	68-118
1,3-Dichlorobenzene	10	0	10	100	80-116
1,4-Dichlorobenzene	10	0	10	100	80-114
n-Butylbenzene	10	0	10	100	58-121
1,2-Dichlorobenzene	10	0	11	110	81-116
1,2-Dibromo-3-chloropropa	10	0	10	100	71-126
1,2,4-Trichlorobenzene	10	0	9.2	92	67-114
Hexachlorobutadiene	10	0	8	80	50-111
1,2,3-Trichlorobenzene	10	0	8.7	87	64-118

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

Naphthalene	10	0	8.6	86	58-133

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	11	110	0	40	48-135
Chloromethane	10	11	110	0	40	60-118
Vinyl chloride	10	11	110	10	40	65-113
Bromomethane	10	11	110	0	40	73-122
Chloroethane	10	11	110	0	40	72-118
Trichlorofluoromethane	10	11	110	0	40	68-129
1,1-Dichloroethene	10	10	100	0	40	67-121
Acetone	10	9.2	92	6	40	38-161
Carbon disulfide	10	11	110	0	40	53-137
Methylene chloride	10	10	100	0	40	59-132
trans-1,2-Dichloroethene	10	11	110	0	40	71-124
Methyl tert-butyl ether	10	11	110	0	40	75-123
1,1-Dichloroethane	10	11	110	10	40	83-116
2-Butanone	10	12	120	9	40	64-139
cis-1,2-Dichloroethene	10	11	110	10	40	83-120
2,2-Dichloropropane	10	11	110	0	40	70-129
Bromochloromethane	10	11	110	0	40	85-124
Chloroform	10	9.3	93	2	40	89-118
1,1,1-Trichloroethane	10	11	110	0	40	81-122
1,1-Dichloropropene	10	11	110	10	40	76-122
Carbon tetrachloride	10	11	110	0	40	79-125
1,2-Dichloroethane	10	11	110	0	40	83-123
Benzene	10	12	120	9	40	81-120
Trichloroethene	10	11	110	10	40	77-121
1,2-Dichloropropane	10	11	110	0	40	81-116
Dibromomethane	10	11	110	0	40	86-124
Bromodichloromethane	10	11	110	0	40	90-114
cis-1,3-Dichloropropene	10	11	110	10	40	78-119

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

4-Methyl-2-pentanone	10	10	100	8	40	57-138
Toluene	10	12	120	0	40	81-121
trans-1,3-Dichloropropene	10	11	110	0	40	85-118
1,1,2-Trichloroethane	10	11	110	0	40	44-159
1,3-Dichloropropane	10	11	110	10	40	79-125
Tetrachloroethene	10	10	100	2	40	73-121
2-Hexanone	10	9.3	93	3	40	53-145
Dibromochloromethane	10	11	110	10	40	80-124
1,2-Dibromoethane	10	11	110	10	40	80-124
Chlorobenzene	10	11	110	10	40	82-118
1,1,1,2-Tetrachloroethane	10	10	100	0	40	84-121
Ethylbenzene	10	11	110	10	40	80-122
m,p-Xylene	20	23	115	4	40	70-130
o-Xylene	10	11	110	10	40	70-130
Xylene (Total)	30	33	110	3	40	81-121
Styrene	10	11	110	10	40	77-128
Bromoform	10	11	110	0	40	77-130
Isopropylbenzene	10	12	120	9	40	58-148
1,1,2,2-Tetrachloroethane	10	11	110	0	40	76-125
Bromobenzene	10	11	110	10	40	76-124
1,2,3-Trichloropropane	10	11	110	0	40	57-140
n-Propylbenzene	10	11	110	10	40	72-119
2-Chlorotoluene	10	11	110	0	40	75-120
1,3,5-Trimethylbenzene	10	12	120*	9	40	76-116
4-Chlorotoluene	10	11	110	0	40	78-116
tert-Butylbenzene	10	12	120*	9	40	71-115
1,2,4-Trimethylbenzene	10	12	120*	9	40	77-117
sec-Butylbenzene	10	12	120*	9	40	67-117
4-Isopropyltoluene	10	11	110	0	40	68-118
1,3-Dichlorobenzene	10	11	110	10	40	80-116
1,4-Dichlorobenzene	10	10	100	0	40	80-114
n-Butylbenzene	10	10	100	0	40	58-121
1,2-Dichlorobenzene	10	11	110	0	40	81-116
1,2-Dibromo-3-chloropropa	10	10	100	0	40	71-126

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

1,2,4-Trichlorobenzene	10	9.8	98	6	40	67-114
Hexachlorobutadiene	10	8.6	86	7	40	50-111
1,2,3-Trichlorobenzene	10	9.5	95	9	40	64-118
Naphthalene	10	9.7	97	12	40	58-133

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

* Values outside of QC limits

RPD: 0 out of 66 outside limits

Spike Recovery: 4 out of 132 outside limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: VIRLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	11	110	48-135
Chloromethane	10	0	11	110	60-118
Vinyl chloride	10	0	11	110	65-113
Bromomethane	10	0	11	110	73-122
Chloroethane	10	0	11	110	72-118
Trichlorofluoromethane	10	0	12	120	68-129
1,1-Dichloroethene	10	0	11	110	67-121
Acetone	10	0	15	150	38-161
Carbon disulfide	10	0	11	110	53-137
Methylene chloride	10	0	10	100	59-132
trans-1,2-Dichloroethene	10	0	11	110	71-124
Methyl tert-butyl ether	10	0	10	100	75-123
1,1-Dichloroethane	10	0	11	110	83-116
2-Butanone	10	0	12	120	64-139
cis-1,2-Dichloroethene	10	0	11	110	83-120
2,2-Dichloropropane	10	0	12	120	70-129
Bromochloromethane	10	0	11	110	85-124
Chloroform	10	0	9.8	98	89-118
1,1,1-Trichloroethane	10	0	11	110	81-122
1,1-Dichloropropene	10	0	11	110	76-122
Carbon tetrachloride	10	0	11	110	79-125
1,2-Dichloroethane	10	0	11	110	83-123
Benzene	10	0	12	120	81-120
Trichloroethene	10	0	11	110	77-121
1,2-Dichloropropane	10	0	11	110	81-116
Dibromomethane	10	0	10	100	86-124
Bromodichloromethane	10	0	11	110	90-114
cis-1,3-Dichloropropene	10	0	11	110	78-119
4-Methyl-2-pentanone	10	0	9.6	96	57-138
Toluene	10	0	12	120	81-121
trans-1,3-Dichloropropene	10	0	11	110	85-118
1,1,2-Trichloroethane	10	0	10	100	44-159
1,3-Dichloropropane	10	0	11	110	79-125
Tetrachloroethene	10	0	11	110	73-121
2-Hexanone	10	0	11	110	53-145

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: VIRLCS Level: (low/med) LOW

Dibromochloromethane	10	0	11	110	80-124
1,2-Dibromoethane	10	0	11	110	80-124
Chlorobenzene	10	0	11	110	82-118
1,1,1,2-Tetrachloroethane	10	0	11	110	84-121
Ethylbenzene	10	0	11	110	80-122
m,p-Xylene	20	0	24	120	70-130
o-Xylene	10	0	11	110	70-130
Xylene (Total)	30	0	35	117	81-121
Styrene	10	0	12	120	77-128
Bromoform	10	0	10	100	77-130
Isopropylbenzene	10	0	12	120	58-148
1,1,2,2-Tetrachloroethane	10	0	10	100	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	11	110	57-140
n-Propylbenzene	10	0	11	110	72-119
2-Chlorotoluene	10	0	11	110	75-120
1,3,5-Trimethylbenzene	10	0	12	120*	76-116
4-Chlorotoluene	10	0	11	110	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	12	120*	77-117
sec-Butylbenzene	10	0	12	120*	67-117
4-Isopropyltoluene	10	0	12	120*	68-118
1,3-Dichlorobenzene	10	0	11	110	80-116
1,4-Dichlorobenzene	10	0	10	100	80-114
n-Butylbenzene	10	0	11	110	58-121
1,2-Dichlorobenzene	10	0	11	110	81-116
1,2-Dibromo-3-chloropropa	10	0	9.8	98	71-126
1,2,4-Trichlorobenzene	10	0	10	100	67-114
Hexachlorobutadiene	10	0	9.1	91	50-111
1,2,3-Trichlorobenzene	10	0	9.6	96	64-118
Naphthalene	10	0	9.2	92	58-133

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0	9.7	97	48-135
Chloromethane	10	0	10	100	60-118
Vinyl chloride	10	0	9.7	97	65-113
Bromomethane	10	0	10	100	73-122
Chloroethane	10	0	9.9	99	72-118
Trichlorofluoromethane	10	0	11	110	68-129
1,1-Dichloroethene	10	0	10	100	67-121
Acetone	10	0	11	110	38-161
Carbon disulfide	10	0	10	100	53-137
Methylene chloride	10	0	9.2	92	59-132
trans-1,2-Dichloroethene	10	0	10	100	71-124
Methyl tert-butyl ether	10	0	10	100	75-123
1,1-Dichloroethane	10	0	9.9	99	83-116
2-Butanone	10	0	10	100	64-139
cis-1,2-Dichloroethene	10	0	10	100	83-120
2,2-Dichloropropane	10	0	11	110	70-129
Bromochloromethane	10	0	10	100	85-124
Chloroform	10	0	8.8	88*	89-118
1,1,1-Trichloroethane	10	0	10	100	81-122
1,1-Dichloropropene	10	0	11	110	76-122
Carbon tetrachloride	10	0	10	100	79-125
1,2-Dichloroethane	10	0	9.5	95	83-123
Benzene	10	0	11	110	81-120
Trichloroethene	10	0	10	100	77-121
1,2-Dichloropropane	10	0	9.9	99	81-116
Dibromomethane	10	0	10	100	86-124
Bromodichloromethane	10	0	9.9	99	90-114
cis-1,3-Dichloropropene	10	0	10	100	78-119
4-Methyl-2-pentanone	10	0	9.8	98	57-138
Toluene	10	0	11	110	81-121
trans-1,3-Dichloropropene	10	0	10	100	85-118
1,1,2-Trichloroethane	10	0	10	100	44-159
1,3-Dichloropropane	10	0	10	100	79-125
Tetrachloroethene	10	0	9.9	99	73-121
2-Hexanone	10	0	10	100	53-145

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCS Level: (low/med) LOW

Dibromochloromethane	10	0	10	100	80-124
1,2-Dibromoethane	10	0	10	100	80-124
Chlorobenzene	10	0	10	100	82-118
1,1,1,2-Tetrachloroethane	10	0	10	100	84-121
Ethylbenzene	10	0	11	110	80-122
m,p-Xylene	20	0	23	115	70-130
o-Xylene	10	0	11	110	70-130
Xylene (Total)	30	0	34	113	81-121
Styrene	10	0	11	110	77-128
Bromoform	10	0	10	100	77-130
Isopropylbenzene	10	0	11	110	58-148
1,1,2,2-Tetrachloroethane	10	0	10	100	76-125
Bromobenzene	10	0	10	100	76-124
1,2,3-Trichloropropane	10	0	9.9	99	57-140
n-Propylbenzene	10	0	11	110	72-119
2-Chlorotoluene	10	0	10	100	75-120
1,3,5-Trimethylbenzene	10	0	11	110	76-116
4-Chlorotoluene	10	0	10	100	78-116
tert-Butylbenzene	10	0	11	110	71-115
1,2,4-Trimethylbenzene	10	0	11	110	77-117
sec-Butylbenzene	10	0	12	120*	67-117
4-Isopropyltoluene	10	0	11	110	68-118
1,3-Dichlorobenzene	10	0	10	100	80-116
1,4-Dichlorobenzene	10	0	9.8	98	80-114
n-Butylbenzene	10	0	11	110	58-121
1,2-Dichlorobenzene	10	0	10	100	81-116
1,2-Dibromo-3-chloropropa	10	0	10	100	71-126
1,2,4-Trichlorobenzene	10	0	10	100	67-114
Hexachlorobutadiene	10	0	9	90	50-111
1,2,3-Trichlorobenzene	10	0	9.5	95	64-118
Naphthalene	10	0	9.4	94	58-133

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCSD Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	LCSD CONCENTRATION (µg/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	9.5	95	2	40	48-135
Chloromethane	10	9.7	97	3	40	60-118
Vinyl chloride	10	9.7	97	0	40	65-113
Bromomethane	10	10	100	0	40	73-122
Chloroethane	10	9.8	98	1	40	72-118
Trichlorofluoromethane	10	11	110	0	40	68-129
1,1-Dichloroethene	10	9.9	99	1	40	67-121
Acetone	10	9.8	98	12	40	38-161
Carbon disulfide	10	9.9	99	1	40	53-137
Methylene chloride	10	8.8	88	4	40	59-132
trans-1,2-Dichloroethene	10	10	100	0	40	71-124
Methyl tert-butyl ether	10	9.2	92	8	40	75-123
1,1-Dichloroethane	10	9.6	96	3	40	83-116
2-Butanone	10	9.4	94	6	40	64-139
cis-1,2-Dichloroethene	10	9.7	97	3	40	83-120
2,2-Dichloropropane	10	10	100	10	40	70-129
Bromochloromethane	10	9.1	91	9	40	85-124
Chloroform	10	8.4	84*	5	40	89-118
1,1,1-Trichloroethane	10	10	100	0	40	81-122
1,1-Dichloropropene	10	10	100	10	40	76-122
Carbon tetrachloride	10	10	100	0	40	79-125
1,2-Dichloroethane	10	9	90	5	40	83-123
Benzene	10	10	100	10	40	81-120
Trichloroethene	10	9.8	98	2	40	77-121
1,2-Dichloropropane	10	9.2	92	7	40	81-116
Dibromomethane	10	9.3	93	7	40	86-124
Bromodichloromethane	10	9.3	93	6	40	90-114
cis-1,3-Dichloropropene	10	9.7	97	3	40	78-119
4-Methyl-2-pentanone	10	8.6	86	13	40	57-138
Toluene	10	11	110	0	40	81-121
trans-1,3-Dichloropropene	10	9.7	97	3	40	85-118
1,1,2-Trichloroethane	10	9.5	95	5	40	44-159
1,3-Dichloropropane	10	9.5	95	5	40	79-125
Tetrachloroethene	10	10	100	1	40	73-121

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

* Values outside of QC limits

COMMENTS:

3A

WATER VOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: V1SLCSD Level: (low/med) LOW

2-Hexanone	10	8.2	82	20	40	53-145
Dibromochloromethane	10	9.5	95	5	40	80-124
1,2-Dibromoethane	10	9.2	92	8	40	80-124
Chlorobenzene	10	9.9	99	1	40	82-118
1,1,1,2-Tetrachloroethane	10	9.6	96	4	40	84-121
Ethylbenzene	10	11	110	0	40	80-122
m,p-Xylene	20	22	110	4	40	70-130
o-Xylene	10	11	110	0	40	70-130
Xylene (Total)	30	33	110	3	40	81-121
Styrene	10	11	110	0	40	77-128
Bromoform	10	9.3	93	7	40	77-130
Isopropylbenzene	10	11	110	0	40	58-148
1,1,2,2-Tetrachloroethane	10	9.3	93	7	40	76-125
Bromobenzene	10	9.3	93	7	40	76-124
1,2,3-Trichloropropane	10	9.1	91	8	40	57-140
n-Propylbenzene	10	10	100	10	40	72-119
2-Chlorotoluene	10	10	100	0	40	75-120
1,3,5-Trimethylbenzene	10	11	110	0	40	76-116
4-Chlorotoluene	10	9.9	99	1	40	78-116
tert-Butylbenzene	10	11	110	0	40	71-115
1,2,4-Trimethylbenzene	10	11	110	0	40	77-117
sec-Butylbenzene	10	12	120*	0	40	67-117
4-Isopropyltoluene	10	11	110	0	40	68-118
1,3-Dichlorobenzene	10	9.9	99	1	40	80-116
1,4-Dichlorobenzene	10	9.6	96	2	40	80-114
n-Butylbenzene	10	11	110	0	40	58-121
1,2-Dichlorobenzene	10	9.7	97	3	40	81-116
1,2-Dibromo-3-chloropropa	10	8.3	83	19	40	71-126
1,2,4-Trichlorobenzene	10	9.5	95	5	40	67-114
Hexachlorobutadiene	10	9	90	0	40	50-111
1,2,3-Trichlorobenzene	10	8.9	89	7	40	64-118
Naphthalene	10	8.5	85	10	40	58-133

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

* Values outside of QC limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16639

Level: (low/med) LOW Lab File ID: V1G5602.D

TestCode: SW8260B_25_W Date Extracted: 01/27/05 Time: 10:14

Instrument ID: V1 Date Analyzed: 01/27/05 Time: 10:48

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VIRLCS	LCS-16639	V1G5603.D	11:28
02	CEF-CS5-01	D0058-01A	V1G5605.D	13:34
03	CEF-CS4-01	D0058-02A	V1G5606.D	14:08
04	CEF-CS7-01	D0058-03A	V1G5607.D	14:40
05	CEF-CS3-01	D0058-04A	V1G5608.D	15:12
06	CEF-CS6-01	D0058-05A	V1G5609.D	15:45
07	CEF-CS2-01	D0058-06A	V1G5610.D	16:17
08	CEF-CS2-01MS	D0058-06AMS	V1G5611.D	16:49
09	CEF-CS2-01MSD	D0058-06AMSD	V1G5612.D	17:21
10	CEF-CS1A-01	D0058-07A	V1G5613.D	17:53
11	CEF-CS8-01	D0058-09A	V1G5615.D	18:57
12	CEF-CS9-01	D0058-10A	V1G5616.D	19:29
13	CEF-CSDUP-01	D0058-11A	V1G5617.D	20:01

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16653

Level: (low/med) LOW Lab File ID: V1G5632.D

TestCode: SW8260B_25_W Date Extracted: 01/28/05 Time: 10:50

Instrument ID: V1 Date Analyzed: 01/28/05 Time: 11:35

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1SLCS	LCS-16653	V1G5633.D	12:07
02	V1SLCSD	LCSD-16653	V1G5634.D	12:39
03	CEF-CS10-01	D0058-08A	V1G5642.D	16:57
04	CEF-CS1A-01DL	D0058-07ADL	V1G5643.D	17:29
05	CEF-CSDUP-01DL	D0058-11ADL	V1G5644.D	18:02

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5580.D BFB Injection Date: 01/26/05

Instrument ID: V1 BFB Injection Time: 15:27

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	48.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	72.0
175	5.0 - 9.0% of mass 174	6.0 (8.4)1
176	95.0 - 101.0% of mass 174	71.2 (99.0)1
177	5.0 - 9.0% of mass 176	4.7 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101P	VSTD0101P	V1G5581.D	01/26/05	15:58
02	VSTD0.51P	VSTD0.51P	V1G5582.D	01/26/05	16:29
03	VSTD0401P	VSTD0401P	V1G5583.D	01/26/05	17:00
04	VSTD0201P	VSTD0201P	V1G5584.D	01/26/05	17:31
05	VSTD0041P	VSTD0041P	V1G5585.D	01/26/05	18:03
06	VSTD0801P	VSTD0801P	V1G5586.D	01/26/05	18:34

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5600.D BFB Injection Date: 01/27/05

Instrument ID: V1 BFB Injection Time: 8:59

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	48.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.5
175	5.0 - 9.0% of mass 174	6.0 (7.8)1
176	95.0 - 101.0% of mass 174	74.3 (95.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101R	VSTD0101R	V1G5601.D	01/27/05	9:29
02	VBLK1R	MB-16639	V1G5602.D	01/27/05	10:48
03	VIRLCS	LCS-16639	V1G5603.D	01/27/05	11:28
04	CEF-CS5-01	D0058-01A	V1G5605.D	01/27/05	13:34
05	CEF-CS4-01	D0058-02A	V1G5606.D	01/27/05	14:08
06	CEF-CS7-01	D0058-03A	V1G5607.D	01/27/05	14:40
07	CEF-CS3-01	D0058-04A	V1G5608.D	01/27/05	15:12
08	CEF-CS6-01	D0058-05A	V1G5609.D	01/27/05	15:45
09	CEF-CS2-01	D0058-06A	V1G5610.D	01/27/05	16:17
10	CEF-CS2-01MS	D0058-06AMS	V1G5611.D	01/27/05	16:49
11	CEF-CS2-01MSD	D0058-06AMSD	V1G5612.D	01/27/05	17:21
12	CEF-CS1A-01	D0058-07A	V1G5613.D	01/27/05	17:53
13	CEF-CS8-01	D0058-09A	V1G5615.D	01/27/05	18:57
14	CEF-CS9-01	D0058-10A	V1G5616.D	01/27/05	19:29
15	CEF-CSDUP-01	D0058-11A	V1G5617.D	01/27/05	20:01

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID: V1G5630.D BFB Injection Date: 01/28/05

Instrument ID: V1 BFB Injection Time: 9:05

GC Column: DB-624 ID: 0.25 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	49.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	76.3
175	5.0 - 9.0% of mass 174	5.9 (7.7)1
176	95.0 - 101.0% of mass 174	74.0 (96.9)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0101S	VSTD0101S	V1G5631.D	01/28/05	10:18
02	VBLK1S	MB-16653	V1G5632.D	01/28/05	11:35
03	V1SLCS	LCS-16653	V1G5633.D	01/28/05	12:07
04	V1SLCSD	LCSD-16653	V1G5634.D	01/28/05	12:39
05	CEF-CS10-01	D0058-08A	V1G5642.D	01/28/05	16:57
06	CEF-CS1A-01DL	D0058-07ADL	V1G5643.D	01/28/05	17:29
07	CEF-CSDUP-01DL	D0058-11ADL	V1G5644.D	01/28/05	18:02

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID (Standard): V1G5601.D Date Analyzed: 01/27/05

EPA Sample No.(VSTD050##): VSTD0101R Time Analyzed: 9:29

Instrument ID: V1 Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	2996812	6.85965	1720877	10.56605	618222	13.37112
	UPPER LIMIT	5993624	7.35965	3441754	11.06605	1236444	13.87112
	LOWER LIMIT	1498406	6.35965	860439	10.06605	309111	12.87112
	EPA SAMPLE						
01	VBLK1R	2865124	6.86	1531616	10.56	479757	13.37
02	VIRLCS	2590482	6.85	1457345	10.56	565855	13.37
03	CEF-CS5-01	2493542	6.85	1370163	10.56	454341	13.37
04	CEF-CS4-01	2268395	6.85	1419458	10.55	459027	13.37
05	CEF-CS7-01	2546117	6.84	1405046	10.56	446464	13.36
06	CEF-CS3-01	2268975	6.85	1380871	10.55	419710	13.37
07	CEF-CS6-01	2516185	6.85	1360112	10.56	416156	13.37
08	CEF-CS2-01	2465778	6.85	1362366	10.56	411364	13.36
09	CEF-CS2-01MS	2641250	6.84	1543055	10.55	563120	13.36
10	CEF-CS2-01MSD	2482907	6.83	1430064	10.55	523061	13.36
11	CEF-CS1A-01	2490690	6.83	1449529	10.55	640358	13.36
12	CEF-CS8-01	2263174	6.82	1340785	10.54	431941	13.35
13	CEF-CS9-01	2229507	6.82	1292222	10.54	419090	13.35
14	CEF-CSDUP-01	2243919	6.82	1372236	10.53	601136	13.35

IS1 = Fluorobenzene
IS2 = Chlorobenzene-d5
IS3 = 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.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Lab File ID (Standard): V1G5631.D Date Analyzed: 01/28/05

EPA Sample No.(VSTD050##): VSTD0101S Time Analyzed: 10:18

Instrument ID: V1 Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	2624582	6.81013	1430907	10.5243	531406	13.33713
	UPPER LIMIT	5249164	7.31013	2861814	11.0243	1062812	13.83713
	LOWER LIMIT	1312291	6.31013	715454	10.0243	265703	12.83713
	EPA SAMPLE						
01	VBLK1S	2387469	6.82	1298985	10.53	427046	13.35
02	V1SLCS	2507614	6.82	1400274	10.52	541408	13.34
03	V1SLCSD	2549851	6.81	1404392	10.53	535675	13.34
04	CEF-CS10-01	2186941	6.81	1072461	10.53	339730	13.35
05	CEF-CS1A-01DL	2151248	6.82	1119472	10.53	421532	13.34
06	CEF-CSDUP-01DL	2123653	6.82	1093273	10.52	407753	13.34

IS1 = Fluorobenzene
IS2 = Chlorobenzene-d5
IS3 = 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.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-01A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5605.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 10:30

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 13:34

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	**Chloroform**	**0.49**	**I**	**0.19**	**0.50**
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-01A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5605.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 10:30

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 13:34

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

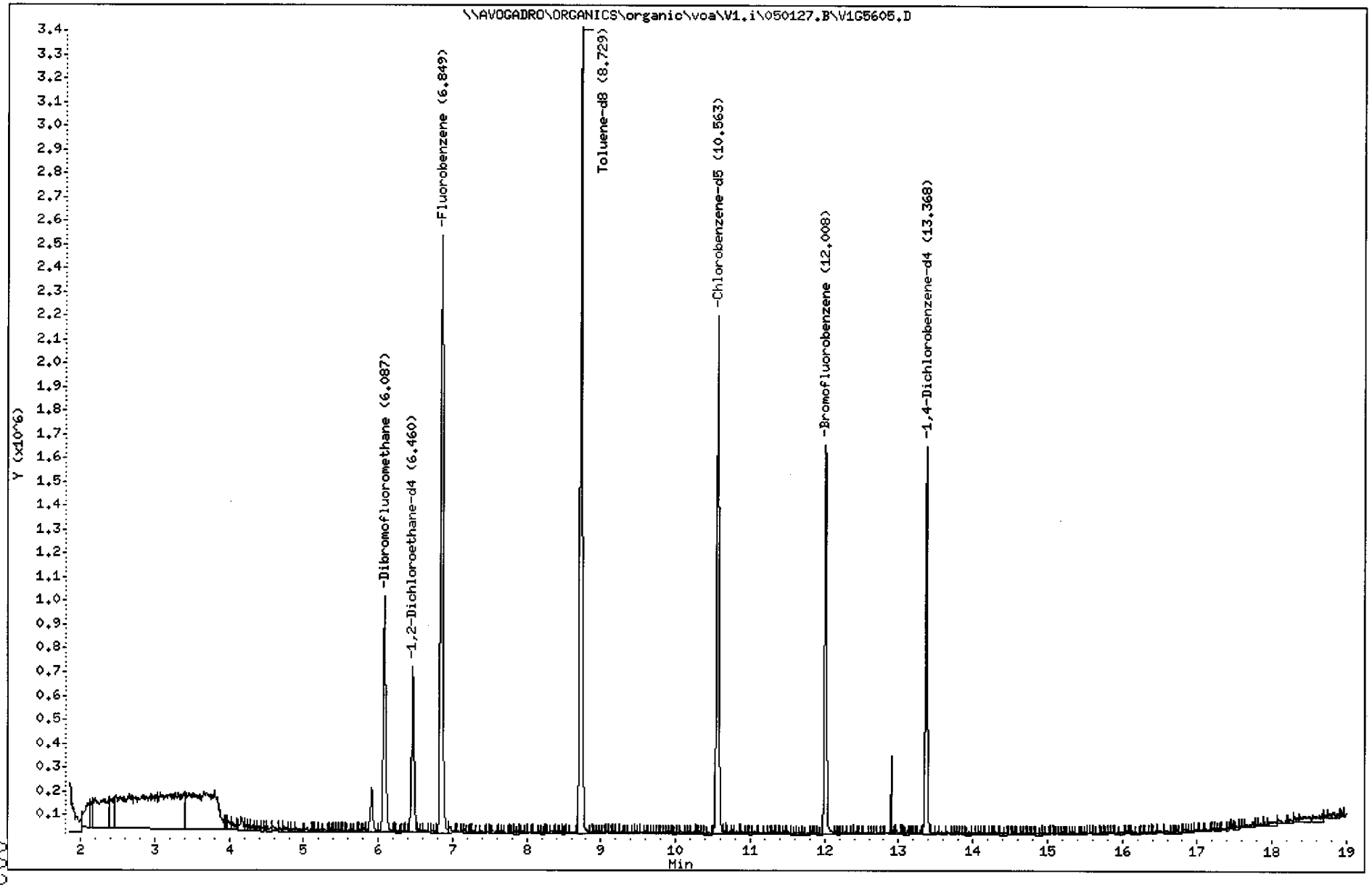
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5605.D
Date : 27-JAN-2005 13:34
Client ID: CEF-CS5-01
Sample Info: ,D0058-01A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5605.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5605.D
Lab Smp Id: D0058-01A Client Smp ID: CEF-CS5-01
Inj Date : 27-JAN-2005 13:34
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-01A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
17 Chloroform	83	5.916	5.920	(0.864)	158229	0.48875	0.5
$ 18 Dibromofluoromethane	113	6.087	6.090	(0.889)	757976	5.14542	5
$ 23 1,2-Dichloroethane-d4	102	6.460	6.463	(0.943)	115117	5.55973	6
* 26 Fluorobenzene	96	6.849	6.860	(1.000)	2493542	5.00000	
$ 33 Toluene-d8	98	8.729	8.732	(1.275)	2569629	5.20520	5
* 43 Chlorobenzene-d5	117	10.563	10.566	(1.000)	1370163	5.00000	
$ 52 Bromofluorobenzene	95	12.008	12.011	(1.137)	674601	4.66864	5
* 66 1,4-Dichlorobenzene-d4	152	13.368	13.371	(1.000)	454341	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5605.D

Date : 27-JAN-2005 13:34

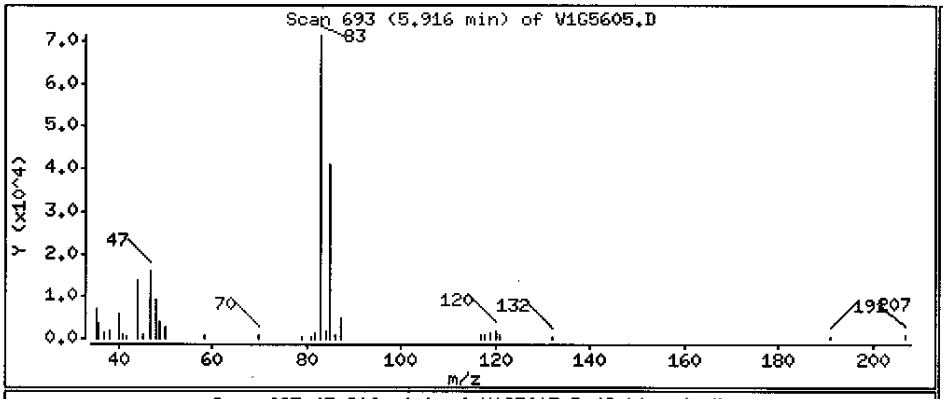
Client ID: CEF-CS5-01 | Instrument: v1.i

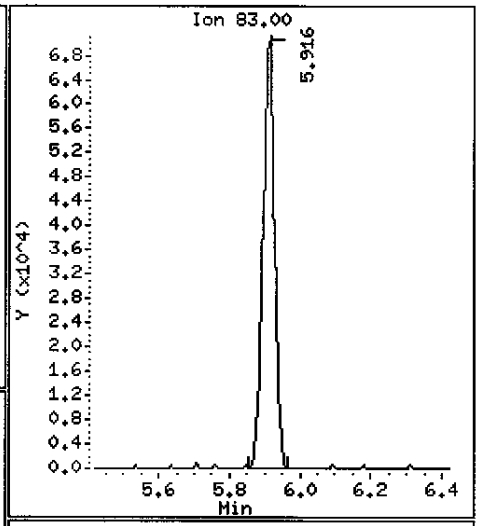
Sample Info: ,D0058-01A,,16639

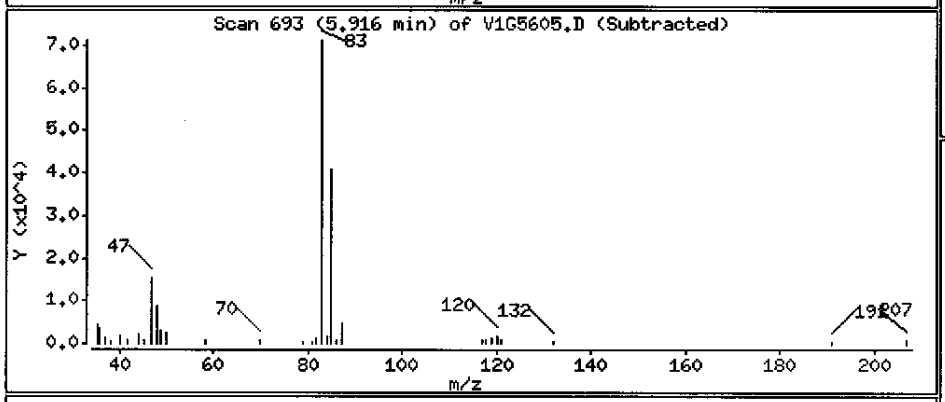
Purge Volume: 25.0 | Operator: MS SRC: LIMS

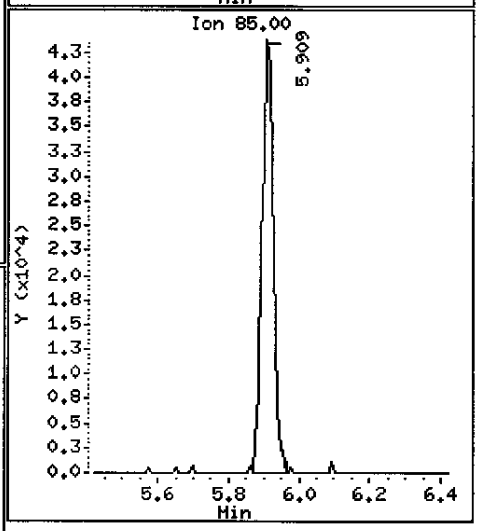
Column phase: DB-624 | Column diameter: 0.25

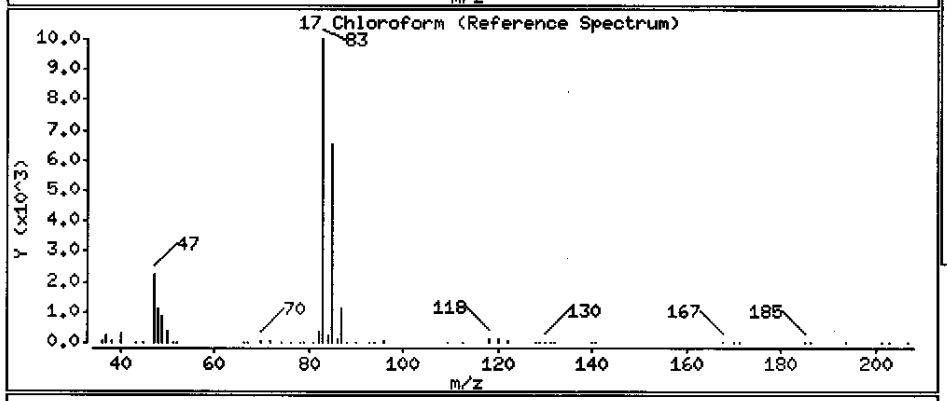
17 Chloroform | Concentration: 0.5 ug/L

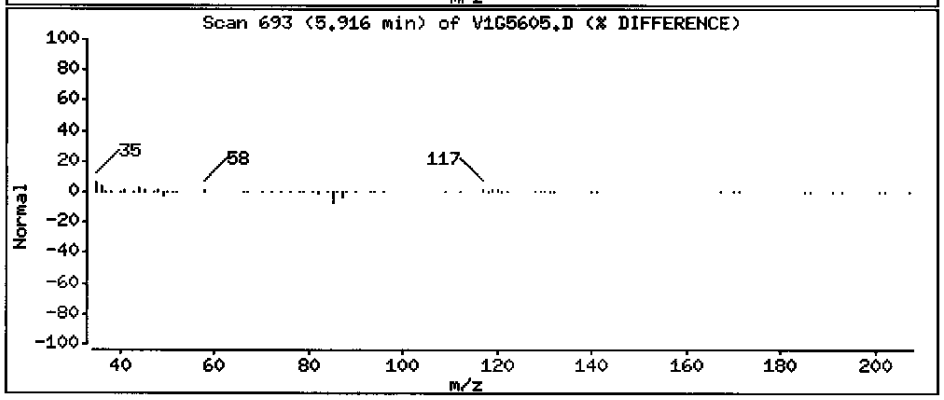












1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5606.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 11:20

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:08

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5606.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 11:20

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:08

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

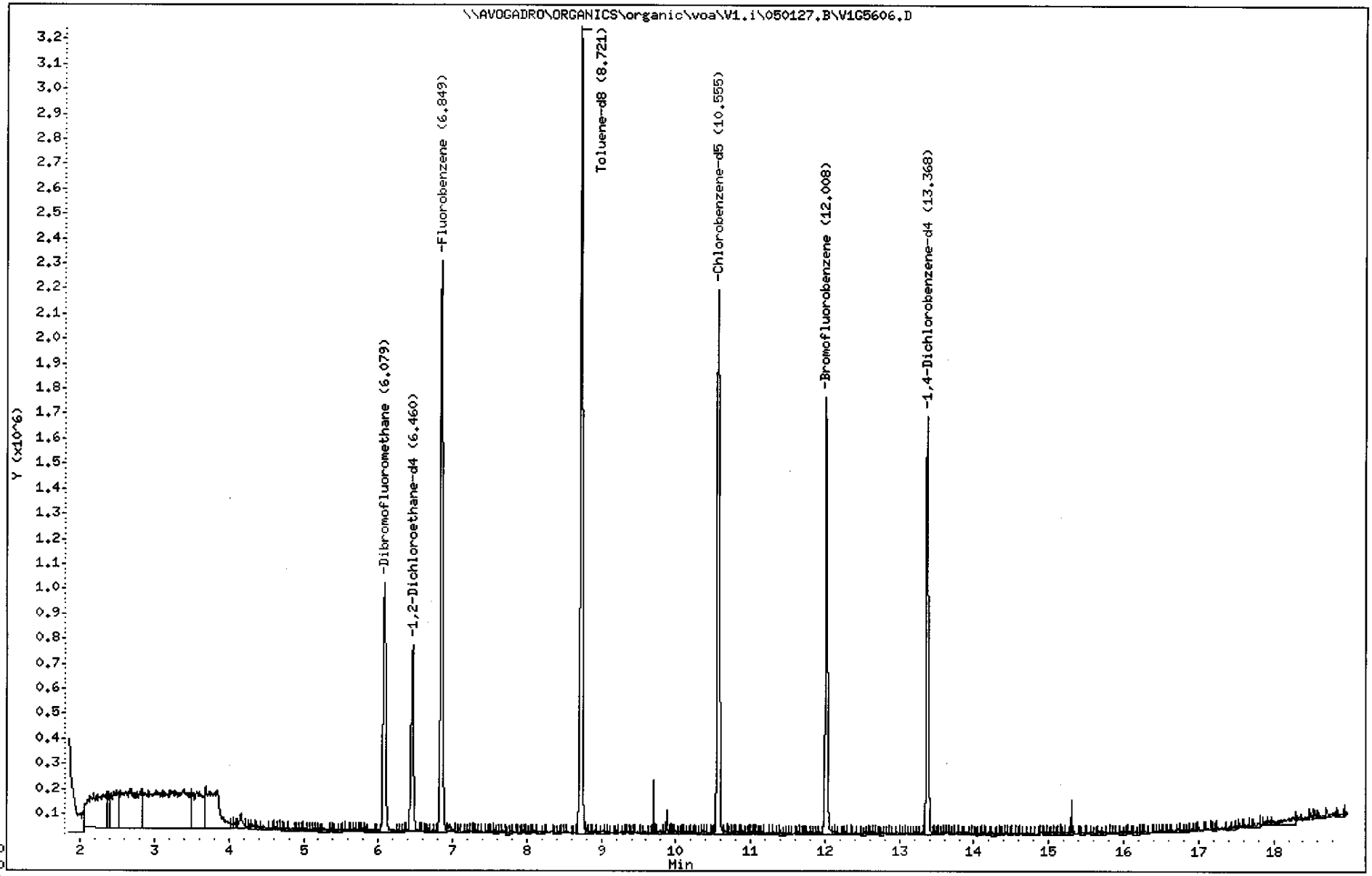
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5606.D
Date : 27-JAN-2005 14:08
Client ID: CEF-CS4-01
Sample Info: ,D0058-02A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0038

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5606.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5606.D
Lab Smp Id: D0058-02A Client Smp ID: CEF-CS4-01
Inj Date : 27-JAN-2005 14:08
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-02A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.079	6.090	(0.888)	732085	5.46292	5
$ 23 1,2-Dichloroethane-d4	102	6.452	6.463	(0.942)	112272	5.96051	6
* 26 Fluorobenzene	96	6.849	6.860	(1.000)	2268395	5.00000	
$ 33 Toluene-d8	98	8.721	8.732	(1.273)	2446423	5.44749	5
* 43 Chlorobenzene-d5	117	10.555	10.566	(1.000)	1419458	5.00000	
$ 52 Bromofluorobenzene	95	12.008	12.011	(1.138)	673698	4.50047	4
* 66 1,4-Dichlorobenzene-d4	152	13.368	13.371	(1.000)	459027	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5607.D

Level: (low/med) LOW | Date Collected: 01/18/05 | Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 14:40

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5607.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 14:40

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

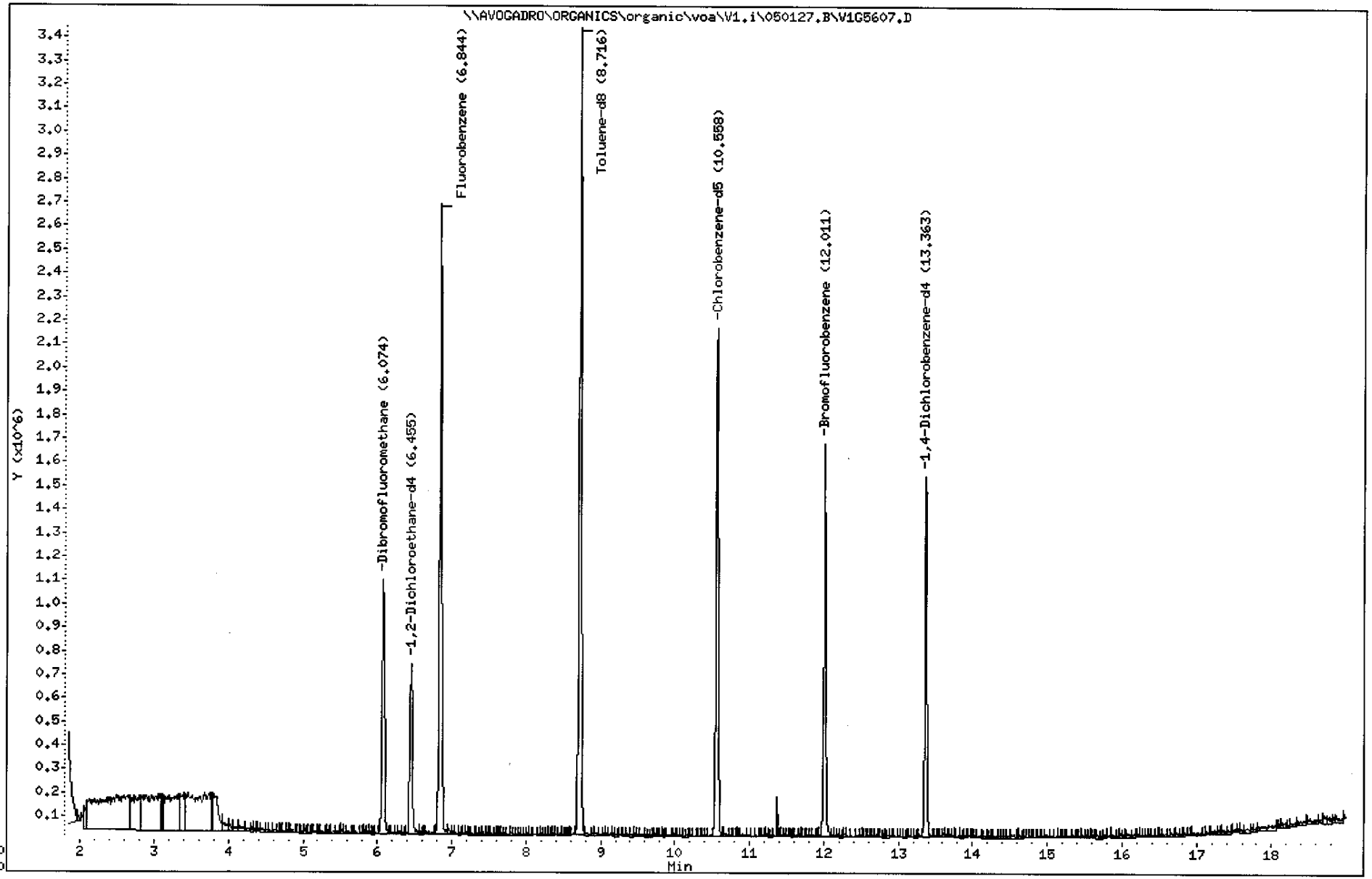
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5607.D
Date : 27-JAN-2005 14:40
Client ID: CEF-CS7-01
Sample Info: ,D0058-03A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5607.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5607.D
Lab Smp Id: D0058-03A Client Smp ID: CEF-CS7-01
Inj Date : 27-JAN-2005 14:40
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-03A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.074	6.090	(0.888)	754221	5.01420	5
$ 23 1,2-Dichloroethane-d4	102	6.455	6.463	(0.943)	114855	5.43253	5
* 26 Fluorobenzene	96	6.844	6.860	(1.000)	2546117	5.00000	
$ 33 Toluene-d8	98	8.716	8.732	(1.274)	2556236	5.07115	5
* 43 Chlorobenzene-d5	117	10.558	10.566	(1.000)	1405046	5.00000	
$ 52 Bromofluorobenzene	95	12.011	12.011	(1.138)	654771	4.41890	4
* 66 1,4-Dichlorobenzene-d4	152	13.363	13.371	(1.000)	446464	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-04A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5608.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 14:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:12

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-04A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5608.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 14:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:12

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

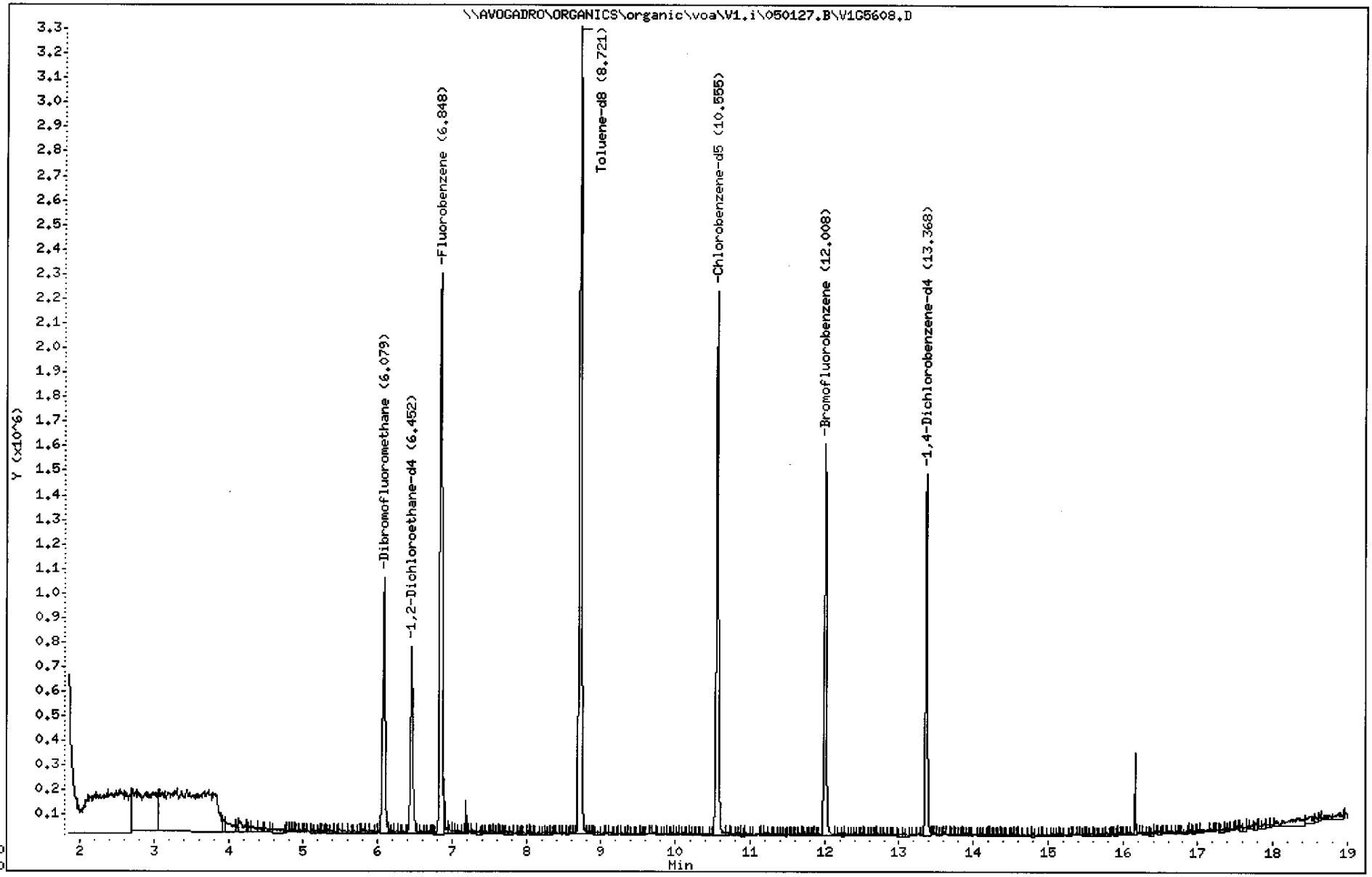
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5608.D
Date : 27-JAN-2005 15:12
Client ID: CEF-CS3-01
Sample Info: ,D0058-04A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5608.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5608.D
Lab Smp Id: D0058-04A Client Smp ID: CEF-CS3-01
Inj Date : 27-JAN-2005 15:12
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-04A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.079	6.090	(0.888)	747020	5.57294	6
$ 23 1,2-Dichloroethane-d4	102	6.460	6.463	(0.943)	114261	6.06456	6
* 26 Fluorobenzene	96	6.848	6.860	(1.000)	2268975	5.00000	
$ 33 Toluene-d8	98	8.721	8.732	(1.273)	2460226	5.47683	5
* 43 Chlorobenzene-d5	117	10.555	10.566	(1.000)	1380871	5.00000	
$ 52 Bromofluorobenzene	95	12.008	12.011	(1.138)	613469	4.21264	4
* 66 1,4-Dichlorobenzene-d4	152	13.368	13.371	(1.000)	419710	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB
2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-05A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5609.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 10:42

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:45

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	**Chloroform**	**1.2**		**0.19**	**0.50**
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-05A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5609.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 10:42

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 15:45

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

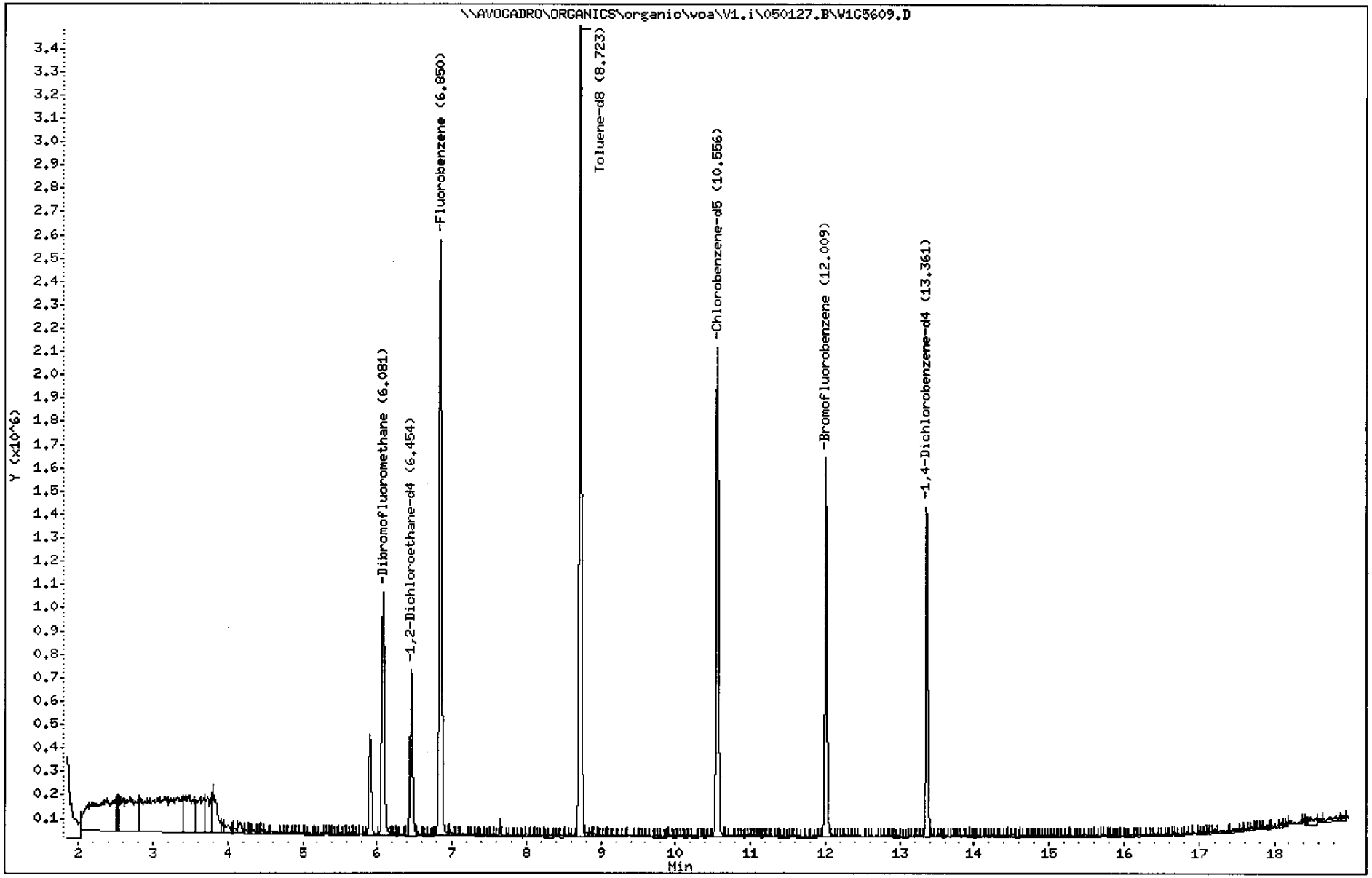
CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5609.D
Date : 27-JAN-2005 15:45
Client ID: CEF-CS6-01
Sample Info: ,D0058-05A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0050

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5609.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5609.D
Lab Smp Id: D0058-05A Client Smp ID: CEF-CS6-01
Inj Date : 27-JAN-2005 15:45
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-05A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
17 Chloroform	83	5.910	5.920	(0.863)	401090	1.22778	1
$ 18 Dibromofluoromethane	113	6.081	6.090	(0.888)	768367	5.16902	5
$ 23 1,2-Dichloroethane-d4	102	6.454	6.463	(0.942)	113603	5.43723	5
* 26 Fluorobenzene	96	6.850	6.860	(1.000)	2516185	5.00000	
$ 33 Toluene-d8	98	8.723	8.732	(1.273)	2521313	5.06137	5
* 43 Chlorobenzene-d5	117	10.556	10.566	(1.000)	1360112	5.00000	
$ 52 Bromofluorobenzene	95	12.009	12.011	(1.138)	620362	4.32500	4
* 66 1,4-Dichlorobenzene-d4	152	13.369	13.371	(1.000)	416156	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB
2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5609.D

Date : 27-JAN-2005 15:45

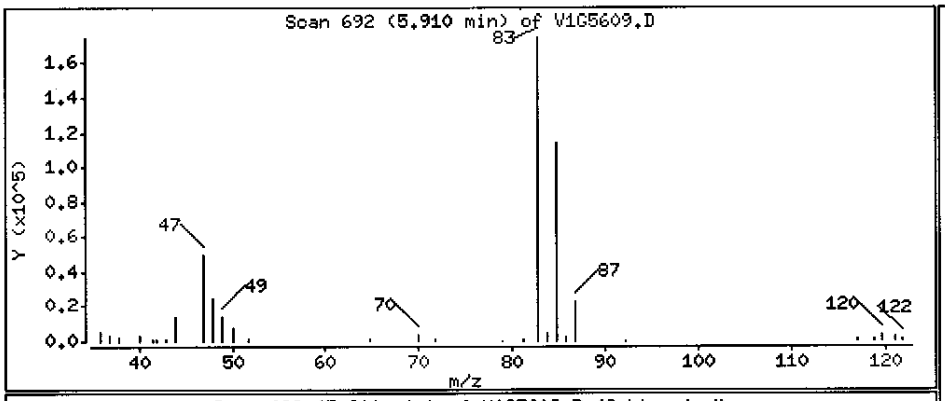
Client ID: CEF-CS6-01 Instrument: v1.i

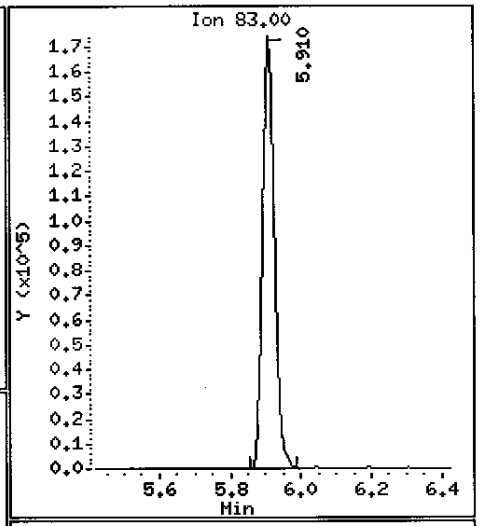
Sample Info: ,D0058-05A,,16639

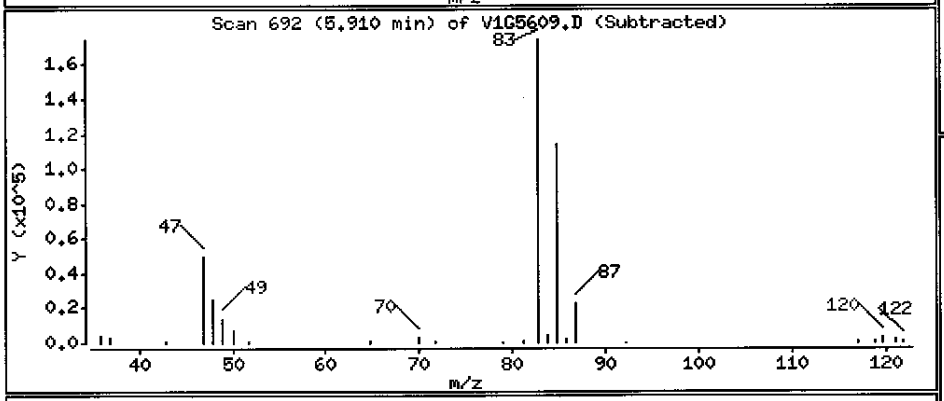
Purge Volume: 25.0 Operator: MS SRC: LIMS

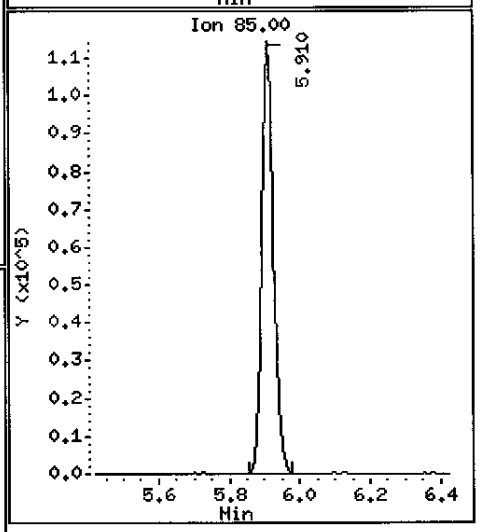
Column phase: DB-624 Column diameter: 0.25

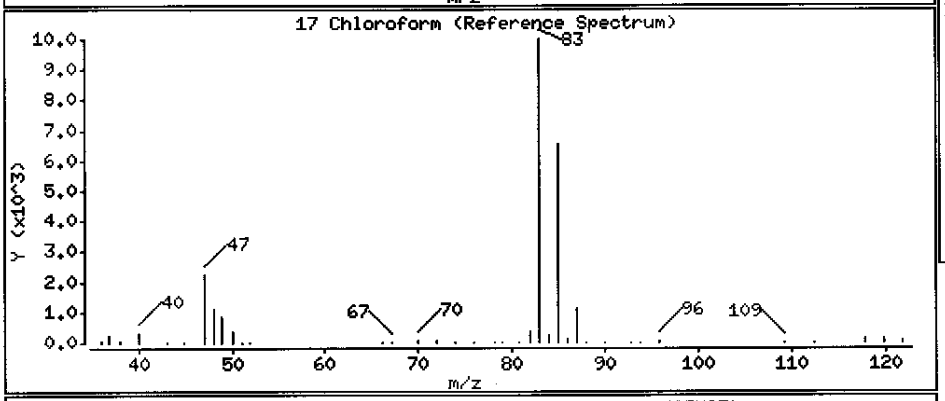
17 Chloroform Concentration: 1 ug/L

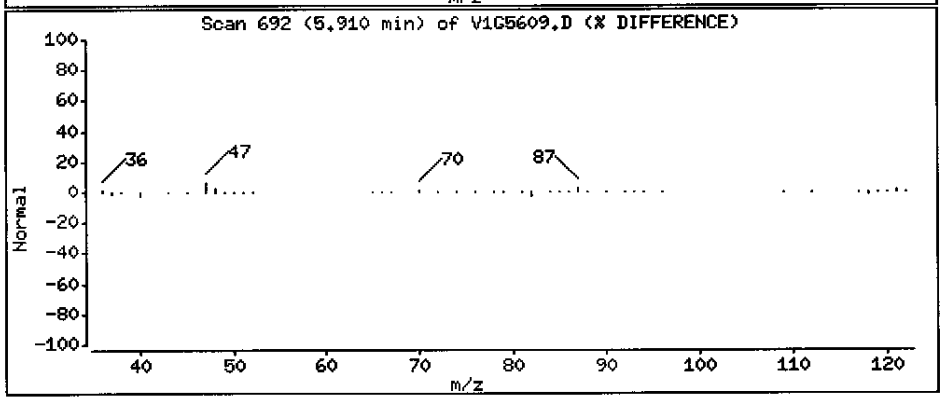












1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5610.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 16:17

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5610.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 16:17

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

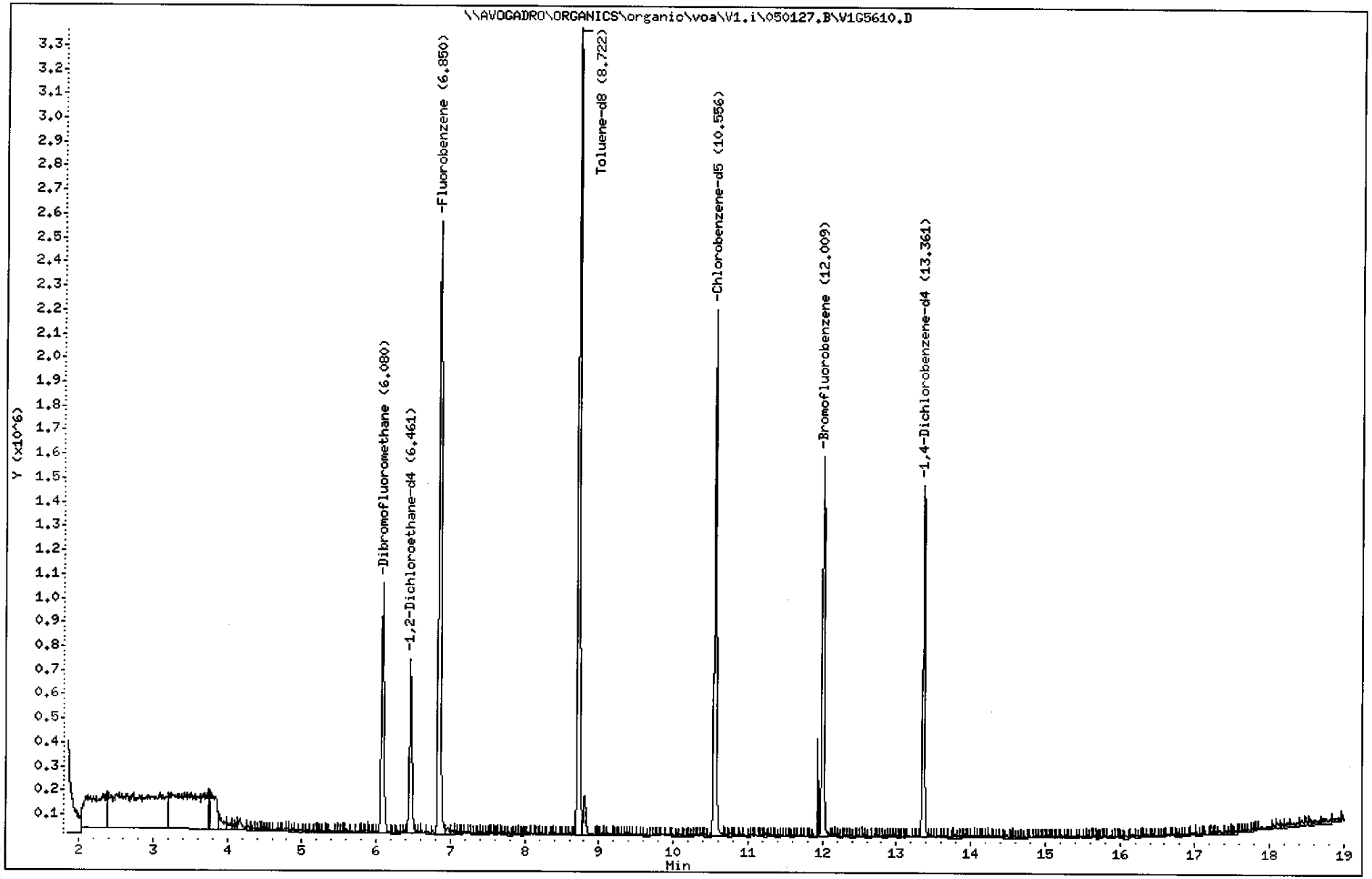
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5610.D
Date : 27-JAN-2005 16:17
Client ID: CEF-CS2-01
Sample Info: ,D0058-06A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5610.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5610.D
Lab Smp Id: D0058-06A Client Smp ID: CEF-CS2-01
Inj Date : 27-JAN-2005 16:17
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-06A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.080	6.090	(0.888)	769457	5.28217	5
$ 23 1,2-Dichloroethane-d4	102	6.461	6.463	(0.943)	110883	5.41554	5
* 26 Fluorobenzene	96	6.849	6.860	(1.000)	2465778	5.00000	
$ 33 Toluene-d8	98	8.722	8.732	(1.273)	2510683	5.14306	5
* 43 Chlorobenzene-d5	117	10.556	10.566	(1.000)	1362366	5.00000	
$ 52 Bromofluorobenzene	95	12.009	12.011	(1.138)	613776	4.27200	4
* 66 1,4-Dichlorobenzene-d4	152	13.361	13.371	(1.000)	411364	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB
2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5613.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 17:53

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	**Benzene**	**1.5**		**0.19**	**0.50**
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	**Toluene**	**0.73**		**0.020**	**0.50**
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5613.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 17:53

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

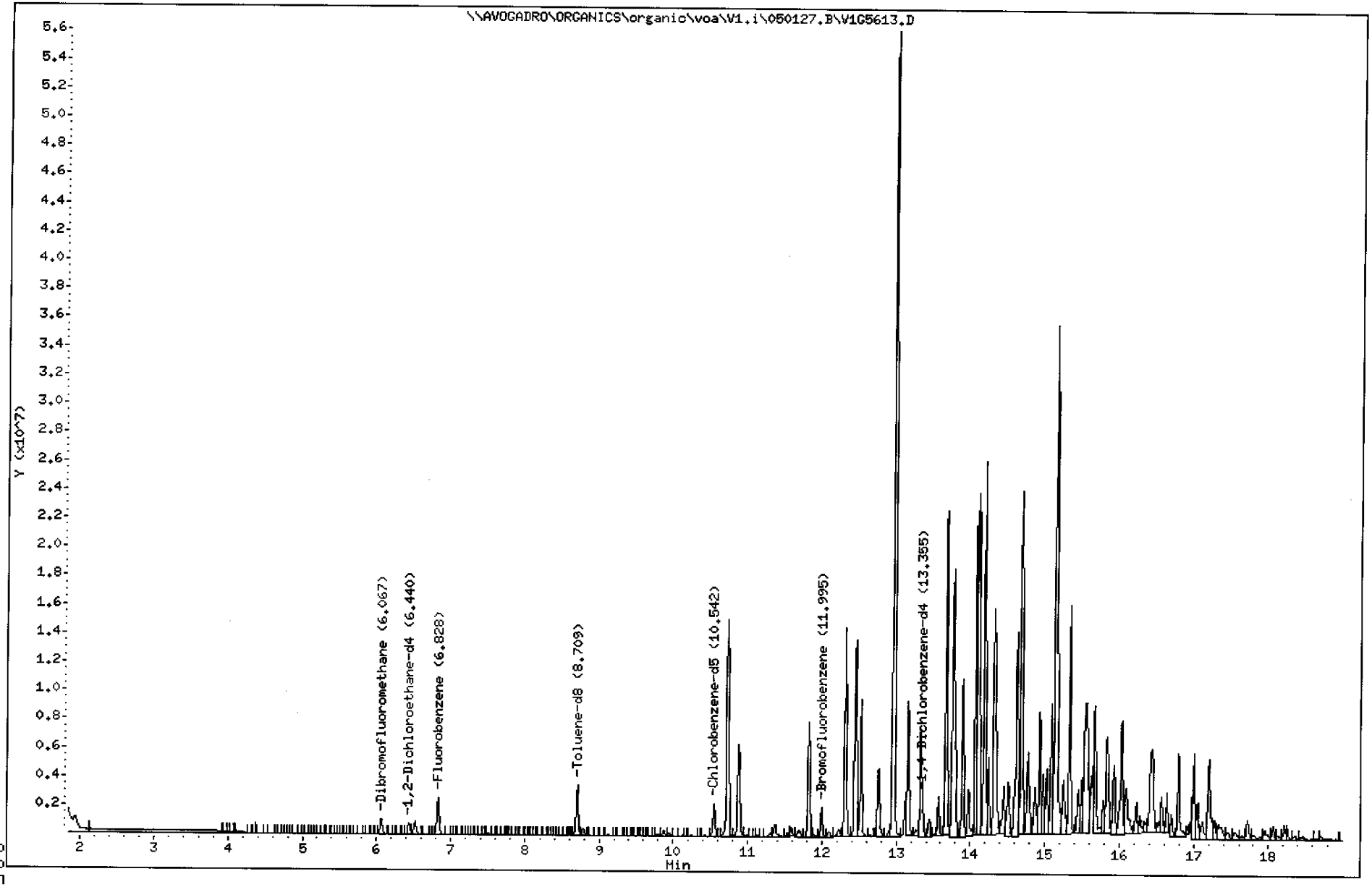
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	**Ethylbenzene**	**22**		**0.18**	**0.50**
1330-20-7	**m,p-Xylene**	**9.3**		**0.35**	**0.50**
95-47-6	**o-Xylene**	**0.94**		**0.030**	**0.50**
1330-20-7	**Xylene (Total)**	**10**		**0.17**	**0.50**
100-42-5	**Styrene**	**0.50**		**0.060**	**0.50**
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	**Isopropylbenzene**	**11**		**0.16**	**0.50**
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	**n-Propylbenzene**	**19**		**0.050**	**0.50**
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	**1,3,5-Trimethylbenzene**	**12**		**0.030**	**0.50**
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	**1,2,4-Trimethylbenzene**	**48**	**L**	**0.040**	**0.50**
135-98-8	**sec-Butylbenzene**	**13**		**0.040**	**0.50**
99-87-6	**4-Isopropyltoluene**	**11**		**0.030**	**0.50**
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	**n-Butylbenzene**	**18**		**0.050**	**0.50**
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	**Naphthalene**	**50**	**L**	**0.42**	**0.50**

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1C5613.D
Date : 27-JAN-2005 17:53
Client ID: CEF-CS1A-01
Sample Info: ,D0058-07A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0059

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D
Lab Smp Id: D0058-07A Client Smp ID: CEF-CS1A-01
Inj Date : 27-JAN-2005 17:53
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-07A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.067	6.090	(0.888)	739344	5.02468	5
$ 23 1,2-Dichloroethane-d4	102	6.447	6.463	(0.944)	109446	5.29189	5
25 Benzene	78	6.517	6.549	(0.954)	947066	1.53931	2
* 26 Fluorobenzene	96	6.828	6.860	(1.000)	2490690	5.00000	
$ 33 Toluene-d8	98	8.709	8.732	(1.275)	2611998	5.29708	5
34 Toluene	91	8.794	8.818	(1.288)	398473	0.73434	0.7
* 43 Chlorobenzene-d5	117	10.550	10.566	(1.000)	1449529	5.00000	
46 Ethylbenzene	106	10.729	10.745	(1.017)	4013527	22.2279	22
47 m,p-Xylene	106	10.876	10.892	(1.031)	1983802	9.26192	9
48 o-Xylene	106	11.374	11.382	(1.078)	189704	0.93605	0.9
M 60 Xylene (Total)	106				2173506	10.1980	10
49 Styrene	104	11.382	11.397	(1.079)	140089	0.49931	0.5
51 Isopropylbenzene	105	11.824	11.833	(0.885)	5913463	10.8182	11
$ 52 Bromofluorobenzene	95	11.995	12.011	(1.137)	787115	5.14904	5
56 n-Propylbenzene	120	12.314	12.330	(0.922)	3045238	19.4076	19(Q)
58 1,3,5-Trimethylbenzene	105	12.524	12.540	(0.938)	5422840	11.6222	12

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D
Report Date: 01-Feb-2005 11:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
62 1,2,4-Trimethylbenzene	105	12.951	12.975	(0.970)	20240219	47.8326	48 (AQ)
63 sec-Butylbenzene	105	13.161	13.177	(0.985)	6984995	12.7999	13
65 4-Isopropyltoluene	119	13.332	13.340	(0.998)	4630942	11.1259	11
* 66 1,4-Dichlorobenzene-d4	152	13.355	13.371	(1.000)	640358	5.00000	(Q)
68 n-Butylbenzene	91	13.790	13.806	(1.033)	6195628	18.0098	18 (Q)
73 Naphthalene	128	15.826	15.834	(1.185)	4465680	50.3741	50 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

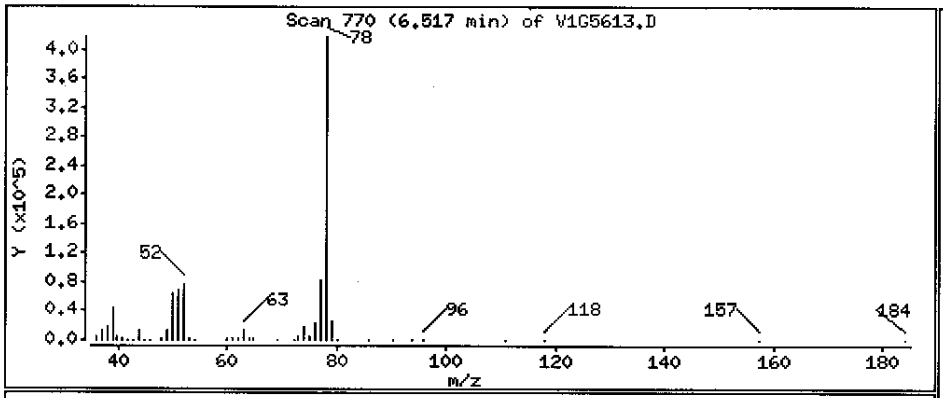
Client ID: CEF-CS1A-01 Instrument: v1.i

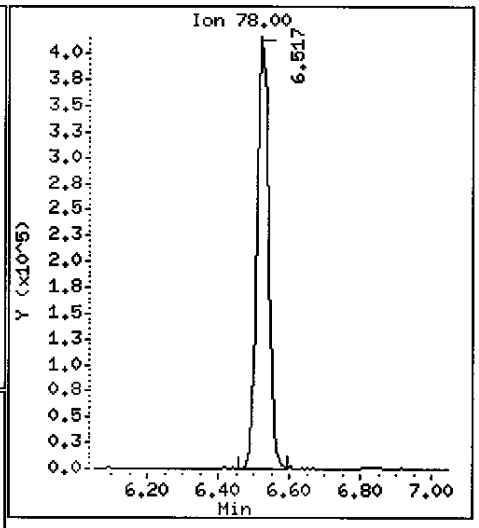
Sample Info: ,D0058-07A,,16639

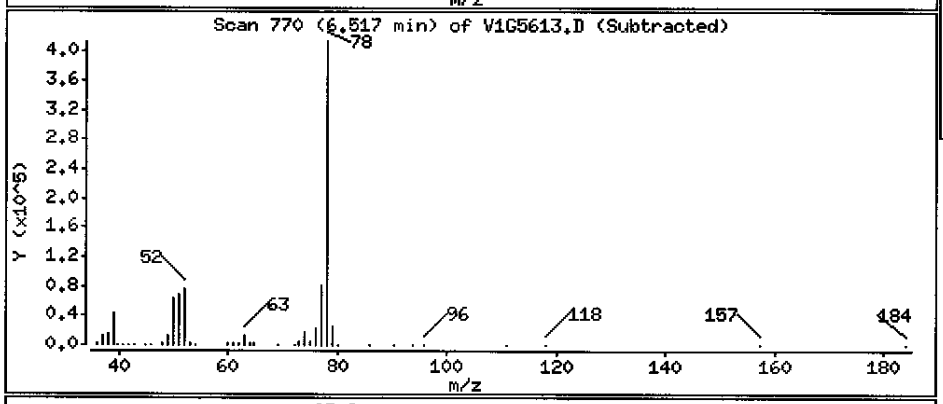
Purge Volume: 25.0 Operator: MS SRC: LIMS

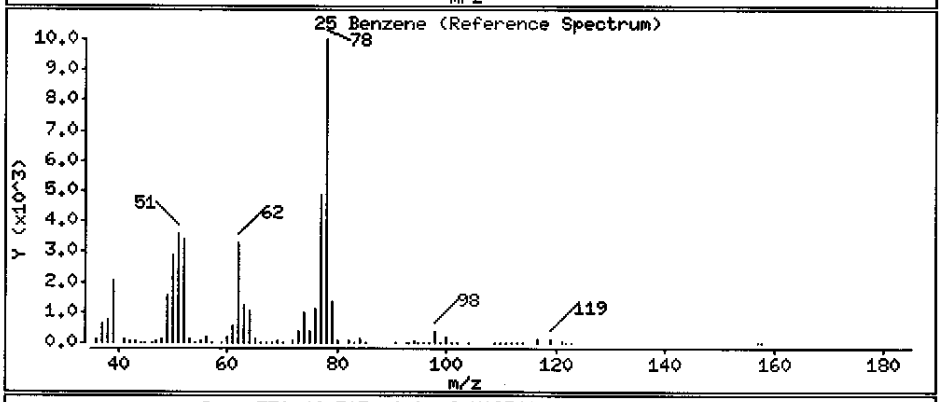
Column phase: DB-624 Column diameter: 0.25

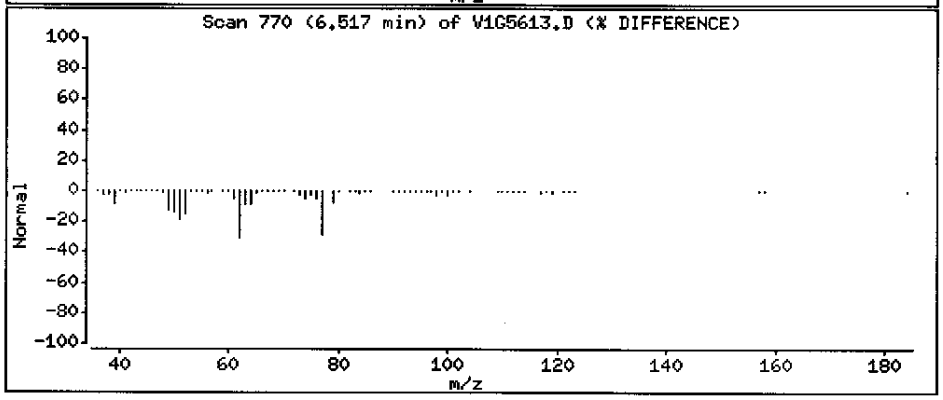
25 Benzene Concentration: 2 ug/L











Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

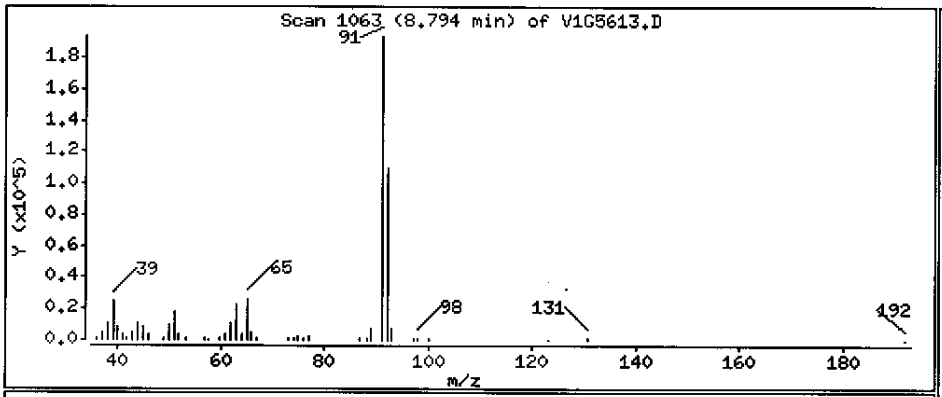
Client ID: CEF-CS1A-01 Instrument: v1.i

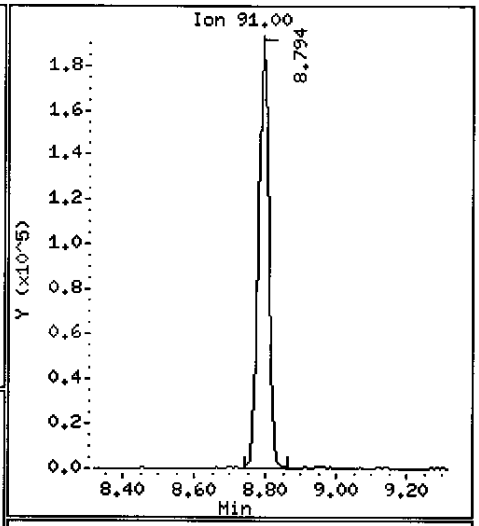
Sample Info: ,D0058-07A,,16639

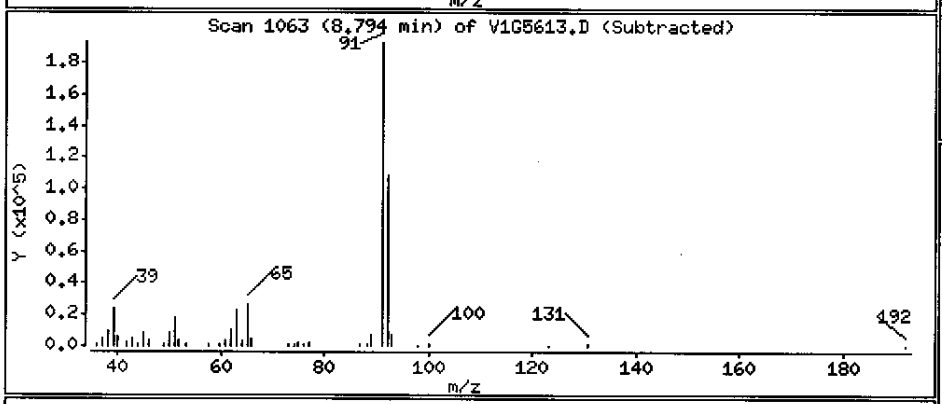
Purge Volume: 25.0 Operator: MS SRC: LIMS

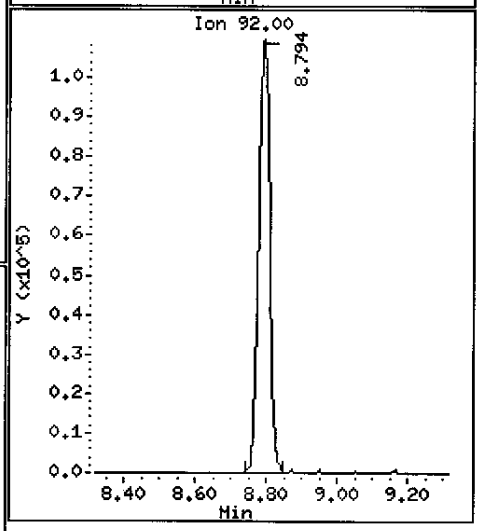
Column phase: DB-624 Column diameter: 0.25

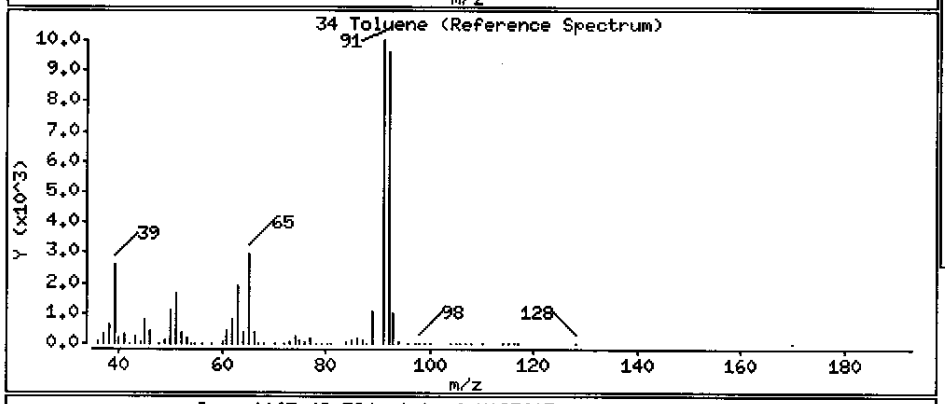
34 Toluene Concentration: 0.7 ug/L

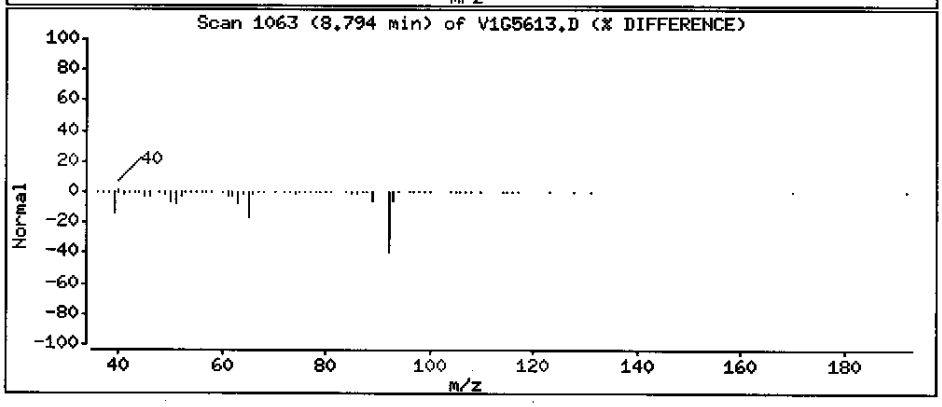












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

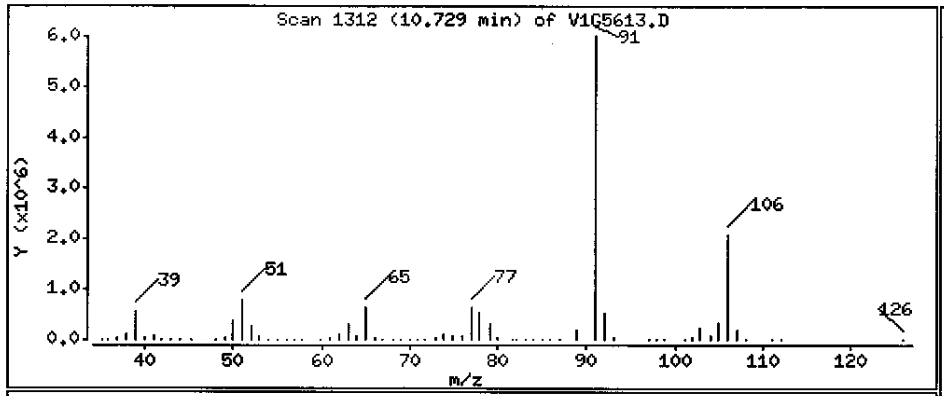
Client ID: CEF-CS1A-01 Instrument: v1.i

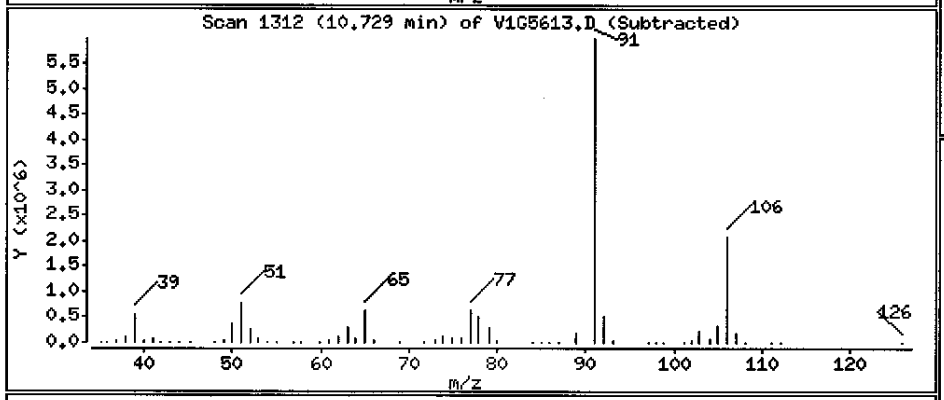
Sample Info: ,D0058-07A,,16639

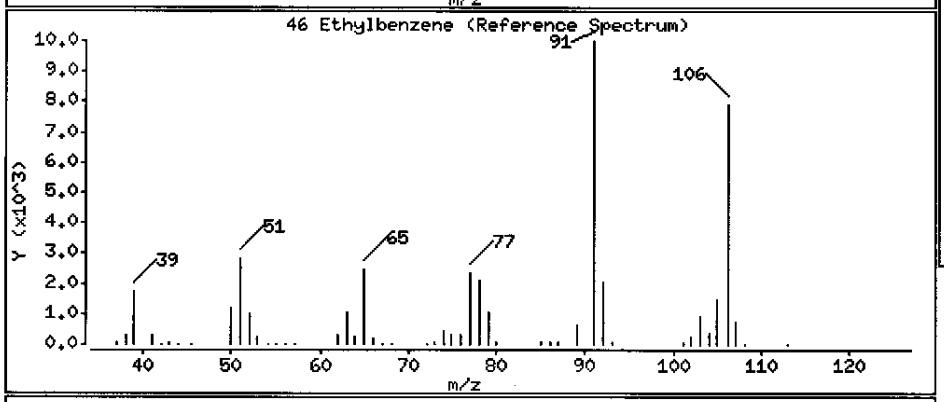
Purge Volume: 25.0 Operator: MS SRC: LIMS

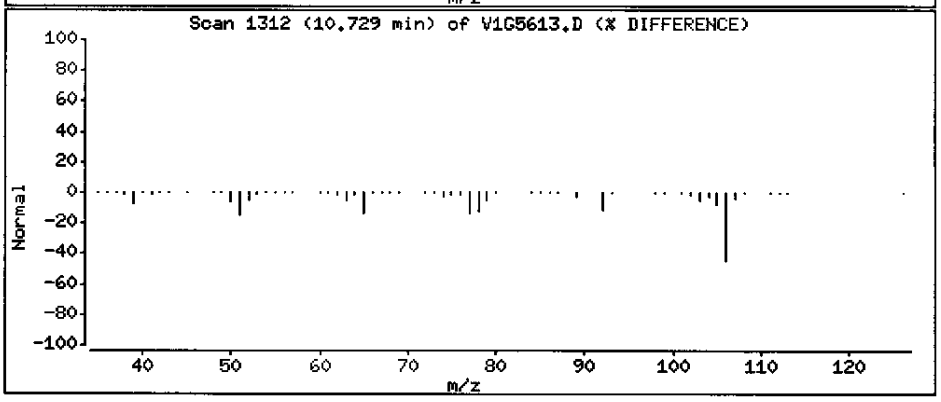
Column phase: DB-624 Column diameter: 0.25

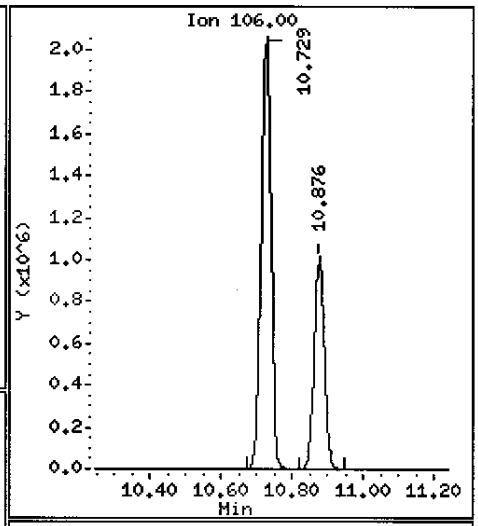
46 Ethylbenzene Concentration: 22 ug/L

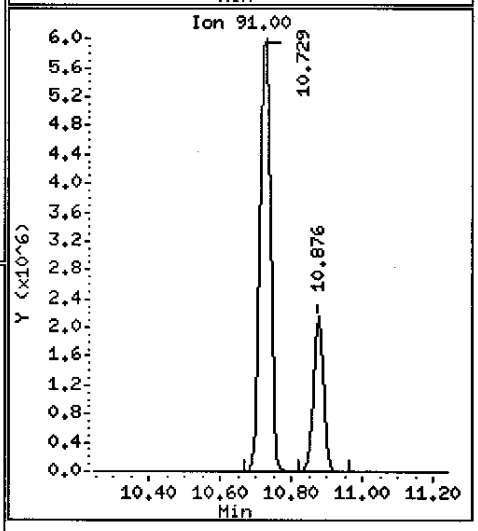












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

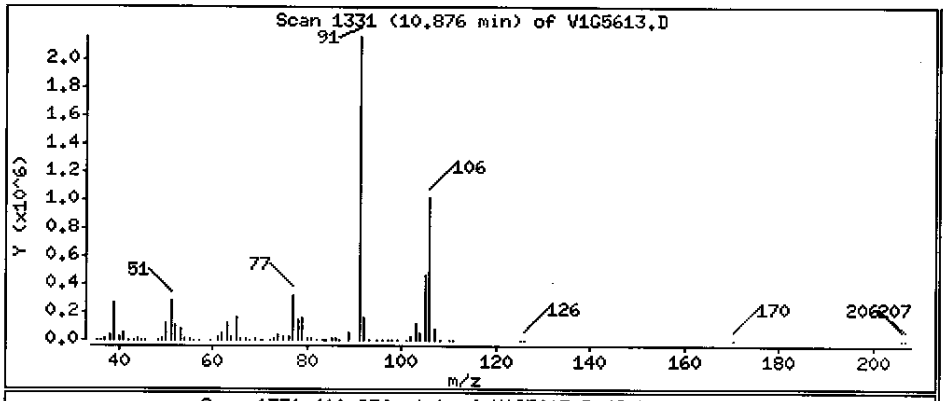
Client ID: CEF-CS1A-01 Instrument: v1.i

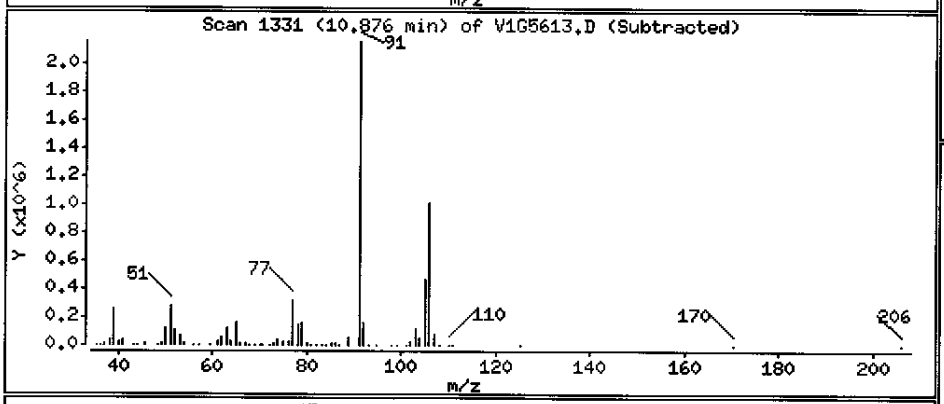
Sample Info: ,D0058-07A,,16639

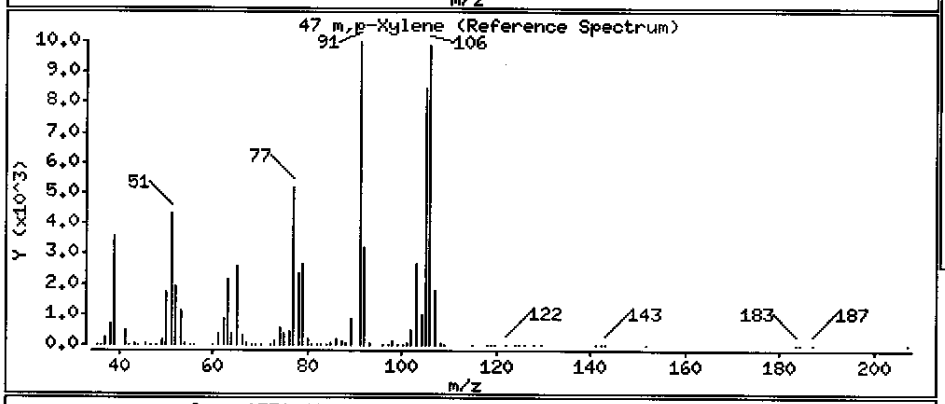
Purge Volume: 25.0 Operator: MS SRC: LIMS

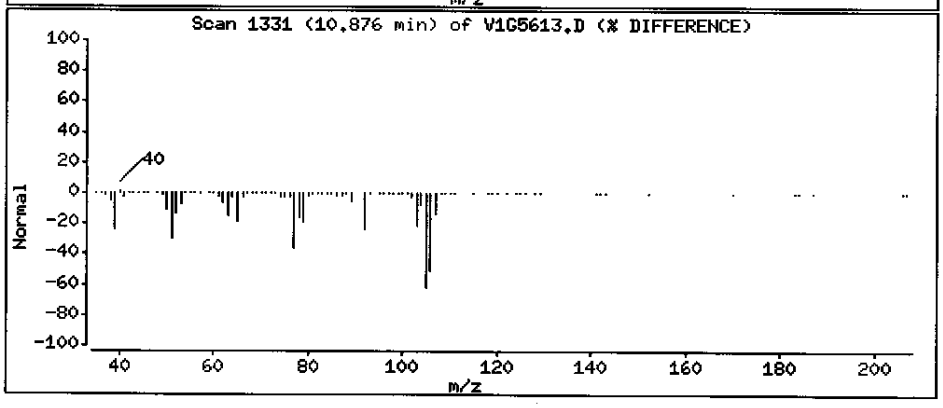
Column phase: DB-624 Column diameter: 0.25

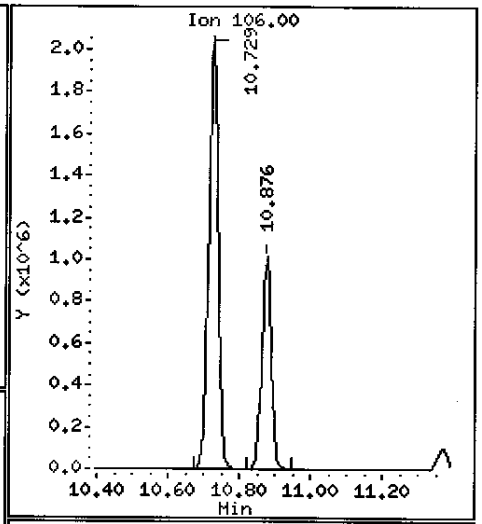
47 m,p-Xylene Concentration: 9 ug/L

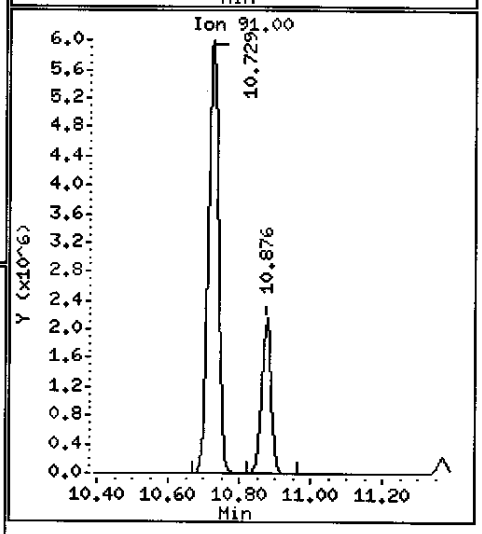












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

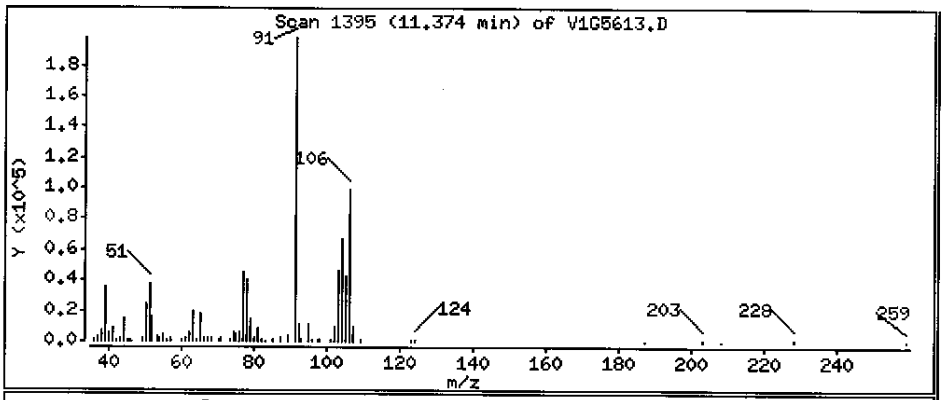
Client ID: CEF-CS1A-01 Instrument: v1.i

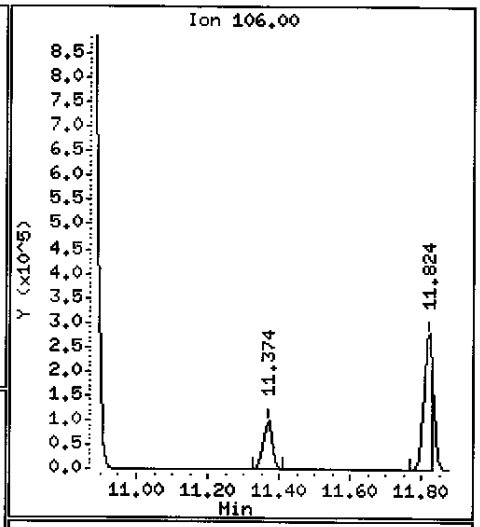
Sample Info: ,D0058-07A,,16639

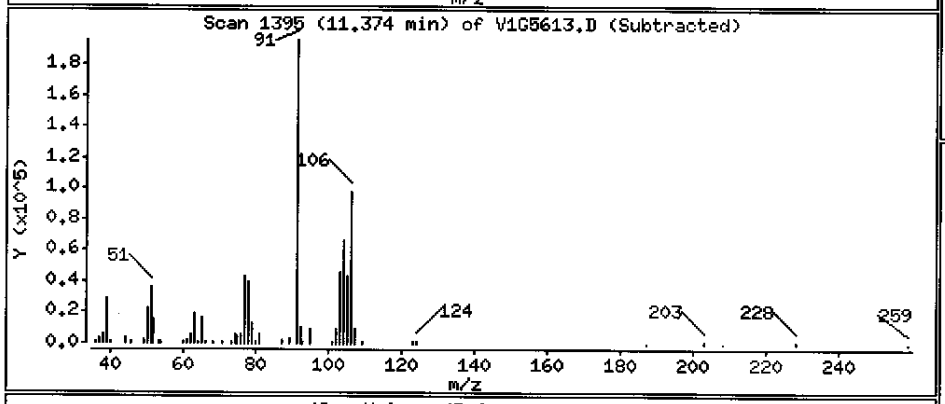
Purge Volume: 25.0 Operator: MS SRC: LIMS

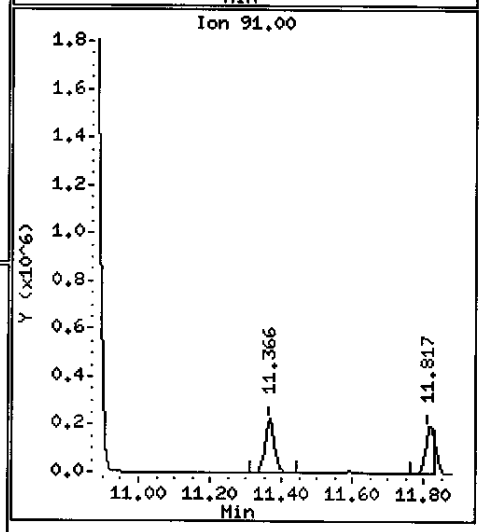
Column phase: DB-624 Column diameter: 0.25

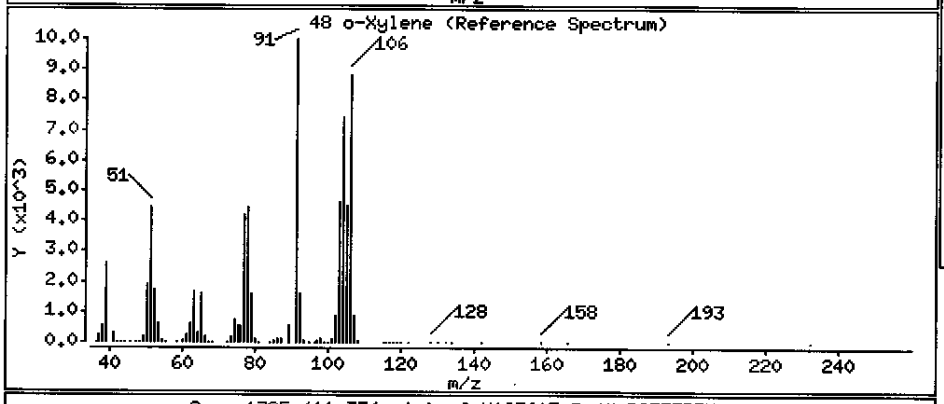
48 o-Xylene Concentration: 0.9 ug/L

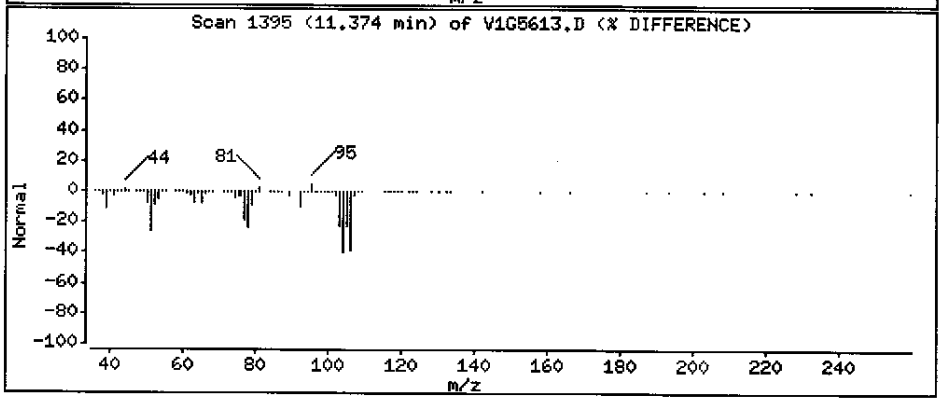












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Date : 27-JAN-2005 17:53

Client ID: CEF-CS1A-01

Instrument: v1.i

Sample Info: ,D0058-07A,,16639

Purge Volume: 25.0

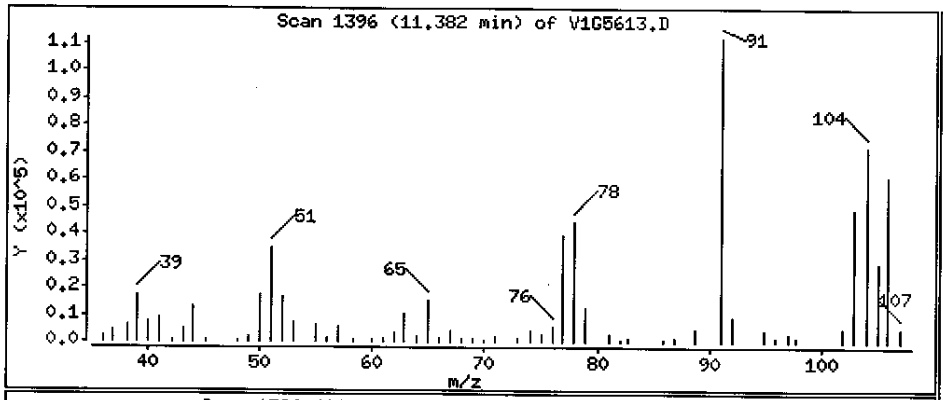
Operator: MS SRC: LIMS

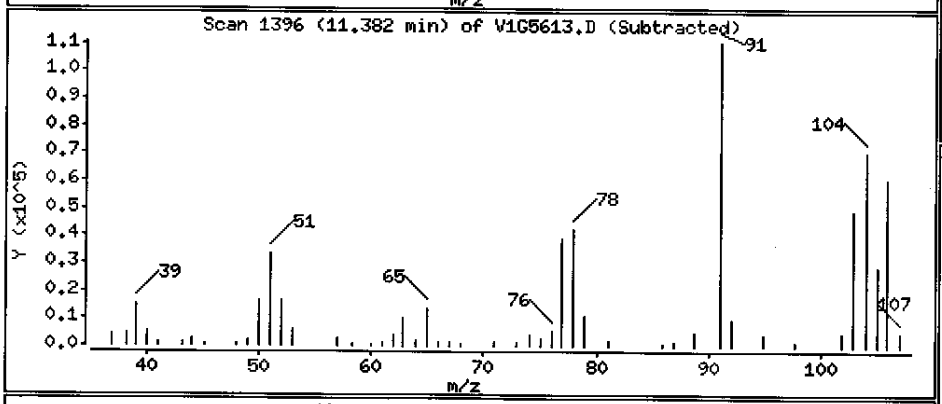
Column phase: DB-624

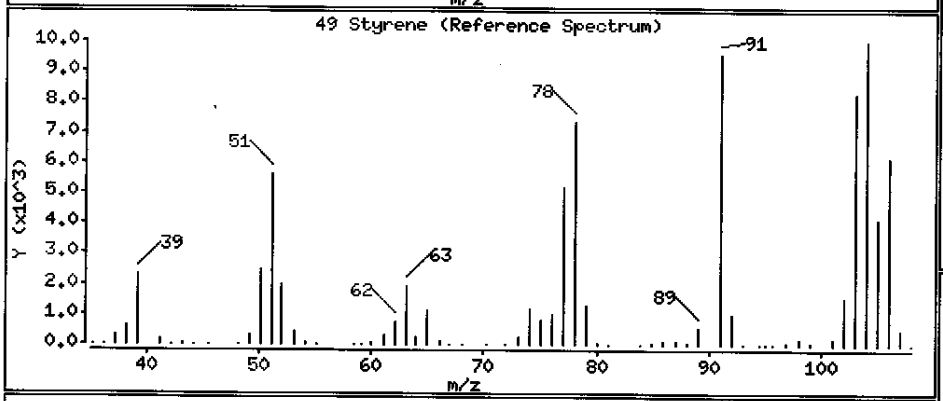
Column diameter: 0.25

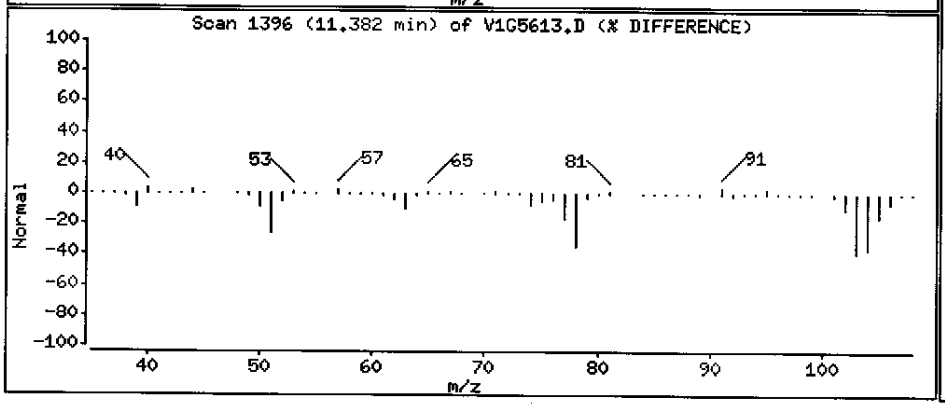
49 Styrene

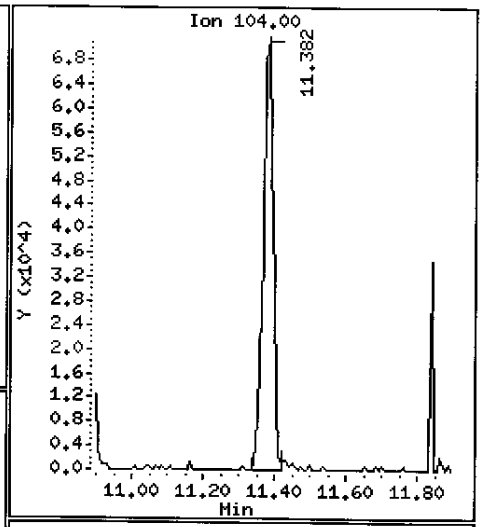
Concentration: 0.5 ug/L

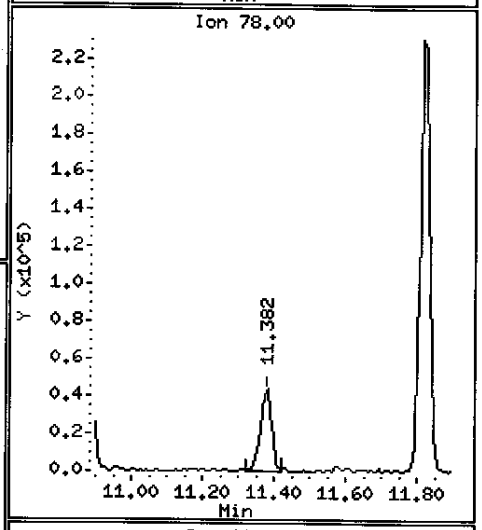


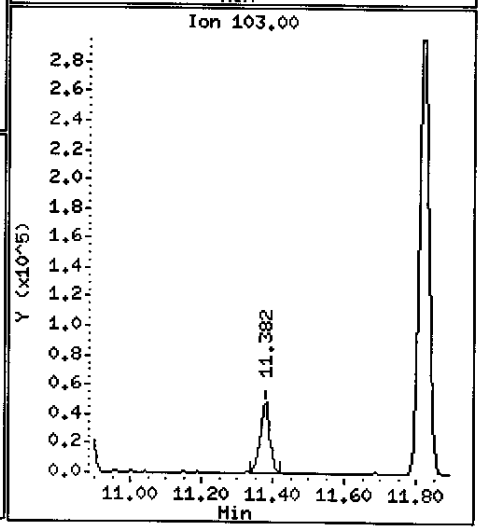












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

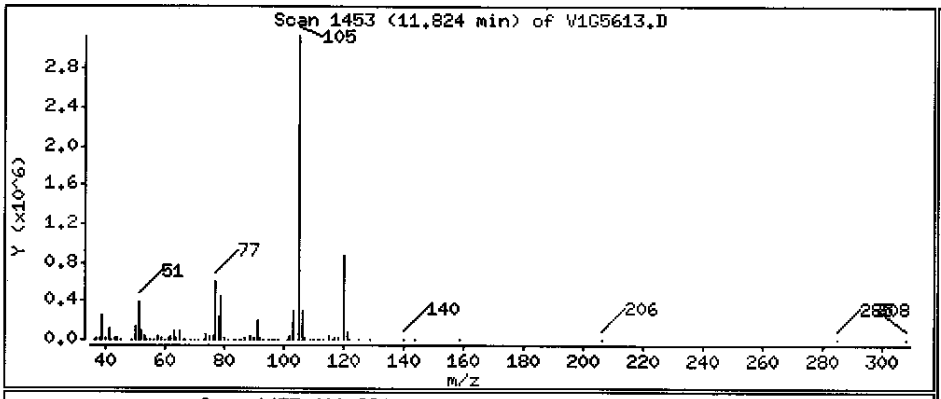
Client ID: CEF-CS1A-01 Instrument: v1.i

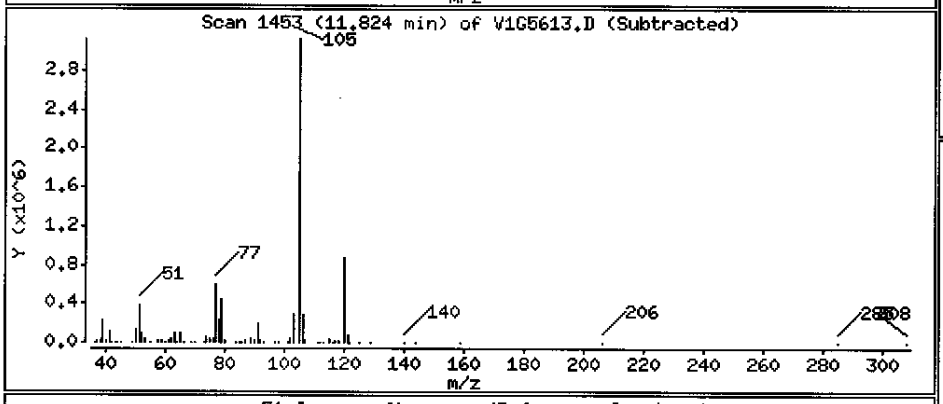
Sample Info: ,D0058-07A,,16639

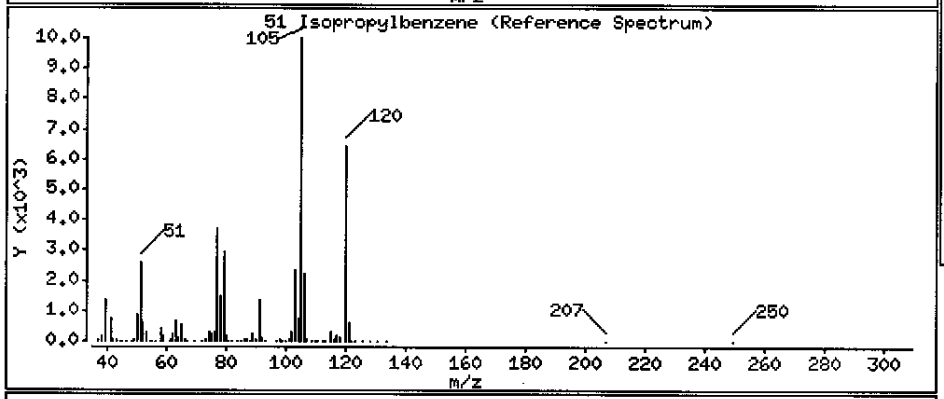
Purge Volume: 25.0 Operator: MS SRC: LIMS

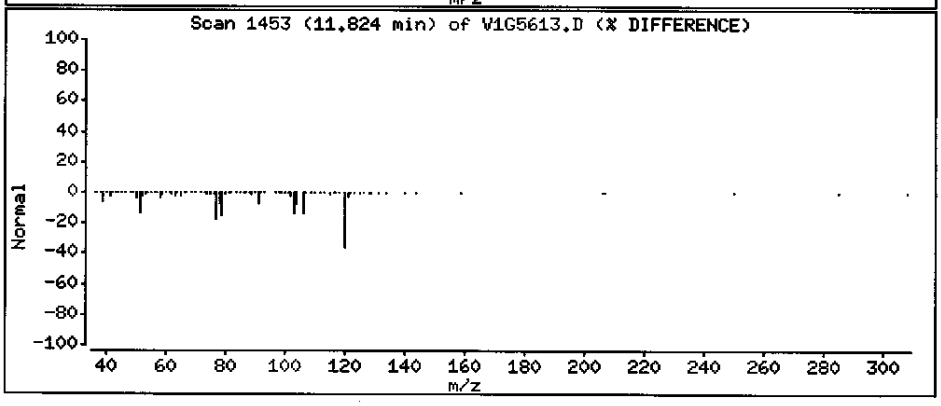
Column phase: DB-624 Column diameter: 0.25

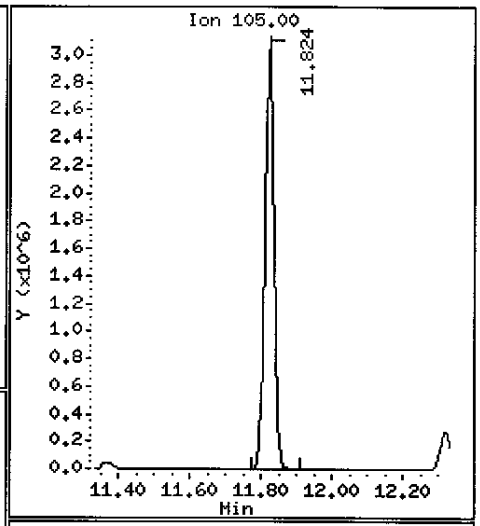
51 Isopropylbenzene Concentration: 11 ug/L

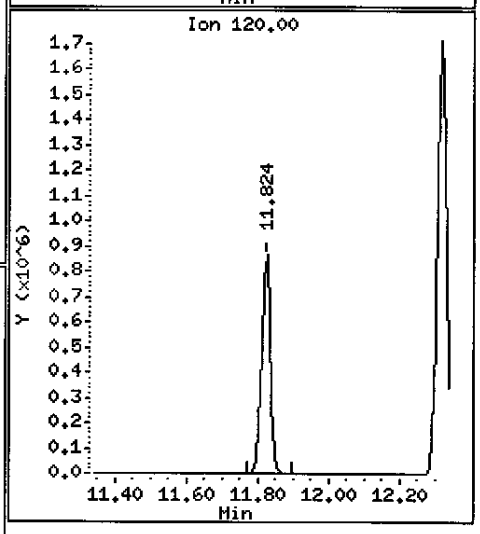












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Date : 27-JAN-2005 17:53

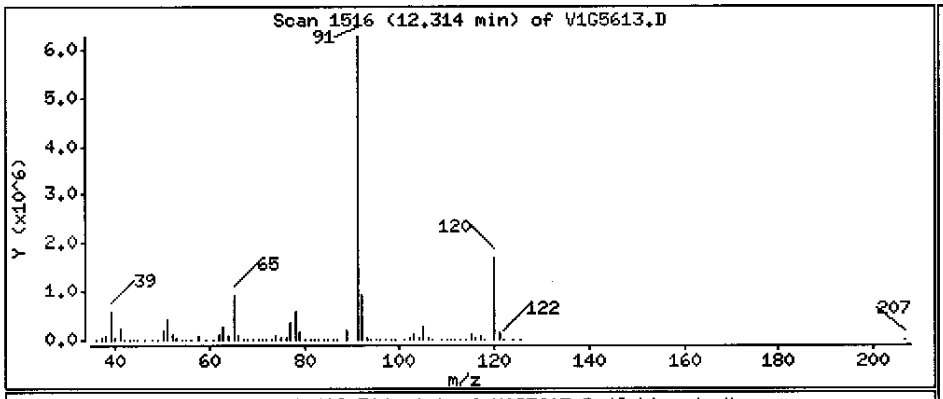
Client ID: CEF-CS1A-01 Instrument: v1.i

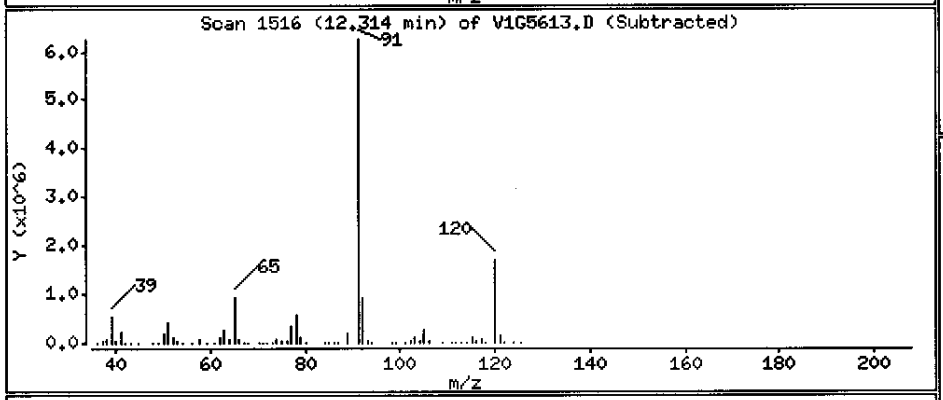
Sample Info: ,D0058-07A,,16639

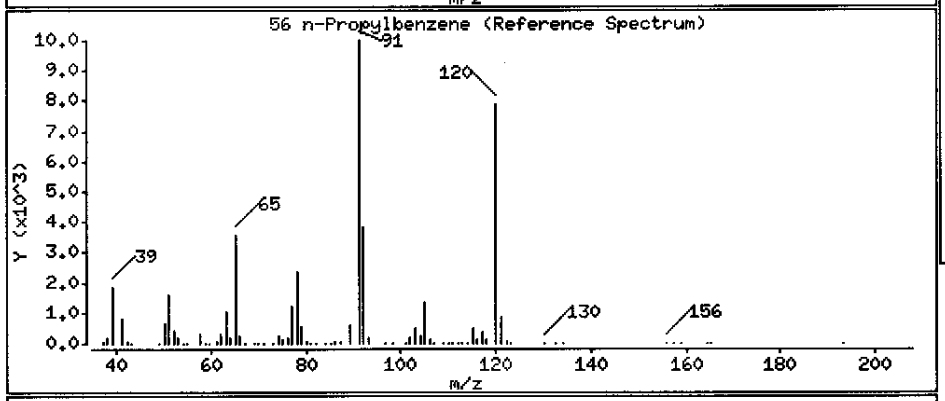
Purge Volume: 25.0 Operator: MS SRC: LIMS

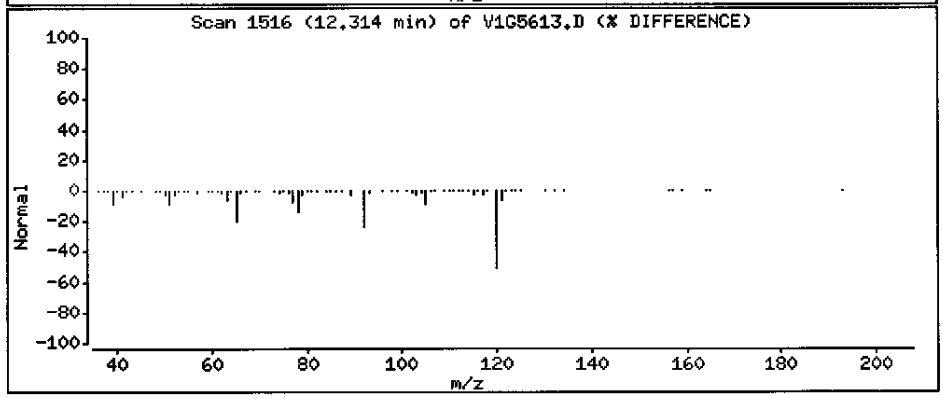
Column phase: DB-624 Column diameter: 0.25

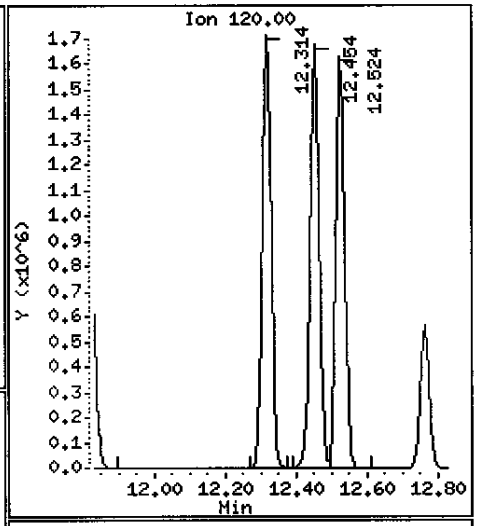
56 n-Propylbenzene Concentration: 19 ug/L

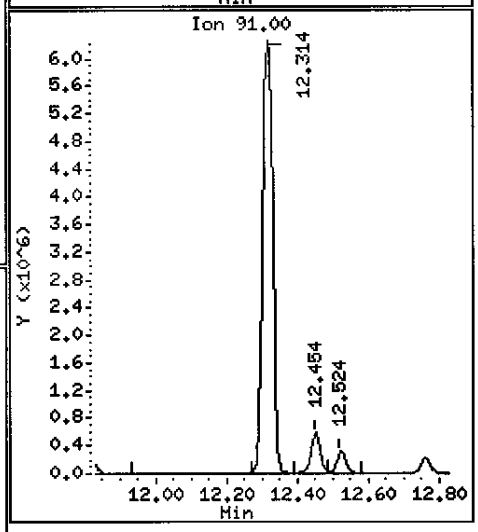












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

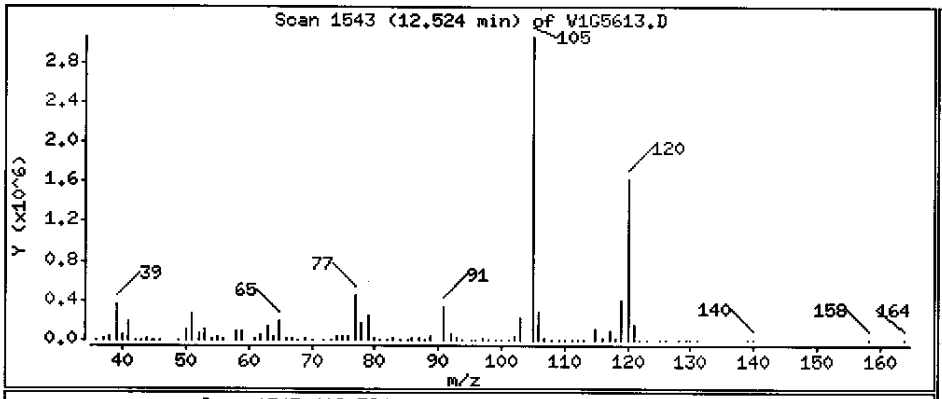
Client ID: CEF-CS1A-01 Instrument: v1.i

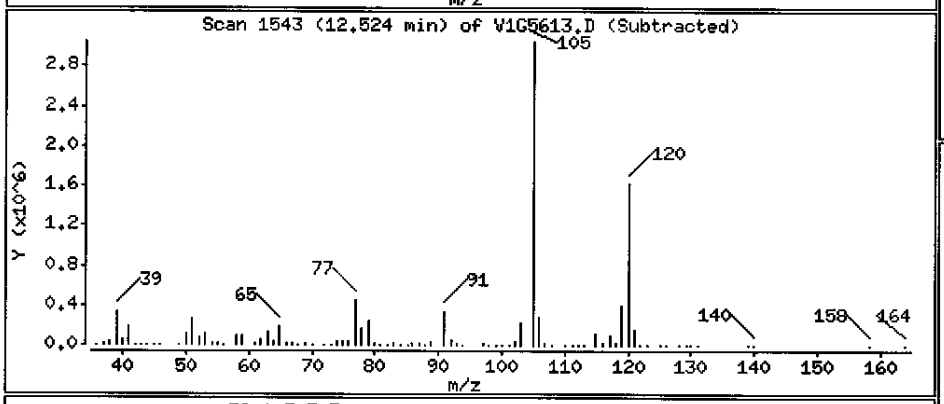
Sample Info: ,D0058-07A,,16639

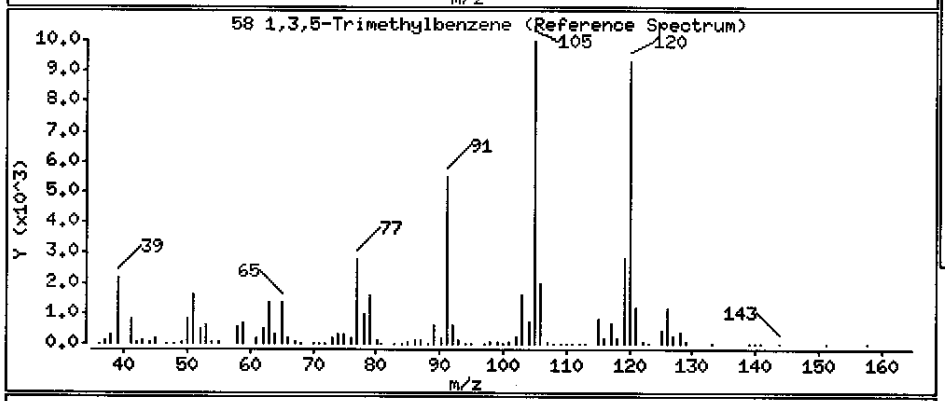
Purge Volume: 25.0 Operator: MS SRC: LIMS

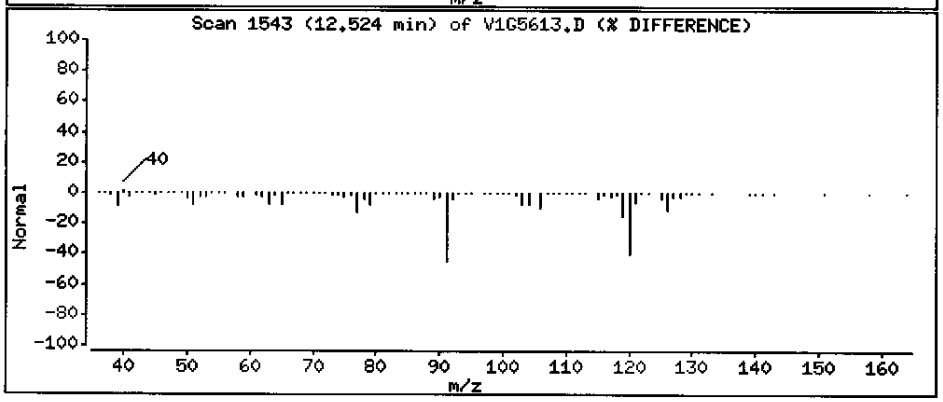
Column phase: DB-624 Column diameter: 0.25

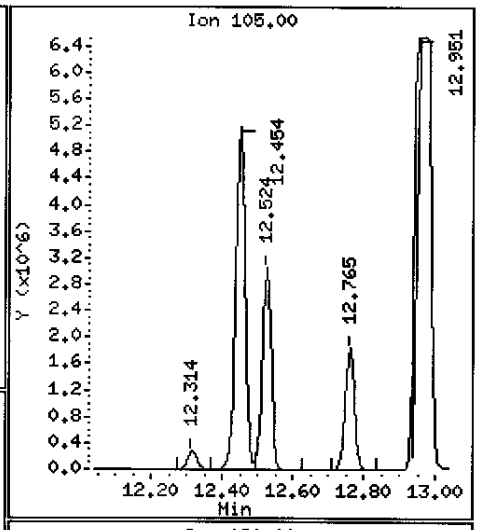
58 1,3,5-Trimethylbenzene Concentration: 12 ug/L

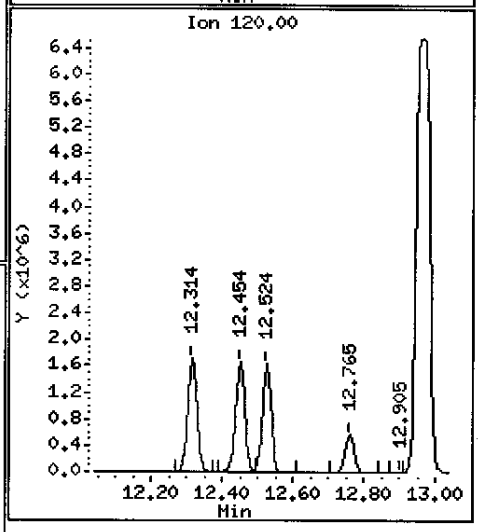












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

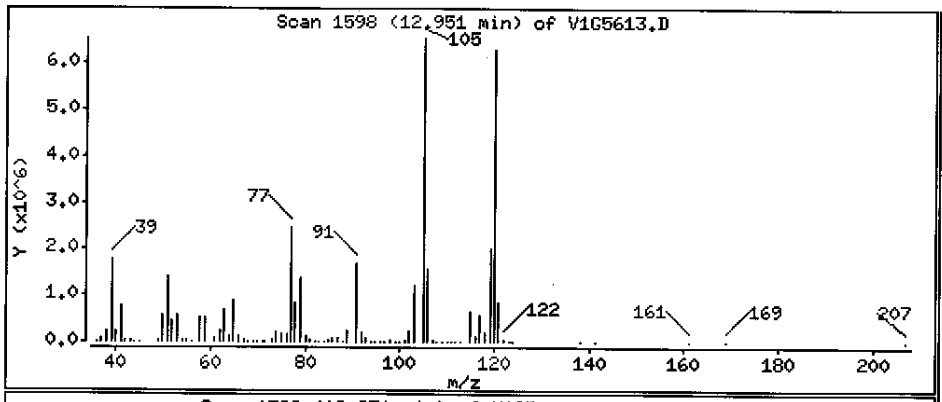
Client ID: CEF-CS1A-01 Instrument: v1.i

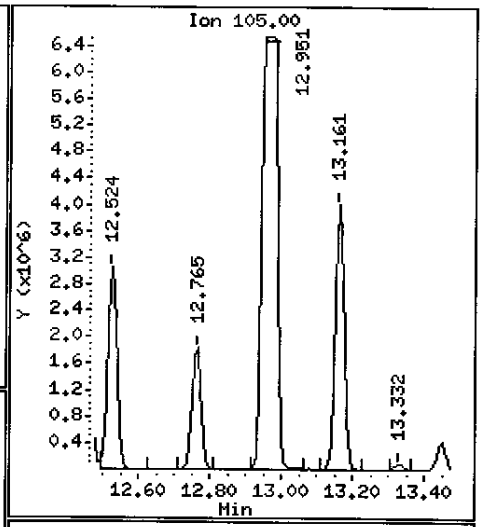
Sample Info: ,D0058-07A,,16639

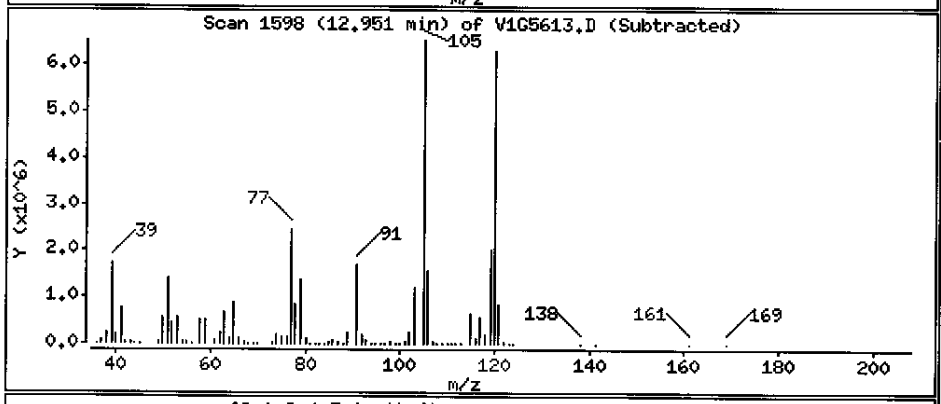
Purge Volume: 25.0 Operator: HS SRC: LIMS

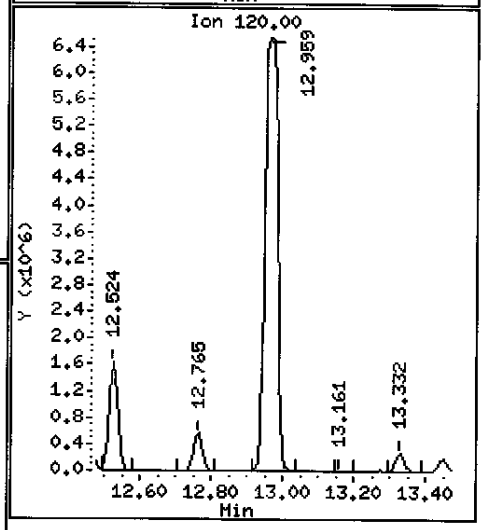
Column phase: DB-624 Column diameter: 0.25

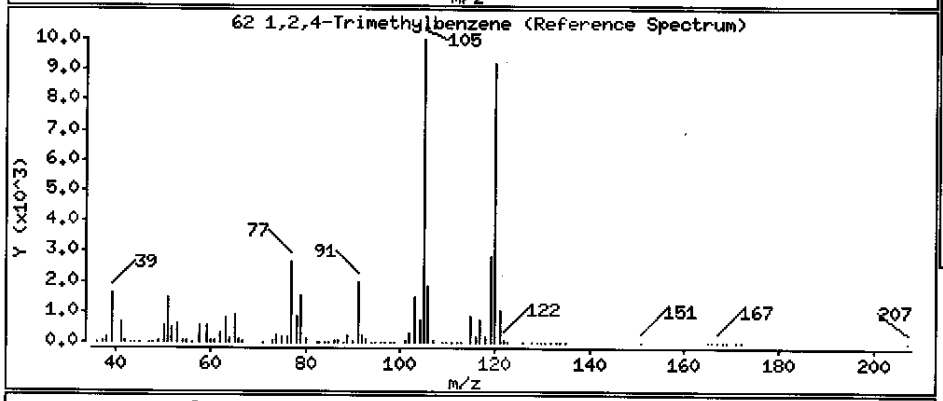
62 1,2,4-Trimethylbenzene Concentration: 48 ug/L

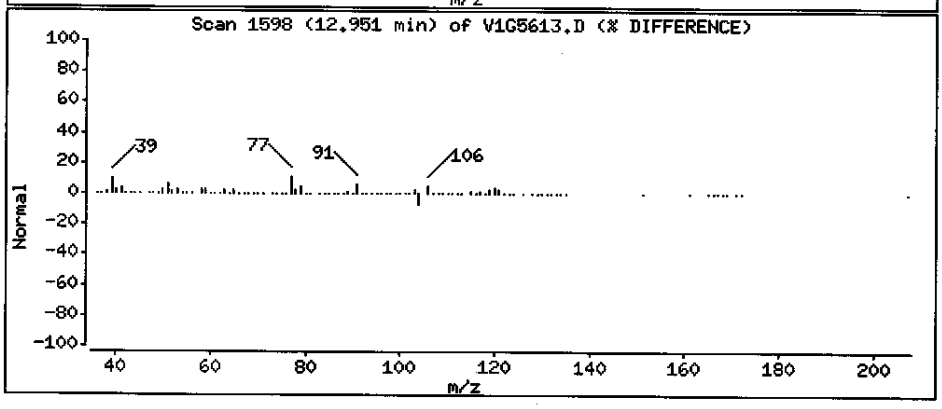












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

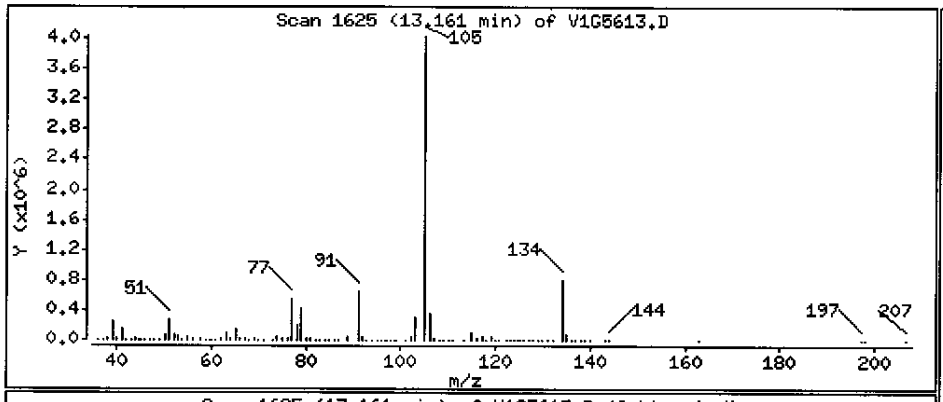
Client ID: CEF-CS1A-01 | Instrument: v1.i

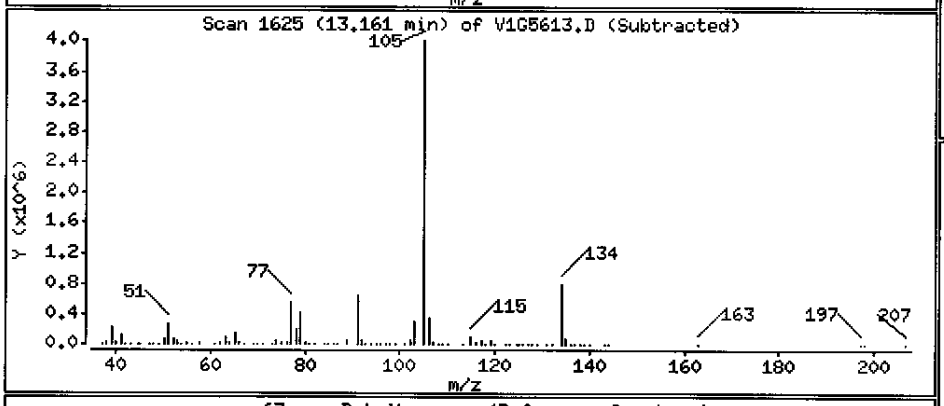
Sample Info: ,D0058-07A,,16639

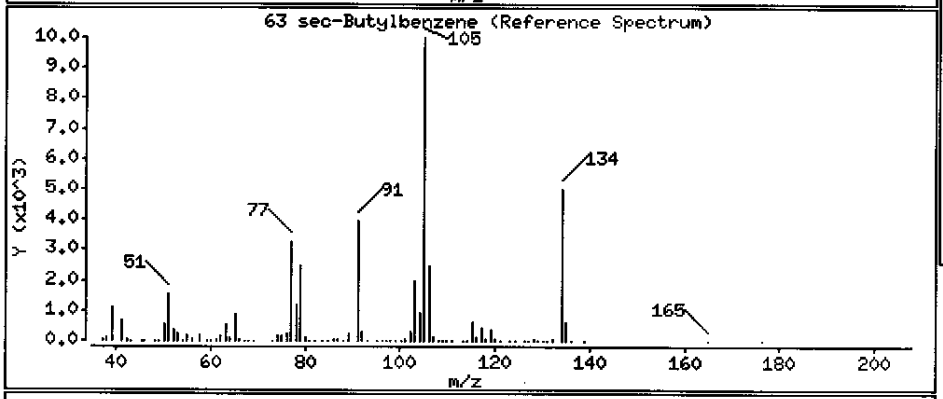
Purge Volume: 25.0 | Operator: MS SRC: LIMS

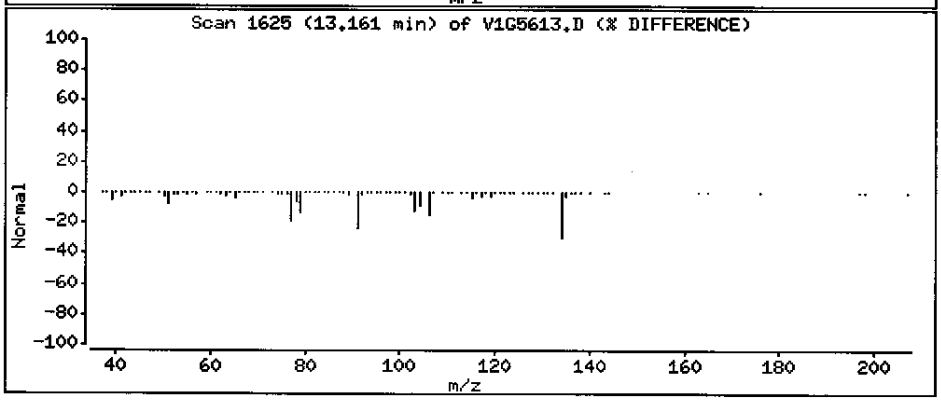
Column phase: DB-624 | Column diameter: 0.25

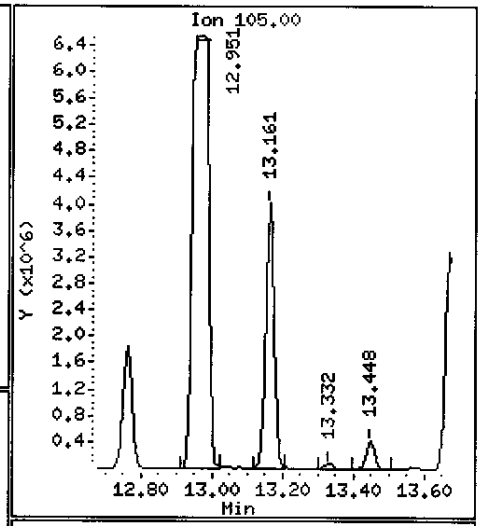
63 sec-Butylbenzene | Concentration: 13 ug/L

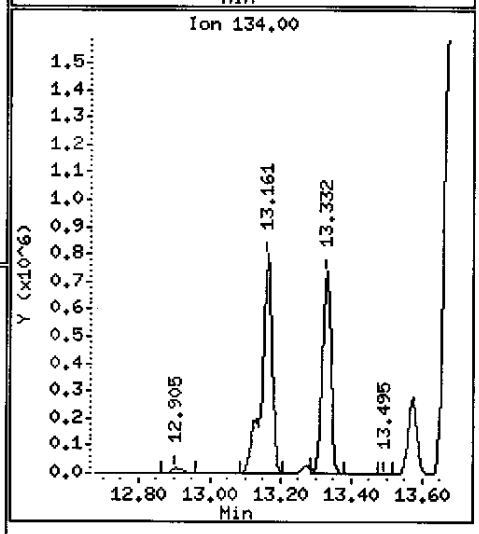












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

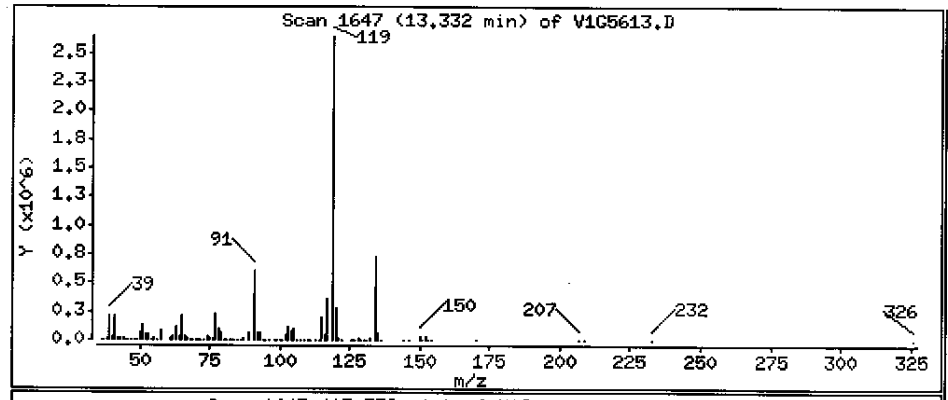
Client ID: CEF-CS1A-01 Instrument: v1.i

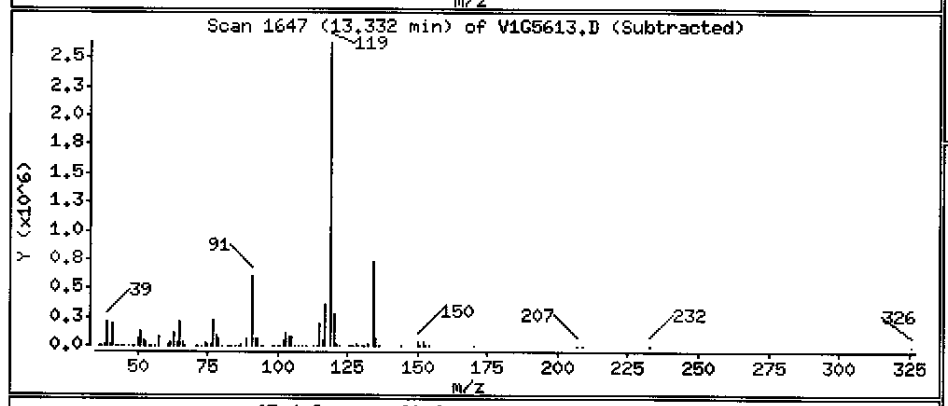
Sample Info: ,D0058-07A,,16639

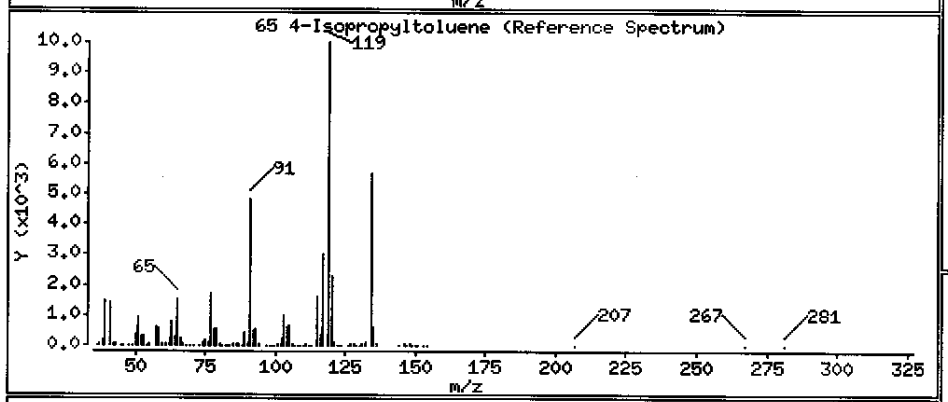
Purge Volume: 25.0 Operator: MS SRC: LIMS

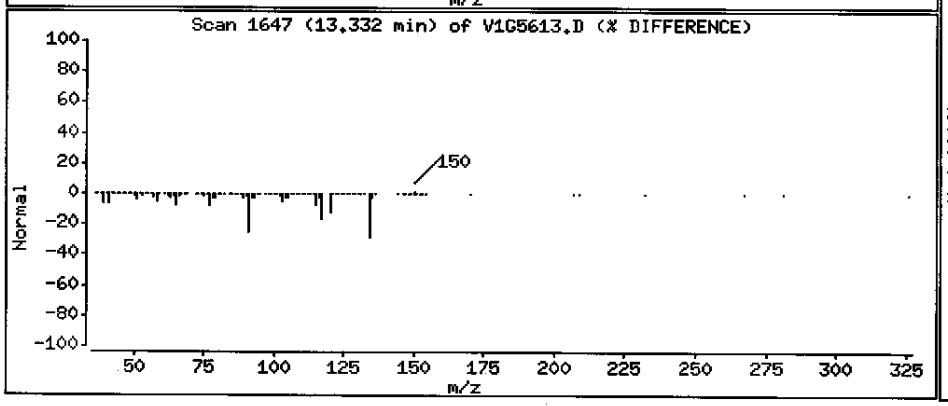
Column phase: DB-624 Column diameter: 0.25

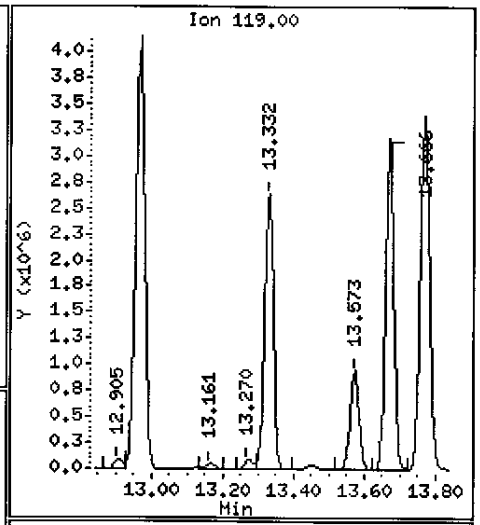
65 4-Isopropyltoluene Concentration: 11 ug/L

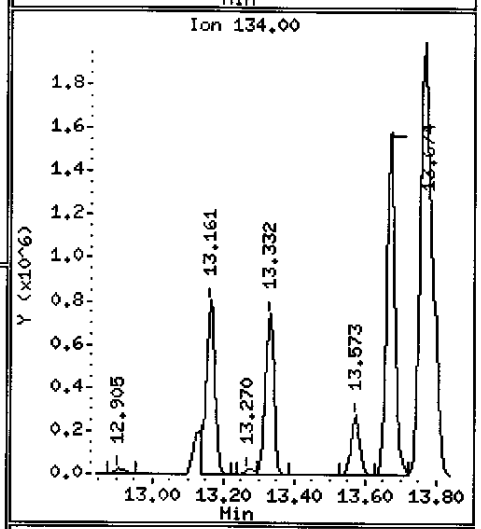


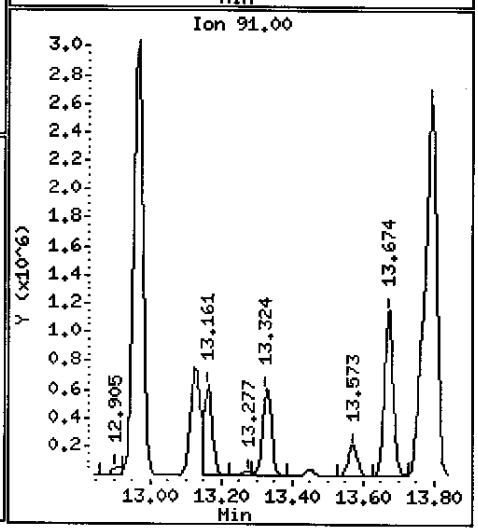












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

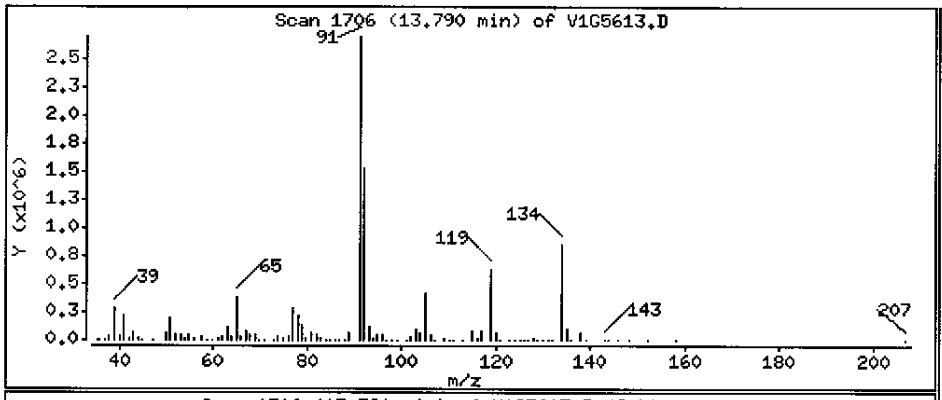
Client ID: CEF-CS1A-01 Instrument: v1.i

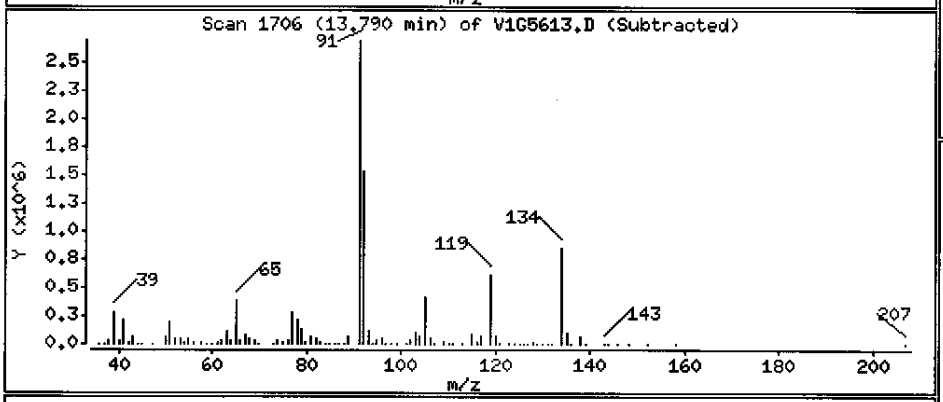
Sample Info: ,D0058-07A,,16639

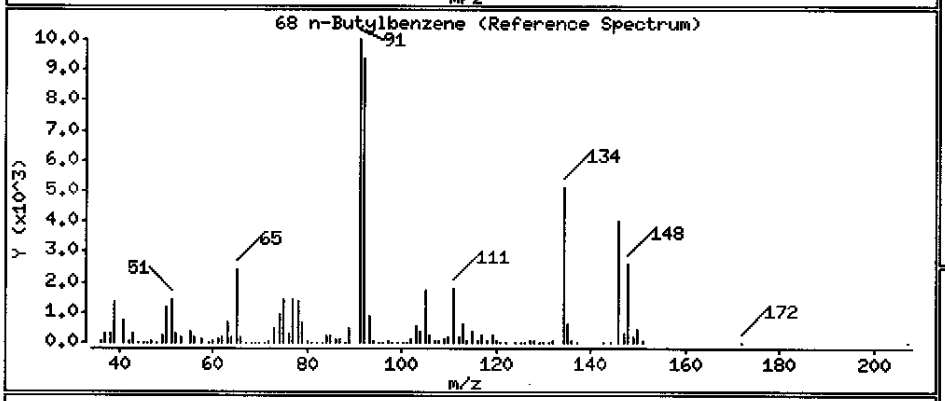
Purge Volume: 25.0 Operator: MS SRC: LIMS

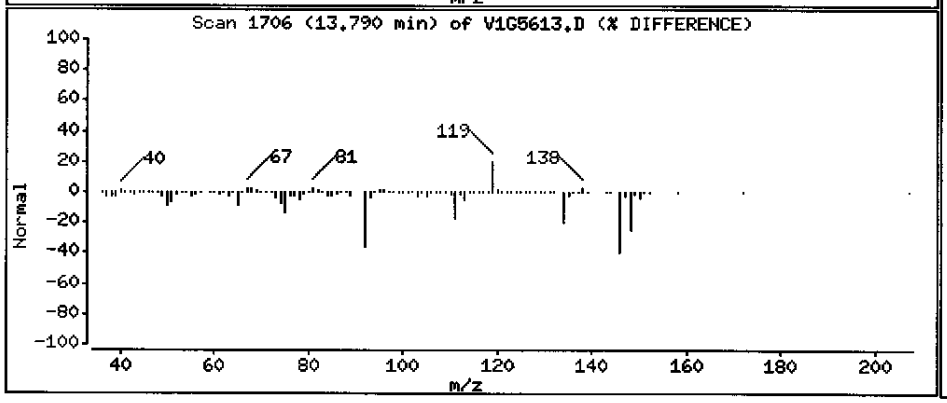
Column phase: DB-624 Column diameter: 0.25

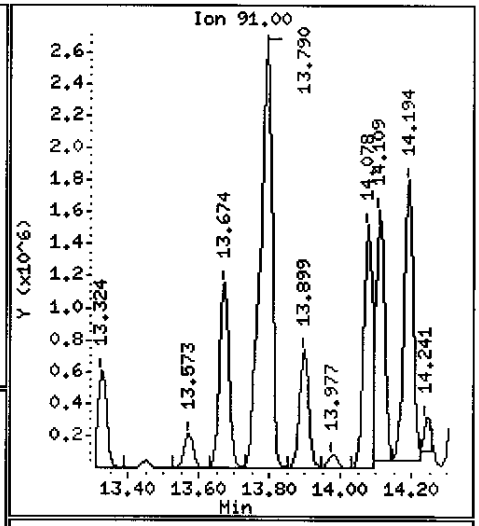
68 n-Butylbenzene Concentration: 18 ug/L

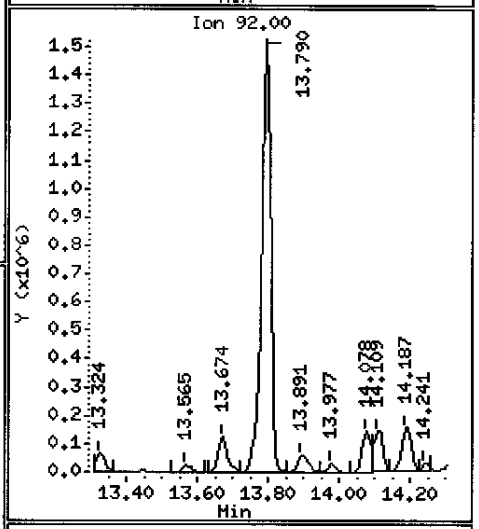


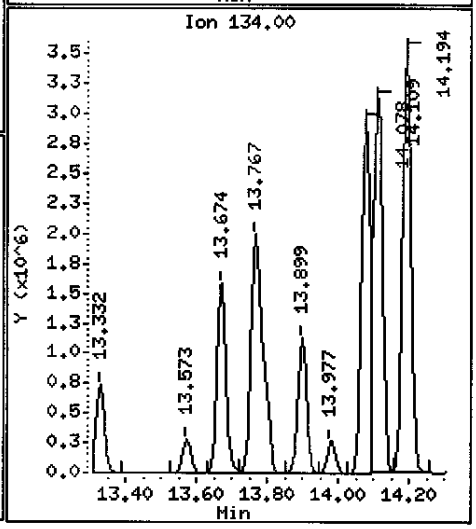












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5613.D

Date : 27-JAN-2005 17:53

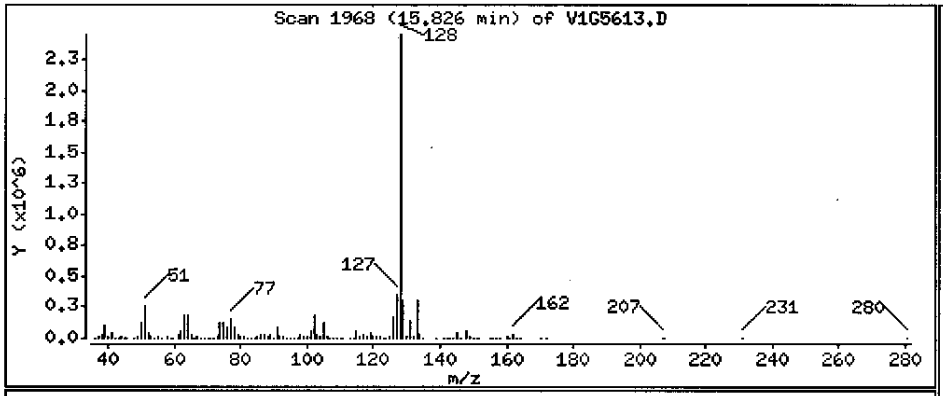
Client ID: CEF-CS1A-01 Instrument: v1.i

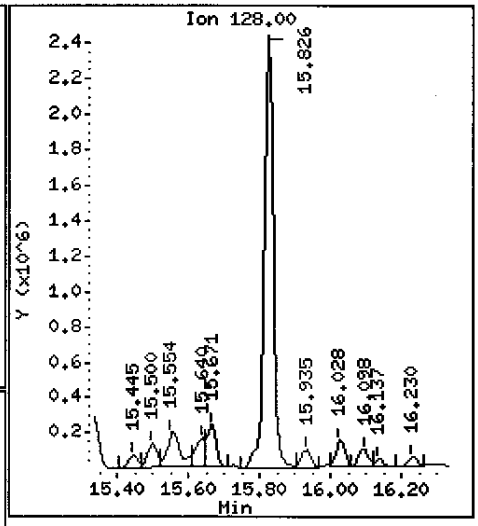
Sample Info: ,D0058-07A,,16639

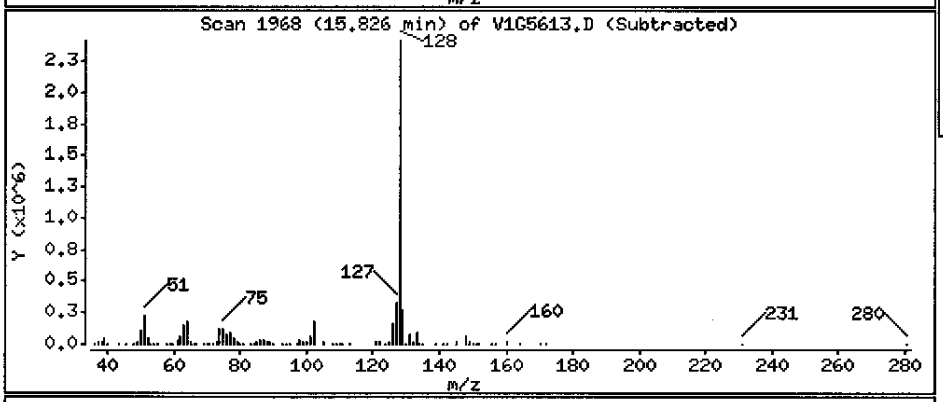
Purge Volume: 25.0 Operator: MS SRC: LIMS

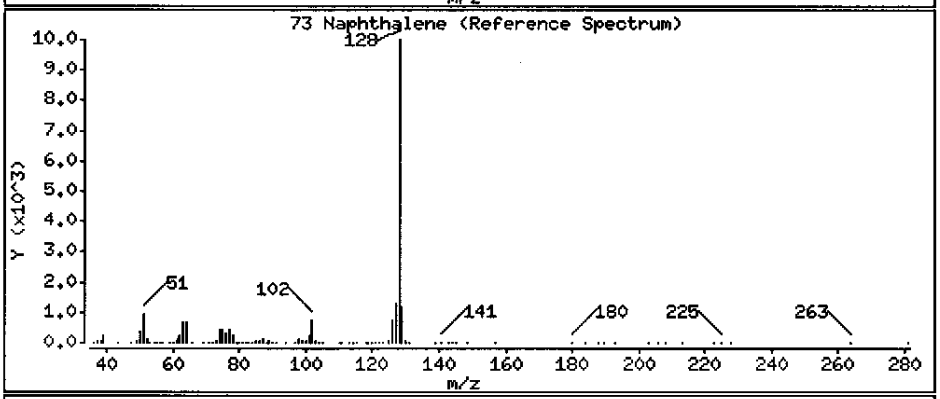
Column phase: DB-624 Column diameter: 0.25

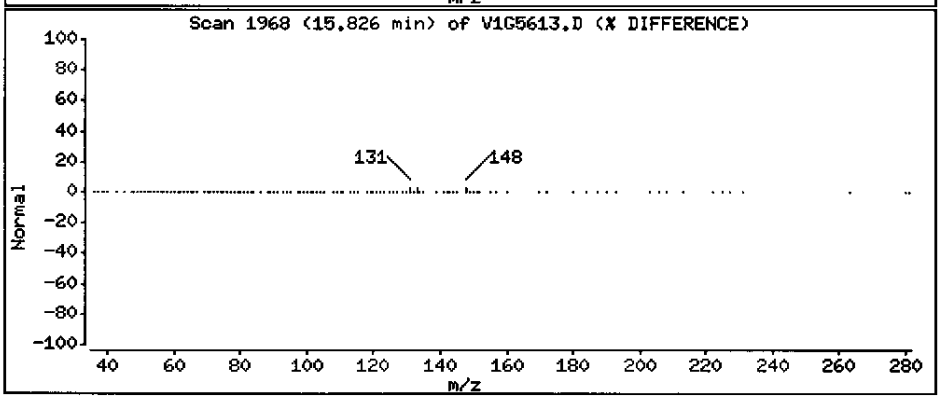
73 Naphthalene Concentration: 50 ug/L











1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5643.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 6.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 17:29

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	3.0	U	2.6	3.0
74-87-3	Chloromethane	3.0	U	1.7	3.0
75-01-4	Vinyl chloride	3.0	U	1.3	3.0
74-83-9	Bromomethane	3.0	U	1.3	3.0
75-00-3	Chloroethane	3.0	U	1.4	3.0
75-69-4	Trichlorofluoromethane	3.0	U	1.3	3.0
75-35-4	1,1-Dichloroethene	3.0	U	0.36	3.0
67-64-1	Acetone	30	U	3.4	30
75-15-0	Carbon disulfide	3.0	U	0.18	3.0
75-09-2	Methylene chloride	3.0	U	2.6	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	0.12	3.0
1634-04-4	Methyl tert-butyl ether	3.0	U	0.60	3.0
75-34-3	1,1-Dichloroethane	3.0	U	1.3	3.0
78-93-3	2-Butanone	30	U	2.2	30
156-59-2	cis-1,2-Dichloroethene	3.0	U	0.12	3.0
594-20-7	2,2-Dichloropropane	3.0	U	1.4	3.0
74-97-5	Bromochloromethane	3.0	U	0.96	3.0
67-66-3	Chloroform	3.0	U	1.1	3.0
71-55-6	1,1,1-Trichloroethane	3.0	U	0.12	3.0
563-58-6	1,1-Dichloropropene	3.0	U	0.18	3.0
56-23-5	Carbon tetrachloride	3.0	U	1.3	3.0
107-06-2	1,2-Dichloroethane	3.0	U	0.54	3.0
71-43-2	Benzene	3.0	U	1.1	3.0
79-01-6	Trichloroethene	3.0	U	1.0	3.0
78-87-5	1,2-Dichloropropane	3.0	U	0.12	3.0
74-95-3	Dibromomethane	3.0	U	0.48	3.0
75-27-4	Bromodichloromethane	3.0	U	0.12	3.0
10061-01-5	cis-1,3-Dichloropropene	3.0	U	0.12	3.0
108-10-1	4-Methyl-2-pentanone	30	U	1.3	30
108-88-3	Toluene	3.0	U	0.12	3.0
10061-02-6	trans-1,3-Dichloropropene	3.0	U	0.48	3.0
79-00-5	1,1,2-Trichloroethane	3.0	U	0.60	3.0
142-28-9	1,3-Dichloropropane	3.0	U	0.36	3.0

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-07ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5643.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 11:15

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 6.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 17:29

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

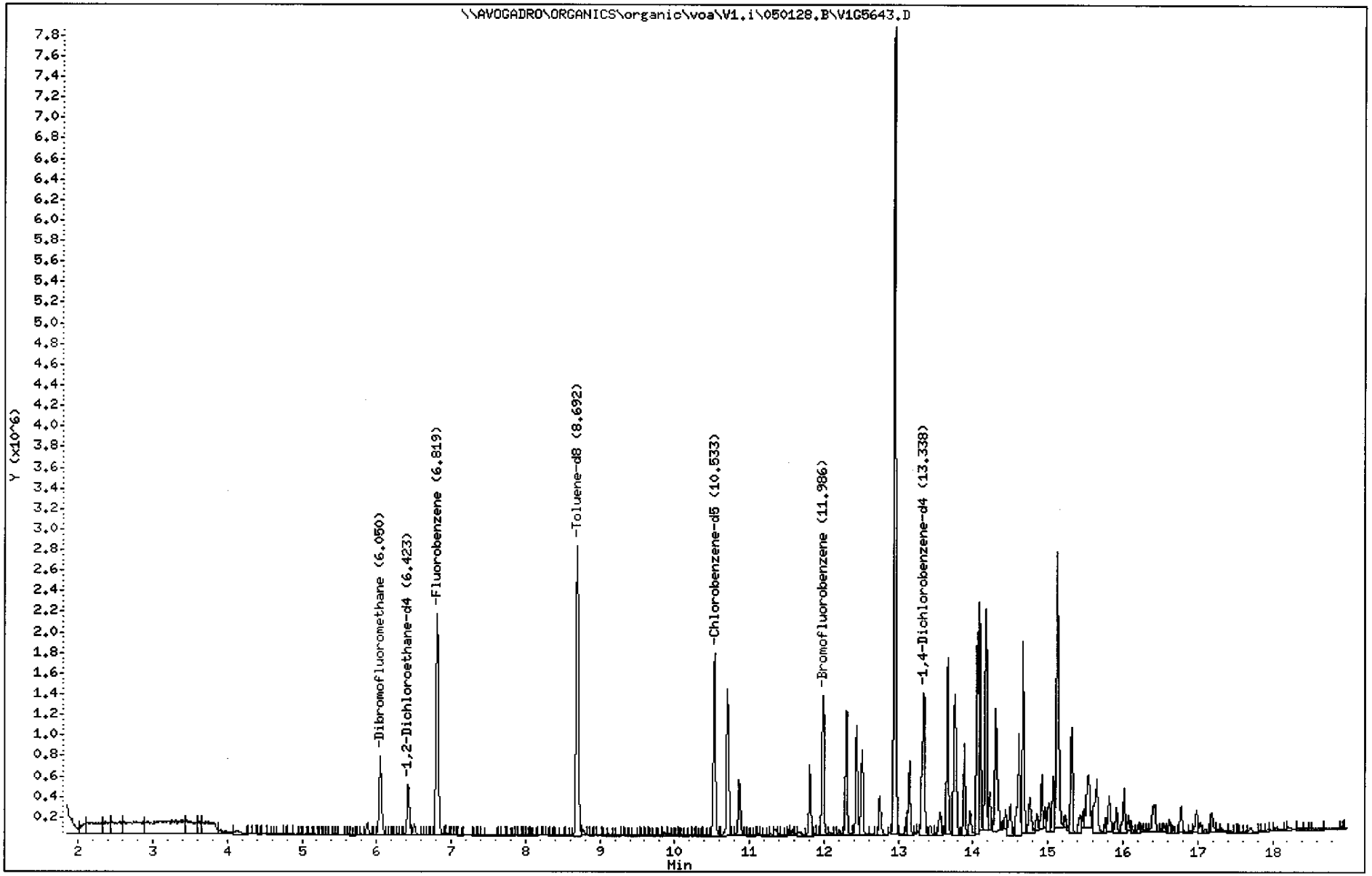
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	3.0	U	0.12	3.0
591-78-6	2-Hexanone	30	U	1.7	30
124-48-1	Dibromochloromethane	3.0	U	0.36	3.0
106-93-4	1,2-Dibromoethane	3.0	U	0.18	3.0
108-90-7	Chlorobenzene	3.0	U	0.18	3.0
630-20-6	1,1,1,2-Tetrachloroethane	3.0	U	0.24	3.0
100-41-4	**Ethylbenzene**	**15**	**D**	**1.1**	**3.0**
1330-20-7	**m,p-Xylene**	**6.0**	**D**	**2.1**	**3.0**
95-47-6	o-Xylene	3.0	U	0.18	3.0
1330-20-7	**Xylene (Total)**	**6.0**	**D**	**1.0**	**3.0**
100-42-5	Styrene	3.0	U	0.36	3.0
75-25-2	Bromoform	3.0	U	0.78	3.0
98-82-8	**Isopropylbenzene**	**8.1**	**D**	**0.96**	**3.0**
79-34-5	1,1,2,2-Tetrachloroethane	3.0	U	0.78	3.0
108-86-1	Bromobenzene	3.0	U	0.36	3.0
96-18-4	1,2,3-Trichloropropane	3.0	U	0.54	3.0
103-65-1	**n-Propylbenzene**	**13**	**D**	**0.30**	**3.0**
95-49-8	2-Chlorotoluene	3.0	U	0.36	3.0
108-67-8	**1,3,5-Trimethylbenzene**	**9.5**	**D**	**0.18**	**3.0**
106-43-4	4-Chlorotoluene	3.0	U	0.30	3.0
98-06-6	tert-Butylbenzene	3.0	U	0.42	3.0
95-63-6	**1,2,4-Trimethylbenzene**	**100**	**D**	**0.24**	**3.0**
135-98-8	**sec-Butylbenzene**	**9.2**	**D**	**0.24**	**3.0**
99-87-6	**4-Isopropyltoluene**	**7.1**	**D**	**0.18**	**3.0**
541-73-1	1,3-Dichlorobenzene	3.0	U	0.36	3.0
106-46-7	1,4-Dichlorobenzene	3.0	U	0.42	3.0
104-51-8	**n-Butylbenzene**	**11**	**D**	**0.30**	**3.0**
95-50-1	1,2-Dichlorobenzene	3.0	U	1.2	3.0
96-12-8	1,2-Dibromo-3-chloropropane	3.0	U	1.3	3.0
120-82-1	1,2,4-Trichlorobenzene	3.0	U	2.3	3.0
87-68-3	Hexachlorobutadiene	3.0	U	2.1	3.0
87-61-6	1,2,3-Trichlorobenzene	3.0	U	3.0	3.0
91-20-3	**Naphthalene**	**21**	**D**	**2.5**	**3.0**

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D
Date : 28-JAN-2005 17:29
Client ID: CEF-CS1A-01DL
Sample Info: ,D0058-07ADL,,16653,6
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D
Report Date: 01-Feb-2005 13:03

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D
Lab Smp Id: D0058-07ADL Client Smp ID: CEF-CS1A-01DL
Inj Date : 28-JAN-2005 17:29
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-07ADL,,16653,6
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 13
Dil Factor: 6.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	6.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.050	6.049	(0.887)	593466	4.66968	5
$ 23 1,2-Dichloroethane-d4	102	6.423	6.422	(0.942)	77972	4.36495	4
* 26 Fluorobenzene	96	6.819	6.810	(1.000)	2151248	5.00000	
$ 33 Toluene-d8	98	8.691	8.691	(1.275)	2202680	5.17183	5
* 43 Chlorobenzene-d5	117	10.533	10.524	(1.000)	1119472	5.00000	
46 Ethylbenzene	106	10.712	10.703	(1.017)	347743	2.49370	15
47 m,p-Xylene	106	10.859	10.851	(1.031)	166300	1.00533	6
M 60 Xylene (Total)	106				166300	1.00533	6
51 Isopropylbenzene	105	11.807	11.806	(0.885)	484062	1.34527	8
$ 52 Bromofluorobenzene	95	11.986	11.977	(1.138)	558503	4.73072	5
56 n-Propylbenzene	120	12.297	12.296	(0.922)	215533	2.08668	12(Q)
58 1,3,5-Trimethylbenzene	105	12.507	12.506	(0.938)	485894	1.58197	9
62 1,2,4-Trimethylbenzene	105	12.950	12.949	(0.971)	4718132	16.9384	100
63 sec-Butylbenzene	105	13.152	13.143	(0.986)	553642	1.54121	9
65 4-Isopropyltoluene	119	13.315	13.314	(0.998)	325898	1.18944	7
* 66 1,4-Dichlorobenzene-d4	152	13.338	13.337	(1.000)	421532	5.00000	(Q)

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D
Report Date: 01-Feb-2005 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
68 n-Butylbenzene	91	13.773	13.780	(1.033)	430917	1.90287	11(Q)
73 Naphthalene	128	15.809	15.808	(1.185)	206742	3.54275	21

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

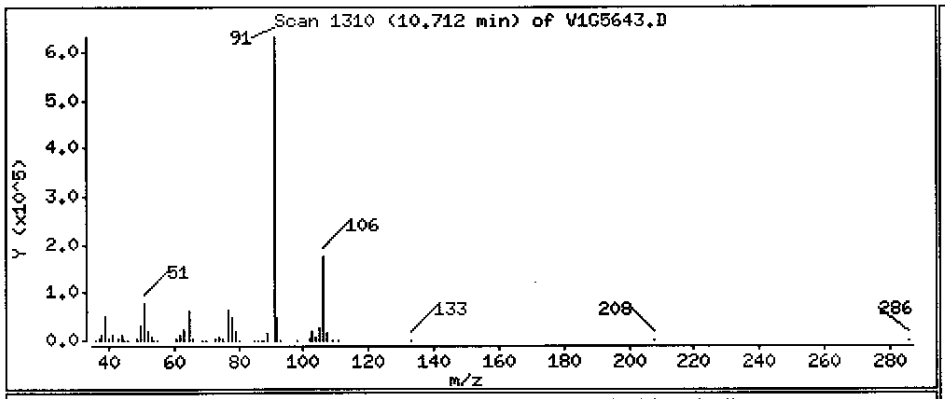
Client ID: CEF-CS1A-01DL | Instrument: v1.i

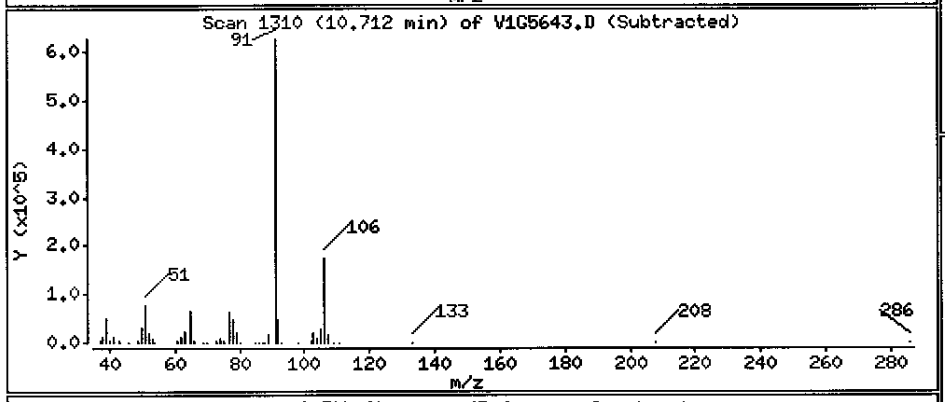
Sample Info: ,D0058-07ADL,,16653,6

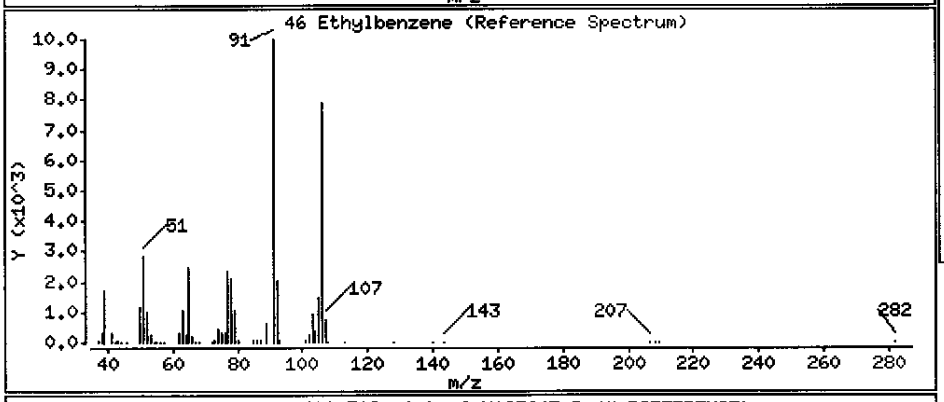
Purge Volume: 25.0 | Operator: MS SRC: LIMS

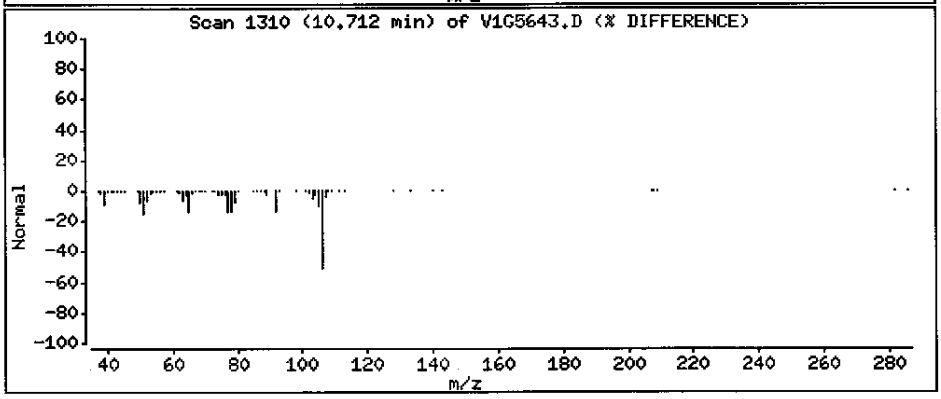
Column phase: DB-624 | Column diameter: 0.25

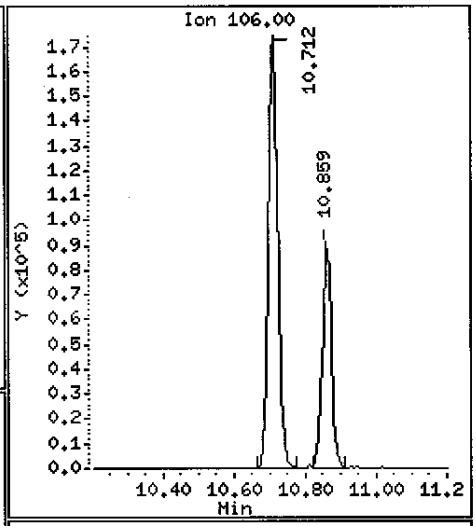
46 Ethylbenzene | Concentration: 15 ug/L

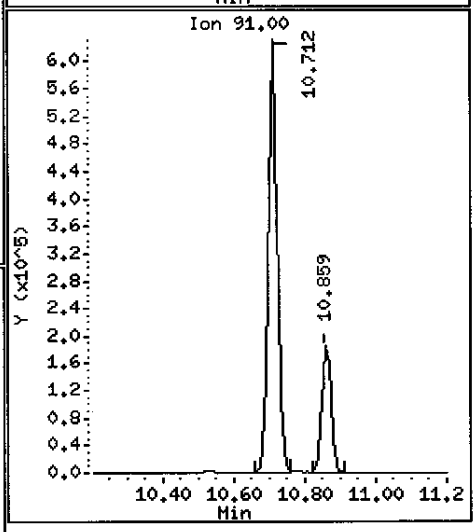












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Date : 28-JAN-2005 17:29

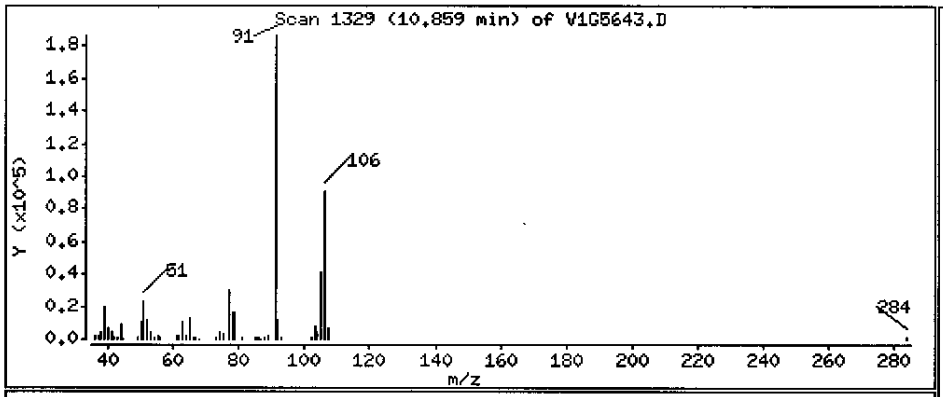
Client ID: CEF-CS1A-01DL | Instrument: v1.i

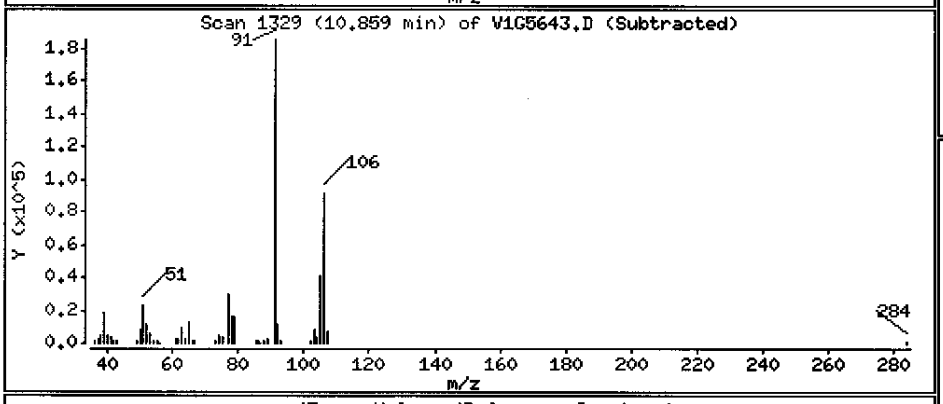
Sample Info: ,D0058-07ADL,,16653,6

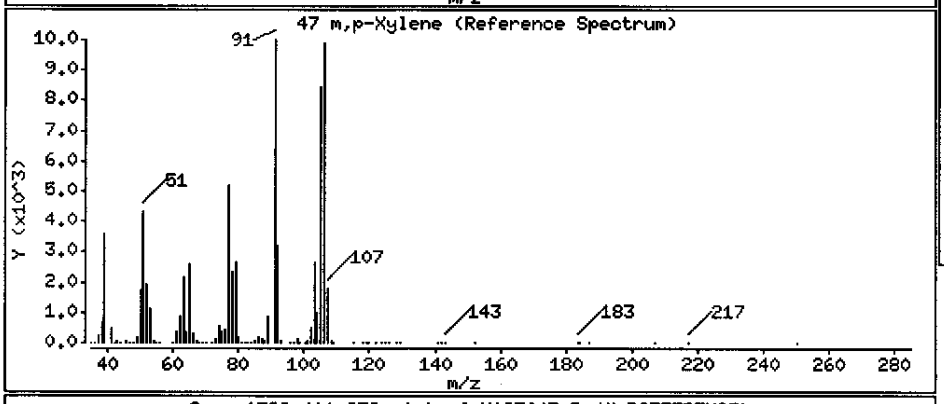
Purge Volume: 25.0 | Operator: MS SRC: LIMS

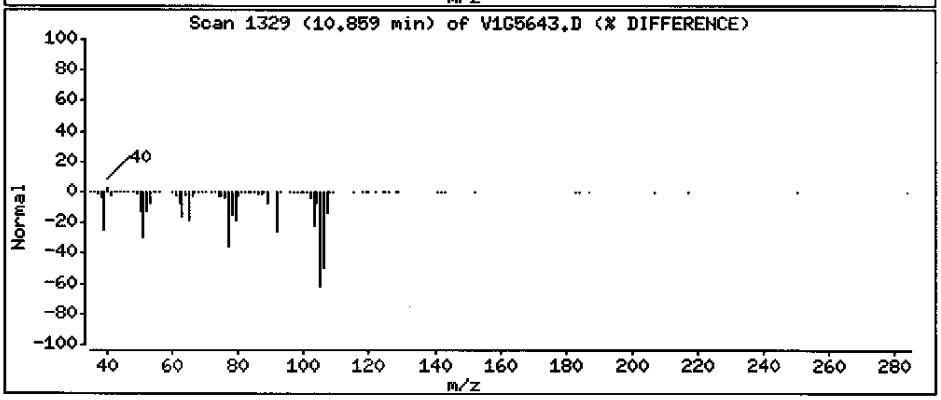
Column phase: DB-624 | Column diameter: 0.25

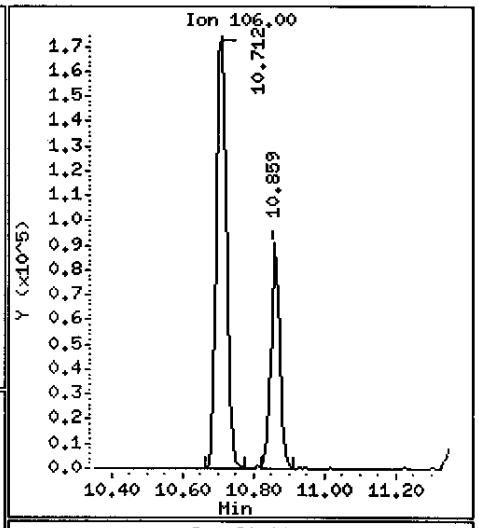
47 m,p-Xylene | Concentration: 6 ug/L

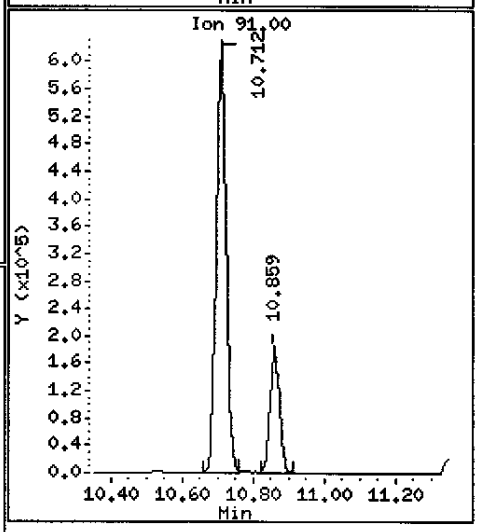












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Date : 28-JAN-2005 17:29

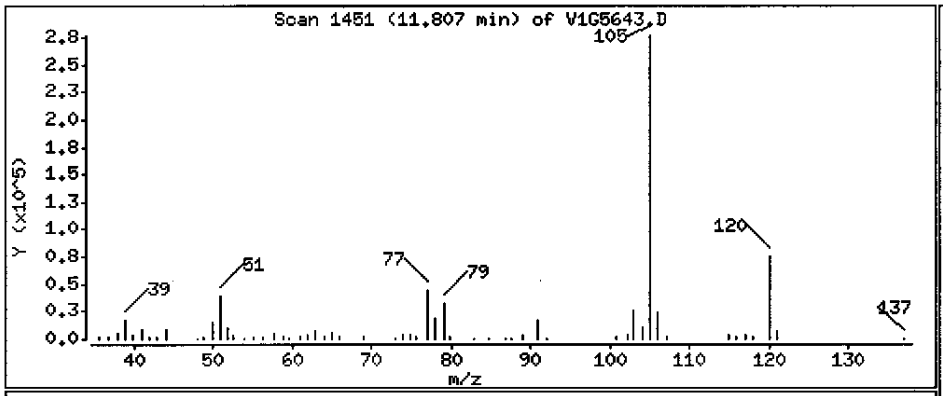
Client ID: CEF-CS1A-01DL | Instrument: v1.i

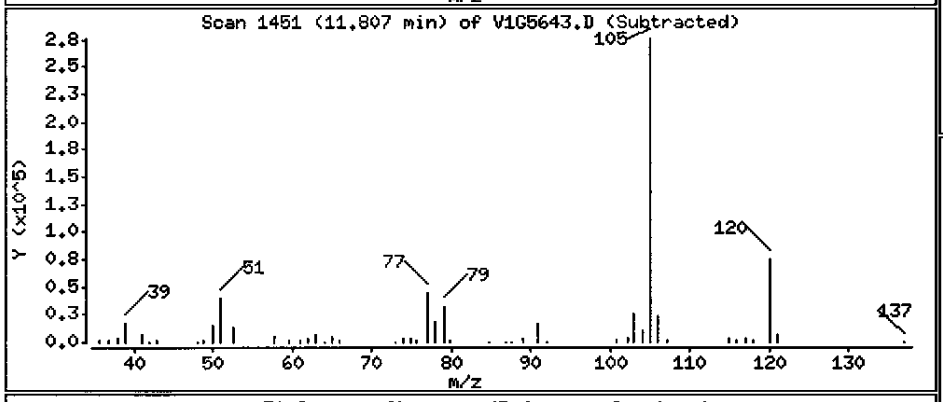
Sample Info: ,D0058-07ADL,,16653,6

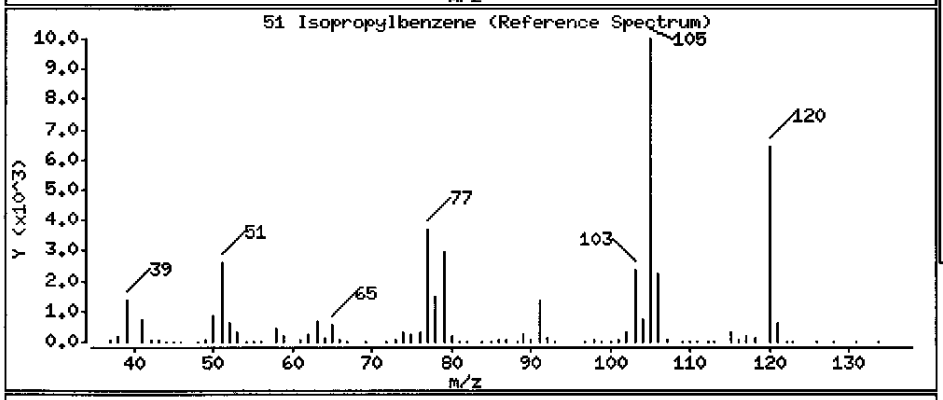
Purge Volume: 25.0 | Operator: MS SRC: LIMS

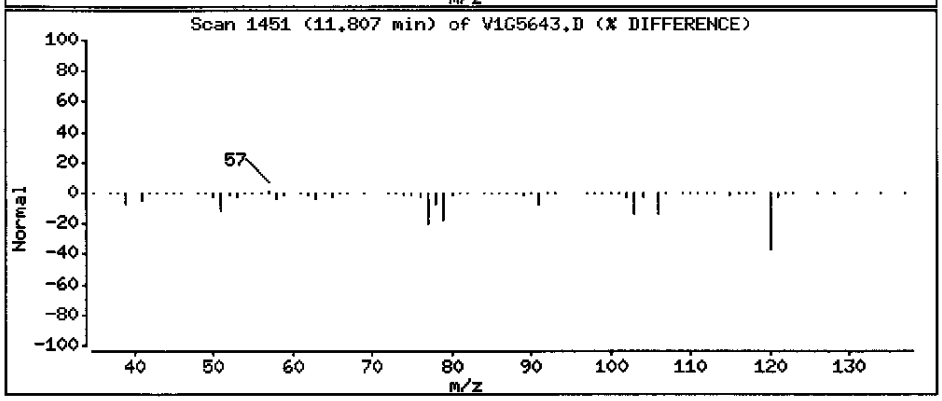
Column phase: DB-624 | Column diameter: 0.25

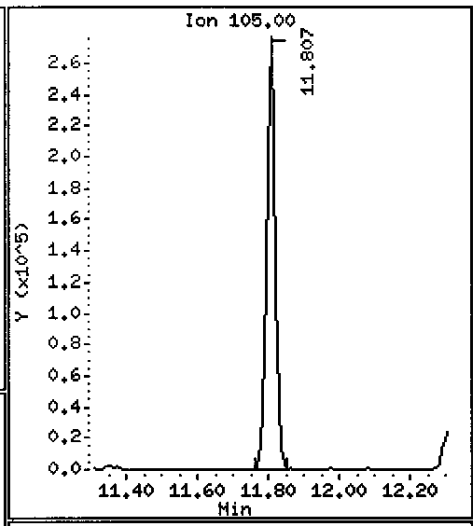
51 Isopropylbenzene | Concentration: 8 ug/L

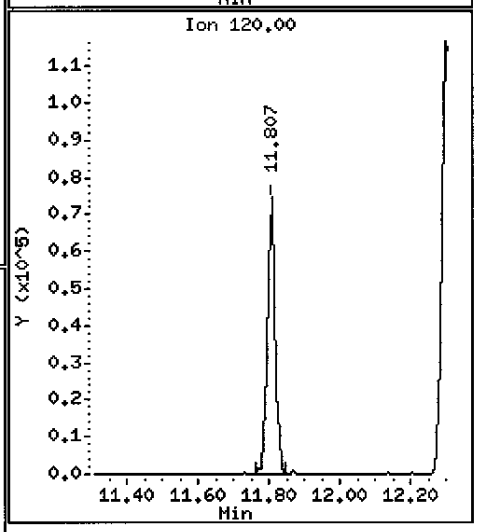












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Date : 28-JAN-2005 17:29

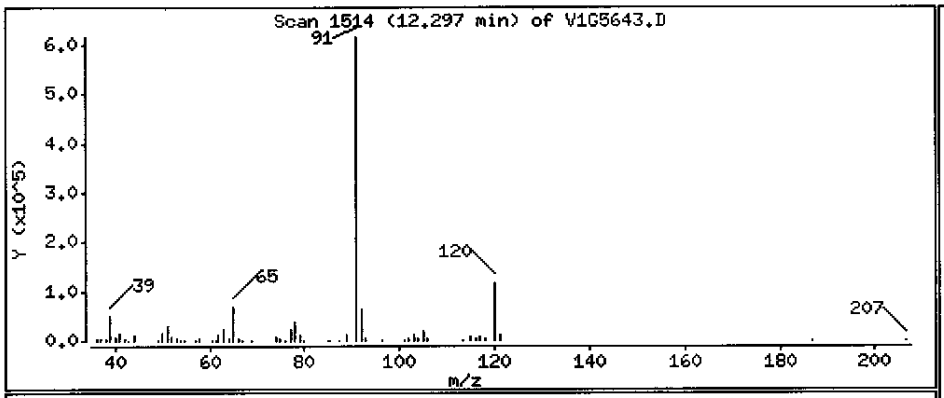
Client ID: CEF-CS1A-01DL | Instrument: v1.i

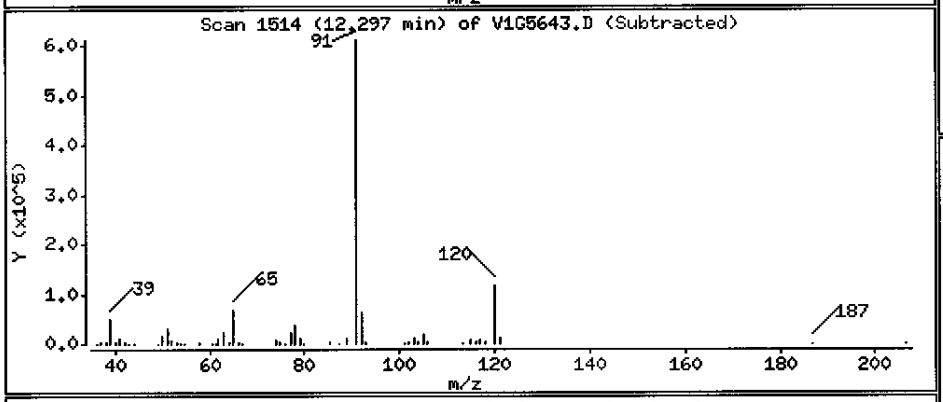
Sample Info: ,D0058-07ADL,,16653,6

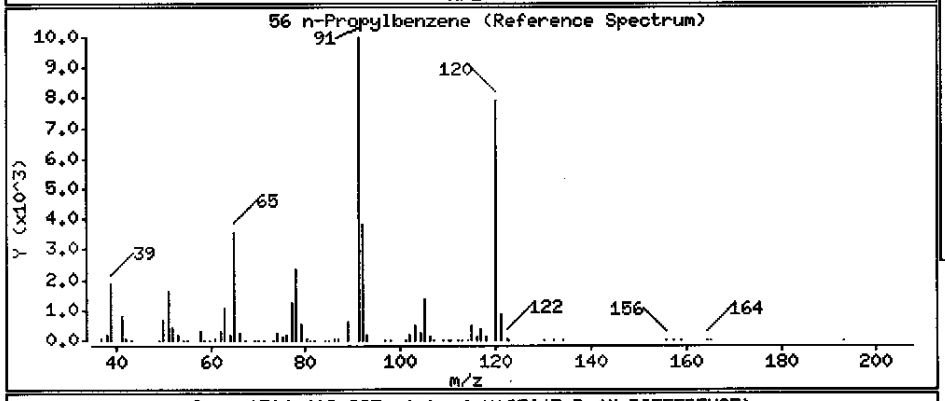
Purge Volume: 25.0 | Operator: MS SRC: LIMS

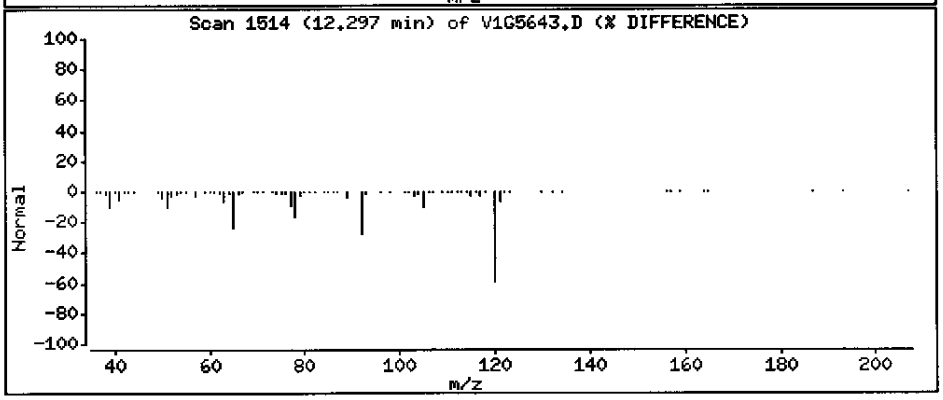
Column phase: DB-624 | Column diameter: 0.25

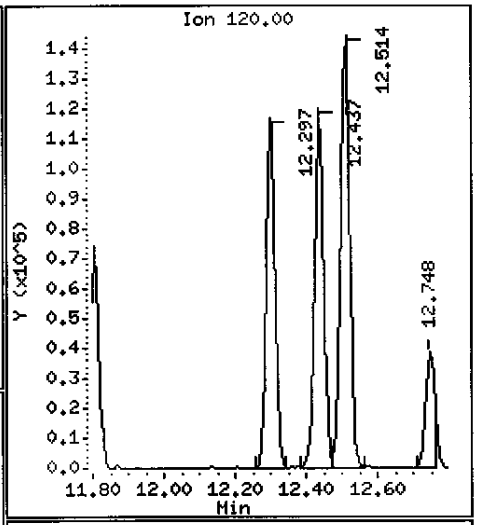
56 n-Propylbenzene | Concentration: 12 ug/L

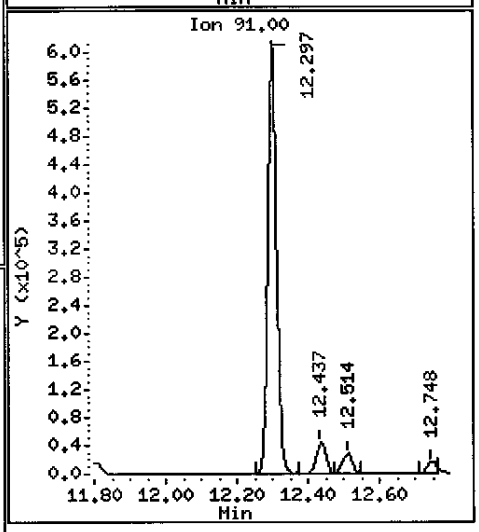












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Date : 28-JAN-2005 17:29

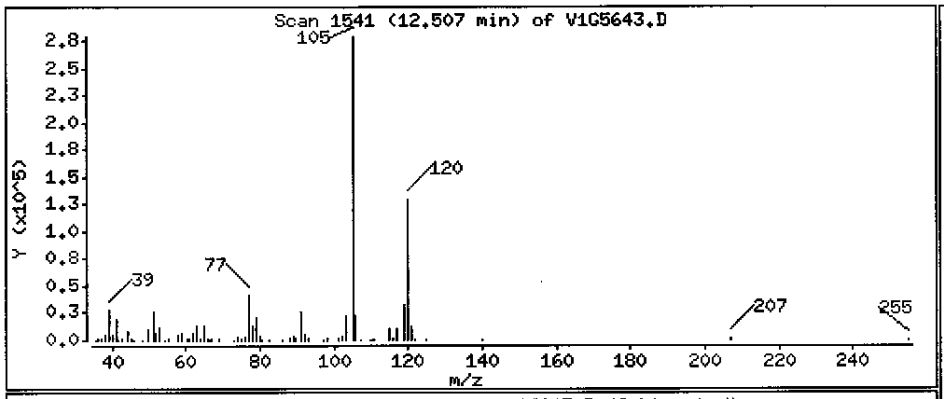
Client ID: CEF-CS1A-01DL | Instrument: v1.i

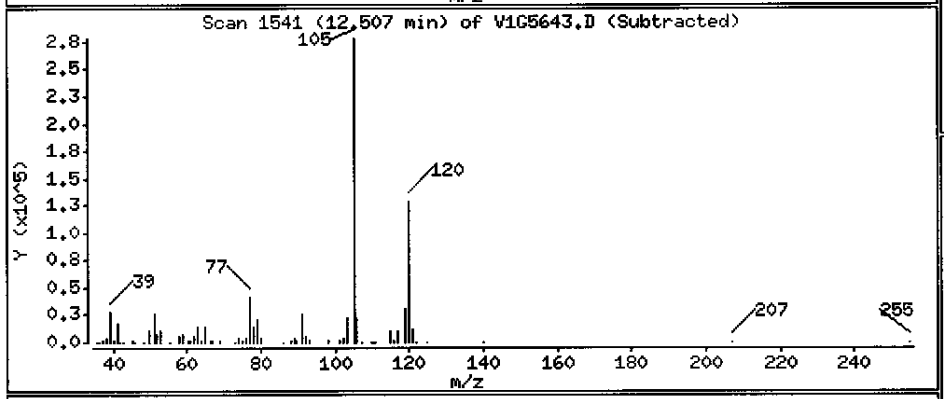
Sample Info: ,D0058-07ADL,,16653,6

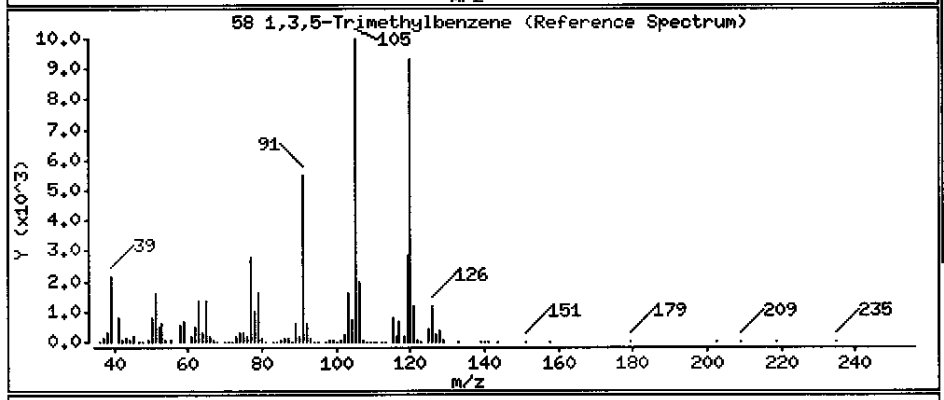
Purge Volume: 25.0 | Operator: MS SRC: LIMS

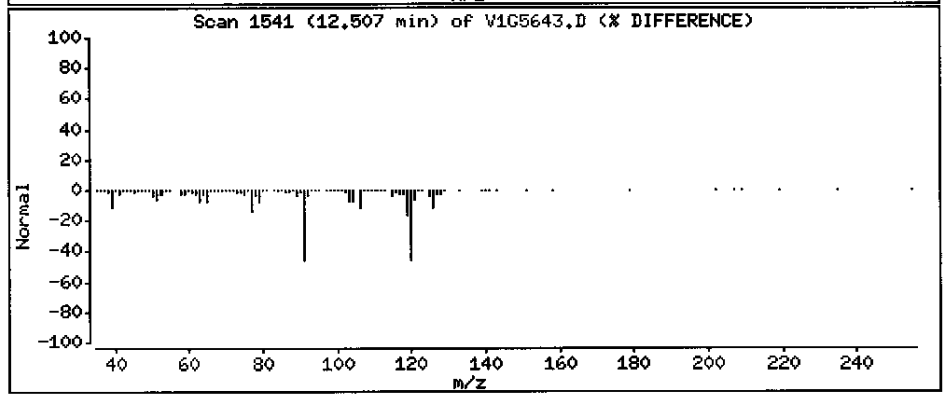
Column phase: DB-624 | Column diameter: 0.25

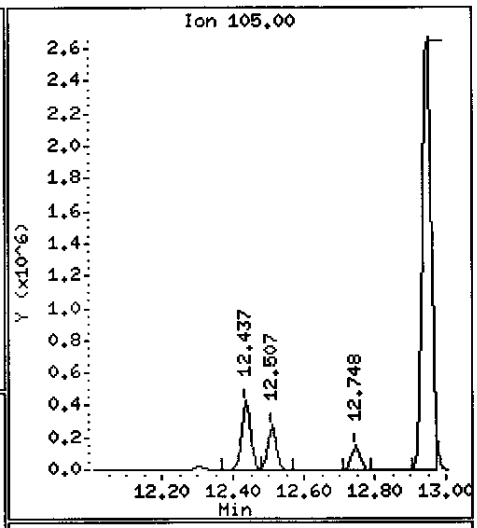
58 1,3,5-Trimethylbenzene | Concentration: 9 ug/L

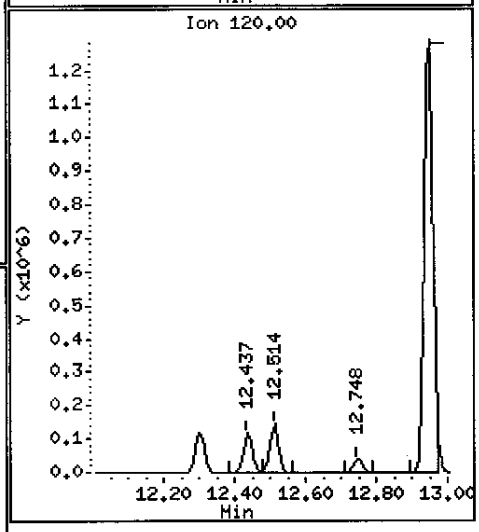












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

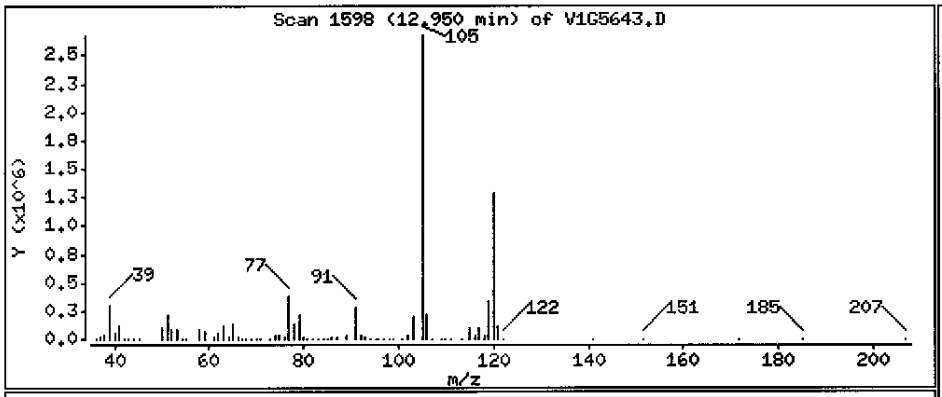
Client ID: CEF-CS1A-01DL | Instrument: v1.i

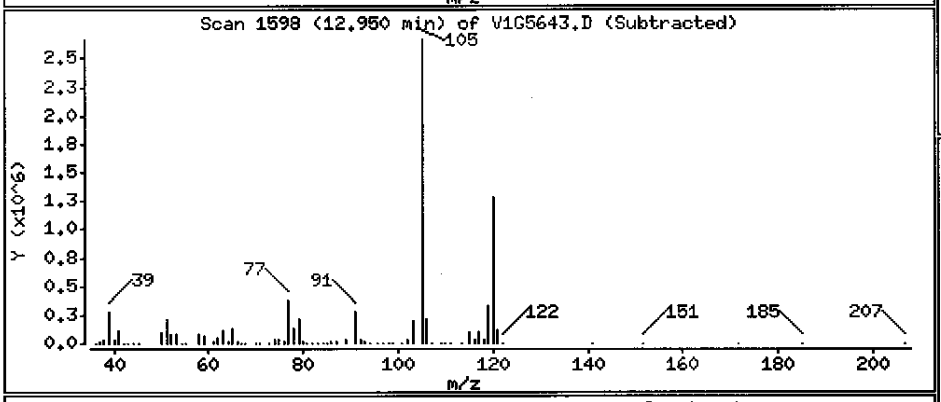
Sample Info: ,D0058-07ADL,,16653,6

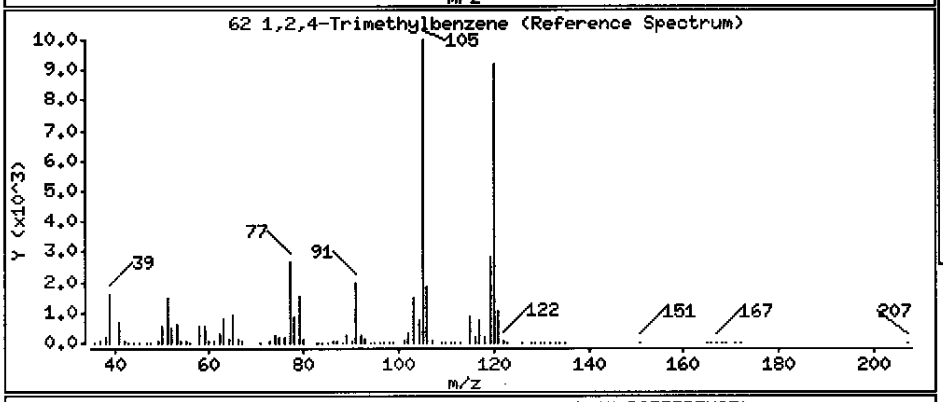
Purge Volume: 25.0 | Operator: MS SRC: LIMS

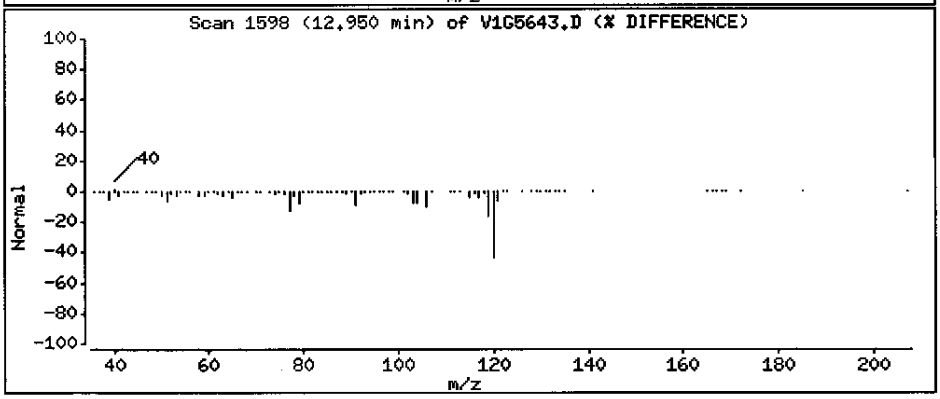
Column phase: DB-624 | Column diameter: 0.25

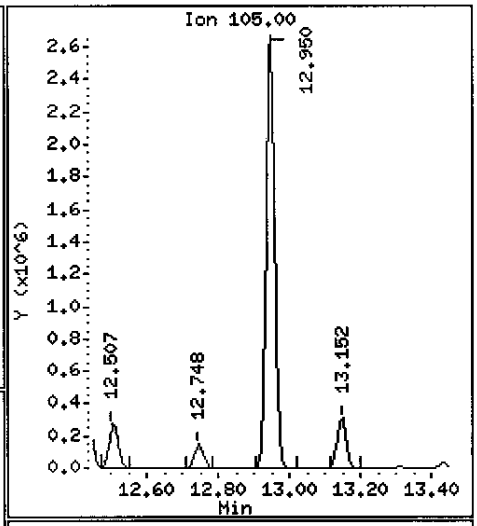
62 1,2,4-Trimethylbenzene | Concentration: 100 ug/L

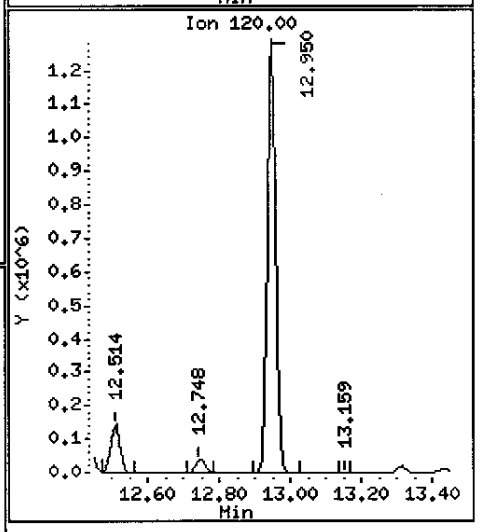












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

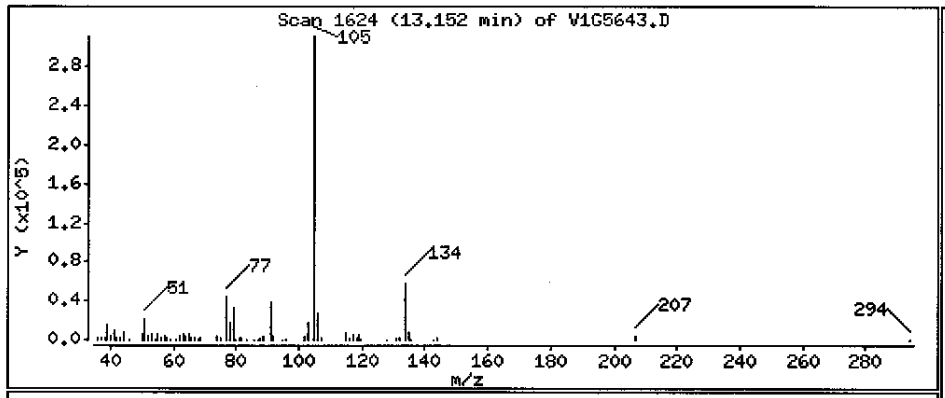
Client ID: CEF-CS1A-01DL | Instrument: v1.i

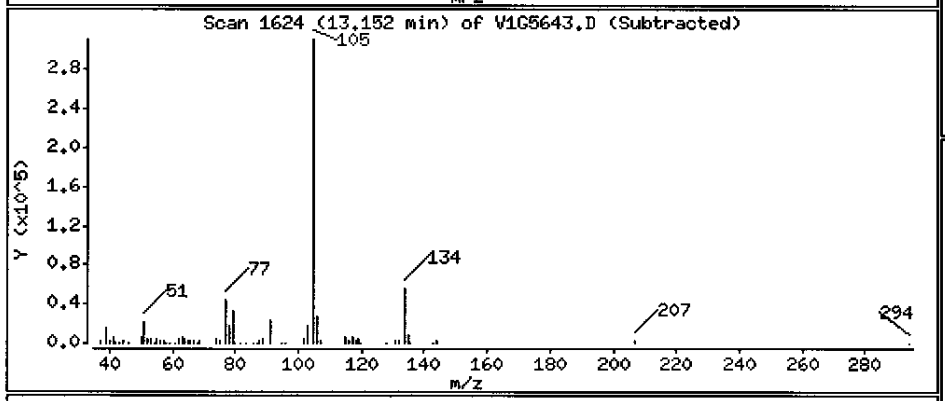
Sample Info: ,D0058-07ADL,,16653,6

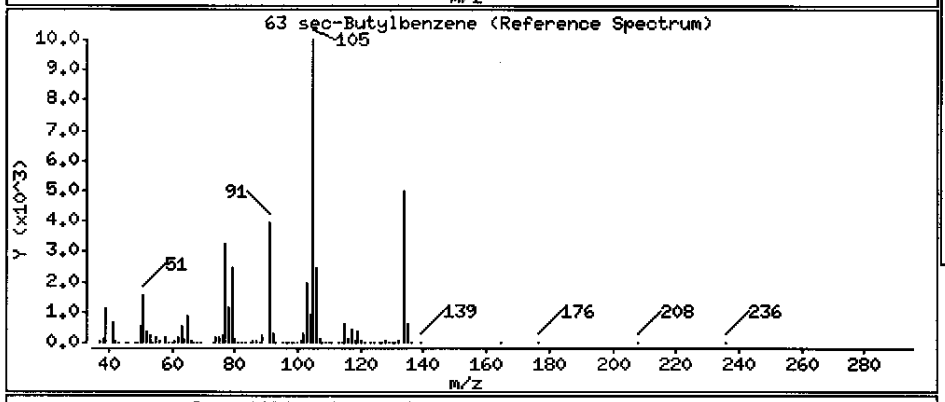
Purge Volume: 25.0 | Operator: MS SRC: LIMS

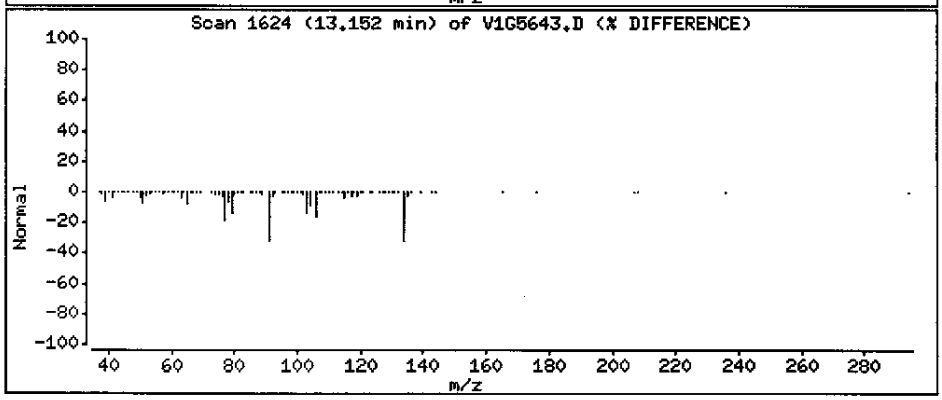
Column phase: DB-624 | Column diameter: 0.25

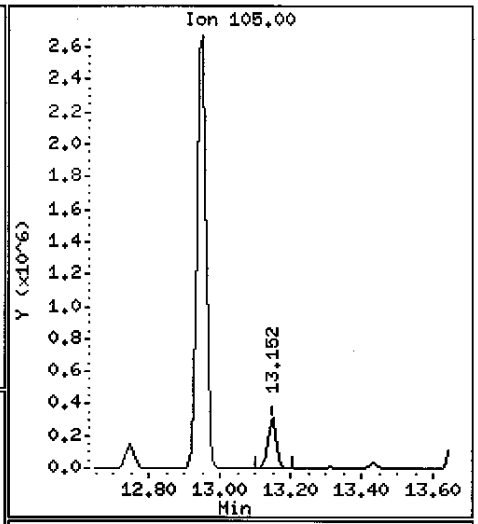
63 sec-Butylbenzene | Concentration: 9 ug/L

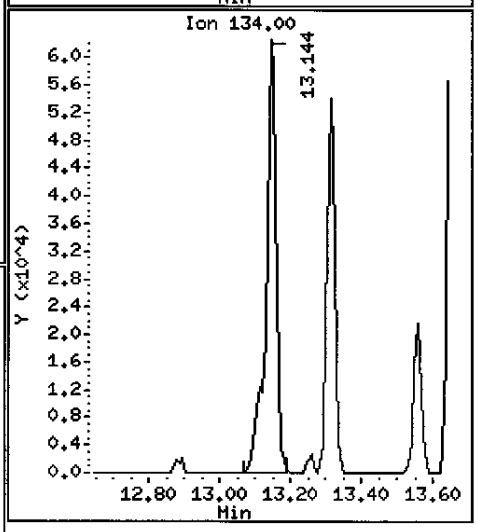












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

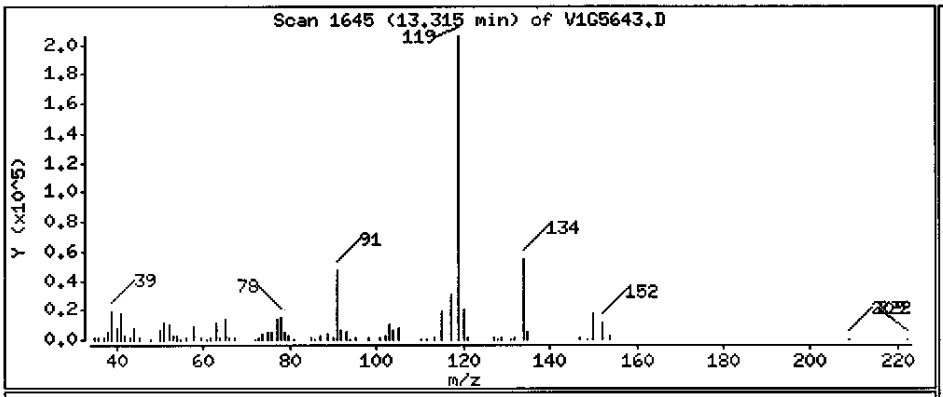
Client ID: CEF-CS1A-01DL | Instrument: v1.i

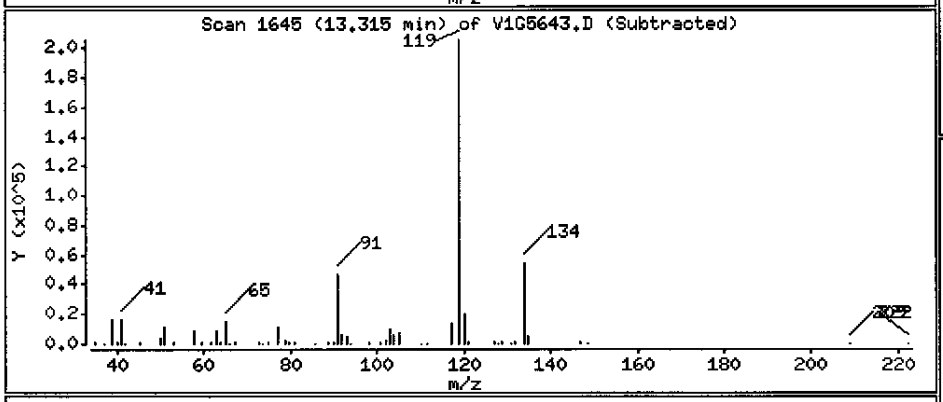
Sample Info: ,D0058-07ADL,,16653,6

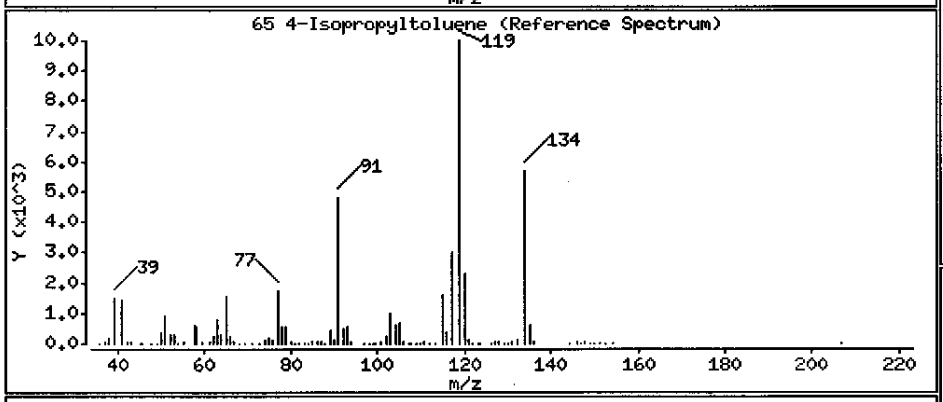
Purge Volume: 25.0 | Operator: MS SRC: LIMS

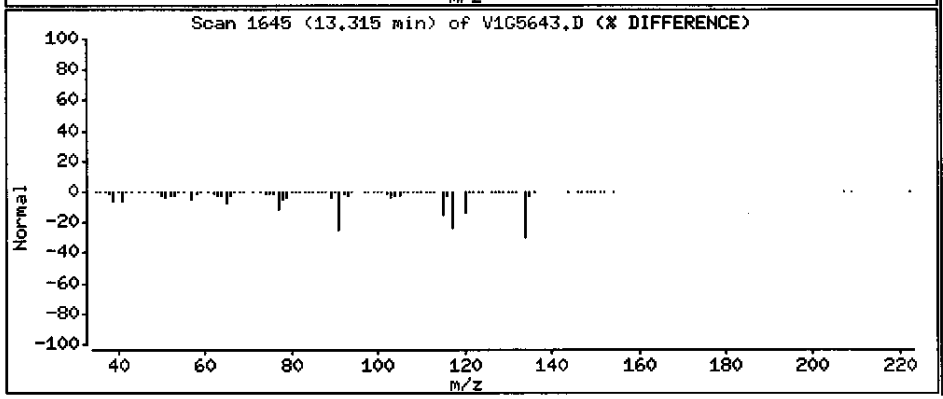
Column phase: DB-624 | Column diameter: 0.25

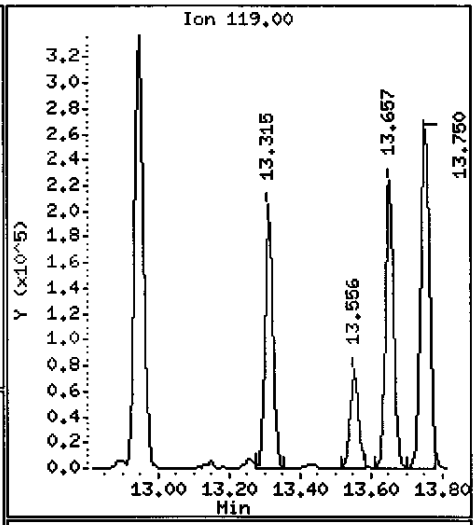
65 4-Isopropyltoluene | Concentration: 7 ug/L

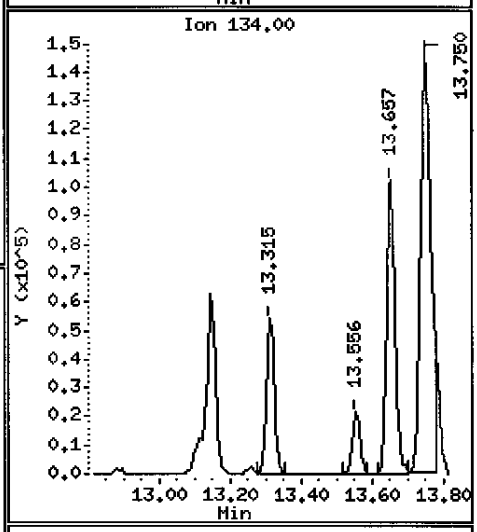


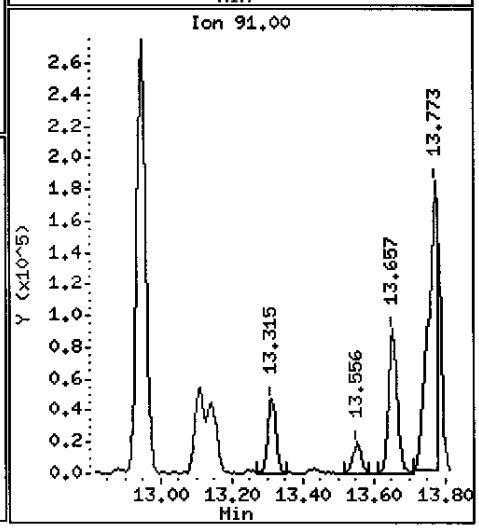












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

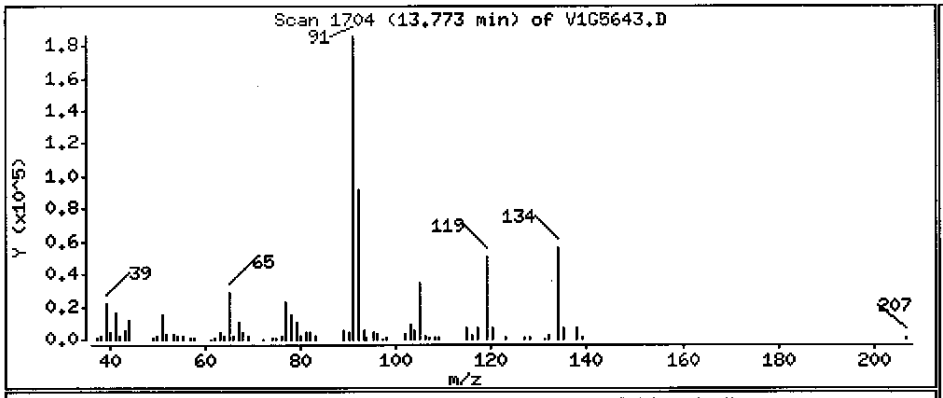
Client ID: CEF-CS1A-01DL | Instrument: v1.i

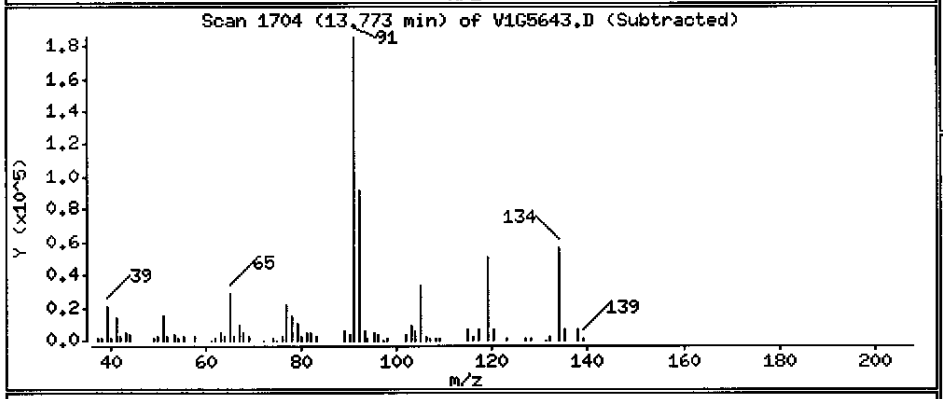
Sample Info: ,D0058-07ADL,,16653,6

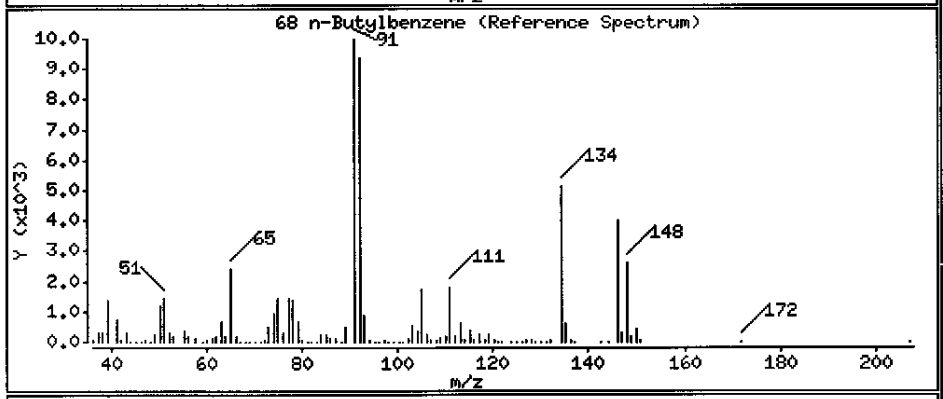
Purge Volume: 25.0 | Operator: MS SRC: LIMS

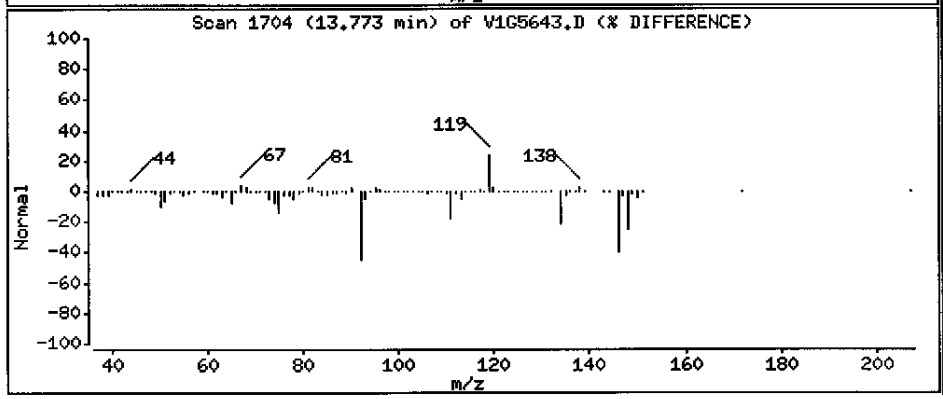
Column phase: DB-624 | Column diameter: 0.25

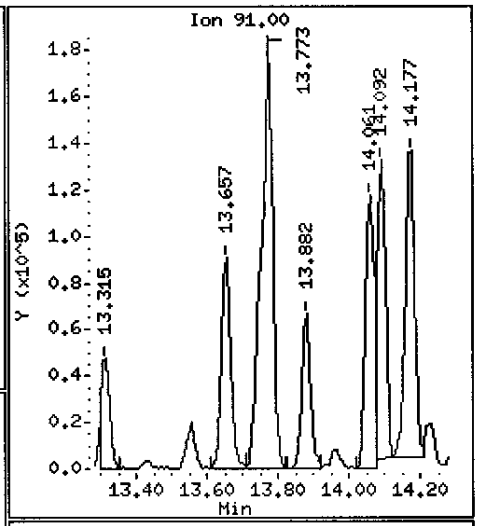
68 n-Butylbenzene | Concentration: 11 ug/L

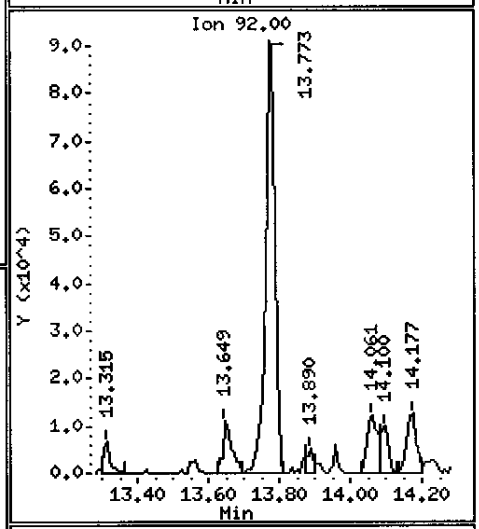


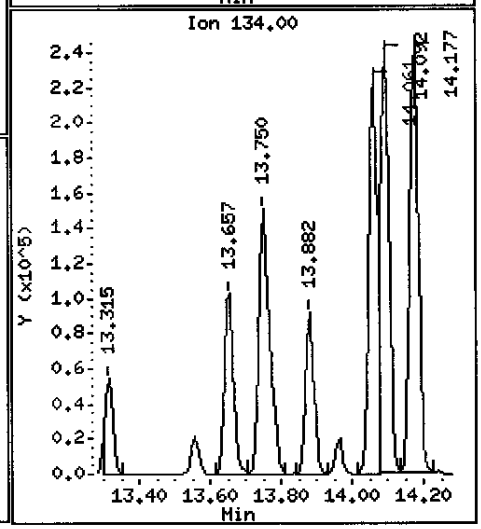












Data File: \\AVOGADRO\ORGANICS\organic\woa\V1.i\050128.B\V1G5643.D

Date : 28-JAN-2005 17:29

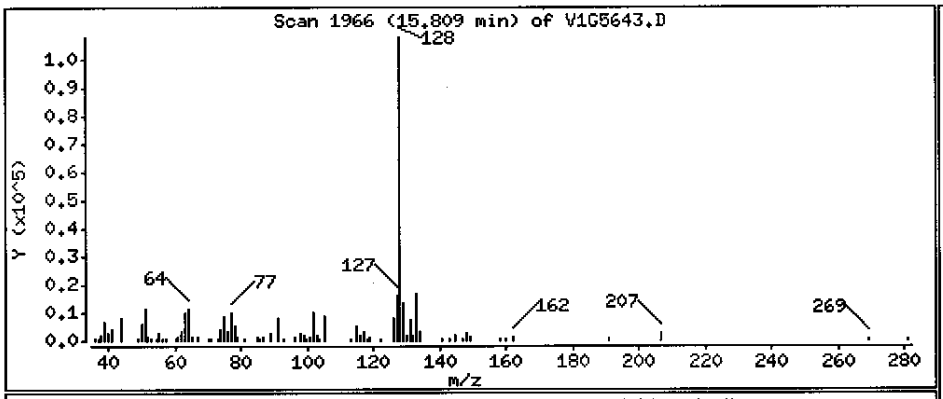
Client ID: CEF-CS1A-01DL | Instrument: v1.i

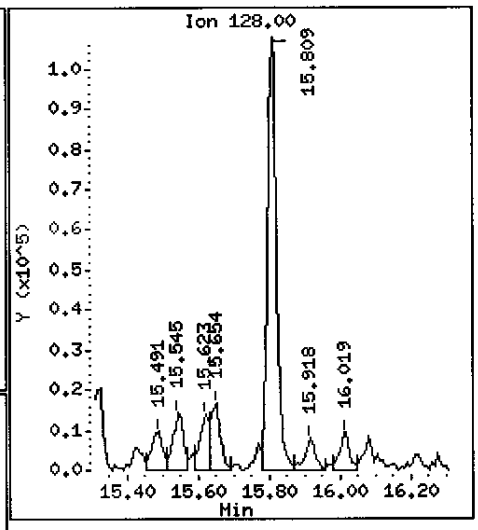
Sample Info: ,D0058-07ADL,,16653,6

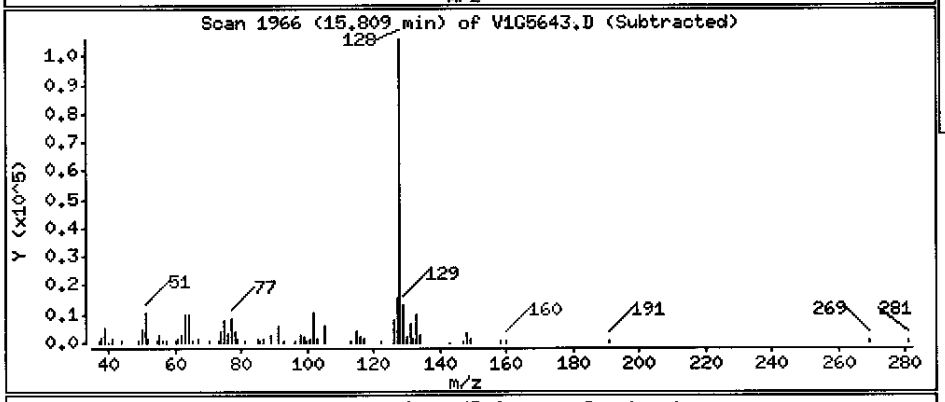
Purge Volume: 25.0 | Operator: MS SRC: LIMS

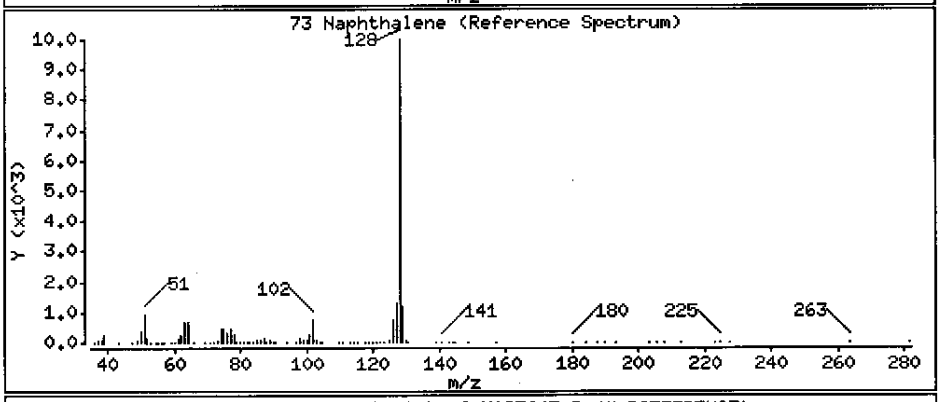
Column phase: DB-624 | Column diameter: 0.25

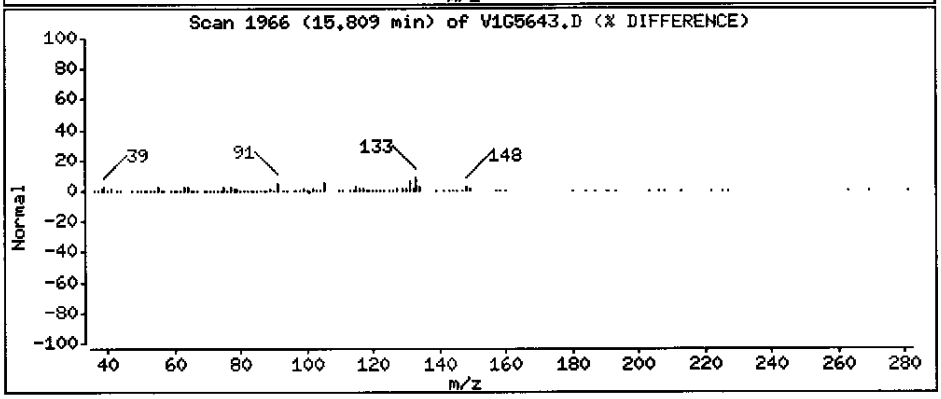
73 Naphthalene | Concentration: 21 ug/L











1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5642.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 14:17

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 16:57

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5642.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 14:17

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 Time: 10:50

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/28/05 Time: 16:57

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

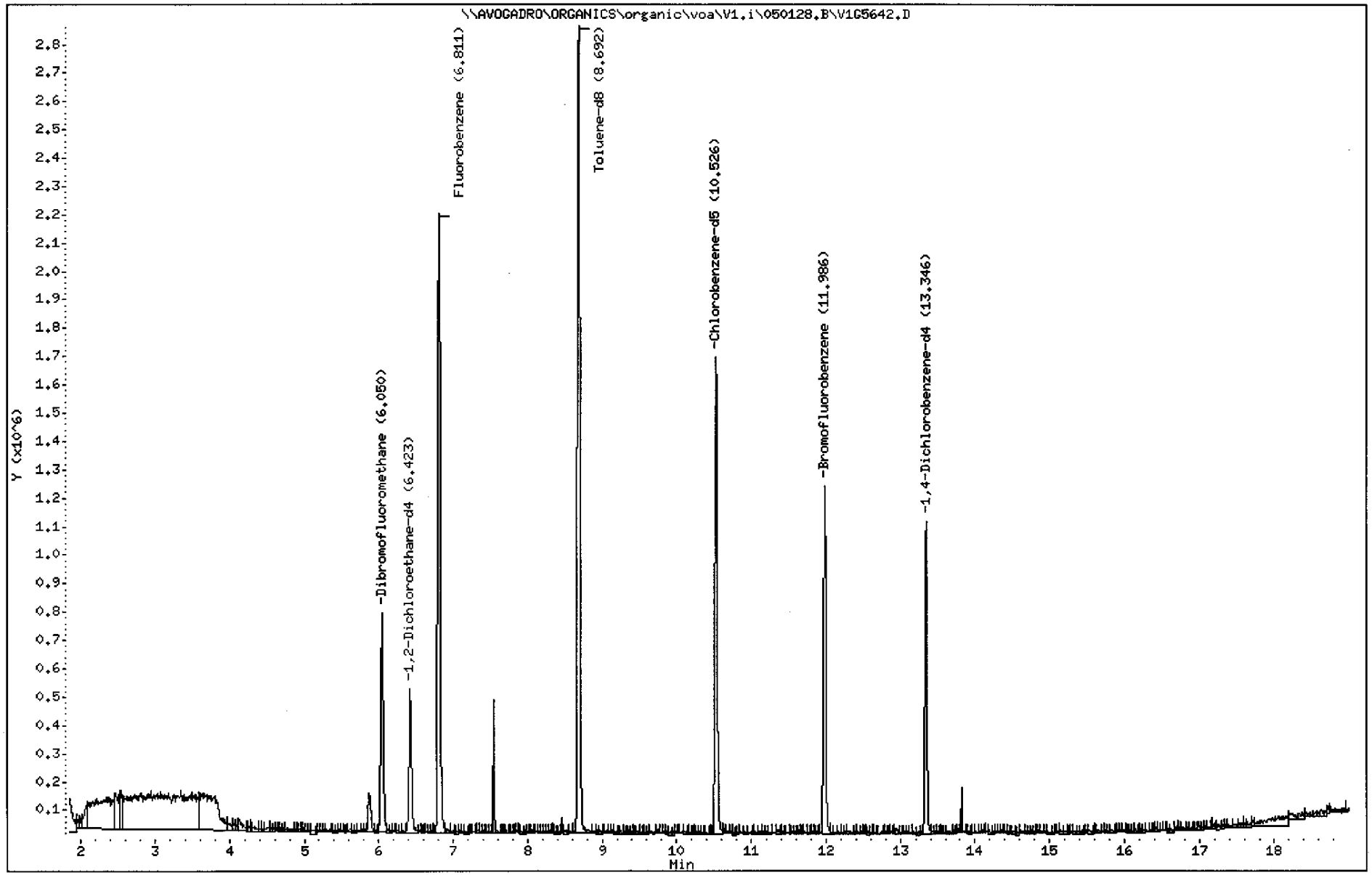
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5642.D
Date : 28-JAN-2005 16:57
Client ID: CEF-CS10-01
Sample Info: ,D0058-08A,,16653
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5642.D
Report Date: 01-Feb-2005 13:03

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5642.D
Lab Smp Id: D0058-08A Client Smp ID: CEF-CS10-01
Inj Date : 28-JAN-2005 16:57
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-08A,,16653
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D ✓
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub ✓
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.050	6.049	(0.888)	576516	4.46227	4
$ 23 1,2-Dichloroethane-d4	102	6.423	6.422	(0.943)	77905	4.29002	4
* 26 Fluorobenzene	96	6.811	6.810	(1.000)	2186941	5.00000	
$ 33 Toluene-d8	98	8.692	8.691	(1.276)	2204308	5.09118	5
* 43 Chlorobenzene-d5	117	10.526	10.524	(1.000)	1072461	5.00000	
$ 52 Bromofluorobenzene	95	11.986	11.977	(1.139)	481656	4.25864	4
* 66 1,4-Dichlorobenzene-d4	152	13.346	13.337	(1.000)	339730	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB
2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5615.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:19

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 18:57

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5615.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:19

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 18:57

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

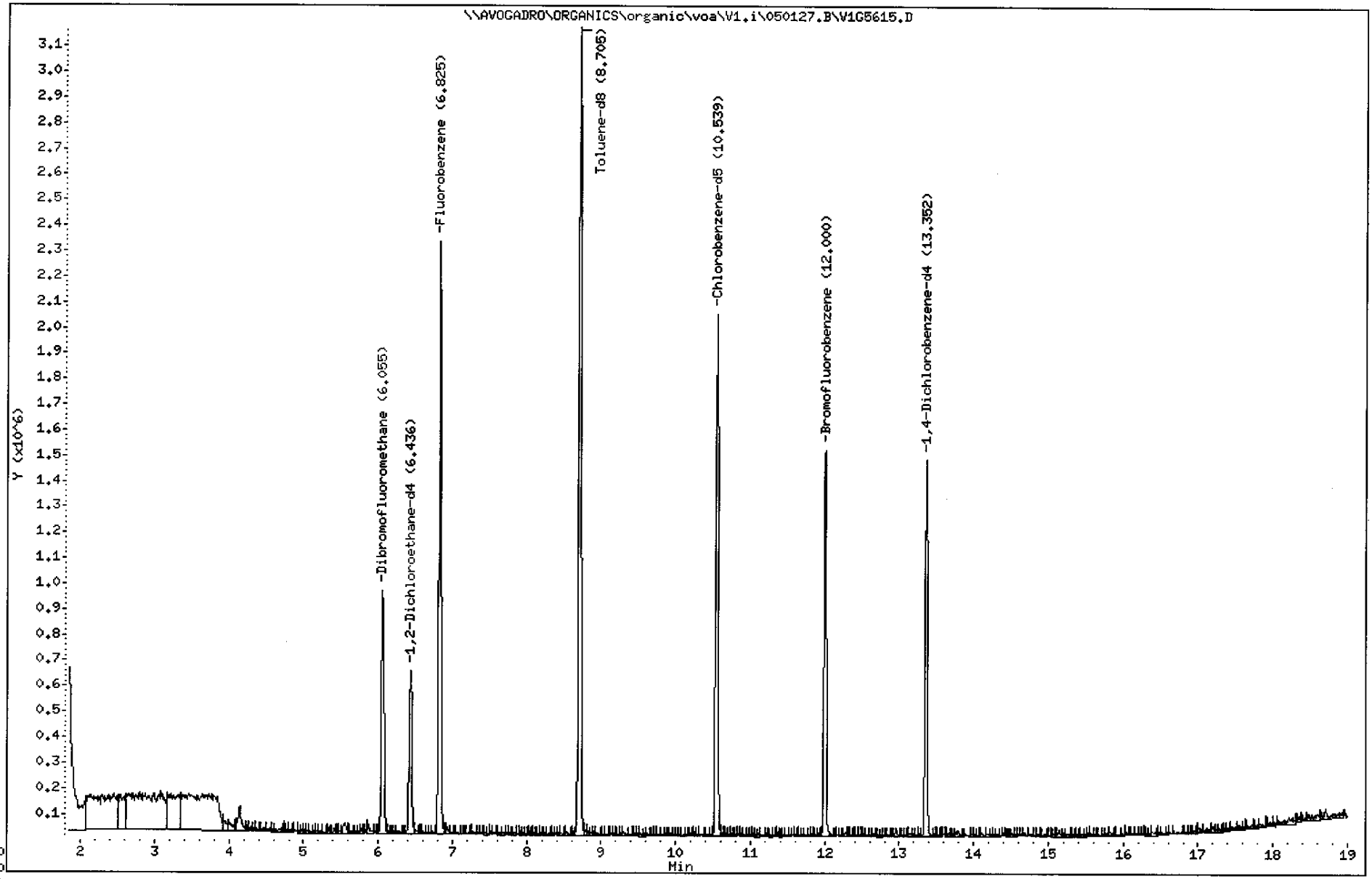
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5615.D
Date : 27-JAN-2005 18:57
Client ID: CEF-CS8-01
Sample Info: ,D0058-09A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0097

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5615.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5615.D
Lab Smp Id: D0058-09A Client Smp ID: CEF-CS8-01
Inj Date : 27-JAN-2005 18:57
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-09A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.055	6.090	(0.887)	707785	5.29377	5
$ 23 1,2-Dichloroethane-d4	102	6.436	6.463	(0.943)	106359	5.65962	6
* 26 Fluorobenzene	96	6.825	6.860	(1.000)	2263174	5.00000	
$ 33 Toluene-d8	98	8.705	8.732	(1.276)	2410250	5.37932	5
* 43 Chlorobenzene-d5	117	10.539	10.566	(1.000)	1340785	5.00000	
$ 52 Bromofluorobenzene	95	12.000	12.011	(1.139)	616339	4.35889	4
* 66 1,4-Dichlorobenzene-d4	152	13.352	13.371	(1.000)	431941	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS9-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-10A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5616.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:48

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 19:29

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS9-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-10A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5616.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:48

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 19:29

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

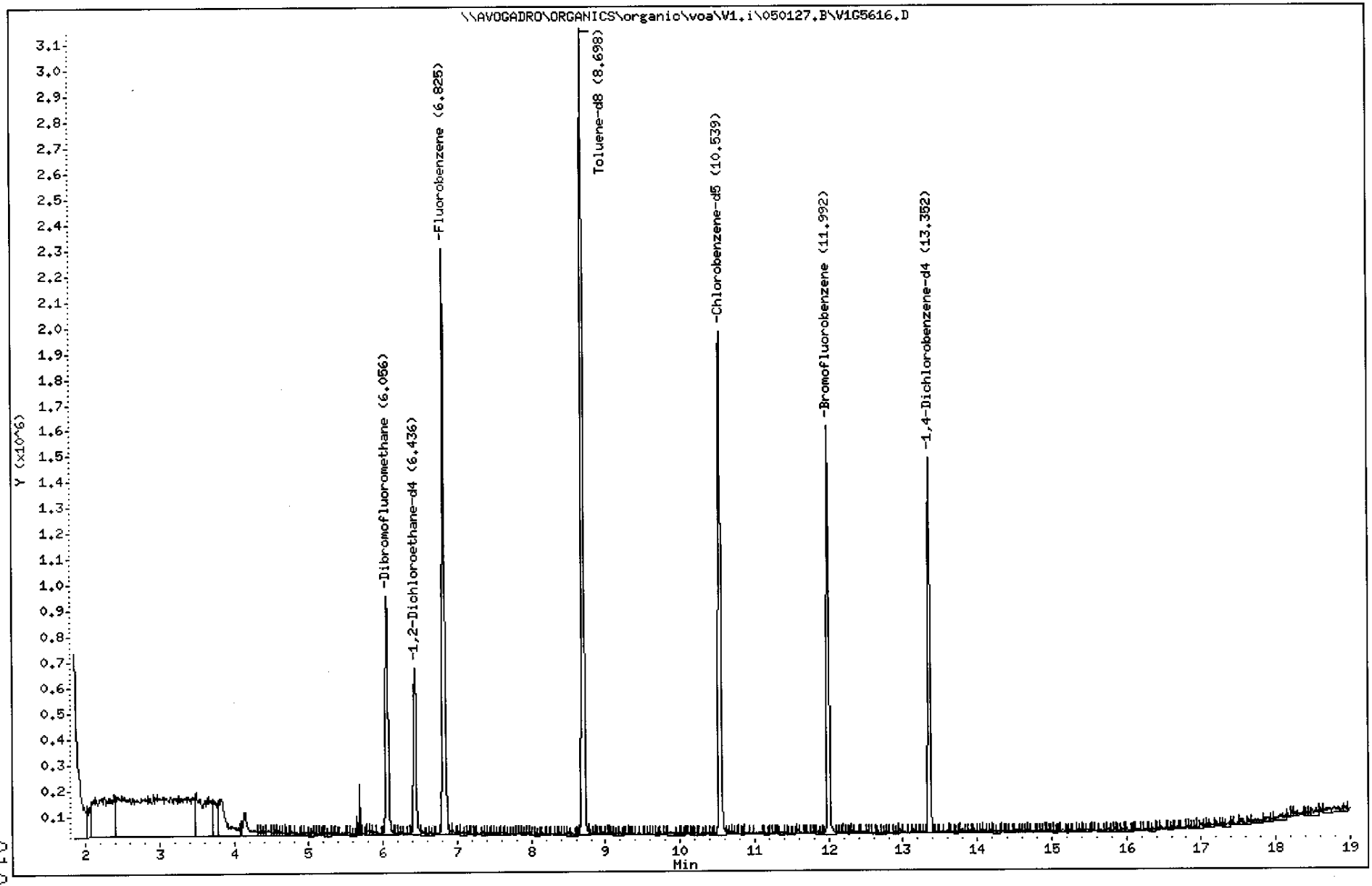
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5616.D
Date : 27-JAN-2005 19:29
Client ID: CEF-CS9-01
Sample Info: ,D0058-10A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0101

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5616.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5616.D
Lab Smp Id: D0058-10A Client Smp ID: CEF-CS9-01
Inj Date : 27-JAN-2005 19:29
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-10A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.056	6.090	(0.887)	682459	5.18143	5
$ 23 1,2-Dichloroethane-d4	102	6.436	6.463	(0.943)	107056	5.78273	6
* 26 Fluorobenzene	96	6.825	6.860	(1.000)	2229507	5.00000	
$ 33 Toluene-d8	98	8.698	8.732	(1.274)	2396083	5.42846	5
* 43 Chlorobenzene-d5	117	10.539	10.566	(1.000)	1292222	5.00000	
$ 52 Bromofluorobenzene	95	11.992	12.011	(1.138)	610042	4.47649	4
* 66 1,4-Dichlorobenzene-d4	152	13.352	13.371	(1.000)	419090	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB
2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11A

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5617.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 20:01

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	**Benzene**	**1.7**		**0.19**	**0.50**
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	**Toluene**	**0.87**		**0.020**	**0.50**
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-11A
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5617.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 0:00
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 25000 (µL)
Date Extracted: 01/27/05 Time: 10:14
Dil Fac: 1.00 Analyst: msztrall
Date Analyzed: 01/27/05 Time: 20:01
Prep Batch: 16639
Analytical Run: V1_050126B
Instrument ID: V1
TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

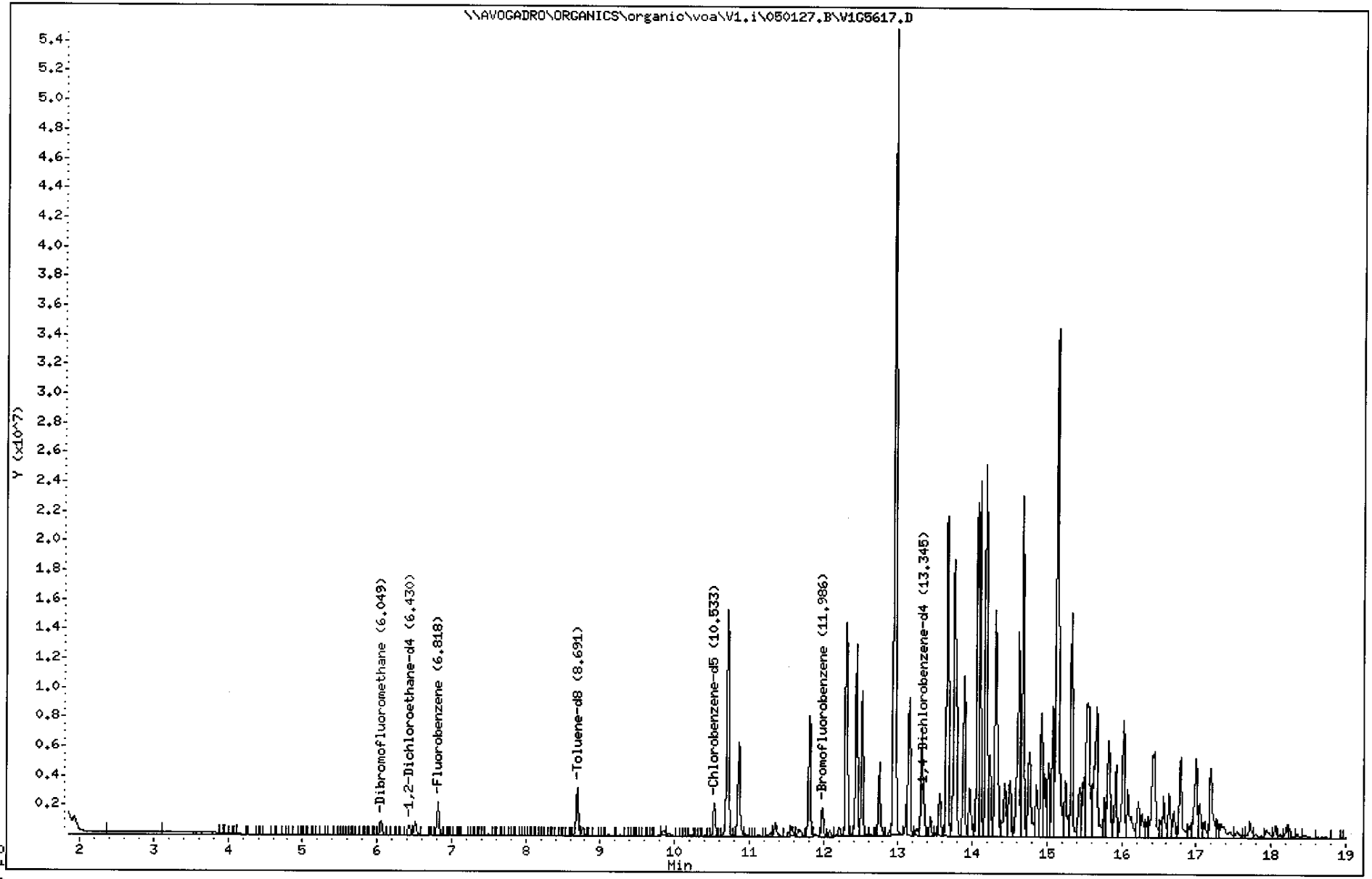
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	**Ethylbenzene**	**24**		**0.18**	**0.50**
1330-20-7	**m,p-Xylene**	**9.9**		**0.35**	**0.50**
95-47-6	**o-Xylene**	**1.0**		**0.030**	**0.50**
1330-20-7	**Xylene (Total)**	**11**		**0.17**	**0.50**
100-42-5	**Styrene**	**0.49**	**I**	**0.060**	**0.50**
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	**Isopropylbenzene**	**12**		**0.16**	**0.50**
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	**n-Propylbenzene**	**20**		**0.050**	**0.50**
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	**1,3,5-Trimethylbenzene**	**13**		**0.030**	**0.50**
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	**1,2,4-Trimethylbenzene**	**51**	**L**	**0.040**	**0.50**
135-98-8	**sec-Butylbenzene**	**14**		**0.040**	**0.50**
99-87-6	**4-Isopropyltoluene**	**12**		**0.030**	**0.50**
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	**n-Butylbenzene**	**19**		**0.050**	**0.50**
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	**Naphthalene**	**49**	**L**	**0.42**	**0.50**

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D
Date : 27-JAN-2005 20:01
Client ID: CEF-CSDUP-01
Sample Info: ,D0058-11A,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0105

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D
Lab Smp Id: D0058-11A Client Smp ID: CEF-CSDUP-01
Inj Date : 27-JAN-2005 20:01
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-11A,,16639
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.049	6.090	(0.887)	687556	5.18660	5
$ 23 1,2-Dichloroethane-d4	102	6.430	6.463	(0.943)	97703	5.24362	5
25 Benzene	78	6.508	6.549	(0.954)	937384	1.69113	2
* 26 Fluorobenzene	96	6.818	6.860	(1.000)	2243919	5.00000	
$ 33 Toluene-d8	98	8.691	8.732	(1.275)	2386049	5.37101	5
34 Toluene	91	8.777	8.818	(1.287)	426782	0.87301	0.9
* 43 Chlorobenzene-d5	117	10.533	10.566	(1.000)	1372236	5.00000	(H)
46 Ethylbenzene	106	10.711	10.745	(1.011)	4017992	23.5060	24
47 m,p-Xylene	106	10.859	10.892	(1.025)	1997276	9.85006	10(H)
48 o-Xylene	106	11.356	11.382	(1.072)	194434	1.01342	1(H)
M 60 Xylene (Total)	106				2191710	10.8635	11
49 Styrene	104	11.364	11.397	(1.073)	131088	0.49355	0.5(H)
51 Isopropylbenzene	105	11.807	11.833	(0.885)	6019342	11.7304	12
$ 52 Bromofluorobenzene	95	11.986	12.011	(1.131)	746882	5.16105	5(H)
56 n-Propylbenzene	120	12.304	12.330	(0.922)	3019143	20.4967	20(Q)
58 1,3,5-Trimethylbenzene	105	12.514	12.540	(0.938)	5639711	12.8757	13

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D
Report Date: 01-Feb-2005 11:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
62 1,2,4-Trimethylbenzene	105	12.941	12.975	(0.970)	20299105	51.1018	51(AQ)
63 sec-Butylbenzene	105	13.151	13.177	(0.985)	6959767	13.5858	14(H)
65 4-Isopropyltoluene	119	13.314	13.340	(0.998)	4652339	11.9066	12
* 66 1,4-Dichlorobenzene-d4	152	13.345	13.371	(1.000)	601136	5.00000	(Q)
68 n-Butylbenzene	91	13.781	13.806	(1.033)	6062079	18.7713	19(Q)
73 Naphthalene	128	15.816	15.834	(1.185)	4052467	48.6956	49(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

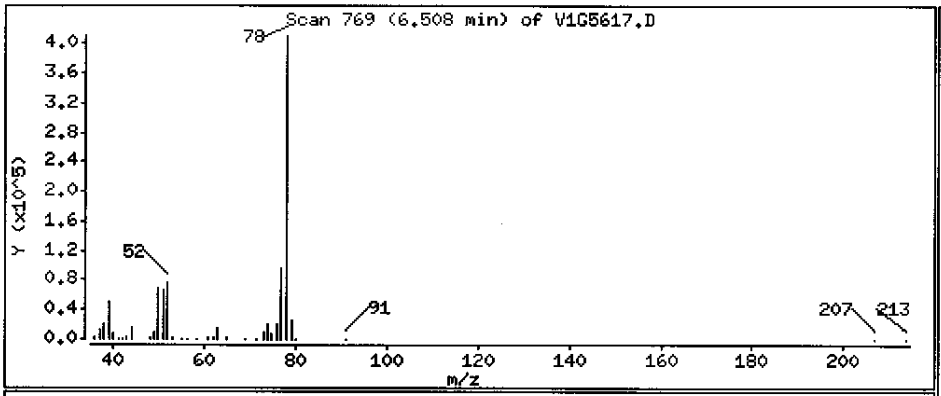
Client ID: CEF-CSDUP-01 Instrument: v1.i

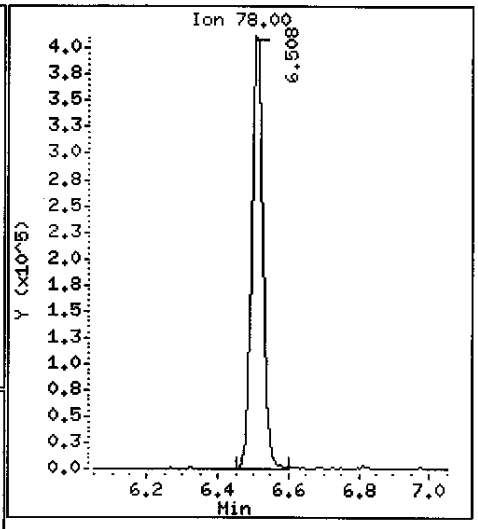
Sample Info: ,D0058-11A,,16639

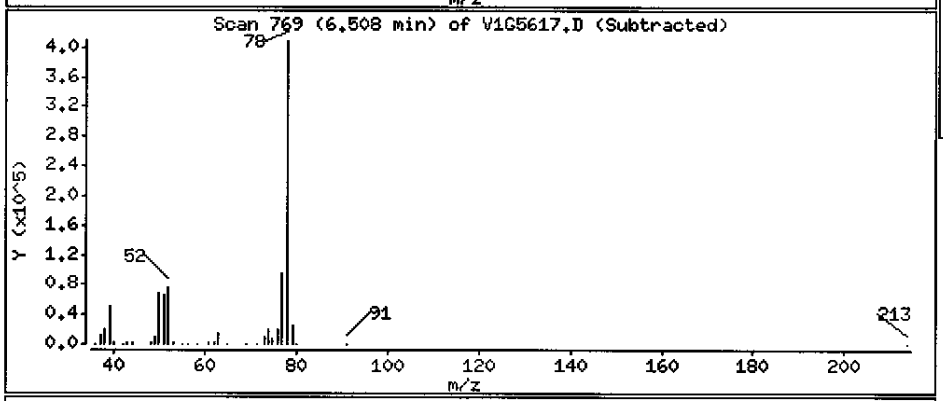
Purge Volume: 25.0 Operator: MS SRC: LIMS

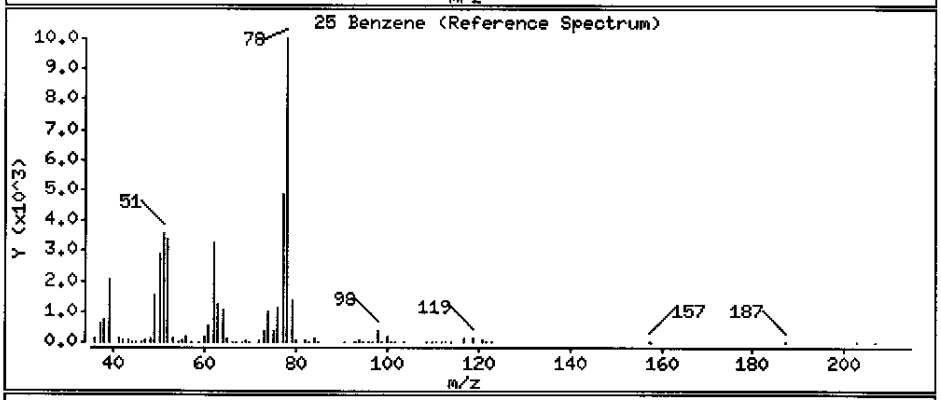
Column phase: DB-624 Column diameter: 0.25

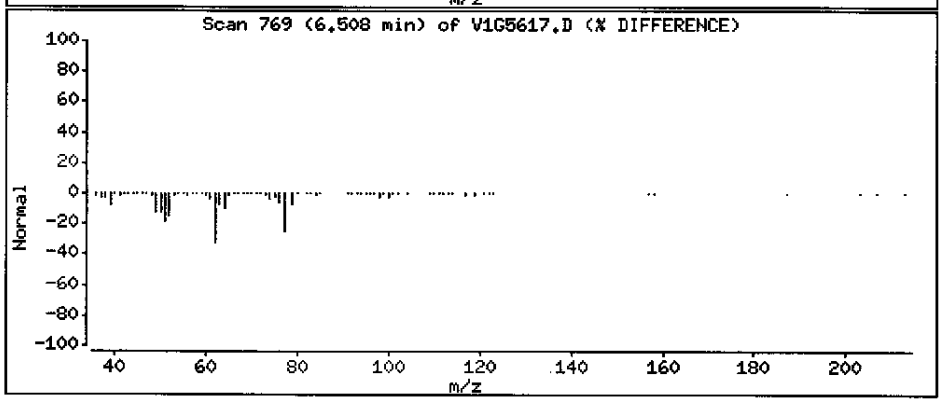
25 Benzene Concentration: 2 ug/L











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Date : 27-JAN-2005 20:01

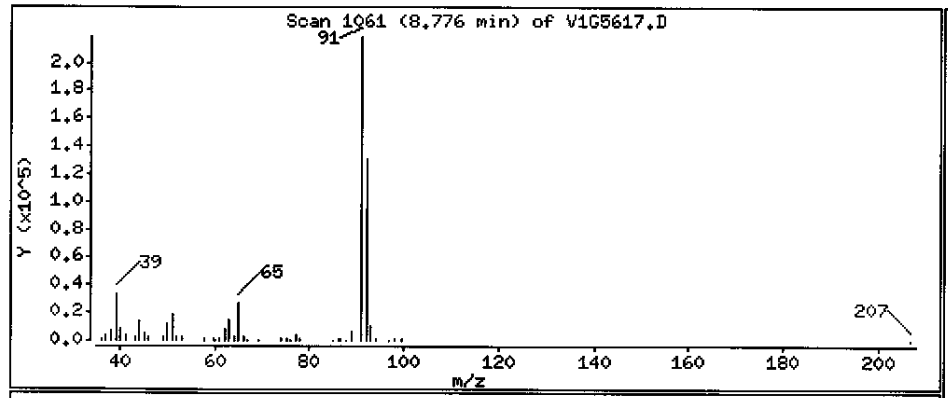
Client ID: CEF-CSDUP-01 Instrument: v1.i

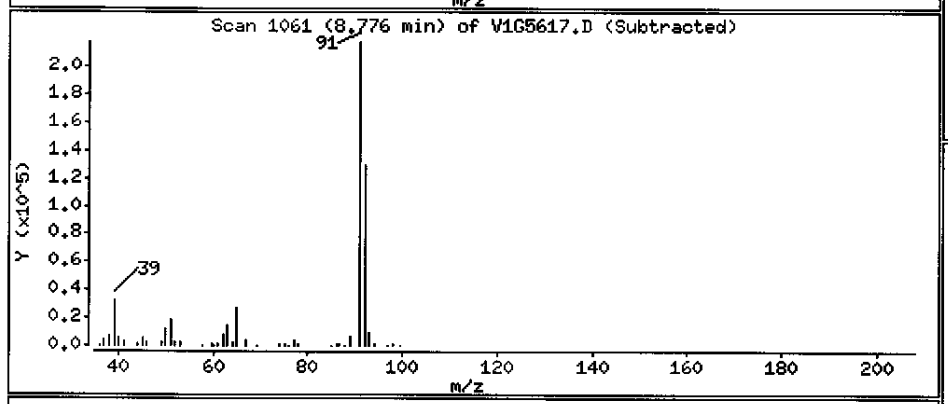
Sample Info: ,D0058-11A,,16639

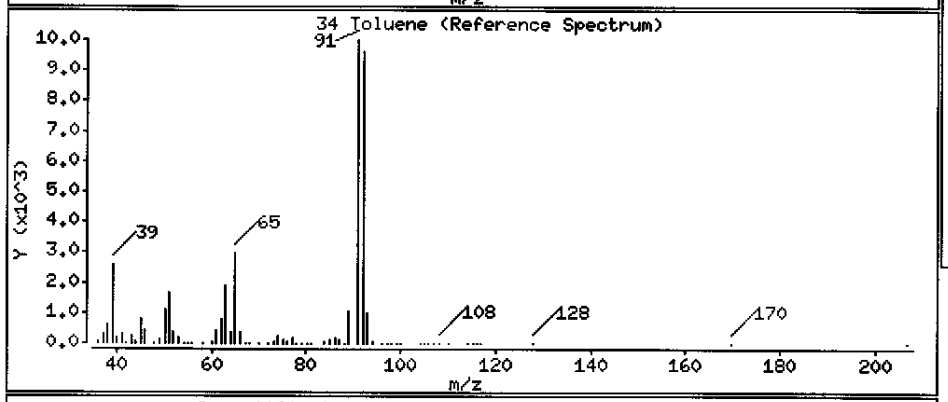
Purge Volume: 25.0 Operator: MS SRC: LIMS

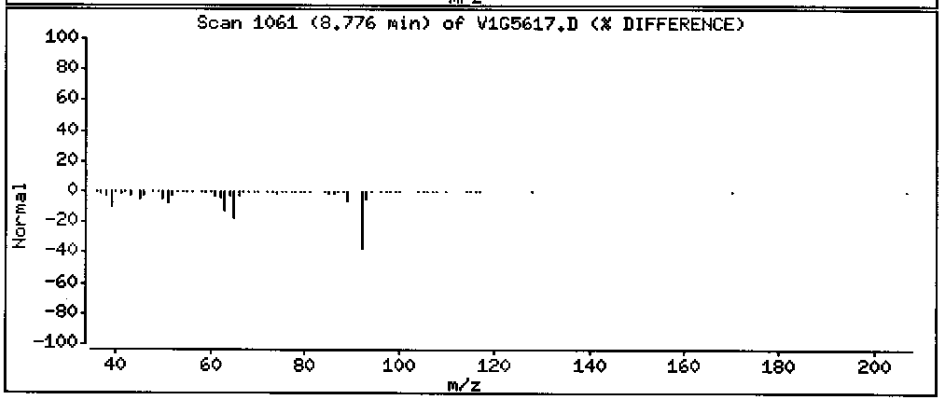
Column phase: DB-624 Column diameter: 0.25

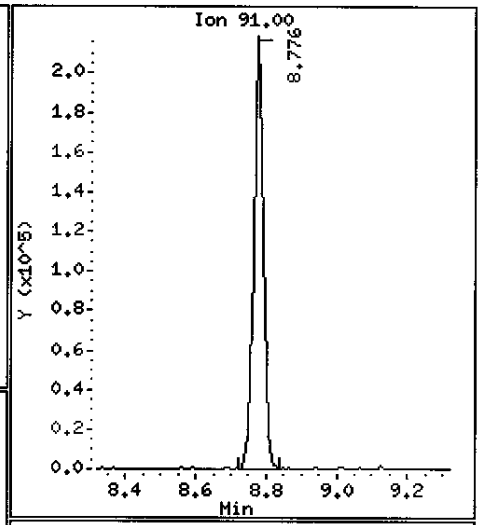
34 Toluene Concentration: 0.9 ug/L

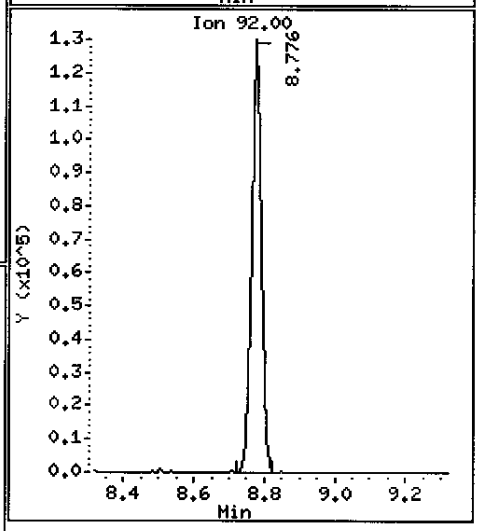












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

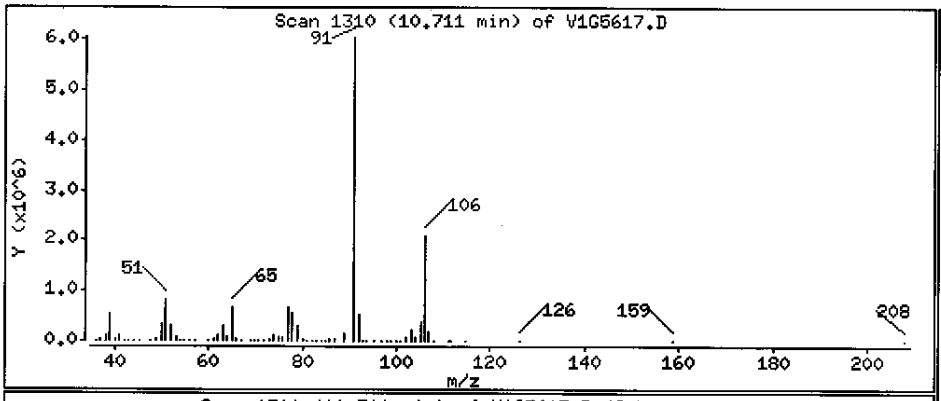
Client ID: CEF-CSDUP-01 Instrument: v1.i

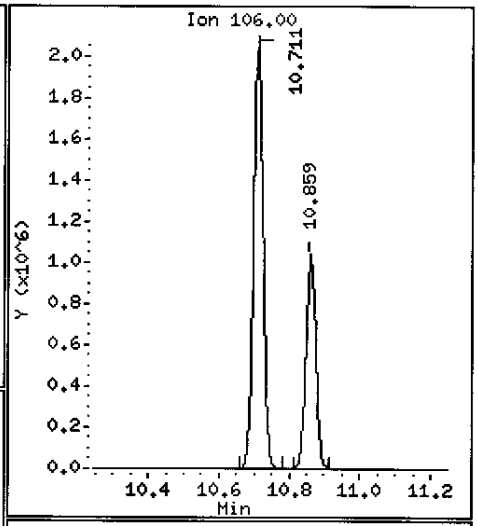
Sample Info: ,D0058-11A,,16639

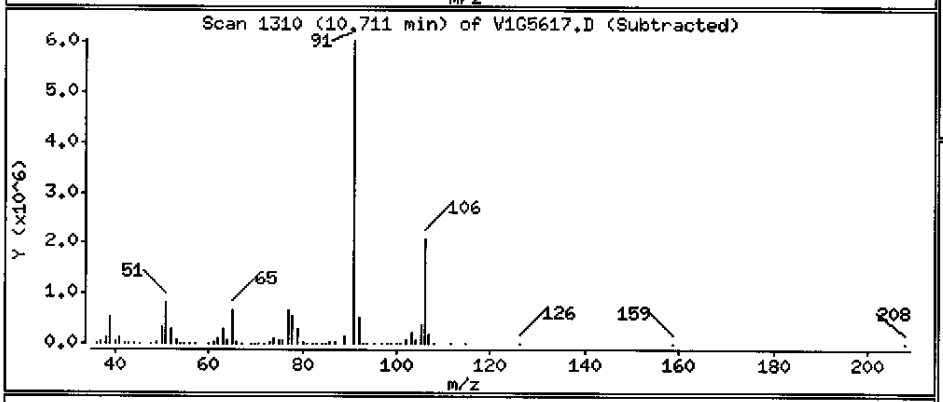
Purge Volume: 25.0 Operator: MS SRC: LIMS

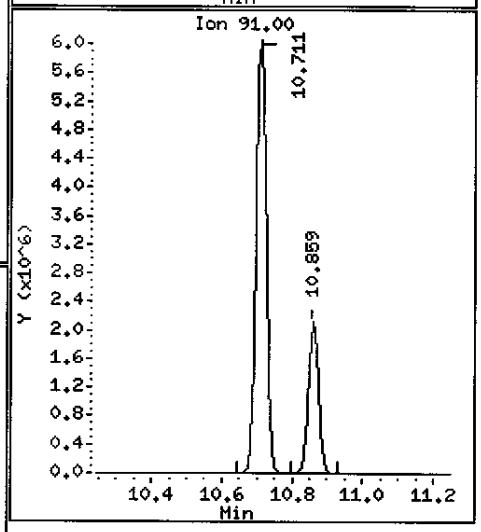
Column phase: DB-624 Column diameter: 0.25

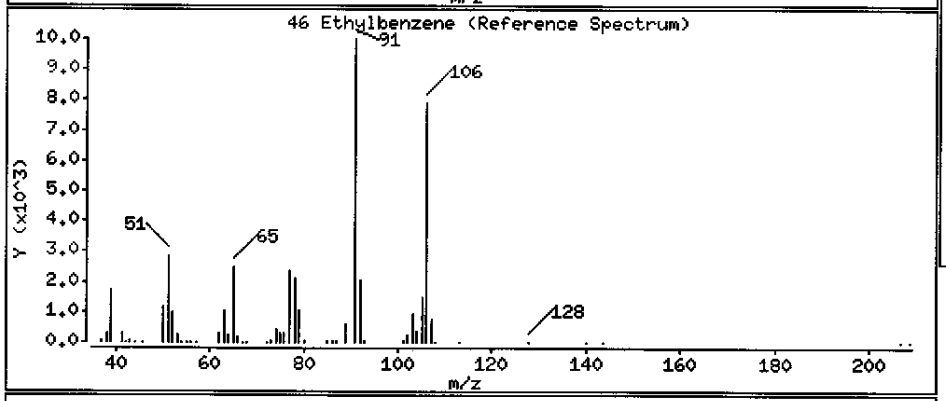
46 Ethylbenzene Concentration: 24 ug/L

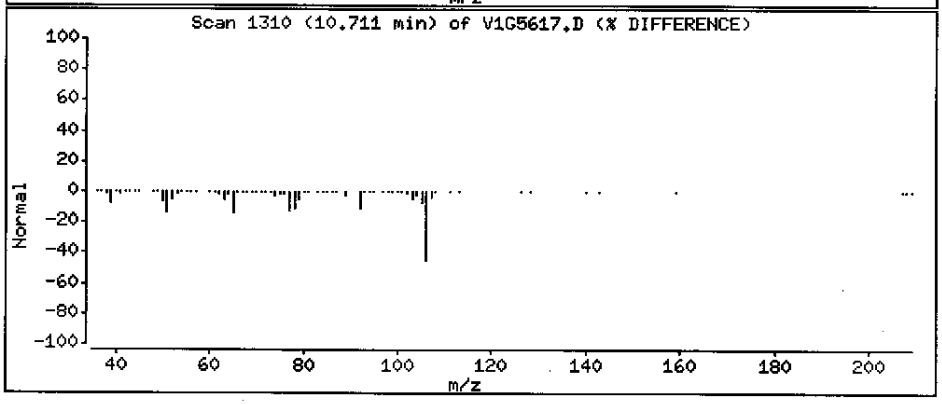












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

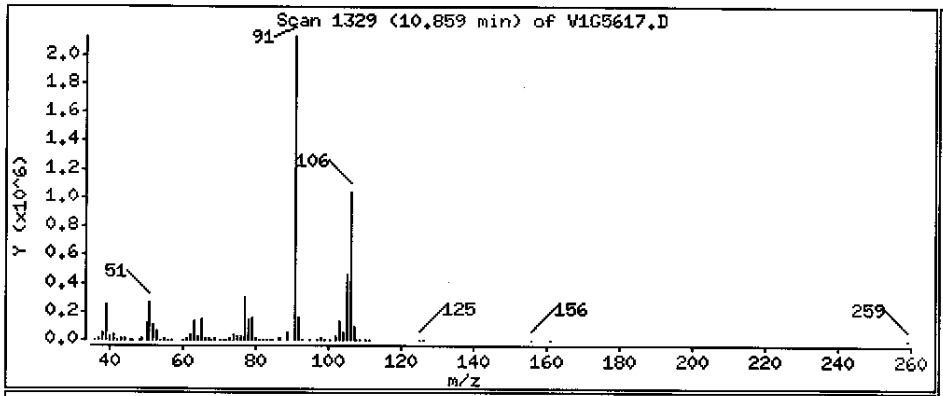
Client ID: CEF-CSDUP-01 Instrument: v1.i

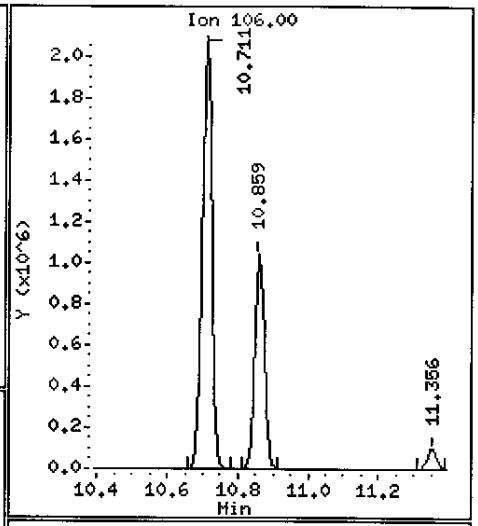
Sample Info: ,D0058-11A,,16639

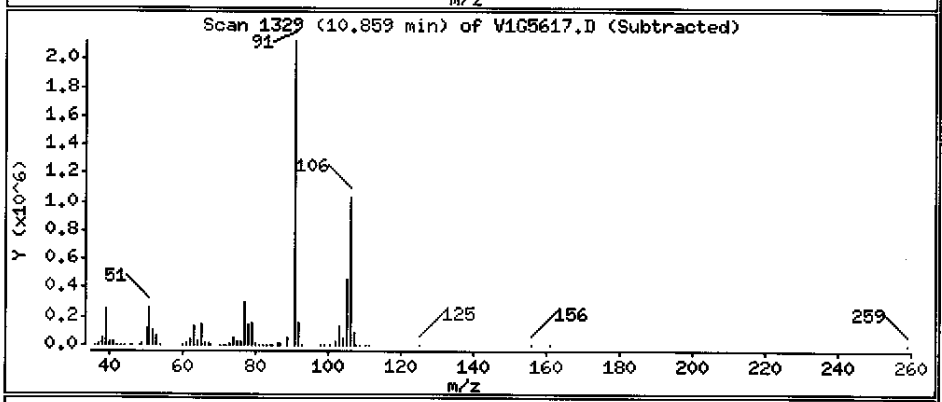
Purge Volume: 25.0 Operator: MS SRC: LIMS

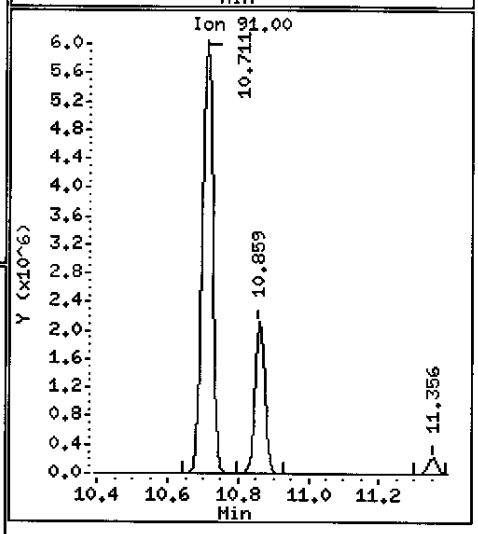
Column phase: DB-624 Column diameter: 0.25

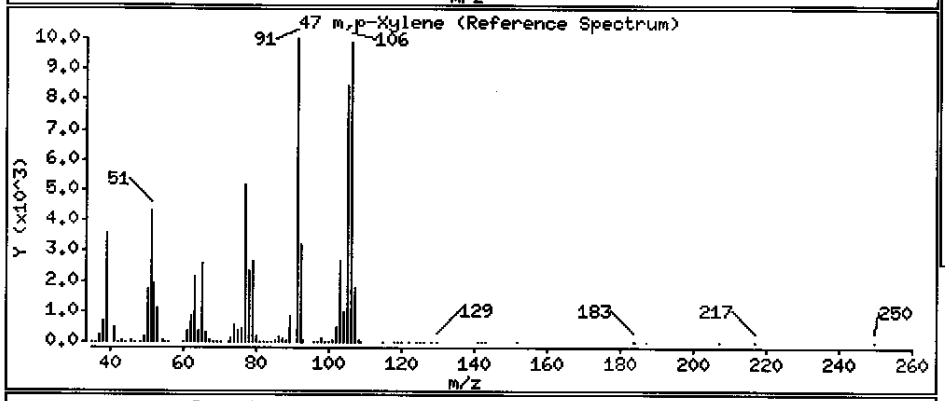
47 m,p-Xylene Concentration: 10 ug/L

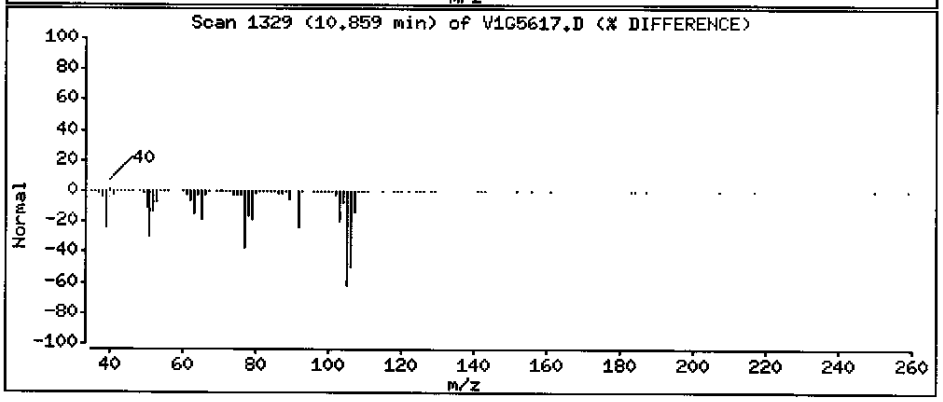












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

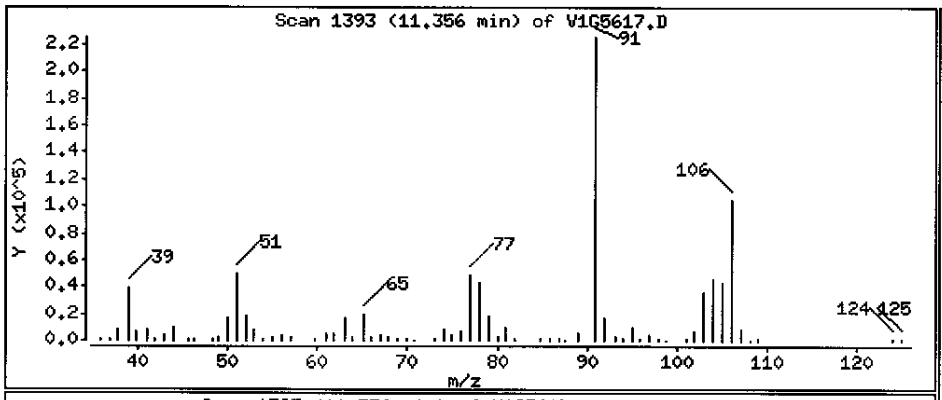
Client ID: CEF-CSDUP-01 Instrument: v1.i

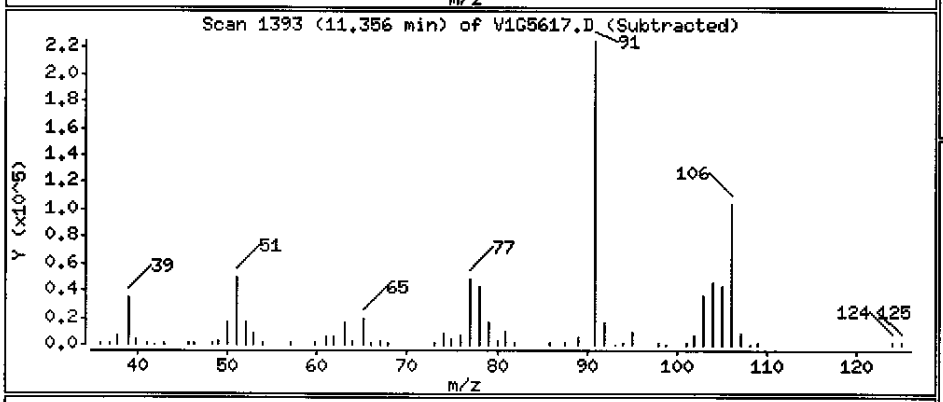
Sample Info: ,D0058-11A,,16639

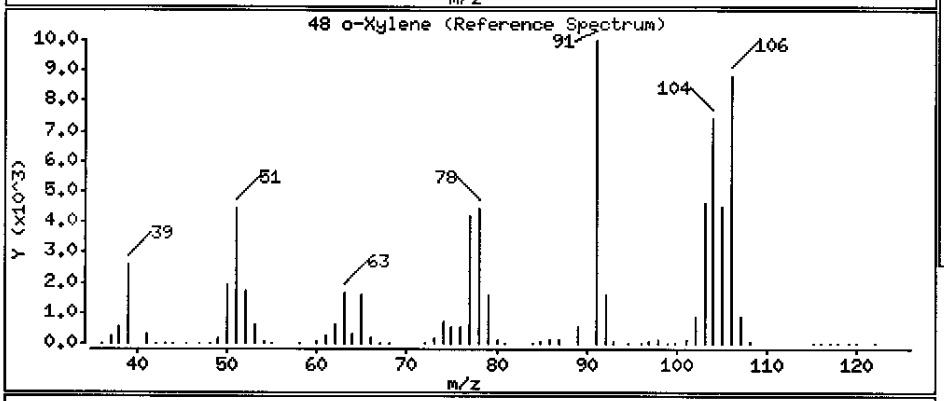
Purge Volume: 25.0 Operator: MS SRC: LIMS

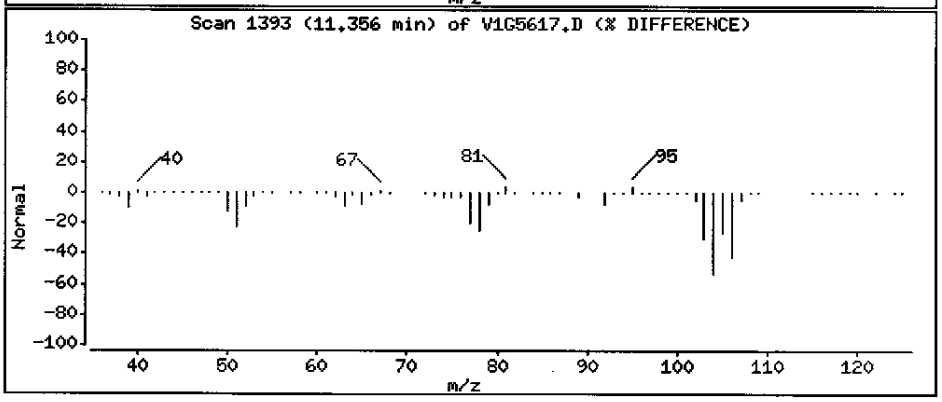
Column phase: DB-624 Column diameter: 0.25

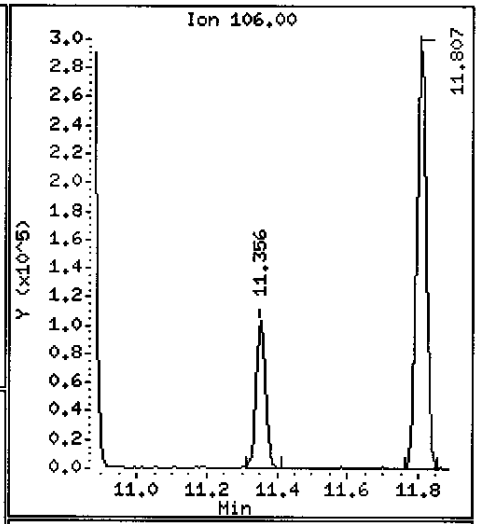
48 o-Xylene Concentration: 1 ug/L

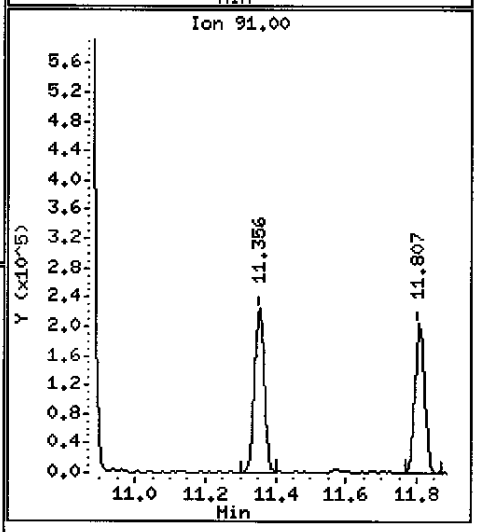












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

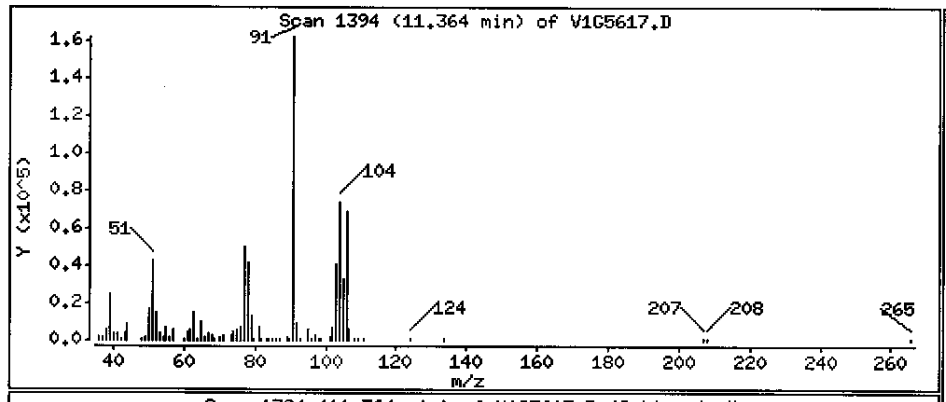
Client ID: CEF-CSDUP-01 Instrument: v1.i

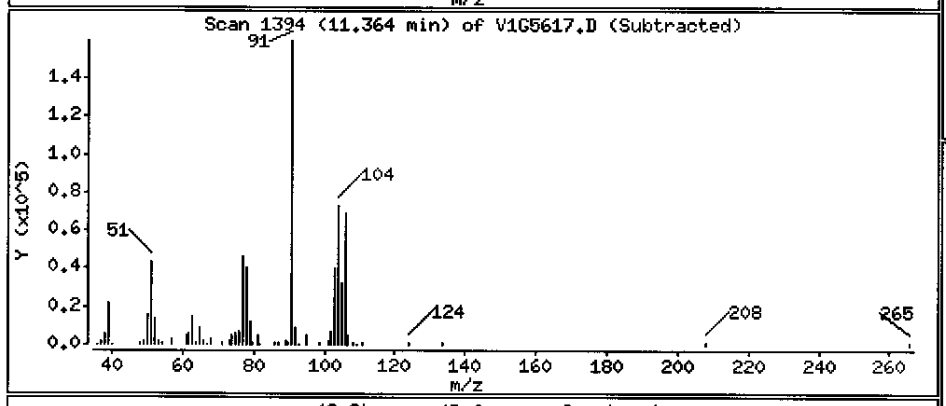
Sample Info: ,D0058-11A,,16639

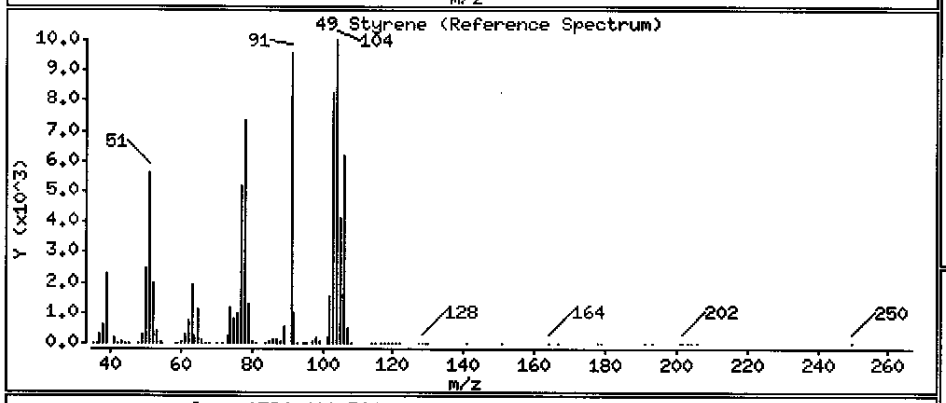
Purge Volume: 25.0 Operator: MS SRC: LIMS

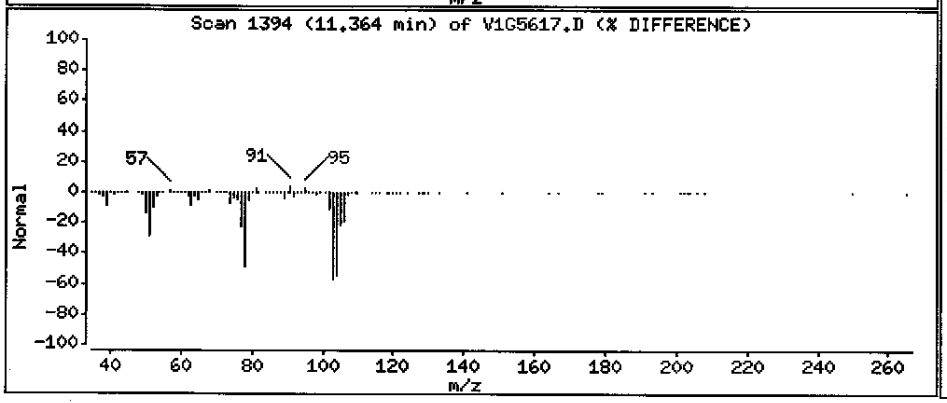
Column phase: DB-624 Column diameter: 0.25

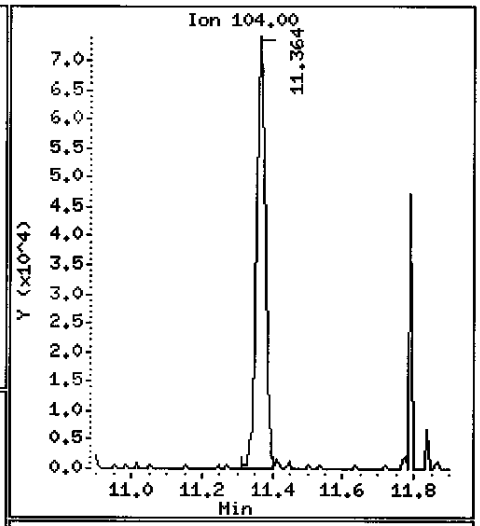
49 Styrene Concentration: 0.5 ug/L

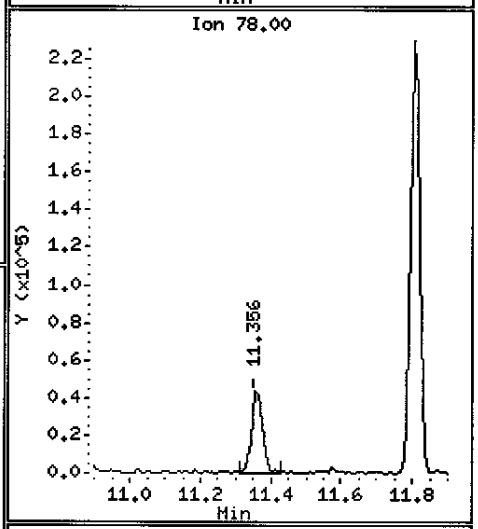


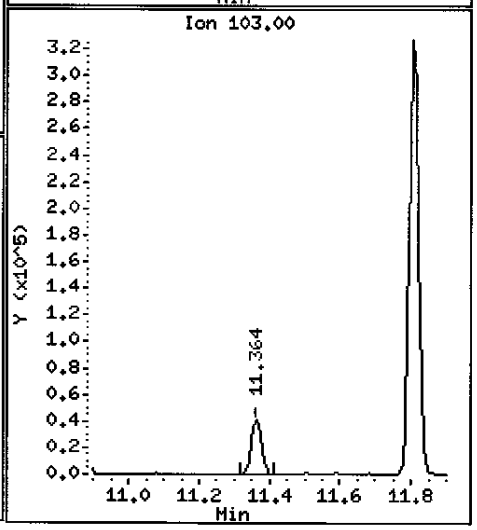












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

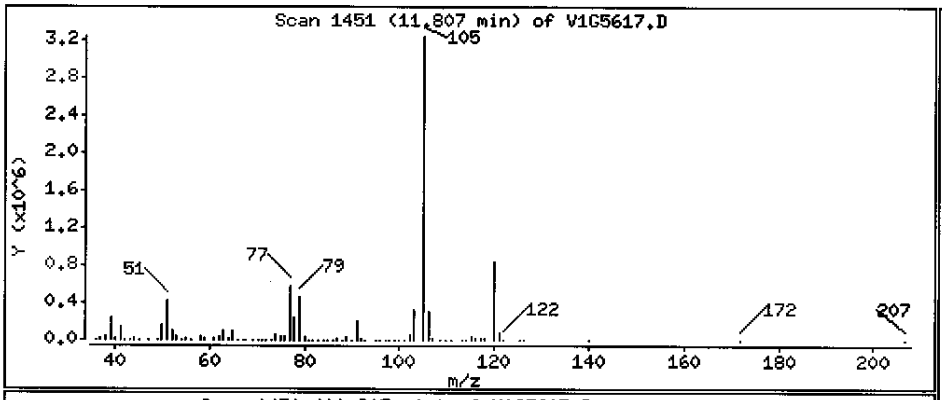
Client ID: CEF-CSDUP-01 Instrument: v1.i

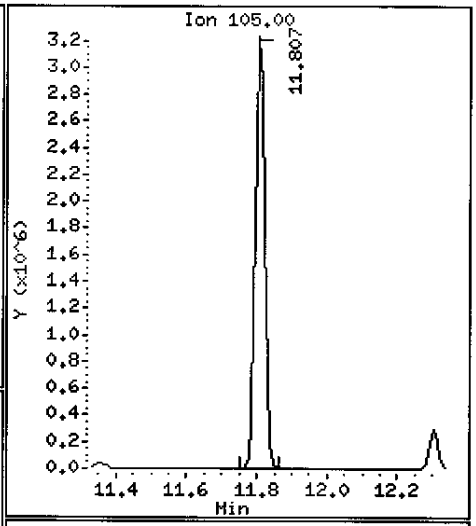
Sample Info: ,D0058-11A,,16639

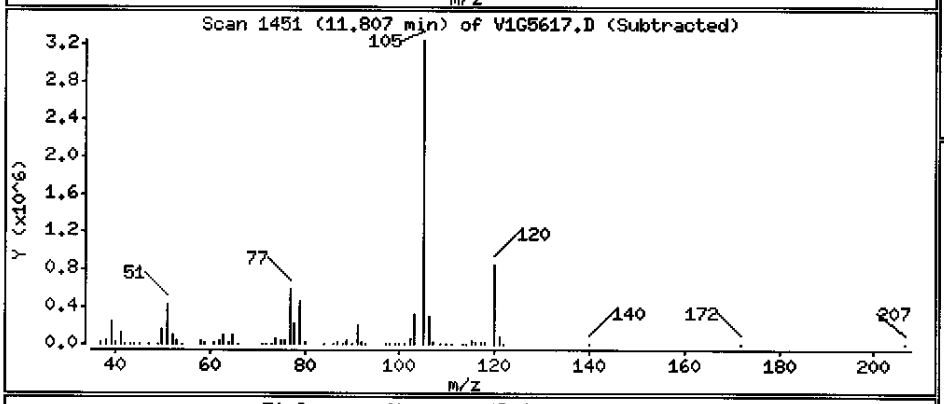
Purge Volume: 25.0 Operator: MS SRC: LIMS

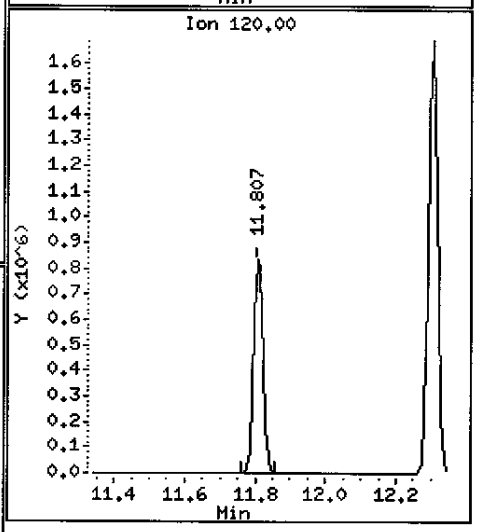
Column phase: DB-624 Column diameter: 0.25

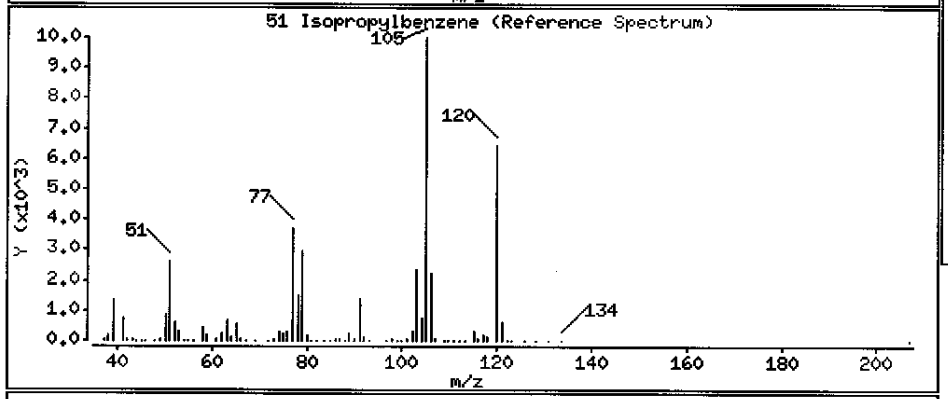
51 Isopropylbenzene Concentration: 12 ug/L

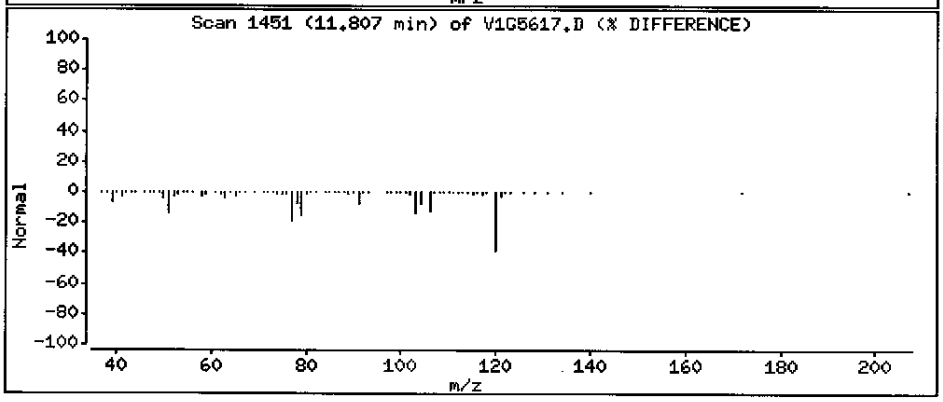












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

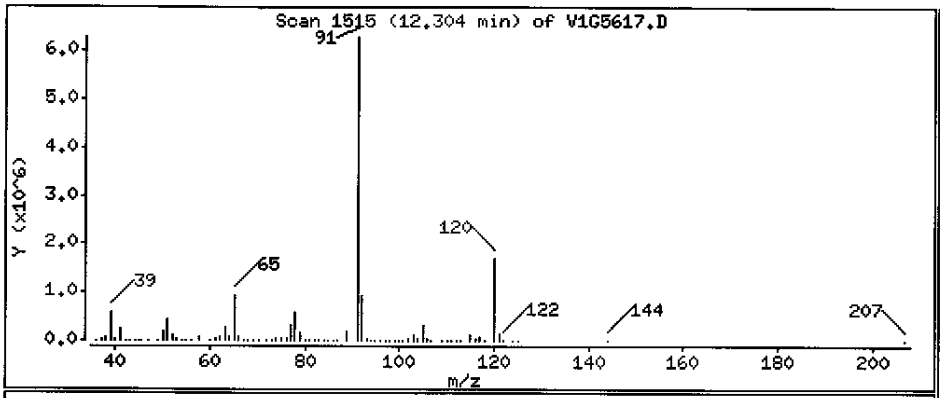
Client ID: CEF-CSDUP-01 Instrument: v1.i

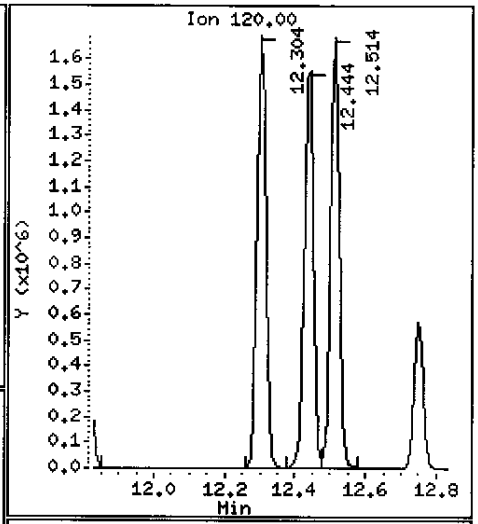
Sample Info: ,D0058-11A,,16639

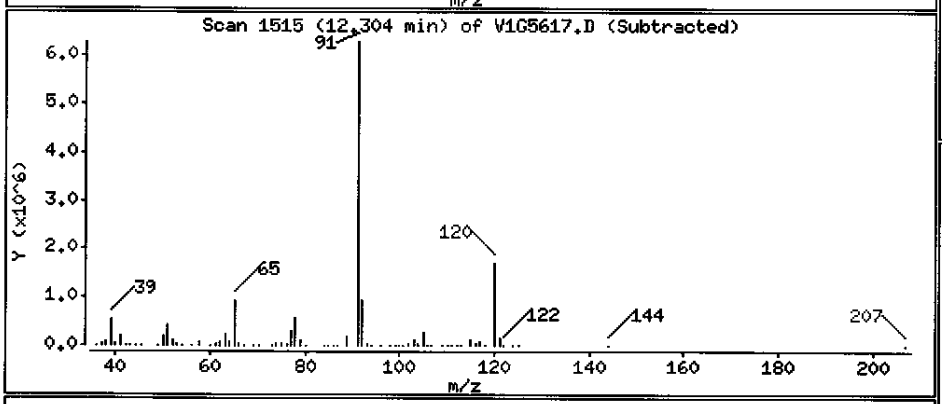
Purge Volume: 25.0 Operator: MS SRC: LIMS

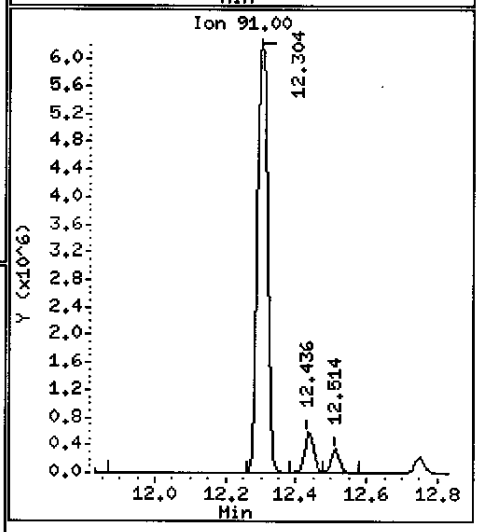
Column phase: DB-624 Column diameter: 0.25

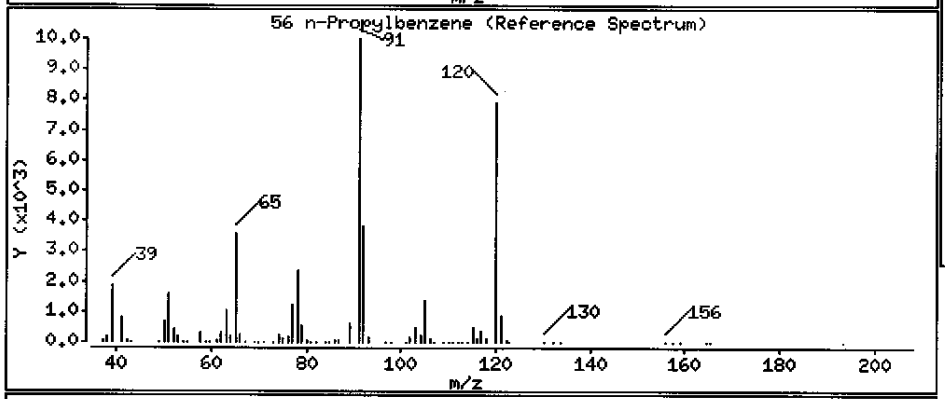
56 n-Propylbenzene Concentration: 20 ug/L

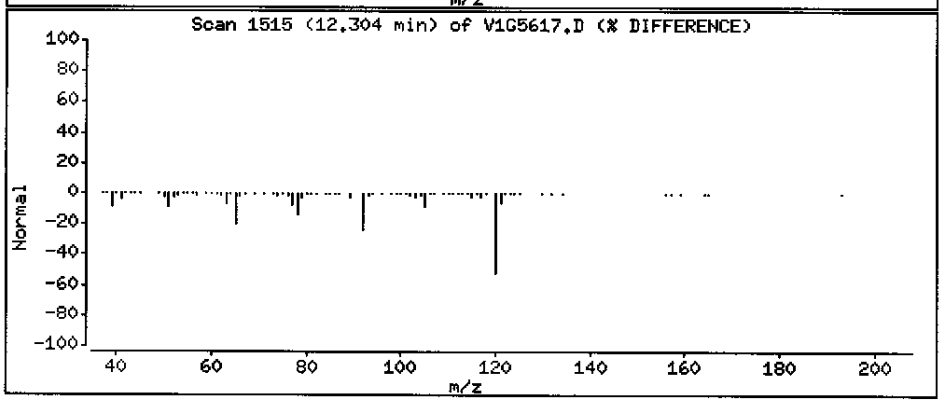












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

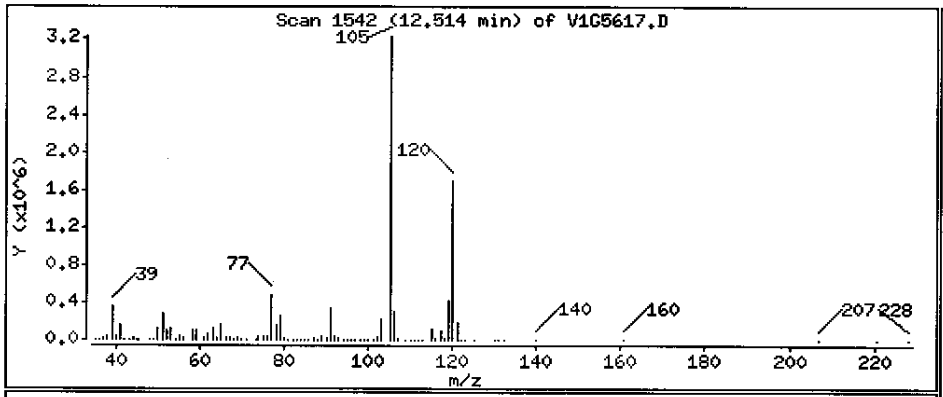
Client ID: CEF-CSDUP-01 Instrument: v1.i

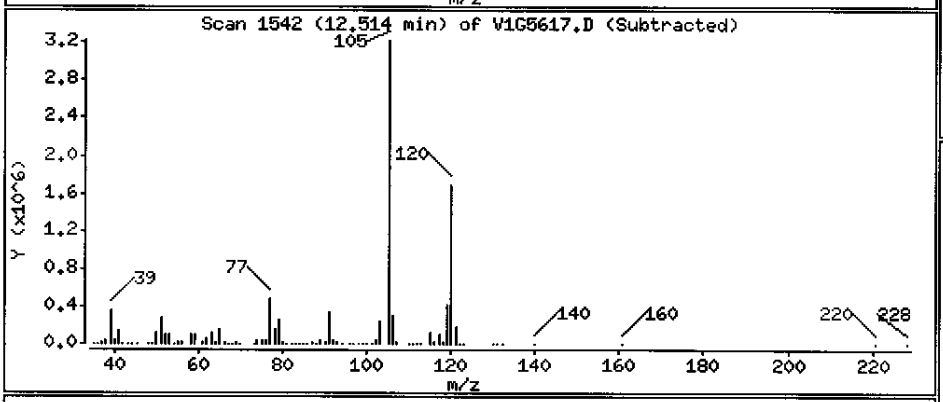
Sample Info: ,D0058-11A,,16639

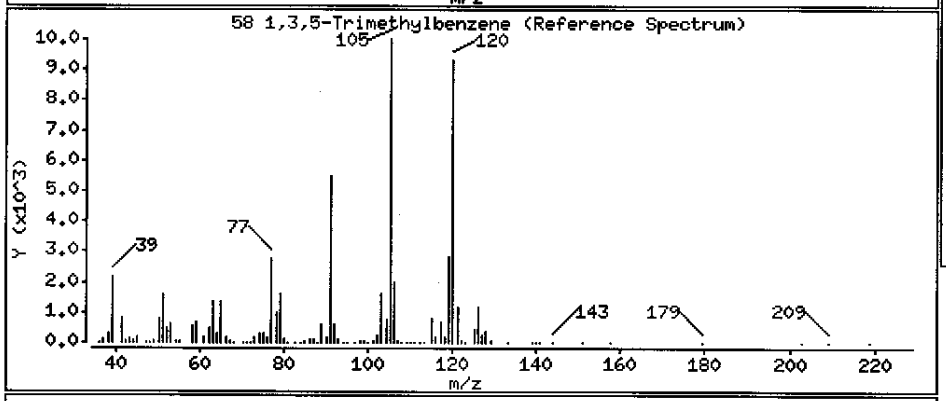
Purge Volume: 25.0 Operator: MS SRC: LIMS

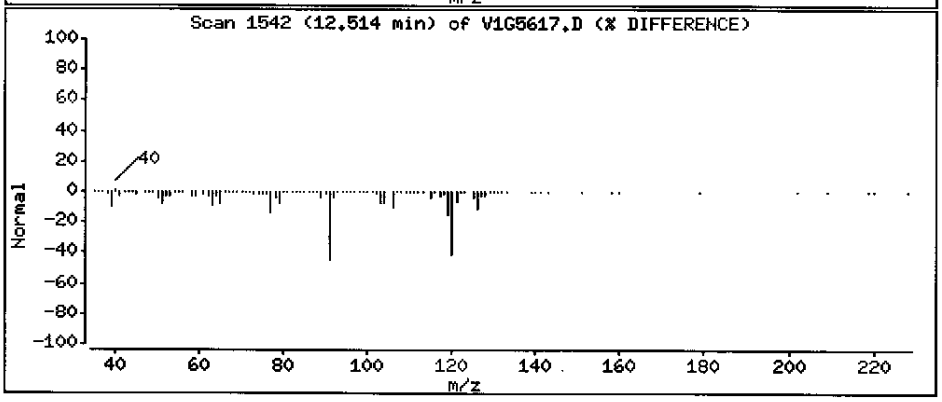
Column phase: DB-624 Column diameter: 0.25

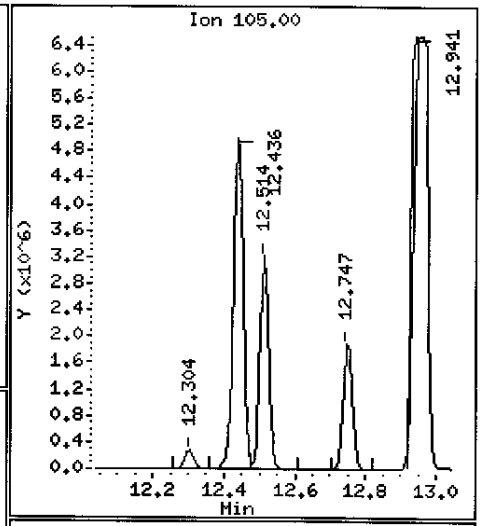
58 1,3,5-Trimethylbenzene Concentration: 13 ug/L

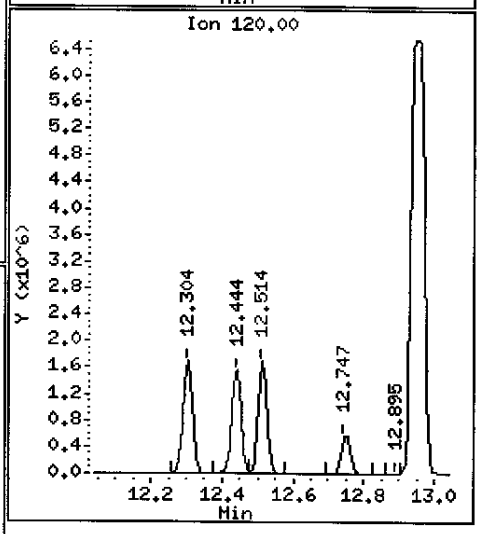












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

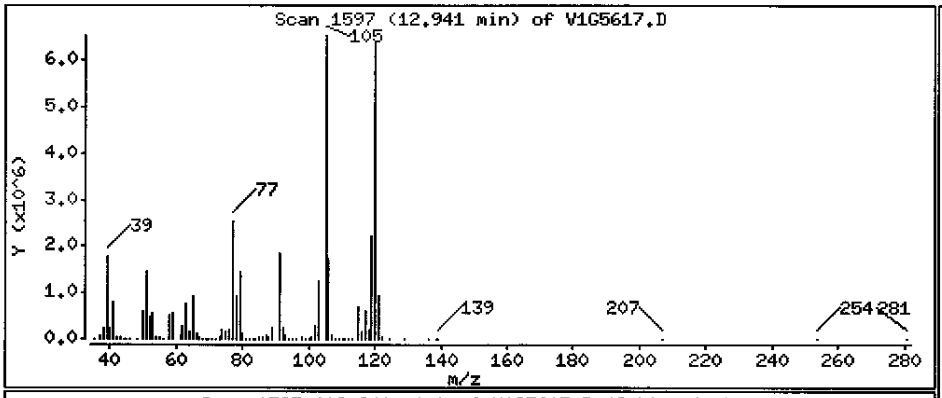
Client ID: CEF-CSDUP-01 Instrument: v1.i

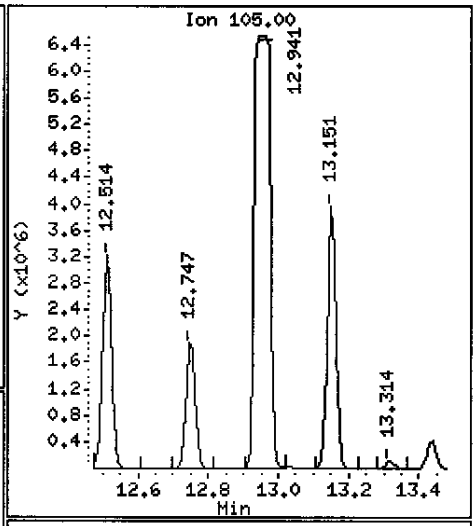
Sample Info: ,D0058-11A,,16639

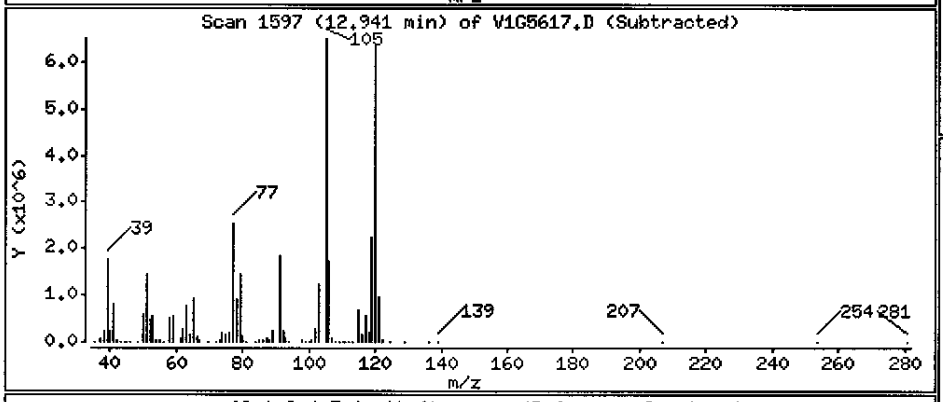
Purge Volume: 25.0 Operator: MS SRC: LIMS

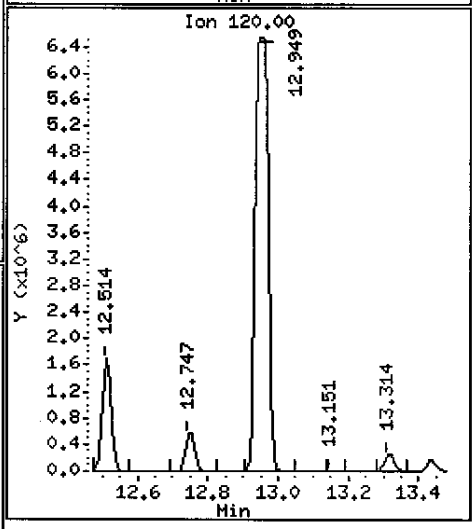
Column phase: DB-624 Column diameter: 0.25

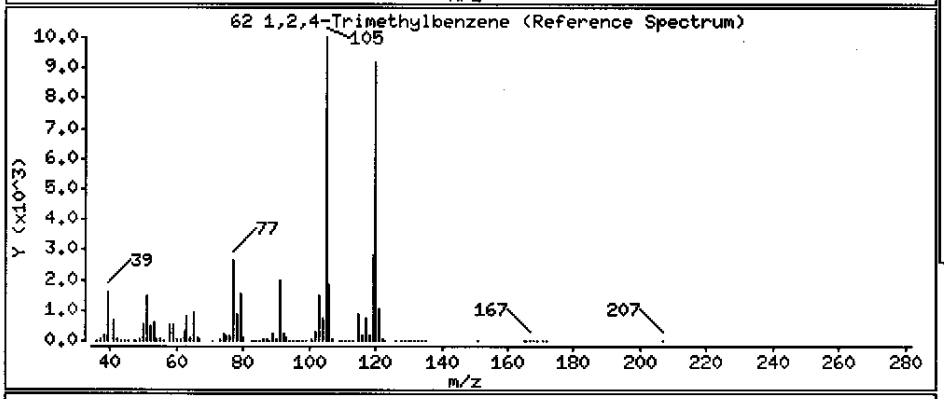
62 1,2,4-Trimethylbenzene Concentration: 51 ug/L

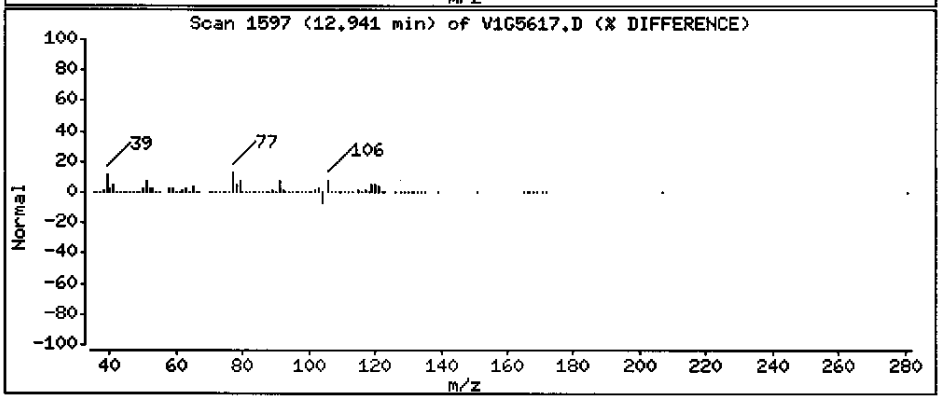












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

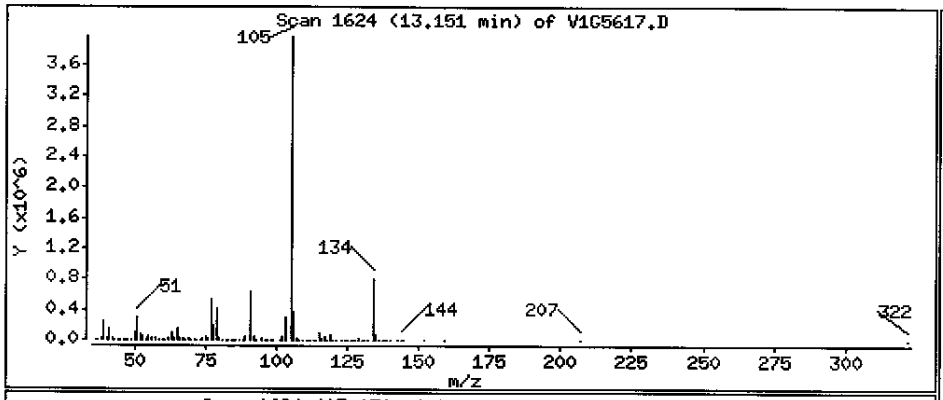
Client ID: CEF-CSDUP-01 Instrument: v1.i

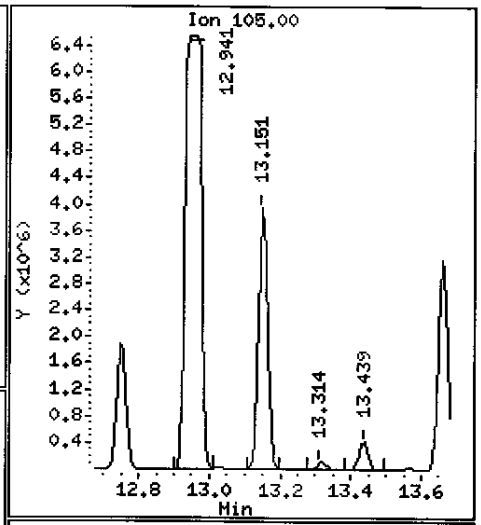
Sample Info: ,D0058-11A,,16639

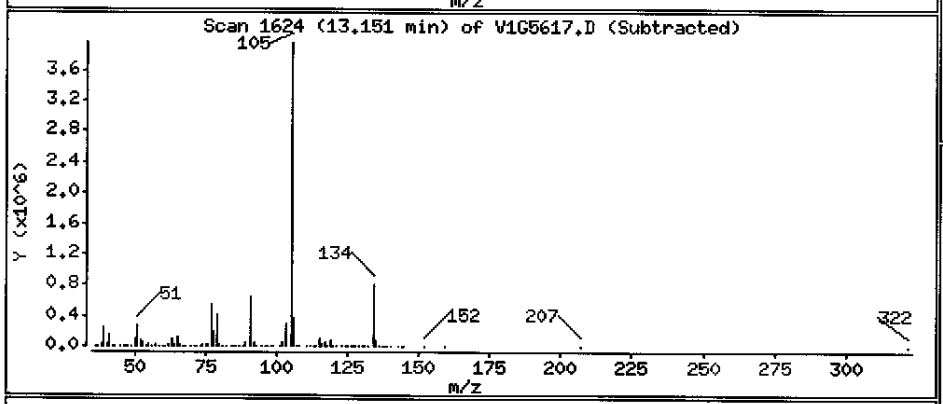
Purge Volume: 25.0 Operator: MS SRC: LIMS

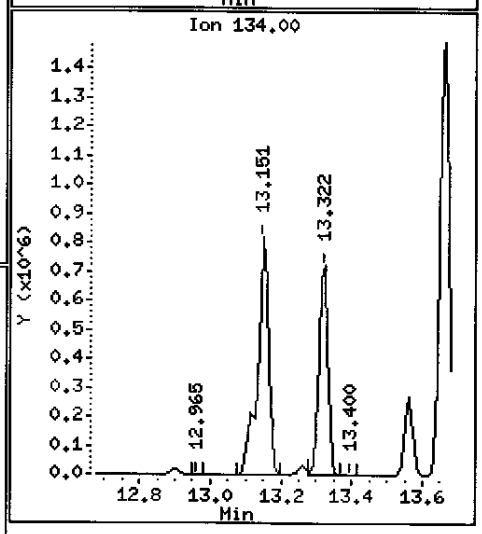
Column phase: DB-624 Column diameter: 0.25

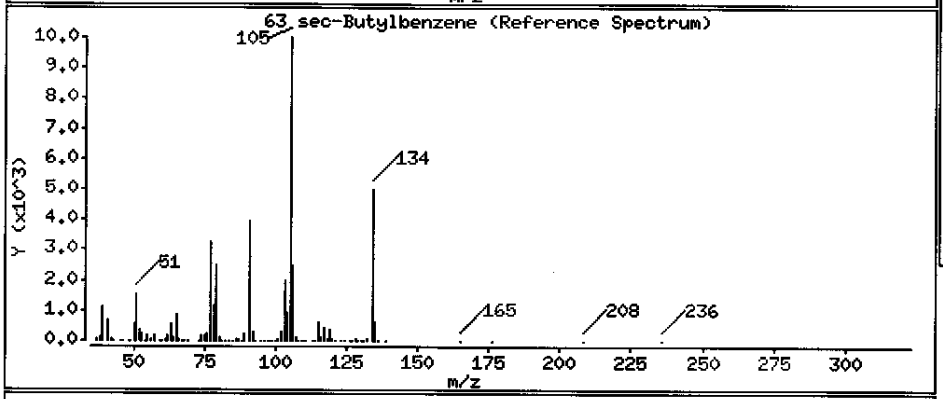
63 sec-Butylbenzene Concentration: 14 ug/L

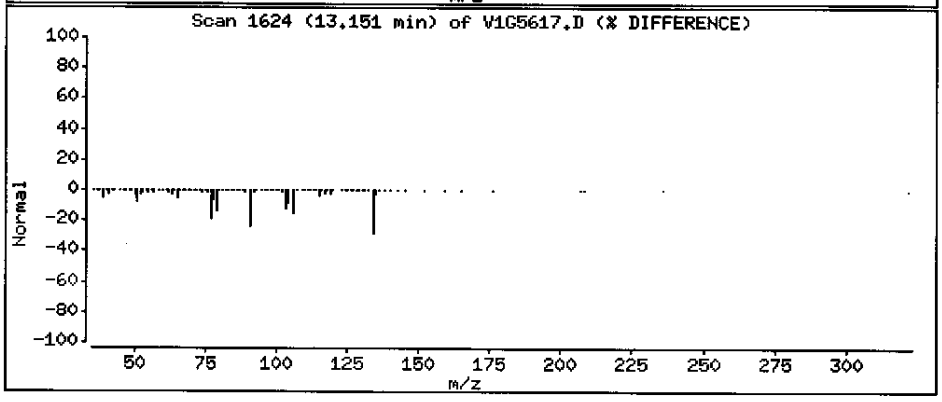












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

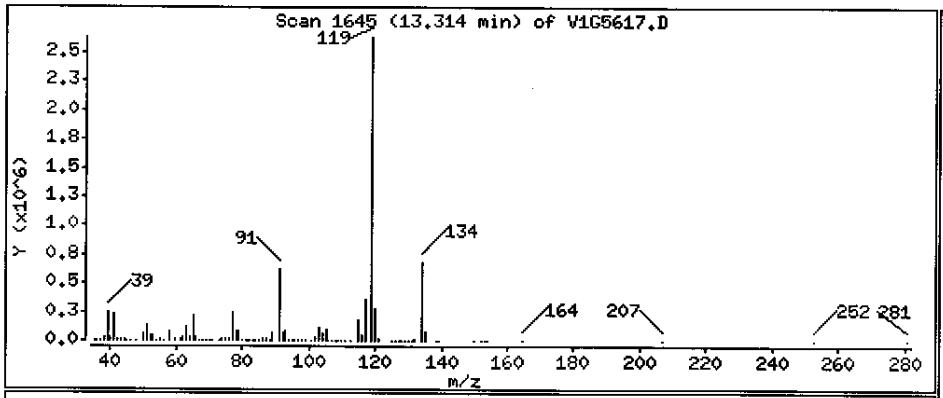
Client ID: CEF-CSDUP-01 Instrument: v1.i

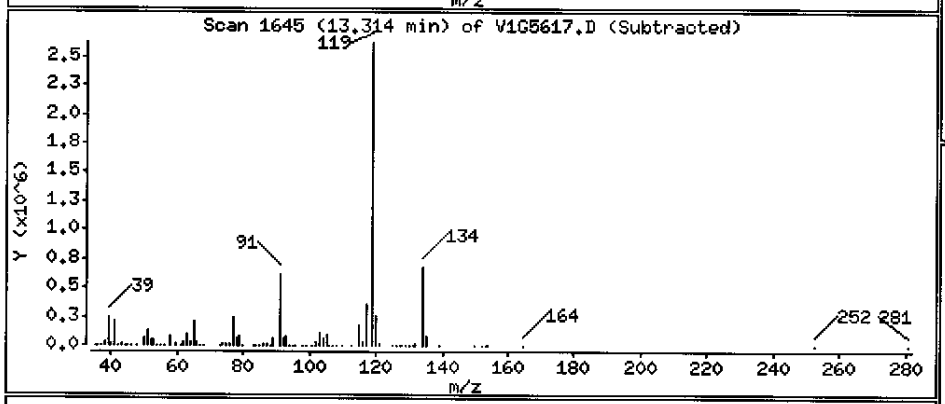
Sample Info: ,D0058-11A,,16639

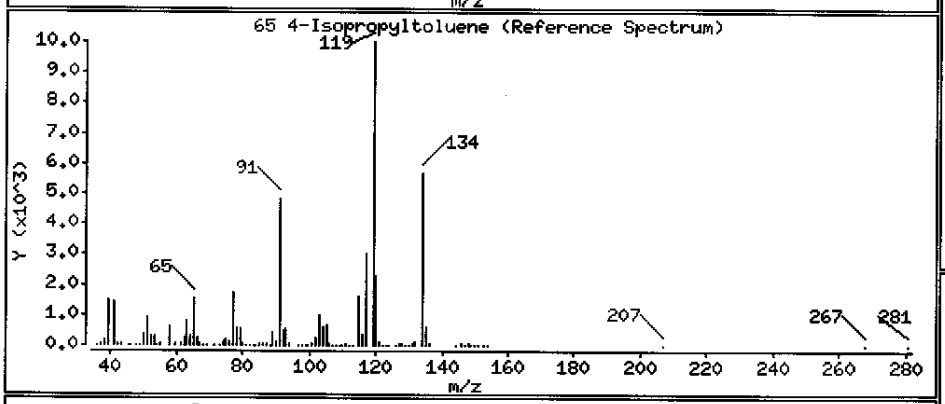
Purge Volume: 25.0 Operator: MS SRC: LIMS

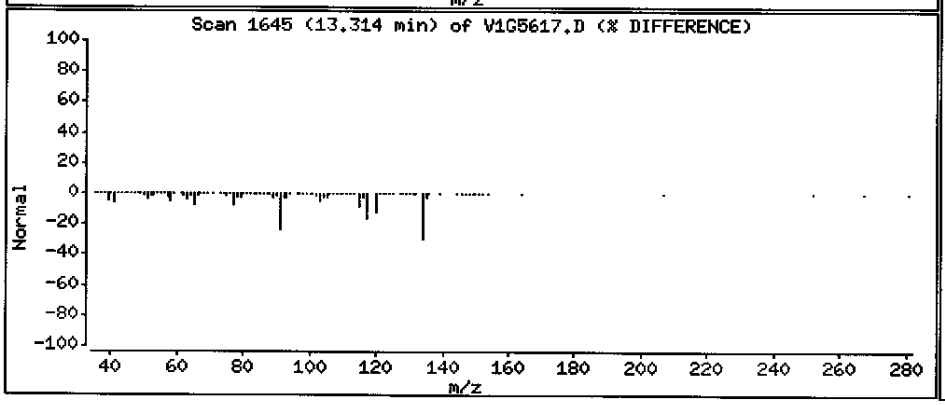
Column phase: DB-624 Column diameter: 0.25

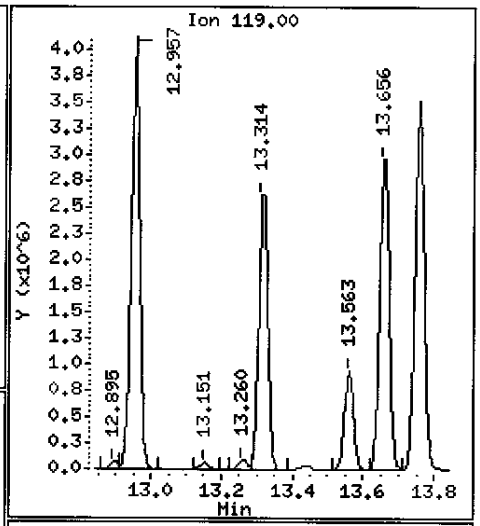
65 4-Isopropyltoluene Concentration: 12 ug/L

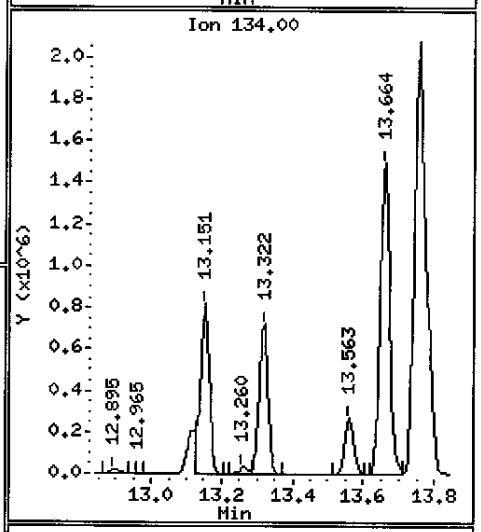


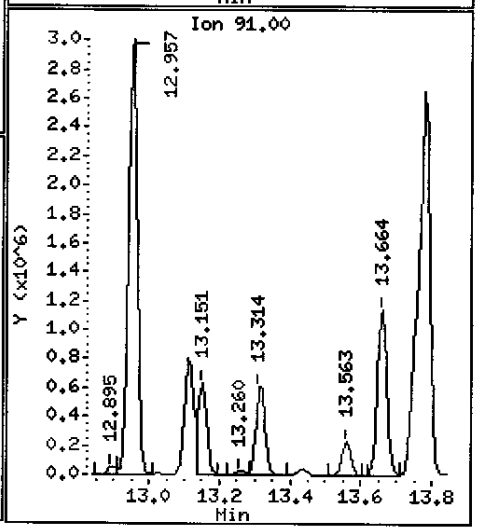












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

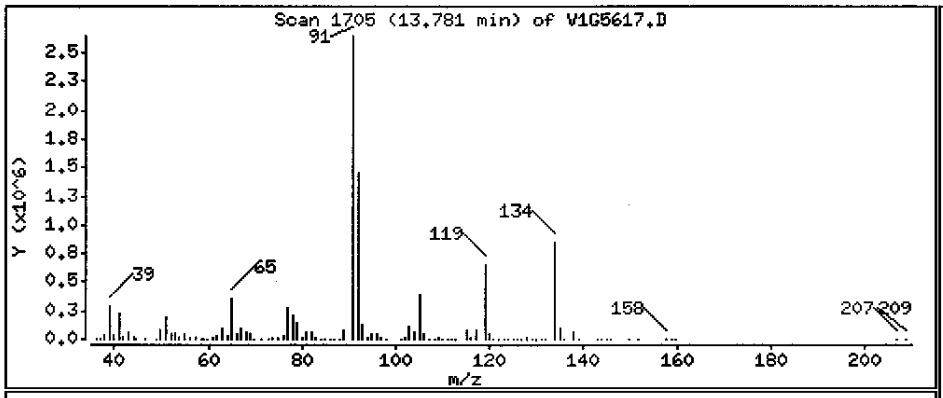
Client ID: CEF-CSDUP-01 Instrument: v1.i

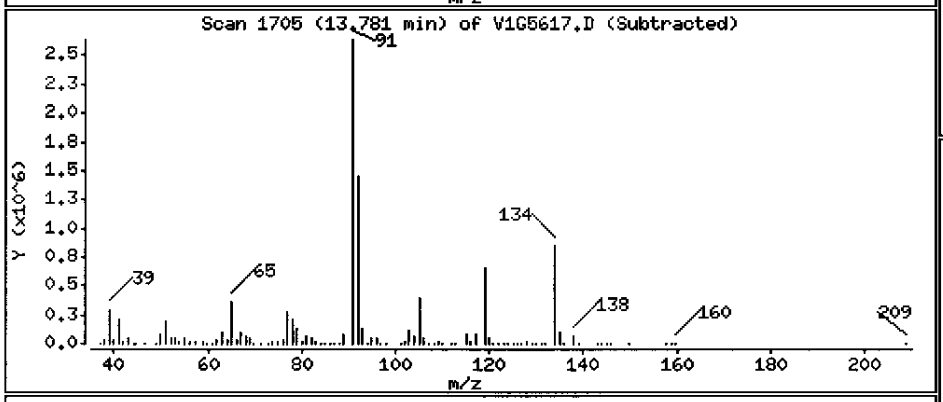
Sample Info: ,D0058-11A,,16639

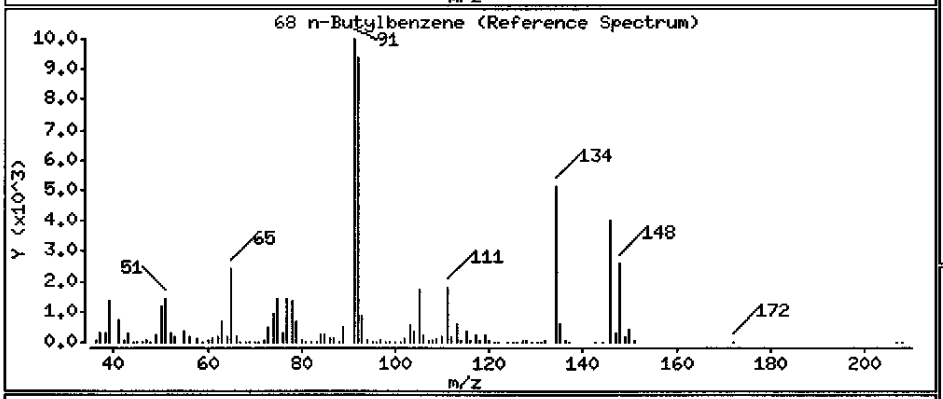
Purge Volume: 25.0 Operator: MS SRC: LIMS

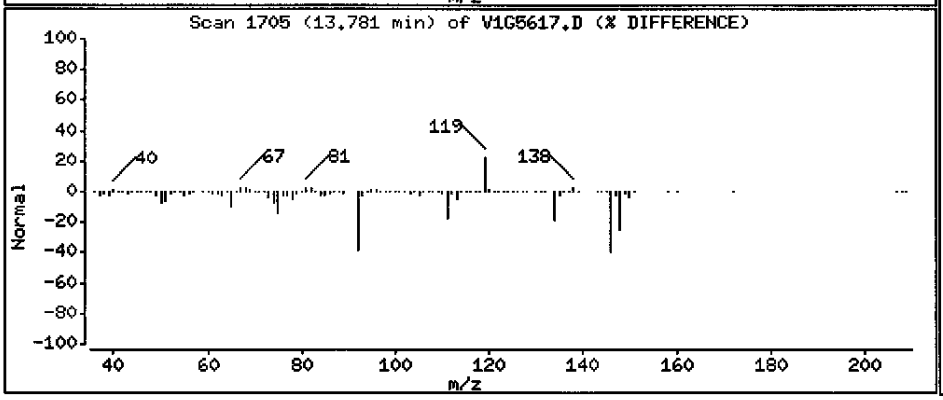
Column phase: DB-624 Column diameter: 0.25

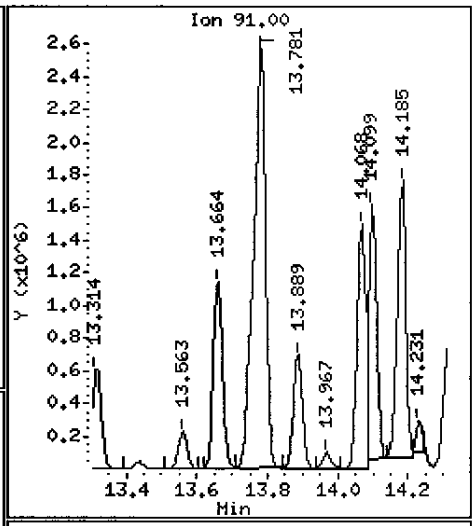
68 n-Butylbenzene Concentration: 19 ug/L

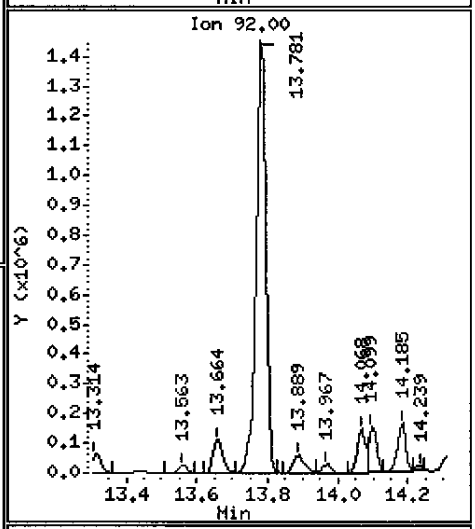


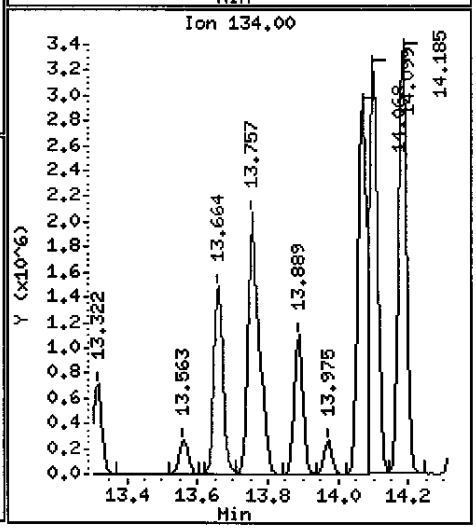












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5617.D

Date : 27-JAN-2005 20:01

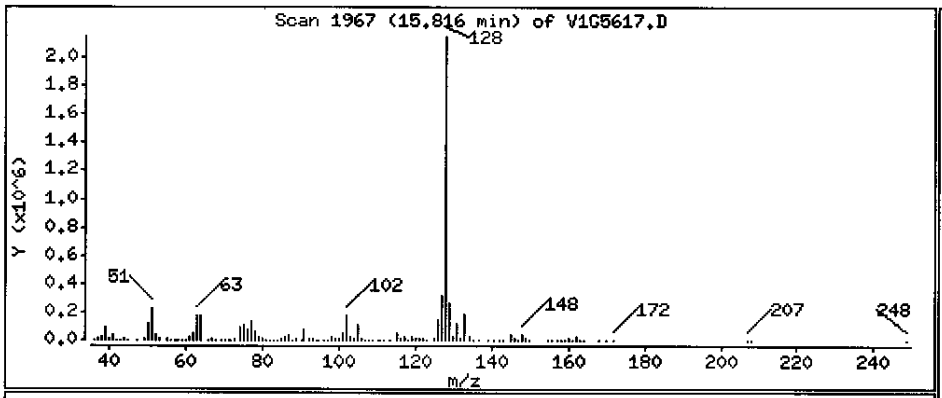
Client ID: CEF-CSDUP-01 Instrument: v1.i

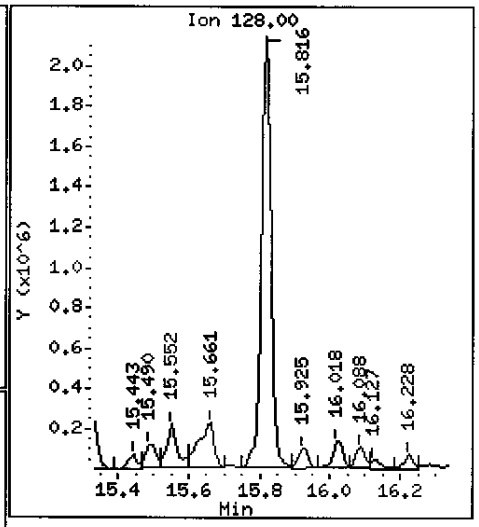
Sample Info: ,D0058-11A,,16639

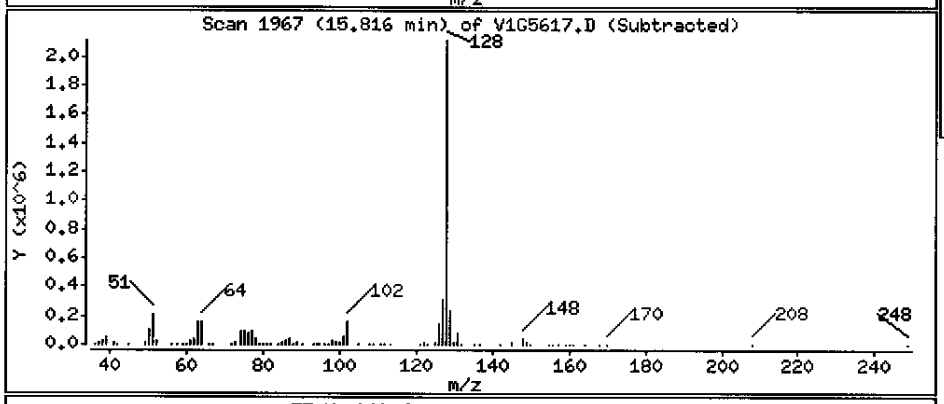
Purge Volume: 25.0 Operator: MS SRC: LIMS

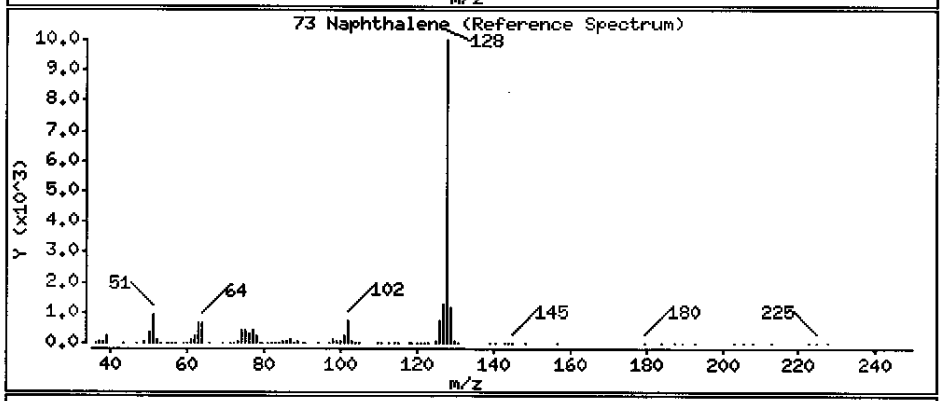
Column phase: DB-624 Column diameter: 0.25

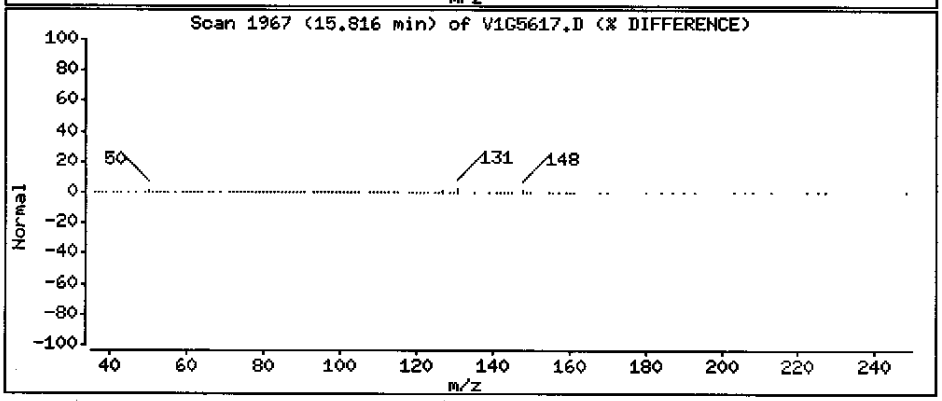
73 Naphthalene Concentration: 49 ug/L











1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01DL

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-11ADL
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5644.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 0:00
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 25000 (µL)
Date Extracted: 01/28/05 Time: 10:50
Dil Fac: 6.00 Analyst: msztrall
Date Analyzed: 01/28/05 Time: 18:02
Prep Batch: 16653
Analytical Run: V1_050128A
Instrument ID: V1
TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	3.0	U	2.6	3.0
74-87-3	Chloromethane	3.0	U	1.7	3.0
75-01-4	Vinyl chloride	3.0	U	1.3	3.0
74-83-9	Bromomethane	3.0	U	1.3	3.0
75-00-3	Chloroethane	3.0	U	1.4	3.0
75-69-4	Trichlorofluoromethane	3.0	U	1.3	3.0
75-35-4	1,1-Dichloroethene	3.0	U	0.36	3.0
67-64-1	Acetone	30	U	3.4	30
75-15-0	Carbon disulfide	3.0	U	0.18	3.0
75-09-2	Methylene chloride	3.0	U	2.6	3.0
156-60-5	trans-1,2-Dichloroethene	3.0	U	0.12	3.0
1634-04-4	Methyl tert-butyl ether	3.0	U	0.60	3.0
75-34-3	1,1-Dichloroethane	3.0	U	1.3	3.0
78-93-3	2-Butanone	30	U	2.2	30
156-59-2	cis-1,2-Dichloroethene	3.0	U	0.12	3.0
594-20-7	2,2-Dichloropropane	3.0	U	1.4	3.0
74-97-5	Bromochloromethane	3.0	U	0.96	3.0
67-66-3	Chloroform	3.0	U	1.1	3.0
71-55-6	1,1,1-Trichloroethane	3.0	U	0.12	3.0
563-58-6	1,1-Dichloropropene	3.0	U	0.18	3.0
56-23-5	Carbon tetrachloride	3.0	U	1.3	3.0
107-06-2	1,2-Dichloroethane	3.0	U	0.54	3.0
71-43-2	Benzene	3.0	U	1.1	3.0
79-01-6	Trichloroethene	3.0	U	1.0	3.0
78-87-5	1,2-Dichloropropane	3.0	U	0.12	3.0
74-95-3	Dibromomethane	3.0	U	0.48	3.0
75-27-4	Bromodichloromethane	3.0	U	0.12	3.0
10061-01-5	cis-1,3-Dichloropropene	3.0	U	0.12	3.0
108-10-1	4-Methyl-2-pentanone	30	U	1.3	30
108-88-3	Toluene	3.0	U	0.12	3.0
10061-02-6	trans-1,3-Dichloropropene	3.0	U	0.48	3.0
79-00-5	1,1,2-Trichloroethane	3.0	U	0.60	3.0
142-28-9	1,3-Dichloropropane	3.0	U	0.36	3.0

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11ADL

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5644.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 6.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 18:02

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

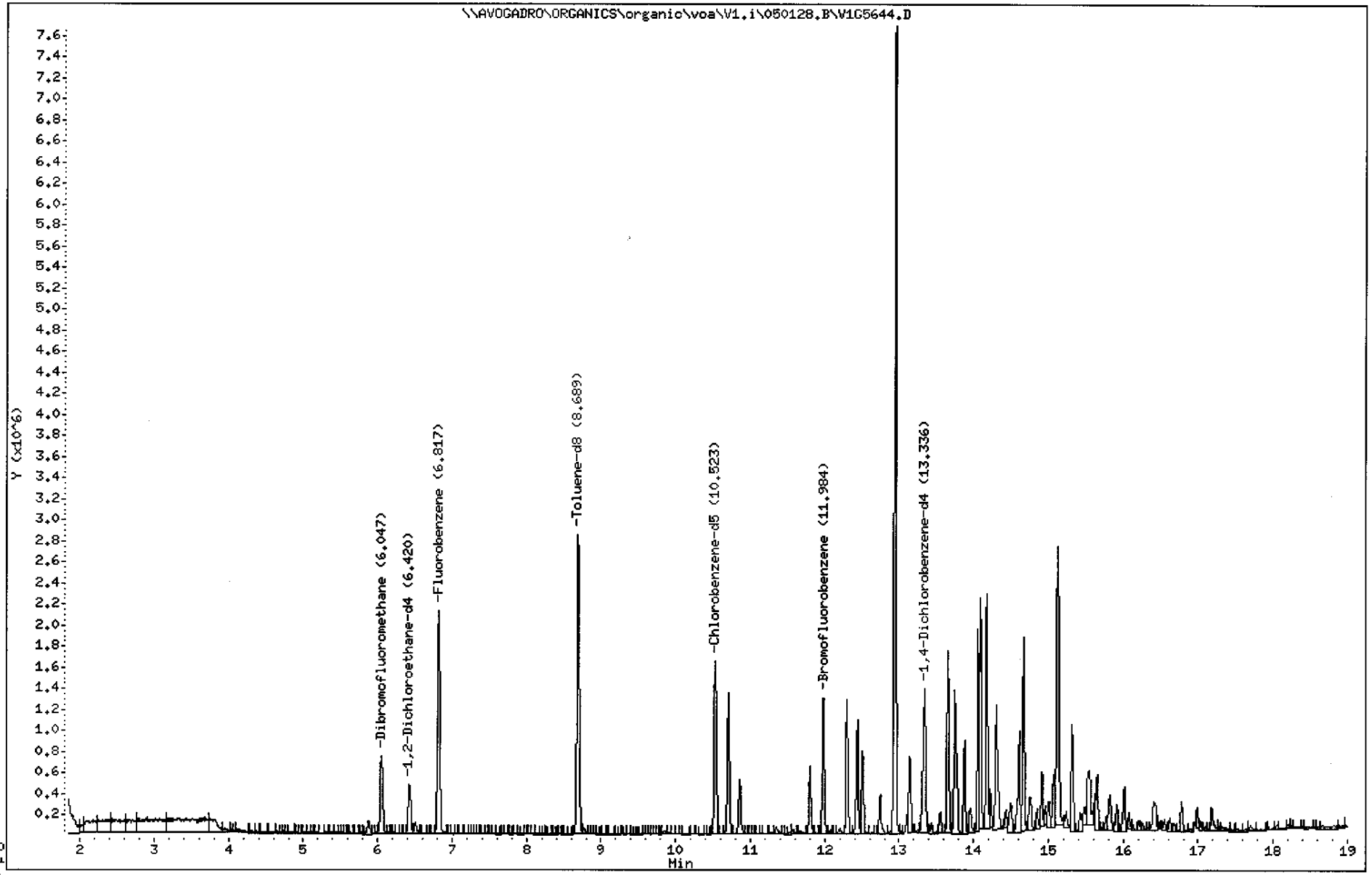
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	3.0	U	0.12	3.0
591-78-6	2-Hexanone	30	U	1.7	30
124-48-1	Dibromochloromethane	3.0	U	0.36	3.0
106-93-4	1,2-Dibromoethane	3.0	U	0.18	3.0
108-90-7	Chlorobenzene	3.0	U	0.18	3.0
630-20-6	1,1,1,2-Tetrachloroethane	3.0	U	0.24	3.0
100-41-4	**Ethylbenzene**	**15**	**D**	**1.1**	**3.0**
1330-20-7	**m,p-Xylene**	**5.6**	**D**	**2.1**	**3.0**
95-47-6	o-Xylene	3.0	U	0.18	3.0
1330-20-7	**Xylene (Total)**	**5.6**	**D**	**1.0**	**3.0**
100-42-5	Styrene	3.0	U	0.36	3.0
75-25-2	Bromoform	3.0	U	0.78	3.0
98-82-8	**Isopropylbenzene**	**8.1**	**D**	**0.96**	**3.0**
79-34-5	1,1,2,2-Tetrachloroethane	3.0	U	0.78	3.0
108-86-1	Bromobenzene	3.0	U	0.36	3.0
96-18-4	1,2,3-Trichloropropane	3.0	U	0.54	3.0
103-65-1	**n-Propylbenzene**	**14**	**D**	**0.30**	**3.0**
95-49-8	2-Chlorotoluene	3.0	U	0.36	3.0
108-67-8	**1,3,5-Trimethylbenzene**	**9.1**	**D**	**0.18**	**3.0**
106-43-4	4-Chlorotoluene	3.0	U	0.30	3.0
98-06-6	tert-Butylbenzene	3.0	U	0.42	3.0
95-63-6	**1,2,4-Trimethylbenzene**	**100**	**D**	**0.24**	**3.0**
135-98-8	**sec-Butylbenzene**	**9.4**	**D**	**0.24**	**3.0**
99-87-6	**4-Isopropyltoluene**	**7.6**	**D**	**0.18**	**3.0**
541-73-1	1,3-Dichlorobenzene	3.0	U	0.36	3.0
106-46-7	1,4-Dichlorobenzene	3.0	U	0.42	3.0
104-51-8	**n-Butylbenzene**	**11**	**D**	**0.30**	**3.0**
95-50-1	1,2-Dichlorobenzene	3.0	U	1.2	3.0
96-12-8	1,2-Dibromo-3-chloropropane	3.0	U	1.3	3.0
120-82-1	1,2,4-Trichlorobenzene	3.0	U	2.3	3.0
87-68-3	Hexachlorobutadiene	3.0	U	2.1	3.0
87-61-6	1,2,3-Trichlorobenzene	3.0	U	3.0	3.0
91-20-3	**Naphthalene**	**23**	**D**	**2.5**	**3.0**

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D
Date : 28-JAN-2005 18:02
Client ID: CEF-CSDUP-01DL
Sample Info: ,D0058-11ADL,,16653,6
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D
Report Date: 01-Feb-2005 13:03

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D
Lab Smp Id: D0058-11ADL Client Smp ID: CEF-CSDUP-01DL
Inj Date : 28-JAN-2005 18:02
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-11ADL,,16653,6
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 14
Dil Factor: 6.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	6.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.047	6.049	(0.887)	561897	4.47873	4
$ 23 1,2-Dichloroethane-d4	102	6.428	6.422	(0.943)	75309	4.27065	4
* 26 Fluorobenzene	96	6.816	6.810	(1.000)	2123653	5.00000	
$ 33 Toluene-d8	98	8.689	8.691	(1.275)	2153810	5.12280	5
* 43 Chlorobenzene-d5	117	10.523	10.524	(1.000)	1093273	5.00000	
46 Ethylbenzene	106	10.702	10.703	(1.017)	331608	2.43498	15
47 m,p-Xylene	106	10.857	10.851	(1.032)	149655	0.92639	6
M 60 Xylene (Total)	106				149655	0.92639	6
51 Isopropylbenzene	105	11.805	11.806	(0.885)	470518	1.35181	8
$ 52 Bromofluorobenzene	95	11.976	11.977	(1.138)	516370	4.47866	4
56 n-Propylbenzene	120	12.302	12.296	(0.923)	230044	2.30243	14
58 1,3,5-Trimethylbenzene	105	12.504	12.506	(0.938)	450866	1.51753	9
62 1,2,4-Trimethylbenzene	105	12.947	12.949	(0.971)	4653497	17.2709	100
63 sec-Butylbenzene	105	13.141	13.143	(0.985)	545889	1.57098	9
65 4-Isopropyltoluene	119	13.312	13.314	(0.998)	333799	1.25944	8
* 66 1,4-Dichlorobenzene-d4	152	13.336	13.337	(1.000)	407753	5.00000	(Q)

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D
Report Date: 01-Feb-2005 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
68 n-Butylbenzene	91	13.779	13.780	(1.033)	415334	1.89604	11(Q)
73 Naphthalene	128	15.807	15.808	(1.185)	219459	3.88776	23

QC Flag Legend

Q - Qualifier signal failed the ratio test.

2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

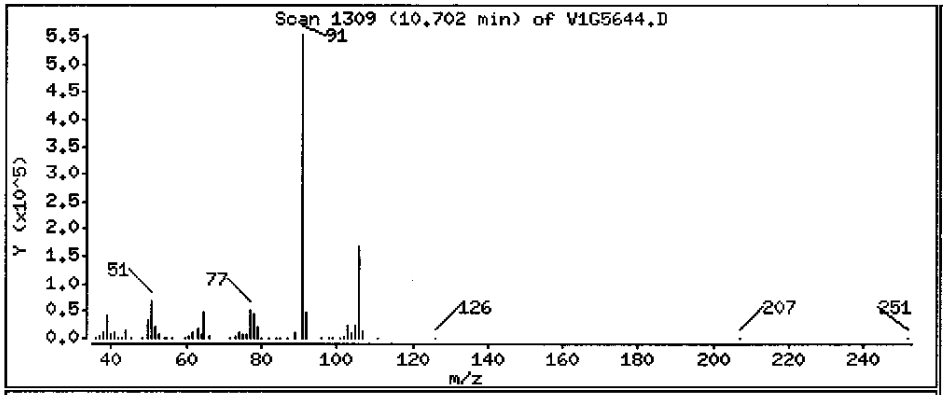
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

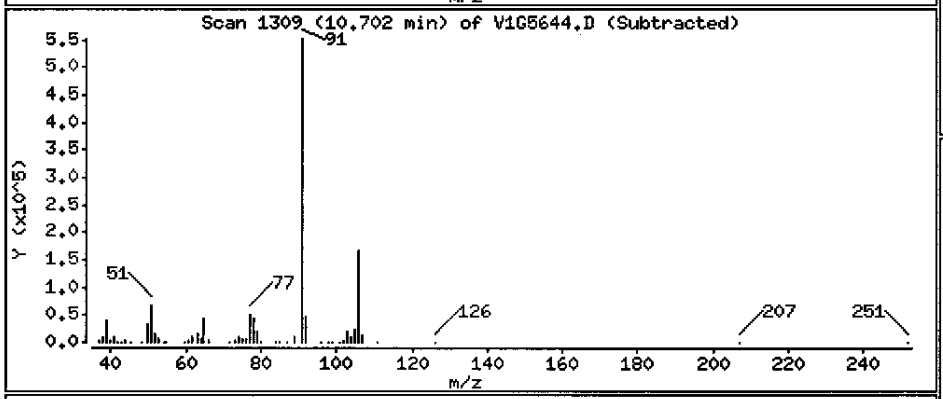
Sample Info: ,D0058-11ADL,,16653,6

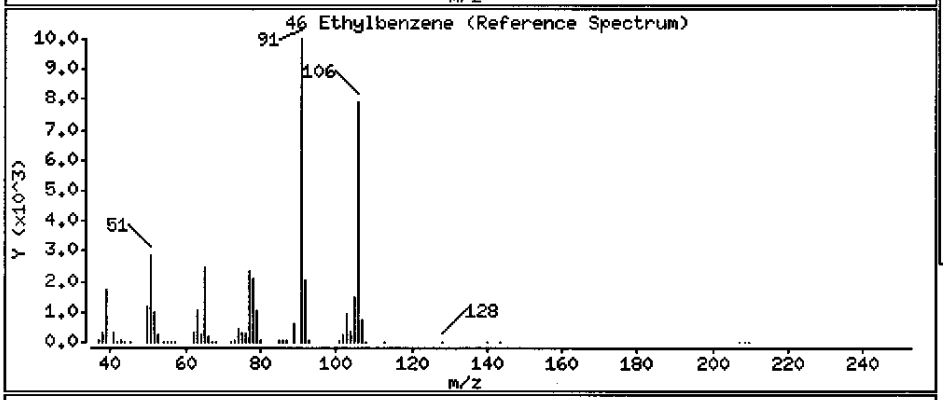
Purge Volume: 25.0 | Operator: MS SRC: LIMS

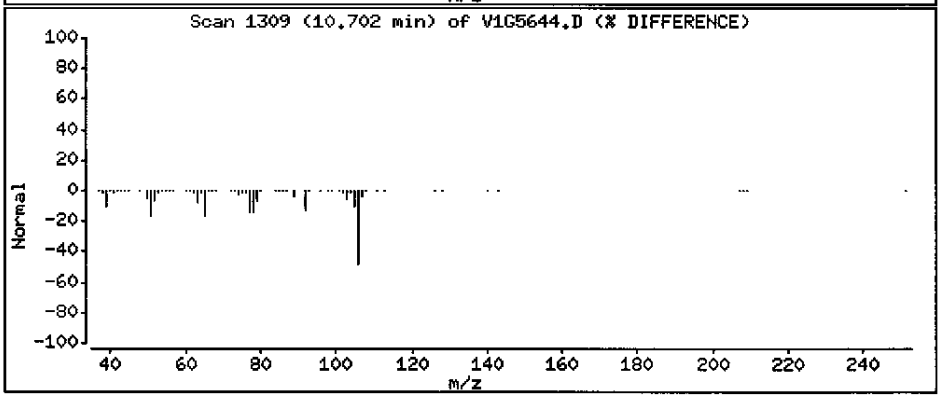
Column phase: DB-624 | Column diameter: 0.25

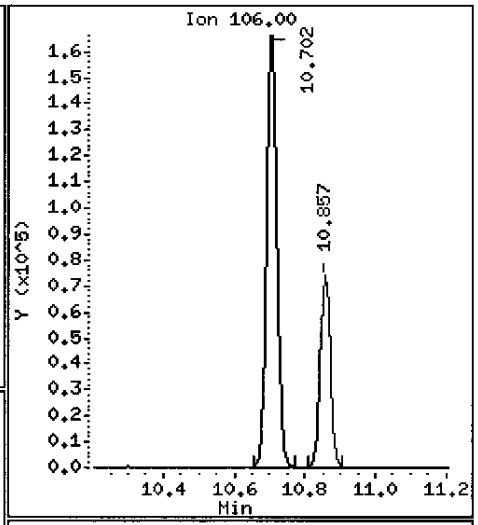
46 Ethylbenzene | Concentration: 15 ug/L

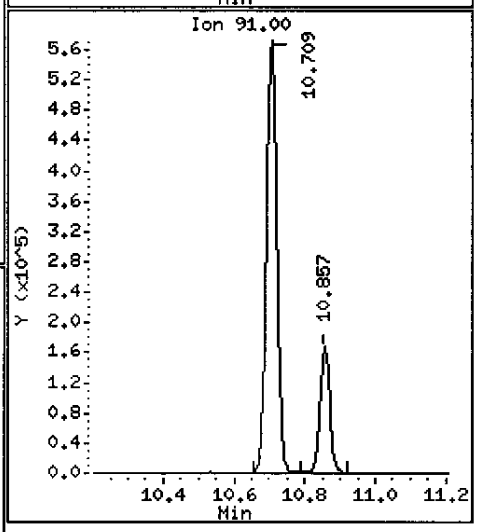












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Date : 28-JAN-2005 18:02

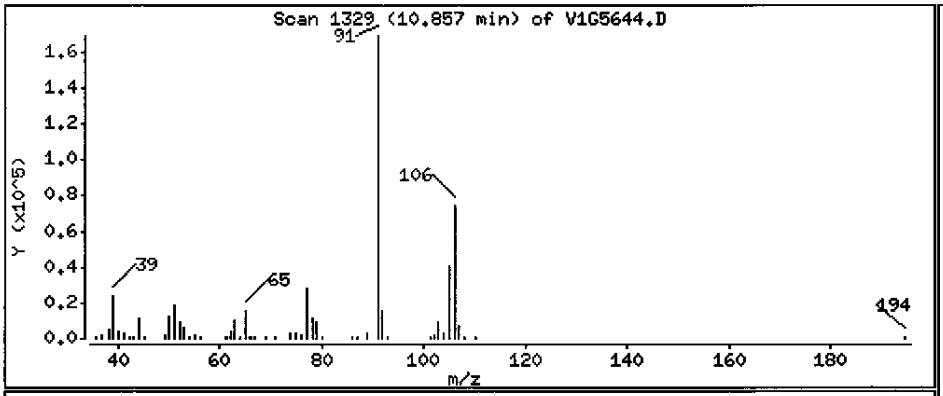
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

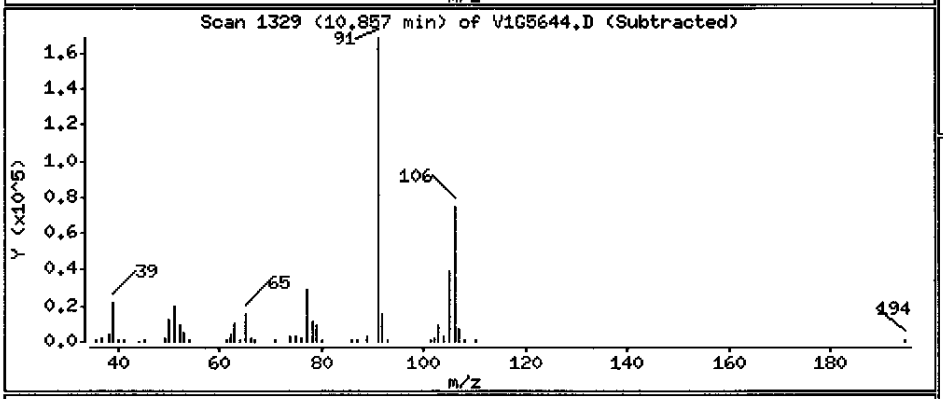
Sample Info: ,D0058-11ADL,,16653,6

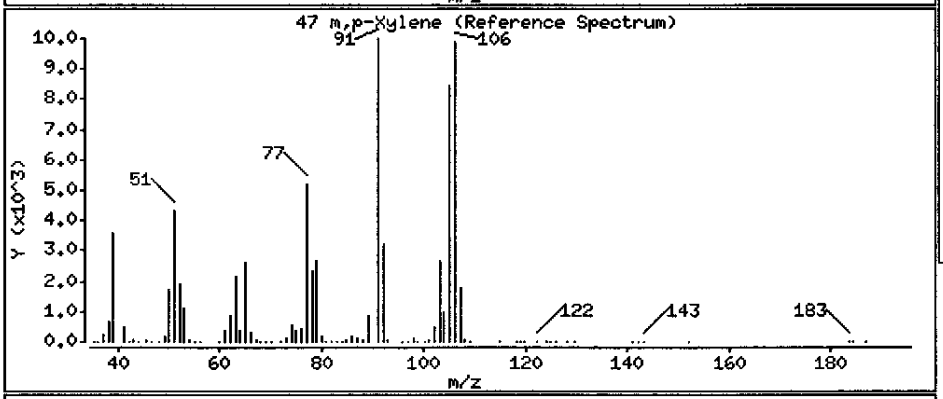
Purge Volume: 25.0 | Operator: MS SRC: LIMS

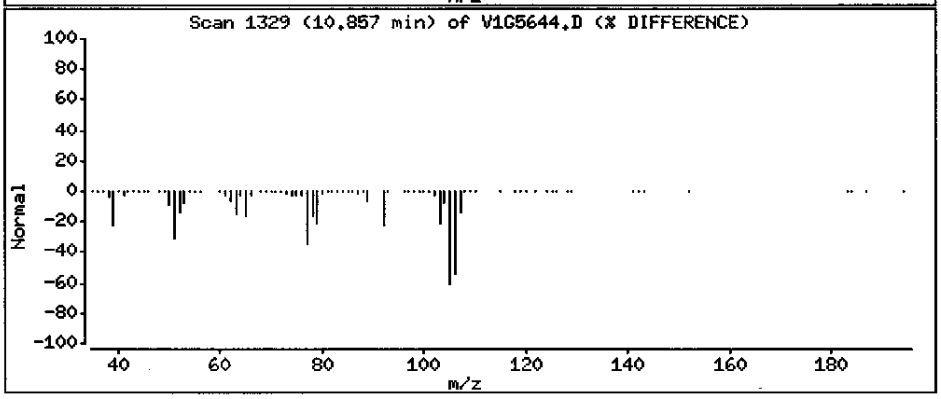
Column phase: DB-624 | Column diameter: 0.25

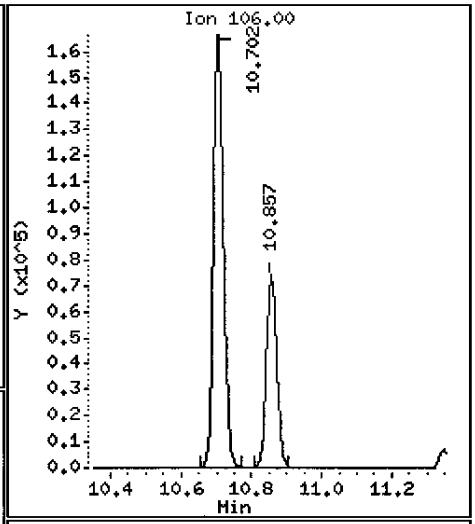
47 m,p-Xylene | Concentration: 6 ug/L

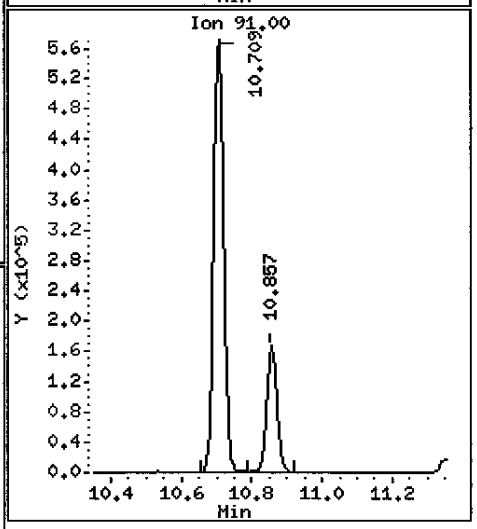












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

Client ID: CEF-CSDUP-01DL

Instrument: v1.i

Sample Info: ,D0058-11ADL,,16653,6

Purge Volume: 25.0

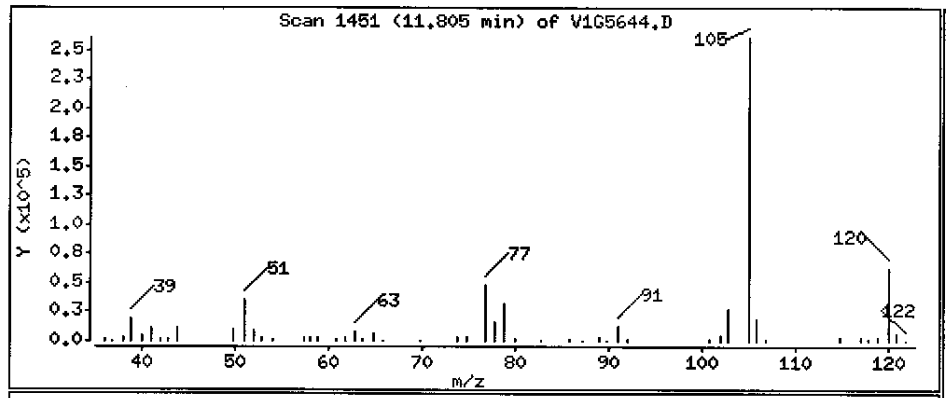
Operator: MS SRC: LIMS

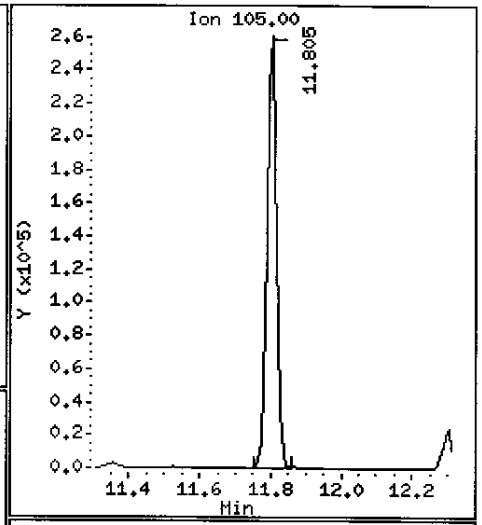
Column phase: DB-624

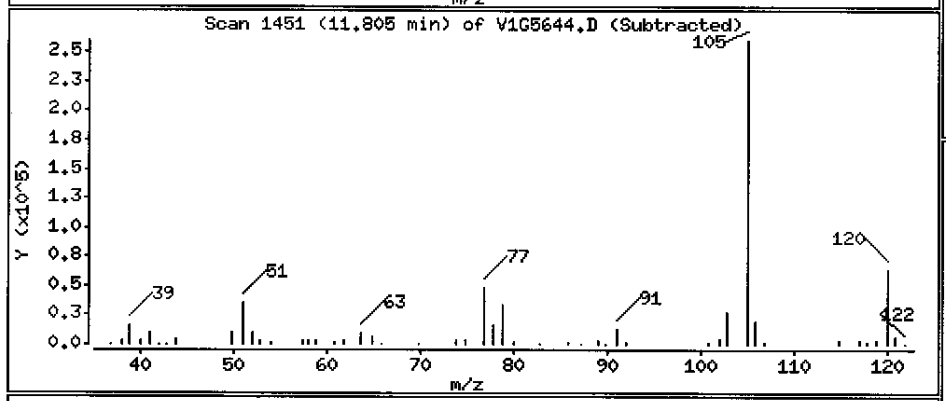
Column diameter: 0.25

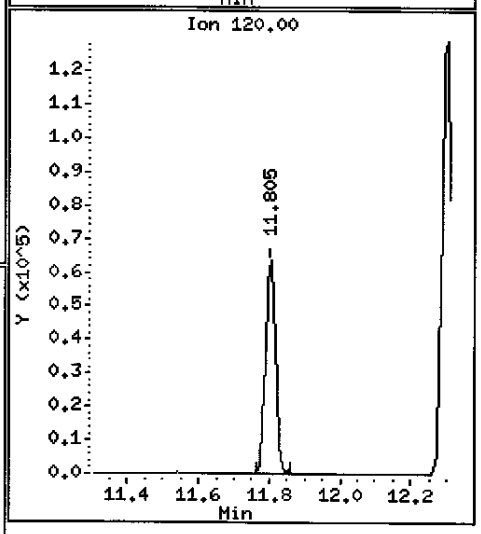
51 Isopropylbenzene

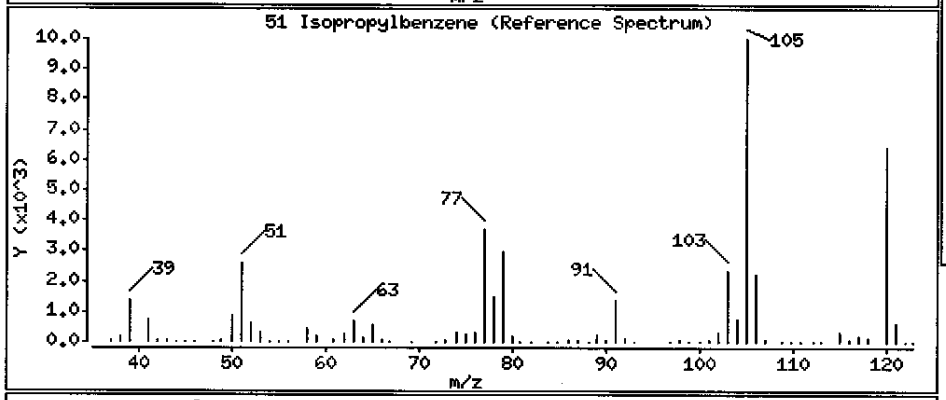
Concentration: 8 ug/L

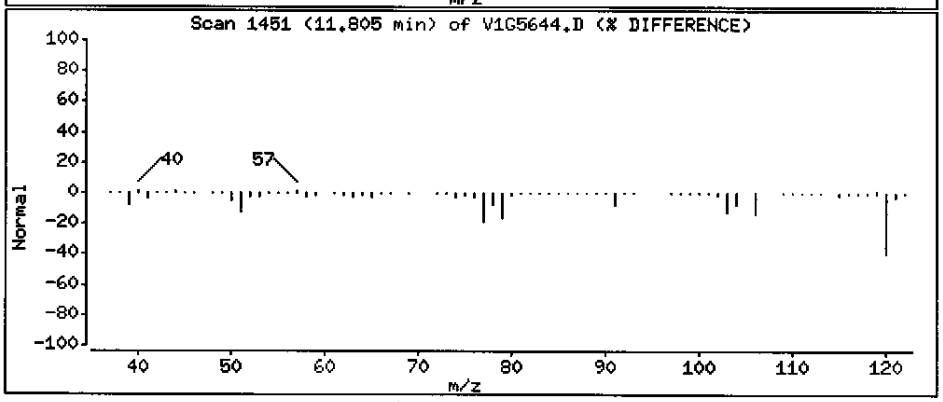












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

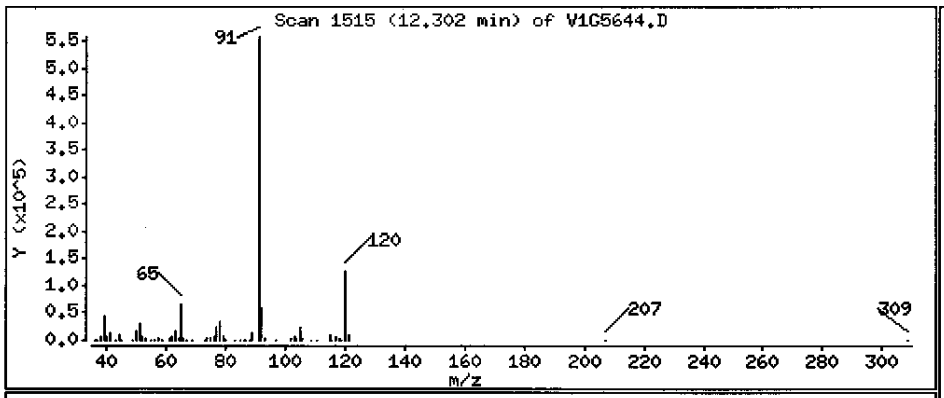
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

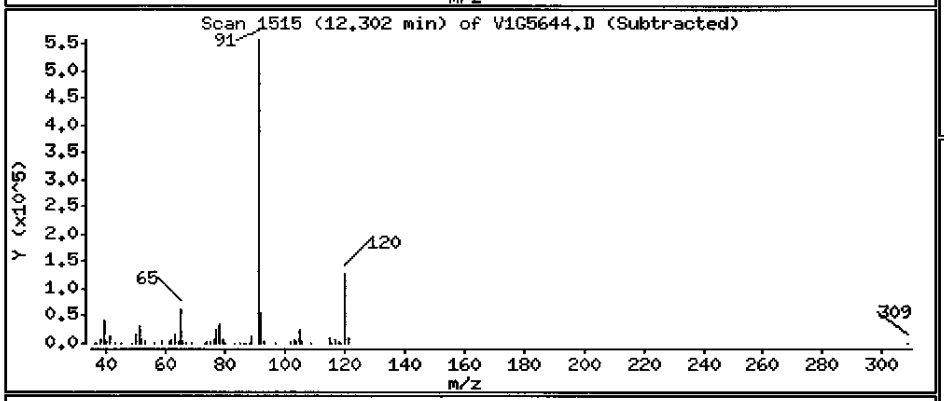
Sample Info: ,D0058-11ADL,,16653,6

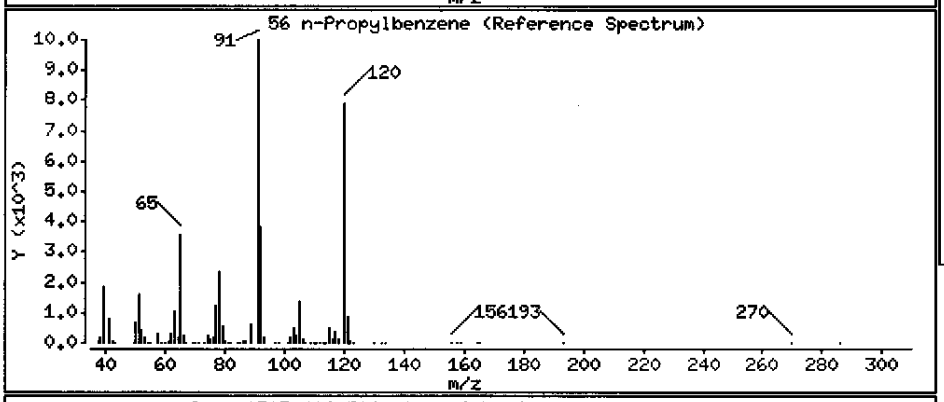
Purge Volume: 25.0 | Operator: MS SRC: LIMS

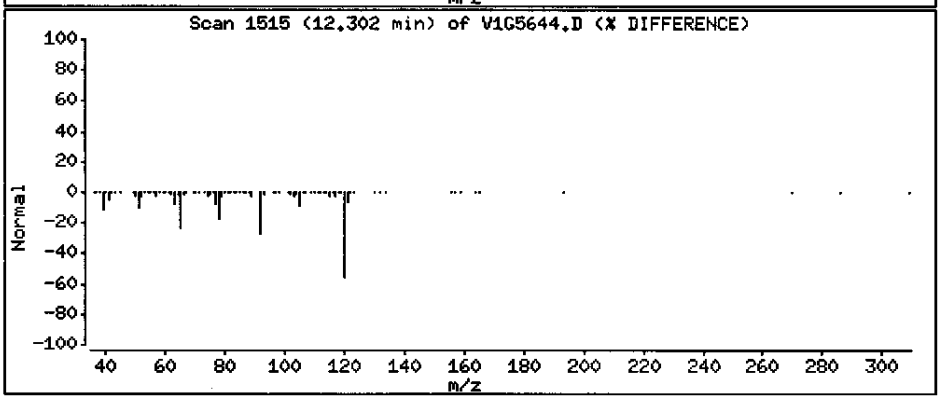
Column phase: DB-624 | Column diameter: 0.25

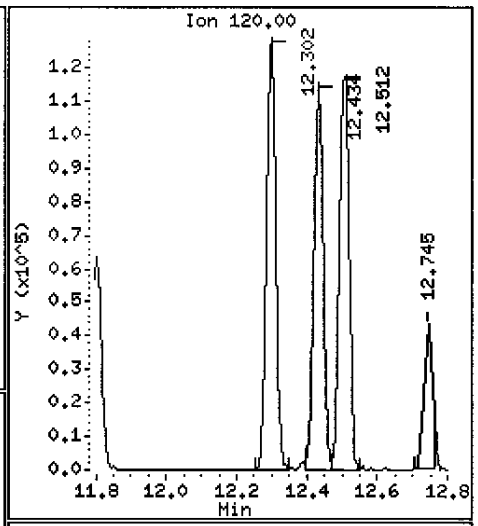
56 n-Propylbenzene | Concentration: 14 ug/L

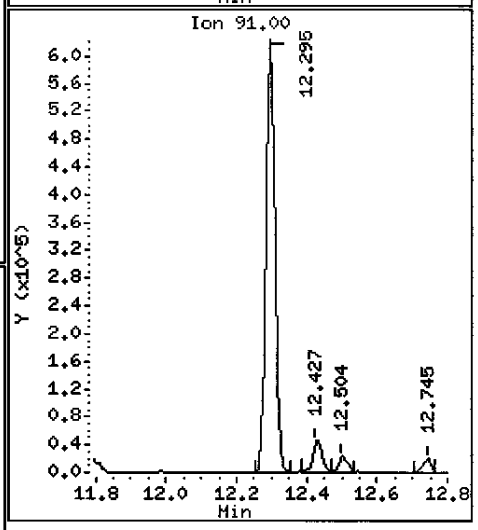












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

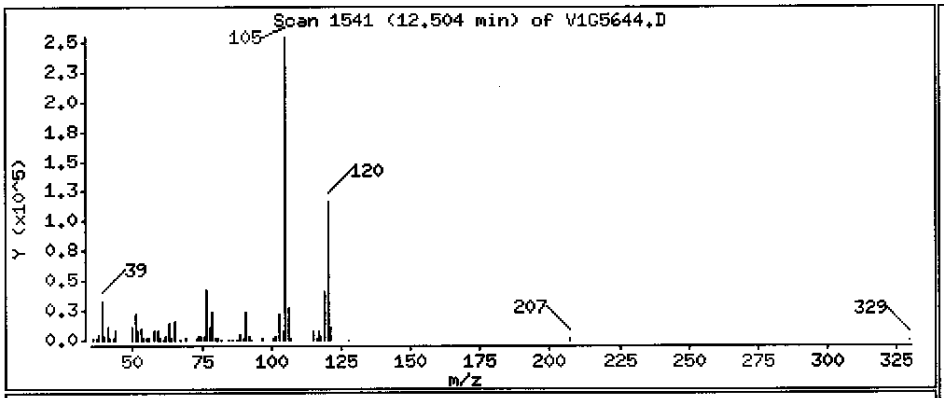
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

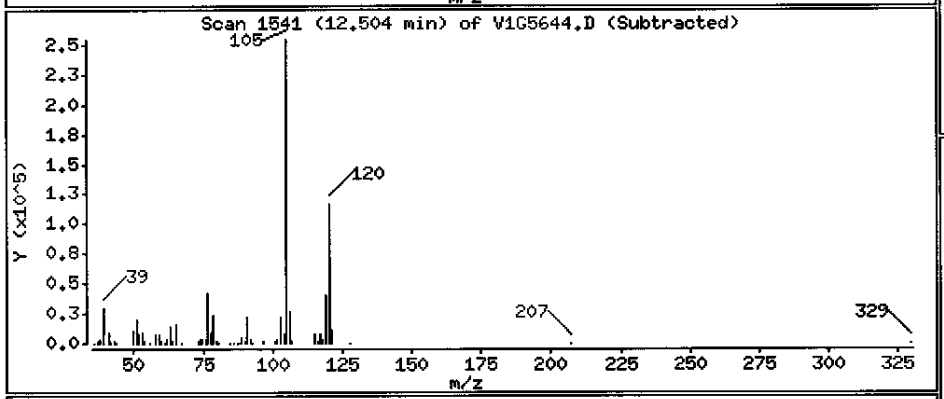
Sample Info: ,D0058-11ADL,,16653,6

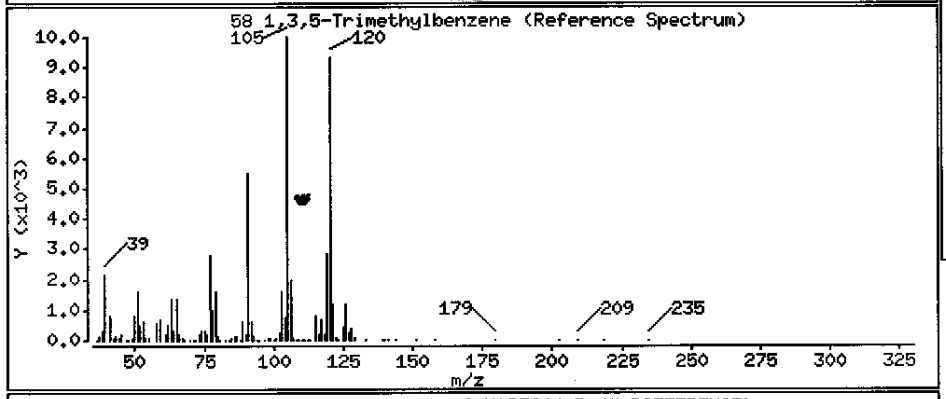
Purge Volume: 25.0 | Operator: MS SRC: LIMS

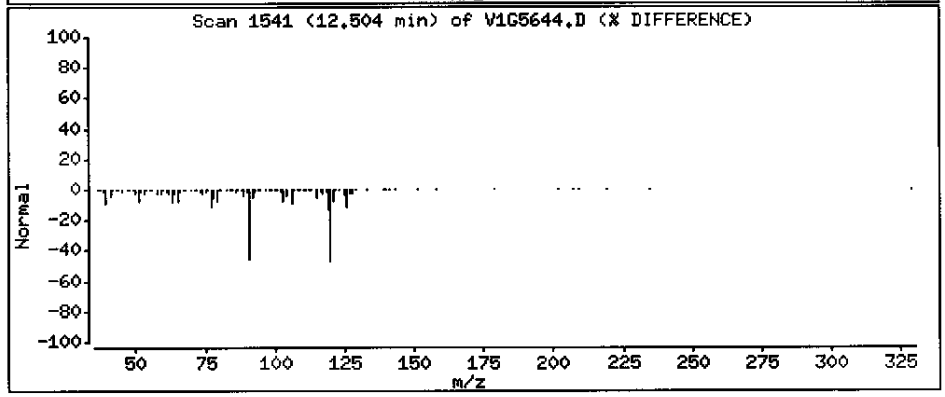
Column phase: DB-624 | Column diameter: 0.25

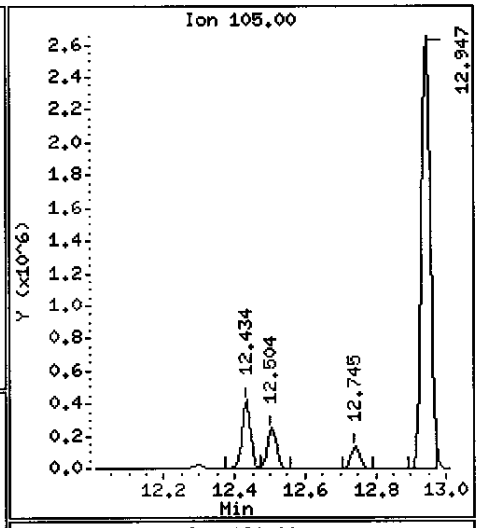
58 1,3,5-Trimethylbenzene | Concentration: 9 ug/L

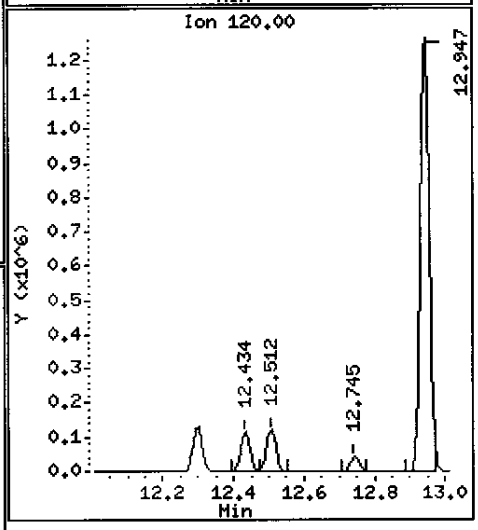












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

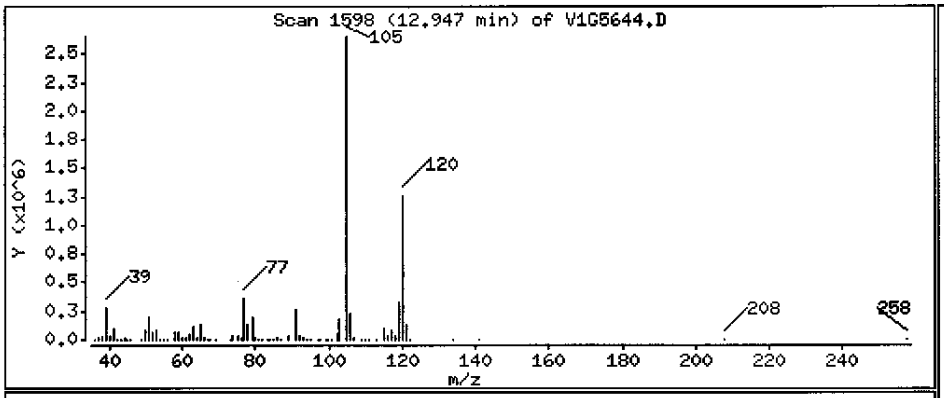
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

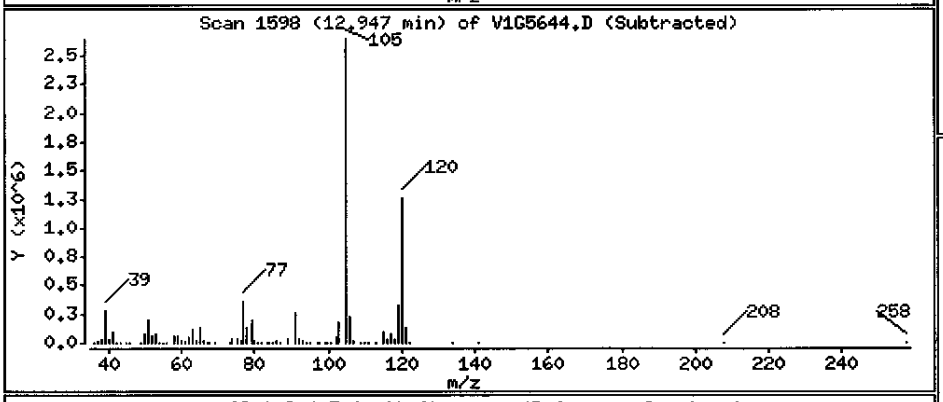
Sample Info: ,D0058-11ADL,,16653,6

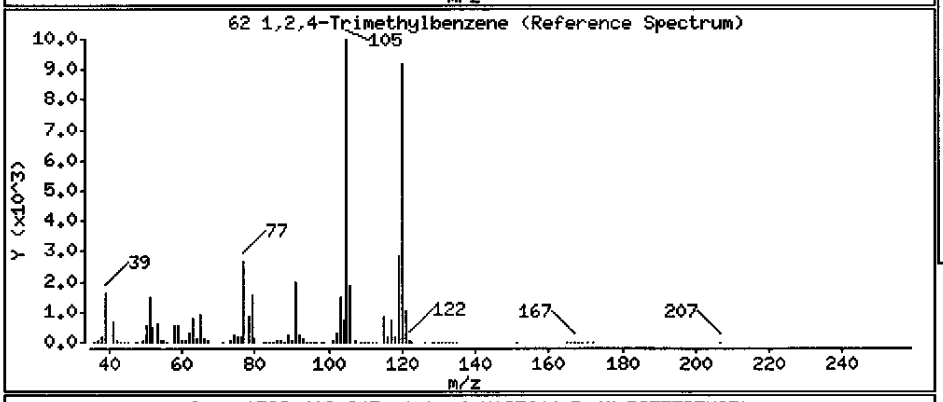
Purge Volume: 25.0 | Operator: MS SRC: LIMS

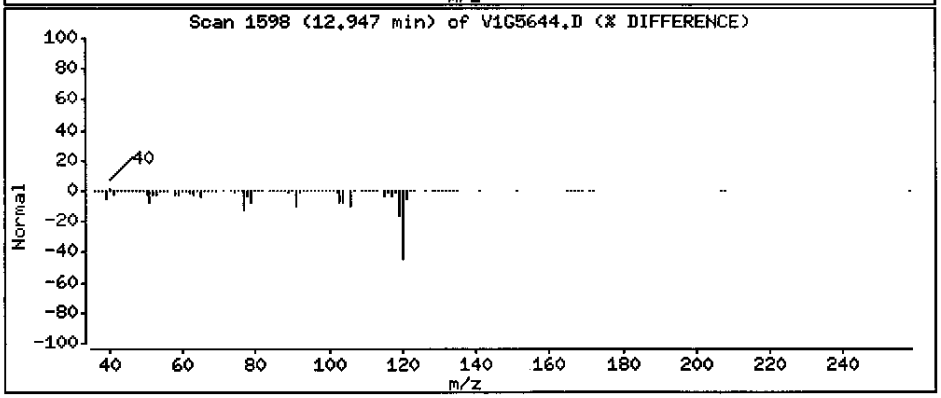
Column phase: DB-624 | Column diameter: 0.25

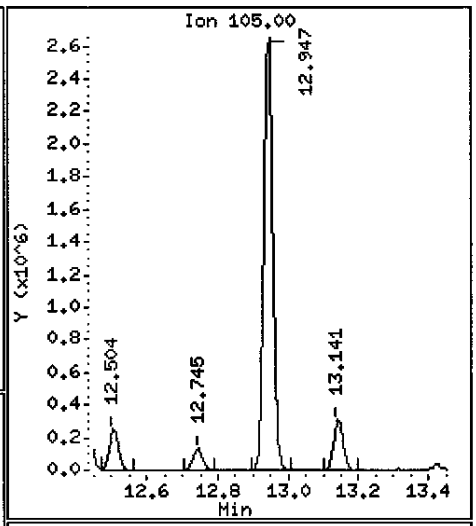
62 1,2,4-Trimethylbenzene | Concentration: 100 ug/L

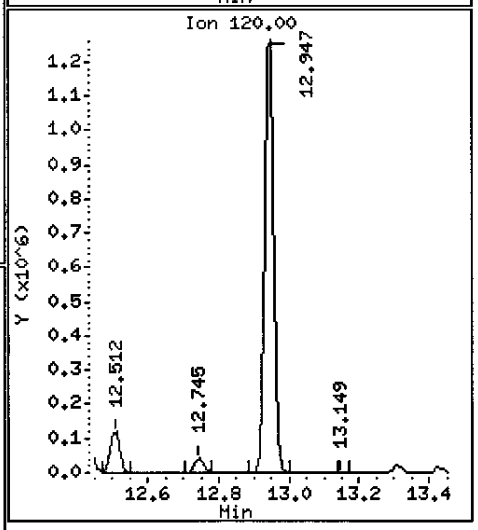












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

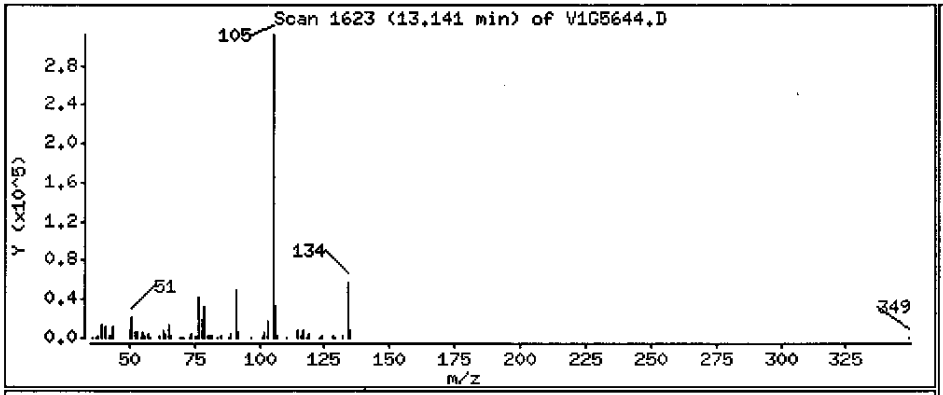
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

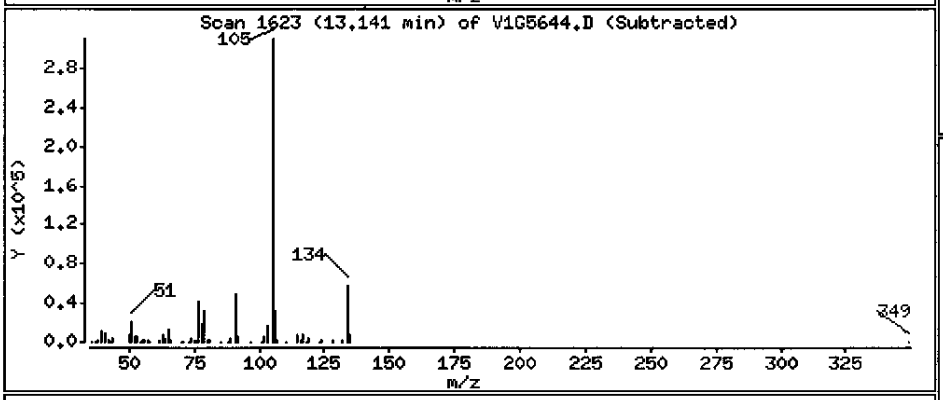
Sample Info: ,D0058-11ADL,,16653,6

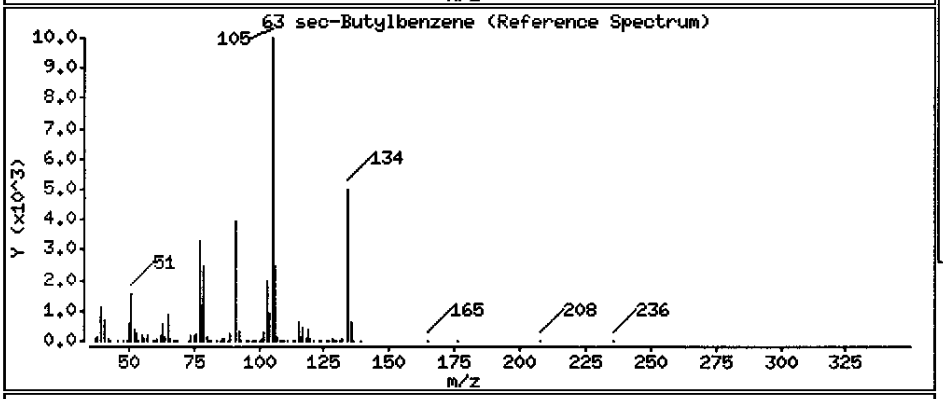
Purge Volume: 25.0 | Operator: MS SRC: LIMS

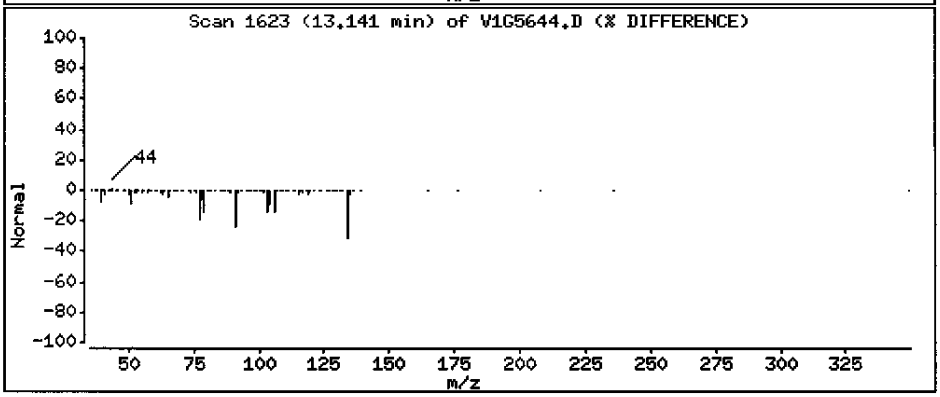
Column phase: DB-624 | Column diameter: 0.25

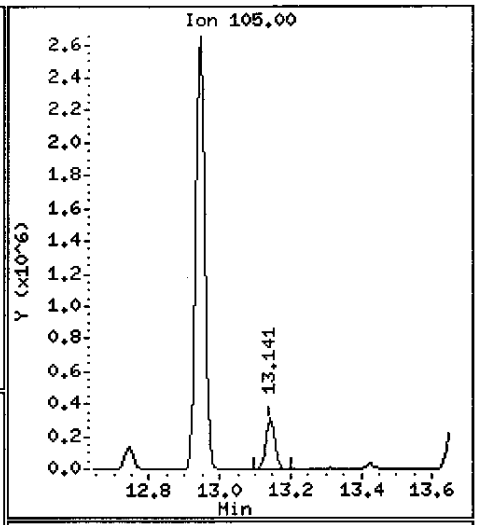
63 sec-Butylbenzene | Concentration: 9 ug/L

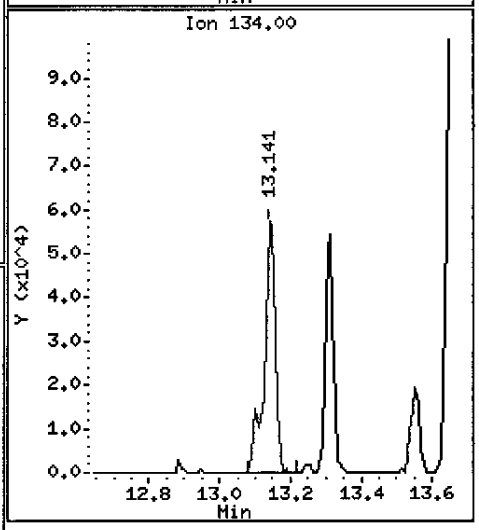












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

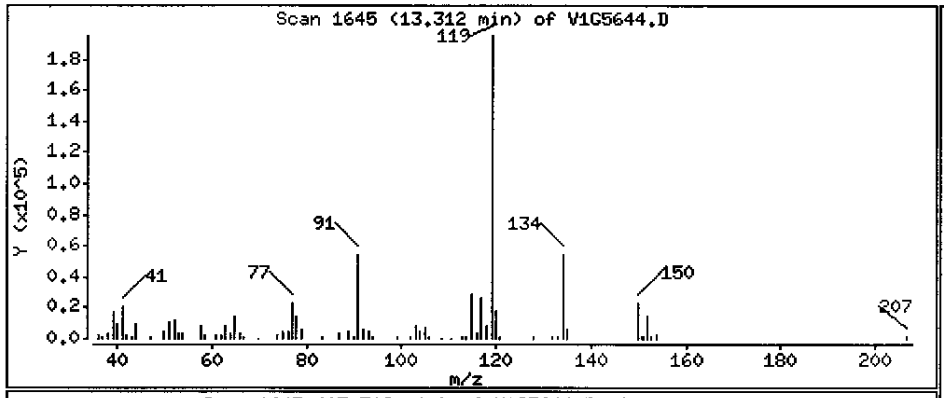
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

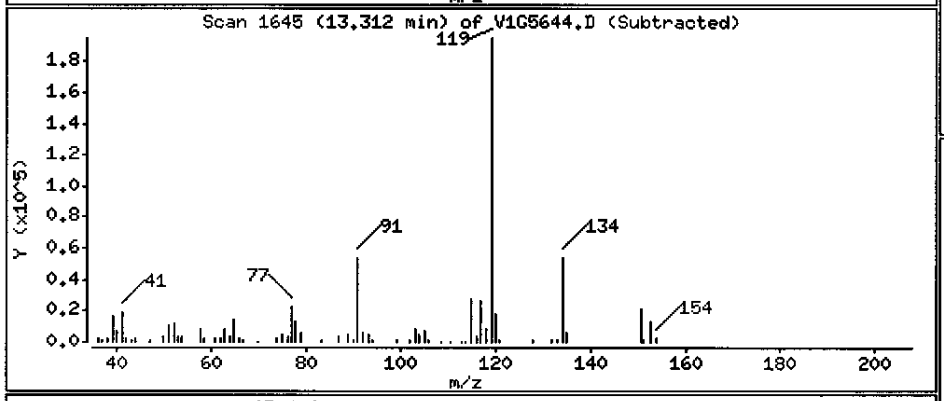
Sample Info: ,D0058-11ADL,,16653,6

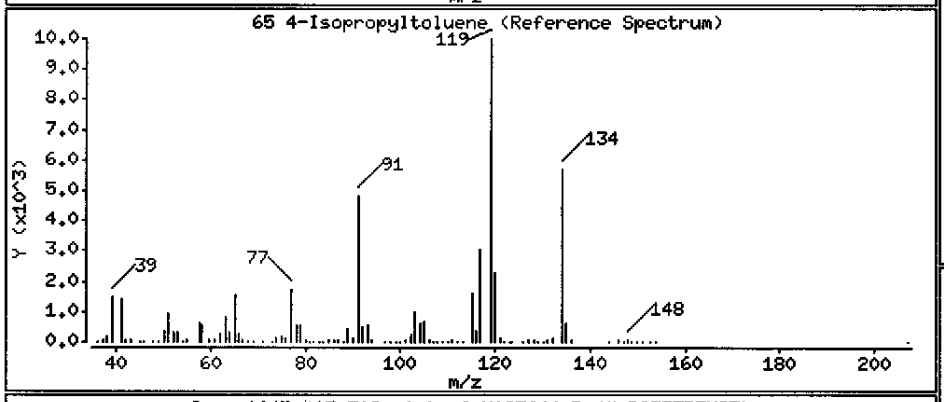
Purge Volume: 25.0 | Operator: MS SRC: LIMS

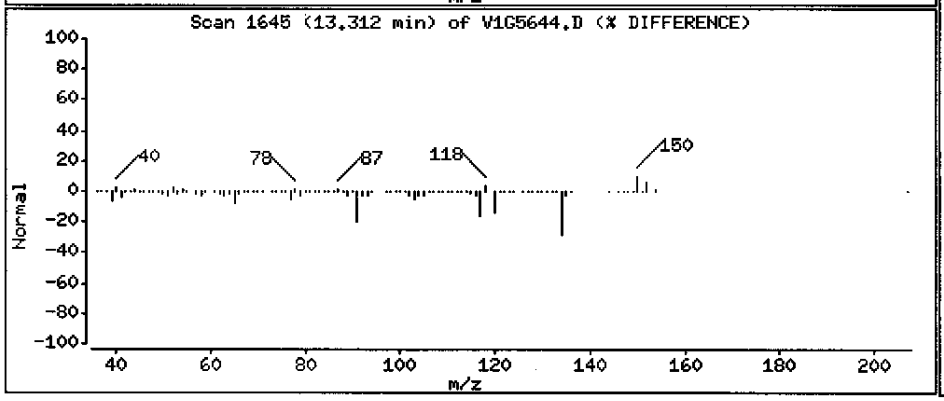
Column phase: DB-624 | Column diameter: 0.25

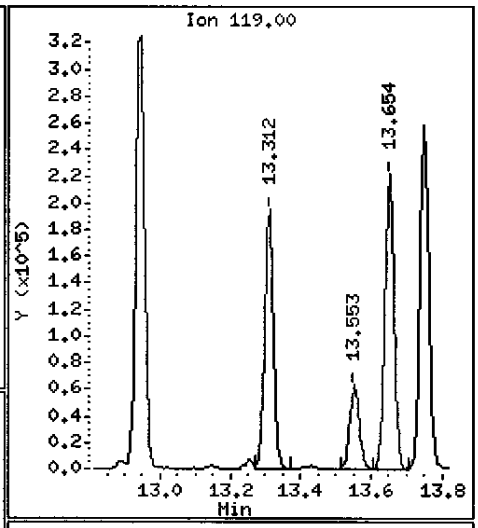
65 4-Isopropyltoluene | Concentration: 8 ug/L

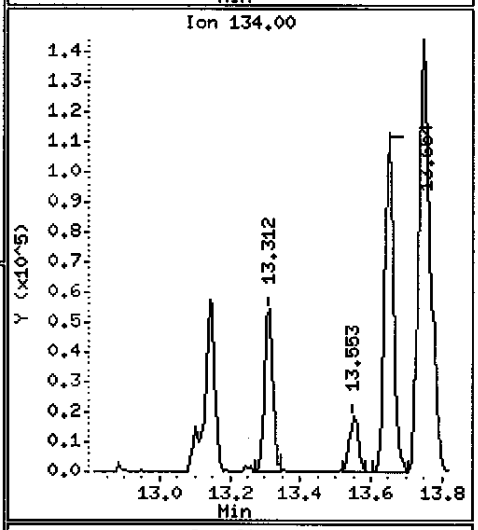


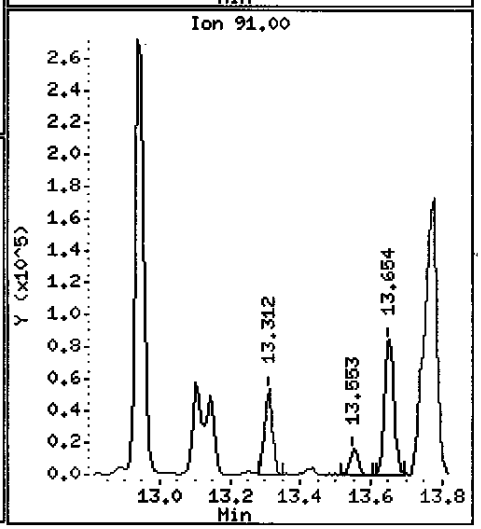












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

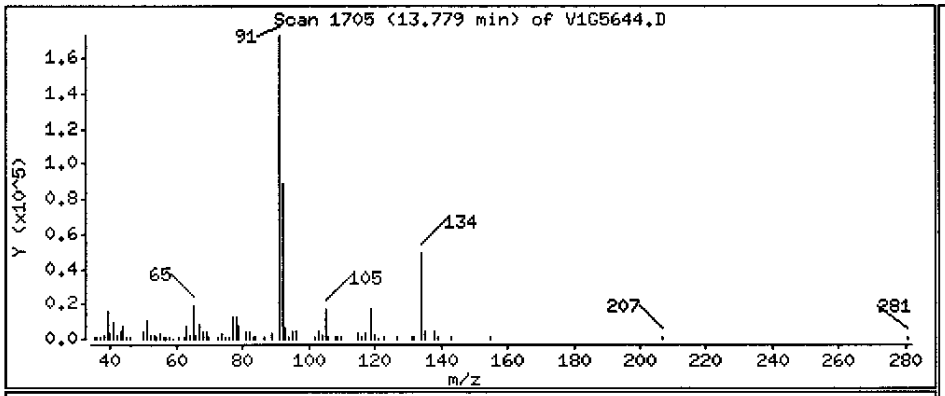
Client ID: CEF-CSDUP-01DL | Instrument: v1.i

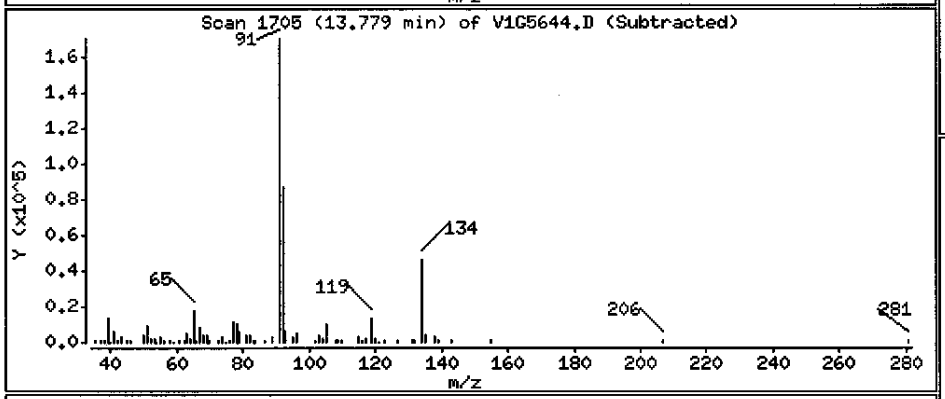
Sample Info: ,D0058-11ADL,,16653,6

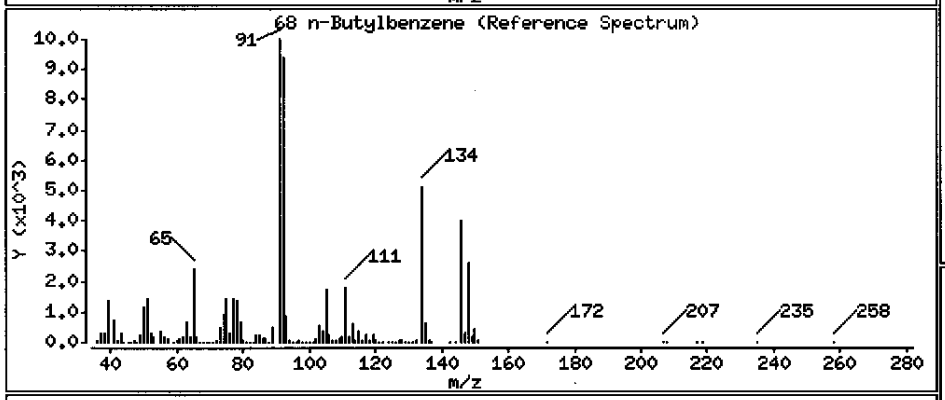
Purge Volume: 25.0 | Operator: MS SRC: LIMS

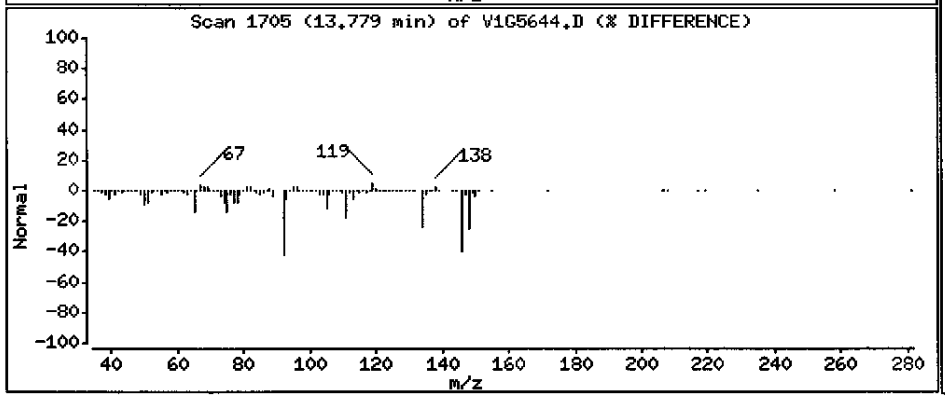
Column phase: DB-624 | Column diameter: 0.25

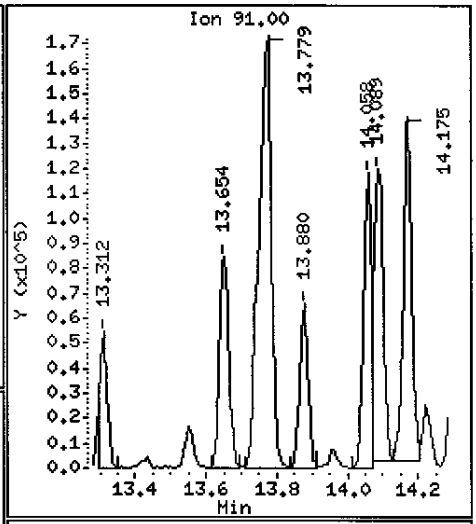
68 n-Butylbenzene | Concentration: 11 ug/L

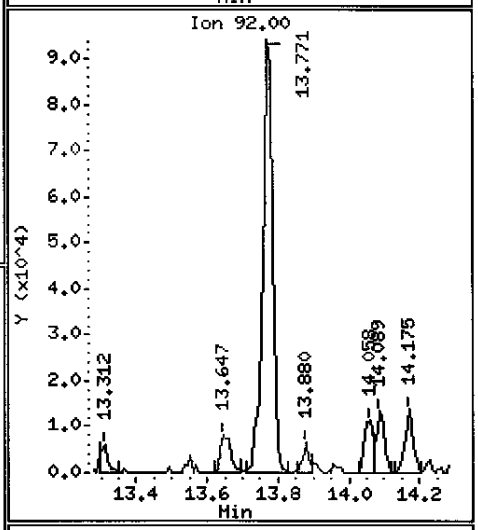


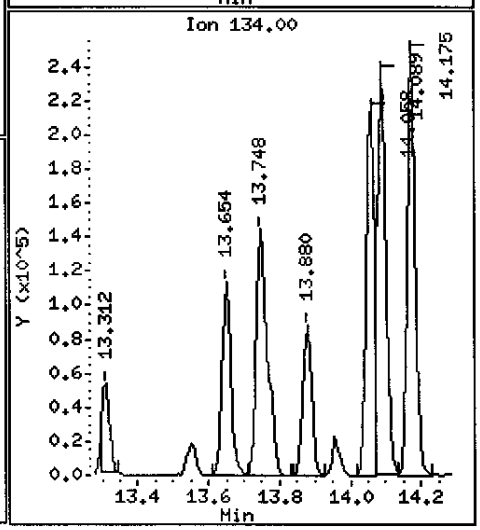












Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5644.D

Date : 28-JAN-2005 18:02

Client ID: CEF-CSDUP-01DL

Instrument: v1.i

Sample Info: ,D0058-11ADL,,16653,6

Purge Volume: 25.0

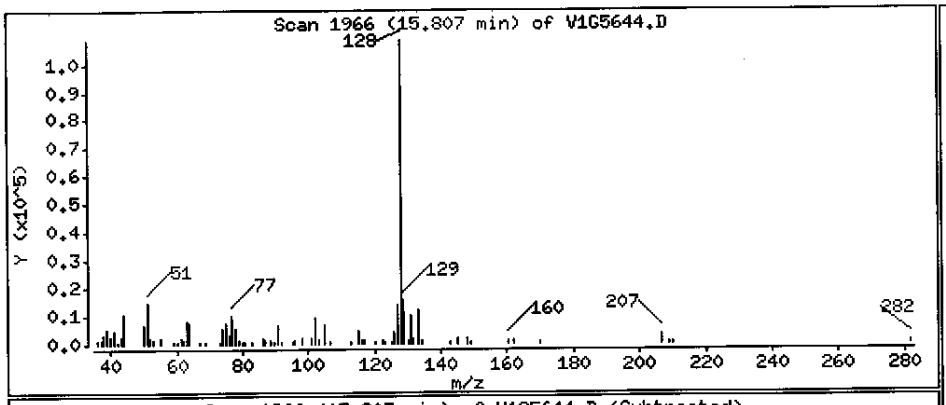
Operator: MS SRC: LIMS

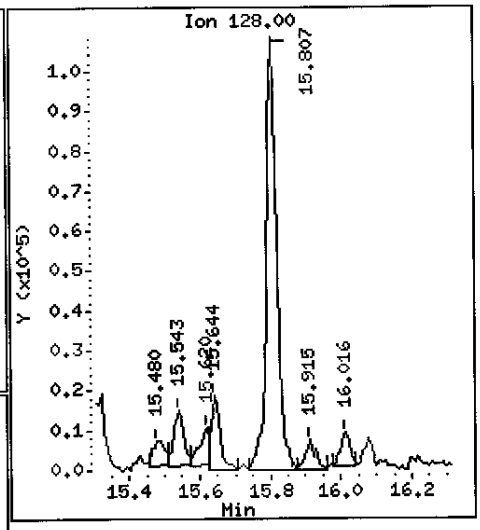
Column phase: DB-624

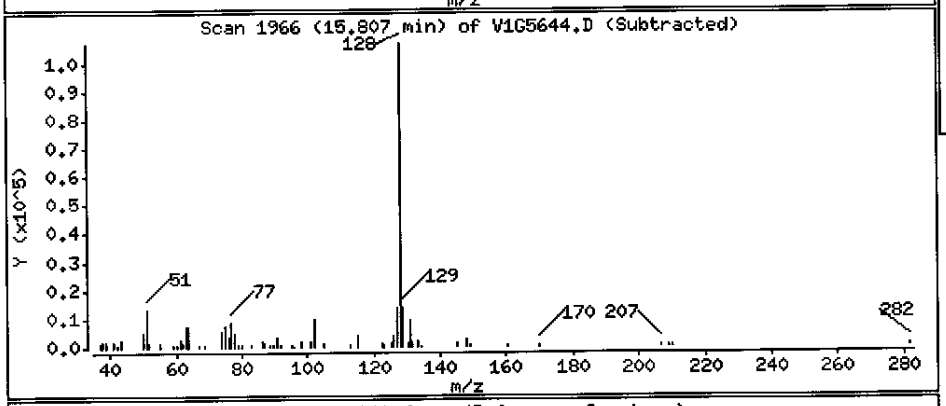
Column diameter: 0.25

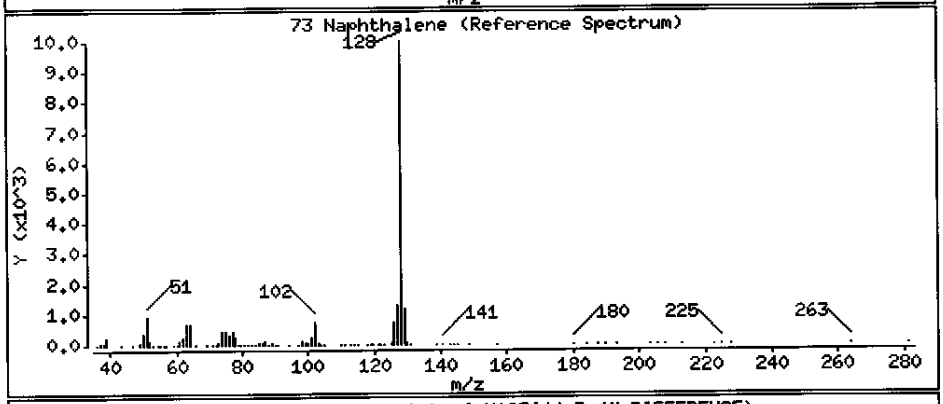
73 Naphthalene

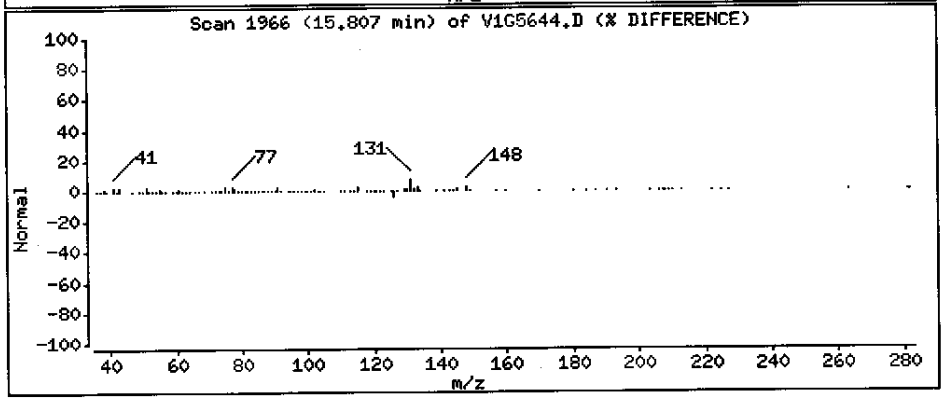
Concentration: 23 ug/L











Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.51 V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D
VSTD0801 V1G5586.D

COMPOUND		VSTD0.51P	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P					RRF	% RSD	R^2
Dichlorodifluoromethane	*	0.268	0.299	0.315	0.31	0.296						0.298	6.2 *	
Chloromethane	*	0.561	0.647	0.624	0.642	0.638						0.622	5.7 *	
Vinyl chloride	*	0.496	0.558	0.551	0.569	0.559						0.547	5.3 *	
Bromomethane	*	0.327	0.388	0.376	0.384	0.331						0.361	8.3 *	
Chloroethane	*	0.297	0.325	0.317	0.32	0.305						0.313	3.7 *	
Trichlorofluoromethane	*	0.222	0.353	0.339	0.369	0.363						0.329	18.5 *	
1,1-Dichloroethene	*	0.265	0.324	0.301	0.316	0.314						0.304	7.7 *	
Acetone	*		0.043	0.035	0.03	0.029	0.027					0.033	19.6 *	
Carbon disulfide	*	1.001	1.125	1.077	1.117	1.004						1.065	5.6 *	
Methylene chloride	*	0.366	0.304	0.294	0.297	0.292						0.311	10 *	
trans-1,2-Dichloroethene	*	0.285	0.343	0.333	0.355	0.353						0.334	8.5 *	
Methyl tert-butyl ether	*	0.311	0.38	0.356	0.381	0.38						0.362	8.4 *	
1,1-Dichloroethane	*	0.635	0.678	0.654	0.666	0.634						0.653	2.9 *	
2-Butanone	*		0.055	0.048	0.054	0.051	0.052					0.052	5.3 *	
cis-1,2-Dichloroethene	*	0.28	0.319	0.315	0.326	0.325						0.313	6 *	
2,2-Dichloropropane	*	0.439	0.478	0.502	0.5	0.498						0.483	5.5 *	
Bromochloromethane	*	0.083	0.114	0.112	0.112	0.113						0.107	12.6 *	
Chloroform	*	0.91	0.649	0.565	0.576	0.545						0.649	23.3 *	
1,1,1-Trichloroethane	*	0.364	0.475	0.446	0.463	0.454						0.44	10 *	
1,1-Dichloropropene	*	0.113	0.151	0.144	0.156	0.156						0.144	12.5 *	
Carbon tetrachloride	*	0.307	0.395	0.386	0.39	0.385						0.373	9.9 *	
1,2-Dichloroethane	*	0.221	0.248	0.247	0.248	0.235						0.24	5 *	
Benzene	*	1.22	1.408	1.343	1.295	0.909						1.235	15.8 *	
Trichloroethene	*	0.286	0.348	0.33	0.345	0.339						0.33	7.6 *	
1,2-Dichloropropane	*	0.271	0.301	0.294	0.306	0.297						0.294	4.6 *	

SW8260B

Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.5I V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D
VSTD0801 V1G5586.D

COMPOUND		VSTD0.5IP	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P				RRF	% RSD		R^2
Dibromomethane	*	0.077	0.106	0.101	0.1	0.1					0.097	11.8	*	
Bromodichloromethane	*	0.276	0.316	0.31	0.319	0.313					0.307	5.7	*	
cis-1,3-Dichloropropene	*	0.279	0.328	0.339	0.361	0.364					0.334	10.3	*	
4-Methyl-2-pentanone	*		0.086	0.081	0.094	0.095	0.105				0.092	10	*	
Toluene	*	1.006	1.246	1.19	1.177	0.827					1.089	15.8	*	
trans-1,3-Dichloropropene	*	0.163	0.217	0.226	0.241	0.245					0.218	15.2	*	
1,1,2-Trichloroethane	*	0.092	0.112	0.109	0.113	0.112					0.108	8	*	
1,3-Dichloropropane	*	0.376	0.415	0.381	0.41	0.398					0.396	4.3	*	
Tetrachloroethene	*	0.407	0.47	0.432	0.464	0.441					0.443	5.8	*	
2-Hexanone	*		0.086	0.073	0.09	0.092	0.1				0.088	11.2	*	
Dibromochloromethane	*	0.229	0.277	0.258	0.284	0.277					0.265	8.5	*	
1,2-Dibromoethane	*	0.165	0.197	0.175	0.196	0.19					0.185	7.6	*	
Chlorobenzene	*	1.122	1.2	1.103	1.182	1.039					1.129	5.7	*	
1,1,1,2-Tetrachloroethane	*	0.35	0.393	0.368	0.4	0.38					0.378	5.2	*	
Ethylbenzene	*	0.474	0.65	0.63	0.692	0.668					0.623	13.8	*	
m,p-Xylene		0.601	0.833	0.79	0.838	0.633					0.739	15.4		
o-Xylene		0.501	0.736	0.72	0.784	0.754					0.699	16.2		
Styrene	*	0.685	1.034	1.008	1.117	0.995					0.968	17	*	
Bromoform	*	0.096	0.114	0.11	0.124	0.119					0.113	9.6	*	
Isopropylbenzene	*	1.194	1.829	1.761	1.838	1.27					1.578	20.2	*	
1,1,2,2-Tetrachloroethane	*	0.491	0.558	0.539	0.539	0.546					0.535	4.8	*	
Bromobenzene	*	0.862	0.987	0.961	0.989	0.982					0.956	5.6	*	
1,2,3-Trichloropropane	*	0.519	0.633	0.589	0.621	0.618					0.596	7.7	*	
n-Propylbenzene	*	0.902	1.306	1.244	1.328	1.345					1.225	15.1	*	
2-Chlorotoluene	*	1.08	1.274	1.199	1.257	1.257					1.213	6.6	*	

SW8260B

Form 6

VOC by GC-MS (25 mL Purge) INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract: Mitkem Corporation

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: V1 Calibration Dates: 01/26/2005 01/26/2005

Heated Purge: (Y/N) N Calibration Times: 15:58 18:34

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: VSTD0.51 V1G5582.D VSTD0041 V1G5585.D VSTD0101 V1G5581.D VSTD0201 V1G5584.D VSTD0401 V1G5583.D
VSTD0801 V1G5586.D

COMPOUND		VSTD0.51P	VSTD0041P	VSTD0101P	VSTD0201P	VSTD0401P	VSTD0801P			RRF	% RSD		R^2
1,3,5-Trimethylbenzene	*	3.036	4.233	3.962	4.01	2.974				3.643	16.2	*	
4-Chlorotoluene	*	0.922	1.21	1.124	1.175	1.172				1.121	10.3	*	
tert-Butylbenzene	*	3.061	4.15	3.859	4.008	3.195				3.655	13.5	*	
1,2,4-Trimethylbenzene	*	2.507	3.873	3.618	3.675	2.847				3.304	17.9	*	
sec-Butylbenzene	*	3.591	4.99	4.785	4.695	3.243				4.261	18.5	*	
4-Isopropyltoluene	*	2.519	3.705	3.563	3.634	2.828				3.25	16.6	*	
1,3-Dichlorobenzene	*	1.883	2.069	1.931	2.042	1.929				1.971	4.1	*	
1,4-Dichlorobenzene	*	1.828	1.909	1.798	1.892	1.816				1.849	2.6	*	
n-Butylbenzene	*	1.953	2.843	2.848	3.137	2.65				2.686	16.6	*	
1,2-Dichlorobenzene	*	1.38	1.601	1.508	1.575	1.535				1.52	5.7	*	
1,2-Dibromo-3-chloropropane	*	0.063	0.057	0.054	0.056	0.056				0.057	5.7	*	
1,2,4-Trichlorobenzene	*	0.532	0.633	0.573	0.706	0.719				0.633	12.9	*	
Hexachlorobutadiene	*	0.65	0.571	0.441	0.493	0.481				0.527	15.8	*	
1,2,3-Trichlorobenzene	*	0.513	0.522	0.452	0.538	0.546				0.514	7.2	*	
Naphthalene	*	0.586	0.721	0.579	0.774	0.801				0.692	15	*	
Xylene (Total)	*	0.567	0.801	0.767	0.82	0.673				0.726	14.5	*	
Dibromofluoromethane	*	0.257	0.3	0.3	0.311	0.309				0.295	7.4	*	
1,2-Dichloroethane-d4	*	0.034	0.043	0.043	0.043	0.044				0.041	10.6	*	
Toluene-d8	*	0.948	1.074	1.055	1.068	0.805				0.99	11.7	*	
Bromofluorobenzene	*	0.486	0.54	0.511	0.567	0.533				0.527	5.8	*	

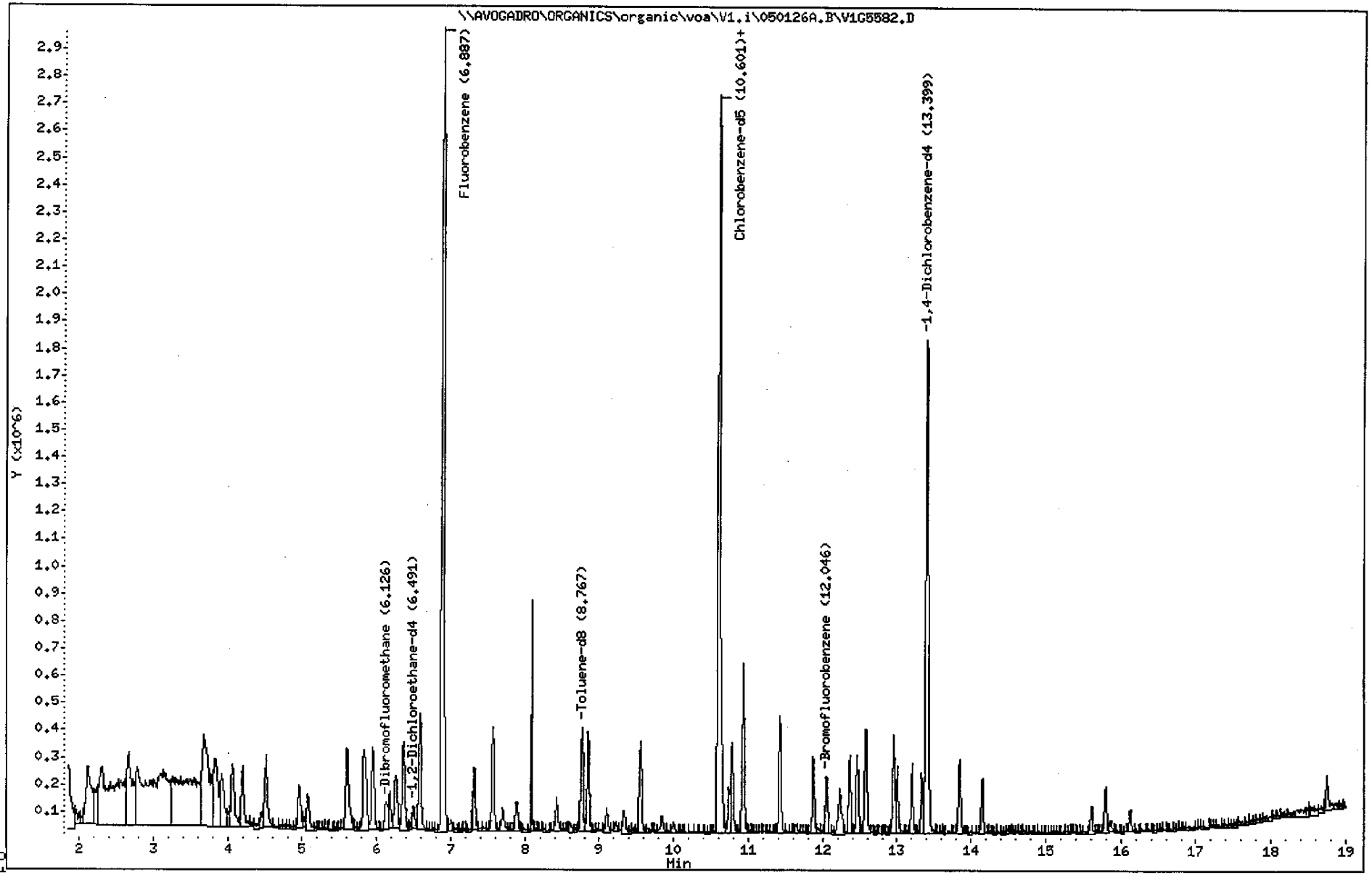
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

SW8260B

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5582.D
Date : 26-JAN-2005 16:29
Client ID: VSTD0.51P
Sample Info: ,VSTD0.51P,VSTD0.51P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



0140

Data File: V1G5582.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5582.D
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Inj Date : 26-JAN-2005 16:29
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0.51P,VSTD0.51P
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 16:29 Cal File: V1G5582.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				959173	3.50000	3
M 119 1,2-Dichloroethene (Total)	100				168764	1.00000	0.9
1 Dichlorodifluoromethane	85	1.953	1.964	(0.284)	79851	0.50000	0.4(a)
2 Chloromethane	50	2.108	2.150	(0.306)	167326	0.50000	0.5
3 Vinyl Chloride	62	2.295	2.313	(0.333)	148060	0.50000	0.5
4 Bromomethane	94	2.668	2.671	(0.387)	97472	0.50000	0.5
5 Chloroethane	64	2.784	2.788	(0.404)	88534	0.50000	0.5
6 Trichlorofluoromethane	101	3.095	3.137	(0.449)	66271	0.50000	0.4(a)
7 1,1-Dichloroethene	96	3.670	3.673	(0.533)	79031	0.50000	0.5
123 Carbon Disulfide	76	3.919	3.914	(0.569)	298655	0.50000	0.5
9 Methylene Chloride	84	4.199	4.194	(0.610)	109061	0.50000	0.6
121 Acetone	43	3.709	3.712	(0.539)	29447	0.50000	1(a)
10 trans-1,2-Dichloroethene	96	4.509	4.505	(0.655)	85122	0.50000	0.5
11 Methyl tert-butyl ether	73	4.533	4.528	(0.658)	92634	0.50000	0.5
12 1,1-Dichloroethane	63	4.960	4.955	(0.720)	189417	0.50000	0.5
13 cis-1,2-Dichloroethene	96	5.597	5.593	(0.813)	83641	0.50000	0.5

Data File: V1G5582.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 2,2-Dichloropropane	77	5.613	5.608	(0.815)	130847	0.50000	0.5
	14 2-Butanone	43	5.605	5.608	(0.814)	14326	0.50000	0.5(a)
	16 Bromochloromethane	128	5.861	5.857	(0.851)	24660	0.50000	0.4(a)
	17 Chloroform	83	5.947	5.942	(0.863)	271526	0.50000	0.6
$	18 Dibromofluoromethane	113	6.126	6.121	(0.889)	76799	0.50000	0.5
	20 1,1,1-Trichloroethane	97	6.172	6.168	(0.896)	108526	0.50000	0.4(a)
	21 1,1-Dichloropropene	110	6.351	6.346	(0.922)	33754	0.50000	0.4(a)
	22 Carbon Tetrachloride	117	6.374	6.362	(0.926)	91575	0.50000	0.4(a)
$	23 1,2-Dichloroethane-d4	102	6.491	6.486	(0.942)	9998	0.50000	0.4(a)
	25 Benzene	78	6.584	6.579	(0.956)	363885	0.50000	0.5
	24 1,2-Dichloroethane	62	6.584	6.579	(0.956)	65834	0.50000	0.5
*	26 Fluorobenzene	96	6.887	6.882	(1.000)	2982566	5.00000	
	27 Trichloroethene	130	7.314	7.318	(1.062)	85439	0.50000	0.5
	28 1,2-Dichloropropane	63	7.571	7.566	(1.099)	80758	0.50000	0.5
	29 Dibromomethane	93	7.711	7.698	(1.120)	22917	0.50000	0.4(a)
	30 Bromodichloromethane	83	7.889	7.885	(1.146)	82397	0.50000	0.5
	31 cis-1,3-Dichloropropene	75	8.433	8.421	(1.225)	83229	0.50000	0.4(a)
	32 4-Methyl-2-pentanone	43	8.612	8.607	(1.250)	26185	0.50000	0.5(a)
$	33 Toluene-d8	98	8.767	8.763	(1.273)	282717	0.50000	0.5
	34 Toluene	91	8.853	8.848	(1.285)	299998	0.50000	0.4(a)
	35 trans-1,3-Dichloropropene	75	9.109	9.097	(1.323)	48490	0.50000	0.4(a)
	36 1,1,2-Trichloroethane	97	9.335	9.330	(1.355)	27562	0.50000	0.4(a)
	38 Tetrachloroethene	164	9.552	9.548	(0.901)	64932	0.50000	0.5
	37 1,3-Dichloropropane	76	9.552	9.548	(0.901)	60092	0.50000	0.5
	122 2-Hexanone	43	9.646	9.649	(1.401)	11838	0.50000	0.5(a)
	40 Dibromochloromethane	129	9.848	9.843	(0.929)	36500	0.50000	0.5(T)
	41 1,2-Dibromoethane	107	9.995	9.998	(0.943)	26350	0.50000	0.5(T)
*	43 Chlorobenzene-d5	117	10.601	10.597	(1.000)	1596076	5.00000	
	42 1-Chlorohexane	91	10.609	10.604	(1.540)	80152	0.50000	0.4(a)
	44 Chlorobenzene	112	10.640	10.635	(1.004)	179094	0.50000	0.5
	45 1,1,1,2-Tetrachloroethane	131	10.733	10.736	(1.012)	55924	0.50000	0.5
	46 Ethylbenzene	106	10.780	10.775	(1.017)	75660	0.50000	0.4(a)
	47 m,p-Xylene	106	10.928	10.923	(1.031)	191693	1.00000	0.9
	48 o-Xylene	106	11.425	11.420	(1.078)	79981	0.50000	0.4(a)
	49 Styrene	104	11.433	11.428	(1.078)	109381	0.50000	0.4(a)
	50 Bromoform	173	11.642	11.646	(0.868)	15281	0.50000	0.5(T)
	51 Isopropylbenzene	105	11.868	11.871	(0.885)	190625	0.50000	0.4(a)
$	52 Bromofluorobenzene	95	12.054	12.050	(1.137)	77609	0.50000	0.5
	53 1,1,2,2-Tetrachloroethane	83	12.210	12.205	(0.911)	26800	0.50000	0.5
	54 Bromobenzene	156	12.233	12.228	(0.912)	47084	0.50000	0.5
	55 1,2,3-Trichloropropane	75	12.264	12.259	(0.915)	28332	0.50000	0.5
	56 n-Propylbenzene	120	12.365	12.360	(0.922)	49265	0.50000	0.4(a)
	57 2-Chlorotoluene	126	12.466	12.461	(0.930)	58981	0.50000	0.5
	58 1,3,5-Trimethylbenzene	105	12.575	12.570	(0.938)	165766	0.50000	0.4(a)
	59 4-Chlorotoluene	126	12.583	12.586	(0.939)	50317	0.50000	0.4(a)
	61 tert-Butylbenzene	119	12.956	12.951	(0.966)	167111	0.50000	0.4(a)
	62 1,2,4-Trimethylbenzene	105	13.010	13.005	(0.970)	136848	0.50000	0.4(a)

Data File: V1G5582.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 sec-Butylbenzene	105	13.204	13.207	(0.985)	196045	0.50000	0.4(a)
	64 1,3-Dichlorobenzene	146	13.329	13.332	(0.994)	102816	0.50000	0.5
	65 4-Isopropyltoluene	119	13.375	13.371	(0.998)	137539	0.50000	0.4(a)
*	66 1,4-Dichlorobenzene-d4	152	13.406	13.402	(1.000)	545917	5.00000	
	67 1,4-Dichlorobenzene	146	13.430	13.433	(1.002)	99786	0.50000	0.5
M	60 Xylene (Total)	106				271674	1.50000	1
	68 n-Butylbenzene	91	13.834	13.837	(1.032)	106597	0.50000	0.4(a)
	69 1,2-Dichlorobenzene	146	13.849	13.852	(1.033)	75317	0.50000	0.5
	70 1,2-Dibromo-3-chloropropane	75	14.704	14.699	(1.097)	3415	0.50000	0.5
	71 1,2,4-Trichlorobenzene	180	15.605	15.608	(1.164)	29043	0.50000	0.5
	72 Hexachlorobutadiene	225	15.800	15.795	(1.179)	35511	0.50000	0.6
	73 Naphthalene	128	15.862	15.865	(1.183)	32012	0.50000	0.5
	74 1,2,3-Trichlorobenzene	180	16.126	16.129	(1.203)	28025	0.50000	0.5

QC Flag Legend

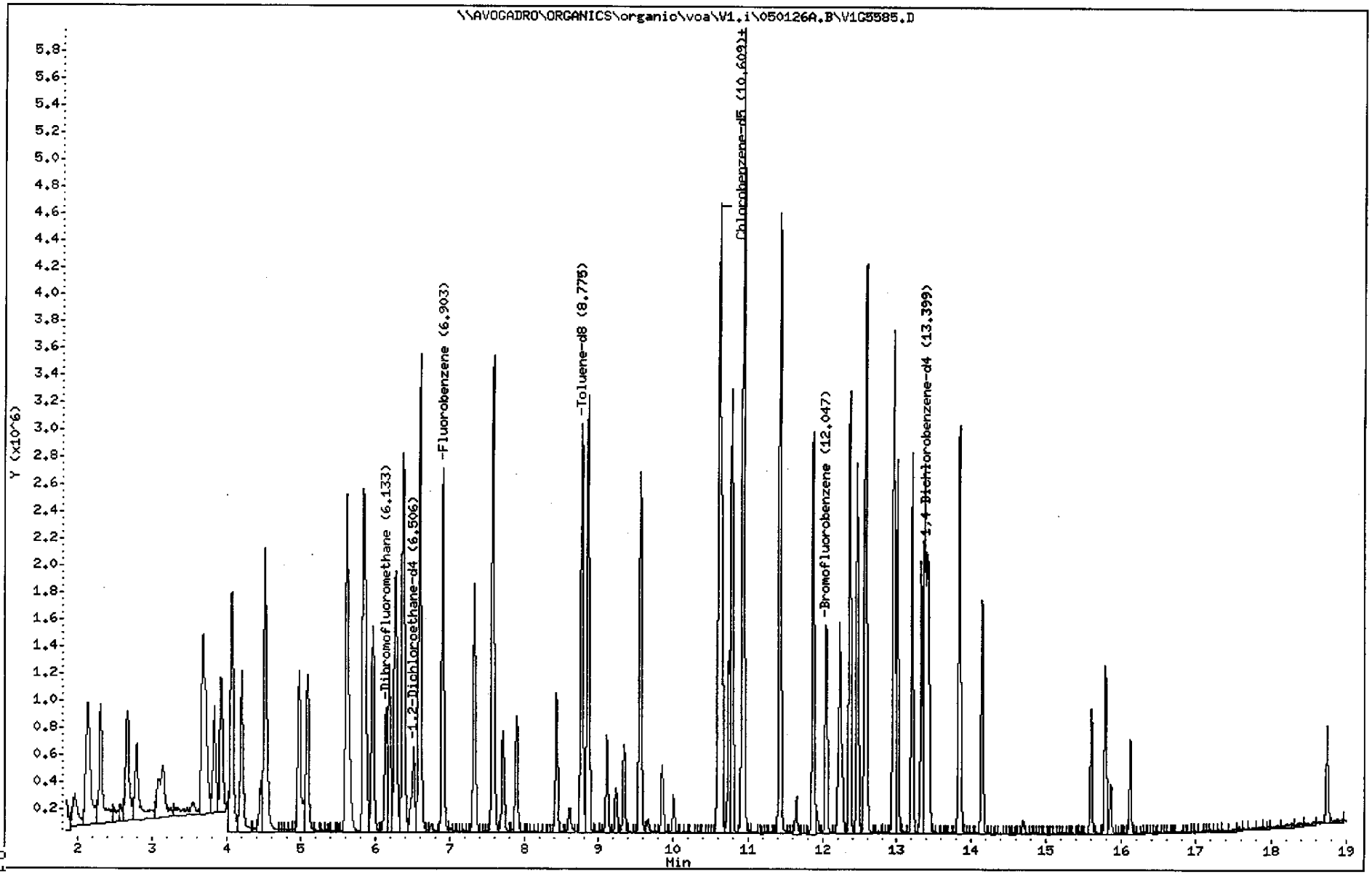
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5585.D
Date : 26-JAN-2005 18:03
Client ID: VSTD0041P
Sample Info: ,VSTD0041P,VSTD0041P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



0144

Data File: V1G5585.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5585.D
Lab Smp Id: VSTD0041P Client Smp ID: VSTD0041P
Inj Date : 26-JAN-2005 18:03
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0041P,VSTD0041P
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:03 Cal File: V1G5585.D
Als bottle: 13 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				11043479	28.0000	32
M 119 1,2-Dichloroethene (Total)	100				1417596	8.00000	8
1 Dichlorodifluoromethane	85	1.953	1.964	(0.283)	640715	4.00000	4
2 Chloromethane	50	2.140	2.150	(0.310)	1386882	4.00000	4
3 Vinyl Chloride	62	2.303	2.313	(0.334)	1196343	4.00000	4
4 Bromomethane	94	2.668	2.671	(0.386)	832113	4.00000	4
5 Chloroethane	64	2.792	2.788	(0.405)	695802	4.00000	4
6 Trichlorofluoromethane	101	3.150	3.137	(0.456)	756574	4.00000	4
7 1,1-Dichloroethene	96	3.686	3.673	(0.534)	694313	4.00000	4
123 Carbon Disulfide	76	3.919	3.914	(0.568)	2409897	4.00000	4
9 Methylene Chloride	84	4.206	4.194	(0.609)	651102	4.00000	4
121 Acetone	43	3.725	3.712	(0.540)	92484	4.00000	5
10 trans-1,2-Dichloroethene	96	4.517	4.505	(0.654)	735154	4.00000	4
11 Methyl tert-butyl ether	73	4.533	4.528	(0.657)	813181	4.00000	4
12 1,1-Dichloroethane	63	4.968	4.955	(0.720)	1451899	4.00000	4
13 cis-1,2-Dichloroethene	96	5.613	5.593	(0.813)	682442	4.00000	4

Data File: V1G5585.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 2,2-Dichloropropane	77	5.620	5.608	(0.814)	1023566	4.00000	4
	14 2-Butanone	43	5.620	5.608	(0.814)	118568	4.00000	4(a)
	16 Bromochloromethane	128	5.869	5.857	(0.850)	244854	4.00000	4
	17 Chloroform	83	5.962	5.942	(0.864)	1390889	4.00000	4
$	18 Dibromofluoromethane	113	6.133	6.121	(0.889)	641945	4.00000	4
	20 1,1,1-Trichloroethane	97	6.180	6.168	(0.895)	1016660	4.00000	4
	21 1,1-Dichloropropene	110	6.367	6.346	(0.922)	322779	4.00000	4
	22 Carbon Tetrachloride	117	6.374	6.362	(0.923)	845726	4.00000	4
$	23 1,2-Dichloroethane-d4	102	6.514	6.486	(0.944)	92106	4.00000	4
	25 Benzene	78	6.592	6.579	(0.955)	3016472	4.00000	4
	24 1,2-Dichloroethane	62	6.600	6.579	(0.956)	531168	4.00000	4
*	26 Fluorobenzene	96	6.903	6.882	(1.000)	2678135	5.00000	
	27 Trichloroethene	130	7.330	7.318	(1.062)	744706	4.00000	4
	28 1,2-Dichloropropane	63	7.579	7.566	(1.098)	644177	4.00000	4
	29 Dibromomethane	93	7.718	7.698	(1.118)	227912	4.00000	4
	30 Bromodichloromethane	83	7.897	7.885	(1.144)	677793	4.00000	4
	31 cis-1,3-Dichloropropene	75	8.433	8.421	(1.222)	702121	4.00000	4
	32 4-Methyl-2-pentanone	43	8.612	8.607	(1.248)	183599	4.00000	4(a)
$	33 Toluene-d8	98	8.775	8.763	(1.271)	2301157	4.00000	4
	34 Toluene	91	8.861	8.848	(1.284)	2670016	4.00000	4
	35 trans-1,3-Dichloropropene	75	9.109	9.097	(1.320)	464714	4.00000	4
	36 1,1,2-Trichloroethane	97	9.342	9.330	(1.353)	239461	4.00000	4
	38 Tetrachloroethene	164	9.560	9.548	(0.901)	564597	4.00000	4
	37 1,3-Dichloropropane	76	9.560	9.548	(0.901)	498716	4.00000	4
	122 2-Hexanone	43	9.661	9.649	(1.400)	103720	4.00000	4(a)
	40 Dibromochloromethane	129	9.848	9.843	(0.928)	332735	4.00000	4
	41 1,2-Dibromoethane	107	10.003	9.998	(0.943)	236269	4.00000	4
*	43 Chlorobenzene-d5	117	10.609	10.597	(1.000)	1502448	5.00000	
	42 1-Chlorohexane	91	10.609	10.604	(1.537)	794398	4.00000	4
	44 Chlorobenzene	112	10.640	10.635	(1.003)	1442382	4.00000	4
	45 1,1,1,2-Tetrachloroethane	131	10.741	10.736	(1.012)	471988	4.00000	4
	46 Ethylbenzene	106	10.780	10.775	(1.016)	781113	4.00000	4
	47 m,p-Xylene	106	10.935	10.923	(1.031)	2001526	8.00000	9
	48 o-Xylene	106	11.425	11.420	(1.077)	885223	4.00000	4
	49 Styrene	104	11.433	11.428	(1.078)	1243016	4.00000	4
	50 Bromoform	173	11.650	11.646	(0.870)	136539	4.00000	4(T)
	51 Isopropylbenzene	105	11.876	11.871	(0.886)	2198306	4.00000	5
$	52 Bromofluorobenzene	95	12.047	12.050	(1.135)	648770	4.00000	4
	53 1,1,2,2-Tetrachloroethane	83	12.210	12.205	(0.911)	245658	4.00000	4
	54 Bromobenzene	156	12.233	12.228	(0.913)	434019	4.00000	4
	55 1,2,3-Trichloropropane	75	12.264	12.259	(0.915)	278312	4.00000	4
	56 n-Propylbenzene	120	12.365	12.360	(0.923)	574746	4.00000	4
	57 2-Chlorotoluene	126	12.466	12.461	(0.930)	560629	4.00000	4
	58 1,3,5-Trimethylbenzene	105	12.575	12.570	(0.939)	1862386	4.00000	5
	59 4-Chlorotoluene	126	12.590	12.586	(0.940)	532231	4.00000	4
	61 tert-Butylbenzene	119	12.956	12.951	(0.967)	1825840	4.00000	4
	62 1,2,4-Trimethylbenzene	105	13.010	13.005	(0.971)	1704009	4.00000	5

Data File: V1G5585.D
Report Date: 01-Feb-2005 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
63 sec-Butylbenzene	105	13.204	13.207	(0.986)	2195476	4.00000	5	
64 1,3-Dichlorobenzene	146	13.329	13.332	(0.995)	910051	4.00000	4	
65 4-Isopropyltoluene	119	13.375	13.371	(0.998)	1630163	4.00000	4	
* 66 1,4-Dichlorobenzene-d4	152	13.399	13.402	(1.000)	549916	5.00000		
67 1,4-Dichlorobenzene	146	13.430	13.433	(1.002)	839864	4.00000	4	
M 60 Xylene (Total)	106				2886749	12.0000	13	
68 n-Butylbenzene	91	13.834	13.837	(1.032)	1250859	4.00000	4	
69 1,2-Dichlorobenzene	146	13.849	13.852	(1.034)	704290	4.00000	4	
70 1,2-Dibromo-3-chloropropane	75	14.696	14.699	(1.097)	25196	4.00000	4	
71 1,2,4-Trichlorobenzene	180	15.605	15.608	(1.165)	278380	4.00000	4	
72 Hexachlorobutadiene	225	15.792	15.795	(1.179)	251317	4.00000	4	(M) M5: Peak not integrated SB 2/1/05
73 Naphthalene	128	15.862	15.865	(1.184)	317123	4.00000	4	
74 1,2,3-Trichlorobenzene	180	16.126	16.129	(1.204)	229429	4.00000	4	

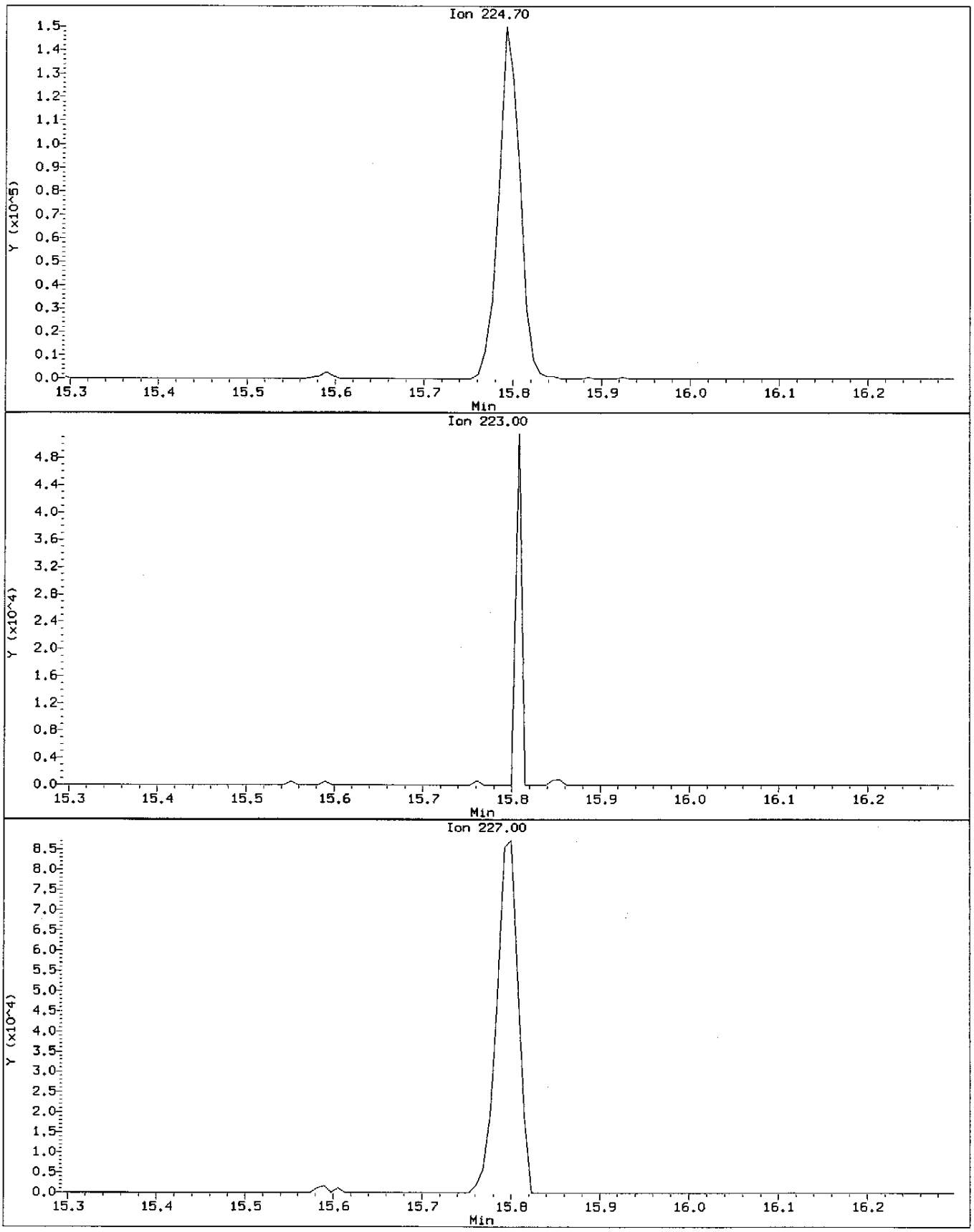
QC Flag Legend

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

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5585.D
Injection Date: 26-JAN-2005 18:03
Instrument: v1.i
Client Sample ID: VSTD0041P

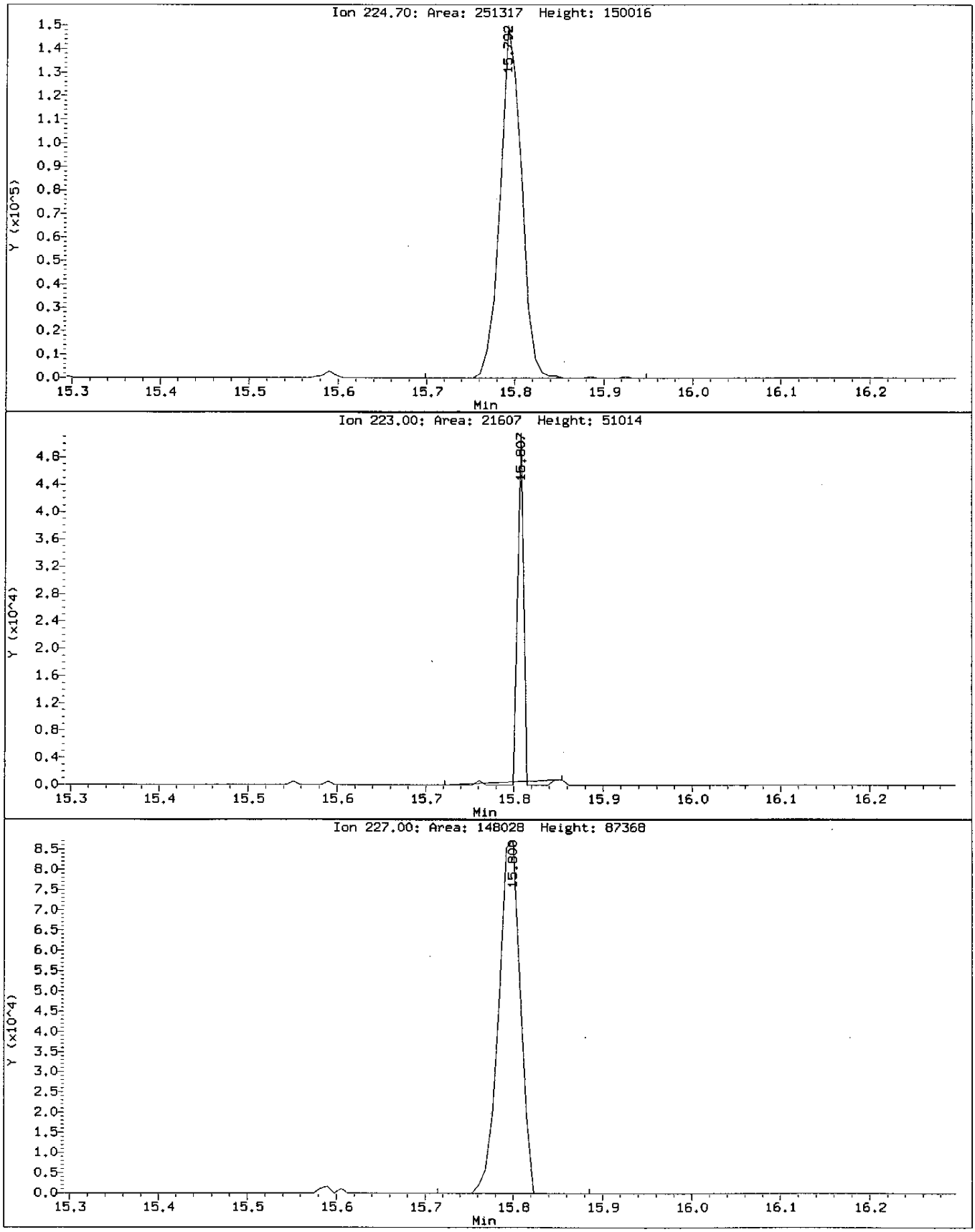
Compound: Hexachlorobutadiene
CAS Number: 87-68-3



* Before (m) : Peak not integrated (SB) 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5585.D
Injection Date: 26-JAN-2005 18:03
Instrument: v1.i
Client Sample ID: VSTD0041P

Compound: Hexachlorobutadiene
CAS Number: 87-68-3

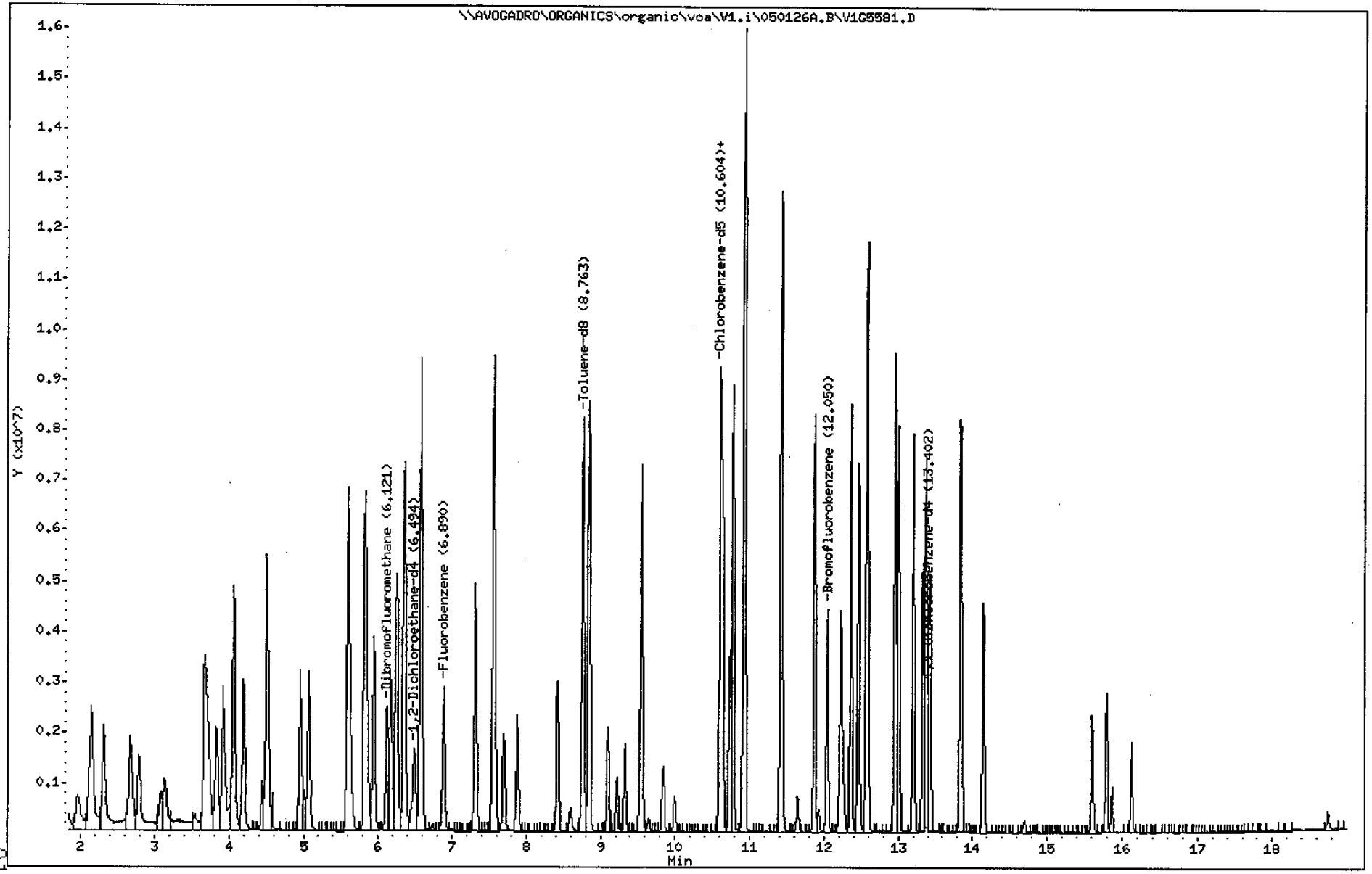


* M5: Peak not integrated (SB) 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5581.D
Date : 26-JAN-2005 15:58
Client ID: VSTD0101P
Sample Info: ,VSTD0101P,VSTD0101P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



0150

Data File: V1G5581.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5581.D
Lab Smp Id: VSTD0101P Client Smp ID: VSTD0101P
Inj Date : 26-JAN-2005 15:58
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0101P,VSTD0101P
Misc Info : ,1,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 15:58 Cal File: V1G5581.D
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				30127149	70.0000	70
M 119 1,2-Dichloroethene (Total)	100				3830809	20.0000	20
1 Dichlorodifluoromethane	85	1.964	1.964	(0.285)	1861834	10.0000	10
2 Chloromethane	50	2.150	2.150	(0.312)	3691777	10.0000	10
3 Vinyl Chloride	62	2.313	2.313	(0.336)	3256937	10.0000	10
4 Bromomethane	94	2.671	2.671	(0.388)	2221561	10.0000	10
5 Chloroethane	64	2.788	2.788	(0.405)	1875048	10.0000	10
6 Trichlorofluoromethane	101	3.137	3.137	(0.456)	2006271	10.0000	10
7 1,1-Dichloroethene	96	3.673	3.673	(0.534)	1777412	10.0000	10
123 Carbon Disulfide	76	3.914	3.914	(0.569)	6365281	10.0000	10
9 Methylene Chloride	84	4.194	4.194	(0.609)	1735740	10.0000	10
121 Acetone	43	3.712	3.712	(0.539)	209566	10.0000	10
10 trans-1,2-Dichloroethene	96	4.505	4.505	(0.655)	1970562	10.0000	10
11 Methyl tert-butyl ether	73	4.528	4.528	(0.658)	2104551	10.0000	10
12 1,1-Dichloroethane	63	4.955	4.955	(0.720)	3868293	10.0000	10
13 cis-1,2-Dichloroethene	96	5.593	5.593	(0.813)	1860246	10.0000	10

Data File: V1G5581.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 2,2-Dichloropropane	77	5.608	5.608	(0.815)	2970704	10.0000	10
	14 2-Butanone	43	5.608	5.608	(0.815)	286585	10.0000	10
	16 Bromochloromethane	128	5.857	5.857	(0.851)	664921	10.0000	10
	17 Chloroform	83	5.942	5.942	(0.863)	3340392	10.0000	10
$	18 Dibromofluoromethane	113	6.121	6.121	(0.889)	1773208	10.0000	10
	20 1,1,1-Trichloroethane	97	6.168	6.168	(0.896)	2635127	10.0000	10
	21 1,1-Dichloropropene	110	6.346	6.346	(0.922)	852499	10.0000	10
	22 Carbon Tetrachloride	117	6.362	6.362	(0.924)	2283467	10.0000	10
$	23 1,2-Dichloroethane-d4	102	6.486	6.486	(0.942)	256850	10.0000	10
	25 Benzene	78	6.579	6.579	(0.956)	7942486	10.0000	10
	24 1,2-Dichloroethane	62	6.579	6.579	(0.956)	1461696	10.0000	10
*	26 Fluorobenzene	96	6.882	6.882	(1.000)	2956176	5.00000	
	27 Trichloroethene	130	7.318	7.318	(1.063)	1948720	10.0000	10
	28 1,2-Dichloropropane	63	7.566	7.566	(1.099)	1739772	10.0000	10
	29 Dibromomethane	93	7.698	7.698	(1.119)	598921	10.0000	10
	30 Bromodichloromethane	83	7.885	7.885	(1.146)	1832762	10.0000	10
	31 cis-1,3-Dichloropropene	75	8.421	8.421	(1.224)	2002143	10.0000	10
	32 4-Methyl-2-pentanone	43	8.607	8.607	(1.251)	479868	10.0000	10
$	33 Toluene-d8	98	8.763	8.763	(1.273)	6235703	10.0000	10
	34 Toluene	91	8.848	8.848	(1.286)	7034844	10.0000	10
	35 trans-1,3-Dichloropropene	75	9.097	9.097	(1.322)	1335044	10.0000	10
	36 1,1,2-Trichloroethane	97	9.330	9.330	(1.356)	644790	10.0000	10
	38 Tetrachloroethene	164	9.548	9.548	(0.901)	1490520	10.0000	10
	37 1,3-Dichloropropane	76	9.548	9.548	(0.901)	1314962	10.0000	10
	122 2-Hexanone	43	9.649	9.649	(1.402)	251802	10.0000	10
	40 Dibromochloromethane	129	9.843	9.843	(0.929)	891332	10.0000	10
	41 1,2-Dibromoethane	107	9.998	9.998	(0.944)	603252	10.0000	10
*	43 Chlorobenzene-d5	117	10.597	10.597	(1.000)	1725271	5.00000	
	42 1-Chlorohexane	91	10.604	10.604	(1.541)	2184986	10.0000	10
	44 Chlorobenzene	112	10.635	10.635	(1.004)	3807379	10.0000	10
	45 1,1,1,2-Tetrachloroethane	131	10.736	10.736	(1.013)	1271227	10.0000	10
	46 Ethylbenzene	106	10.775	10.775	(1.017)	2173679	10.0000	10
	47 m,p-Xylene	106	10.923	10.923	(1.031)	5455117	20.0000	20
	48 o-Xylene	106	11.420	11.420	(1.078)	2482840	10.0000	10
	49 Styrene	104	11.428	11.428	(1.078)	3477558	10.0000	10
	50 Bromoform	173	11.646	11.646	(0.869)	380541	10.0000	10(T)
	51 Isopropylbenzene	105	11.871	11.871	(0.886)	6076401	10.0000	10
$	52 Bromofluorobenzene	95	12.050	12.050	(1.137)	1762624	10.0000	10
	53 1,1,2,2-Tetrachloroethane	83	12.205	12.205	(0.911)	680602	10.0000	10
	54 Bromobenzene	156	12.228	12.228	(0.912)	1212361	10.0000	10
	55 1,2,3-Trichloropropane	75	12.259	12.259	(0.915)	742795	10.0000	10
	56 n-Propylbenzene	120	12.360	12.360	(0.922)	1570088	10.0000	10
	57 2-Chlorotoluene	126	12.461	12.461	(0.930)	1513337	10.0000	10
	58 1,3,5-Trimethylbenzene	105	12.570	12.570	(0.938)	4999139	10.0000	10
	59 4-Chlorotoluene	126	12.586	12.586	(0.939)	1418301	10.0000	10
	61 tert-Butylbenzene	119	12.951	12.951	(0.966)	4868438	10.0000	10
	62 1,2,4-Trimethylbenzene	105	13.005	13.005	(0.970)	4564283	10.0000	10

Data File: V1G5581.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	63 sec-Butylbenzene	105	13.207	13.207	(0.986)	6037012	10.0000	10
	64 1,3-Dichlorobenzene	146	13.332	13.332	(0.995)	2436649	10.0000	10
	65 4-Isopropyltoluene	119	13.371	13.371	(0.998)	4495483	10.0000	10
*	66 1,4-Dichlorobenzene-d4	152	13.402	13.402	(1.000)	630836	5.00000	
	67 1,4-Dichlorobenzene	146	13.433	13.433	(1.002)	2268445	10.0000	10
M	60 Xylene (Total)	106				7937957	30.0000	30
	68 n-Butylbenzene	91	13.837	13.837	(1.032)	3592703	10.0000	10
	69 1,2-Dichlorobenzene	146	13.852	13.852	(1.034)	1902694	10.0000	10
	70 1,2-Dibromo-3-chloropropane	75	14.699	14.699	(1.097)	68509	10.0000	10
	71 1,2,4-Trichlorobenzene	180	15.608	15.608	(1.165)	722608	10.0000	10
	72 Hexachlorobutadiene	225	15.795	15.795	(1.179)	556474	10.0000	10
	73 Naphthalene	128	15.865	15.865	(1.184)	730470	10.0000	10
	74 1,2,3-Trichlorobenzene	180	16.129	16.129	(1.204)	570645	10.0000	10

QC Flag Legend

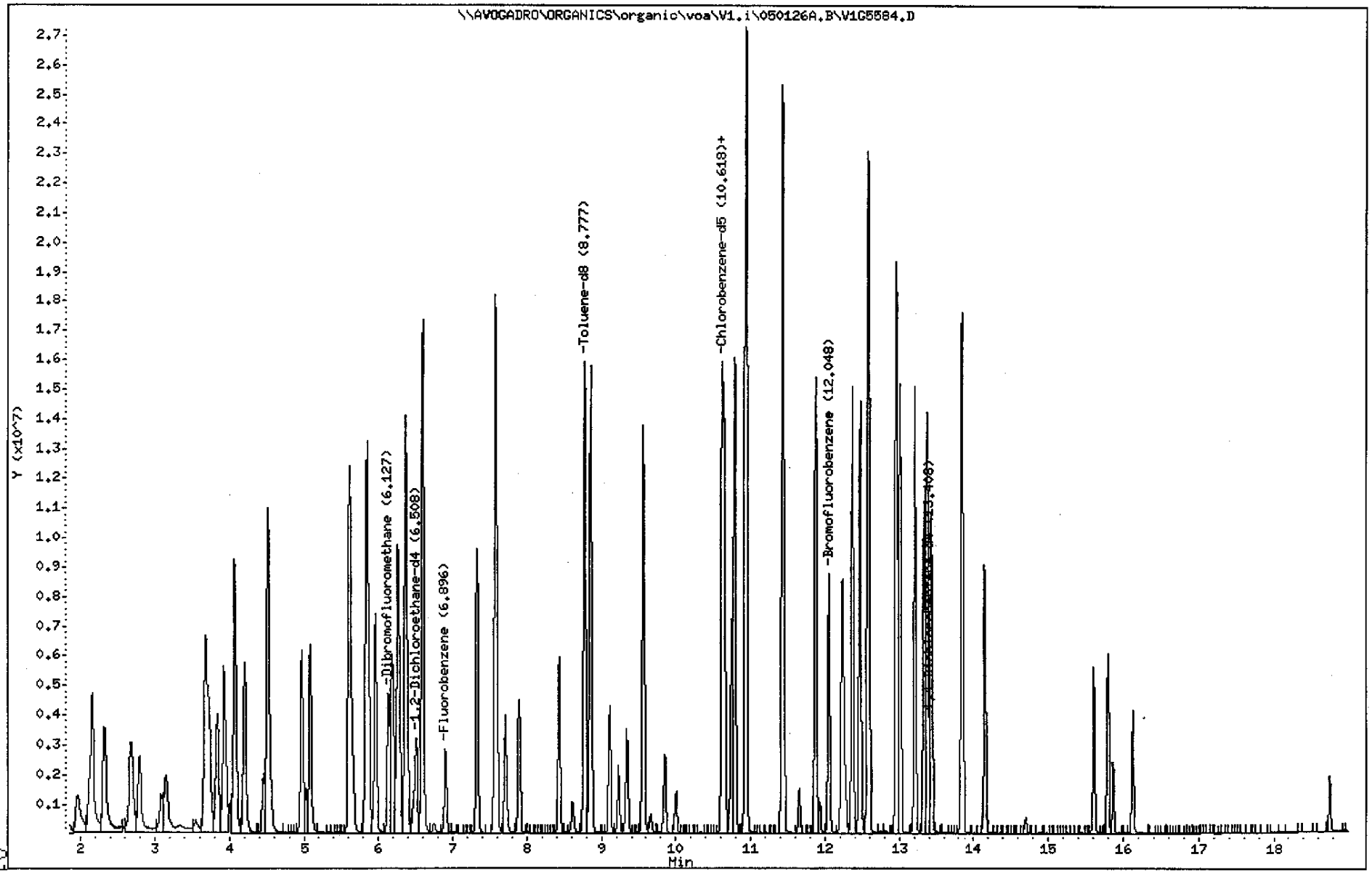
T - Target compound detected outside RT window.

2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5584.D
Date : 26-JAN-2005 17:31
Client ID: VSTD0201P
Sample Info: ,VSTD0201P,VSTD0201P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



Data File: V1G5584.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5584.D
Lab Smp Id: VSTD0201P Client Smp ID: VSTD0201P
Inj Date : 26-JAN-2005 17:31
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0201P,VSTD0201P
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 17:31 Cal File: V1G5584.D
Als bottle: 12 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				60289457	140.000	160
M 119 1,2-Dichloroethene (Total)	100				7612159	40.0000	42
1 Dichlorodifluoromethane	85	1.954	1.964	(0.283)	3463924	20.0000	21
2 Chloromethane	50	2.156	2.150	(0.313)	7176730	20.0000	21
3 Vinyl Chloride	62	2.320	2.313	(0.336)	6360881	20.0000	21
4 Bromomethane	94	2.677	2.671	(0.388)	4299703	20.0000	22
5 Chloroethane	64	2.793	2.788	(0.405)	3580148	20.0000	21
6 Trichlorofluoromethane	101	3.143	3.137	(0.456)	4128610	20.0000	23
7 1,1-Dichloroethene	96	3.679	3.673	(0.534)	3534636	20.0000	21
123 Carbon Disulfide	76	3.920	3.914	(0.568)	12496437	20.0000	21
9 Methylene Chloride	84	4.208	4.194	(0.610)	3317557	20.0000	19
121 Acetone	43	3.726	3.712	(0.540)	340672	20.0000	19
10 trans-1,2-Dichloroethene	96	4.519	4.505	(0.655)	3971526	20.0000	21
11 Methyl tert-butyl ether	73	4.534	4.528	(0.657)	4260447	20.0000	21
12 1,1-Dichloroethane	63	4.969	4.955	(0.721)	7445400	20.0000	20
13 cis-1,2-Dichloroethene	96	5.606	5.593	(0.813)	3640632	20.0000	21

Data File: V1G5584.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	15 2,2-Dichloropropane	77	5.614	5.608	(0.814)	5596070	20.0000	21
	14 2-Butanone	43	5.614	5.608	(0.814)	600850	20.0000	21
	16 Bromochloromethane	128	5.871	5.857	(0.851)	1247640	20.0000	21
	17 Chloroform	83	5.956	5.942	(0.864)	6440991	20.0000	18
$	18 Dibromofluoromethane	113	6.127	6.121	(0.888)	3473039	20.0000	21
	20 1,1,1-Trichloroethane	97	6.181	6.168	(0.896)	5181448	20.0000	21
	21 1,1-Dichloropropene	110	6.360	6.346	(0.922)	1743156	20.0000	22
	22 Carbon Tetrachloride	117	6.376	6.362	(0.925)	4356713	20.0000	21
$	23 1,2-Dichloroethane-d4	102	6.508	6.486	(0.944)	486334	20.0000	21
	25 Benzene	78	6.593	6.579	(0.956)	14481252	20.0000	22
	24 1,2-Dichloroethane	62	6.593	6.579	(0.956)	2774186	20.0000	21
*	26 Fluorobenzene	96	6.896	6.882	(1.000)	2796094	5.00000	
	27 Trichloroethene	130	7.331	7.318	(1.063)	3855901	20.0000	21
	28 1,2-Dichloropropane	63	7.572	7.566	(1.098)	3417824	20.0000	21
	29 Dibromomethane	93	7.712	7.698	(1.118)	1114688	20.0000	21
	30 Bromodichloromethane	83	7.891	7.885	(1.144)	3563975	20.0000	21
	31 cis-1,3-Dichloropropene	75	8.435	8.421	(1.223)	4034541	20.0000	21
	32 4-Methyl-2-pentanone	43	8.614	8.607	(1.249)	1049823	20.0000	21
$	33 Toluene-d8	98	8.777	8.763	(1.273)	11945782	20.0000	22
	34 Toluene	91	8.862	8.848	(1.285)	13166990	20.0000	22
	35 trans-1,3-Dichloropropene	75	9.111	9.097	(1.321)	2699367	20.0000	22
	36 1,1,2-Trichloroethane	97	9.344	9.330	(1.355)	1267024	20.0000	21
	38 Tetrachloroethene	164	9.561	9.548	(0.901)	2928043	20.0000	21
	37 1,3-Dichloropropane	76	9.554	9.548	(0.900)	2587382	20.0000	21
	122 2-Hexanone	43	9.662	9.649	(1.401)	566735	20.0000	21
	40 Dibromochloromethane	129	9.849	9.843	(0.928)	1791550	20.0000	22
	41 1,2-Dibromoethane	107	10.004	9.998	(0.943)	1235377	20.0000	22
*	43 Chlorobenzene-d5	117	10.610	10.597	(1.000)	1576027	5.00000	
	42 1-Chlorohexane	91	10.618	10.604	(1.540)	4437377	20.0000	22
	44 Chlorobenzene	112	10.642	10.635	(1.003)	7450803	20.0000	21
	45 1,1,1,2-Tetrachloroethane	131	10.743	10.736	(1.012)	2519404	20.0000	21
	46 Ethylbenzene	106	10.781	10.775	(1.016)	4364488	20.0000	22
	47 m,p-Xylene	106	10.937	10.923	(1.031)	10563665	40.0000	47(A)
	48 o-Xylene	106	11.426	11.420	(1.077)	4940839	20.0000	23
	49 Styrene	104	11.434	11.428	(1.078)	7041564	20.0000	23
	50 Bromoform	173	11.652	11.646	(0.869)	779303	20.0000	21(T)
	51 Isopropylbenzene	105	11.877	11.871	(0.886)	11588347	20.0000	23
$	52 Bromofluorobenzene	95	12.048	12.050	(1.135)	3572263	20.0000	22
	53 1,1,2,2-Tetrachloroethane	83	12.211	12.205	(0.911)	1326616	20.0000	20
	54 Bromobenzene	156	12.234	12.228	(0.912)	2434816	20.0000	21
	55 1,2,3-Trichloropropane	75	12.265	12.259	(0.915)	1530112	20.0000	21
	56 n-Propylbenzene	120	12.366	12.360	(0.922)	3268952	20.0000	22
	57 2-Chlorotoluene	126	12.468	12.461	(0.930)	3095795	20.0000	21
	58 1,3,5-Trimethylbenzene	105	12.576	12.570	(0.938)	9873160	20.0000	23
	59 4-Chlorotoluene	126	12.592	12.586	(0.939)	2892210	20.0000	21
	61 tert-Butylbenzene	119	12.957	12.951	(0.966)	9868712	20.0000	23
	62 1,2,4-Trimethylbenzene	105	13.011	13.005	(0.970)	9047443	20.0000	23

Data File: V1G5584.D
Report Date: 01-Feb-2005 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63 sec-Butylbenzene	105	13.206	13.207	(0.985)	11560447	20.0000	23
64 1,3-Dichlorobenzene	146	13.330	13.332	(0.994)	5028797	20.0000	21
65 4-Isopropyltoluene	119	13.377	13.371	(0.998)	8947688	20.0000	23
* 66 1,4-Dichlorobenzene-d4	152	13.408	13.402	(1.000)	615525	5.00000	
67 1,4-Dichlorobenzene	146	13.431	13.433	(1.002)	4658394	20.0000	21
M 60 Xylene (Total)	106				15504505	60.0000	70
68 n-Butylbenzene	91	13.835	13.837	(1.032)	7723051	20.0000	24
69 1,2-Dichlorobenzene	146	13.851	13.852	(1.033)	3877257	20.0000	21
70 1,2-Dibromo-3-chloropropane	75	14.698	14.699	(1.096)	137097	20.0000	19
71 1,2,4-Trichlorobenzene	180	15.607	15.608	(1.164)	1737635	20.0000	22
72 Hexachlorobutadiene	225	15.793	15.795	(1.178)	1214280	20.0000	19
73 Naphthalene	128	15.863	15.865	(1.183)	1906167	20.0000	23
74 1,2,3-Trichlorobenzene	180	16.120	16.129	(1.202)	1325388	20.0000	21

QC Flag Legend

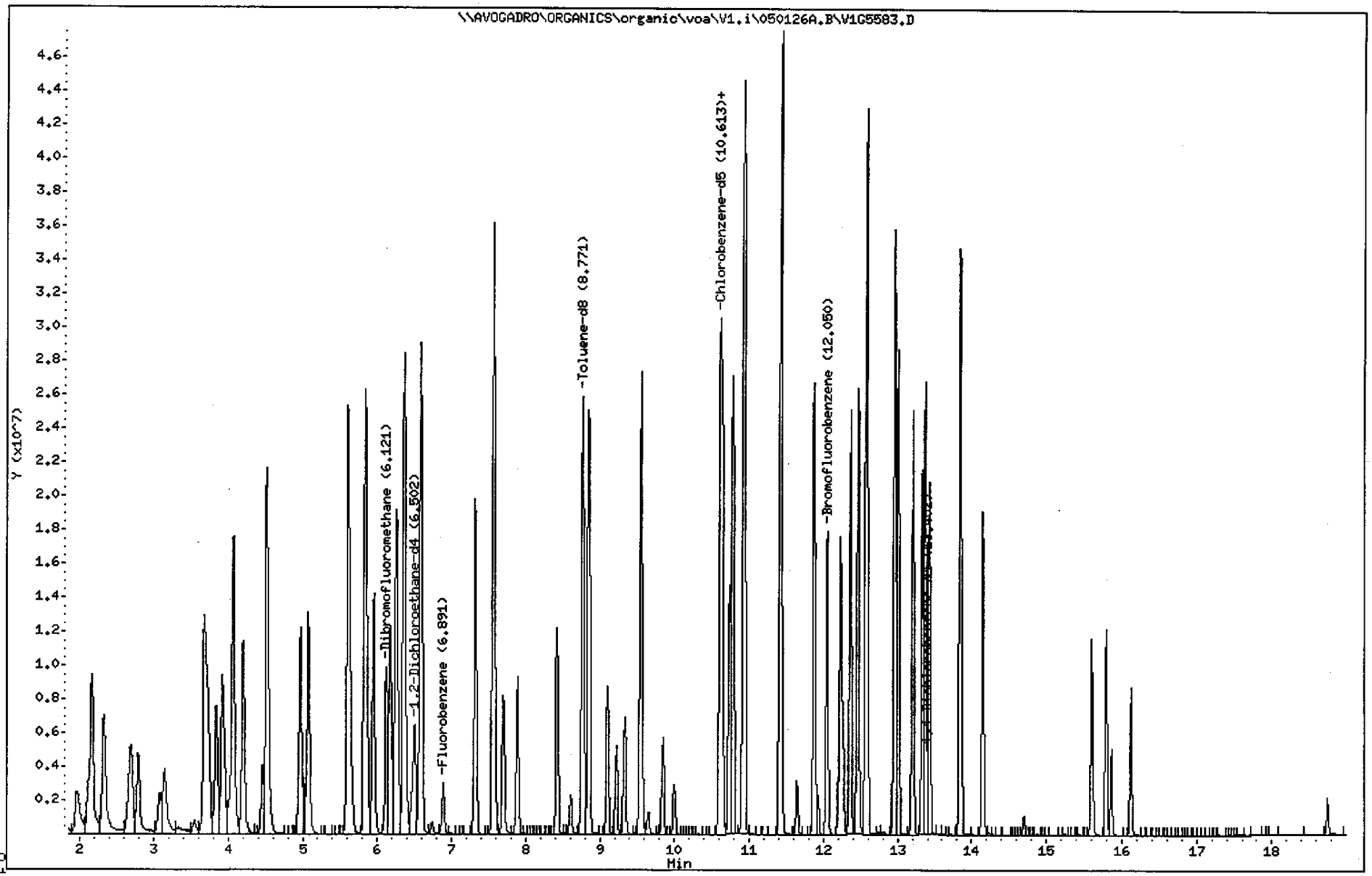
T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5583.D
Date : 26-JAN-2005 17:00
Client ID: VSTD0401P
Sample Info: ,VSTD0401P,VSTD0401P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



0158

Data File: V1G5583.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5583.D
Lab Smp Id: VSTD0401P Client Smp ID: VSTD0401P
Inj Date : 26-JAN-2005 17:00
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0401P,VSTD0401P
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 17:00 Cal File: V1G5583.D
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				98513677	280.000	270
M 119 1,2-Dichloroethene (Total)	100				15762920	80.0000	86
1 Dichlorodifluoromethane	85	1.957	1.964	(0.284)	6881421	40.0000	40
2 Chloromethane	50	2.159	2.150	(0.313)	14831816	40.0000	42(A)
3 Vinyl Chloride	62	2.322	2.313	(0.337)	13001396	40.0000	42(A)
4 Bromomethane	94	2.687	2.671	(0.390)	7704820	40.0000	38
5 Chloroethane	64	2.788	2.788	(0.405)	7099096	40.0000	40
6 Trichlorofluoromethane	101	3.138	3.137	(0.455)	8433893	40.0000	47(A)
7 1,1-Dichloroethene	96	3.674	3.673	(0.533)	7309780	40.0000	43(A)
123 Carbon Disulfide	76	3.915	3.914	(0.568)	23334464	40.0000	39
9 Methylene Chloride	84	4.202	4.194	(0.610)	6789115	40.0000	37
121 Acetone	43	3.720	3.712	(0.540)	670864	40.0000	36
10 trans-1,2-Dichloroethene	96	4.513	4.505	(0.655)	8197110	40.0000	44(A)
11 Methyl tert-butyl ether	73	4.529	4.528	(0.657)	8845705	40.0000	44(A)
12 1,1-Dichloroethane	63	4.964	4.955	(0.720)	14743675	40.0000	40
13 cis-1,2-Dichloroethene	96	5.601	5.593	(0.813)	7565810	40.0000	42(A)

Data File: V1G5583.D
Report Date: 01-Feb-2005 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
15 2,2-Dichloropropane	77	5.616	5.608	(0.815)	11582899	40.0000	42(A)
14 2-Butanone	43	5.609	5.608	(0.814)	1193158	40.0000	41(A)
16 Bromochloromethane	128	5.857	5.857	(0.850)	2636713	40.0000	44(A)
17 Chloroform	83	5.950	5.942	(0.864)	12680193	40.0000	32
$ 18 Dibromofluoromethane	113	6.122	6.121	(0.888)	7193271	40.0000	43(A)
20 1,1,1-Trichloroethane	97	6.176	6.168	(0.896)	10562175	40.0000	43(A)
21 1,1-Dichloropropene	110	6.355	6.346	(0.922)	3617585	40.0000	45(A)
22 Carbon Tetrachloride	117	6.370	6.362	(0.924)	8953574	40.0000	43(A)
$ 23 1,2-Dichloroethane-d4	102	6.502	6.486	(0.944)	1026647	40.0000	44(A)
25 Benzene	78	6.580	6.579	(0.955)	21145342	40.0000	31
24 1,2-Dichloroethane	62	6.588	6.579	(0.956)	5471073	40.0000	40(A)
* 26 Fluorobenzene	96	6.891	6.882	(1.000)	2906451	5.00000	
27 Trichloroethene	130	7.318	7.318	(1.062)	7873142	40.0000	42(A)
28 1,2-Dichloropropane	63	7.567	7.566	(1.098)	6898943	40.0000	41(A)
29 Dibromomethane	93	7.707	7.698	(1.118)	2336432	40.0000	43(A)
30 Bromodichloromethane	83	7.885	7.885	(1.144)	7266789	40.0000	42(A)
31 cis-1,3-Dichloropropene	75	8.429	8.421	(1.223)	8461726	40.0000	44(A)
32 4-Methyl-2-pentanone	43	8.608	8.607	(1.249)	2219263	40.0000	43(A)
$ 33 Toluene-d8	98	8.771	8.763	(1.273)	18711231	40.0000	34
34 Toluene	91	8.849	8.848	(1.284)	19237689	40.0000	33
35 trans-1,3-Dichloropropene	75	9.105	9.097	(1.321)	5704048	40.0000	46(A)
36 1,1,2-Trichloroethane	97	9.331	9.330	(1.354)	2614018	40.0000	43(A)
38 Tetrachloroethene	164	9.556	9.548	(0.901)	5966621	40.0000	41(A)
37 1,3-Dichloropropane	76	9.548	9.548	(0.900)	5382933	40.0000	41(A)
122 2-Hexanone	43	9.649	9.649	(1.400)	1245829	40.0000	44(A)
40 Dibromochloromethane	129	9.843	9.843	(0.928)	3751013	40.0000	44(A)
41 1,2-Dibromoethane	107	9.999	9.998	(0.943)	2565241	40.0000	43(A)
* 43 Chlorobenzene-d5	117	10.605	10.597	(1.000)	1691385	5.00000	
42 1-Chlorohexane	91	10.605	10.604	(1.539)	9137612	40.0000	46(A)
44 Chlorobenzene	112	10.636	10.635	(1.003)	14053664	40.0000	38
45 1,1,1,2-Tetrachloroethane	131	10.737	10.736	(1.012)	5135500	40.0000	41(A)
46 Ethylbenzene	106	10.784	10.775	(1.017)	9038482	40.0000	45(A)
47 m,p-Xylene	106	10.931	10.923	(1.031)	17121676	80.0000	75(A)
48 o-Xylene	106	11.421	11.420	(1.077)	10208761	40.0000	46(A)
49 Styrene	104	11.429	11.428	(1.078)	13457906	40.0000	44(A)
50 Bromoform	173	11.646	11.646	(0.869)	1615471	40.0000	42(A)
51 Isopropylbenzene	105	11.871	11.871	(0.886)	17185356	40.0000	34
$ 52 Bromofluorobenzene	95	12.050	12.050	(1.136)	7211936	40.0000	42(A)
53 1,1,2,2-Tetrachloroethane	83	12.206	12.205	(0.911)	2820074	40.0000	42(A)
54 Bromobenzene	156	12.229	12.228	(0.912)	5068243	40.0000	42(A)
55 1,2,3-Trichloropropane	75	12.260	12.259	(0.915)	3189817	40.0000	43(A)
56 n-Propylbenzene	120	12.361	12.360	(0.922)	6942848	40.0000	46(A)
57 2-Chlorotoluene	126	12.462	12.461	(0.930)	6486834	40.0000	43(A)
58 1,3,5-Trimethylbenzene	105	12.571	12.570	(0.938)	15352854	40.0000	36
59 4-Chlorotoluene	126	12.586	12.586	(0.939)	6051805	40.0000	44(A)
61 tert-Butylbenzene	119	12.952	12.951	(0.966)	16495428	40.0000	38
62 1,2,4-Trimethylbenzene	105	13.006	13.005	(0.970)	14700533	40.0000	38

Data File: V1G5583.D
Report Date: 01-Feb-2005 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
63 sec-Butylbenzene	105	13.200	13.207	(0.985)	16741372	40.0000	33
64 1,3-Dichlorobenzene	146	13.332	13.332	(0.995)	9959567	40.0000	40
65 4-Isopropyltoluene	119	13.371	13.371	(0.998)	14598273	40.0000	38
* 66 1,4-Dichlorobenzene-d4	152	13.402	13.402	(1.000)	645327	5.00000	
67 1,4-Dichlorobenzene	146	13.433	13.433	(1.002)	9375927	40.0000	40
M 60 Xylene (Total)	106				27330438	120.000	120
68 n-Butylbenzene	91	13.837	13.837	(1.032)	13682366	40.0000	43(A)
69 1,2-Dichlorobenzene	146	13.853	13.852	(1.034)	7926081	40.0000	42(A)
70 1,2-Dibromo-3-chloropropane	75	14.700	14.699	(1.097)	290356	40.0000	39
71 1,2,4-Trichlorobenzene	180	15.609	15.608	(1.165)	3712106	40.0000	47(A)
72 Hexachlorobutadiene	225	15.795	15.795	(1.179)	2485484	40.0000	37
73 Naphthalene	128	15.865	15.865	(1.184)	4132971	40.0000	49(A)
74 1,2,3-Trichlorobenzene	180	16.122	16.129	(1.203)	2820034	40.0000	43(A)

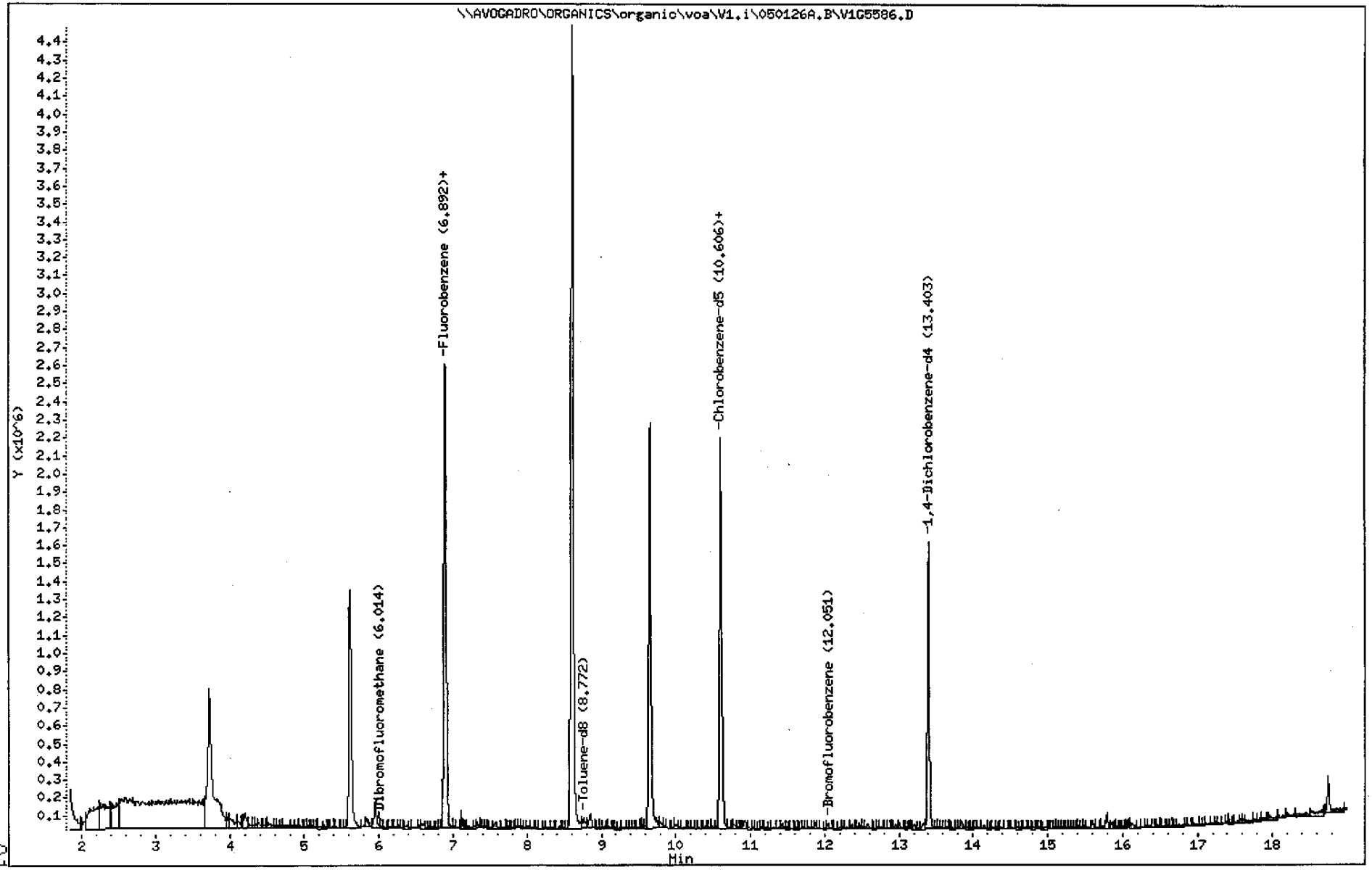
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

SB 2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5586.D
Date : 26-JAN-2005 18:34
Client ID: VSTD0801P
Sample Info: ,VSTD0801P,VSTD0801P
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i
Operator: MS
Column diameter: 0.25



Data File: V1G5586.D
Report Date: 01-Feb-2005 10:56

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5586.D
Lab Smp Id: VSTD0801P Client Smp ID: VSTD0801P
Inj Date : 26-JAN-2005 18:34
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0801P,VSTD0801P
Misc Info : ,1,6
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\v1AFCEE.m
Meth Date : 31-Jan-2005 13:28 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 14 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
M 116 Total alkylbenzenes	91				69327	0.00000	0.3(a)
M 119 1,2-Dichloroethene (Total)	100				1277	0.00000	0.008(a)
1 Dichlorodifluoromethane	85	1.966	1.964	(0.285)	1165	0.00000	0.008(a)
2 Chloromethane	50	2.136	2.150	(0.310)	1518	0.00000	0.005(a)
3 Vinyl Chloride	62	2.323	2.313	(0.337)	1336	0.00000	0.005(a)
4 Bromomethane	94	2.680	2.671	(0.389)	1933	0.00000	0.01(a)
5 Chloroethane	64	2.805	2.788	(0.407)	2841	0.00000	0.02(a)
6 Trichlorofluoromethane	101	3.115	3.137	(0.452)	318	0.00000	0.002(a)
7 1,1-Dichloroethene	96	3.667	3.673	(0.532)	3498	0.00000	0.02(a)
123 Carbon Disulfide	76	3.916	3.914	(0.568)	16413	0.00000	0.03(a)
9 Methylene Chloride	84	4.203	4.194	(0.610)	33306	0.00000	0.2(a)
121 Acetone	43	3.722	3.712	(0.540)	1138204	80.0000	66(A)
10 trans-1,2-Dichloroethene	96	4.506	4.505	(0.654)	513	0.00000	0.003(a)
11 Methyl tert-butyl ether	73	4.537	4.528	(0.658)	6795	0.00000	0.04(a)
13 cis-1,2-Dichloroethene	96	5.594	5.593	(0.812)	764	0.00000	0.005(a)
15 2,2-Dichloropropane	77	5.260	5.608	(0.763)	327	0.00000	0.001(Ta)

Data File: V1G5586.D
Report Date: 01-Feb-2005 10:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	14 2-Butanone	43	5.610	5.608	(0.814)	2160133	80.0000	79(A)
	16 Bromochloromethane	128	5.866	5.857	(0.851)	1316	0.00000	0.02(a)
	17 Chloroform	83	5.952	5.942	(0.864)	134859	0.00000	0.4(a)
$	18 Dibromofluoromethane	113	6.014	6.121	(0.873)	240	0.00000	0.002(Ta)
	21 1,1-Dichloropropene	110	6.348	6.346	(0.921)	720	0.00000	0.010(a)
	25 Benzene	78	6.589	6.579	(0.956)	23823	0.00000	0.04(a)
	24 1,2-Dichloroethane	62	6.892	6.579	(1.000)	31227	0.00000	0.2(Ta)
*	26 Fluorobenzene	96	6.892	6.882	(1.000)	2610510	5.00000	
	27 Trichloroethene	130	7.327	7.318	(1.063)	8129	0.00000	0.05(a)
	28 1,2-Dichloropropane	63	7.583	7.566	(1.100)	538	0.00000	0.004(Ta)
	30 Bromodichloromethane	83	7.902	7.885	(1.147)	1373	0.00000	0.008(a)
	32 4-Methyl-2-pentanone	43	8.609	8.607	(1.249)	4383415	80.0000	91(A)
$	33 Toluene-d8	98	8.772	8.763	(1.273)	25149	0.00000	0.05(a)
	34 Toluene	91	8.858	8.848	(1.285)	54524	0.00000	0.10(a)
	35 trans-1,3-Dichloropropene	75	9.114	9.097	(1.322)	1122	0.00000	0.010(a)
	38 Tetrachloroethene	164	9.557	9.548	(0.901)	2901	0.00000	0.02(a)
	37 1,3-Dichloropropane	76	9.549	9.548	(0.900)	262	0.00000	0.002(a)
	122 2-Hexanone	43	9.658	9.649	(1.401)	2259690	80.0000	87(A)
	40 Dibromochloromethane	129	9.837	9.843	(0.927)	877	0.00000	0.01(Ta)
	41 1,2-Dibromoethane	107	10.016	9.998	(0.944)	710	0.00000	0.01(Ta)
*	43 Chlorobenzene-d5	117	10.606	10.597	(1.000)	1416954	5.00000	
	42 1-Chlorohexane	91	10.614	10.604	(1.540)	7371	0.00000	0.04(a)
	44 Chlorobenzene	112	10.637	10.635	(1.003)	53964	0.00000	0.2(a)
	46 Ethylbenzene	106	10.785	10.775	(1.017)	5253	0.00000	0.03(a)
	47 m,p-Xylene	106	10.925	10.923	(1.030)	16211	0.00000	0.08(a)
	48 o-Xylene	106	11.414	11.420	(1.076)	4960	0.00000	0.02(a)
	49 Styrene	104	11.422	11.428	(1.077)	7523	0.00000	0.03(a)
	51 Isopropylbenzene	105	11.880	11.871	(0.886)	13811	0.00000	0.04(a)
$	52 Bromofluorobenzene	95	12.051	12.050	(1.136)	7556	0.00000	0.05(a)
	54 Bromobenzene	156	12.230	12.228	(0.912)	2121	0.00000	0.02(a)
	55 1,2,3-Trichloropropane	75	12.230	12.259	(0.912)	662	0.00000	0.01(a)
	56 n-Propylbenzene	120	12.362	12.360	(0.922)	3946	0.00000	0.04(a)
	57 2-Chlorotoluene	126	12.448	12.461	(0.929)	266	0.00000	0.002(a)
	58 1,3,5-Trimethylbenzene	105	12.564	12.570	(0.937)	10593	0.00000	0.03(a)
	59 4-Chlorotoluene	126	12.587	12.586	(0.939)	2652	0.00000	0.03(a)
	61 tert-Butylbenzene	119	12.953	12.951	(0.966)	9631	0.00000	0.03(a)
	62 1,2,4-Trimethylbenzene	105	13.007	13.005	(0.970)	15208	0.00000	0.05(a)
	64 1,3-Dichlorobenzene	146	13.333	13.332	(0.995)	15607	0.00000	0.09(a)
	65 4-Isopropyltoluene	119	13.372	13.371	(0.998)	11614	0.00000	0.04(a)
*	66 1,4-Dichlorobenzene-d4	152	13.403	13.402	(1.000)	450321	5.00000	
	67 1,4-Dichlorobenzene	146	13.427	13.433	(1.002)	18396	0.00000	0.1(a)
M	60 Xylene (Total)	106				21171	0.00000	0.1(a)
	68 n-Butylbenzene	91	13.839	13.837	(1.032)	18332	0.00000	0.08(a)
	69 1,2-Dichlorobenzene	146	13.846	13.852	(1.033)	8858	0.00000	0.06(a)
	71 1,2,4-Trichlorobenzene	180	15.610	15.608	(1.165)	6764	0.00000	0.1(a)
	72 Hexachlorobutadiene	225	15.789	15.795	(1.178)	15472	0.00000	0.3(a)
	73 Naphthalene	128	15.867	15.865	(1.184)	22610	0.00000	0.4(a)

Data File: V1G5586.D
Report Date: 01-Feb-2005 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
74 1,2,3-Trichlorobenzene	180	16.123	16.129	(1.203)	9046	0.00000	0.2(a)

QC Flag Legend

(SP) 2/1/05

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.298	0.287	0.010	-3.7	20.0
Chloromethane	0.622	0.611	0.100	-1.8	20.0
Vinyl chloride	0.547	0.533	0.010	-2.6	20.0
Bromomethane	0.361	0.365	0.010	1.1	20.0
Chloroethane	0.313	0.308	0.300	-1.6	20.0
Trichlorofluoromethane	0.329	0.327	0.010	-0.6	20.0
1,1-Dichloroethene	0.304	0.298	0.010	-2.0	20.0
Acetone	0.033	0.052	0.010	57.6	20.0
Carbon disulfide	1.065	1.050	0.010	-1.4	20.0
Methylene chloride	0.311	0.270	0.010	-13.2	20.0
trans-1,2-Dichloroethene	0.334	0.330	0.010	-1.2	20.0
Methyl tert-butyl ether	0.362	0.332	0.100	-8.3	20.0
1,1-Dichloroethane	0.653	0.629	0.010	-3.7	20.0
2-Butanone	0.052	0.054	0.010	3.8	20.0
cis-1,2-Dichloroethene	0.313	0.300	0.010	-4.2	20.0
2,2-Dichloropropane	0.483	0.494	0.010	2.3	20.0
Bromochloromethane	0.107	0.106	0.010	-0.9	20.0
Chloroform	0.649	0.549	0.010	-15.4	20.0
1,1,1-Trichloroethane	0.440	0.437	0.010	-0.7	20.0
1,1-Dichloropropene	0.144	0.145	0.010	0.7	20.0
Carbon tetrachloride	0.373	0.377	0.010	1.1	20.0
1,2-Dichloroethane	0.240	0.232	0.010	-3.3	20.0
Benzene	1.235	1.293	0.010	4.7	20.0
Trichloroethene	0.330	0.326	0.010	-1.2	20.0
1,2-Dichloropropane	0.294	0.278	0.010	-5.4	20.0
Dibromomethane	0.097	0.092	0.010	-5.2	20.0
Bromodichloromethane	0.307	0.298	0.010	-2.9	20.0
cis-1,3-Dichloropropene	0.334	0.329	0.010	-1.5	20.0
4-Methyl-2-pentanone	0.092	0.076	0.010	-17.4	20.0
Toluene	1.089	1.151	0.010	5.7	20.0
trans-1,3-Dichloropropene	0.218	0.217	0.010	-0.5	20.0
1,1,2-Trichloroethane	0.108	0.100	0.010	-7.4	20.0
1,3-Dichloropropane	0.396	0.367	0.010	-7.3	20.0
Tetrachloroethene	0.443	0.420	0.010	-5.2	20.0
2-Hexanone	0.088	0.075	0.010	-14.8	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromochloromethane	0.265	0.244	0.010	-7.9	20.0
1,2-Dibromoethane	0.185	0.174	0.010	-5.9	20.0
Chlorobenzene	1.129	1.068	0.010	-5.4	20.0
1,1,1,2-Tetrachloroethane	0.378	0.347	0.010	-8.2	20.0
Ethylbenzene	0.623	0.635	0.010	1.9	20.0
m,p-Xylene	0.739	1.561		111.2	
o-Xylene	0.699	0.696		-0.4	
Xylene (Total)	0.726	2.258	0.010	211.0	20.0
Styrene	0.968	0.974	0.100	0.6	20.0
Bromoform	0.113	0.101	0.010	-10.6	20.0
Isopropylbenzene	1.578	1.715	0.010	8.7	20.0
1,1,2,2-Tetrachloroethane	0.535	0.501	0.300	-6.4	20.0
Bromobenzene	0.956	0.920	0.010	-3.8	20.0
1,2,3-Trichloropropane	0.596	0.597	0.010	0.2	20.0
n-Propylbenzene	1.225	1.301	0.010	6.2	20.0
2-Chlorotoluene	1.213	1.221	0.010	0.7	20.0
1,3,5-Trimethylbenzene	3.643	3.991	0.010	9.6	20.0
4-Chlorotoluene	1.121	1.149	0.010	2.5	20.0
tert-Butylbenzene	3.655	3.935	0.010	7.7	20.0
1,2,4-Trimethylbenzene	3.304	3.617	0.010	9.5	20.0
sec-Butylbenzene	4.261	4.824	0.010	13.2	20.0
4-Isopropyltoluene	3.250	3.594	0.010	10.6	20.0
1,3-Dichlorobenzene	1.971	1.936	0.010	-1.8	20.0
1,4-Dichlorobenzene	1.849	1.787	0.010	-3.4	20.0
n-Butylbenzene	2.686	2.910	0.010	8.3	20.0
1,2-Dichlorobenzene	1.520	1.485	0.010	-2.3	20.0
1,2-Dibromo-3-chloropropane	0.057	0.055	0.010	-3.5	20.0
1,2,4-Trichlorobenzene	0.633	0.575	0.010	-9.2	20.0
Hexachlorobutadiene	0.527	0.459	0.010	-12.9	20.0
1,2,3-Trichlorobenzene	0.514	0.441	0.010	-14.2	20.0
Naphthalene	0.692	0.579	0.010	-16.3	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/27/05 Time: 9:29

Lab File ID: V1G5601.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101R Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.286	0.010	-3.1	20.0
1,2-Dichloroethane-d4	0.041	0.042	0.010	2.4	20.0
Toluene-d8	0.990	1.037	0.010	4.7	20.0
Bromofluorobenzene	0.527	0.508	0.010	-3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.298	0.293	0.010	-1.7	20.0
Chloromethane	0.622	0.639	0.100	2.7	20.0
Vinyl chloride	0.547	0.553	0.010	1.1	20.0
Bromomethane	0.361	0.377	0.010	4.4	20.0
Chloroethane	0.313	0.312	0.300	-0.3	20.0
Trichlorofluoromethane	0.329	0.368	0.010	11.9	20.0
1,1-Dichloroethene	0.304	0.310	0.010	2.0	20.0
Acetone	0.033	0.034	0.010	3.0	20.0
Carbon disulfide	1.065	1.109	0.010	4.1	20.0
Methylene chloride	0.311	0.262	0.010	-15.8	20.0
trans-1,2-Dichloroethene	0.334	0.345	0.010	3.3	20.0
Methyl tert-butyl ether	0.362	0.326	0.100	-9.9	20.0
1,1-Dichloroethane	0.653	0.626	0.010	-4.1	20.0
2-Butanone	0.052	0.048	0.010	-7.7	20.0
cis-1,2-Dichloroethene	0.313	0.303	0.010	-3.2	20.0
2,2-Dichloropropane	0.483	0.517	0.010	7.0	20.0
Bromochloromethane	0.107	0.098	0.010	-8.4	20.0
Chloroform	0.649	0.548	0.010	-15.6	20.0
1,1,1-Trichloroethane	0.440	0.456	0.010	3.6	20.0
1,1-Dichloropropene	0.144	0.153	0.010	6.3	20.0
Carbon tetrachloride	0.373	0.378	0.010	1.3	20.0
1,2-Dichloroethane	0.240	0.205	0.010	-14.6	20.0
Benzene	1.235	1.312	0.010	6.2	20.0
Trichloroethene	0.330	0.340	0.010	3.0	20.0
1,2-Dichloropropane	0.294	0.272	0.010	-7.5	20.0
Dibromomethane	0.097	0.089	0.010	-8.2	20.0
Bromodichloromethane	0.307	0.280	0.010	-8.8	20.0
cis-1,3-Dichloropropene	0.334	0.317	0.010	-5.1	20.0
4-Methyl-2-pentanone	0.092	0.075	0.010	-18.5	20.0
Toluene	1.089	1.201	0.010	10.3	20.0
trans-1,3-Dichloropropene	0.218	0.204	0.010	-6.4	20.0
1,1,2-Trichloroethane	0.108	0.101	0.010	-6.5	20.0
1,3-Dichloropropane	0.396	0.366	0.010	-7.6	20.0
Tetrachloroethene	0.443	0.461	0.010	4.1	20.0
2-Hexanone	0.088	0.081	0.010	-8.0	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dibromochloromethane	0.265	0.249	0.010	-6.0	20.0
1,2-Dibromoethane	0.185	0.172	0.010	-7.0	20.0
Chlorobenzene	1.129	1.118	0.010	-1.0	20.0
1,1,1,2-Tetrachloroethane	0.378	0.375	0.010	-0.8	20.0
Ethylbenzene	0.623	0.690	0.010	10.8	20.0
m,p-Xylene	0.739	1.672		126.3	
o-Xylene	0.699	0.754		7.9	
Xylene (Total)	0.726	2.427	0.010	234.3	20.0
Styrene	0.968	1.012	0.100	4.5	20.0
Bromoform	0.113	0.108	0.010	-4.4	20.0
Isopropylbenzene	1.578	1.891	0.010	19.8	20.0
1,1,2,2-Tetrachloroethane	0.535	0.506	0.300	-5.4	20.0
Bromobenzene	0.956	0.953	0.010	-0.3	20.0
1,2,3-Trichloropropane	0.596	0.561	0.010	-5.9	20.0
n-Propylbenzene	1.225	1.333	0.010	8.8	20.0
2-Chlorotoluene	1.213	1.285	0.010	5.9	20.0
1,3,5-Trimethylbenzene	3.643	4.218	0.010	15.8	20.0
4-Chlorotoluene	1.121	1.163	0.010	3.7	20.0
tert-Butylbenzene	3.655	4.229	0.010	15.7	20.0
1,2,4-Trimethylbenzene	3.304	3.768	0.010	14.0	20.0
sec-Butylbenzene	4.261	5.185	0.010	21.7	20.0
4-Isopropyltoluene	3.250	3.837	0.010	18.1	20.0
1,3-Dichlorobenzene	1.971	1.975	0.010	0.2	20.0
1,4-Dichlorobenzene	1.849	1.826	0.010	-1.2	20.0
n-Butylbenzene	2.686	3.089	0.010	15.0	20.0
1,2-Dichlorobenzene	1.520	1.494	0.010	-1.7	20.0
1,2-Dibromo-3-chloropropane	0.057	0.050	0.010	-12.3	20.0
1,2,4-Trichlorobenzene	0.633	0.583	0.010	-7.9	20.0
Hexachlorobutadiene	0.527	0.522	0.010	-0.9	20.0
1,2,3-Trichlorobenzene	0.514	0.437	0.010	-15.0	20.0
Naphthalene	0.692	0.573	0.010	-17.2	20.0

All other compounds must meet a minimum RRF of 0.010.

7B

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: V1 Calibration Date: 01/28/05 Time: 10:18

Lab File ID: V1G5631.D Init. Calib. Date(s): 01/26/05 01/26/05

EPA Sample No.(VSTD050##): VSTD0101S Init. Calib. Times: 15:58 18:34

Heated Purge: (Y/N) N

GC Column: DB-624 ID: 0.25 (mm)

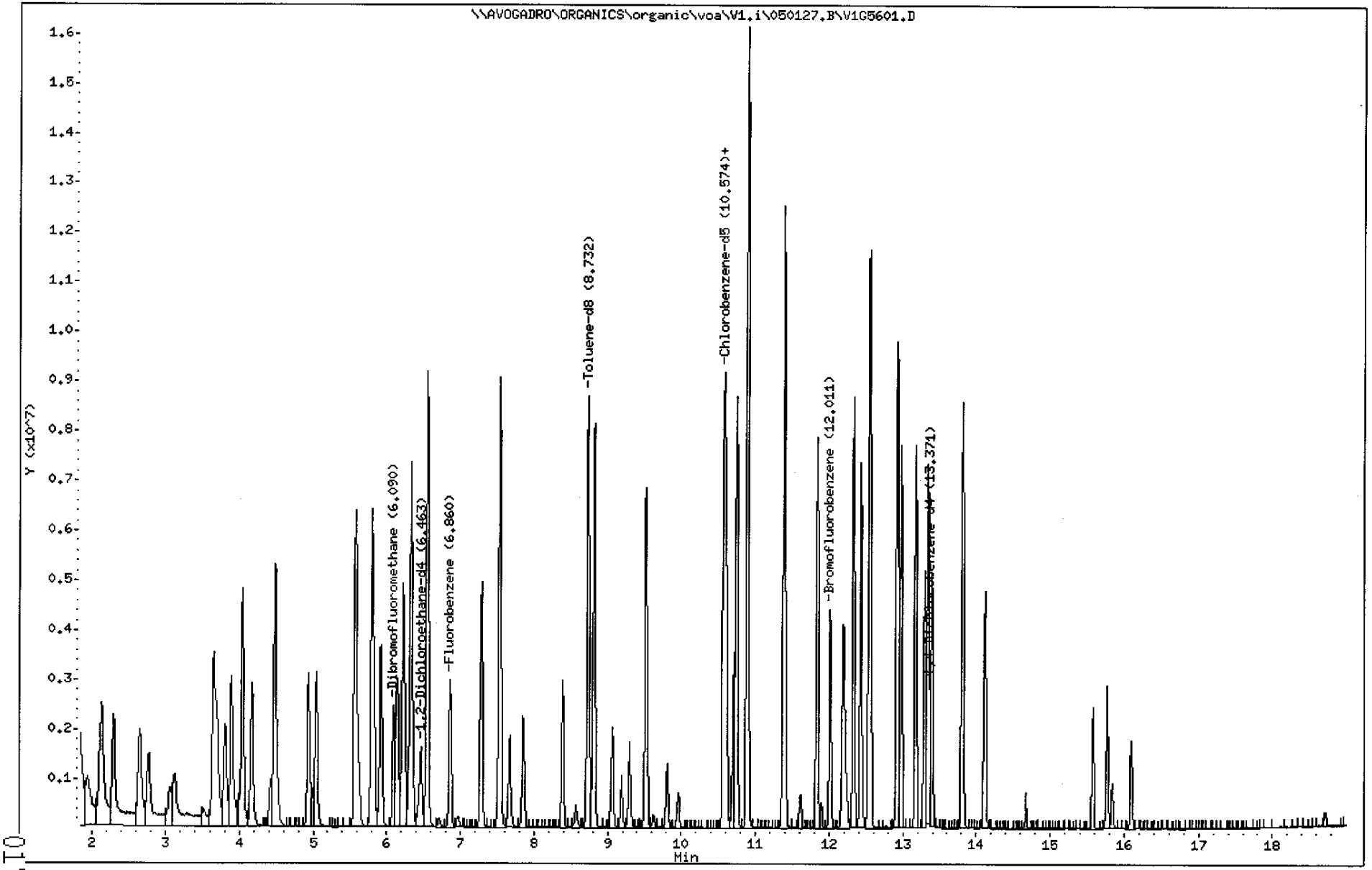
COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.295	0.279	0.010	-5.4	20.0
1,2-Dichloroethane-d4	0.041	0.040	0.010	-2.4	20.0
Toluene-d8	0.990	1.074	0.010	8.5	20.0
Bromofluorobenzene	0.527	0.515	0.010	-2.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5601.D
Date : 27-JAN-2005 09:29
Client ID: VSTD0101R
Sample Info: ,VSTD0101R,VSTD0101R
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5601.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5601.D
Lab Smp Id: VSTD0101R Client Smp ID: VSTD0101R
Inj Date : 27-JAN-2005 09:29
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0101R,VSTD0101R
Misc Info : ,2
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.949	1.949	(0.284)	1718755	10.0000	10
2 Chloromethane	50	2.128	2.128	(0.310)	3664393	10.0000	10
3 Vinyl Chloride	62	2.291	2.291	(0.334)	3197312	10.0000	10
4 Bromomethane	94	2.656	2.656	(0.387)	2185062	10.0000	10
5 Chloroethane	64	2.773	2.773	(0.404)	1845655	10.0000	10
6 Trichlorofluoromethane	101	3.122	3.122	(0.455)	1957436	10.0000	10
7 1,1-Dichloroethene	96	3.651	3.651	(0.532)	1786249	10.0000	10
121 Acetone	43	3.697	3.697	(0.539)	314330	10.0000	16
123 Carbon Disulfide	76	3.891	3.891	(0.567)	6296257	10.0000	10
9 Methylene Chloride	84	4.171	4.171	(0.608)	1620761	10.0000	9
10 trans-1,2-Dichloroethene	96	4.482	4.482	(0.653)	1979116	10.0000	10
11 Methyl tert-butyl ether	73	4.497	4.497	(0.656)	1989523	10.0000	9
12 1,1-Dichloroethane	63	4.933	4.933	(0.719)	3769375	10.0000	10
14 2-Butanone	43	5.578	5.578	(0.813)	325326	10.0000	10
13 cis-1,2-Dichloroethene	96	5.570	5.570	(0.812)	1798695	10.0000	10
15 2,2-Dichloropropane	77	5.585	5.585	(0.814)	2960119	10.0000	10

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5601.D
Report Date: 01-Feb-2005 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 Bromochloromethane	128	5.826	5.826	(0.849)	638231	10.0000	10
	17 Chloroform	83	5.920	5.920	(0.863)	3292237	10.0000	8
$	18 Dibromofluoromethane	113	6.090	6.090	(0.888)	1712915	10.0000	10
	20 1,1,1-Trichloroethane	97	6.145	6.145	(0.896)	2621638	10.0000	10
	21 1,1-Dichloropropene	110	6.324	6.324	(0.922)	869229	10.0000	10
	22 Carbon Tetrachloride	117	6.339	6.339	(0.924)	2261016	10.0000	10
$	23 1,2-Dichloroethane-d4	102	6.463	6.463	(0.942)	252630	10.0000	10
	24 1,2-Dichloroethane	62	6.549	6.549	(0.955)	1393115	10.0000	10
	25 Benzene	78	6.549	6.549	(0.955)	7750392	10.0000	10
*	26 Fluorobenzene	96	6.860	6.860	(1.000)	2996812	5.00000	
	27 Trichloroethene	130	7.287	7.287	(1.062)	1956707	10.0000	10
	28 1,2-Dichloropropane	63	7.536	7.536	(1.099)	1664556	10.0000	9
	29 Dibromomethane	93	7.668	7.668	(1.118)	553431	10.0000	10
	30 Bromodichloromethane	83	7.846	7.846	(1.144)	1784874	10.0000	10
	31 cis-1,3-Dichloropropene	75	8.390	8.390	(1.223)	1972967	10.0000	10
	32 4-Methyl-2-pentanone	43	8.569	8.569	(1.249)	457746	10.0000	8
$	33 Toluene-d8	98	8.732	8.732	(1.273)	6214517	10.0000	10
	34 Toluene	91	8.818	8.818	(1.285)	6898230	10.0000	10
	35 trans-1,3-Dichloropropene	75	9.066	9.066	(1.322)	1298394	10.0000	10
	36 1,1,2-Trichloroethane	97	9.300	9.300	(1.356)	601318	10.0000	9
	37 1,3-Dichloropropane	76	9.517	9.517	(0.901)	1264814	10.0000	9
	38 Tetrachloroethene	164	9.517	9.517	(0.901)	1447234	10.0000	9
	122 2-Hexanone	43	9.618	9.618	(1.402)	259286	10.0000	9
	40 Dibromochloromethane	129	9.805	9.805	(0.928)	841160	10.0000	9
	41 1,2-Dibromoethane	107	9.960	9.960	(0.943)	598841	10.0000	9
*	43 Chlorobenzene-d5	117	10.566	10.566	(1.000)	1720877	5.00000	
	44 Chlorobenzene	112	10.605	10.605	(1.004)	3676994	10.0000	9
	45 1,1,1,2-Tetrachloroethane	131	10.706	10.706	(1.013)	1195087	10.0000	9
	46 Ethylbenzene	106	10.745	10.745	(1.017)	2186182	10.0000	10
	47 m,p-Xylene	106	10.892	10.892	(1.031)	5374258	20.0000	21
	48 o-Xylene	106	11.382	11.382	(1.077)	2395739	10.0000	10
M	60 Xylene (Total)	106				7769997	30.0000	31
	49 Styrene	104	11.397	11.397	(1.079)	3352646	10.0000	10
	50 Bromoform	173	11.615	11.615	(0.869)	349032	10.0000	9
	51 Isopropylbenzene	105	11.833	11.833	(0.885)	5902415	10.0000	11
$	52 Bromofluorobenzene	95	12.011	12.011	(1.137)	1747590	10.0000	10
	53 1,1,2,2-Tetrachloroethane	83	12.175	12.175	(0.911)	619721	10.0000	9
	54 Bromobenzene	156	12.198	12.198	(0.912)	1137166	10.0000	10
	55 1,2,3-Trichloropropane	75	12.229	12.229	(0.915)	738249	10.0000	10
	56 n-Propylbenzene	120	12.330	12.330	(0.922)	1608426	10.0000	11
	57 2-Chlorotoluene	126	12.431	12.431	(0.930)	1510095	10.0000	10
	58 1,3,5-Trimethylbenzene	105	12.540	12.540	(0.938)	4934597	10.0000	11
	59 4-Chlorotoluene	126	12.555	12.555	(0.939)	1420796	10.0000	10
	61 tert-Butylbenzene	119	12.920	12.920	(0.966)	4865756	10.0000	11
	62 1,2,4-Trimethylbenzene	105	12.975	12.975	(0.970)	4472280	10.0000	11
	63 sec-Butylbenzene	105	13.177	13.177	(0.985)	5964132	10.0000	11
	65 4-Isopropyltoluene	119	13.340	13.340	(0.998)	4443593	10.0000	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5601.D
Report Date: 01-Feb-2005 11:49

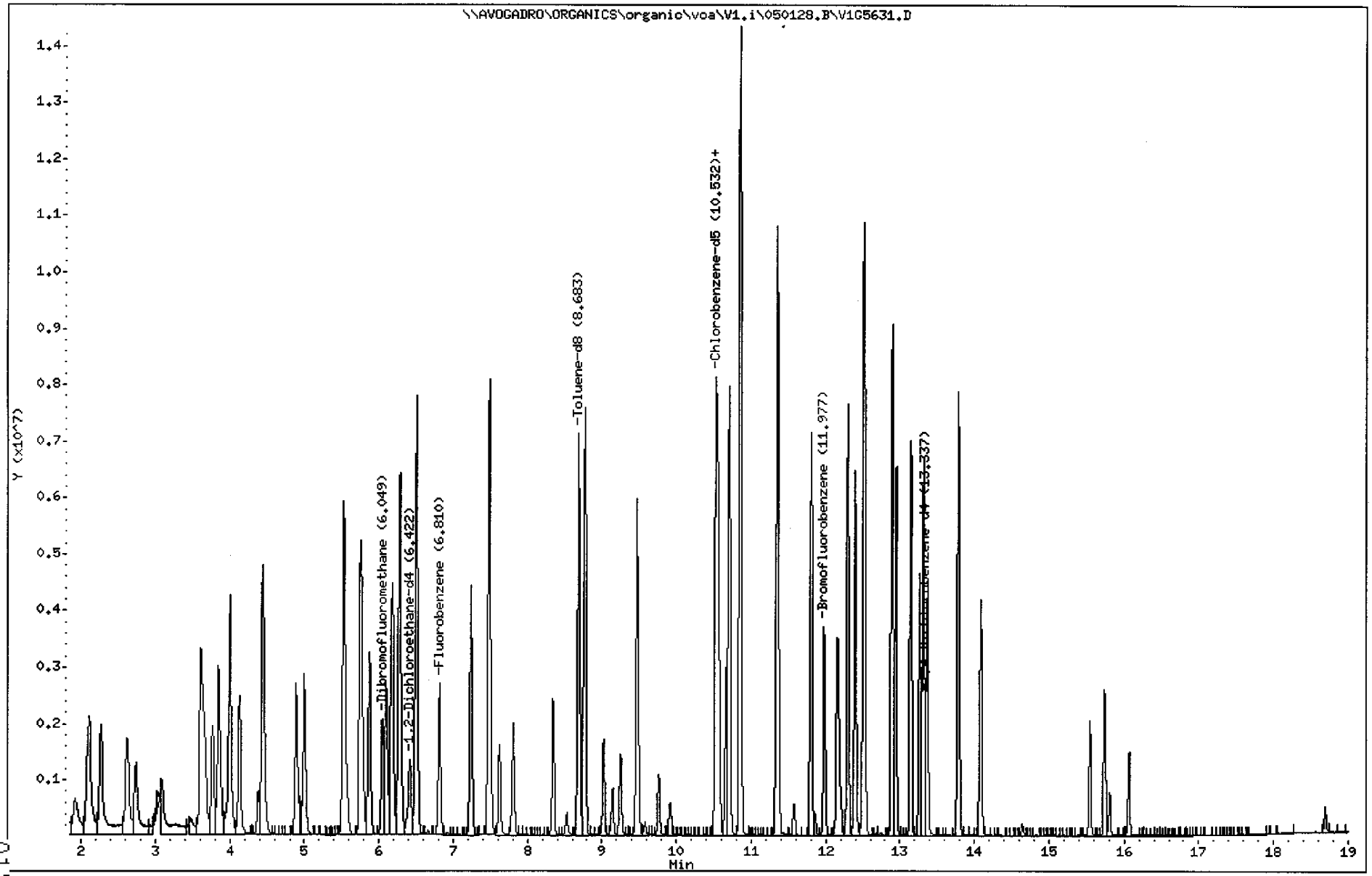
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 1,3-Dichlorobenzene	146	13.301	13.301	(0.995)	2394261	10.0000	10
* 66 1,4-Dichlorobenzene-d4	152	13.371	13.371	(1.000)	618222	5.00000	
67 1,4-Dichlorobenzene	146	13.394	13.394	(1.002)	2209436	10.0000	10
68 n-Butylbenzene	91	13.806	13.806	(1.033)	3598409	10.0000	11
69 1,2-Dichlorobenzene	146	13.822	13.822	(1.034)	1835700	10.0000	10
70 1,2-Dibromo-3-chloropropane	75	14.669	14.669	(1.097)	68120	10.0000	10
71 1,2,4-Trichlorobenzene	180	15.578	15.578	(1.165)	711561	10.0000	9
72 Hexachlorobutadiene	225	15.764	15.764	(1.179)	567685	10.0000	9
73 Naphthalene	128	15.834	15.834	(1.184)	715691	10.0000	8
74 1,2,3-Trichlorobenzene	180	16.091	16.091	(1.203)	545832	10.0000	8

2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5631.D
Date : 28-JAN-2005 10:18
Client ID: VSTD0101S
Sample Info: ,VSTD0101S,VSTD0101S
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: HS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5631.D
Report Date: 01-Feb-2005 13:03

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5631.D
Lab Smp Id: VSTD0101S Client Smp ID: VSTD0101S
Inj Date : 28-JAN-2005 10:18
Operator : MS Inst ID: v1.i
Smp Info : ,VSTD0101S,VSTD0101S
Misc Info : ,2
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.915	1.915	(0.281)	1539403	10.0000	10
2 Chloromethane	50	2.109	2.109	(0.310)	3355807	10.0000	10
3 Vinyl Chloride	62	2.265	2.265	(0.333)	2903025	10.0000	10
4 Bromomethane	94	2.622	2.622	(0.385)	1980516	10.0000	10
5 Chloroethane	64	2.739	2.739	(0.402)	1637827	10.0000	10
6 Trichlorofluoromethane	101	3.080	3.080	(0.452)	1934077	10.0000	11
7 1,1-Dichloroethene	96	3.609	3.609	(0.530)	1629856	10.0000	10
121 Acetone	43	3.655	3.655	(0.537)	176210	10.0000	10
123 Carbon Disulfide	76	3.850	3.850	(0.565)	5822271	10.0000	10
9 Methylene Chloride	84	4.129	4.129	(0.606)	1375211	10.0000	8
10 trans-1,2-Dichloroethene	96	4.440	4.440	(0.652)	1812908	10.0000	10
11 Methyl tert-butyl ether	73	4.456	4.456	(0.654)	1710110	10.0000	9
12 1,1-Dichloroethane	63	4.891	4.891	(0.718)	3283771	10.0000	10
14 2-Butanone	43	5.536	5.536	(0.813)	251871	10.0000	9
13 cis-1,2-Dichloroethene	96	5.520	5.520	(0.811)	1592426	10.0000	10
15 2,2-Dichloropropane	77	5.536	5.536	(0.813)	2716188	10.0000	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5631.D
Report Date: 01-Feb-2005 13:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 Bromochloromethane	128	5.785	5.785	(0.849)	514031	10.0000	9
	17 Chloroform	83	5.870	5.870	(0.862)	2877499	10.0000	8
$	18 Dibromofluoromethane	113	6.049	6.049	(0.888)	1463943	10.0000	9
	20 1,1,1-Trichloroethane	97	6.095	6.095	(0.895)	2393177	10.0000	10
	21 1,1-Dichloropropene	110	6.274	6.274	(0.921)	801021	10.0000	11
	22 Carbon Tetrachloride	117	6.290	6.290	(0.924)	1984439	10.0000	10
$	23 1,2-Dichloroethane-d4	102	6.422	6.422	(0.943)	208926	10.0000	10
	24 1,2-Dichloroethane	62	6.507	6.507	(0.956)	1075301	10.0000	8
	25 Benzene	78	6.499	6.499	(0.954)	6888174	10.0000	11
*	26 Fluorobenzene	96	6.810	6.810	(1.000)	2624582	5.00000	
	27 Trichloroethene	130	7.237	7.237	(1.063)	1784058	10.0000	10
	28 1,2-Dichloropropane	63	7.486	7.486	(1.099)	1427135	10.0000	9
	29 Dibromomethane	93	7.626	7.626	(1.120)	469599	10.0000	9
	30 Bromodichloromethane	83	7.805	7.805	(1.146)	1470847	10.0000	9
	31 cis-1,3-Dichloropropene	75	8.349	8.349	(1.226)	1662601	10.0000	9
	32 4-Methyl-2-pentanone	43	8.527	8.527	(1.252)	393884	10.0000	8
$	33 Toluene-d8	98	8.691	8.691	(1.276)	5636446	10.0000	11
	34 Toluene	91	8.768	8.768	(1.288)	6306734	10.0000	11
	35 trans-1,3-Dichloropropene	75	9.025	9.025	(1.325)	1071070	10.0000	9
	36 1,1,2-Trichloroethane	97	9.250	9.250	(1.358)	531987	10.0000	9
	37 1,3-Dichloropropane	76	9.468	9.468	(0.900)	1048105	10.0000	9
	38 Tetrachloroethene	164	9.468	9.468	(0.900)	1318682	10.0000	10
	122 2-Hexanone	43	9.576	9.576	(1.406)	230820	10.0000	9
	40 Dibromochloromethane	129	9.763	9.763	(0.928)	711688	10.0000	9 (T)
	41 1,2-Dibromoethane	107	9.918	9.918	(0.942)	491033	10.0000	9
*	43 Chlorobenzene-d5	117	10.524	10.524	(1.000)	1430907	5.00000	
	44 Chlorobenzene	112	10.563	10.563	(1.004)	3198308	10.0000	10
	45 1,1,1,2-Tetrachloroethane	131	10.664	10.664	(1.013)	1072440	10.0000	10
	46 Ethylbenzene	106	10.703	10.703	(1.017)	1974223	10.0000	11
	47 m,p-Xylene	106	10.851	10.851	(1.031)	4786006	20.0000	23
	48 o-Xylene	106	11.348	11.348	(1.078)	2159018	10.0000	11
M	60 Xylene (Total)	106				6945024	30.0000	33
	49 Styrene	104	11.364	11.364	(1.080)	2896346	10.0000	10
	50 Bromoform	173	11.573	11.573	(0.868)	310236	10.0000	10 (T)
	51 Isopropylbenzene	105	11.806	11.806	(0.885)	5410342	10.0000	12
$	52 Bromofluorobenzene	95	11.977	11.977	(1.138)	1474949	10.0000	10
	53 1,1,2,2-Tetrachloroethane	83	12.141	12.141	(0.910)	537418	10.0000	9
	54 Bromobenzene	156	12.164	12.164	(0.912)	1012921	10.0000	10
	55 1,2,3-Trichloropropane	75	12.195	12.195	(0.914)	596567	10.0000	9
	56 n-Propylbenzene	120	12.296	12.296	(0.922)	1416691	10.0000	11
	57 2-Chlorotoluene	126	12.397	12.397	(0.929)	1365542	10.0000	10
	58 1,3,5-Trimethylbenzene	105	12.506	12.506	(0.938)	4482813	10.0000	12
	59 4-Chlorotoluene	126	12.521	12.521	(0.939)	1236484	10.0000	10
	61 tert-Butylbenzene	119	12.894	12.894	(0.967)	4494959	10.0000	12
	62 1,2,4-Trimethylbenzene	105	12.949	12.949	(0.971)	4004983	10.0000	11
	63 sec-Butylbenzene	105	13.143	13.143	(0.985)	5510606	10.0000	12
	65 4-Isopropyltoluene	119	13.314	13.314	(0.998)	4077615	10.0000	12

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5631.D
Report Date: 01-Feb-2005 13:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 1,3-Dichlorobenzene	146	13.267	13.267	(0.995)	2099172	10.0000	10
* 66 1,4-Dichlorobenzene-d4	152	13.337	13.337	(1.000)	531406	5.00000	
67 1,4-Dichlorobenzene	146	13.368	13.368	(1.002)	1940720	10.0000	10
68 n-Butylbenzene	91	13.780	13.780	(1.033)	3283305	10.0000	12
69 1,2-Dichlorobenzene	146	13.788	13.788	(1.034)	1587761	10.0000	10
70 1,2-Dibromo-3-chloropropane	75	14.643	14.643	(1.098)	53048	10.0000	9
71 1,2,4-Trichlorobenzene	180	15.552	15.552	(1.166)	619575	10.0000	9
72 Hexachlorobutadiene	225	15.746	15.746	(1.181)	555029	10.0000	10
73 Naphthalene	128	15.808	15.808	(1.185)	608878	10.0000	8
74 1,2,3-Trichlorobenzene	180	16.072	16.072	(1.205)	464879	10.0000	8

QC Flag Legend

T - Target compound detected outside RT window.

SB
2/1/05

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5580.D

Date : 26-JAN-2005 15:27

Client ID: BFB1P

Instrument: v1.i

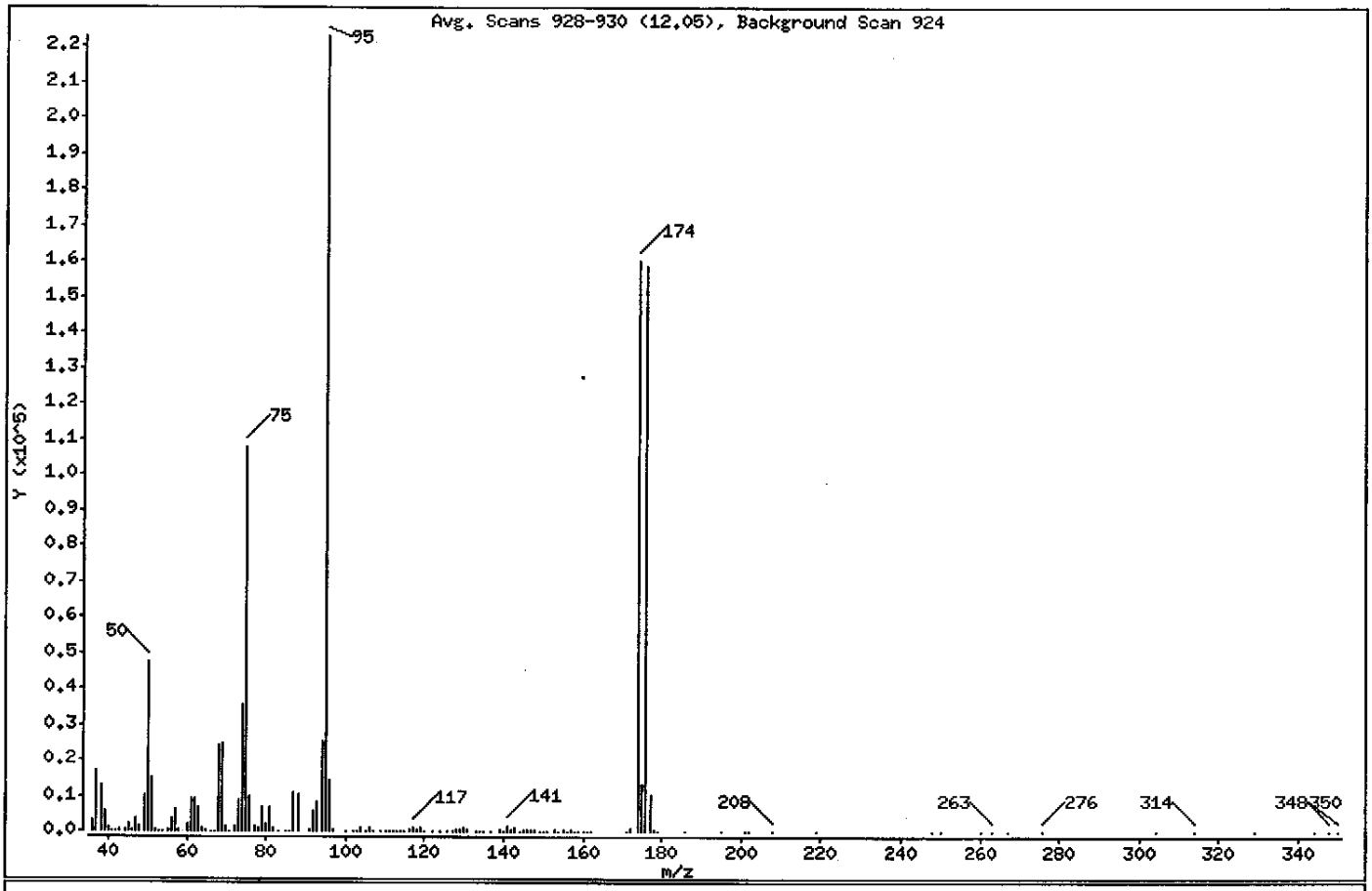
Sample Info: ,BFB1P,BFB1P

Operator: MS

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.23
75	30.00 - 60.00% of mass 95	48.33
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.97
175	5.00 - 9.00% of mass 174	6.03 (8.37)
176	95.00 - 101.00% of mass 174	71.23 (98.96)
177	5.00 - 9.00% of mass 176	4.71 (6.61)

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5580.D

Date : 26-JAN-2005 15:27

Client ID: BFB1P

Instrument: v1.i

Sample Info: ,BFB1P,BFB1P

Operator: MS

Column phase: DB-624

Column diameter: 0.25

Data File: V1G5580.D
Spectrum: Avg. Scans 928-930 (12.05), Background Scan 924
Location of Maximum: 95.00
Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2955	72.00	1324	114.00	41	156.00	86
37.00	17000	73.00	8697	115.00	182	157.00	486
38.00	12767	74.00	35424	116.00	616	158.00	73
39.00	5484	75.00	107608	117.00	1174	159.00	160
40.00	1043	76.00	9562	118.00	528	160.00	55
41.00	149	77.00	1697	119.00	997	161.00	140
42.00	161	78.00	970	120.00	48	162.00	53
43.00	319	79.00	6465	122.00	35	171.00	254
44.00	368	80.00	2227	124.00	68	172.00	913
45.00	2232	81.00	6774	126.00	51	174.00	160256
46.00	283	82.00	1135	127.00	72	175.00	13416
47.00	3812	83.00	205	128.00	608	176.00	158592
48.00	1603	85.00	42	129.00	540	177.00	10483
49.00	10232	86.00	128	130.00	774	178.00	274
50.00	47264	87.00	11011	131.00	324	179.00	54
51.00	14698	88.00	10316	133.00	46	186.00	63
52.00	640	91.00	550	134.00	40	195.00	33
53.00	98	92.00	5486	135.00	219	201.00	53
54.00	35	93.00	8198	137.00	127	202.00	44
55.00	519	94.00	25280	139.00	282	208.00	141
56.00	3528	95.00	222656	140.00	64	219.00	37
57.00	6269	96.00	14521	141.00	1297	248.00	35
58.00	343	97.00	354	142.00	508	250.00	35
60.00	1937	100.00	35	143.00	1240	260.00	35
61.00	9085	102.00	34	144.00	147	263.00	40
62.00	9024	103.00	79	145.00	278	267.00	38
63.00	6906	104.00	785	146.00	394	276.00	45
64.00	820	105.00	87	147.00	259	304.00	38
65.00	727	106.00	865	148.00	485	314.00	41
66.00	197	107.00	173	149.00	98	329.00	34
67.00	115	109.00	157	150.00	179	344.00	36
68.00	24128	110.00	92	151.00	73	348.00	38
69.00	24584	111.00	225	153.00	257	350.00	44
70.00	1794	112.00	240	154.00	131		
71.00	86	113.00	39	155.00	462		

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050126A.B\V1G5580.D

Date : 26-JAN-2005 15:27

Client ID: BFB1P

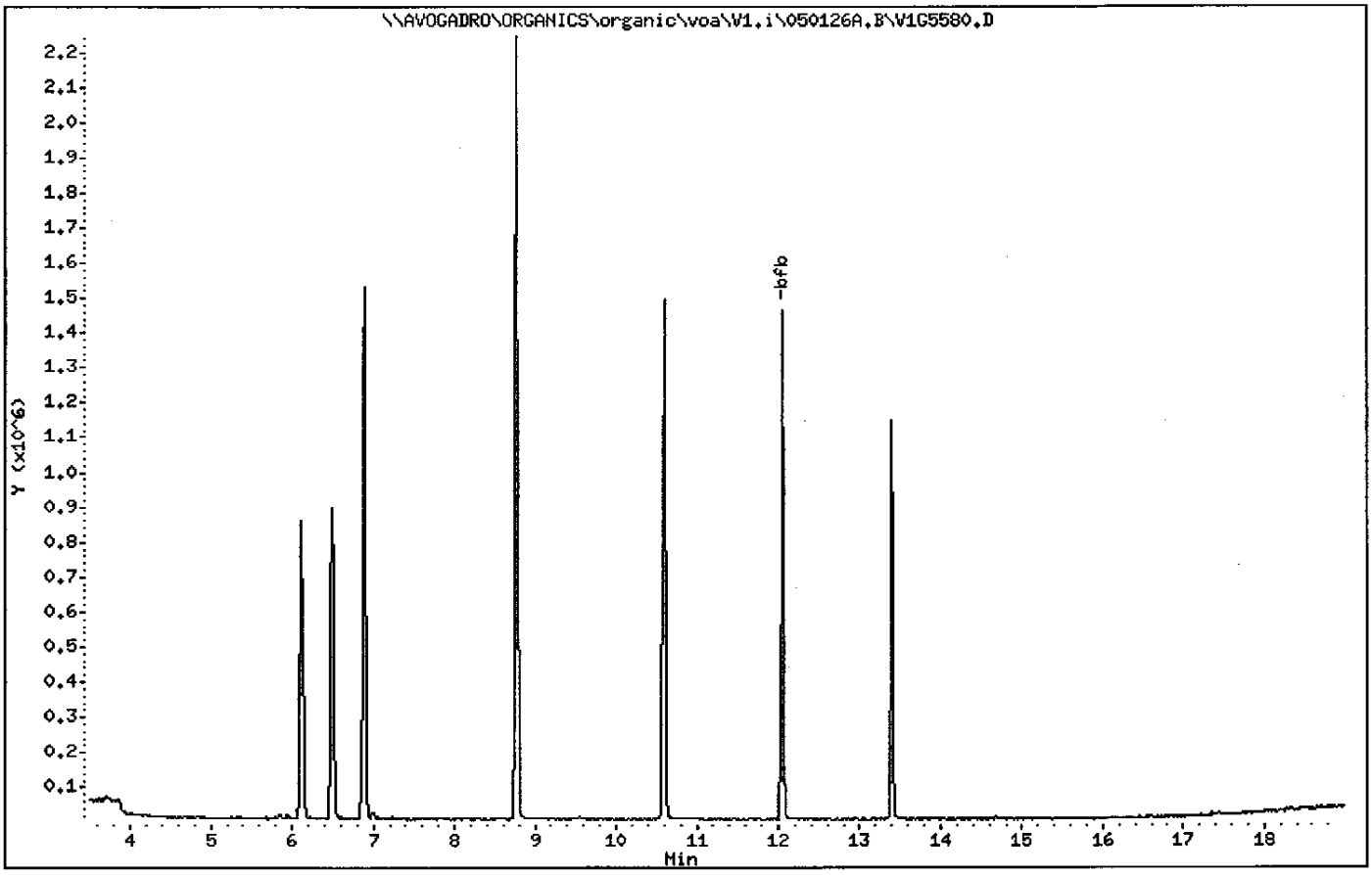
Instrument: v1.i

Sample Info: ,BFB1P,BFB1P

Operator: MS

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5600.D

Date : 27-JAN-2005 08:59

Client ID: BFB1R

Instrument: v1.i

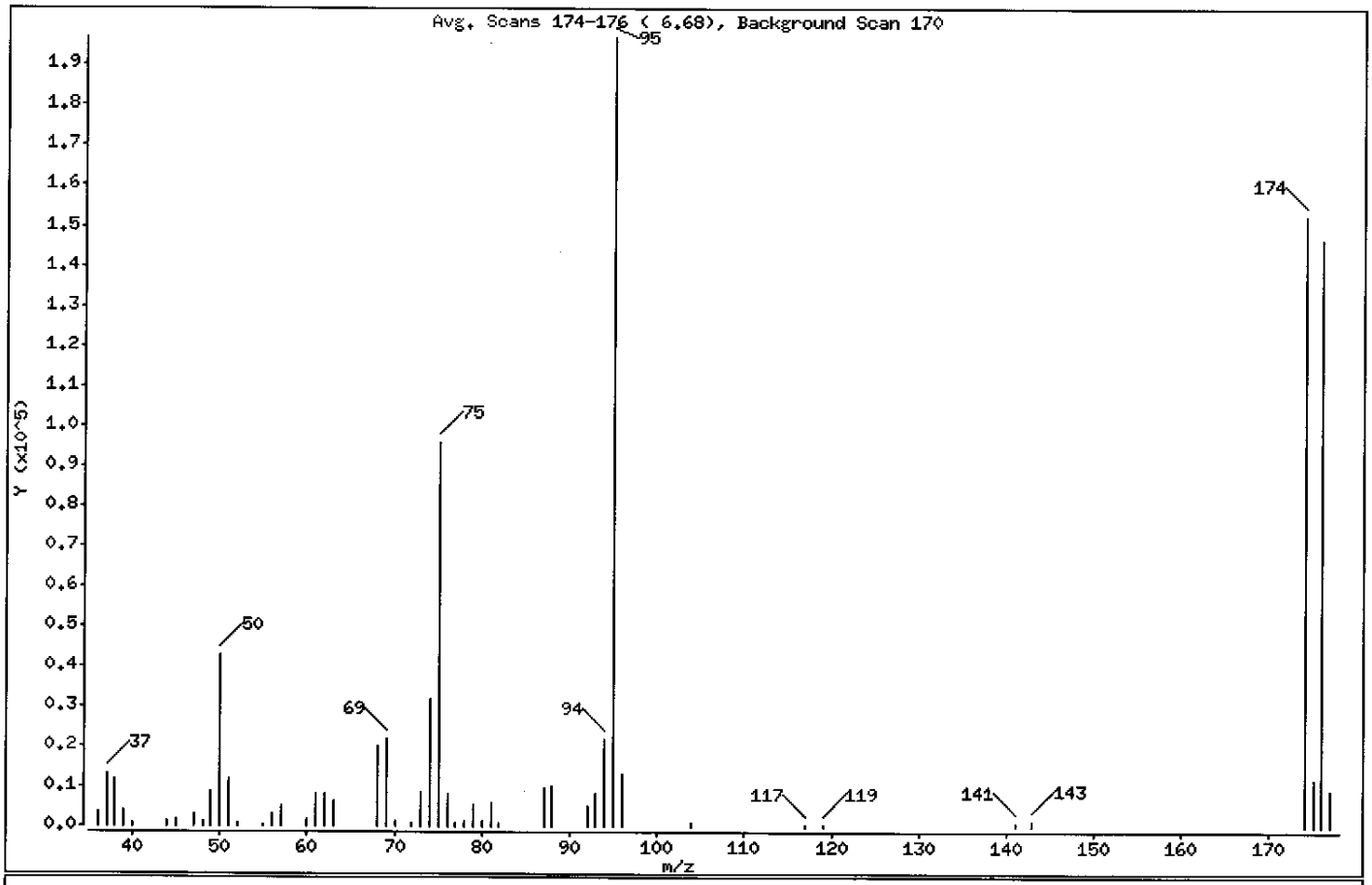
Sample Info: ,BFB1R,BFB1R

Operator: MS

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.65
75	30.00 - 60.00% of mass 95	48.54
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.49
175	5.00 - 9.00% of mass 174	6.04 (7.79)
176	95.00 - 101.00% of mass 174	74.33 (95.93)
177	5.00 - 9.00% of mass 176	4.65 (6.25)

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5600.D

Date : 27-JAN-2005 08:59

Client ID: BFB1R

Instrument: v1.i

Sample Info: ,BFB1R,BFB1R

Operator: MS

Column phase: DB-624

Column diameter: 0.25

Data File: V1G5600.D

Spectrum: Avg. Scans 174-176 (6.68), Background Scan 170

Location of Maximum: 95.00

Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3524	55.00	499	75.00	95624	95.00	196992
37.00	12949	56.00	3364	76.00	8254	96.00	13232
38.00	11881	57.00	5161	77.00	1020	104.00	811
39.00	4134	60.00	1771	78.00	1148	117.00	356
40.00	968	61.00	8179	79.00	5545	119.00	432
44.00	1395	62.00	8225	80.00	1356	141.00	802
45.00	1881	63.00	6497	81.00	5944	143.00	1161
47.00	3239	68.00	20008	82.00	758	174.00	152640
48.00	1560	69.00	21920	87.00	9502	175.00	11891
49.00	8508	70.00	1307	88.00	10195	176.00	146432
50.00	42640	72.00	913	92.00	4880	177.00	9153
51.00	11998	73.00	8513	93.00	8109		
52.00	825	74.00	31800	94.00	21816		

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5600.D

Date : 27-JAN-2005 08:59

Client ID: BFB1R

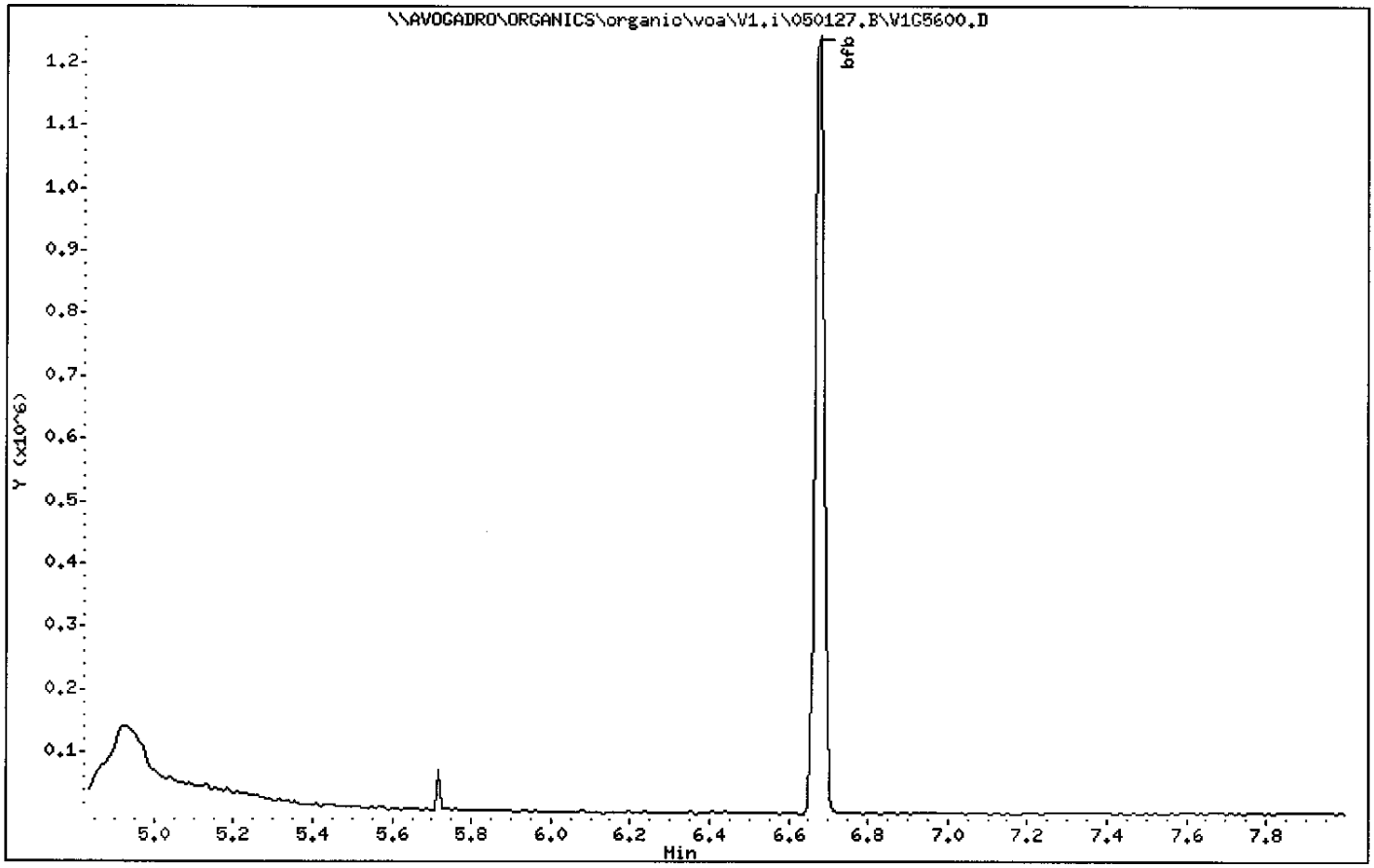
Instrument: v1.i

Sample Info: ,BFB1R,BFB1R

Operator: MS

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5630.D

Date : 28-JAN-2005 09:05

Client ID: BFB1S

Instrument: v1.i

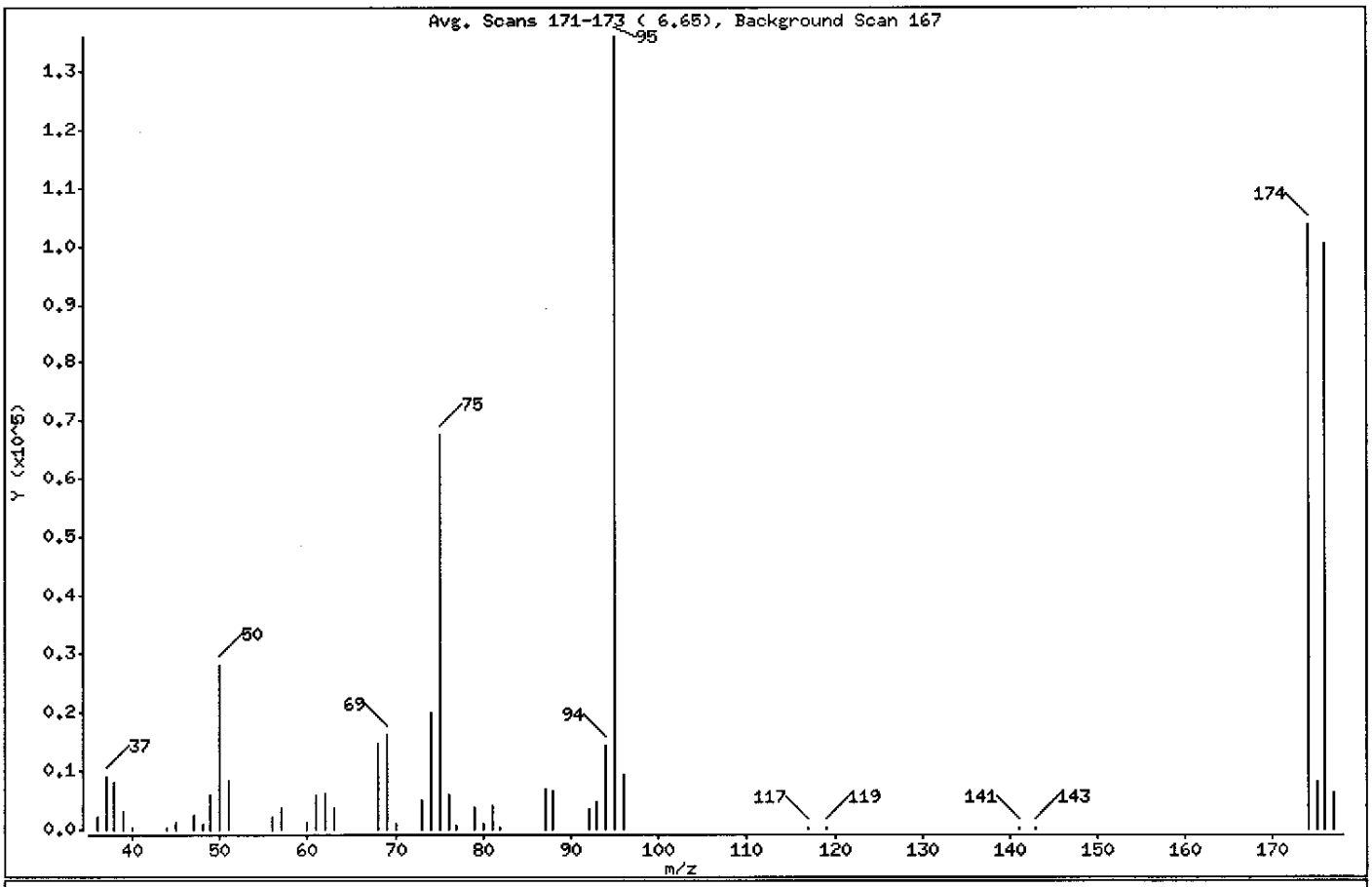
Sample Info: ,BFB1S,BFB1S

Operator: MS

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.70
75	30.00 - 60.00% of mass 95	49.84
96	5.00 - 9.00% of mass 95	6.91
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	76.33
175	5.00 - 9.00% of mass 174	5.90 (7.72)
176	95.00 - 101.00% of mass 174	73.97 (96.91)
177	5.00 - 9.00% of mass 176	4.62 (6.25)

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5630.D

Date : 28-JAN-2005 09:05

Client ID: BFB1S

Instrument: v1.i

Sample Info: ,BFB1S,BFB1S

Operator: MS

Column phase: DB-624

Column diameter: 0.25

Data File: V1G5630.D
Spectrum: Avg. Scans 171-173 (6.65), Background Scan 167
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2093	56.00	2161	76.00	5858	96.00	9386
37.00	9081	57.00	3885	77.00	698	117.00	372
38.00	8085	60.00	1254	79.00	3843	119.00	343
39.00	3284	61.00	6043	80.00	955	141.00	442
40.00	418	62.00	6253	81.00	3924	143.00	465
44.00	267	63.00	3900	82.00	370	174.00	103712
45.00	1386	68.00	14722	87.00	6896	175.00	8010
47.00	2416	69.00	16130	88.00	6504	176.00	100504
48.00	901	70.00	882	92.00	3506	177.00	6280
49.00	5974	73.00	5116	93.00	4603		
50.00	28120	74.00	20168	94.00	14340		
51.00	8375	75.00	67712	95.00	135872		

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5630.D

Date : 28-JAN-2005 09:05

Client ID: BFB1S

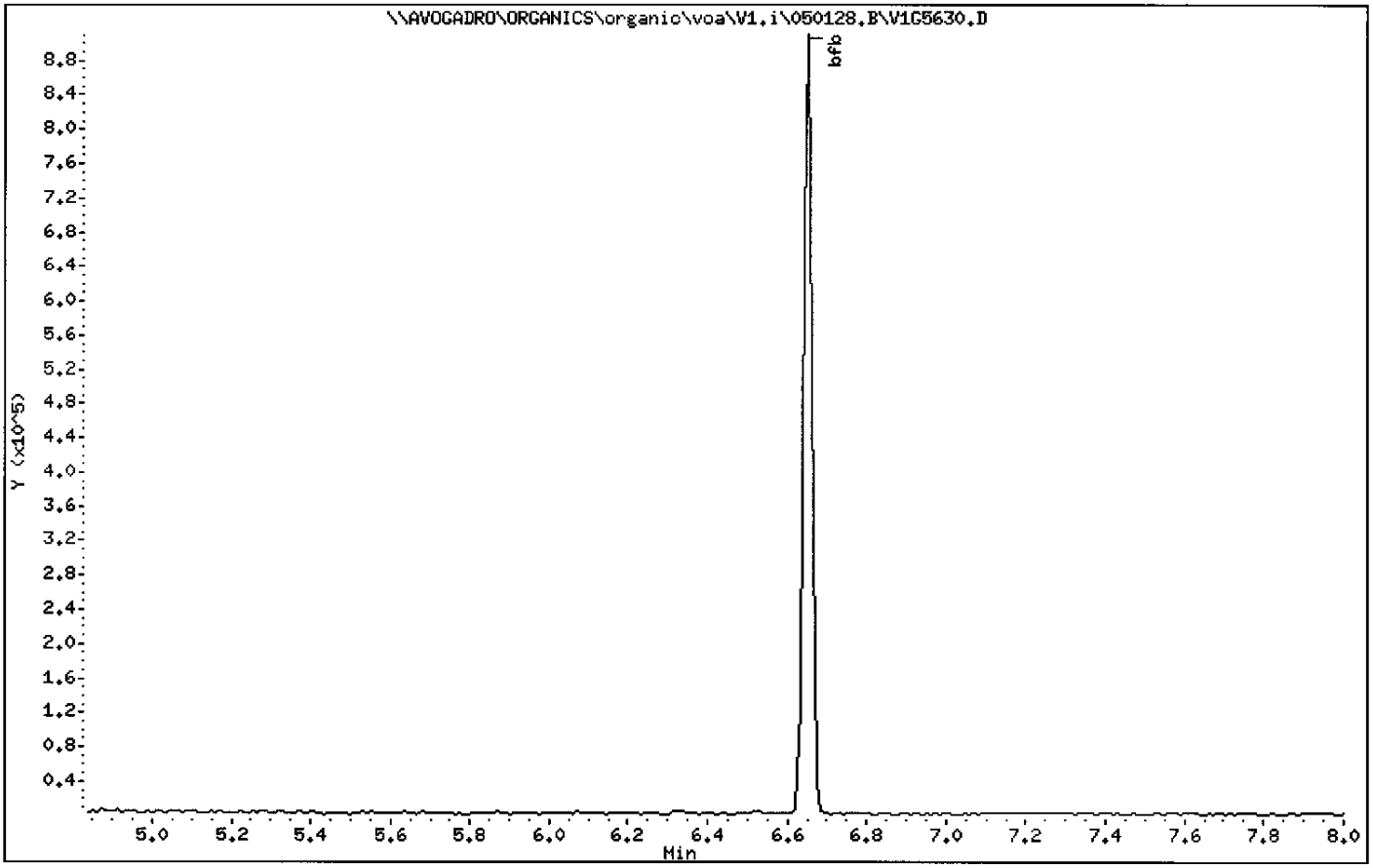
Instrument: v1.i

Sample Info: ,BFB1S,BFB1S

Operator: MS

Column phase: DB-624

Column diameter: 0.25



1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5602.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 10:48

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1R

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5602.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 10:48

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

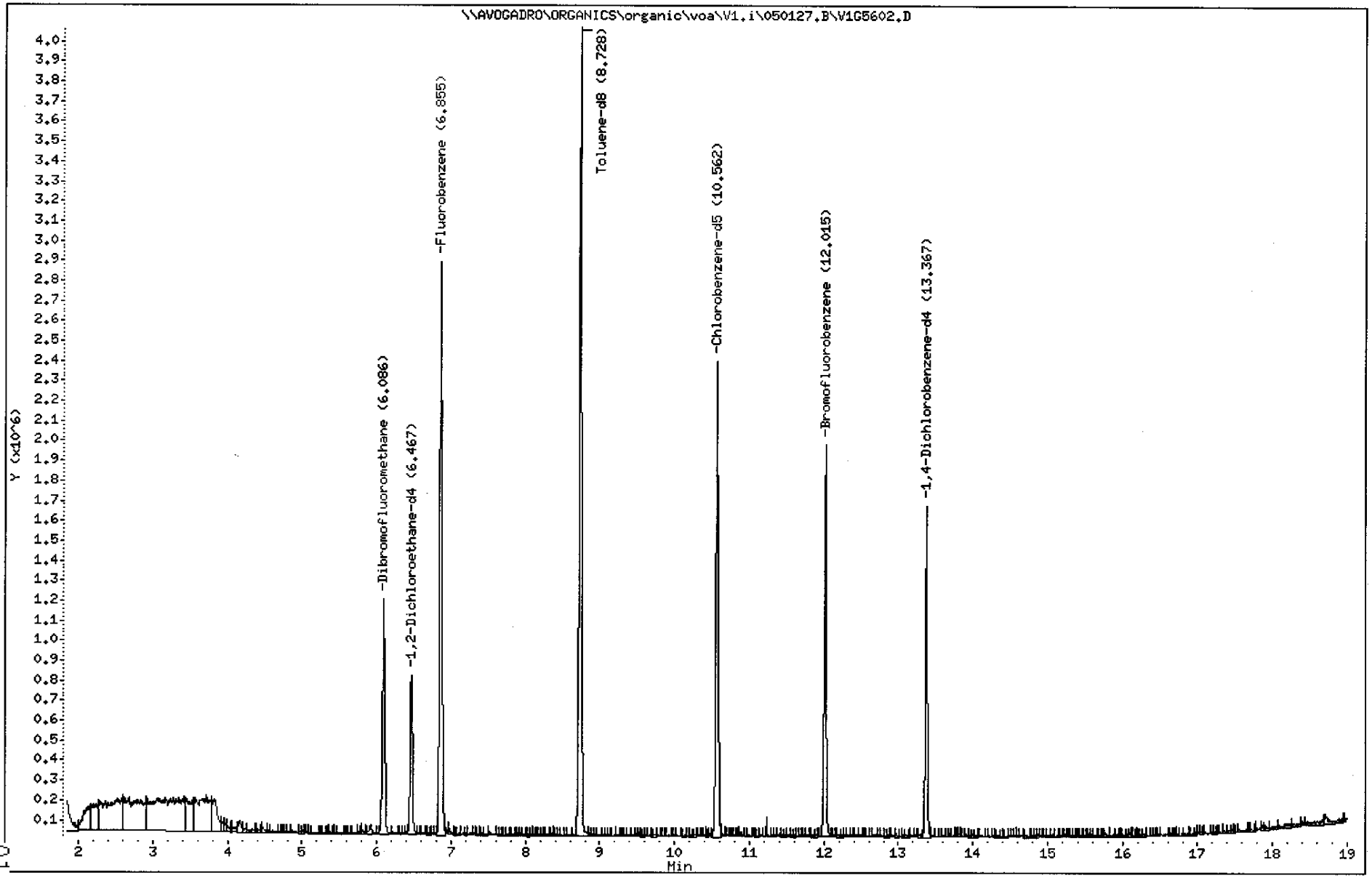
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5602.D
Date : 27-JAN-2005 10:48
Client ID: VBLK1R
Sample Info: ,MB-16639,VBLK1R,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5602.D
Report Date: 01-Feb-2005 11:49

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5602.D
Lab Smp Id: MB-16639 Client Smp ID: VBLK1R
Inj Date : 27-JAN-2005 10:48
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,MB-16639,VBLK1R,16639
Misc Info : ,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.086	6.090	(0.888)	863606	5.10216	5
$ 23 1,2-Dichloroethane-d4	102	6.467	6.463	(0.943)	121205	5.09457	5
* 26 Fluorobenzene	96	6.855	6.860	(1.000)	2865124	5.00000	
$ 33 Toluene-d8	98	8.728	8.732	(1.273)	2998524	5.28625	5
* 43 Chlorobenzene-d5	117	10.562	10.566	(1.000)	1531616	5.00000	
$ 52 Bromofluorobenzene	95	12.015	12.011	(1.138)	766411	4.74490	5
* 66 1,4-Dichlorobenzene-d4	152	13.375	13.371	(1.000)	479757	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5632.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 11:35

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	0.50	U	0.44	0.50
74-87-3	Chloromethane	0.50	U	0.29	0.50
75-01-4	Vinyl chloride	0.50	U	0.21	0.50
74-83-9	Bromomethane	0.50	U	0.21	0.50
75-00-3	Chloroethane	0.50	U	0.24	0.50
75-69-4	Trichlorofluoromethane	0.50	U	0.22	0.50
75-35-4	1,1-Dichloroethene	0.50	U	0.060	0.50
67-64-1	Acetone	5.0	U	0.56	5.0
75-15-0	Carbon disulfide	0.50	U	0.030	0.50
75-09-2	Methylene chloride	0.50	U	0.44	0.50
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.020	0.50
1634-04-4	Methyl tert-butyl ether	0.50	U	0.10	0.50
75-34-3	1,1-Dichloroethane	0.50	U	0.22	0.50
78-93-3	2-Butanone	5.0	U	0.37	5.0
156-59-2	cis-1,2-Dichloroethene	0.50	U	0.020	0.50
594-20-7	2,2-Dichloropropane	0.50	U	0.23	0.50
74-97-5	Bromochloromethane	0.50	U	0.16	0.50
67-66-3	Chloroform	0.50	U	0.19	0.50
71-55-6	1,1,1-Trichloroethane	0.50	U	0.020	0.50
563-58-6	1,1-Dichloropropene	0.50	U	0.030	0.50
56-23-5	Carbon tetrachloride	0.50	U	0.21	0.50
107-06-2	1,2-Dichloroethane	0.50	U	0.090	0.50
71-43-2	Benzene	0.50	U	0.19	0.50
79-01-6	Trichloroethene	0.50	U	0.17	0.50
78-87-5	1,2-Dichloropropane	0.50	U	0.020	0.50
74-95-3	Dibromomethane	0.50	U	0.080	0.50
75-27-4	Bromodichloromethane	0.50	U	0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.020	0.50
108-10-1	4-Methyl-2-pentanone	5.0	U	0.21	5.0
108-88-3	Toluene	0.50	U	0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50	U	0.080	0.50
79-00-5	1,1,2-Trichloroethane	0.50	U	0.10	0.50
142-28-9	1,3-Dichloropropane	0.50	U	0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

VBLK1S

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5632.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 11:35

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

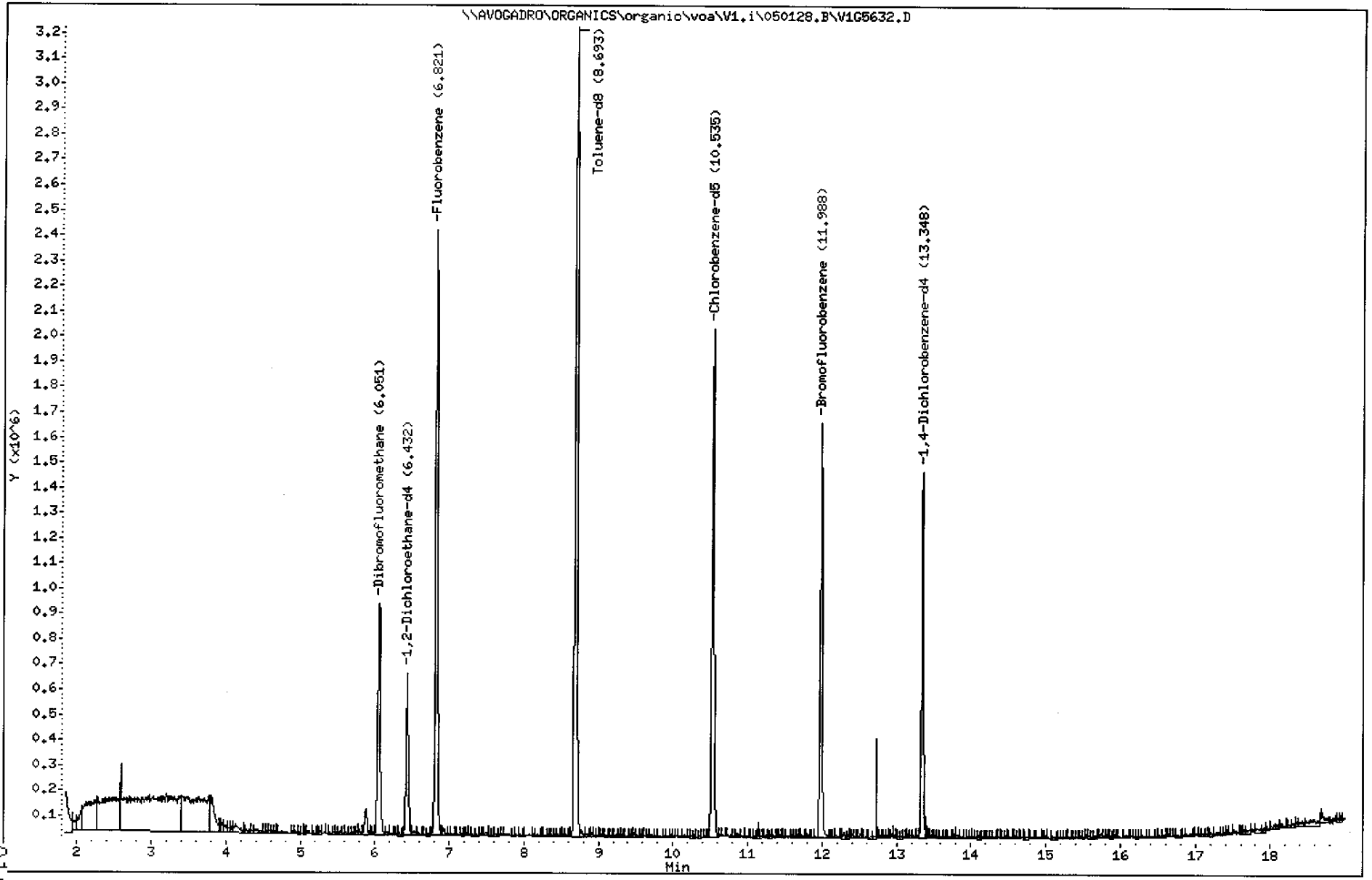
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	0.50	U	0.020	0.50
591-78-6	2-Hexanone	5.0	U	0.29	5.0
124-48-1	Dibromochloromethane	0.50	U	0.060	0.50
106-93-4	1,2-Dibromoethane	0.50	U	0.030	0.50
108-90-7	Chlorobenzene	0.50	U	0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U	0.040	0.50
100-41-4	Ethylbenzene	0.50	U	0.18	0.50
1330-20-7	m,p-Xylene	0.50	U	0.35	0.50
95-47-6	o-Xylene	0.50	U	0.030	0.50
1330-20-7	Xylene (Total)	0.50	U	0.17	0.50
100-42-5	Styrene	0.50	U	0.060	0.50
75-25-2	Bromoform	0.50	U	0.13	0.50
98-82-8	Isopropylbenzene	0.50	U	0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.13	0.50
108-86-1	Bromobenzene	0.50	U	0.060	0.50
96-18-4	1,2,3-Trichloropropane	0.50	U	0.090	0.50
103-65-1	n-Propylbenzene	0.50	U	0.050	0.50
95-49-8	2-Chlorotoluene	0.50	U	0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50	U	0.030	0.50
106-43-4	4-Chlorotoluene	0.50	U	0.050	0.50
98-06-6	tert-Butylbenzene	0.50	U	0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50	U	0.040	0.50
135-98-8	sec-Butylbenzene	0.50	U	0.040	0.50
99-87-6	4-Isopropyltoluene	0.50	U	0.030	0.50
541-73-1	1,3-Dichlorobenzene	0.50	U	0.060	0.50
106-46-7	1,4-Dichlorobenzene	0.50	U	0.070	0.50
104-51-8	n-Butylbenzene	0.50	U	0.050	0.50
95-50-1	1,2-Dichlorobenzene	0.50	U	0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.38	0.50
87-68-3	Hexachlorobutadiene	0.50	U	0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	0.50	U	0.50	0.50
91-20-3	Naphthalene	0.50	U	0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5632.D
Date : 28-JAN-2005 11:35
Client ID: VBLK1S
Sample Info: ,MB-16653,VBLK1S,16653
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: MS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5632.D
Report Date: 01-Feb-2005 13:03

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5632.D
Lab Smp Id: MB-16653 Client Smp ID: VBLK1S
Inj Date : 28-JAN-2005 11:35
Operator : MS SRC: MS Inst ID: v1.i
Smp Info : ,MB-16653,VBLK1S,16653
Misc Info : ,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 18 Dibromofluoromethane	113	6.051	6.049	(0.887)	667357	4.73154	5
$ 23 1,2-Dichloroethane-d4	102	6.424	6.422	(0.942)	92244	4.65298	5
* 26 Fluorobenzene	96	6.821	6.810	(1.000)	2387469	5.00000	
$ 33 Toluene-d8	98	8.701	8.691	(1.276)	2454815	5.19355	5
* 43 Chlorobenzene-d5	117	10.535	10.524	(1.000)	1298985	5.00000	
$ 52 Bromofluorobenzene	95	11.988	11.977	(1.138)	652079	4.76005	5
* 66 1,4-Dichlorobenzene-d4	152	13.348	13.337	(1.000)	427046	5.00000	(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

(B) 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1RLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16639

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5603.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 11:28

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	11		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	12		0.22	0.50
75-35-4	1,1-Dichloroethene	11		0.060	0.50
67-64-1	Acetone	15		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	10		0.10	0.50
75-34-3	1,1-Dichloroethane	11		0.22	0.50
78-93-3	2-Butanone	12		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	11		0.020	0.50
594-20-7	2,2-Dichloropropane	12		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.8		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	12		0.19	0.50
79-01-6	Trichloroethene	11		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	10		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	11		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.6		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	10		0.10	0.50
142-28-9	1,3-Dichloropropane	11		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
V1RLCS

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: LCS-16639
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5603.D
Level: (low/med) LOW
Date Collected: Time:
% Moisture: Decanted: (Y/N) N
Date Received: Time:
Extract Volume: 25000 (µL)
Date Extracted: 01/27/05 Time: 10:14
Dil Fac: 1.00 Analyst: msztrall
Date Analyzed: 01/27/05 Time: 11:28
Prep Batch: 16639
Analytical Run: V1_050126B
Instrument ID: V1
TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

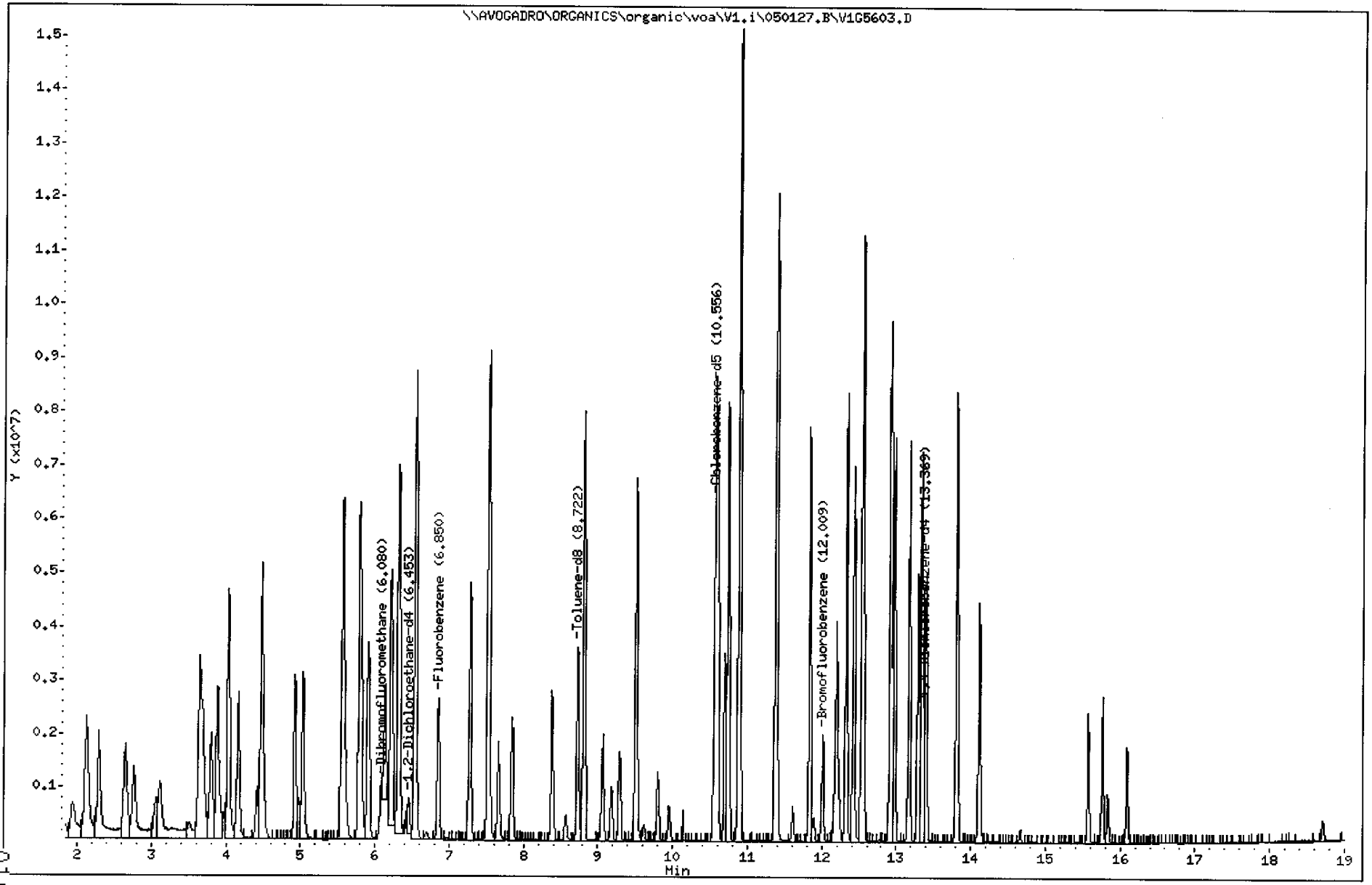
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	11		0.020	0.50
591-78-6	2-Hexanone	11		0.29	5.0
124-48-1	Dibromochloromethane	11		0.060	0.50
106-93-4	1,2-Dibromoethane	11		0.030	0.50
108-90-7	Chlorobenzene	11		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	11		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	24		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	35		0.17	0.50
100-42-5	Styrene	12		0.060	0.50
75-25-2	Bromoform	10		0.13	0.50
98-82-8	Isopropylbenzene	12		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	10		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	12		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	12		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	12		0.030	0.50
541-73-1	1,3-Dichlorobenzene	11		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	9.8		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	10		0.38	0.50
87-68-3	Hexachlorobutadiene	9.1		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.6		0.50	0.50
91-20-3	Naphthalene	9.2		0.42	0.50

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5603.D
Date : 27-JAN-2005 11:28
Client ID: V1RLCS
Sample Info: ,LCS-16639,V1RLCS,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5603.D
Report Date: 01-Feb-2005 11:45

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5603.D
Lab Smp Id: LCS-16639 Client Smp ID: V1RLCS
Inj Date : 27-JAN-2005 11:28
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,LCS-16639,V1RLCS,16639
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.939	1.949	(0.283)	1748775	11.3470	11
2 Chloromethane	50	2.133	2.128	(0.311)	3512332	10.8911	11
3 Vinyl Chloride	62	2.288	2.291	(0.334)	3111238	10.9841	11
4 Bromomethane	94	2.654	2.656	(0.387)	2047975	10.9393	11
5 Chloroethane	64	2.770	2.773	(0.404)	1724367	10.6392	11
6 Trichlorofluoromethane	101	3.112	3.122	(0.454)	2020142	11.8406	12
7 1,1-Dichloroethene	96	3.640	3.651	(0.531)	1702946	10.8117	11
121 Acetone	43	3.687	3.697	(0.538)	259356	15.1535	15
123 Carbon Disulfide	76	3.881	3.891	(0.567)	6090070	11.0401	11
9 Methylene Chloride	84	4.161	4.171	(0.607)	1605992	9.98808	10
10 trans-1,2-Dichloroethene	96	4.472	4.482	(0.653)	1915321	11.0720	11
11 Methyl tert-butyl ether	73	4.495	4.497	(0.656)	1962233	10.4772	10
12 1,1-Dichloroethane	63	4.923	4.933	(0.719)	3670738	10.8440	11
14 2-Butanone	43	5.567	5.578	(0.813)	316709	11.7300	12
13 cis-1,2-Dichloroethene	96	5.560	5.570	(0.812)	1746463	10.7732	11
15 2,2-Dichloropropane	77	5.567	5.585	(0.813)	2887060	11.5257	12

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5603.D
Report Date: 01-Feb-2005 11:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	16 Bromochloromethane	128	5.816	5.826	(0.849)	608367	10.9869	11
	17 Chloroform	83	5.909	5.920	(0.863)	3310879	9.84425	10
$	18 Dibromofluoromethane	113	6.080	6.090	(0.888)	774479	5.06070	5
	20 1,1,1-Trichloroethane	97	6.127	6.145	(0.894)	2503382	10.9735	11
	21 1,1-Dichloropropene	110	6.313	6.324	(0.922)	845205	11.3375	11
	22 Carbon Tetrachloride	117	6.321	6.339	(0.923)	2133025	11.0519	11
$	23 1,2-Dichloroethane-d4	102	6.453	6.463	(0.942)	109634	5.09677	5
	24 1,2-Dichloroethane	62	6.539	6.549	(0.955)	1324156	10.6562	11
	25 Benzene	78	6.539	6.549	(0.955)	7431005	11.6127	12
*	26 Fluorobenzene	96	6.849	6.860	(1.000)	2590482	5.00000	
	27 Trichloroethene	130	7.277	7.287	(1.062)	1860890	10.9039	11
	28 1,2-Dichloropropane	63	7.526	7.536	(1.099)	1602604	10.5357	10
	29 Dibromomethane	93	7.658	7.668	(1.118)	520552	10.3654	10
	30 Bromodichloromethane	83	7.844	7.846	(1.145)	1725982	10.8600	11
	31 cis-1,3-Dichloropropene	75	8.380	8.390	(1.223)	1885301	10.8946	11
	32 4-Methyl-2-pentanone	43	8.567	8.569	(1.251)	460446	9.63673	10
$	33 Toluene-d8	98	8.722	8.732	(1.273)	2783063	5.42658	5
	34 Toluene	91	8.808	8.818	(1.286)	6639928	11.7653	12
	35 trans-1,3-Dichloropropene	75	9.056	9.066	(1.322)	1255245	11.0939	11
	36 1,1,2-Trichloroethane	97	9.289	9.300	(1.356)	577822	10.3469	10
	37 1,3-Dichloropropane	76	9.507	9.517	(0.901)	1221056	10.5751	10
	38 Tetrachloroethene	164	9.507	9.517	(0.901)	1359665	10.5352	10
	122 2-Hexanone	43	9.616	9.618	(1.404)	275782	10.6736	11
	40 Dibromochloromethane	129	9.802	9.805	(0.929)	825167	10.6814	11
	41 1,2-Dibromoethane	107	9.950	9.960	(0.943)	571856	10.6394	11
*	43 Chlorobenzene-d5	117	10.556	10.566	(1.000)	1457345	5.00000	
	44 Chlorobenzene	112	10.595	10.605	(1.004)	3593313	10.9176	11
	45 1,1,1,2-Tetrachloroethane	131	10.696	10.706	(1.013)	1175484	10.6655	11
	46 Ethylbenzene	106	10.742	10.745	(1.018)	2082866	11.4736	11
	47 m,p-Xylene	106	10.890	10.892	(1.032)	5193655	24.1179	24
	48 o-Xylene	106	11.380	11.382	(1.078)	2298198	11.2791	11
M	60 Xylene (Total)	106				7491853	35.3970	35
	49 Styrene	104	11.395	11.397	(1.079)	3273149	11.6038	12
	50 Bromoform	173	11.613	11.615	(0.869)	343113	9.96434	10
	51 Isopropylbenzene	105	11.830	11.833	(0.885)	5711410	11.8243	12
$	52 Bromofluorobenzene	95	12.009	12.011	(1.138)	765889	4.98332	5
	53 1,1,2,2-Tetrachloroethane	83	12.172	12.175	(0.910)	631374	10.4325	10
	54 Bromobenzene	156	12.195	12.198	(0.912)	1133735	10.4777	10
	55 1,2,3-Trichloropropane	75	12.227	12.229	(0.915)	715693	10.6119	11
	56 n-Propylbenzene	120	12.328	12.330	(0.922)	1499752	10.8165	11
	57 2-Chlorotoluene	126	12.429	12.431	(0.930)	1449347	10.5525	10
	58 1,3,5-Trimethylbenzene	105	12.537	12.540	(0.938)	4786565	11.6093	12
	59 4-Chlorotoluene	126	12.553	12.555	(0.939)	1385756	10.9278	11
	61 tert-Butylbenzene	119	12.918	12.920	(0.966)	4715565	11.4011	11
	62 1,2,4-Trimethylbenzene	105	12.972	12.975	(0.970)	4416047	11.8103	12(R)
	63 sec-Butylbenzene	105	13.175	13.177	(0.985)	5776720	11.9796	12(R)
	65 4-Isopropyltoluene	119	13.338	13.340	(0.998)	4304928	11.7044	12

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5603.D
Report Date: 01-Feb-2005 11:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	13.299	13.301	(0.995)	2348760	10.5298	10
* 66 1,4-Dichlorobenzene-d4	152	13.369	13.371	(1.000)	565855	5.00000	
67 1,4-Dichlorobenzene	146	13.392	13.394	(1.002)	2166304	10.3547	10
68 n-Butylbenzene	91	13.804	13.806	(1.033)	3475428	11.4327	11
69 1,2-Dichlorobenzene	146	13.819	13.822	(1.034)	1844651	10.7253	11
70 1,2-Dibromo-3-chloropropane	75	14.666	14.669	(1.097)	63621	9.82628	10
71 1,2,4-Trichlorobenzene	180	15.576	15.578	(1.165)	735999	10.2827	10
72 Hexachlorobutadiene	225	15.762	15.764	(1.179)	543097	9.09768	9(Q)
73 Naphthalene	128	15.832	15.834	(1.184)	719239	9.18144	9
74 1,2,3-Trichlorobenzene	180	16.096	16.091	(1.204)	557267	9.57360	10

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID: V1SLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5633.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 12:07

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	9.7		0.44	0.50
74-87-3	Chloromethane	10		0.29	0.50
75-01-4	Vinyl chloride	9.7		0.21	0.50
74-83-9	Bromomethane	10		0.21	0.50
75-00-3	Chloroethane	9.9		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	11		0.56	5.0
75-15-0	Carbon disulfide	10		0.030	0.50
75-09-2	Methylene chloride	9.2		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	10		0.020	0.50
1634-04-4	Methyl tert-butyl ether	10		0.10	0.50
75-34-3	1,1-Dichloroethane	9.9		0.22	0.50
78-93-3	2-Butanone	10		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	10		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	10		0.16	0.50
67-66-3	Chloroform	8.8		0.19	0.50
71-55-6	1,1,1-Trichloroethane	10		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	10		0.21	0.50
107-06-2	1,2-Dichloroethane	9.5		0.090	0.50
71-43-2	Benzene	11		0.19	0.50
79-01-6	Trichloroethene	10		0.17	0.50
78-87-5	1,2-Dichloropropane	9.9		0.020	0.50
74-95-3	Dibromomethane	10		0.080	0.50
75-27-4	Bromodichloromethane	9.9		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	10		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.8		0.21	5.0
108-88-3	Toluene	11		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	10		0.080	0.50
79-00-5	1,1,2-Trichloroethane	10		0.10	0.50
142-28-9	1,3-Dichloropropane	10		0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1SLCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5633.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 12:07

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

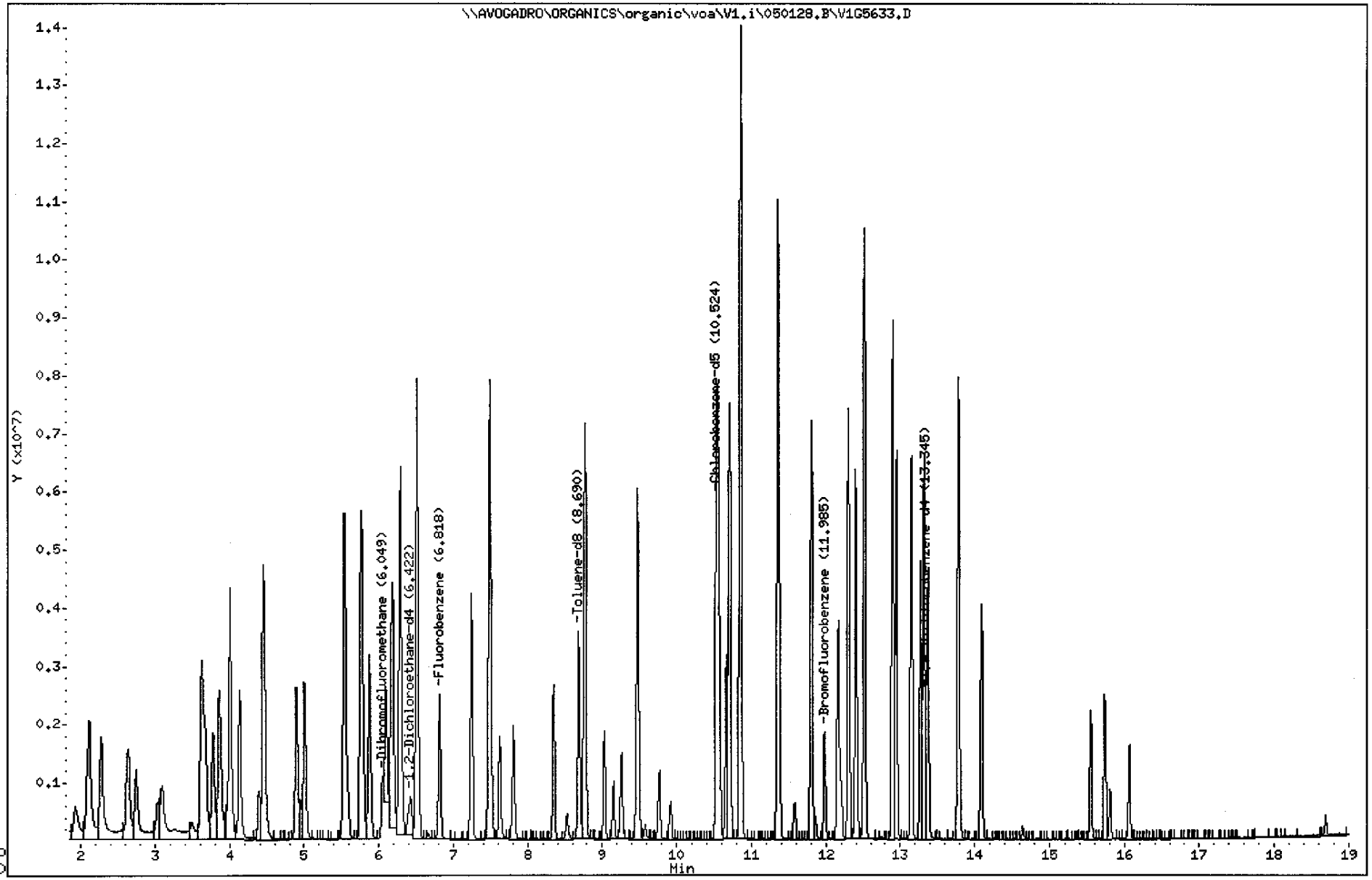
CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	9.9		0.020	0.50
591-78-6	2-Hexanone	10		0.29	5.0
124-48-1	Dibromochloromethane	10		0.060	0.50
106-93-4	1,2-Dibromoethane	10		0.030	0.50
108-90-7	Chlorobenzene	10		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	23		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	34		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	10		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	10		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	9.9		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	10		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	10		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	10		0.060	0.50
106-46-7	1,4-Dichlorobenzene	9.8		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	10		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	10		0.38	0.50
87-68-3	Hexachlorobutadiene	9.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.5		0.50	0.50
91-20-3	Naphthalene	9.4		0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5633.D
Date : 28-JAN-2005 12:07
Client ID: V1SLCS
Sample Info: ,LCS-16653,V1SLCS,16653
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: MS
Column diameter: 0.25



0205

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5633.D
Report Date: 01-Feb-2005 12:47

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5633.D
Lab Smp Id: LCS-16653 Client Smp ID: V1SLCS
Inj Date : 28-JAN-2005 12:07
Operator : MS SRC: MS Inst ID: v1.i
Smp Info : ,LCS-16653,V1SLCS,16653
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.923	1.915	(0.282)	1447161	9.70028	10
2 Chloromethane	50	2.117	2.109	(0.310)	3120214	9.99497	10
3 Vinyl Chloride	62	2.272	2.265	(0.333)	2671709	9.74405	10
4 Bromomethane	94	2.630	2.622	(0.386)	1891837	10.4392	10
5 Chloroethane	64	2.746	2.739	(0.403)	1545687	9.85190	10
6 Trichlorofluoromethane	101	3.088	3.080	(0.453)	1791743	10.8490	11
7 1,1-Dichloroethene	96	3.616	3.609	(0.530)	1520077	9.96962	10
121 Acetone	43	3.663	3.655	(0.537)	174901	10.5567	10
123 Carbon Disulfide	76	3.857	3.850	(0.566)	5522254	10.3416	10
9 Methylene Chloride	84	4.137	4.129	(0.607)	1425367	9.15768	9
10 trans-1,2-Dichloroethene	96	4.448	4.440	(0.652)	1739861	10.3901	10
11 Methyl tert-butyl ether	73	4.463	4.456	(0.655)	1849640	10.2023	10
12 1,1-Dichloroethane	63	4.899	4.891	(0.718)	3234407	9.87076	10
14 2-Butanone	43	5.536	5.536	(0.812)	268463	10.2717	10
13 cis-1,2-Dichloroethene	96	5.528	5.520	(0.811)	1568473	9.99499	10
15 2,2-Dichloropropane	77	5.536	5.536	(0.812)	2568975	10.5947	10

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5633.D
Report Date: 01-Feb-2005 12:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	16 Bromochloromethane	128	5.784	5.785	(0.848)	549410	10.2501	10
	17 Chloroform	83	5.878	5.870	(0.862)	2864698	8.79909	9(R)
$	18 Dibromofluoromethane	113	6.049	6.049	(0.887)	752688	5.08085	5
	20 1,1,1-Trichloroethane	97	6.095	6.095	(0.894)	2244492	10.1638	10
	21 1,1-Dichloropropene	110	6.282	6.274	(0.921)	767566	10.6363	11
	22 Carbon Tetrachloride	117	6.297	6.290	(0.924)	1901084	10.1756	10
$	23 1,2-Dichloroethane-d4	102	6.429	6.422	(0.943)	111189	5.33988	5
	24 1,2-Dichloroethane	62	6.507	6.507	(0.954)	1139659	9.47451	9
	25 Benzene	78	6.507	6.499	(0.954)	6721595	10.8512	11
*	26 Fluorobenzene	96	6.818	6.810	(1.000)	2507614	5.00000	
	27 Trichloroethene	130	7.245	7.237	(1.063)	1658690	10.0403	10
	28 1,2-Dichloropropane	63	7.486	7.486	(1.098)	1451421	9.85711	10
	29 Dibromomethane	93	7.626	7.626	(1.119)	491354	10.1073	10
	30 Bromodichloromethane	83	7.812	7.805	(1.146)	1525636	9.91663	10
	31 cis-1,3-Dichloropropene	75	8.349	8.349	(1.225)	1734028	10.3516	10
	32 4-Methyl-2-pentanone	43	8.527	8.527	(1.251)	453789	9.81126	10
$	33 Toluene-d8	98	8.690	8.691	(1.275)	2700740	5.44009	5
	34 Toluene	91	8.776	8.768	(1.287)	6107236	11.1790	11
	35 trans-1,3-Dichloropropene	75	9.025	9.025	(1.324)	1135035	10.3630	10
	36 1,1,2-Trichloroethane	97	9.258	9.250	(1.358)	555340	10.2729	10
	37 1,3-Dichloropropane	76	9.475	9.468	(0.900)	1105968	9.96871	10
	38 Tetrachloroethene	164	9.475	9.468	(0.900)	1226676	9.89214	10
	122 2-Hexanone	43	9.576	9.576	(1.405)	253237	10.1249	10
	40 Dibromochloromethane	129	9.771	9.763	(0.928)	753231	10.1476	10
	41 1,2-Dibromoethane	107	9.918	9.918	(0.942)	522258	10.1126	10
*	43 Chlorobenzene-d5	117	10.524	10.524	(1.000)	1400274	5.00000	
	44 Chlorobenzene	112	10.563	10.563	(1.004)	3256425	10.2973	10
	45 1,1,1,2-Tetrachloroethane	131	10.664	10.664	(1.013)	1100506	10.3922	10
	46 Ethylbenzene	106	10.711	10.703	(1.018)	1900422	10.8952	11
	47 m,p-Xylene	106	10.858	10.851	(1.032)	4702259	22.7260	23
	48 o-Xylene	106	11.348	11.348	(1.078)	2113407	10.7949	11
M	60 Xylene (Total)	106				6815666	33.5209	34
	49 Styrene	104	11.363	11.364	(1.080)	3008206	11.0992	11
	50 Bromoform	173	11.581	11.573	(0.868)	338842	10.2846	10
	51 Isopropylbenzene	105	11.806	11.806	(0.885)	5300821	11.4698	11
$	52 Bromofluorobenzene	95	11.985	11.977	(1.139)	752619	5.09656	5
	53 1,1,2,2-Tetrachloroethane	83	12.140	12.141	(0.910)	584020	10.0858	10
	54 Bromobenzene	156	12.164	12.164	(0.911)	1042365	10.0682	10
	55 1,2,3-Trichloropropane	75	12.195	12.195	(0.914)	638857	9.90033	10
	56 n-Propylbenzene	120	12.304	12.296	(0.922)	1414561	10.6628	11
	57 2-Chlorotoluene	126	12.397	12.397	(0.929)	1336271	10.1685	10
	58 1,3,5-Trimethylbenzene	105	12.506	12.506	(0.937)	4381218	11.1060	11
	59 4-Chlorotoluene	126	12.529	12.521	(0.939)	1250604	10.3074	10
	61 tert-Butylbenzene	119	12.894	12.894	(0.966)	4402283	11.1243	11
	62 1,2,4-Trimethylbenzene	105	12.949	12.949	(0.970)	4038508	11.2883	11
	63 sec-Butylbenzene	105	13.151	13.143	(0.985)	5325166	11.5418	12
	65 4-Isopropyltoluene	119	13.314	13.314	(0.998)	4003007	11.3750	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5633.D
Report Date: 01-Feb-2005 12:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	13.267	13.267	(0.994)	2162883	10.1343	10
* 66 1,4-Dichlorobenzene-d4	152	13.345	13.337	(1.000)	541408	5.00000	
67 1,4-Dichlorobenzene	146	13.368	13.368	(1.002)	1964891	9.81608	10
68 n-Butylbenzene	91	13.780	13.780	(1.033)	3258899	11.2045	11
69 1,2-Dichlorobenzene	146	13.788	13.788	(1.033)	1670676	10.1524	10
70 1,2-Dibromo-3-chloropropane	75	14.642	14.643	(1.097)	62054	10.0170	10
71 1,2,4-Trichlorobenzene	180	15.552	15.552	(1.165)	693129	10.1210	10
72 Hexachlorobutadiene	225	15.746	15.746	(1.180)	513309	8.98695	9
73 Naphthalene	128	15.808	15.808	(1.185)	704870	9.40432	9
74 1,2,3-Trichlorobenzene	180	16.072	16.072	(1.204)	530644	9.52787	10

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

V1SLCSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCSD-16653

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5634.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 25000 (µL) | Date Extracted: 01/28/05 | Time: 10:50

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/28/05 | Time: 12:39

Prep Batch: 16653 | Analytical Run: V1_050128A

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	9.5		0.44	0.50
74-87-3	Chloromethane	9.7		0.29	0.50
75-01-4	Vinyl chloride	9.7		0.21	0.50
74-83-9	Bromomethane	10		0.21	0.50
75-00-3	Chloroethane	9.8		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	9.9		0.060	0.50
67-64-1	Acetone	9.8		0.56	5.0
75-15-0	Carbon disulfide	9.9		0.030	0.50
75-09-2	Methylene chloride	8.8		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	10		0.020	0.50
1634-04-4	Methyl tert-butyl ether	9.2		0.10	0.50
75-34-3	1,1-Dichloroethane	9.6		0.22	0.50
78-93-3	2-Butanone	9.4		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	9.7		0.020	0.50
594-20-7	2,2-Dichloropropane	10		0.23	0.50
74-97-5	Bromochloromethane	9.1		0.16	0.50
67-66-3	Chloroform	8.4		0.19	0.50
71-55-6	1,1,1-Trichloroethane	10		0.020	0.50
563-58-6	1,1-Dichloropropene	10		0.030	0.50
56-23-5	Carbon tetrachloride	10		0.21	0.50
107-06-2	1,2-Dichloroethane	9.0		0.090	0.50
71-43-2	Benzene	10		0.19	0.50
79-01-6	Trichloroethene	9.8		0.17	0.50
78-87-5	1,2-Dichloropropane	9.2		0.020	0.50
74-95-3	Dibromomethane	9.3		0.080	0.50
75-27-4	Bromodichloromethane	9.3		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	9.7		0.020	0.50
108-10-1	4-Methyl-2-pentanone	8.6		0.21	5.0
108-88-3	Toluene	11		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	9.7		0.080	0.50
79-00-5	1,1,2-Trichloroethane	9.5		0.10	0.50
142-28-9	1,3-Dichloropropane	9.5		0.060	0.50

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
V1SLCSD

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: LCSD-16653
Sample wt/vol: 25.0 (G/ML) ML
Lab File ID: V1G5634.D
Level: (low/med) LOW
Date Collected: Time:
% Moisture: Decanted: (Y/N) N
Date Received: Time:
Extract Volume: 25000 (µL)
Date Extracted: 01/28/05 Time: 10:50
Dil Fac: 1.00 Analyst: msztrall
Date Analyzed: 01/28/05 Time: 12:39
Prep Batch: 16653
Analytical Run: V1_050128A
Instrument ID: V1
TestCode: SW8260B_25_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

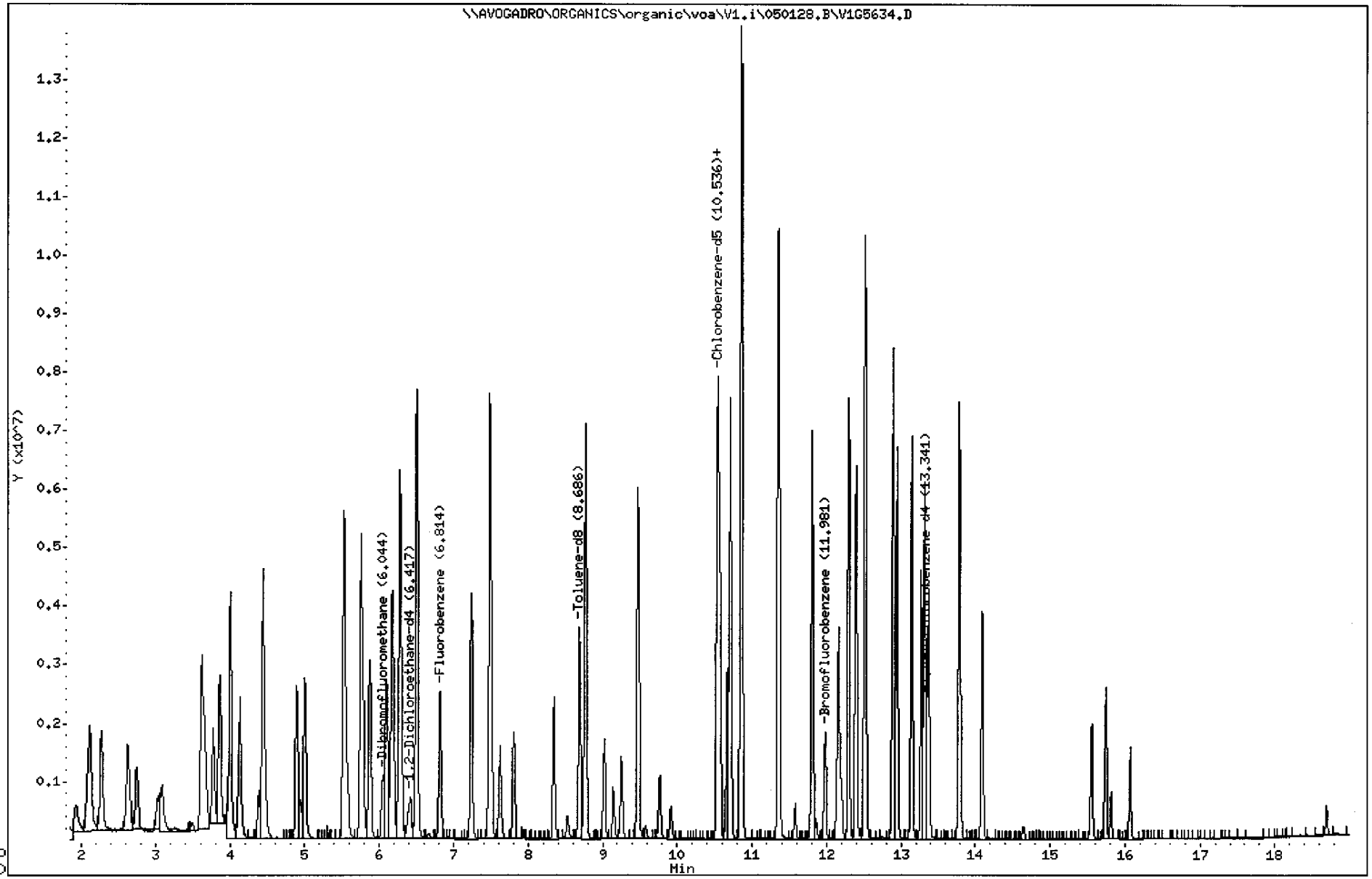
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	10		0.020	0.50
591-78-6	2-Hexanone	8.2		0.29	5.0
124-48-1	Dibromochloromethane	9.5		0.060	0.50
106-93-4	1,2-Dibromoethane	9.2		0.030	0.50
108-90-7	Chlorobenzene	9.9		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	9.6		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	22		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	33		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	9.3		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	9.3		0.13	0.50
108-86-1	Bromobenzene	9.3		0.060	0.50
96-18-4	1,2,3-Trichloropropane	9.1		0.090	0.50
103-65-1	n-Propylbenzene	10		0.050	0.50
95-49-8	2-Chlorotoluene	10		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	9.9		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	9.9		0.060	0.50
106-46-7	1,4-Dichlorobenzene	9.6		0.070	0.50
104-51-8	n-Butylbenzene	11		0.050	0.50
95-50-1	1,2-Dichlorobenzene	9.7		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	8.3		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.5		0.38	0.50
87-68-3	Hexachlorobutadiene	9.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	8.9		0.50	0.50
91-20-3	Naphthalene	8.5		0.42	0.50

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5634.D
Date : 28-JAN-2005 12:39
Client ID: V1SLCSD
Sample Info: ,LCSD-16653,V1SLCSD,16653
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: MS
Column diameter: 0.25



0211

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5634.D
Report Date: 01-Feb-2005 12:47

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5634.D
Lab Smp Id: LCSD-16653 Client Smp ID: V1SLCSD
Inj Date : 28-JAN-2005 12:39
Operator : MS SRC: MS Inst ID: v1.i
Smp Info : ,LCSD-16653,V1SLCSD,16653
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\v1AFCEE.m
Meth Date : 01-Feb-2005 12:46 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.918	1.915	(0.282)	1442351	9.50789	10
2 Chloromethane	50	2.113	2.109	(0.310)	3085699	9.72068	10
3 Vinyl Chloride	62	2.268	2.265	(0.333)	2711835	9.72656	10
4 Bromomethane	94	2.626	2.622	(0.385)	1841314	9.99210	10
5 Chloroethane	64	2.742	2.739	(0.402)	1564875	9.80898	10
6 Trichlorofluoromethane	101	3.084	3.080	(0.453)	1781799	10.6100	11
7 1,1-Dichloroethene	96	3.612	3.609	(0.530)	1534607	9.89820	10
121 Acetone	43	3.659	3.655	(0.537)	164672	9.77468	10
123 Carbon Disulfide	76	3.853	3.850	(0.566)	5398640	9.94266	10
9 Methylene Chloride	84	4.133	4.129	(0.607)	1386577	8.76089	9
10 trans-1,2-Dichloroethene	96	4.444	4.440	(0.652)	1721309	10.1090	10
11 Methyl tert-butyl ether	73	4.459	4.456	(0.654)	1703394	9.24003	9
12 1,1-Dichloroethane	63	4.887	4.891	(0.717)	3189905	9.57369	10
14 2-Butanone	43	5.532	5.536	(0.812)	249941	9.40464	9
13 cis-1,2-Dichloroethene	96	5.524	5.520	(0.811)	1555215	9.74634	10
15 2,2-Dichloropropane	77	5.532	5.536	(0.812)	2537336	10.2909	10

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5634.D
Report Date: 01-Feb-2005 12:47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	16 Bromochloromethane	128	5.780	5.785	(0.848)	498687	9.14964	9
	17 Chloroform	83	5.873	5.870	(0.862)	2774564	8.38107	8(R)
$	18 Dibromofluoromethane	113	6.044	6.049	(0.887)	732248	4.86099	5
	20 1,1,1-Trichloroethane	97	6.091	6.095	(0.894)	2274795	10.1304	10
	21 1,1-Dichloropropene	110	6.277	6.274	(0.921)	742450	10.1179	10
	22 Carbon Tetrachloride	117	6.285	6.290	(0.922)	1890543	9.95159	10
$	23 1,2-Dichloroethane-d4	102	6.417	6.422	(0.942)	100036	4.72468	5
	24 1,2-Dichloroethane	62	6.503	6.507	(0.954)	1094875	8.95143	9
	25 Benzene	78	6.503	6.499	(0.954)	6586506	10.4570	10
*	26 Fluorobenzene	96	6.814	6.810	(1.000)	2549851	5.00000	
	27 Trichloroethene	130	7.241	7.237	(1.063)	1650354	9.82438	10
	28 1,2-Dichloropropane	63	7.482	7.486	(1.098)	1384930	9.24975	9
	29 Dibromomethane	93	7.622	7.626	(1.119)	459240	9.29021	9
	30 Bromodichloromethane	83	7.808	7.805	(1.146)	1451063	9.27567	9
	31 cis-1,3-Dichloropropene	75	8.344	8.349	(1.225)	1644080	9.65204	10
	32 4-Methyl-2-pentanone	43	8.531	8.527	(1.252)	404505	8.60084	9
$	33 Toluene-d8	98	8.686	8.691	(1.275)	2707200	5.36277	5
	34 Toluene	91	8.772	8.768	(1.287)	5975807	10.7572	11
	35 trans-1,3-Dichloropropene	75	9.021	9.025	(1.324)	1081895	9.71416	10
	36 1,1,2-Trichloroethane	97	9.254	9.250	(1.358)	523726	9.52766	10
	37 1,3-Dichloropropane	76	9.471	9.468	(0.900)	1055853	9.48909	9
	38 Tetrachloroethene	164	9.471	9.468	(0.900)	1272513	10.2317	10
	122 2-Hexanone	43	9.580	9.576	(1.406)	209133	8.22306	8
	40 Dibromochloromethane	129	9.766	9.763	(0.928)	707984	9.51006	10
	41 1,2-Dibromoethane	107	9.914	9.918	(0.942)	476991	9.20903	9
*	43 Chlorobenzene-d5	117	10.528	10.524	(1.000)	1404392	5.00000	
	44 Chlorobenzene	112	10.567	10.563	(1.004)	3136724	9.88971	10
	45 1,1,1,2-Tetrachloroethane	131	10.668	10.664	(1.013)	1023898	9.64040	10
	46 Ethylbenzene	106	10.707	10.703	(1.017)	1879335	10.7427	11
	47 m,p-Xylene	106	10.854	10.851	(1.031)	4634580	22.3332	22
	48 o-Xylene	106	11.352	11.348	(1.078)	2063413	10.5086	10
M	60 Xylene (Total)	106				6697993	32.8419	33
	49 Styrene	104	11.359	11.364	(1.079)	2865567	10.5419	10
	50 Bromoform	173	11.577	11.573	(0.868)	303055	9.29686	9
	51 Isopropylbenzene	105	11.802	11.806	(0.885)	5258202	11.4994	11
$	52 Bromofluorobenzene	95	11.981	11.977	(1.138)	717461	4.84424	5
	53 1,1,2,2-Tetrachloroethane	83	12.144	12.141	(0.910)	532239	9.28993	9
	54 Bromobenzene	156	12.167	12.164	(0.912)	956631	9.33903	9
	55 1,2,3-Trichloropropane	75	12.198	12.195	(0.914)	580895	9.09844	9
	56 n-Propylbenzene	120	12.299	12.296	(0.922)	1358660	10.3510	10
	57 2-Chlorotoluene	126	12.401	12.397	(0.930)	1312580	10.0951	10
	58 1,3,5-Trimethylbenzene	105	12.509	12.506	(0.938)	4367503	11.1897	11
	59 4-Chlorotoluene	126	12.525	12.521	(0.939)	1188843	9.90321	10
	61 tert-Butylbenzene	119	12.890	12.894	(0.966)	4213315	10.7607	11
	62 1,2,4-Trimethylbenzene	105	12.944	12.949	(0.970)	3945754	11.1471	11
	63 sec-Butylbenzene	105	13.146	13.143	(0.985)	5281378	11.5694	12
	65 4-Isopropyltoluene	119	13.317	13.314	(0.998)	3872926	11.1232	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050128.B\V1G5634.D
Report Date: 01-Feb-2005 12:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	13.271	13.267	(0.995)	2096632	9.92905	10
* 66 1,4-Dichlorobenzene-d4	152	13.341	13.337	(1.000)	535675	5.00000	
67 1,4-Dichlorobenzene	146	13.372	13.368	(1.002)	1896176	9.57418	10
68 n-Butylbenzene	91	13.776	13.780	(1.033)	3146418	10.9336	11
69 1,2-Dichlorobenzene	146	13.791	13.788	(1.034)	1577647	9.68970	10
70 1,2-Dibromo-3-chloropropane	75	14.638	14.643	(1.097)	51084	8.33446	8
71 1,2,4-Trichlorobenzene	180	15.555	15.552	(1.166)	643838	9.50191	10
72 Hexachlorobutadiene	225	15.742	15.746	(1.180)	508248	8.99358	9
73 Naphthalene	128	15.812	15.808	(1.185)	632037	8.52283	8
74 1,2,3-Trichlorobenzene	180	16.068	16.072	(1.204)	491246	8.91486	9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMS

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5611.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 16:49

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	10		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	9.8		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	11		0.10	0.50
75-34-3	1,1-Dichloroethane	10		0.22	0.50
78-93-3	2-Butanone	11		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	10		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.1		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	10		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	11		0.19	0.50
79-01-6	Trichloroethene	10		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	11		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	10		0.020	0.50
108-10-1	4-Methyl-2-pentanone	9.2		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	11		0.10	0.50
142-28-9	1,3-Dichloropropane	10		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMS

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5611.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 16:49

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CONCENTRATION UNITS: UG/L

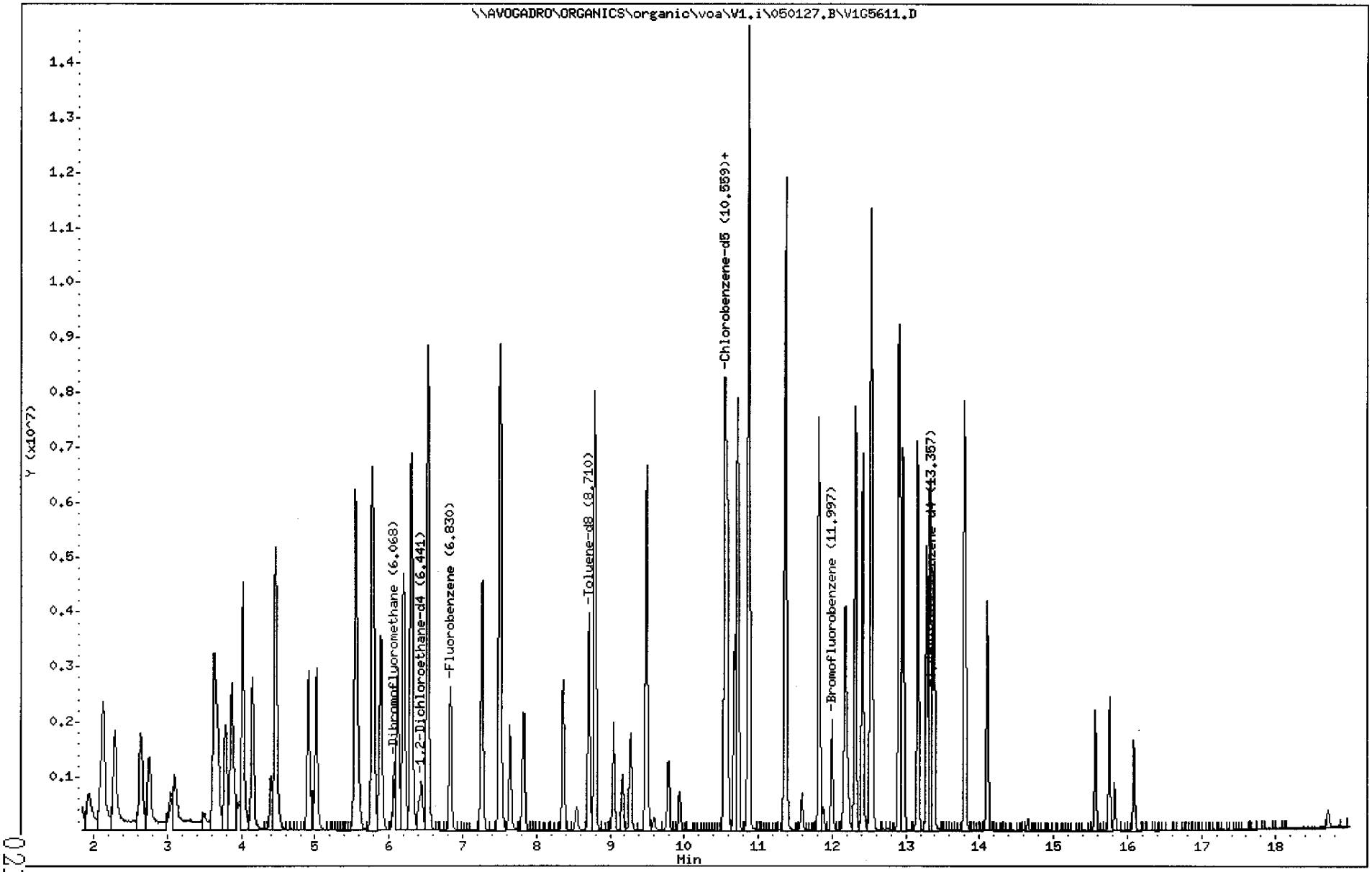
CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	9.8		0.020	0.50
591-78-6	2-Hexanone	9.0		0.29	5.0
124-48-1	Dibromochloromethane	10		0.060	0.50
106-93-4	1,2-Dibromoethane	10		0.030	0.50
108-90-7	Chlorobenzene	10		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	10		0.18	0.50
1330-20-7	m,p-Xylene	22		0.35	0.50
95-47-6	o-Xylene	10		0.030	0.50
1330-20-7	Xylene (Total)	32		0.17	0.50
100-42-5	Styrene	10		0.060	0.50
75-25-2	Bromoform	11		0.13	0.50
98-82-8	Isopropylbenzene	11		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	11		0.13	0.50
108-86-1	Bromobenzene	10		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	10		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	11		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	11		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	11		0.040	0.50
135-98-8	sec-Butylbenzene	11		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	10		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	10		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.2		0.38	0.50
87-68-3	Hexachlorobutadiene	8.0		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	8.7		0.50	0.50
91-20-3	Naphthalene	8.6		0.42	0.50

FORM I VOA

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5611.D
Date : 27-JAN-2005 16:49
Client ID: CEF-CS2-01MS
Sample Info: ,D0058-06AMS,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



0217

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5611.D
Report Date: 01-Feb-2005 11:46

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5611.D
Lab Smp Id: D0058-06AMS Client Smp ID: CEF-CS2-01MS
Inj Date : 27-JAN-2005 16:49
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-06AMS,,16639
Misc Info : ,3,,MS
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.934	1.949	(0.283)	1724879	10.9768	11
2 Chloromethane	50	2.128	2.128	(0.311)	3638162	11.0645	11
3 Vinyl Chloride	62	2.284	2.291	(0.334)	2975102	10.3016	10
4 Bromomethane	94	2.641	2.656	(0.386)	2019347	10.5790	10
5 Chloroethane	64	2.758	2.773	(0.403)	1743883	10.5528	10
6 Trichlorofluoromethane	101	3.108	3.122	(0.455)	1854703	10.6620	11
7 1,1-Dichloroethene	96	3.628	3.651	(0.531)	1611494	10.0344	10
121 Acetone	43	3.667	3.697	(0.536)	170155	9.75064	10
123 Carbon Disulfide	76	3.869	3.891	(0.566)	5998962	10.6659	11
9 Methylene Chloride	84	4.149	4.171	(0.607)	1635691	9.97725	10
10 trans-1,2-Dichloroethene	96	4.460	4.482	(0.652)	1874911	10.6301	11
11 Methyl tert-butyl ether	73	4.483	4.497	(0.656)	2031852	10.6403	11
12 1,1-Dichloroethane	63	4.910	4.933	(0.718)	3589174	10.3992	10
14 2-Butanone	43	5.555	5.578	(0.812)	293136	10.6483	11
13 cis-1,2-Dichloroethene	96	5.547	5.570	(0.811)	1724269	10.4319	10
15 2,2-Dichloropropane	77	5.555	5.585	(0.812)	2691370	10.5379	10

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5611.D
Report Date: 01-Feb-2005 11:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	16 Bromochloromethane	128	5.804	5.826	(0.849)	614974	10.8928	11
	17 Chloroform	83	5.889	5.920	(0.861)	3129199	9.12522	9
$	18 Dibromofluoromethane	113	6.068	6.090	(0.887)	879844	5.63869	6
	20 1,1,1-Trichloroethane	97	6.115	6.145	(0.894)	2465389	10.5992	10
	21 1,1-Dichloropropene	110	6.293	6.324	(0.920)	797314	10.4895	10
	22 Carbon Tetrachloride	117	6.309	6.339	(0.923)	2099317	10.6681	11
$	23 1,2-Dichloroethane-d4	102	6.441	6.463	(0.942)	126288	5.75815	6
	24 1,2-Dichloroethane	62	6.527	6.549	(0.955)	1365815	10.7802	11
	25 Benzene	78	6.527	6.549	(0.955)	7450074	11.4187	11
*	26 Fluorobenzene	96	6.837	6.860	(1.000)	2641250	5.00000	
	27 Trichloroethene	130	7.265	7.287	(1.063)	1792183	10.2995	10
	28 1,2-Dichloropropane	63	7.506	7.536	(1.098)	1662837	10.7215	11
	29 Dibromomethane	93	7.645	7.668	(1.118)	568547	11.1034	11
	30 Bromodichloromethane	83	7.824	7.846	(1.144)	1723867	10.6382	11
	31 cis-1,3-Dichloropropene	75	8.368	8.390	(1.224)	1816057	10.2927	10
	32 4-Methyl-2-pentanone	43	8.547	8.569	(1.250)	446632	9.16794	9
$	33 Toluene-d8	98	8.710	8.732	(1.274)	2987810	5.71383	6
	34 Toluene	91	8.795	8.818	(1.286)	6638804	11.5372	12
	35 trans-1,3-Dichloropropene	75	9.044	9.066	(1.323)	1230839	10.6691	11
	36 1,1,2-Trichloroethane	97	9.277	9.300	(1.357)	616050	10.8194	11
	37 1,3-Dichloropropane	76	9.495	9.517	(0.900)	1252457	10.2445	10
	38 Tetrachloroethene	164	9.495	9.517	(0.900)	1332334	9.75001	10
	122 2-Hexanone	43	9.596	9.618	(1.403)	236225	8.96689	9
	40 Dibromochloromethane	129	9.790	9.805	(0.928)	855281	10.4562	10
	41 1,2-Dibromoethane	107	9.938	9.960	(0.942)	580661	10.2031	10
*	43 Chlorobenzene-d5	117	10.551	10.566	(1.000)	1543055	5.00000	
	44 Chlorobenzene	112	10.583	10.605	(1.003)	3585762	10.2895	10
	45 1,1,1,2-Tetrachloroethane	131	10.684	10.706	(1.013)	1182549	10.1336	10
	46 Ethylbenzene	106	10.730	10.745	(1.017)	1992118	10.3641	10
	47 m,p-Xylene	106	10.878	10.892	(1.031)	4969799	21.7965	22
	48 o-Xylene	106	11.375	11.382	(1.078)	2149837	9.96488	10
M	60 Xylene (Total)	106				7119636	31.7614	32
	49 Styrene	104	11.383	11.397	(1.079)	3096491	10.3677	10
	50 Bromoform	173	11.600	11.615	(0.869)	364249	10.6295	11
	51 Isopropylbenzene	105	11.826	11.833	(0.885)	5414440	11.2639	11
$	52 Bromofluorobenzene	95	11.997	12.011	(1.137)	816384	5.01682	5
	53 1,1,2,2-Tetrachloroethane	83	12.160	12.175	(0.910)	661677	10.9863	11
	54 Bromobenzene	156	12.183	12.198	(0.912)	1108738	10.2964	10
	55 1,2,3-Trichloropropane	75	12.214	12.229	(0.914)	723666	10.7822	11
	56 n-Propylbenzene	120	12.315	12.330	(0.922)	1445977	10.4793	10
	57 2-Chlorotoluene	126	12.416	12.431	(0.930)	1437229	10.5151	10
	58 1,3,5-Trimethylbenzene	105	12.525	12.540	(0.938)	4565672	11.1273	11
	59 4-Chlorotoluene	126	12.541	12.555	(0.939)	1330131	10.5401	10
	61 tert-Butylbenzene	119	12.914	12.920	(0.967)	4412285	10.7196	11
	62 1,2,4-Trimethylbenzene	105	12.960	12.975	(0.970)	4187912	11.2546	11
	63 sec-Butylbenzene	105	13.162	13.177	(0.985)	5334396	11.1160	11
	65 4-Isopropyltoluene	119	13.333	13.340	(0.998)	3965098	10.8329	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5611.D
Report Date: 01-Feb-2005 11:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	13.287	13.301	(0.995)	2296814	10.3469	10
* 66 1,4-Dichlorobenzene-d4	152	13.357	13.371	(1.000)	563120	5.00000	
67 1,4-Dichlorobenzene	146	13.388	13.394	(1.002)	2104986	10.1105	10
68 n-Butylbenzene	91	13.792	13.806	(1.033)	3035599	10.0344	10
69 1,2-Dichlorobenzene	146	13.807	13.822	(1.034)	1797759	10.5035	10
70 1,2-Dibromo-3-chloropropane	75	14.662	14.669	(1.098)	64600	10.0259	10
71 1,2,4-Trichlorobenzene	180	15.571	15.578	(1.166)	653277	9.17132	9
72 Hexachlorobutadiene	225	15.758	15.764	(1.180)	472759	7.95787	8
73 Naphthalene	128	15.827	15.834	(1.185)	673336	8.63721	9
74 1,2,3-Trichlorobenzene	180	16.084	16.091	(1.204)	503083	8.68472	9

SB 2/1/05

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMSD

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5612.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 9:55

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 Time: 10:14

Dil Fac: 1.00 Analyst: msztrall | Date Analyzed: 01/27/05 Time: 17:21

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
75-71-8	Dichlorodifluoromethane	11		0.44	0.50
74-87-3	Chloromethane	11		0.29	0.50
75-01-4	Vinyl chloride	11		0.21	0.50
74-83-9	Bromomethane	11		0.21	0.50
75-00-3	Chloroethane	11		0.24	0.50
75-69-4	Trichlorofluoromethane	11		0.22	0.50
75-35-4	1,1-Dichloroethene	10		0.060	0.50
67-64-1	Acetone	9.2		0.56	5.0
75-15-0	Carbon disulfide	11		0.030	0.50
75-09-2	Methylene chloride	10		0.44	0.50
156-60-5	trans-1,2-Dichloroethene	11		0.020	0.50
1634-04-4	Methyl tert-butyl ether	11		0.10	0.50
75-34-3	1,1-Dichloroethane	11		0.22	0.50
78-93-3	2-Butanone	12		0.37	5.0
156-59-2	cis-1,2-Dichloroethene	11		0.020	0.50
594-20-7	2,2-Dichloropropane	11		0.23	0.50
74-97-5	Bromochloromethane	11		0.16	0.50
67-66-3	Chloroform	9.3		0.19	0.50
71-55-6	1,1,1-Trichloroethane	11		0.020	0.50
563-58-6	1,1-Dichloropropene	11		0.030	0.50
56-23-5	Carbon tetrachloride	11		0.21	0.50
107-06-2	1,2-Dichloroethane	11		0.090	0.50
71-43-2	Benzene	12		0.19	0.50
79-01-6	Trichloroethene	11		0.17	0.50
78-87-5	1,2-Dichloropropane	11		0.020	0.50
74-95-3	Dibromomethane	11		0.080	0.50
75-27-4	Bromodichloromethane	11		0.020	0.50
10061-01-5	cis-1,3-Dichloropropene	11		0.020	0.50
108-10-1	4-Methyl-2-pentanone	10		0.21	5.0
108-88-3	Toluene	12		0.020	0.50
10061-02-6	trans-1,3-Dichloropropene	11		0.080	0.50
79-00-5	1,1,2-Trichloroethane	11		0.10	0.50
142-28-9	1,3-Dichloropropane	11		0.060	0.50

FORM I VOA

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06AMSD

Sample wt/vol: 25.0 (G/ML) ML | Lab File ID: V1G5612.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 25000 (µL) | Date Extracted: 01/27/05 | Time: 10:14

Dil Fac: 1.00 | Analyst: msztrall | Date Analyzed: 01/27/05 | Time: 17:21

Prep Batch: 16639 | Analytical Run: V1_050126B

Instrument ID: V1 | TestCode: SW8260B_25_W

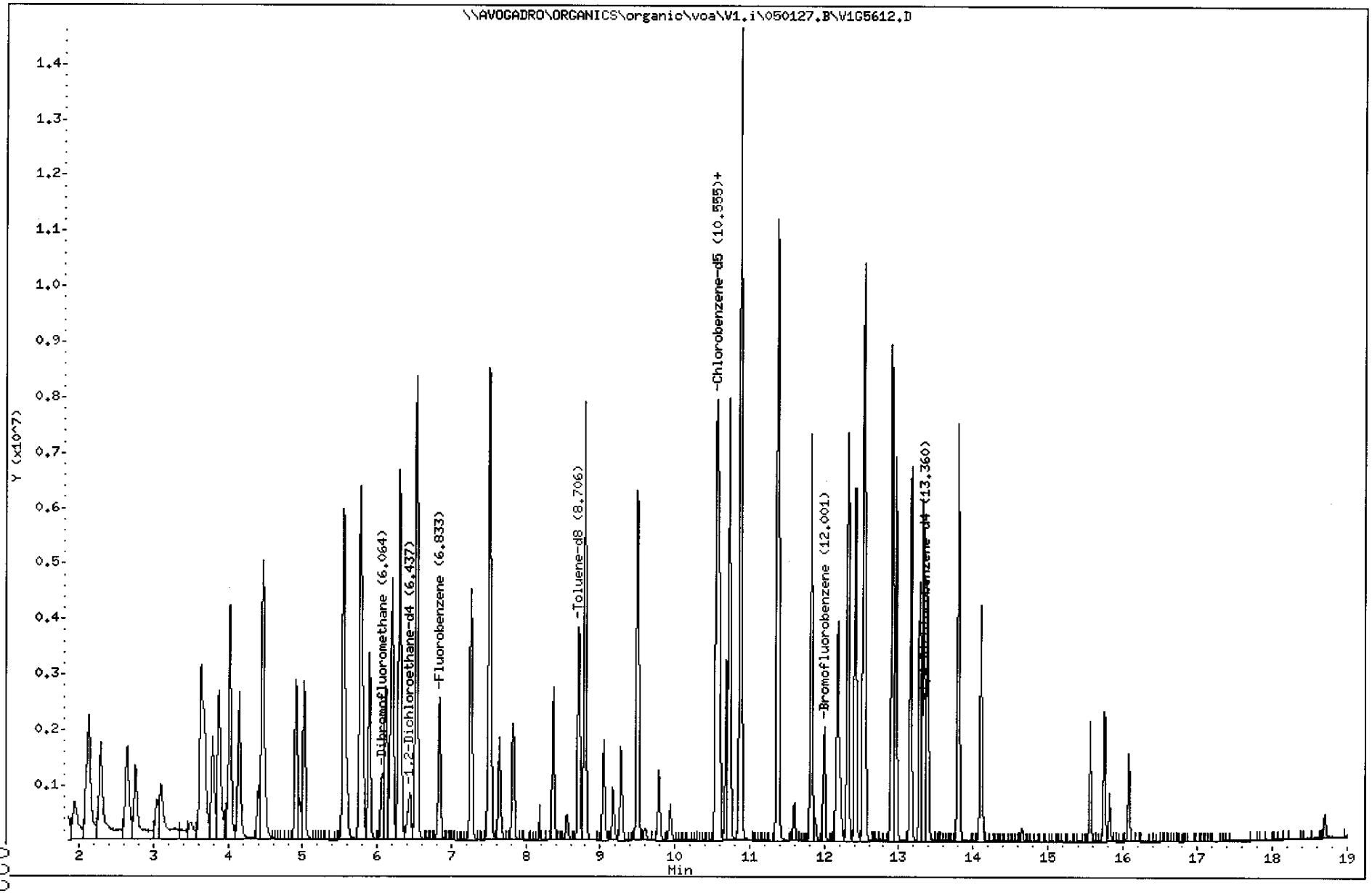
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
127-18-4	Tetrachloroethene	10		0.020	0.50
591-78-6	2-Hexanone	9.3		0.29	5.0
124-48-1	Dibromochloromethane	11		0.060	0.50
106-93-4	1,2-Dibromoethane	11		0.030	0.50
108-90-7	Chlorobenzene	11		0.030	0.50
630-20-6	1,1,1,2-Tetrachloroethane	10		0.040	0.50
100-41-4	Ethylbenzene	11		0.18	0.50
1330-20-7	m,p-Xylene	23		0.35	0.50
95-47-6	o-Xylene	11		0.030	0.50
1330-20-7	Xylene (Total)	33		0.17	0.50
100-42-5	Styrene	11		0.060	0.50
75-25-2	Bromoform	11		0.13	0.50
98-82-8	Isopropylbenzene	12		0.16	0.50
79-34-5	1,1,2,2-Tetrachloroethane	11		0.13	0.50
108-86-1	Bromobenzene	11		0.060	0.50
96-18-4	1,2,3-Trichloropropane	11		0.090	0.50
103-65-1	n-Propylbenzene	11		0.050	0.50
95-49-8	2-Chlorotoluene	11		0.060	0.50
108-67-8	1,3,5-Trimethylbenzene	12		0.030	0.50
106-43-4	4-Chlorotoluene	11		0.050	0.50
98-06-6	tert-Butylbenzene	12		0.070	0.50
95-63-6	1,2,4-Trimethylbenzene	12		0.040	0.50
135-98-8	sec-Butylbenzene	12		0.040	0.50
99-87-6	4-Isopropyltoluene	11		0.030	0.50
541-73-1	1,3-Dichlorobenzene	11		0.060	0.50
106-46-7	1,4-Dichlorobenzene	10		0.070	0.50
104-51-8	n-Butylbenzene	10		0.050	0.50
95-50-1	1,2-Dichlorobenzene	11		0.20	0.50
96-12-8	1,2-Dibromo-3-chloropropane	10		0.22	0.50
120-82-1	1,2,4-Trichlorobenzene	9.8		0.38	0.50
87-68-3	Hexachlorobutadiene	8.6		0.35	0.50
87-61-6	1,2,3-Trichlorobenzene	9.5		0.50	0.50
91-20-3	Naphthalene	9.7		0.42	0.50

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5612.D
Date : 27-JAN-2005 17:21
Client ID: CEF-CS2-01MSD
Sample Info: ,D0058-06AMSD,,16639
Purge Volume: 25.0
Column phase: DB-624

Instrument: v1.i

Operator: MS SRC: LIMS
Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5612.D
Report Date: 01-Feb-2005 11:46

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5612.D
Lab Smp Id: D0058-06AMSD Client Smp ID: CEF-CS2-01MSD
Inj Date : 27-JAN-2005 17:21
Operator : MS SRC: LIMS Inst ID: v1.i
Smp Info : ,D0058-06AMSD,,16639
Misc Info : ,3,,MSD
Comment :
Method : \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\v1AFCEE.m
Meth Date : 01-Feb-2005 11:44 mtl Quant Type: ISTD
Cal Date : 26-JAN-2005 18:34 Cal File: V1G5586.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 25/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	25.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.938	1.949	(0.284)	1640167	11.1034	11
2 Chloromethane	50	2.125	2.128	(0.311)	3507704	11.3480	11
3 Vinyl Chloride	62	2.288	2.291	(0.335)	2919260	10.7528	11
4 Bromomethane	94	2.638	2.656	(0.386)	1955379	10.8972	11
5 Chloroethane	64	2.754	2.773	(0.403)	1656029	10.6602	11
6 Trichlorofluoromethane	101	3.096	3.122	(0.453)	1828398	11.1811	11
7 1,1-Dichloroethene	96	3.632	3.651	(0.532)	1581572	10.4762	10
121 Acetone	43	3.671	3.697	(0.537)	150883	9.19767	9
123 Carbon Disulfide	76	3.873	3.891	(0.567)	5775869	10.9242	11
9 Methylene Chloride	84	4.153	4.171	(0.608)	1569577	10.1845	10
10 trans-1,2-Dichloroethene	96	4.456	4.482	(0.652)	1814996	10.9466	11
11 Methyl tert-butyl ether	73	4.471	4.497	(0.654)	1977128	11.0141	11
12 1,1-Dichloroethane	63	4.906	4.933	(0.718)	3506857	10.8087	11
14 2-Butanone	43	5.551	5.578	(0.812)	297845	11.5093	12
13 cis-1,2-Dichloroethene	96	5.544	5.570	(0.811)	1674378	10.7760	11
15 2,2-Dichloropropane	77	5.551	5.585	(0.812)	2553251	10.6347	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5612.D
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	16 Bromochloromethane	128	5.800	5.826	(0.849)	573046	10.7974	11
	17 Chloroform	83	5.893	5.920	(0.862)	2981884	9.25018	9
$	18 Dibromofluoromethane	113	6.064	6.090	(0.887)	828664	5.64937	6
	20 1,1,1-Trichloroethane	97	6.111	6.145	(0.894)	2350861	10.7514	11
	21 1,1-Dichloropropene	110	6.297	6.324	(0.922)	783953	10.9715	11
	22 Carbon Tetrachloride	117	6.305	6.339	(0.923)	1994609	10.7825	11
$	23 1,2-Dichloroethane-d4	102	6.437	6.463	(0.942)	117656	5.70669	6
	24 1,2-Dichloroethane	62	6.523	6.549	(0.955)	1300621	10.9203	11
	25 Benzene	78	6.523	6.549	(0.955)	7106622	11.5870	12
*	26 Fluorobenzene	96	6.833	6.860	(1.000)	2482907	5.00000	
	27 Trichloroethene	130	7.261	7.287	(1.063)	1740625	10.6411	11
	28 1,2-Dichloropropane	63	7.510	7.536	(1.099)	1566957	10.7477	11
	29 Dibromomethane	93	7.642	7.668	(1.118)	542733	11.2753	11
	30 Bromodichloromethane	83	7.828	7.846	(1.146)	1650932	10.8378	11
	31 cis-1,3-Dichloropropene	75	8.364	8.390	(1.224)	1830825	11.0382	11
	32 4-Methyl-2-pentanone	43	8.551	8.569	(1.251)	467051	10.1985	10
$	33 Toluene-d8	98	8.706	8.732	(1.274)	2884028	5.86709	6 (R)
	34 Toluene	91	8.792	8.818	(1.287)	6384445	11.8027	12
	35 trans-1,3-Dichloropropene	75	9.040	9.066	(1.323)	1175759	10.8416	11
	36 1,1,2-Trichloroethane	97	9.273	9.300	(1.357)	605125	11.3053	11
	37 1,3-Dichloropropane	76	9.491	9.517	(0.900)	1223863	10.8016	11
	38 Tetrachloroethene	164	9.491	9.517	(0.900)	1269907	10.0274	10
	122 2-Hexanone	43	9.592	9.618	(1.404)	229117	9.25172	9
	40 Dibromochloromethane	129	9.786	9.805	(0.928)	825380	10.8880	11
	41 1,2-Dibromoethane	107	9.934	9.960	(0.942)	568817	10.7847	11
*	43 Chlorobenzene-d5	117	10.548	10.566	(1.000)	1430064	5.00000	
	44 Chlorobenzene	112	10.586	10.605	(1.004)	3423280	10.5994	10
	45 1,1,1,2-Tetrachloroethane	131	10.680	10.706	(1.013)	1132970	10.4759	10
	46 Ethylbenzene	106	10.726	10.745	(1.017)	1930660	10.8380	11
	47 m,p-Xylene	106	10.874	10.892	(1.031)	4793454	22.6842	23
	48 o-Xylene	106	11.371	11.382	(1.078)	2160399	10.8050	11
M	60 Xylene (Total)	106				6953853	33.4892	33
	49 Styrene	104	11.379	11.397	(1.079)	3012479	10.8834	11
	50 Bromoform	173	11.597	11.615	(0.868)	352734	11.0818	11
	51 Isopropylbenzene	105	11.822	11.833	(0.885)	5209532	11.6677	12
$	52 Bromofluorobenzene	95	12.001	12.011	(1.138)	790114	5.23901	5
	53 1,1,2,2-Tetrachloroethane	83	12.164	12.175	(0.910)	624508	11.1633	11
	54 Bromobenzene	156	12.179	12.198	(0.912)	1074031	10.7380	11
	55 1,2,3-Trichloropropane	75	12.218	12.229	(0.915)	690140	11.0702	11
	56 n-Propylbenzene	120	12.319	12.330	(0.922)	1384103	10.7991	11
	57 2-Chlorotoluene	126	12.420	12.431	(0.930)	1375523	10.8343	11
	58 1,3,5-Trimethylbenzene	105	12.529	12.540	(0.938)	4384969	11.5054	12
	59 4-Chlorotoluene	126	12.545	12.555	(0.939)	1276385	10.8889	11
	61 tert-Butylbenzene	119	12.910	12.920	(0.966)	4427070	11.5793	12 (R)
	62 1,2,4-Trimethylbenzene	105	12.964	12.975	(0.970)	4040293	11.6894	12
	63 sec-Butylbenzene	105	13.166	13.177	(0.985)	5181253	11.6238	12
	65 4-Isopropyltoluene	119	13.329	13.340	(0.998)	3764777	11.0733	11

Data File: \\AVOGADRO\ORGANICS\organic\voa\V1.i\050127.B\V1G5612.D
Report Date: 01-Feb-2005 11:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	13.283	13.301	(0.994)	2214211	10.7388	11
* 66 1,4-Dichlorobenzene-d4	152	13.360	13.371	(1.000)	523061	5.00000	
67 1,4-Dichlorobenzene	146	13.384	13.394	(1.002)	2027421	10.4837	10
68 n-Butylbenzene	91	13.796	13.806	(1.033)	2917660	10.3831	10
69 1,2-Dichlorobenzene	146	13.811	13.822	(1.034)	1708752	10.7480	11
70 1,2-Dibromo-3-chloropropane	75	14.658	14.669	(1.097)	61855	10.3351	10
71 1,2,4-Trichlorobenzene	180	15.567	15.578	(1.165)	648256	9.79783	10
72 Hexachlorobutadiene	225	15.754	15.764	(1.179)	475827	8.62293	9
73 Naphthalene	128	15.824	15.834	(1.184)	701242	9.68408	10
74 1,2,3-Trichlorobenzene	180	16.088	16.091	(1.204)	509862	9.47583	9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

2/1/05

Instrument V 1
Injection Log

Mitkem Corporation
Volatiles Laboratory

METHOD: V1AFCEE
INITIAL CAL: 1/26/05
COMMENTS:

CAL ID: VW050126C-STD
IS/SS ID: VW050126A-IS
VW050126B-SS

ANALYST: MS
DATE: 1/26/05
DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V1G55	80	BFB1P		BFB1P	2µl	-	OK 15:27			
		81	V5TD0101P		V5TD0101P	25ml	-				
		82	V5TD0.5P		V5TD0.5P		-				
		83	V5TD0401P		V5TD0401P		-	AFCEE ICAL			
		84	V5TD0201P		V5TD0201P		-				
		85	V5TD0041P		V5TD0041P		-				
		86	V5TD0801P		V5TD0801P		-				
		87	MB-16628		VBLK1P		-				
		88	D0001-	01A	MDL		-				
		89		02A			-				
		90		03A			-				
		91		04A			-				
		92		05A			-				
		93		06A			-				
		94		07A			-				
	V1G55	95	D0001-	08A	MDL	25mL	-				

YD 1/28/05

Logbook ID 90.0204-12/04

Reviewed By: YD 1/31/05

Logbook page: 023

Instrument V 1
Injection Log

Mitkem Corporation
Volatiles Laboratory

METHOD: V1AFCEE
INITIAL CAL: 1/26/05
COMMENTS:

CAL ID: VW050126C-STD
IS/SS ID: VW050126A-IS
VW050126B-SS

ANALYST: MS
DATE: 1/27/05
DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V1G56	00	BFB1R		BFB1R	2ml	–	OK 8:59			
		01	VMD0101R		VMD0101R	25ml	–	OK	✓		
		02	MB-16639		VBLK1R		–	OK	✓	✓	
		03	LCS-16639		V1RLCS		–	OK	✓	✓	
		04	V1BLK	1R	V1BLK1R		–	not used	✓	✓	
		05	D0058	01A	CEF-CS5-01		–	OK	✓	✓	<2
		06		02A	-CS4-		–	OK	✓	✓	
		07		03A	-CS7-		–	OK	✓	✓	
		08		04A	-CS3-		–	OK	✓	✓	
		09		05A	-CS6-		–	OK	✓	✓	
		10		06A	-CS2-		–	OK	✓	✓	
		11		06AMS	-CS2- MS		–	OK	✓	✓	
		12		06AMSD	-CS2- MSD		–	OK	✓	✓	
		13		07A	-CS1A-		–	RR2X Naph. 50	✓	✓	
		14		08A	-CS10-		–	RR carryover	✓	✓	
		15		09A	-CS8-		–	OK	✓	✓	
		16		10A	-CS9-		–	OK	✓	✓	
		17	D0058	11A	CEF-CSDUP-01		–	RR2X 1,2,4TMB.51	✓	✓	
		18	D0077	03A	TB-012505		–	RR carryover 20:33		✓	
		19		02A	RBO-12505		–	RR OTT	✓	✓	
	V1G56	20	D0077	01A	RBI-012505	25ml	10	RR20X C3,1,2PCE.59	✓	✓	<2

1/28/05 MS

Logbook ID 90.0204-12/04

Reviewed By: TD 1/31/05

Logbook page: 024

Instrument V 1
Injection Log

Mitkem Corporation
Volatiles Laboratory

METHOD: VIAFCEE
INITIAL CAL: 1/26/05
COMMENTS:

CAL ID: VW050126C-STD
IS/SS ID: VW050126A-IS
VW050126B-SS

ANALYST: MS
DATE: 1/28/05
DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	VIG56	30	BFBIS		BFBIS	2µl	–	OK (9:05)			
		31	VSTD0101S		VSTD0101S	25ml	–	OK	✓		
		32	MB-16653		VBLKIS		–	OK	✓	✓	
		33	LCS-16653		VISLCS		–	OK	✓	✓	
		34	LCSD-16653		VISLCSD		–	OK	✓	✓	
		35	D0077	03A	TB-012505		–	OK	✓	✓	
		36	↓	02A	RBO-12505		–	OK	✓	✓	
		37	D0077	01A~~DL~~	RBE-012505~~DL~~		20	OK cis-1,2 DCE.26	✓	✓	
		38	D0058	07A	CEF-CS1A-01		2	RR6x 1,2,4TMB.48	✓	✓	
		39	↓	08A	↓ CS10 ↓		–	RR	✓	✓	
		40	D0058	11A	CEF-CS0UP-01		2	RR6x 1,2,4TMB.49	✓	✓	
		41	VIBLK	1S	VIBLKIS		–	OK	✓	✓	
		42	D0058	08A	CEF-CS10-01		–	OK	✓	✓	
		43	↓	07ADL	↓ -CS1A-01DL		6	OK 1,2,4TMB.16	✓	✓	
	↓	44	D0058	11ADL	CEF-CS0UP-01DL	↓	6	OK 1,2,4TMB.17	✓	✓	
	VIG56	45	VIBLK	1S	VIBLKIS	25ml	–	OK (18:34)	✓	✓	

1/31/05 MS

Logbook ID 90.0204-12/04

Reviewed By: YD 1/31/05

Logbook page: 025

MITKEM CORPORATION: VOLATILES RECEIVING LOGBOOK

VOA Log-In Date	Workorder	Client	Sample Numbers	Relinquished By	Refrigerator ID	Comments
1/17/05	D0043	URS	01-15	SN	R4	
1/17/05	D0044	Watermark	01-20	SN	R4	
1/17/05	D0045	Watermark	01-20	SN	R4	
1/17/05	D0046	CDM	01-16	SN	R9	
1/18/05	D0049	Wave	01	MS	R4	
1/17/05	D0050	RIDEM	01	EL	N/a	returned to spl rec.
1/18/05	D0051	Shaw	06-08	SB	R10	
1/18/05	D0052	URS	01-16	SB	R4	
1-19-05	D0053	D+B	01-09	JC	R9	
1/20/05	D0054	Watermark	01-20	MS	R10	
1/20/05	D0056	Maguire	01	MS	R10	
1/20/05	D0055	CEE	01-08	SN	R4	
1/20/05	D0059	ERM-PR	01-03, 05-10 12-16	SN	R4	
1/20/05	D0058	Tetra Tech	01-11	SN	R13	
1/21/05	D0063	TRC	01-06	SN	R4	

MITKEM CORPORATION

* Semivolatile Organics *

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Level: (low/med)

	EPA SAMPLE NO.	S1 (BEP) #								TOT OUT
01	SBLK4A	116								0
02	S4ALCS	100								0
03	CEF-CS5-01	76								0
04	CEF-CS4-01	96								0
05	CEF-CS7-01	92								0
06	CEF-CS3-01	96								0
07	CEF-CS6-01	84								0
08	CEF-CS2-01	64								0
09	CEF-CS2-01MS	68								0
10	CEF-CS2-01MSD	64								0
11	CEF-CS1A-01	84								0
12	CEF-CS10-01	76								0
13	CEF-CS8-01	76								0
14	CEF-CS9-01	84								0
15	CEF-CSDUP-01	72								0
16	CEF-CS1A-01DL	104								0
17	CEF-CSDUP-01D	80								0

QC LIMITS

S1 (BEP) = Benzo(e)pyrene-d12 (45-135)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

COMPOUND	SPIKE ADDED (µg/L)	SAMPLE CONCENTRATION (µg/L)	MS CONCENTRATION (µg/L)	MS % REC #	QC. LIMITS REC.
Naphthalene	2.5	0	2.5	100	45-135
2-Methylnaphthalene	2.5	0	2.5	100	45-135
Acenaphthylene	2.5	0	2.6	104	45-135
Acenaphthene	2.5	0	2.7	108	45-135
Fluorene	2.5	0	2.6	104	45-135
Phenanthrene	2.5	0	2.6	104	45-135
Anthracene	2.5	0	2.5	100	45-135
Fluoranthene	2.5	0	2.3	92	45-135
Pyrene	2.5	0	2.1	84	45-135
Benzo(a)anthracene	2.5	0	1.7	68	45-135
Chrysene	2.5	0	1.9	76	45-135
Benzo(b)fluoranthene	2.5	0	1.4	56	45-135
Benzo(k)fluoranthene	2.5	0	1.5	60	45-135
Benzo(a)pyrene	2.5	0	1.4	56	45-135
Indeno(1,2,3-cd)pyrene	2.5	0	0.94	38*	45-135
Dibenzo(a,h)anthracene	2.5	0	1.1	44*	45-135
Benzo(g,h,i)perylene	2.5	0	1.1	44*	45-135
1-Methylnaphthalene	2.5	0	2.6	104	45-135

COMPOUND	SPIKE ADDED (µg/L)	MSD CONCENTRATION (µg/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	2.5	2.3	92	8	50	45-135
2-Methylnaphthalene	2.5	2.3	92	8	50	45-135
Acenaphthylene	2.5	2.5	100	4	50	45-135
Acenaphthene	2.5	2.6	104	4	50	45-135
Fluorene	2.5	2.6	104	0	50	45-135
Phenanthrene	2.5	2.4	96	8	50	45-135
Anthracene	2.5	2.4	96	4	50	45-135
Fluoranthene	2.5	2.2	88	4	50	45-135

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

* Values outside of QC limits

RPD: 0 out of 18 outside limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: MD0058

Matrix Spike - EPA Sample No.: CEF-CS2-01

Pyrene	2.5	2	80	5	50	45-135
Benzo(a)anthracene	2.5	1.5	60	13	50	45-135
Chrysene	2.5	1.7	68	11	50	45-135
Benzo(b)fluoranthene	2.5	1.2	48	15	50	45-135
Benzo(k)fluoranthene	2.5	1.3	52	14	50	45-135
Benzo(a)pyrene	2.5	1.2	48	15	50	45-135
Indeno(1,2,3-cd)pyrene	2.5	0.96	38*	0	50	45-135
Dibenzo(a,h)anthracene	2.5	0.93	37*	17	50	45-135
Benzo(g,h,i)perylene	2.5	0.97	39*	12	50	45-135
1-Methylnaphthalene	2.5	2.4	96	8	0	45-135

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

* Values outside of QC limits

RPD: 0 out of 18 outside limits

Spike Recovery: 6 out of 36 outside limits

COMMENTS: _____

3C

WATER SEMIVOLATILE LABORATORY CONTROL SAMPLE/DUPLICATE RECOVERY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix Spike - EPA Sample No.: S4ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (µg/L)	BLANK CONCENTRATION (µg/L)	LCS CONCENTRATION (µg/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	2.5	0	2.3	92	45-135
2-Methylnaphthalene	2.5	0	2.4	96	45-135
Acenaphthylene	2.5	0	2.6	104	45-135
Acenaphthene	2.5	0	2.6	104	45-135
Fluorene	2.5	0	2.7	108	45-135
Phenanthrene	2.5	0	2.7	108	45-135
Anthracene	2.5	0	2.7	108	45-135
Fluoranthene	2.5	0	2.8	112	45-135
Pyrene	2.5	0	2.7	108	45-135
Benzo(a)anthracene	2.5	0	2.6	104	45-135
Chrysene	2.5	0	2.7	108	45-135
Benzo(b)fluoranthene	2.5	0	2.8	112	45-135
Benzo(k)fluoranthene	2.5	0	2.8	112	45-135
Benzo(a)pyrene	2.5	0	2.7	108	45-135
Indeno(1,2,3-cd)pyrene	2.5	0	2.8	112	45-135
Dibenzo(a,h)anthracene	2.5	0	2.9	116	45-135
Benzo(g,h,i)perylene	2.5	0	2.7	108	45-135
1-Methylnaphthalene	2.5	0	2.4	96	45-135

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

* Values outside of QC limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Client Sample ID

SBLK4A

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER Lab Sample ID: MB-16595

Level: (low/med) LOW Lab File ID: S4A6819.D

TestCode: PAH_SIM_W Date Extracted: 01/24/05 Time: 15:00

Instrument ID: S4 Date Analyzed: 01/28/05 Time: 15:23

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S4ALCS	LCS-16595	S4A6820.D	1/28/05
02	CEF-CS5-01	D0058-01B	S4A6821.D	1/28/05
03	CEF-CS4-01	D0058-02B	S4A6822.D	1/28/05
04	CEF-CS7-01	D0058-03B	S4A6823.D	1/28/05
05	CEF-CS3-01	D0058-04B	S4A6824.D	1/28/05
06	CEF-CS6-01	D0058-05B	S4A6825.D	1/28/05
07	CEF-CS2-01	D0058-06B	S4A6826.D	1/28/05
08	CEF-CS2-01MS	D0058-06BMS	S4A6827.D	1/28/05
09	CEF-CS2-01MSD	D0058-06BMSD	S4A6828.D	1/28/05
10	CEF-CS1A-01	D0058-07B	S4A6829.D	1/28/05
11	CEF-CS10-01	D0058-08B	S4A6830.D	1/28/05
12	CEF-CS8-01	D0058-09B	S4A6831.D	1/28/05
13	CEF-CS9-01	D0058-10B	S4A6832.D	1/28/05
14	CEF-CSDUP-01	D0058-11B	S4A6833.D	1/29/05
15	CEF-CS1A-01DL	D0058-07BDL	S4A6843A.D	1/31/05
16	CEF-CSDUP-01DL	D0058-11BDL	S4A6844A.D	1/31/05

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6810.D DFTPP Injection Date: 01/28/05

Instrument ID: S4 DFTPP Injection Time: 10:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.2
68	Less than 2.0% of mass 69	0.4 (0.9)1
69	Mass 69 relative abundance	42.8
70	Less than 2.0% of mass 69	0.4 (0.9)1
127	40.0 - 60.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.4
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than mass 443	8.3
442	40.0 - 99.9% of mass 198	45.7
443	17.0 - 23.0% of mass 442	9.0 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014A	SSTD0014A	S4A6811.D	01/28/05	10:41
02	SSTD0.14A	SSTD0.14A	S4A6812.D	01/28/05	11:19
03	SSTD0104A	SSTD0104A	S4A6813.D	01/28/05	11:59
04	SSTD0054A	SSTD0054A	S4A6814.D	01/28/05	12:36
05	SSTD0.54A	SSTD0.54A	S4A6815.D	01/28/05	13:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6816.D DFTPP Injection Date: 01/28/05

Instrument ID: S4 DFTPP Injection Time: 13:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.5
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	42.5
70	Less than 2.0% of mass 69	0.4 (1.0)1
127	40.0 - 60.0% of mass 198	43.3
197	Less than 1.0% of mass 198	0.5
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	22.2
365	Greater than 1.0% of mass 198	3.5
441	Present, but less than mass 443	7.2
442	40.0 - 99.9% of mass 198	43.3
443	17.0 - 23.0% of mass 442	9.2 (21.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014B	SSTD0014B	S4A6817.D	01/28/05	14:08
02	SBLK4A	MB-16595	S4A6819.D	01/28/05	15:23
03	S4ALCS	LCS-16595	S4A6820.D	01/28/05	16:01
04	CEF-CS5-01	D0058-01B	S4A6821.D	01/28/05	16:39
05	CEF-CS4-01	D0058-02B	S4A6822.D	01/28/05	17:16
06	CEF-CS7-01	D0058-03B	S4A6823.D	01/28/05	17:53
07	CEF-CS3-01	D0058-04B	S4A6824.D	01/28/05	18:31
08	CEF-CS6-01	D0058-05B	S4A6825.D	01/28/05	19:08
09	CEF-CS2-01	D0058-06B	S4A6826.D	01/28/05	19:46
10	CEF-CS2-01MS	D0058-06BMS	S4A6827.D	01/28/05	20:23
11	CEF-CS2-01MSD	D0058-06BMSD	S4A6828.D	01/28/05	21:01
12	CEF-CS1A-01	D0058-07B	S4A6829.D	01/28/05	21:39
13	CEF-CS10-01	D0058-08B	S4A6830.D	01/28/05	22:16
14	CEF-CS8-01	D0058-09B	S4A6831.D	01/28/05	22:54
15	CEF-CS9-01	D0058-10B	S4A6832.D	01/28/05	23:31
16	CEF-CSDUP-01	D0058-11B	S4A6833.D	01/29/05	0:08

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Lab File ID: S4A6840.D DFTPP Injection Date: 01/31/05

Instrument ID: S4 DFTPP Injection Time: 11:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	39.6
70	Less than 2.0% of mass 69	0.3 (0.8)1
127	40.0 - 60.0% of mass 198	46.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	24.7
365	Greater than 1.0% of mass 198	4.1
441	Present, but less than mass 443	8.9
442	40.0 - 99.9% of mass 198	58.5
443	17.0 - 23.0% of mass 442	11.0 (18.8)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0014C	SSTD0014C	S4A6841.D	01/31/05	11:51
02	CEF-CS1A-01DL	D0058-07BDL	S4A6843A.D	01/31/05	15:03
03	CEF-CSDUP-01DL	D0058-11BDL	S4A6844A.D	01/31/05	15:41

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014B Date Analyzed: 01/28/05

Lab File ID (Standard): S4A6817.D Time Analyzed: 14:08

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	368104	7.90	1128324	9.79	558036	12.51
	UPPER LIMIT	736208	8.40	2256648	10.29	1116072	13.01
	LOWER LIMIT	184052	7.40	564162	9.29	279018	12.01
	EPA SAMPLE NO.						
01	SBLK4A	300538	7.90	881945	9.79	425333	12.51
02	S4ALCS	278189	7.91	787363	9.79	373340	12.51
03	CEF-CS5-01	345117	7.90	990196	9.79	485154	12.51
04	CEF-CS4-01	346186	7.91	985740	9.79	466927	12.51
05	CEF-CS7-01	418030	7.90	1244158	9.79	614212	12.51
06	CEF-CS3-01	342017	7.91	968967	9.79	463271	12.51
07	CEF-CS6-01	367998	7.90	1013987	9.79	492300	12.51
08	CEF-CS2-01	406252	7.90	1190285	9.79	595847	12.51
09	CEF-CS2-01MS	356863	7.91	1013989	9.79	505727	12.51
10	CEF-CS2-01MSD	377092	7.91	1021375	9.79	500759	12.51
11	CEF-CS1A-01	335525	7.91	919246	9.79	480566	12.51
12	CEF-CS10-01	434868	7.90	1300280	9.79	676995	12.51
13	CEF-CS8-01	375450	7.90	1110438	9.79	552715	12.51
14	CEF-CS9-01	330585	7.90	899861	9.79	447275	12.51
15	CEF-CSDUP-01	426312	7.90	1233042	9.79	667763	12.51

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014B Date Analyzed: 01/28/05

Lab File ID (Standard): S4A6817.D Time Analyzed: 14:08

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	884882	14.84	706368	19.01	607429	22.11
	UPPER LIMIT	1769764	15.34	1412736	19.51	1214858	22.61
	LOWER LIMIT	442441	14.34	353184	18.51	303715	21.61
	EPA SAMPLE NO.						
01	SBLK4A	649283	14.85	512330	19.01	432699	22.11
02	S4ALCS	576144	14.84	464673	19.01	395509	22.11
03	CEF-CS5-01	734796	14.84	601885	19.01	518810	22.11
04	CEF-CS4-01	704462	14.84	567168	19.01	488678	22.11
05	CEF-CS7-01	926608	14.84	760880	19.01	671678	22.11
06	CEF-CS3-01	712768	14.84	603313	19.01	530084	22.11
07	CEF-CS6-01	745467	14.84	642103	19.01	556524	22.11
08	CEF-CS2-01	931105	14.84	815940	19.01	708320	22.11
09	CEF-CS2-01MS	767215	14.84	648105	19.01	583675	22.11
10	CEF-CS2-01MSD	765160	14.84	660756	19.01	588943	22.11
11	CEF-CS1A-01	727327	14.84	624429	19.01	549994	22.11
12	CEF-CS10-01	1037692	14.84	873641	19.01	754413	22.11
13	CEF-CS8-01	811900	14.84	668185	19.01	582443	22.11
14	CEF-CS9-01	680637	14.84	587402	19.01	508296	22.11
15	CEF-CSDUP-01	1008408	14.84	844778	19.01	721392	22.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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 values outside QC limits with an asterisk.
* Values outside of QC limits.

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FORM VIII SV-2 OLM04.2

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014C Date Analyzed: 01/31/05

Lab File ID (Standard): S4A6841.D Time Analyzed: 11:51

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	366438	7.91	1164048	9.79	638385	12.51
	UPPER LIMIT	732876	8.41	2328096	10.29	1276770	13.01
	LOWER LIMIT	183219	7.41	582024	9.29	319193	12.01
	EPA SAMPLE NO.						
01	CEF-CS1A-01DL	270187	7.91	866122	9.79	456824	12.51
02	CEF-CSDUP-01DL	268487	7.91	860499	9.78	452133	12.51

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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.

page 1 of 1

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

EPA Sample No.(SSTD050##): SSTD0014C Date Analyzed: 01/31/05

Lab File ID (Standard): S4A6841.D Time Analyzed: 11:51

Instrument ID: S4 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1040013	14.84	921975	19.01	812034	22.11
	UPPER LIMIT	2080026	15.34	1843950	19.51	1624068	22.61
	LOWER LIMIT	520007	14.34	460988	18.51	406017	21.61
	EPA SAMPLE NO.						
01	CEF-CS1A-01DL	747886	14.84	651992	19.01	545224	22.11
02	CEF-CSDUP-01DL	741337	14.84	644346	19.01	532610	22.11

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
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 values outside QC limits with an asterisk.
* Values outside of QC limits.

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS5-01

Lab Name: Mitkem Corporation
Contract:

Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER
Lab Sample ID: D0058-01B

Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6821.D

Level: (low/med) LOW
Date Collected: 01/18/05 Time: 10:30

% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 16:39

Prep Batch: 16595
Analytical Run: S4_050128B

Instrument ID: S4
TestCode: PAH_SIM_W

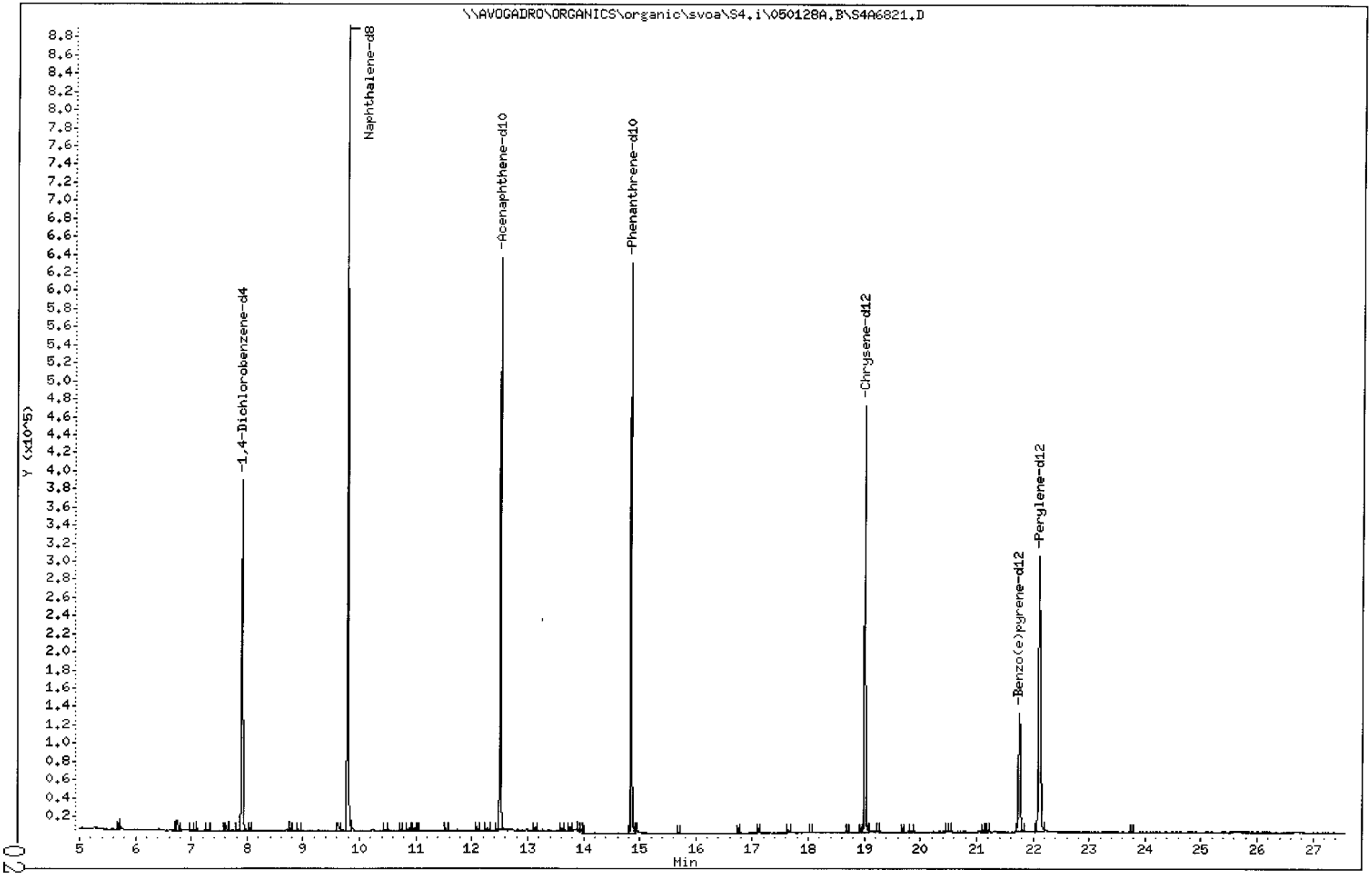
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6821.D
Date : 28-JAN-2005 16:39
Client ID: CEF-CS5-01
Sample Info: D0058-01B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6821.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6821.D
Lab Smp Id: D0058-01B Client Smp ID: CEF-CS5-01
Inj Date : 28-JAN-2005 16:39
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-01B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D ✓
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	345117	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	990196	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	485154	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	734796	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	601885	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.754	21.748	(0.984)	218102	1.92553	1.9
* 30 Perylene-d12	264	22.108	22.108	(1.000)	518810	5.00000	

02/04/05 AW

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS4-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-02B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6822.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 11:20

% Moisture: Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 17:16

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

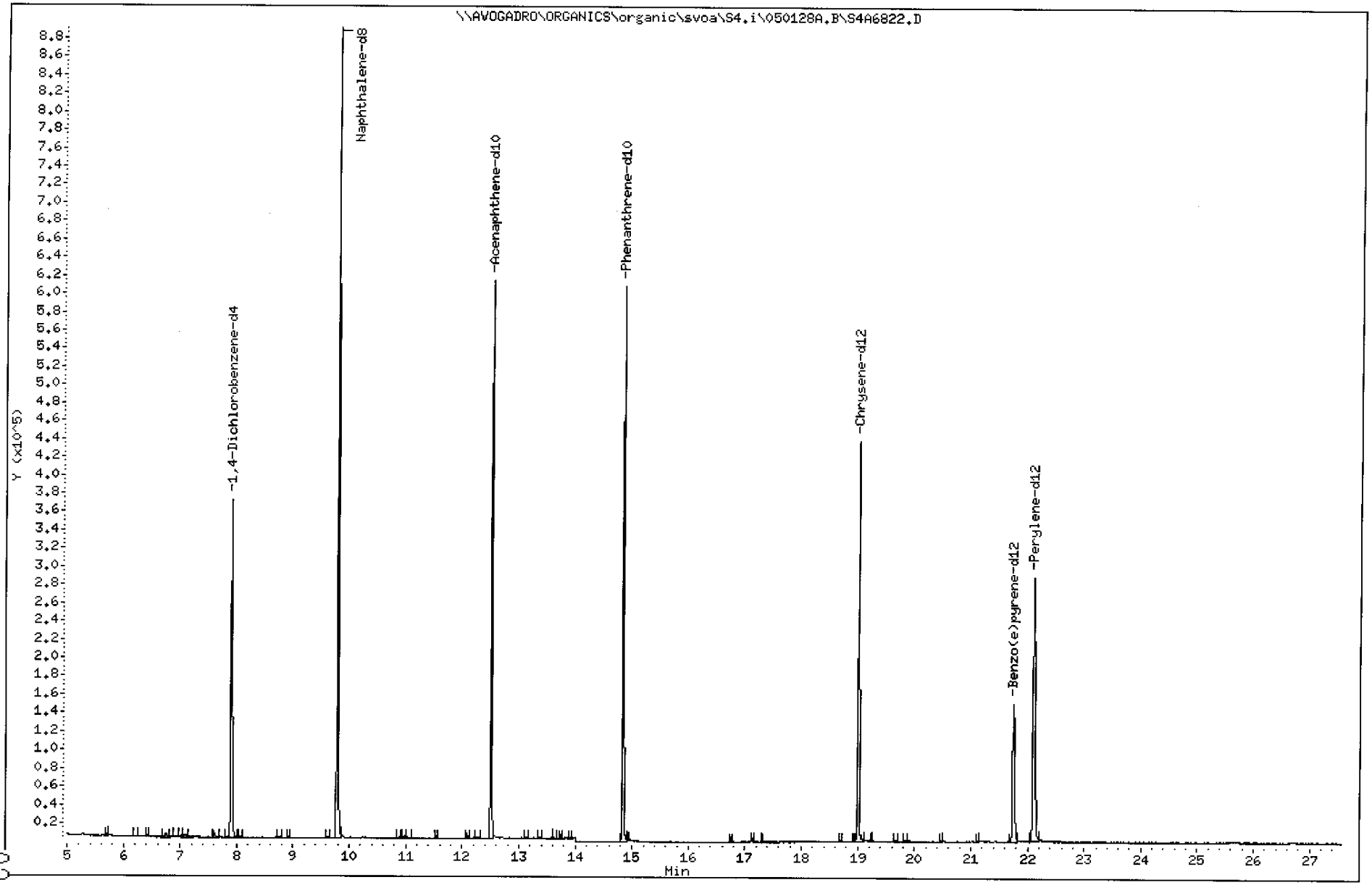
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6822.D
Date : 28-JAN-2005 17:16
Client ID: CEF-CS4-01
Sample Info: D0058-02B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6822.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6822.D
Lab Smp Id: D0058-02B Client Smp ID: CEF-CS4-01
Inj Date : 28-JAN-2005 17:16
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-02B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	346186	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	985740	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	466927	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	704462	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	567168	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	254151	2.38214	2.4
* 30 Perylene-d12	264	22.113	22.108	(1.000)	488678	5.00000	

02/04/05 KU KL

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS7-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-03B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6823.D

Level: (low/med) LOW | Date Collected: 01/18/05 Time: 13:50

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 17:53

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

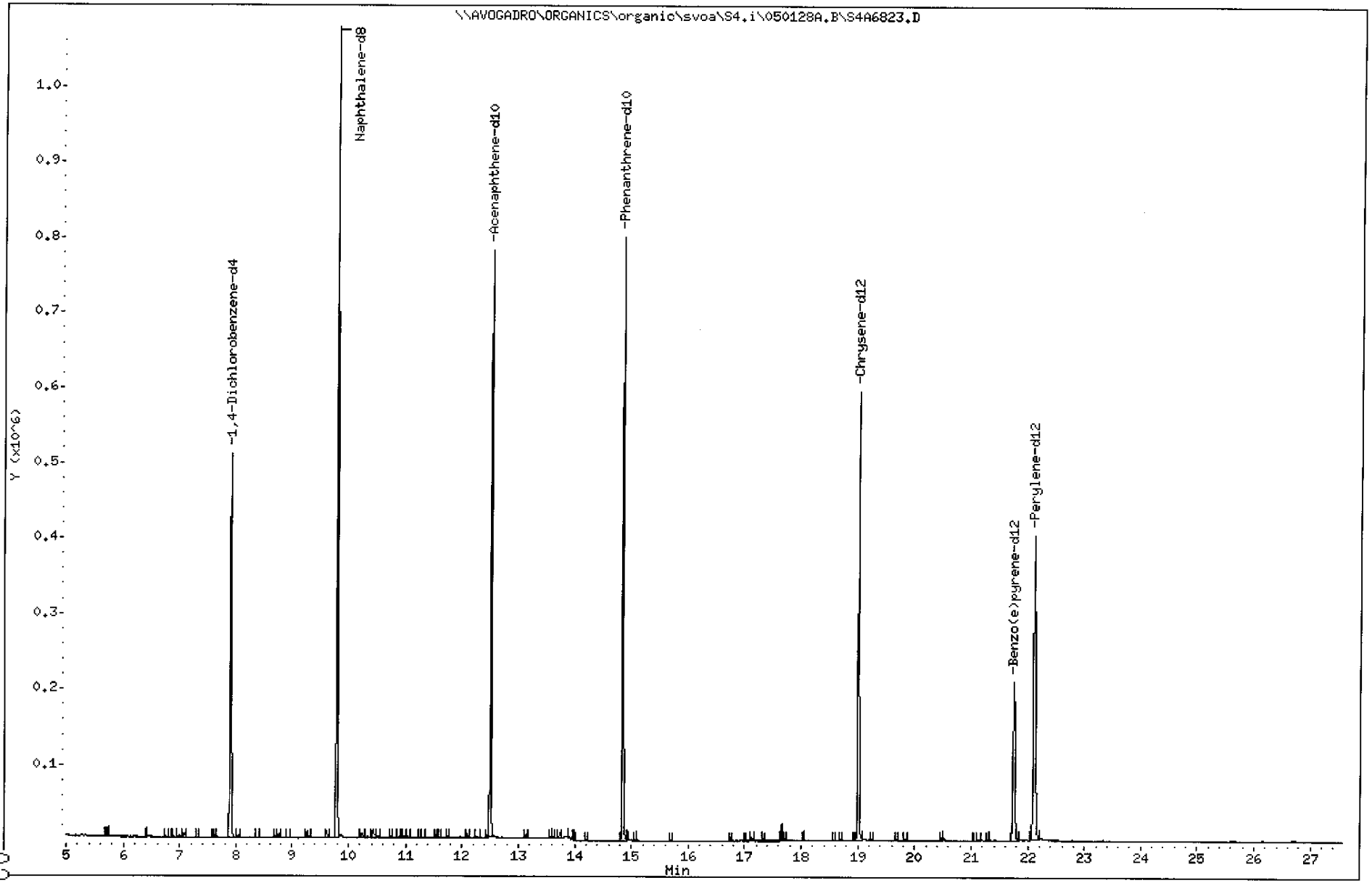
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6823.D
Date : 28-JAN-2005 17:53
Client ID: CEF-CS7-01
Sample Info: D0058-03B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6823.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6823.D
Lab Smp Id: D0058-03B Client Smp ID: CEF-CS7-01
Inj Date : 28-JAN-2005 17:53
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-03B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	418030	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1244158	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	614212	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	926608	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	760880	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	343688	2.34369	2.3
* 30 Perylene-d12	264	22.108	22.108	(1.000)	671678	5.00000	

02/04/05

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1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS3-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-04B
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6824.D
Level: (low/med) LOW
Date Collected: 01/18/05 Time: 14:55
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 18:31
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

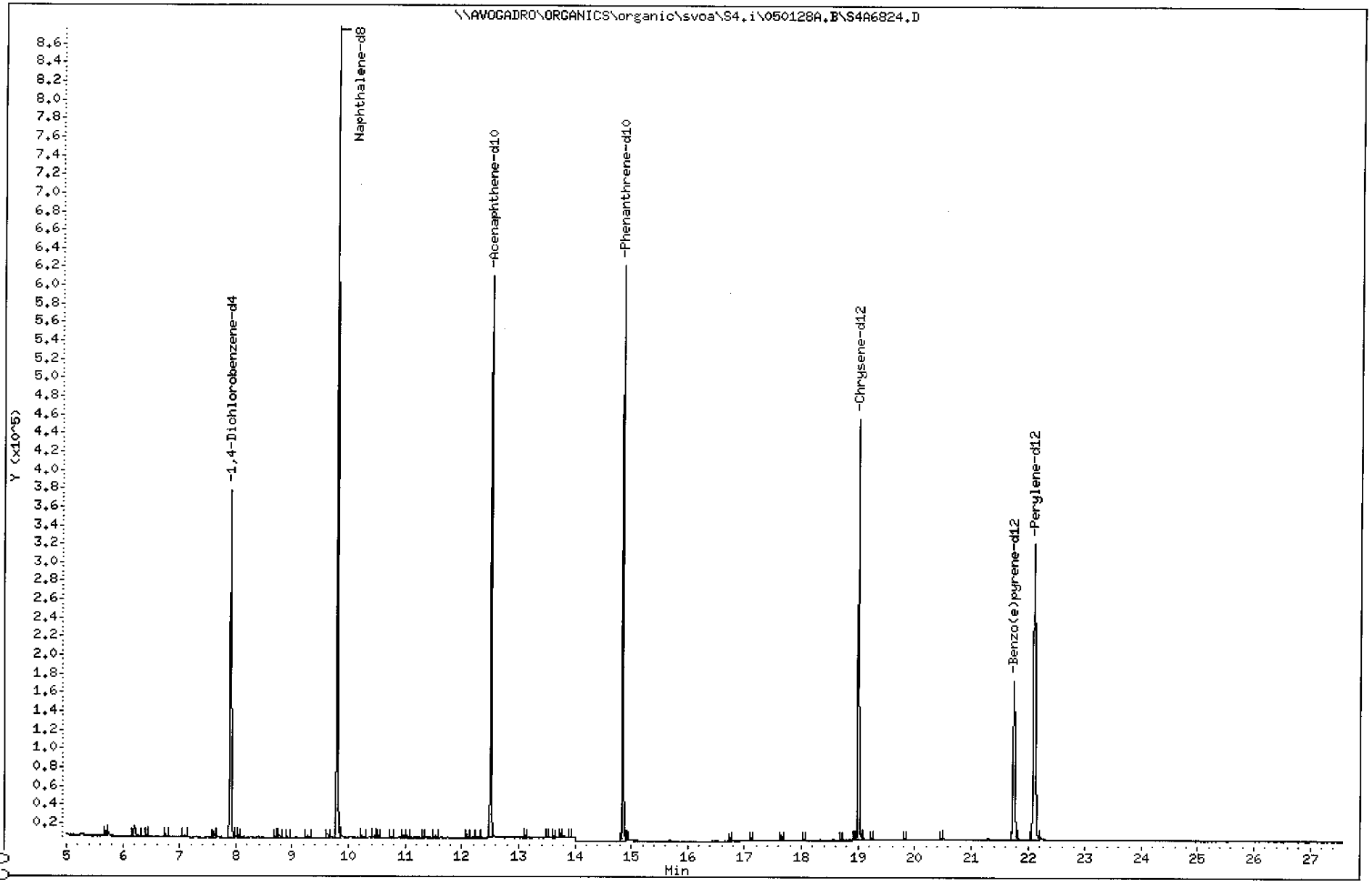
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6824.D
Date : 28-JAN-2005 18:31
Client ID: CEF-CS3-01
Sample Info: D0058-04B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6824.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6824.D
Lab Smp Id: D0058-04B Client Smp ID: CEF-CS3-01
Inj Date : 28-JAN-2005 18:31
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-04B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D ✓
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	342017	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	968967	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	463271	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	712768	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	603313	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	276069	2.38545	2.4
* 30 Perylene-d12	264	22.108	22.108	(1.000)	530084	5.00000	

02/04/05 AU

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1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS6-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-05B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6825.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 10:42

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 19:08

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

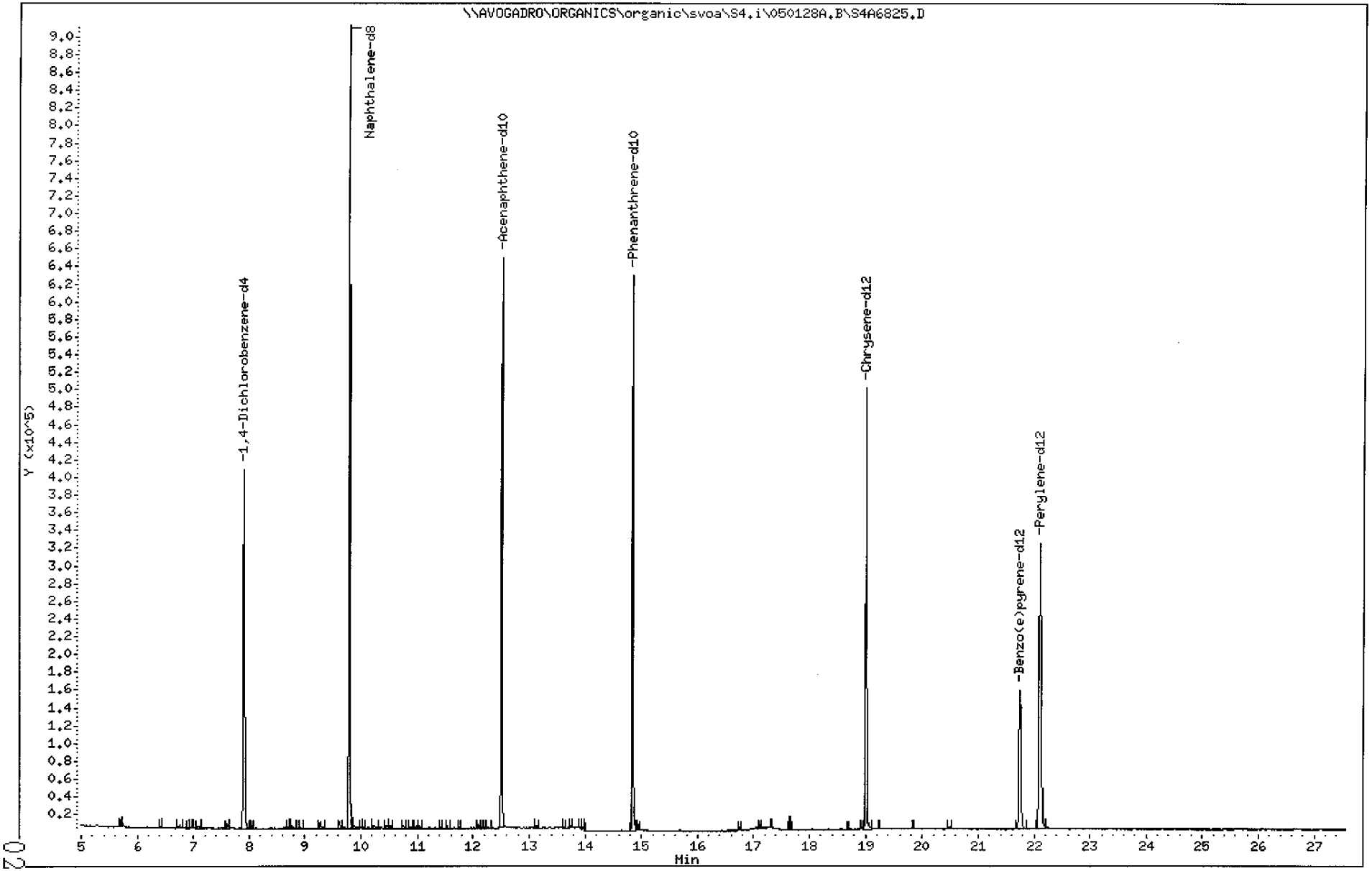
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6825.D
Date : 28-JAN-2005 19:08
Client ID: CEF-CS6-01
Sample Info: D0058-05B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6825.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6825.D
Lab Smp Id: D0058-05B Client Smp ID: CEF-CS6-01
Inj Date : 28-JAN-2005 19:08
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-05B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	367998	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	1013987	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	492300	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	745467	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	642103	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.754	21.748	(0.984)	261158	2.14940	2.1
* 30 Perylene-d12	264	22.108	22.108	(1.000)	556524	5.00000	

02/04/05 AW

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1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-06B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6826.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 9:55

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 19:46

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

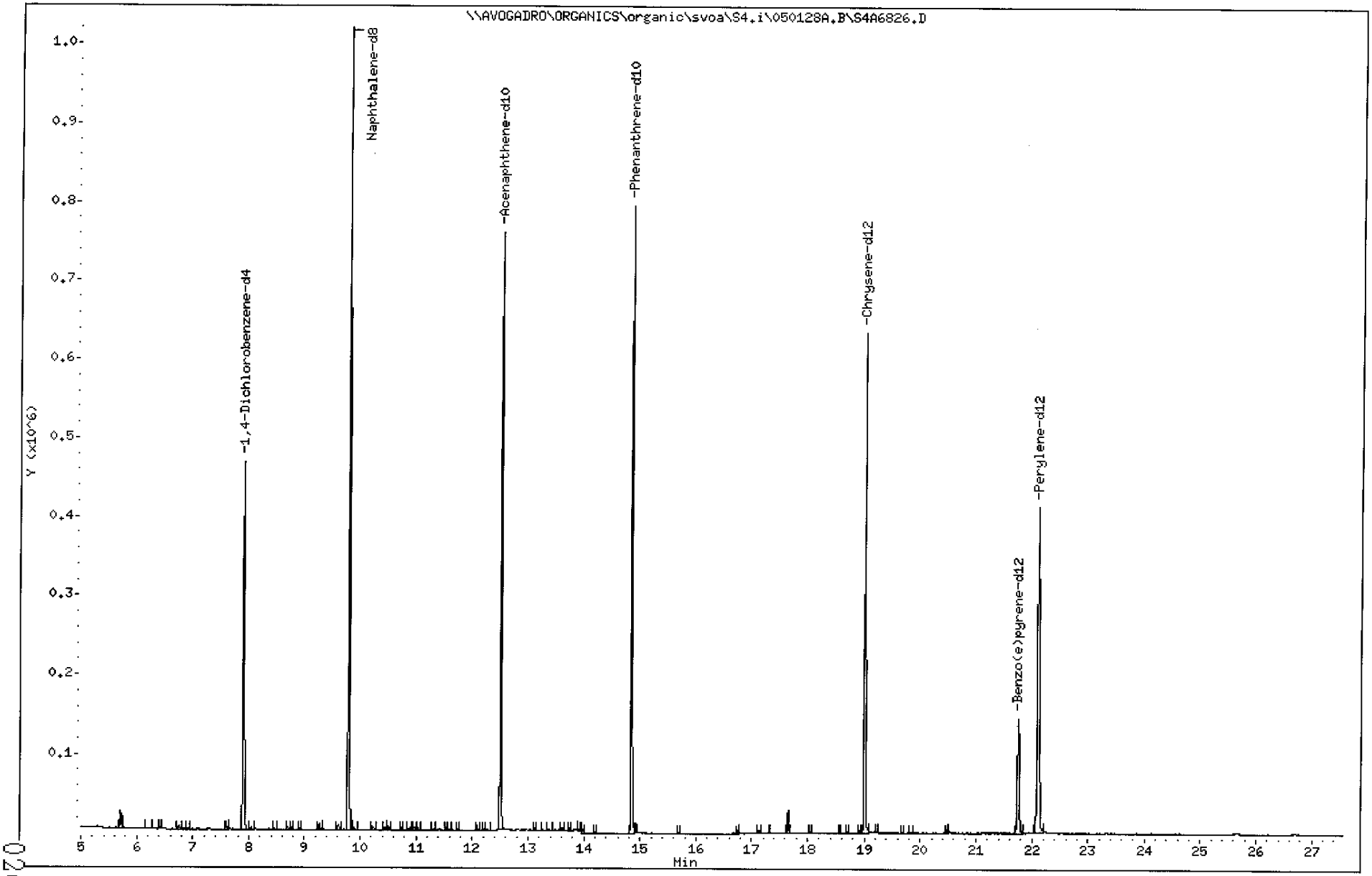
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6826.D
Date : 28-JAN-2005 19:46
Client ID: CEF-CS2-01
Sample Info: D0058-06B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



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Data File: S4A6826.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6826.D
Lab Smp Id: D0058-06B Client Smp ID: CEF-CS2-01
Inj Date : 28-JAN-2005 19:46
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-06B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	406252	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1190285	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	595847	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	931105	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	815940	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	239798	1.55065	1.6
* 30 Perylene-d12	264	22.113	22.108	(1.000)	708320	5.00000	

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1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS1A-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-07B
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6829.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 11:15
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 21:39
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

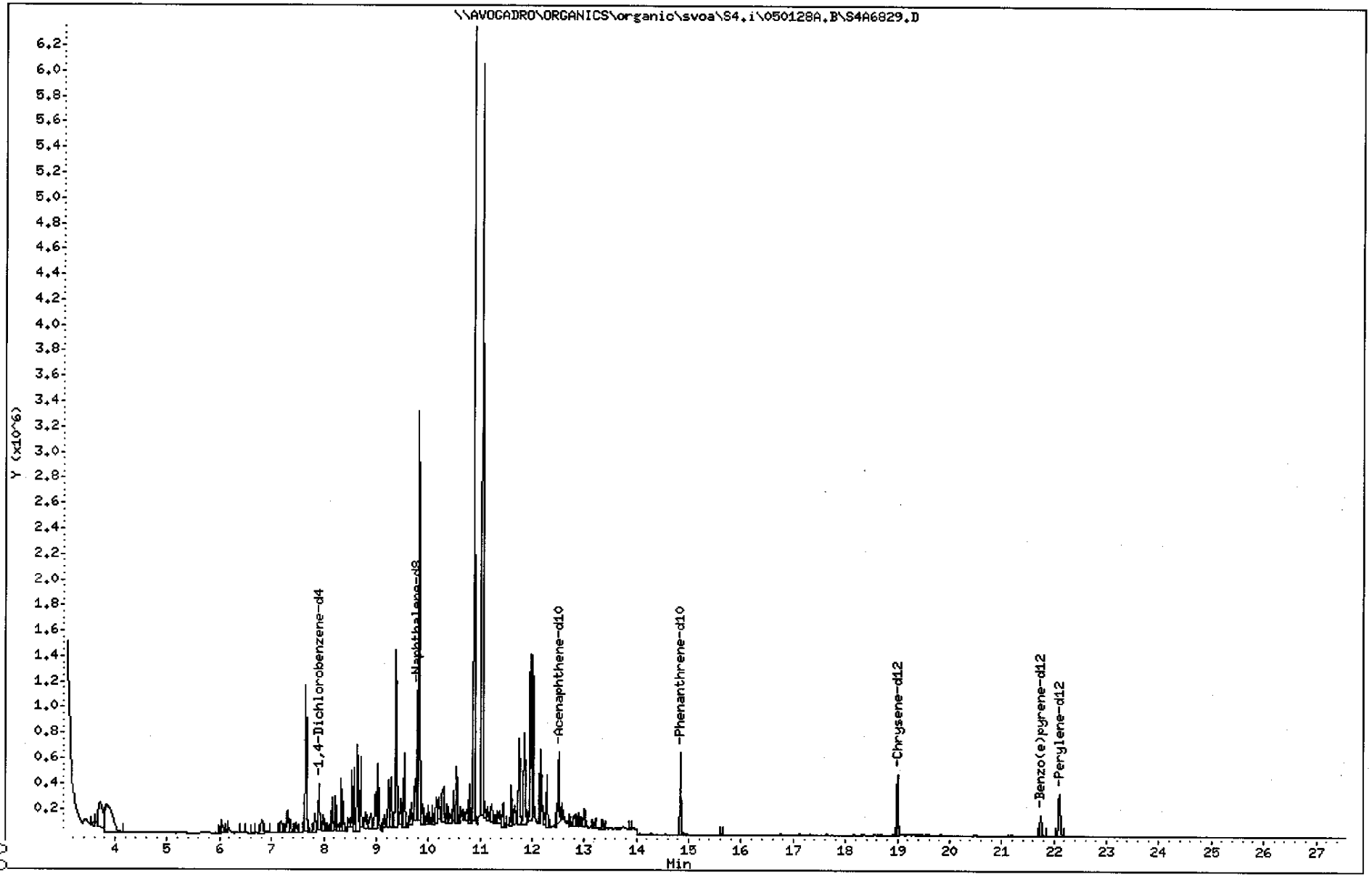
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**20**	**L**	**0.027**	**0.10**
91-57-6	**2-Methylnaphthalene**	**32**	**L**	**0.041**	**0.10**
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	**Acenaphthene**	**0.31**		**0.027**	**0.10**
86-73-7	**Fluorene**	**0.16**		**0.023**	**0.10**
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**31**	**L**	**0.041**	**0.10**

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D
Date : 28-JAN-2005 21:39
Client ID: CEF-CS1A-01
Sample Info: D0058-07B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0263

Data File: S4A6829.D
Report Date: 07-Feb-2005 13:50

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D
Lab Smp Id: D0058-07B Client Smp ID: CEF-CS1A-01
Inj Date : 28-JAN-2005 21:39
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-07B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 04-Feb-2005 09:02 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	335525	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	919246	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	3578562	20.3263	20(A)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	3335095	31.5003	32(A)
8 1-Methylnaphthalene	142	11.040	11.030	(1.128)	3156328	30.8611	31(A)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	480566	5.00000	
13 Acenaphthene	153	12.561	12.561	(1.004)	31667	0.30762	0.31(Q)
15 Fluorene	166	13.366	13.366	(1.068)	18204	0.15826	0.16
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	727327	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	624429	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	253257	2.10912	2.1
* 30 Perylene-d12	264	22.108	22.108	(1.000)	549994	5.00000	

KL
2/7/05

Data File: S4A6829.D
Report Date: 07-Feb-2005 13:50

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D

Date : 28-JAN-2005 21:39

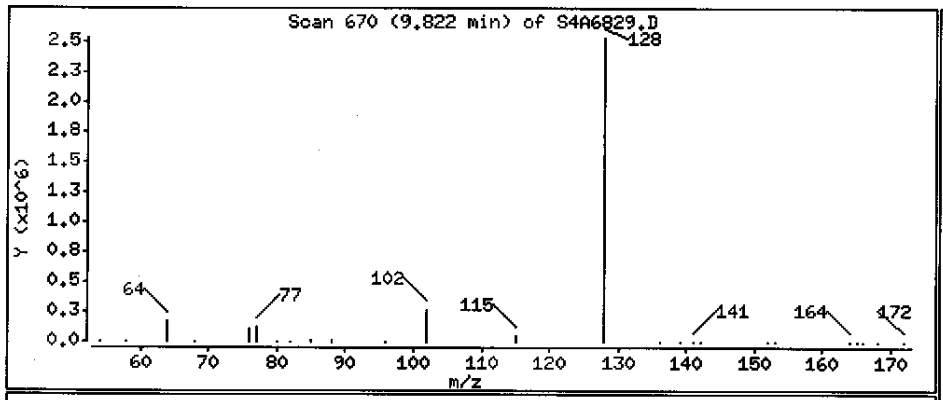
Client ID: CEF-CS1A-01 Instrument: S4.i

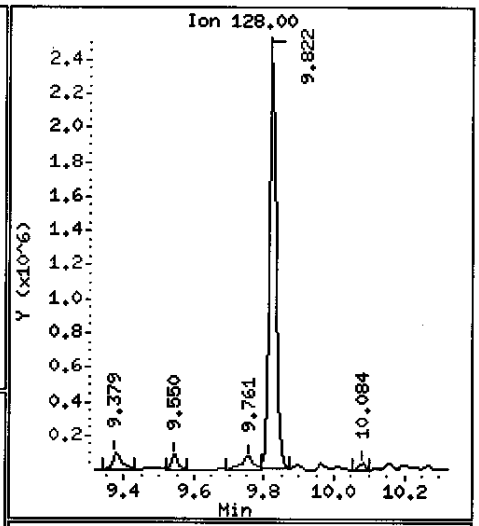
Sample Info: D0058-07B,,16595,,

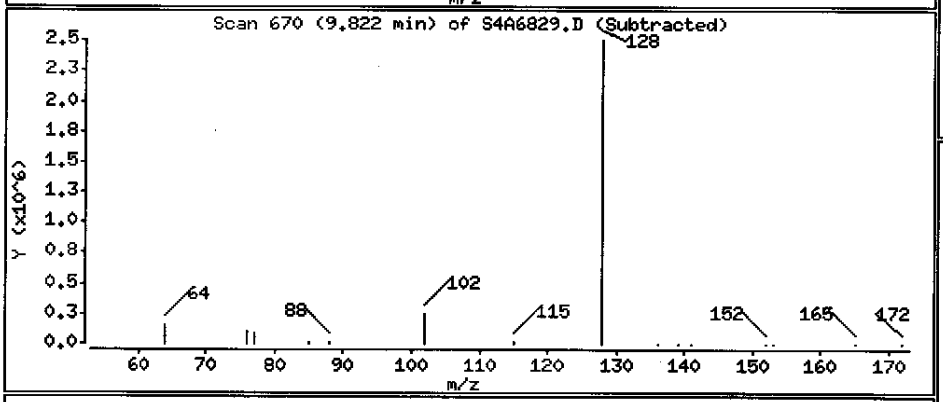
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

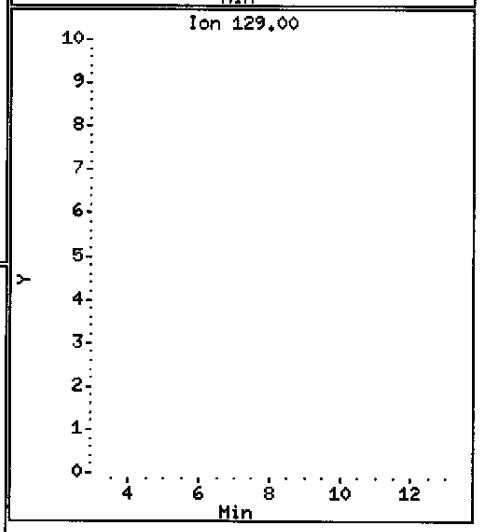
Column phase: DB-5MS Column diameter: 0.25

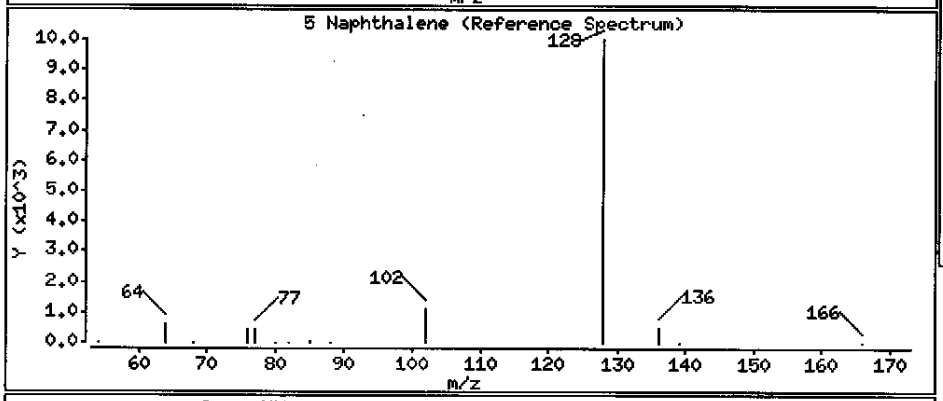
5 Naphthalene Concentration: 20 ug/L

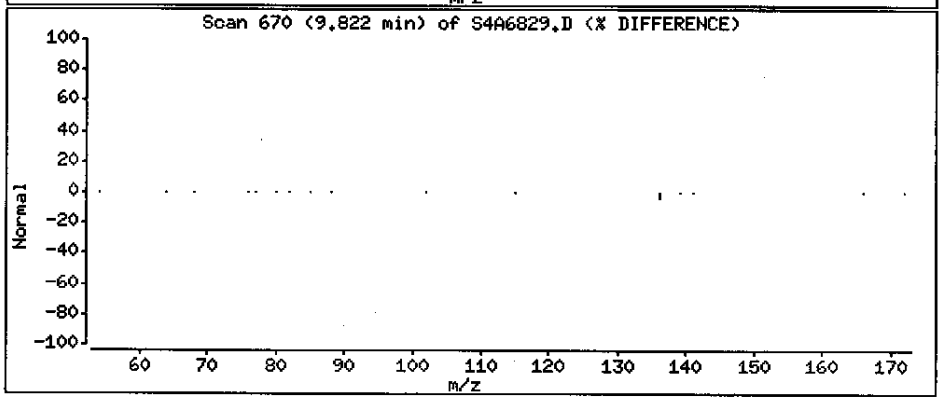












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D

Date : 28-JAN-2005 21:39

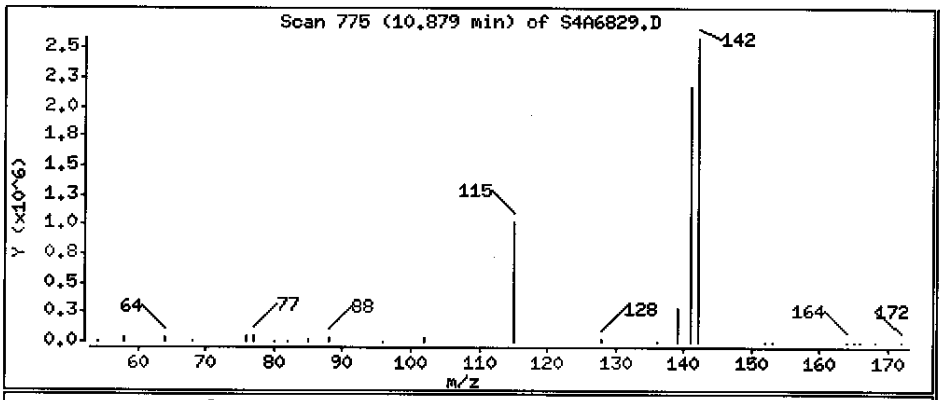
Client ID: CEF-CS1A-01 | Instrument: S4.i

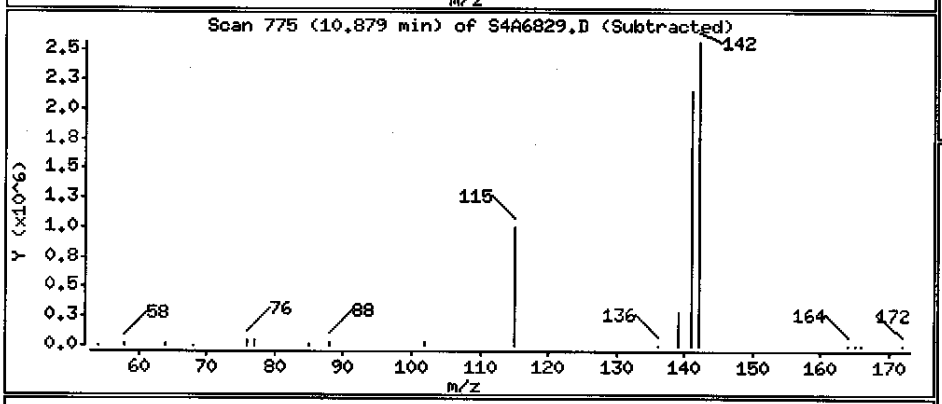
Sample Info: D0058-07B,,16595,,

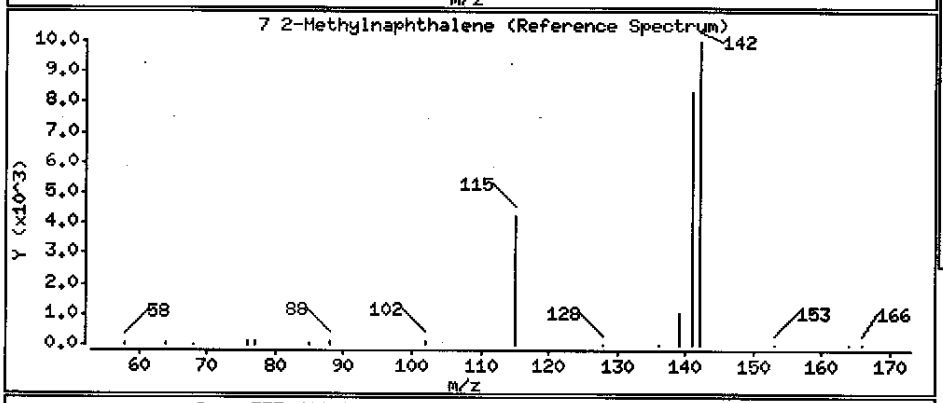
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

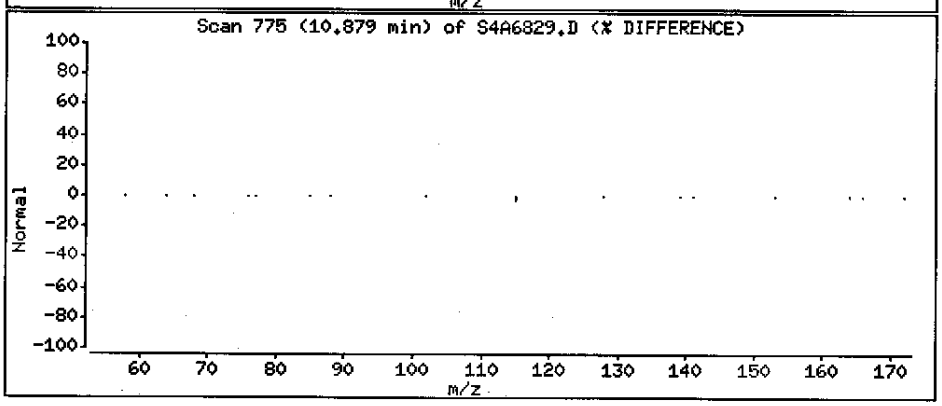
Column phase: DB-5MS | Column diameter: 0.25

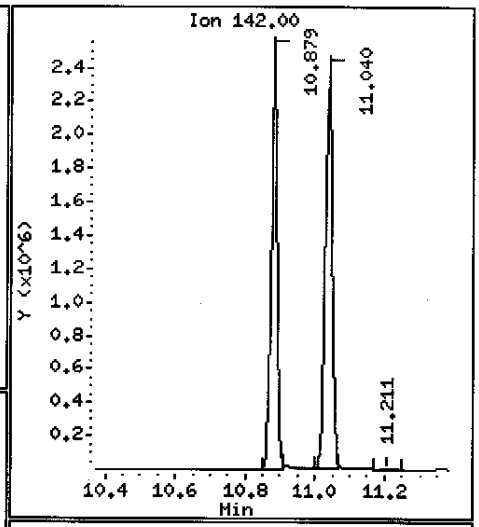
7 2-Methylnaphthalene | Concentration: 32 ug/L

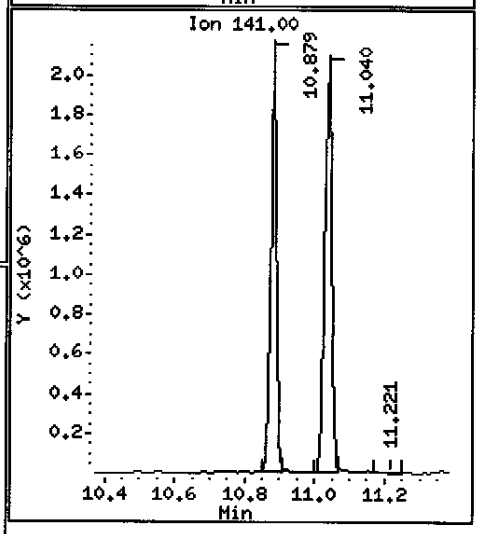












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D

Date : 28-JAN-2005 21:39

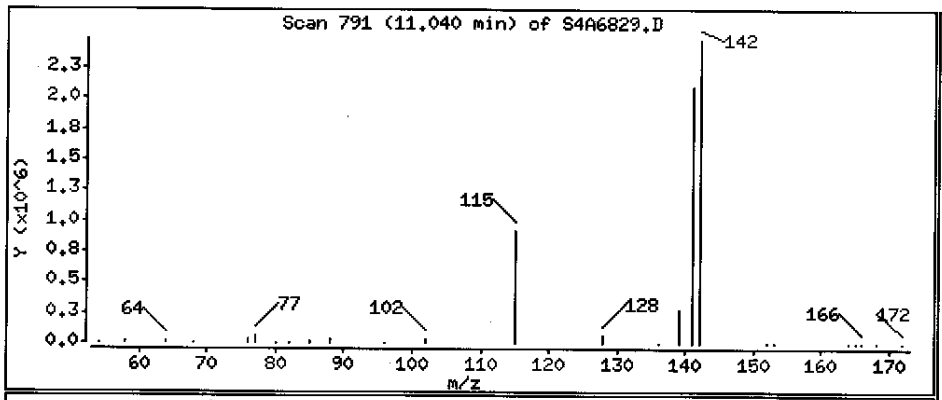
Client ID: CEF-CS1A-01 Instrument: S4.i

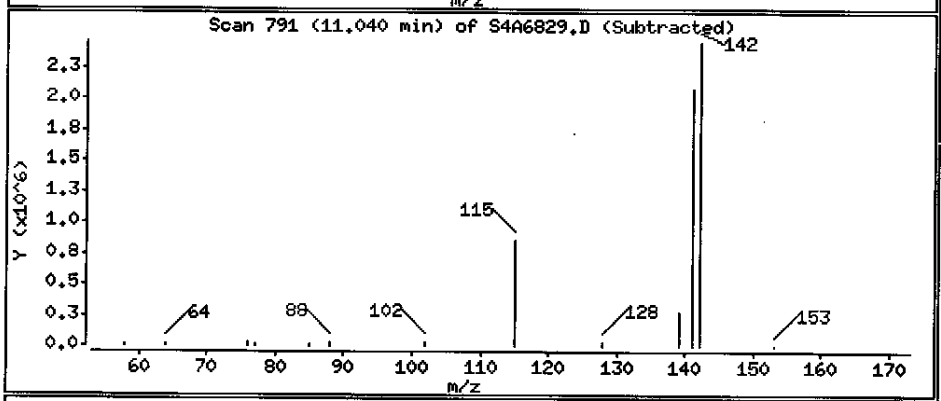
Sample Info: D0058-07B,,16595,,

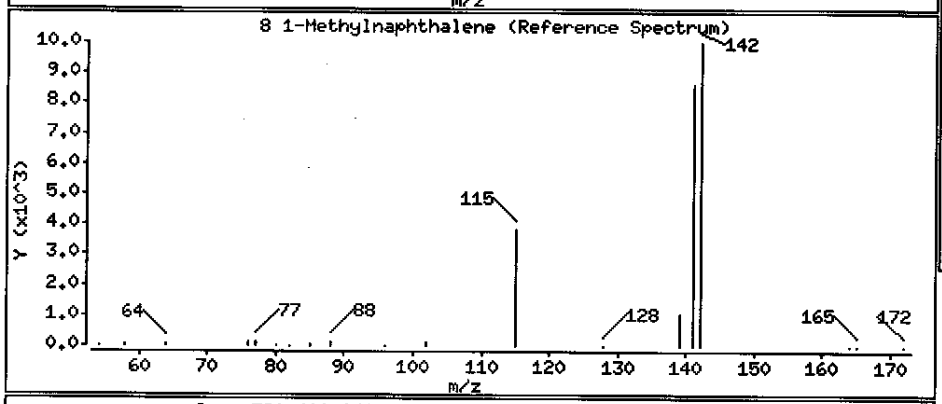
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

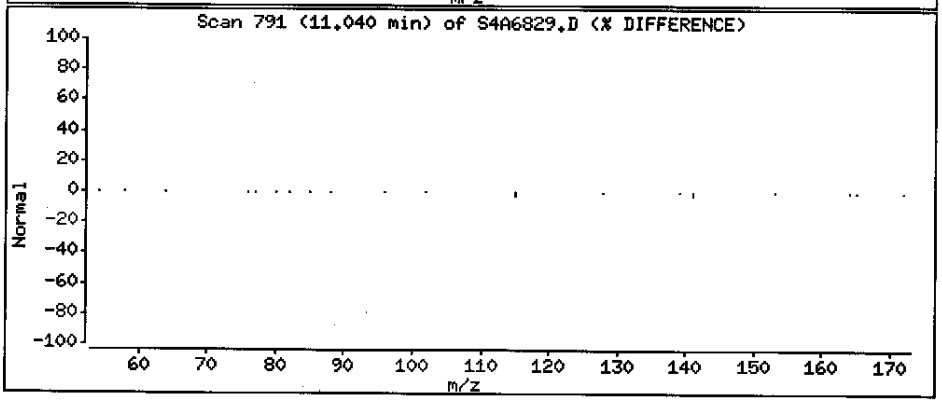
Column phase: DB-5MS Column diameter: 0.25

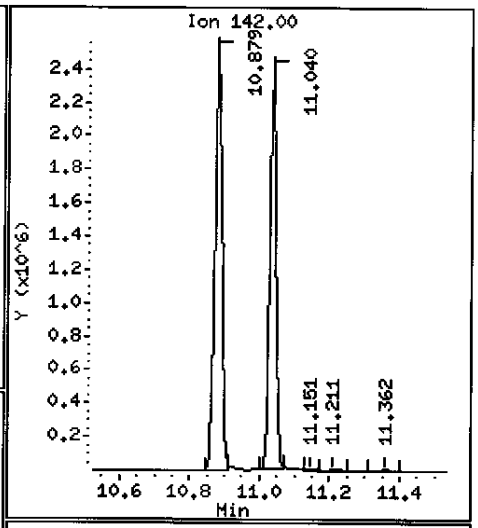
8 1-Methylnaphthalene Concentration: 31 ug/L

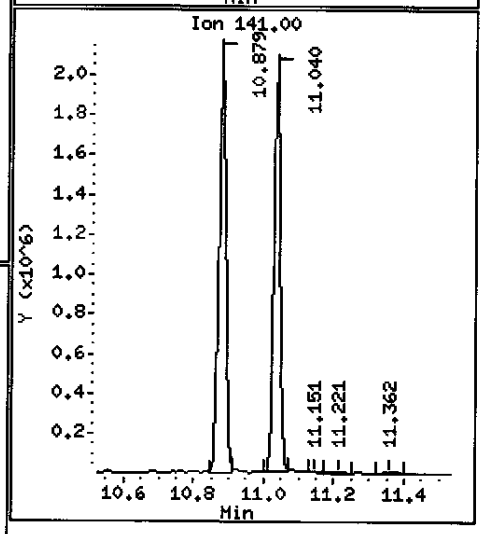












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D

Date : 28-JAN-2005 21:39

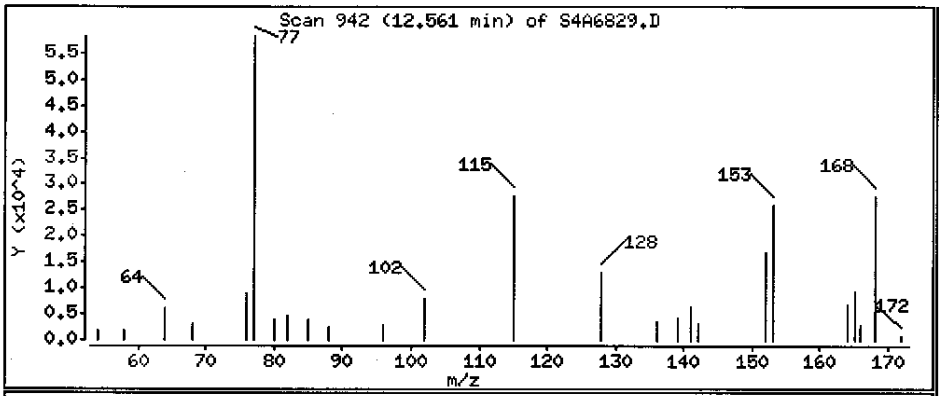
Client ID: CEF-CS1A-01 Instrument: S4.i

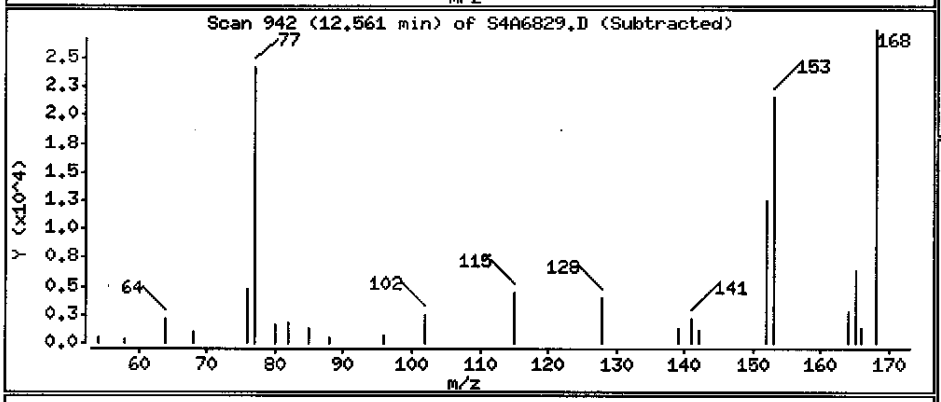
Sample Info: D0058-07B,,16595,,

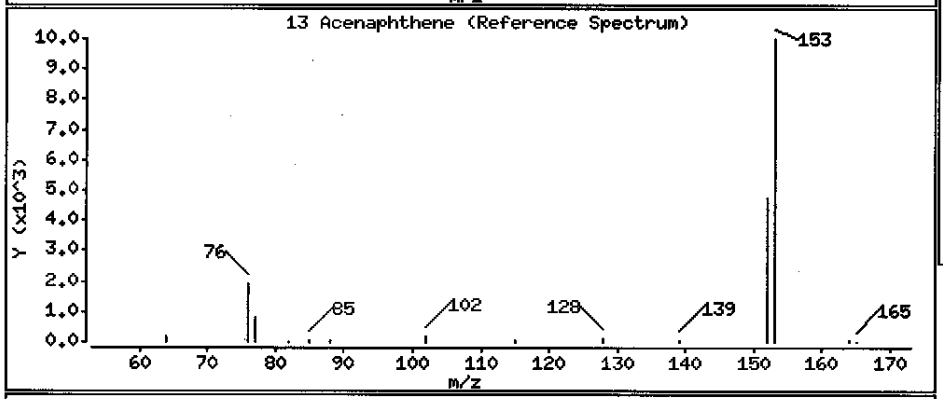
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

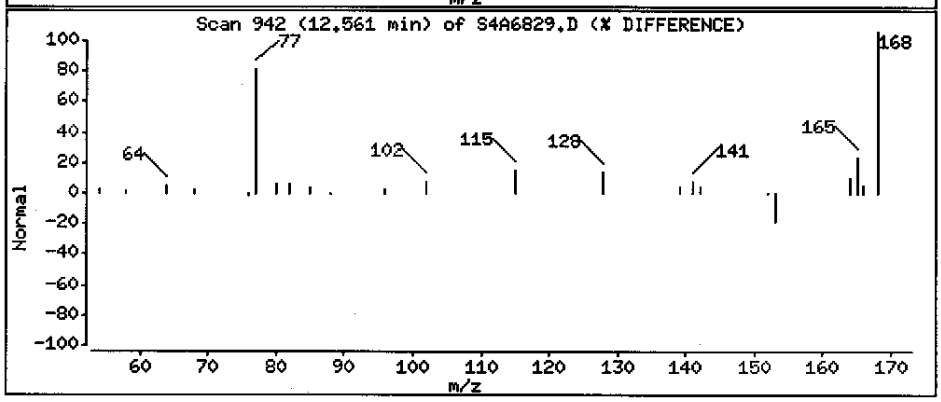
Column phase: DB-5MS Column diameter: 0.25

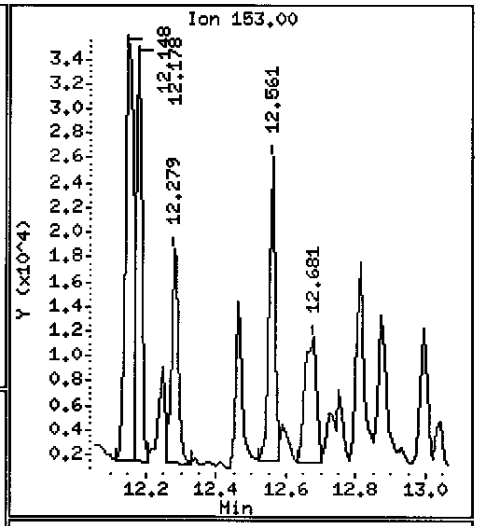
13 Acenaphthene Concentration: 0.31 ug/L

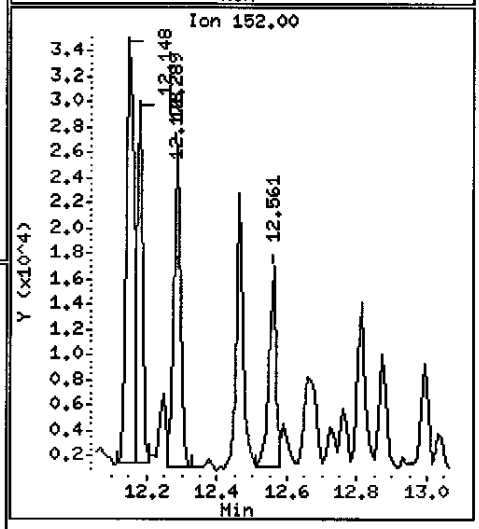












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6829.D

Date : 28-JAN-2005 21:39

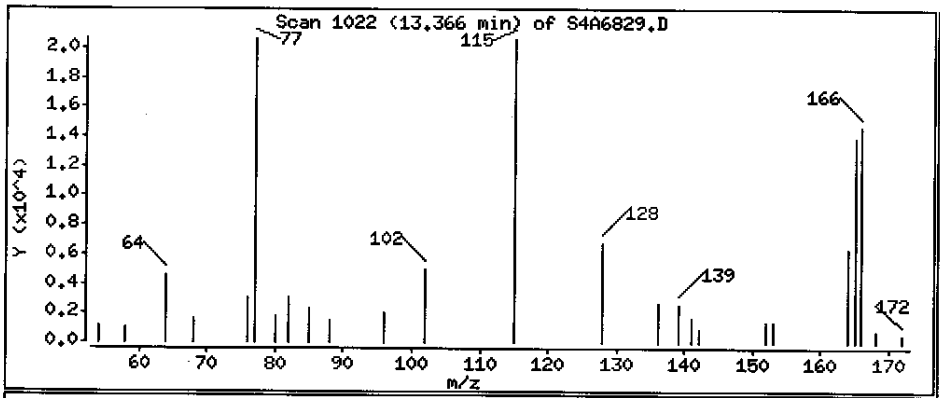
Client ID: CEF-CS1A-01 Instrument: S4.i

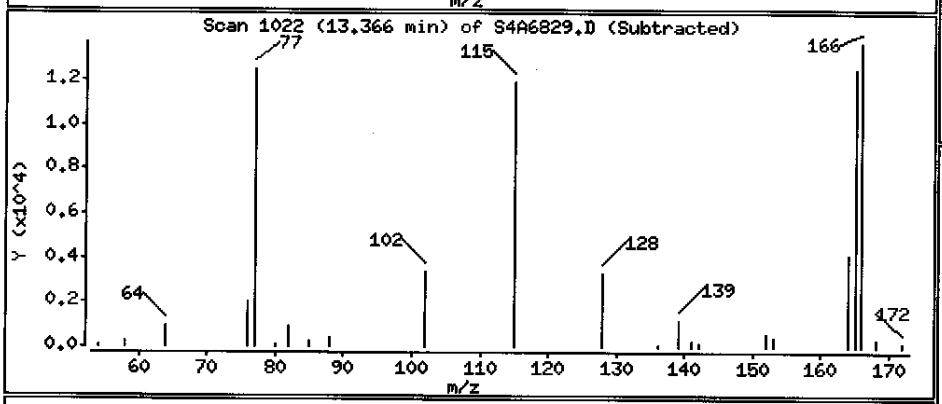
Sample Info: D0058-07B,,16595,,

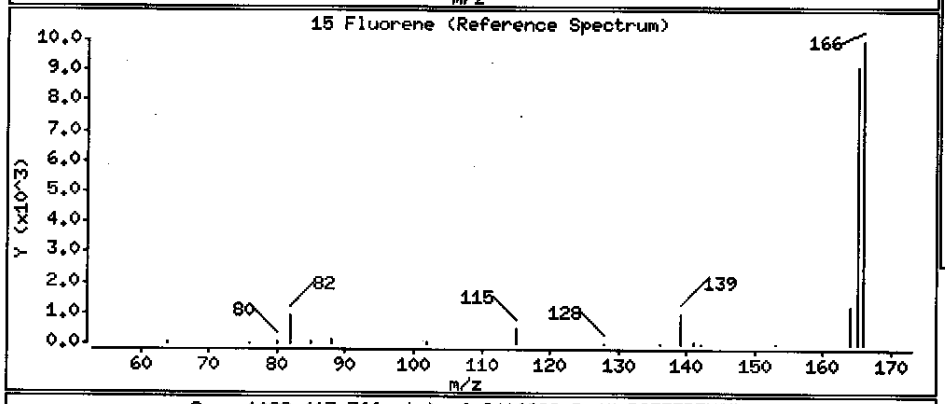
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

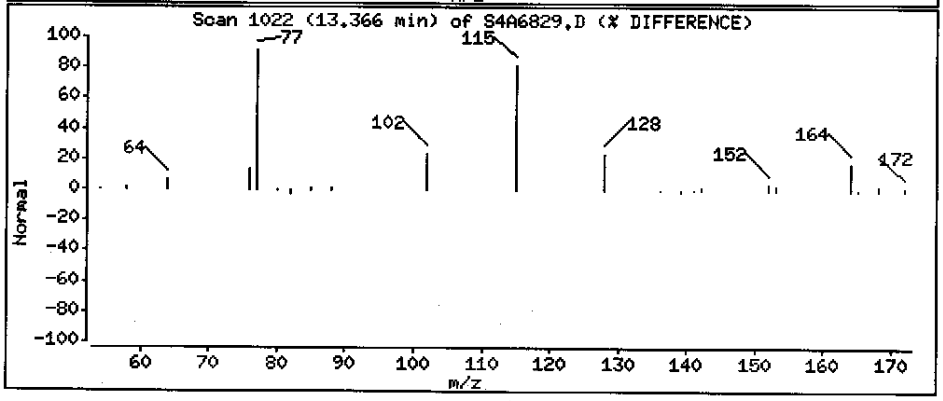
Column phase: DB-5MS Column diameter: 0.25

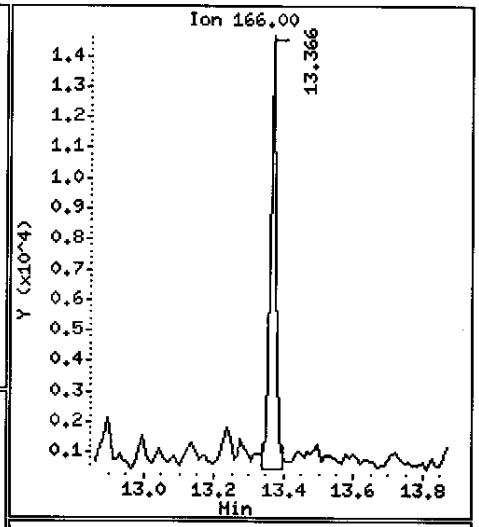
15 Fluorene Concentration: 0.16 ug/L

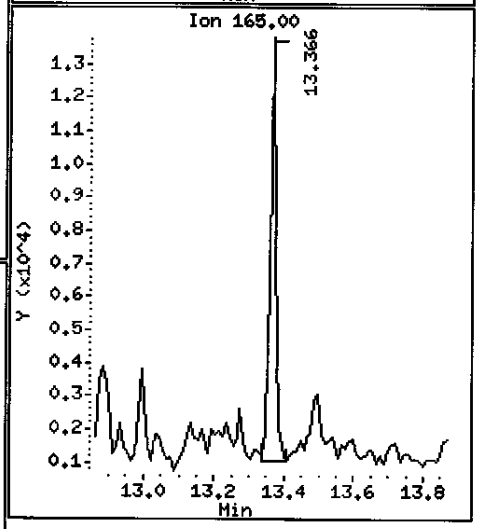












1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
CEF-CS1A-01DL

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-07BDL
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6843A.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 11:15
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 10.00 Analyst: awieczorek
Date Analyzed: 01/31/05 Time: 15:03
Prep Batch: 16595
Analytical Run: S4_050131A
Instrument ID: S4
TestCode: PAH_SIM_W

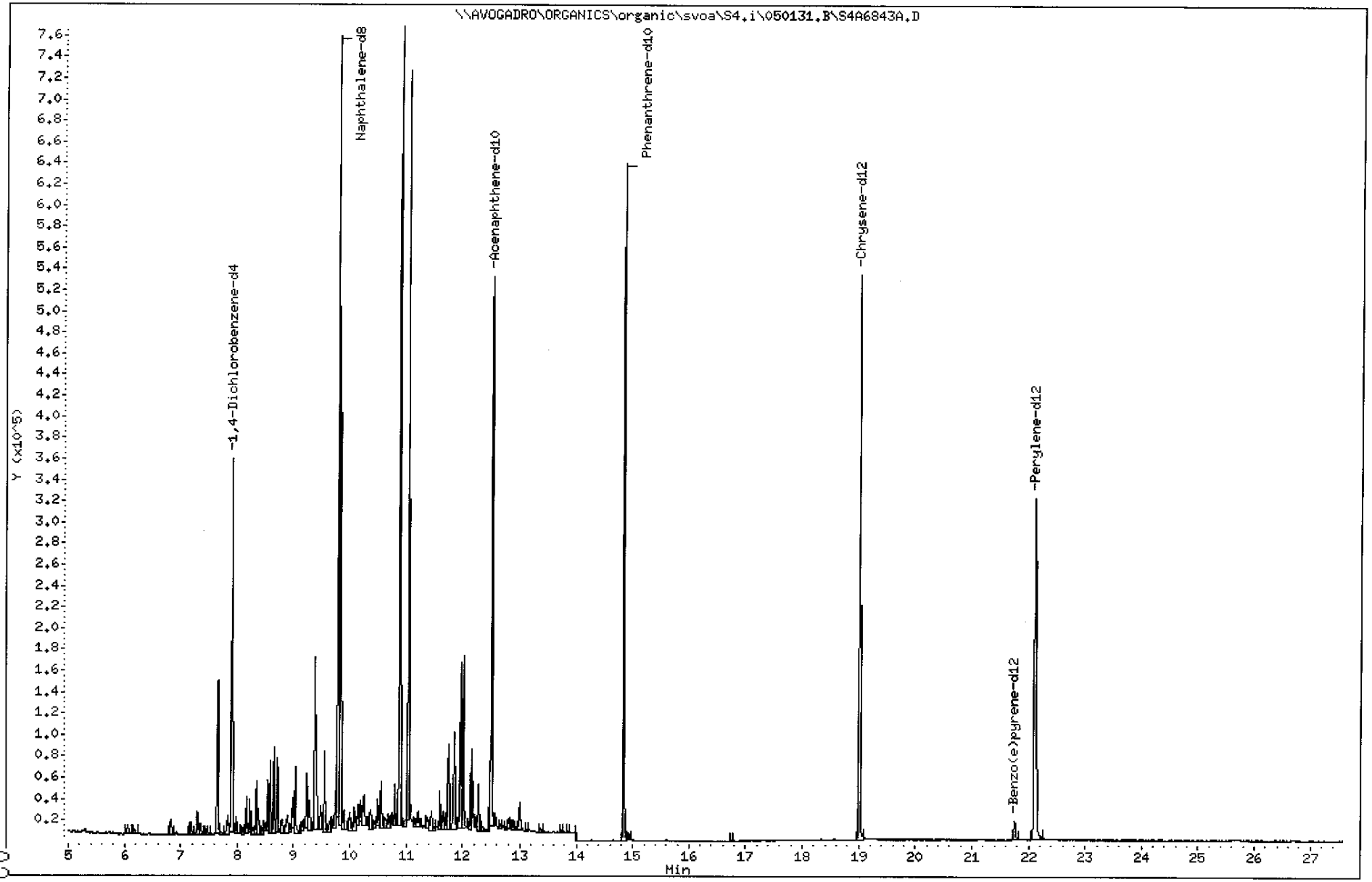
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**25**	**D**	**0.27**	**1.0**
91-57-6	**2-Methylnaphthalene**	**42**	**D**	**0.41**	**1.0**
208-96-8	Acenaphthylene	1.0	U	0.097	1.0
83-32-9	Acenaphthene	1.0	U	0.27	1.0
86-73-7	Fluorene	1.0	U	0.23	1.0
85-01-8	Phenanthrene	1.0	U	0.37	1.0
120-12-7	Anthracene	1.0	U	0.25	1.0
206-44-0	Fluoranthene	1.0	U	0.46	1.0
129-00-0	Pyrene	1.0	U	0.30	1.0
56-55-3	Benzo(a)anthracene	1.0	U	0.18	1.0
218-01-9	Chrysene	1.0	U	0.18	1.0
205-99-2	Benzo(b)fluoranthene	1.0	U	0.20	1.0
207-08-9	Benzo(k)fluoranthene	1.0	U	0.21	1.0
50-32-8	Benzo(a)pyrene	1.0	U	0.12	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	0.20	1.0
53-70-3	Dibenzo(a,h)anthracene	1.0	U	0.15	1.0
191-24-2	Benzo(g,h,i)perylene	1.0	U	0.16	1.0
90-12-0	**1-Methylnaphthalene**	**40**	**D**	**0.41**	**1.0**

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6843A.D
Date : 31-JAN-2005 15:03
Client ID: CEF-CS1A-01DL
Sample Info: D0058-07BDL,,16595,,10
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6843A.D
Report Date: 04-Feb-2005 08:37

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6843A.D
Lab Smp Id: D0058-07BDL Client Smp ID: CEF-CS1A-01DL
Inj Date : 31-JAN-2005 15:03
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-07BDL,,16595,,10
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\s4_pah_sim.m
Meth Date : 31-Jan-2005 12:23 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 2
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.909	(1.000)	270187	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	866122	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	411940	2.48334	25
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	414858	4.15871	42
8 1-Methylnaphthalene	142	11.030	11.030	(1.126)	383637	3.98109	40
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	456824	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	747886	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	651992	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.754	21.748	(0.984)	30483	0.25608	2.6
* 30 Perylene-d12	264	22.113	22.108	(1.000)	545224	5.00000	

02/04/05

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6843A.D

Date : 31-JAN-2005 15:03

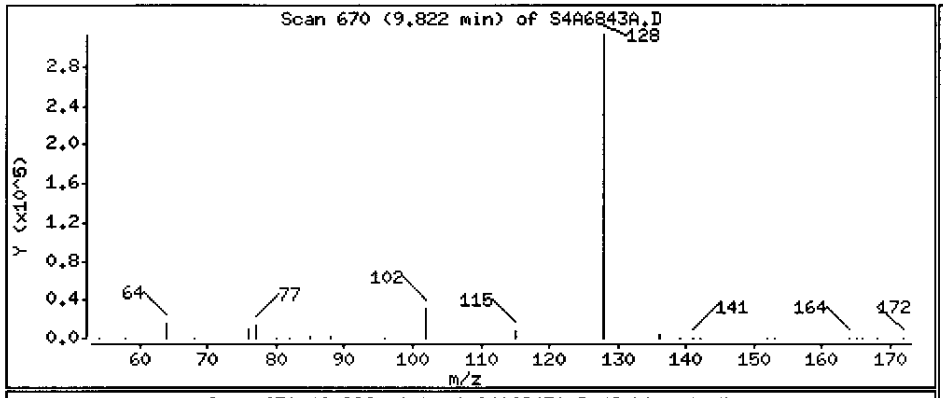
Client ID: CEF-CS1A-01DL | Instrument: S4.i

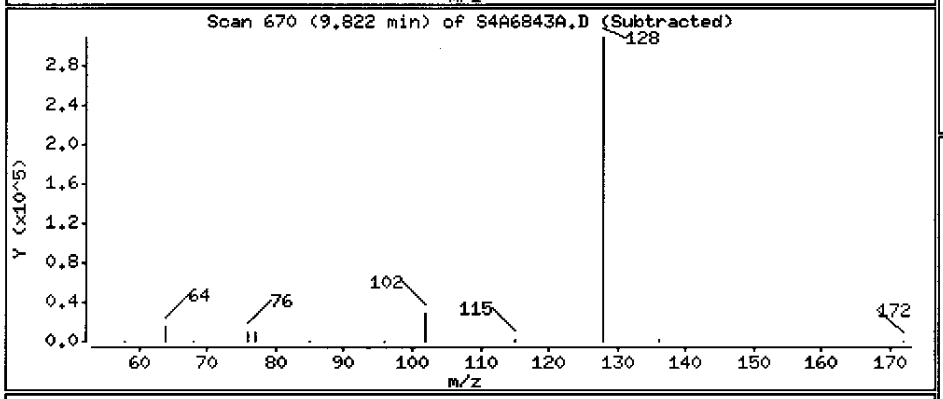
Sample Info: D0058-07BDL,,16595,,10

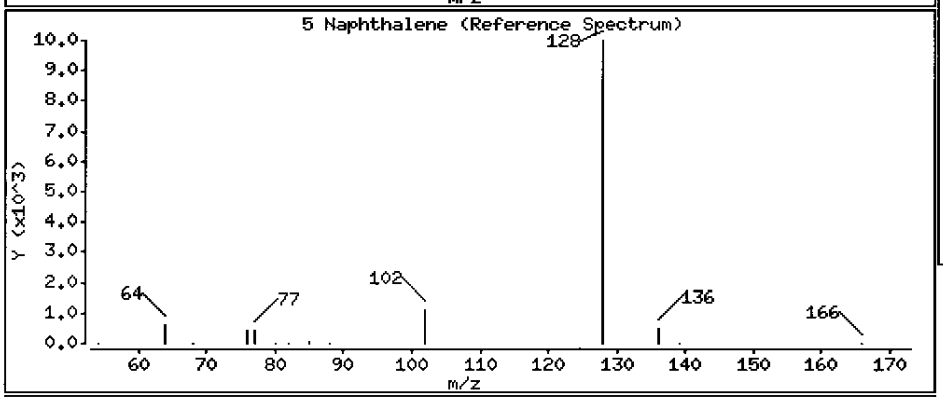
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

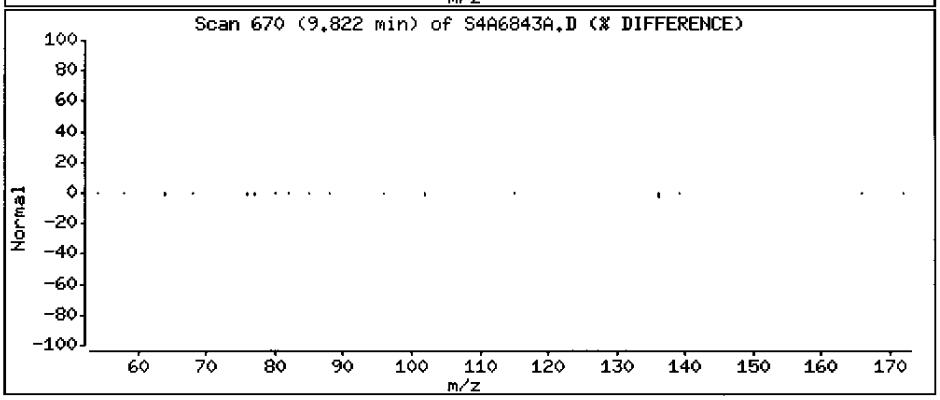
Column phase: DB-5MS | Column diameter: 0.25

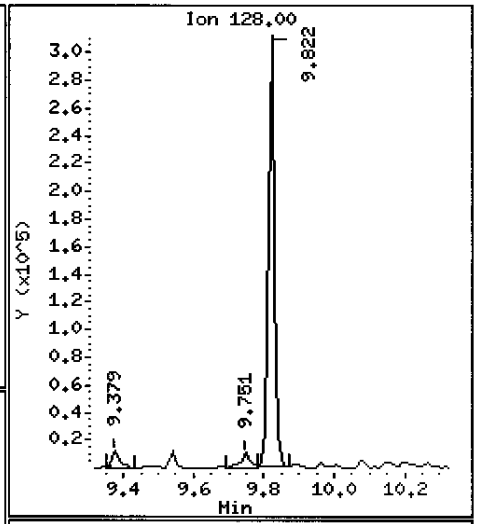
5 Naphthalene | Concentration: 25 ug/L

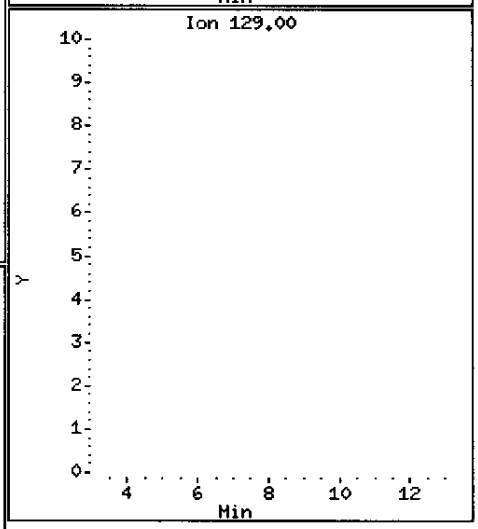












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6843A.D

Date : 31-JAN-2005 15:03

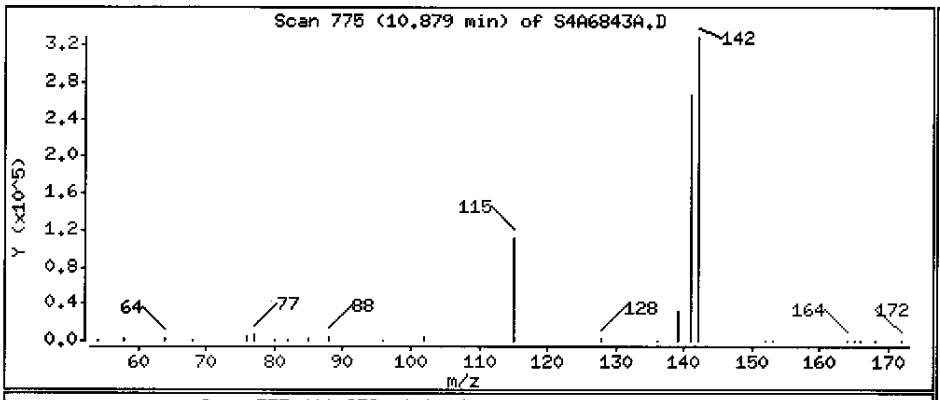
Client ID: CEF-CS1A-01DL | Instrument: S4.i

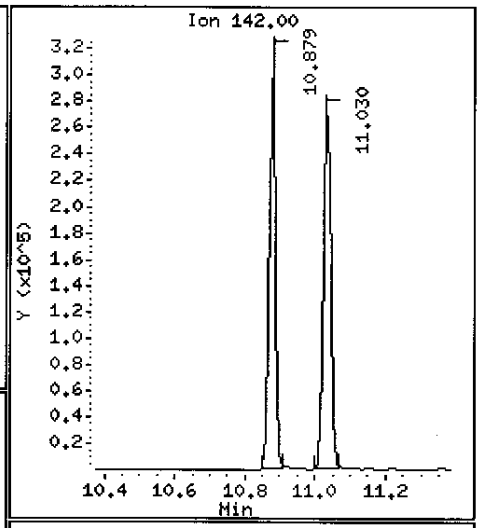
Sample Info: D0058-07BDL,,16595,,10

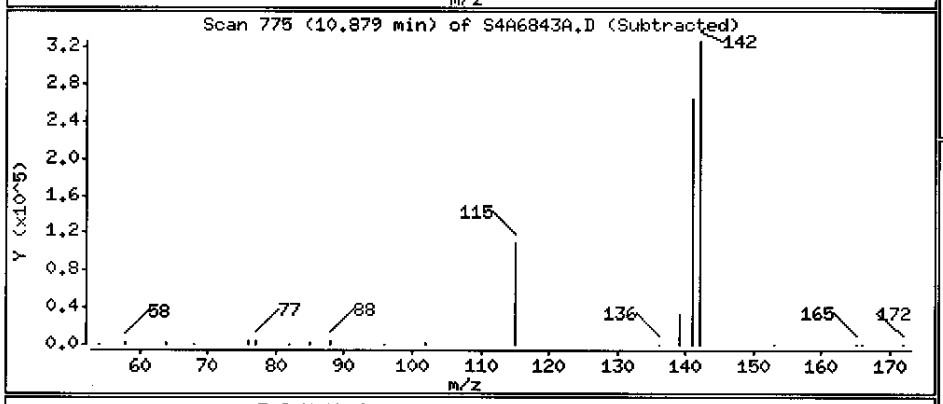
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

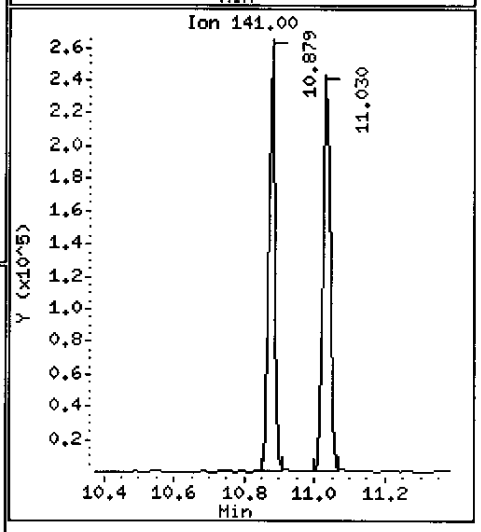
Column phase: DB-5MS | Column diameter: 0.25

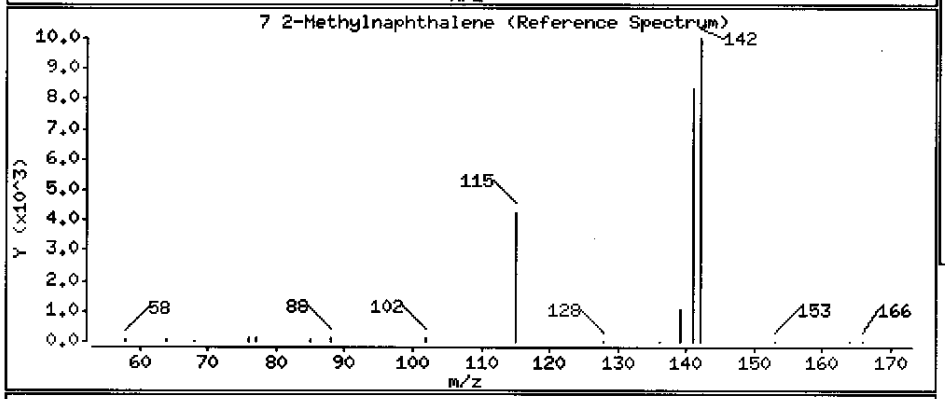
7 2-Methylnaphthalene | Concentration: 42 ug/L

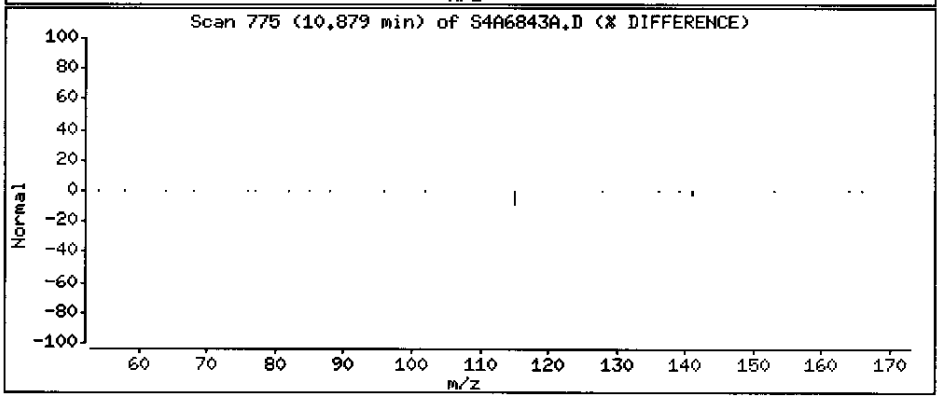












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6843A.D

Date : 31-JAN-2005 15:03

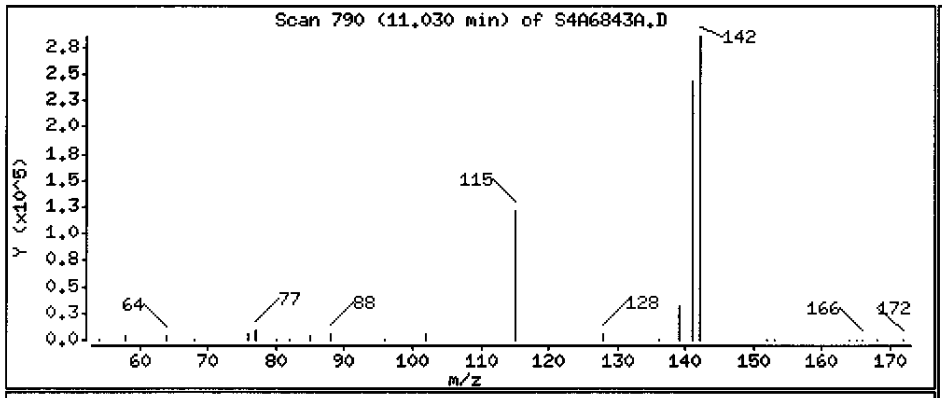
Client ID: CEF-CS1A-01DL | Instrument: S4.i

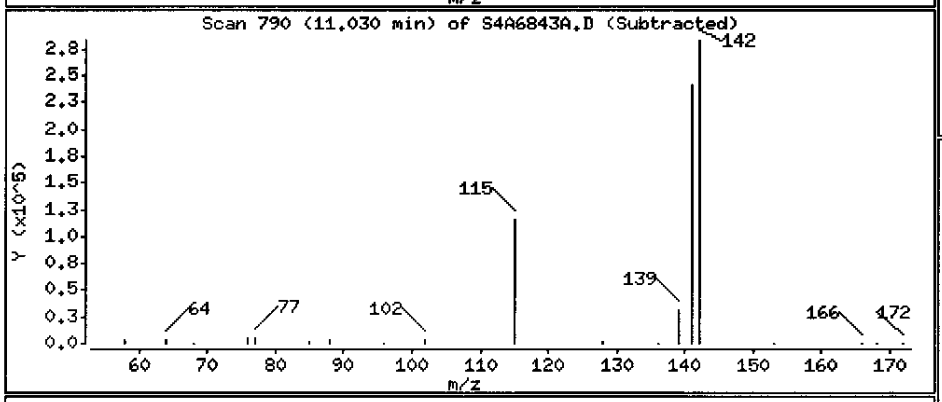
Sample Info: D0058-07BDL,,16595,,10

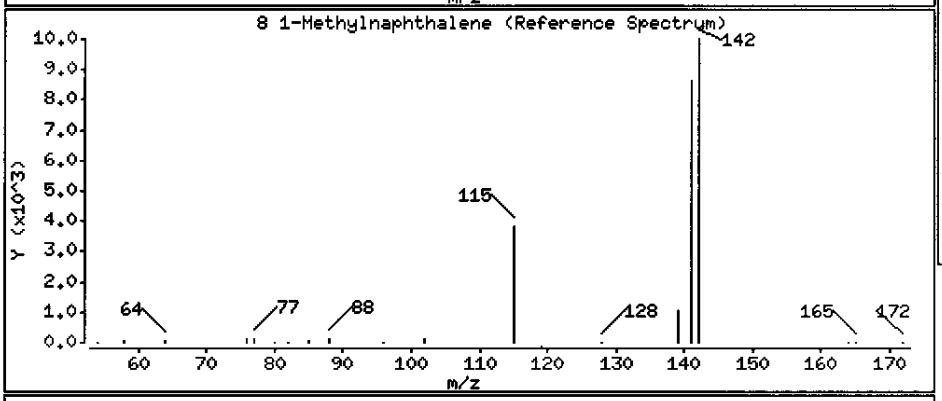
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

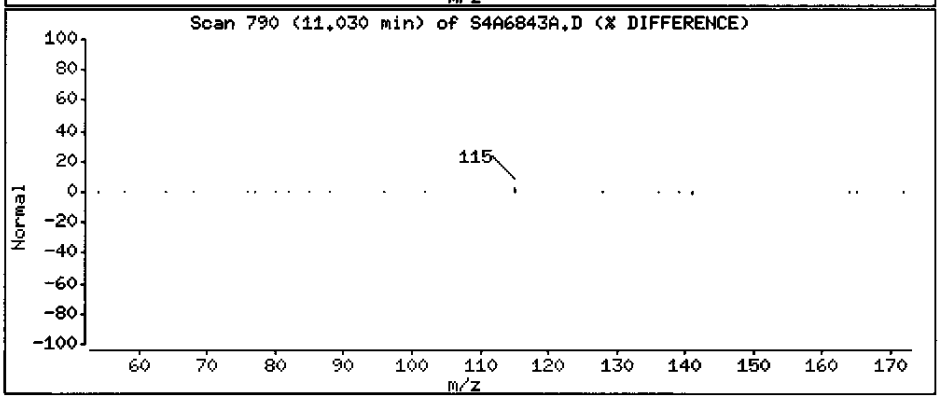
Column phase: DB-5MS | Column diameter: 0.25

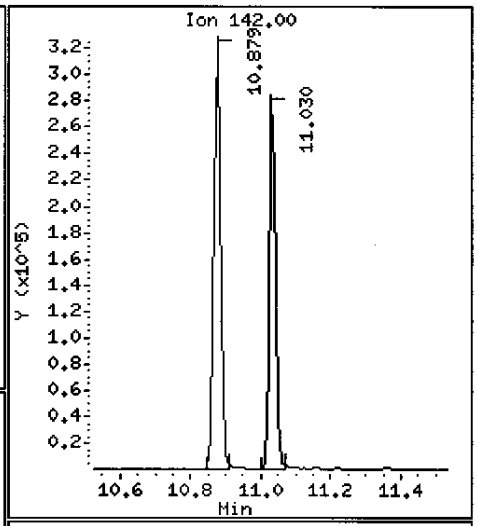
8 1-Methylnaphthalene | Concentration: 40 ug/L

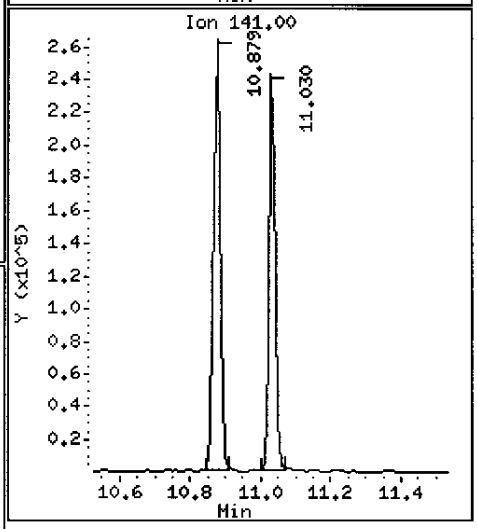












1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS10-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-08B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6830.D

Level: (low/med) LOW | Date Collected: 01/19/05 | Time: 14:17

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 | Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 22:16

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

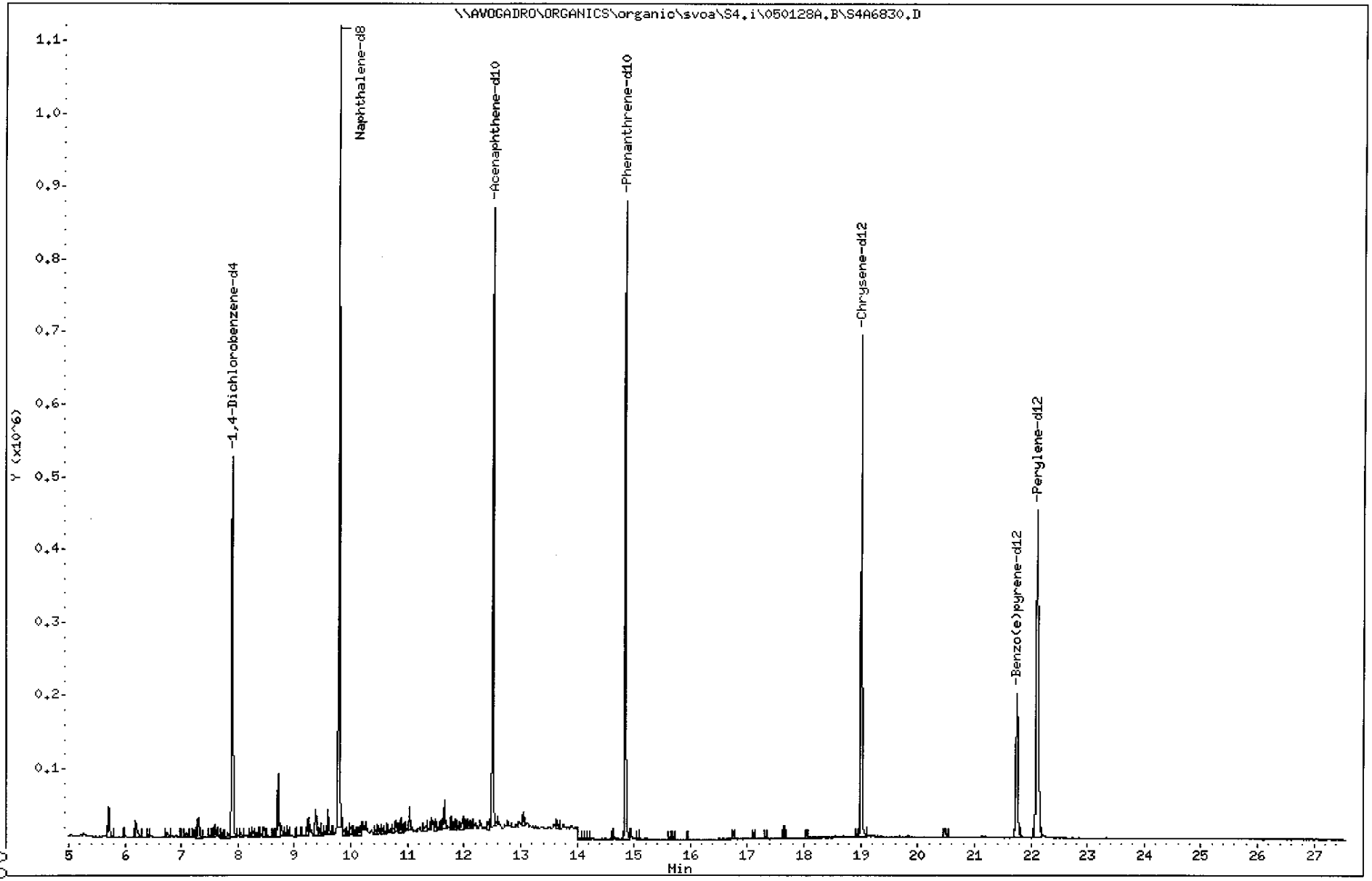
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**0.10**		**0.041**	**0.10**

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6830.D
Date : 28-JAN-2005 22:16
Client ID: CEF-CS10-01
Sample Info: D0058-08B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0278

Data File: S4A6830.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6830.D
Lab Smp Id: D0058-08B Client Smp ID: CEF-CS10-01
Inj Date : 28-JAN-2005 22:16
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-08B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	434868	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1300280	5.00000	
8 1-Methylnaphthalene	142	11.030	11.030	(1.126)	14616	0.10103	0.10
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	676995	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	1037692	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	873641	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	315353	1.91463	1.9
* 30 Perylene-d12	264	22.108	22.108	(1.000)	754413	5.00000	

02/04/05 AW

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6830.D

Date : 28-JAN-2005 22:16

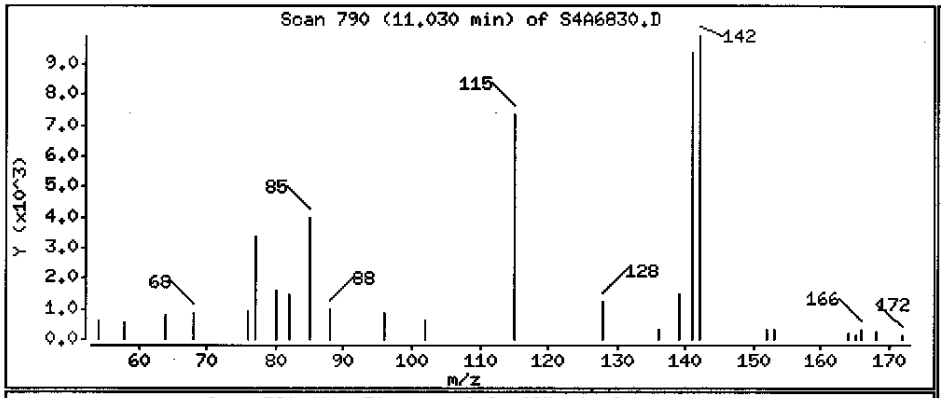
Client ID: CEF-CS10-01 | Instrument: S4.i

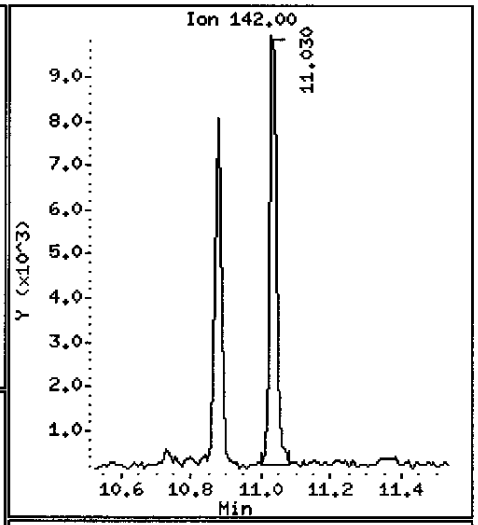
Sample Info: D0058-08B,,16595,,

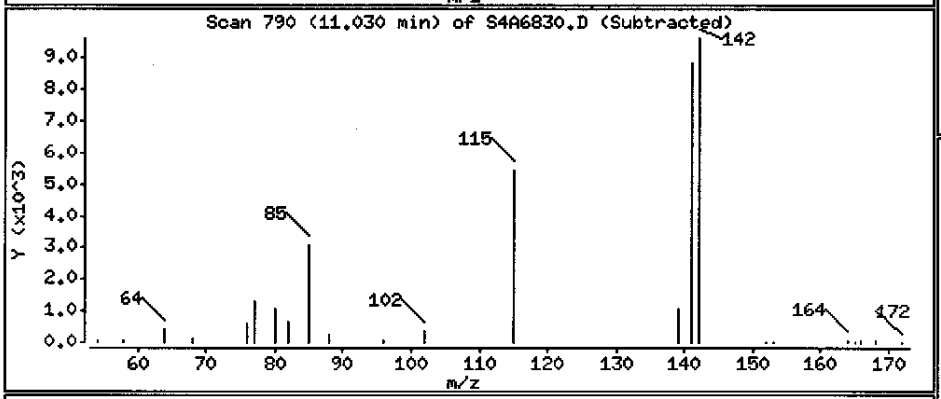
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

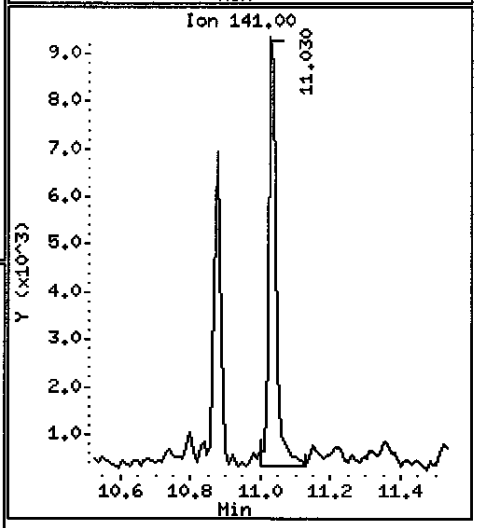
Column phase: DB-5MS | Column diameter: 0.25

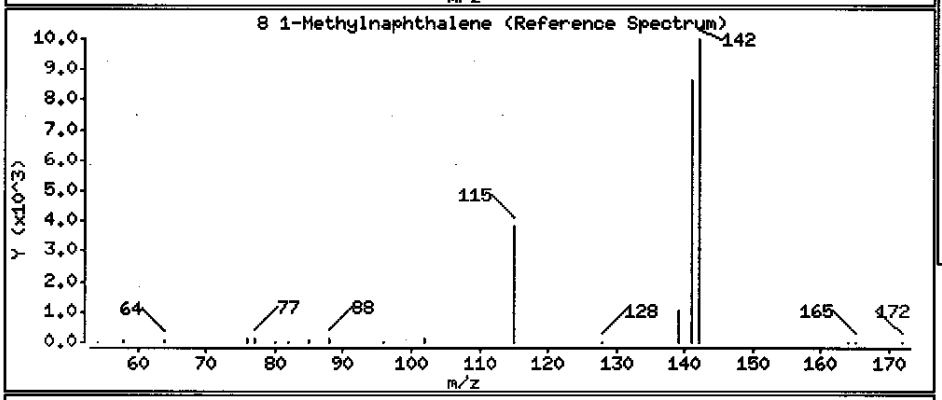
8 1-Methylnaphthalene | Concentration: 0.10 ug/L

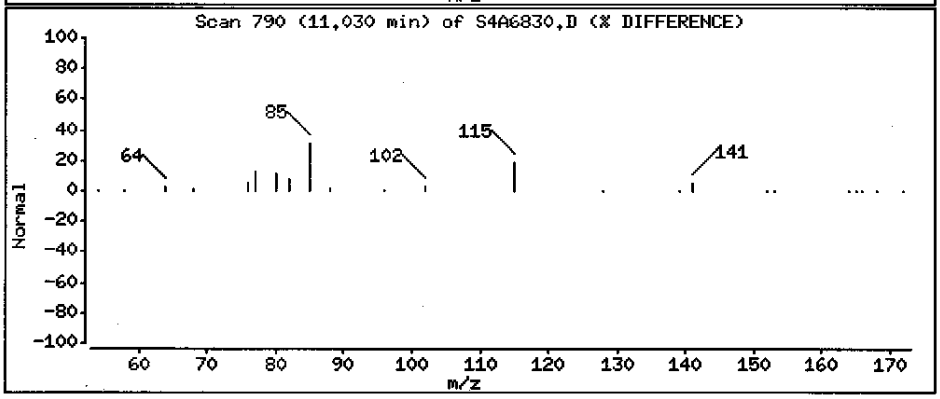












1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS8-01

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-09B

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6831.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 13:19

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek | Date Analyzed: 01/28/05 Time: 22:54

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

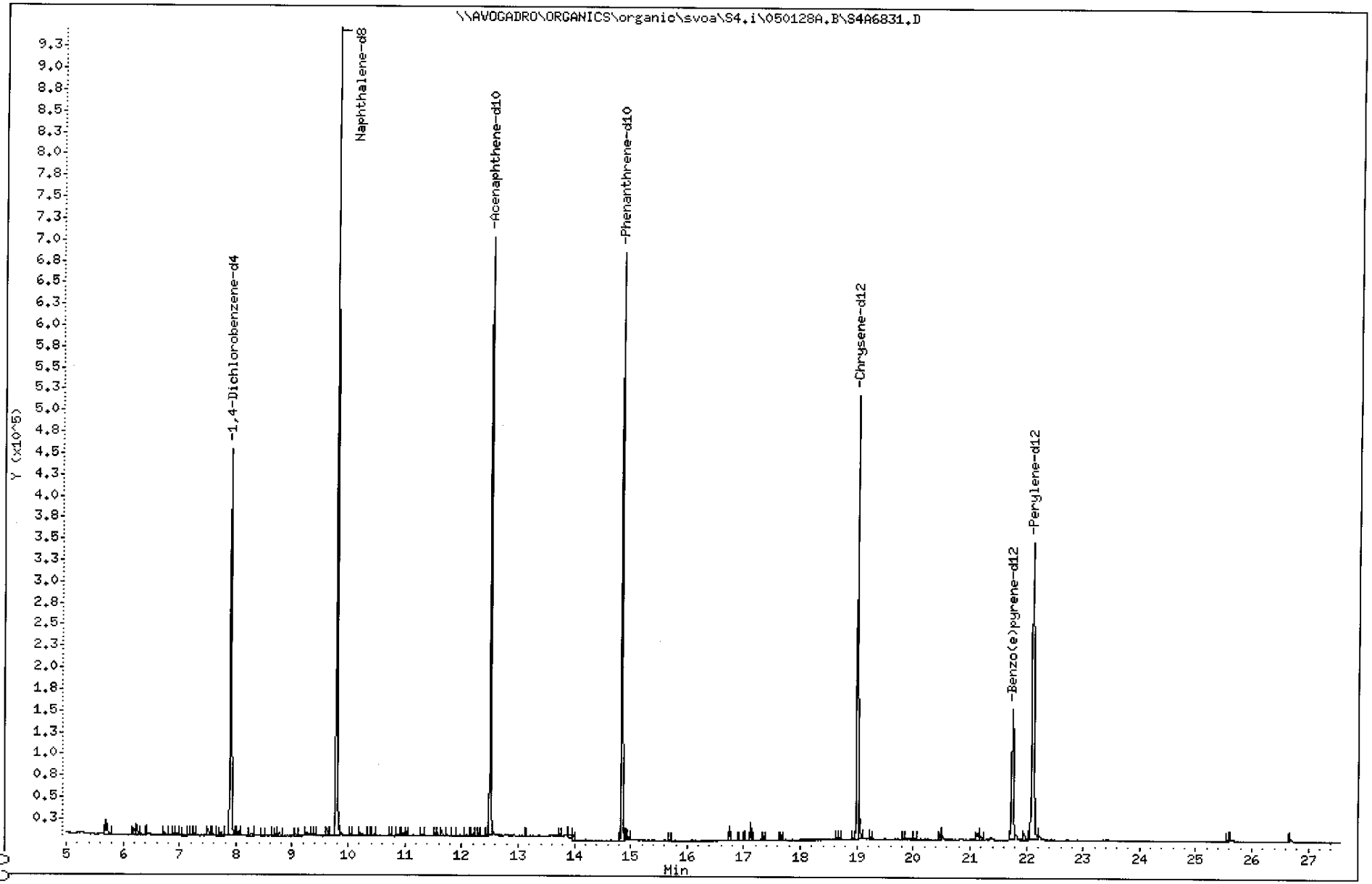
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	**Fluoranthene**	**0.10**		**0.046**	**0.10**
129-00-0	**Pyrene**	**0.11**		**0.030**	**0.10**
56-55-3	**Benzo(a)anthracene**	**0.11**		**0.018**	**0.10**
218-01-9	**Chrysene**	**0.15**		**0.018**	**0.10**
205-99-2	**Benzo(b)fluoranthene**	**0.11**		**0.020**	**0.10**
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D
Date : 28-JAN-2005 22:54
Client ID: CEF-CS8-01
Sample Info: D0058-09B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0282

Data File: S4A6831.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D
Lab Smp Id: D0058-09B Client Smp ID: CEF-CS8-01
Inj Date : 28-JAN-2005 22:54
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-09B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 44
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	375450	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1110438	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	552715	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	811900	5.00000	
20 Fluoranthene	202	16.751	16.751	(1.129)	19963	0.10138	0.10
21 Pyrene	202	17.116	17.116	(0.901)	23074	0.10543	0.10
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	22311	0.11261	0.11
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	668185	5.00000	
25 Chrysene	228	19.048	19.048	(1.002)	28595	0.15409	0.15
26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	19536	0.10795	0.11
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	245930	1.93400	1.9
* 30 Perylene-d12	264	22.108	22.108	(1.000)	582443	5.00000	

02/04/05 KU

KC

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D

Date : 28-JAN-2005 22:54

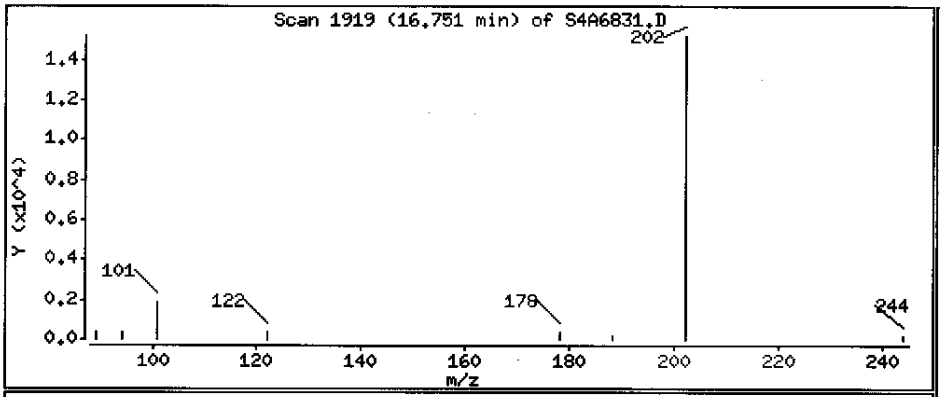
Client ID: CEF-CS8-01 Instrument: S4.i

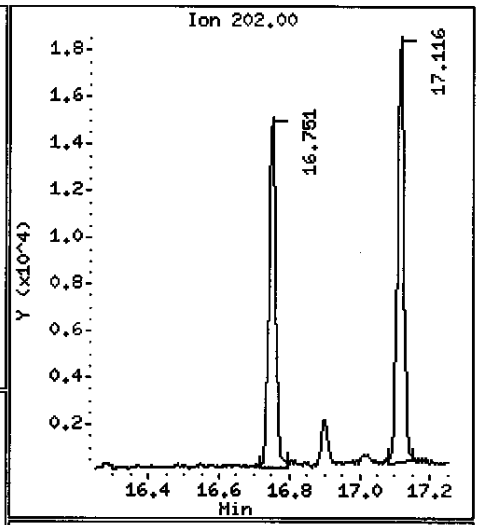
Sample Info: D0058-09B,,16595,,

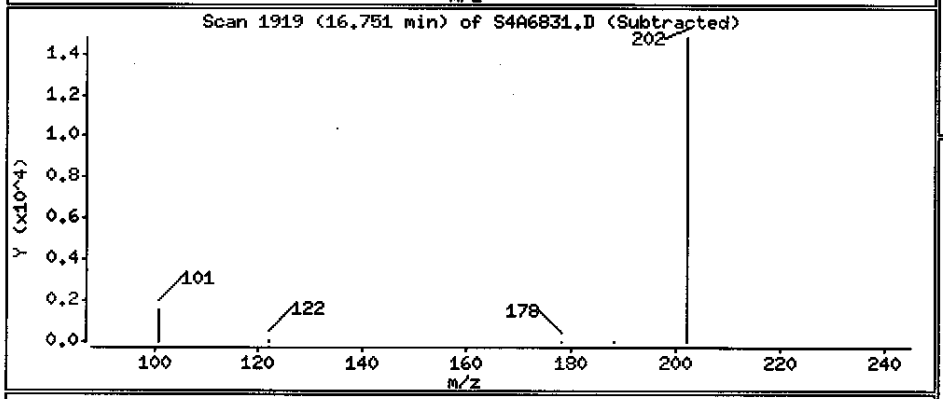
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

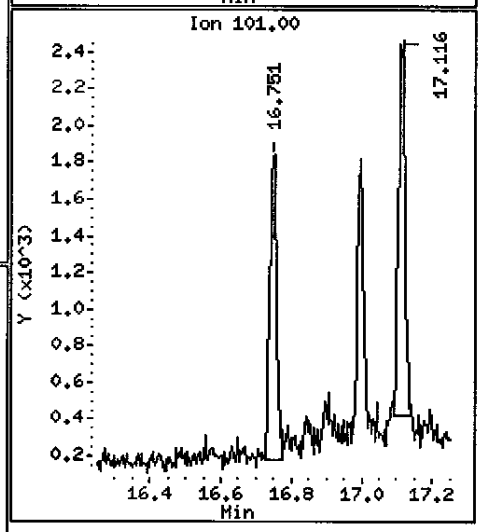
Column phase: DB-5MS Column diameter: 0.25

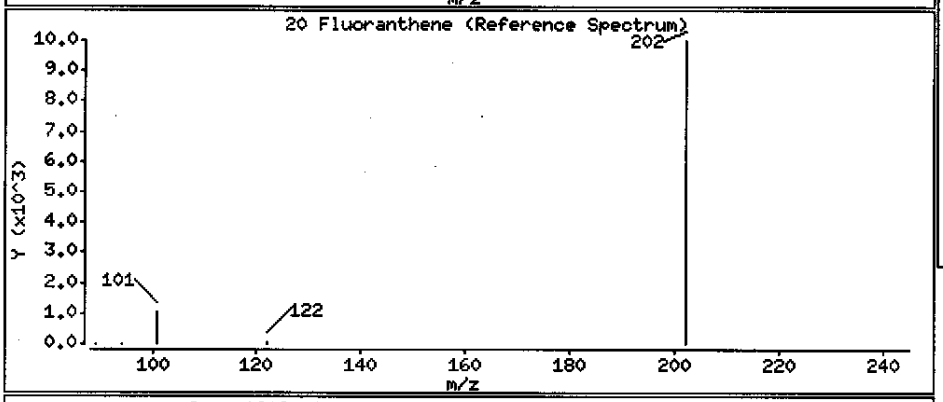
20 Fluoranthene Concentration: 0.10 ug/L

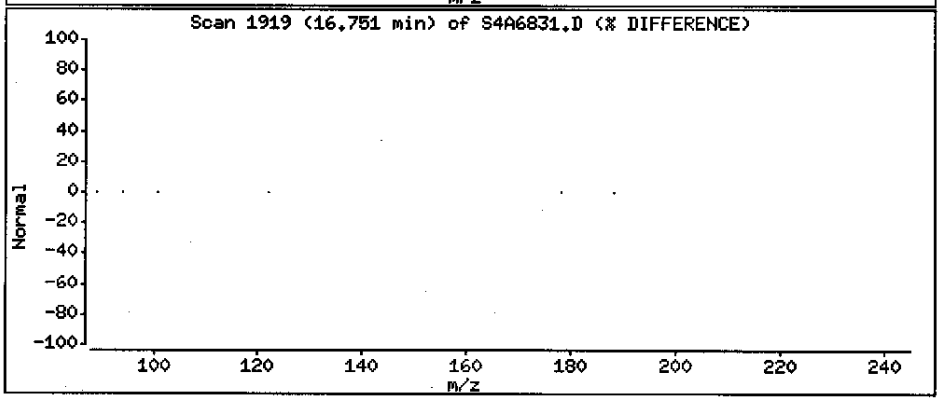












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D

Date : 28-JAN-2005 22:54

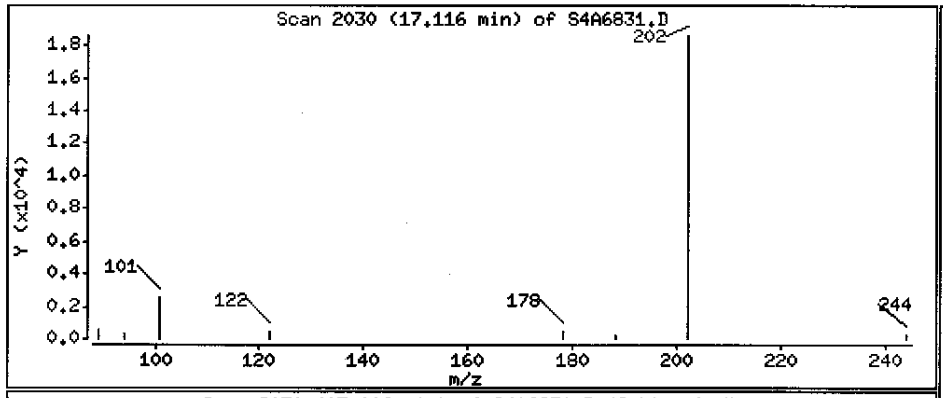
Client ID: CEF-CS8-01 Instrument: S4.i

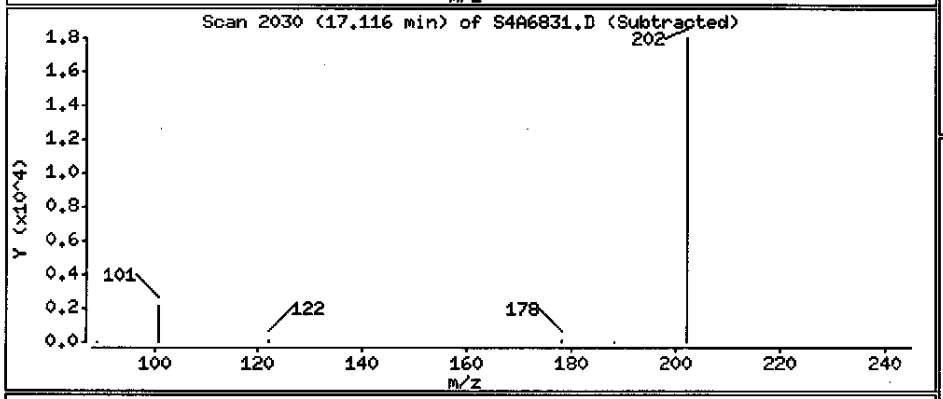
Sample Info: D0058-09B,,16595,,

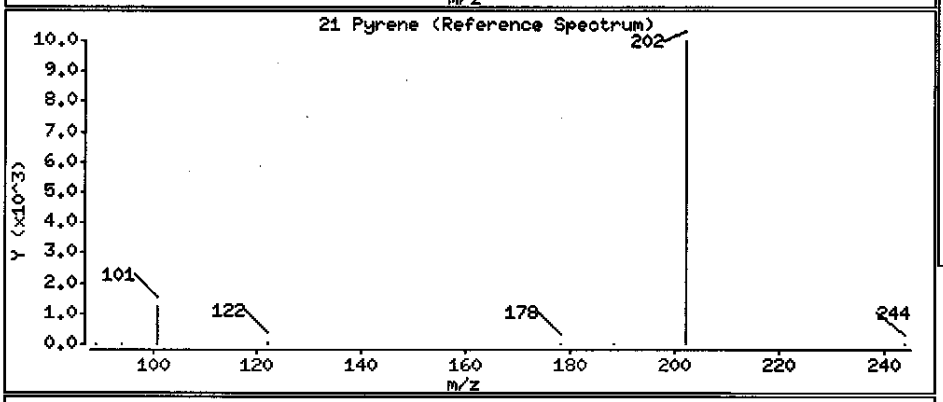
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

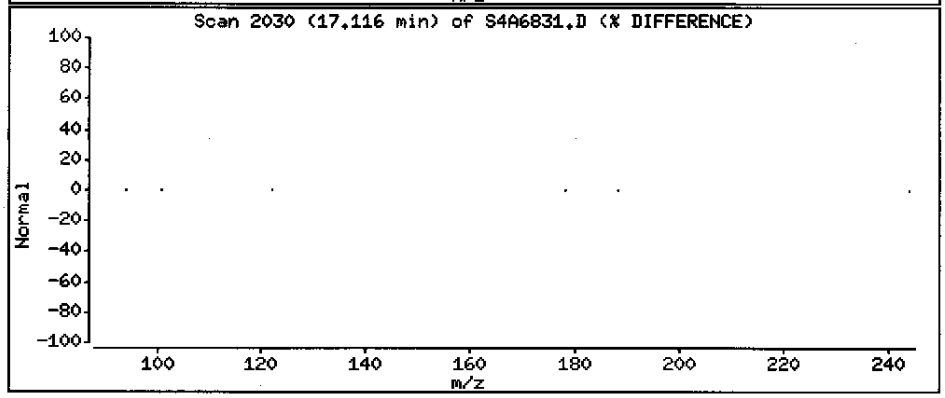
Column phase: DB-5MS Column diameter: 0.25

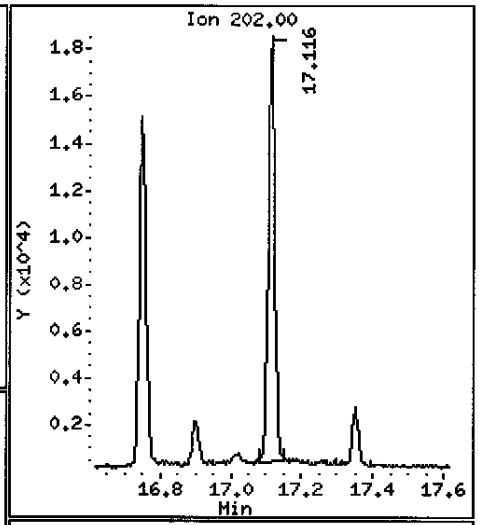
21 Pyrene Concentration: 0.10 ug/L

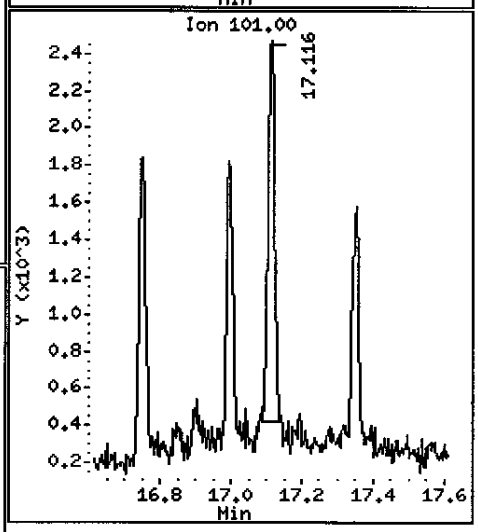












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D

Date : 28-JAN-2005 22:54

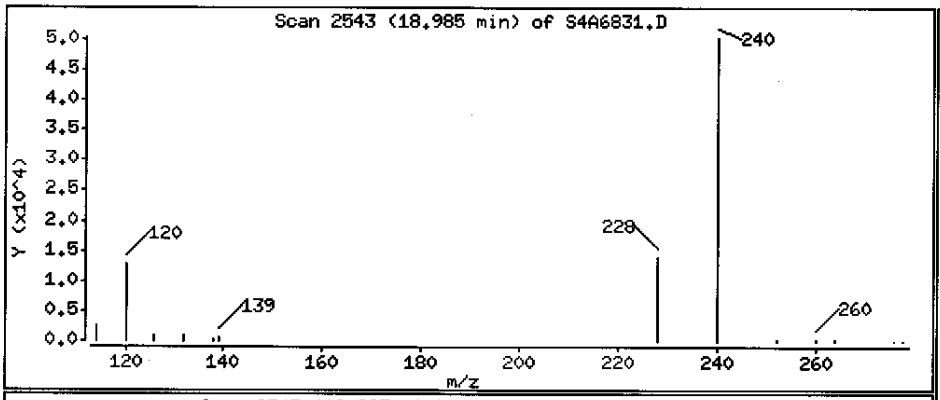
Client ID: CEF-CS8-01 Instrument: S4.i

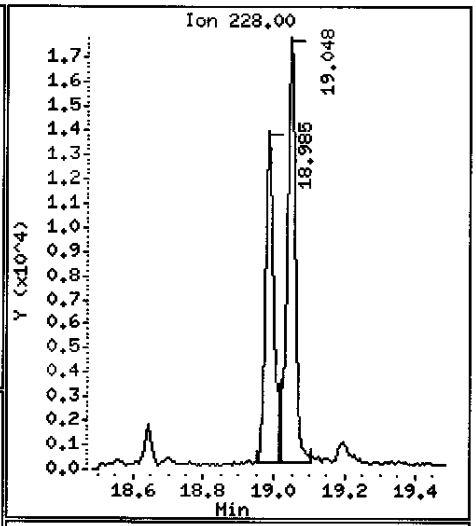
Sample Info: D0058-09B,,16595,,

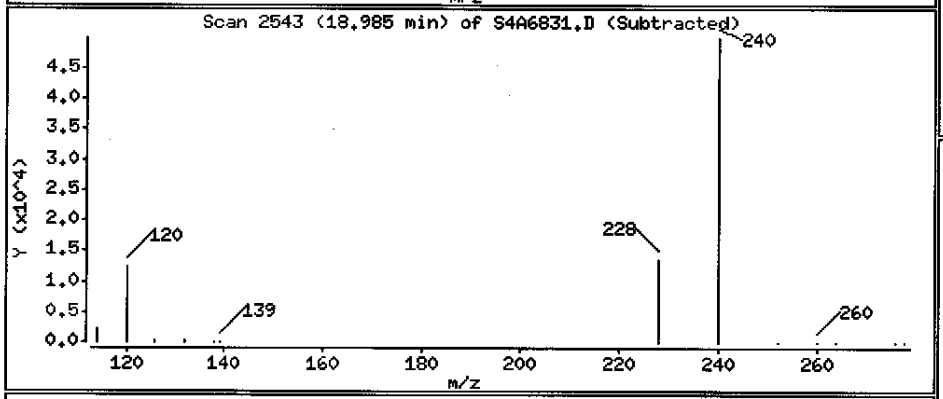
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

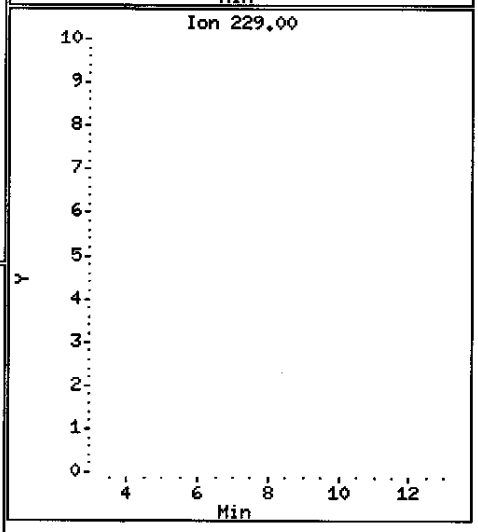
Column phase: DB-5MS Column diameter: 0.25

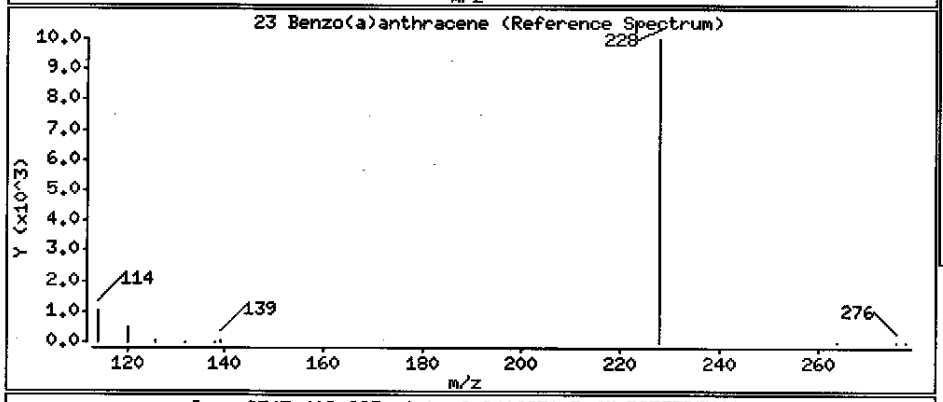
23 Benzo(a)anthracene Concentration: 0.11 ug/L

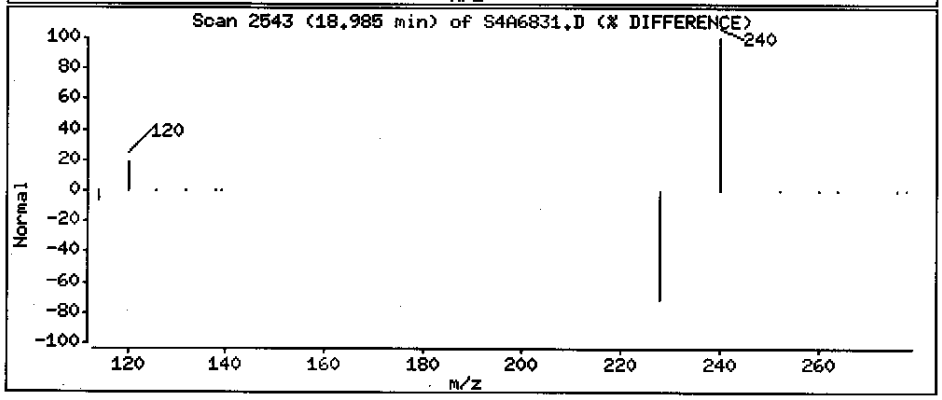












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D

Date : 28-JAN-2005 22:54

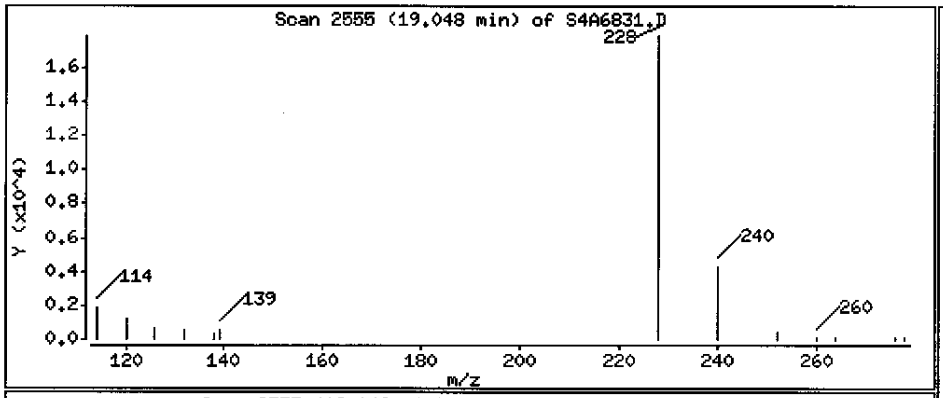
Client ID: CEF-CS8-01 Instrument: S4.i

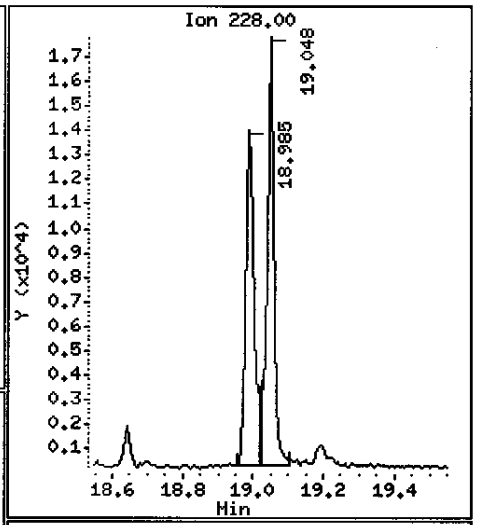
Sample Info: D0058-09B,,16595,,

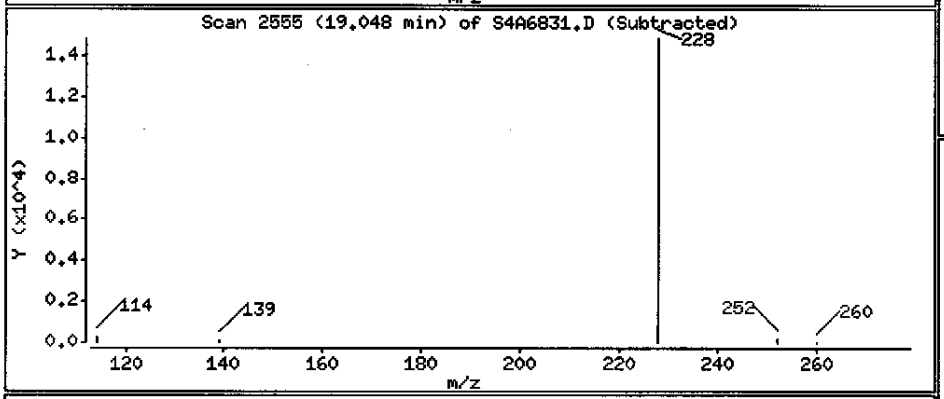
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

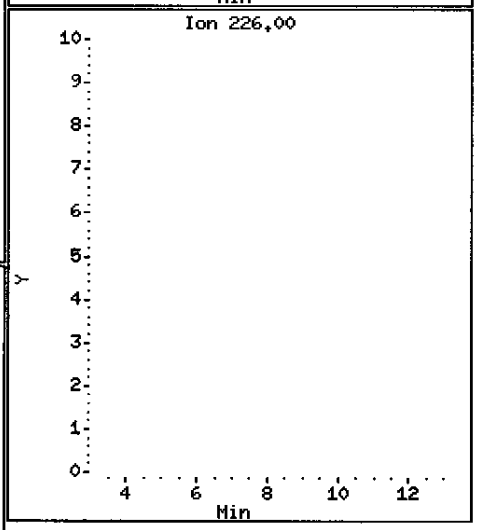
Column phase: DB-5MS Column diameter: 0.25

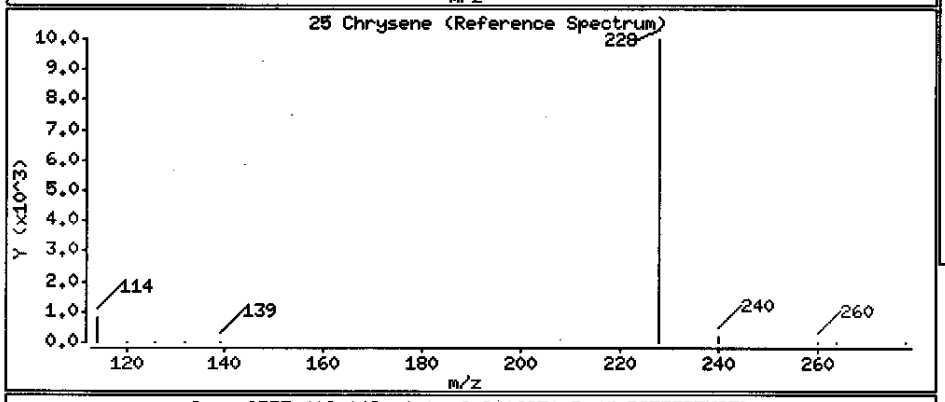
25 Chrysene Concentration: 0.15 ug/L

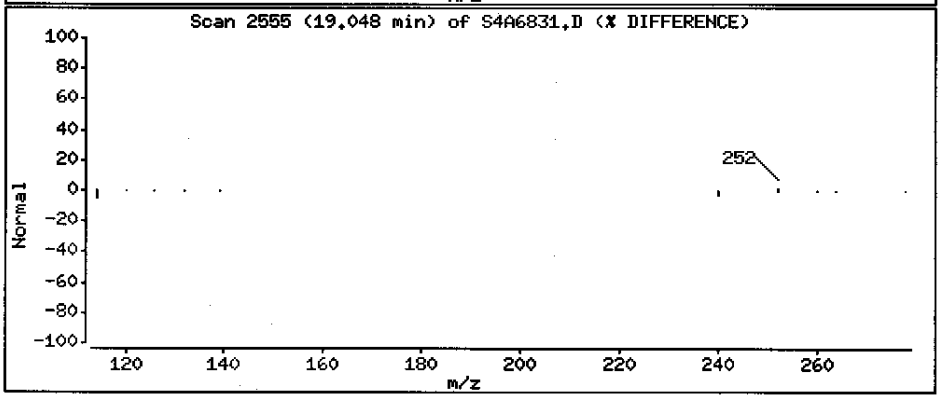












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6831.D

Date : 28-JAN-2005 22:54

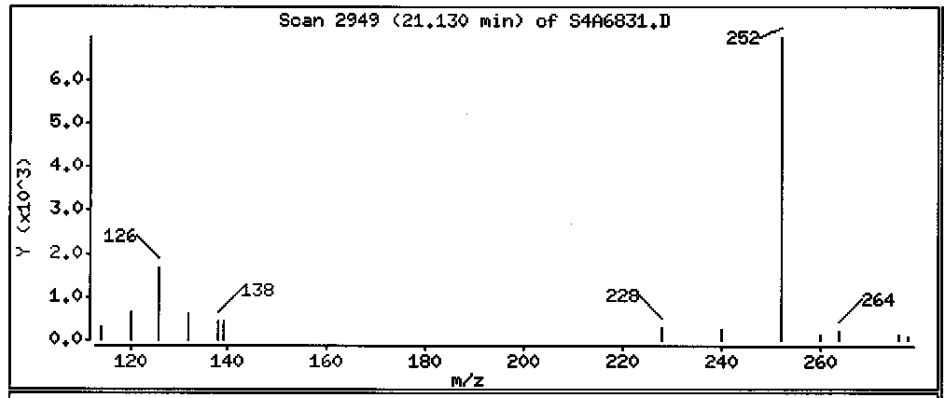
Client ID: CEF-CS8-01 Instrument: S4.i

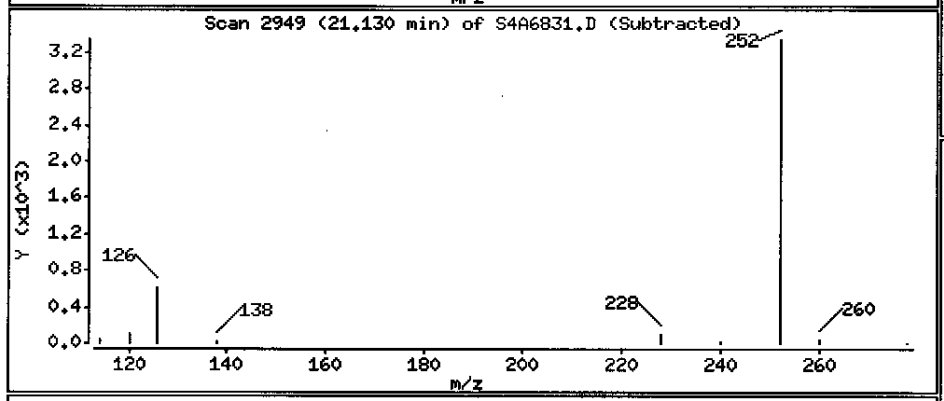
Sample Info: D0058-09B,,16595,,

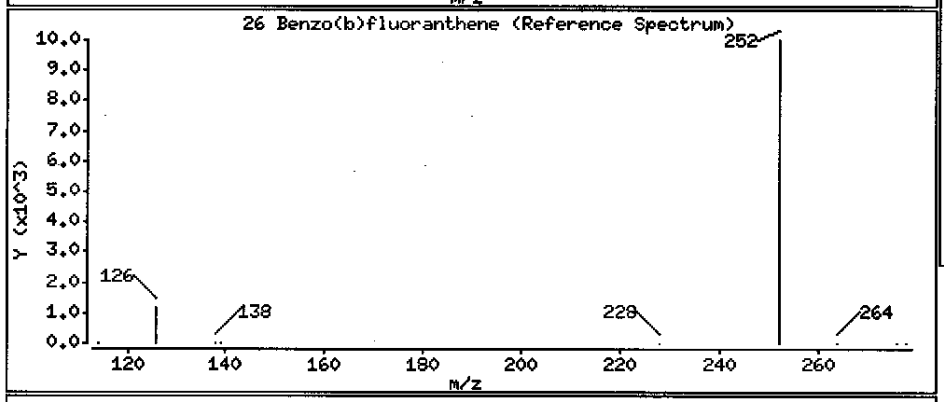
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

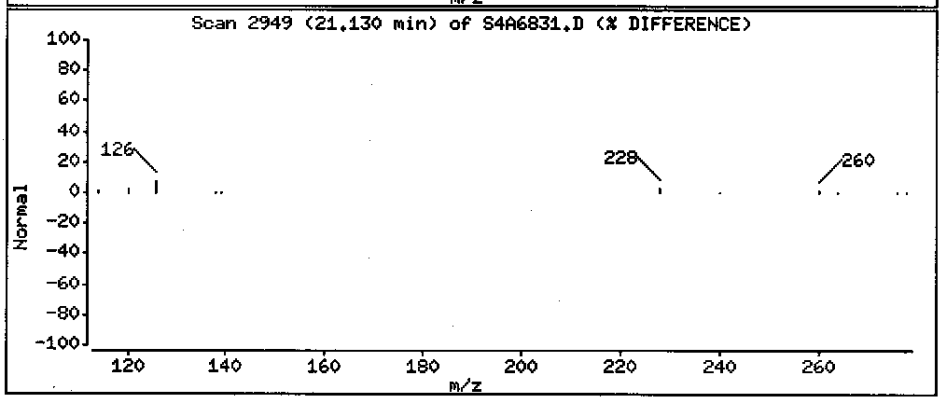
Column phase: DB-5MS Column diameter: 0.25

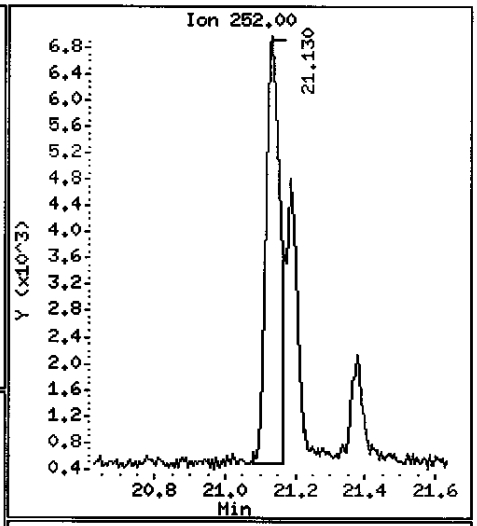
26 Benzo(b)fluoranthene Concentration: 0.11 ug/L

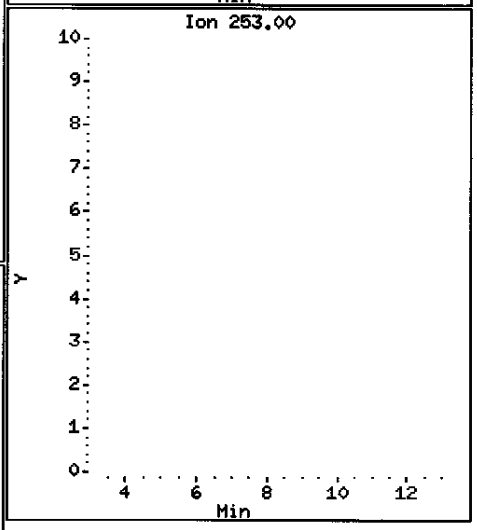












1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS9-01

Lab Name: Mitkem Corporation
Contract:

Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER
Lab Sample ID: D0058-10B

Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6832.D

Level: (low/med) LOW
Date Collected: 01/19/05 Time: 13:48

% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 23:31

Prep Batch: 16595
Analytical Run: S4_050128B

Instrument ID: S4
TestCode: PAH_SIM_W

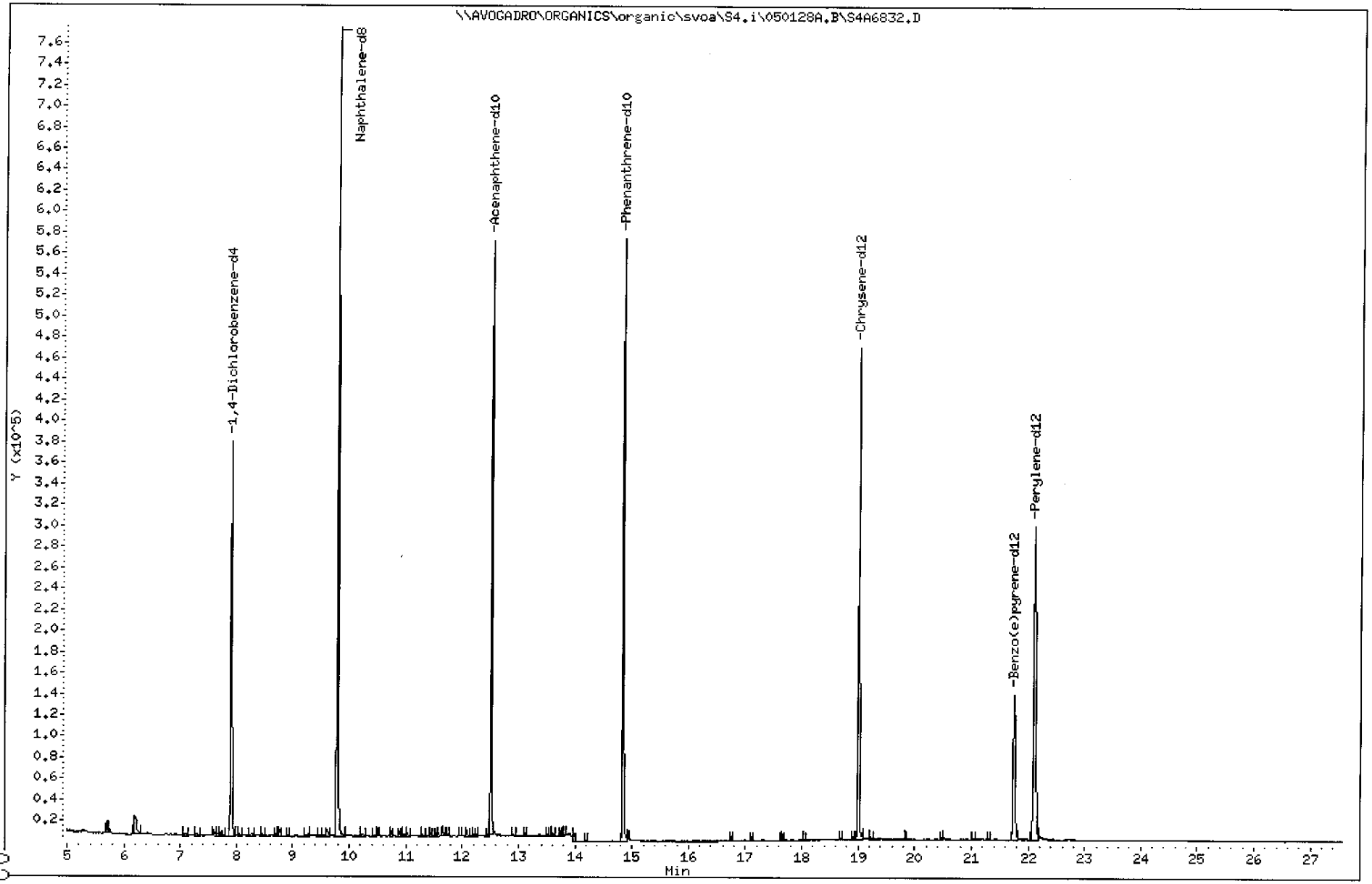
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6832.D
Date : 28-JAN-2005 23:31
Client ID: CEF-CS9-01
Sample Info: D0058-10B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0290

Data File: S4A6832.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6832.D
Lab Smp Id: D0058-10B Client Smp ID: CEF-CS9-01
Inj Date : 28-JAN-2005 23:31
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-10B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	330585	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	899861	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	447275	5.00000	
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	680637	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	587402	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	229160	2.06500	2.1
* 30 Perylene-d12	264	22.108	22.108	(1.000)	508296	5.00000	

02/04/05

KC

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID
CEF-CSDUP-01

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-11B
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6833.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 0:00
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/29/05 Time: 0:08
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

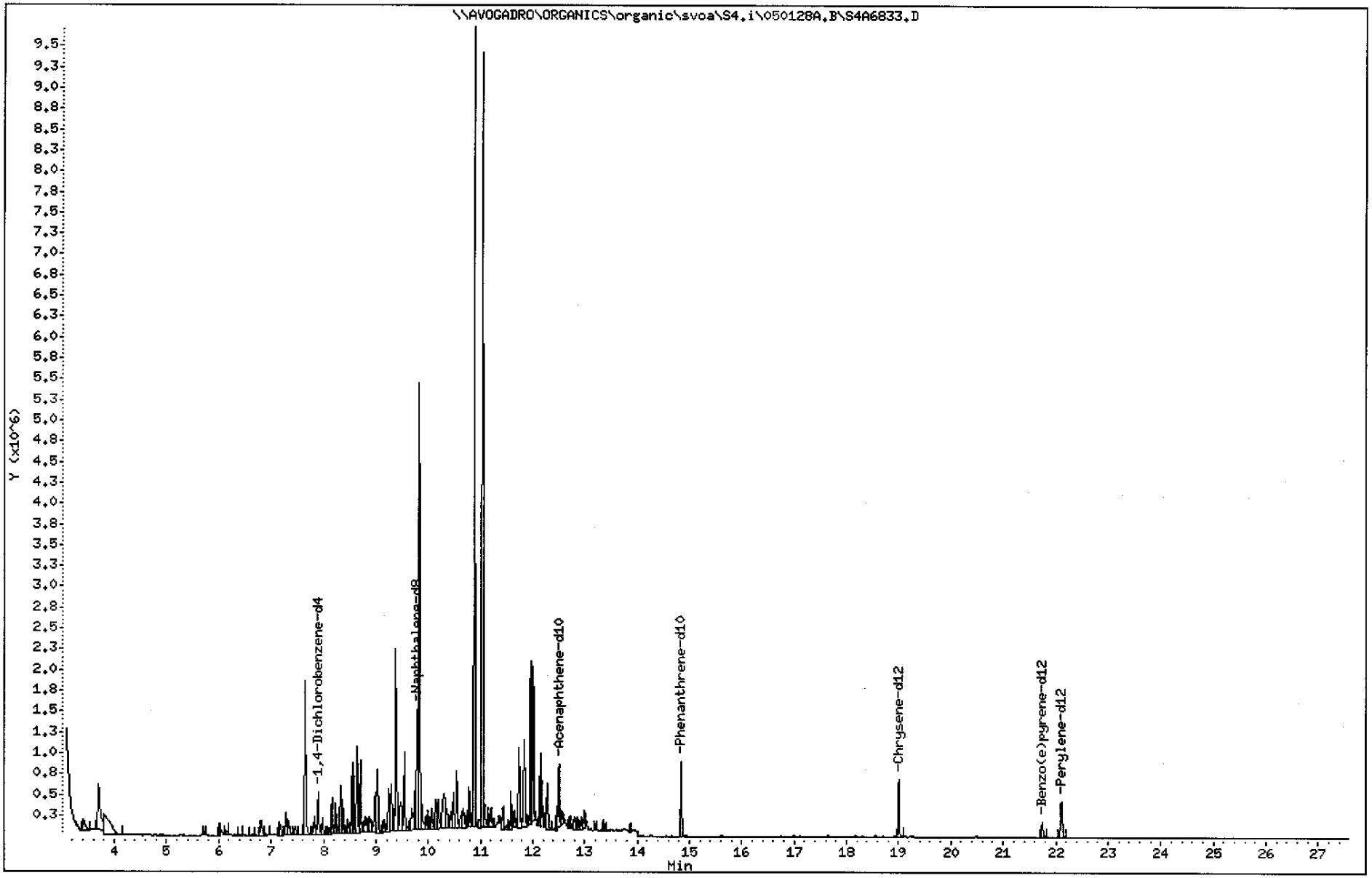
CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**24**	**L**	**0.027**	**0.10**
91-57-6	**2-Methylnaphthalene**	**36**	**L**	**0.041**	**0.10**
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	**Acenaphthene**	**0.33**		**0.027**	**0.10**
86-73-7	**Fluorene**	**0.16**		**0.023**	**0.10**
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	**1-Methylnaphthalene**	**35**	**L**	**0.041**	**0.10**

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6833.D
Date : 29-JAN-2005 00:08
Client ID: CEF-CSDUP-01
Sample Info: D0058-11B,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0293

Data File: S4A6833.D
Report Date: 31-Jan-2005 10:16

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6833.D
Lab Smp Id: D0058-11B Client Smp ID: CEF-CSDUP-01
Inj Date : 29-JAN-2005 00:08
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-11B,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.898	7.899	(1.000)	426312	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	1233042	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	5647113	23.9128	24(A)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	5061233	35.6383	36(A)
8 1-Methylnaphthalene	142	11.040	11.030	(1.128)	4847181	35.3323	35(A)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	667763	5.00000	
13 Acenaphthene	153	12.561	12.561	(1.004)	47758	0.33388	0.33(Q)
15 Fluorene	166	13.366	13.366	(1.068)	25691	0.16073	0.16
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	1008408	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	844778	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	285822	1.81477	1.8
* 30 Perylene-d12	264	22.107	22.108	(1.000)	721392	5.00000	

KL

02/04/05 AJ

Data File: S4A6833.D
Report Date: 31-Jan-2005 10:16

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6833.D

Date : 29-JAN-2005 00:08

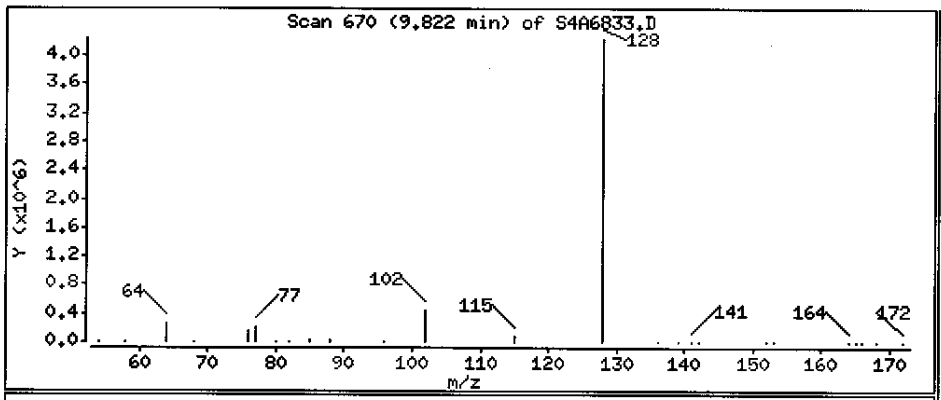
Client ID: CEF-CSDUP-01 Instrument: S4.i

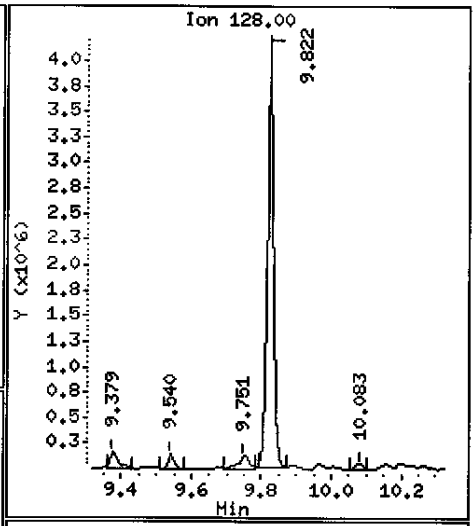
Sample Info: D0058-11B,,16595,,

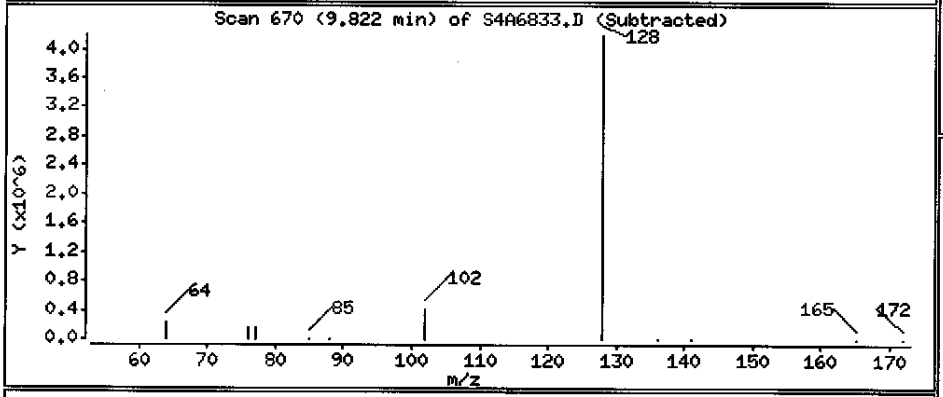
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

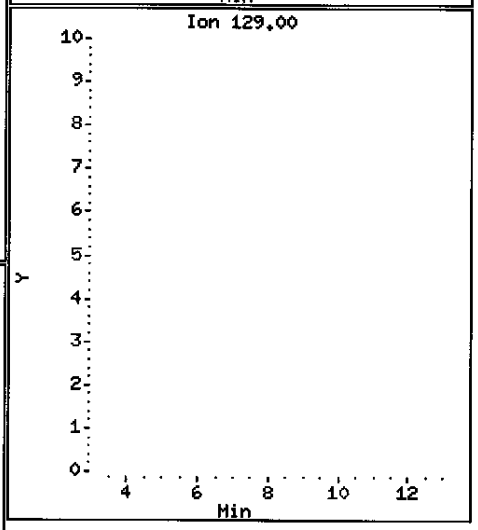
Column phase: DB-5MS Column diameter: 0.25

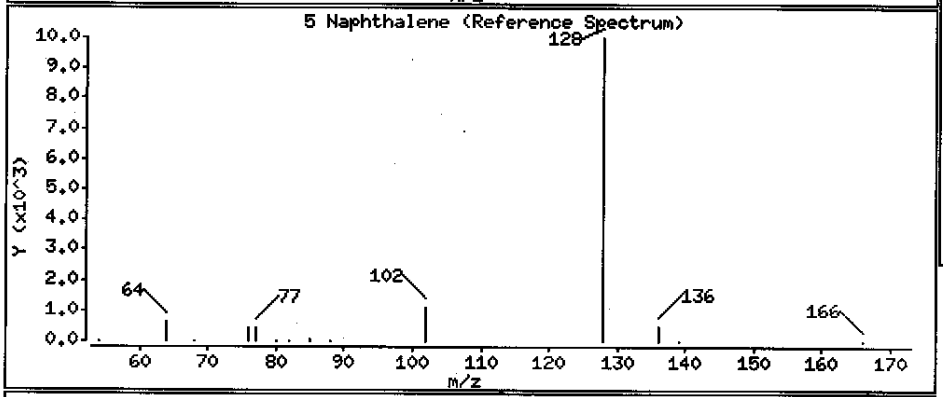
5 Naphthalene Concentration: 24 ug/L

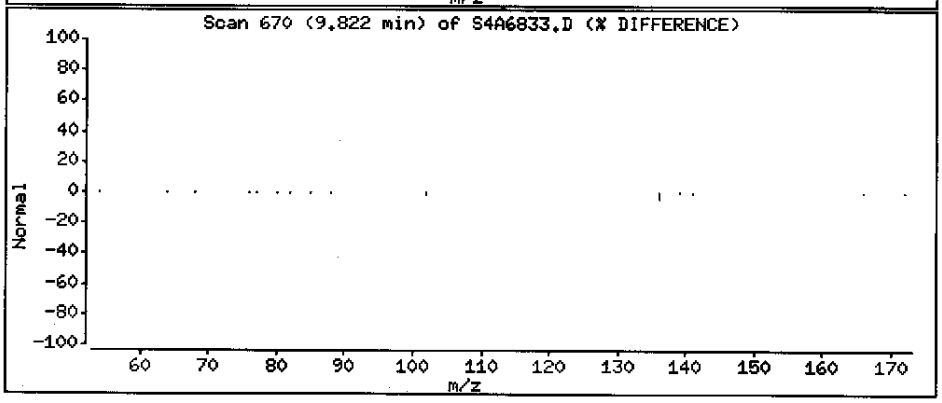












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Date : 29-JAN-2005 00:08

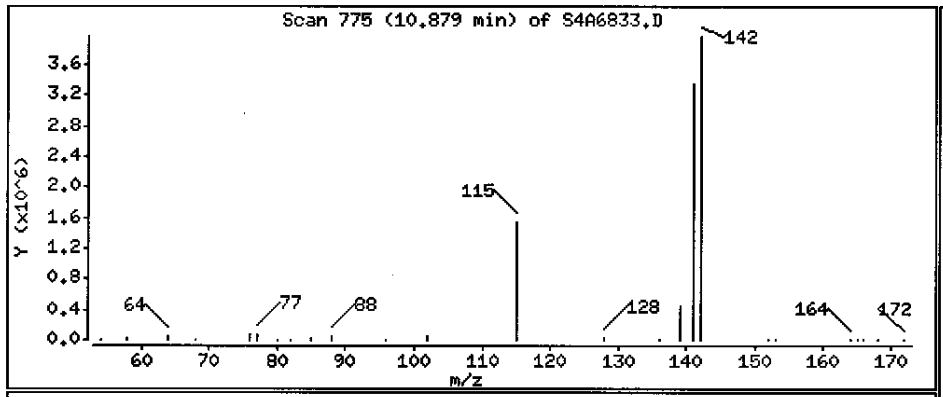
Client ID: CEF-CSDUP-01 Instrument: S4.i

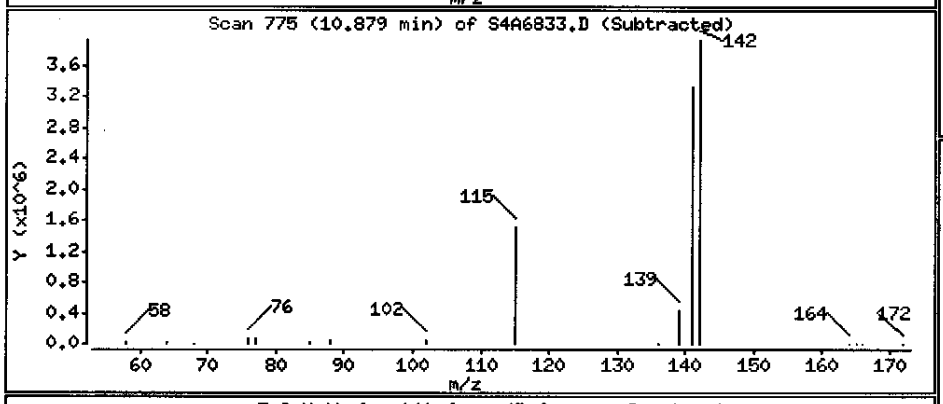
Sample Info: D0058-11B,,16595,,

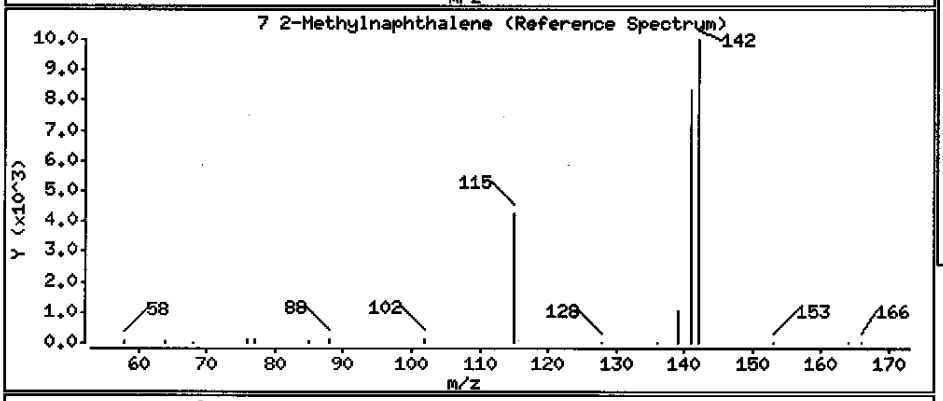
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

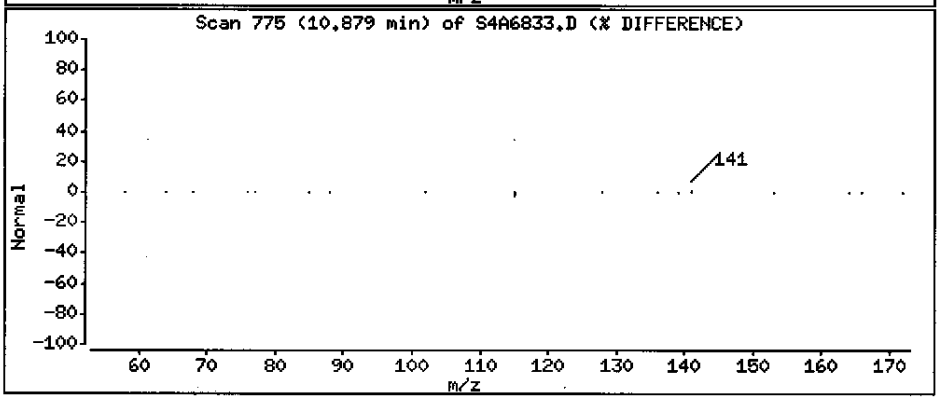
Column phase: DB-5MS Column diameter: 0.25

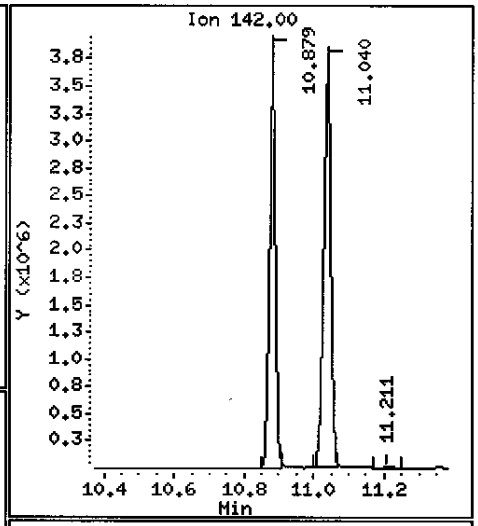
7 2-Methylnaphthalene Concentration: 36 ug/L

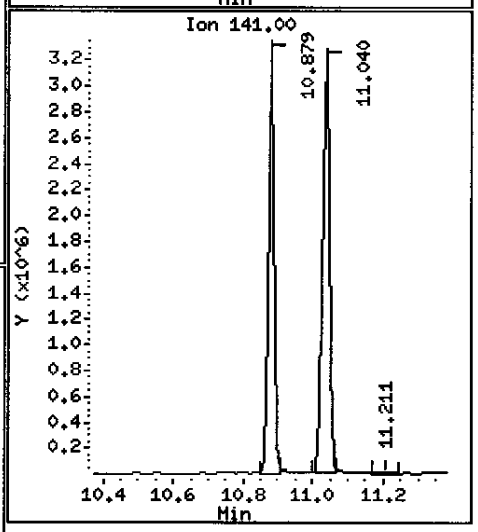












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Date : 29-JAN-2005 00:08

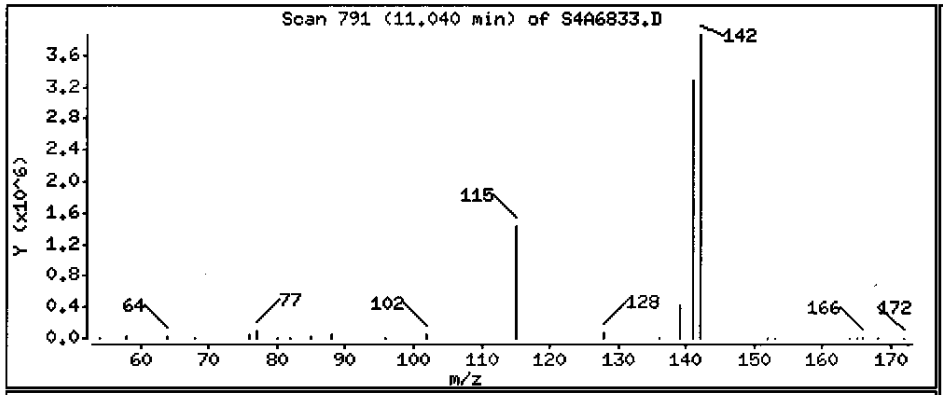
Client ID: CEF-CSDUP-01 Instrument: S4.i

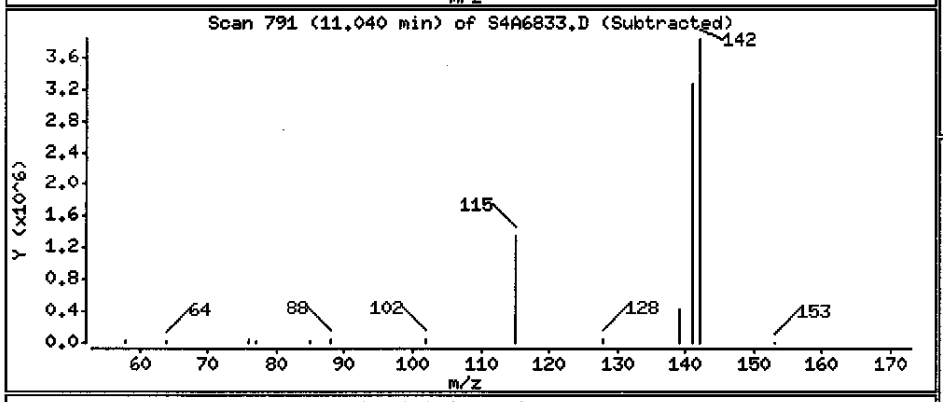
Sample Info: D0058-11B,,16595,,

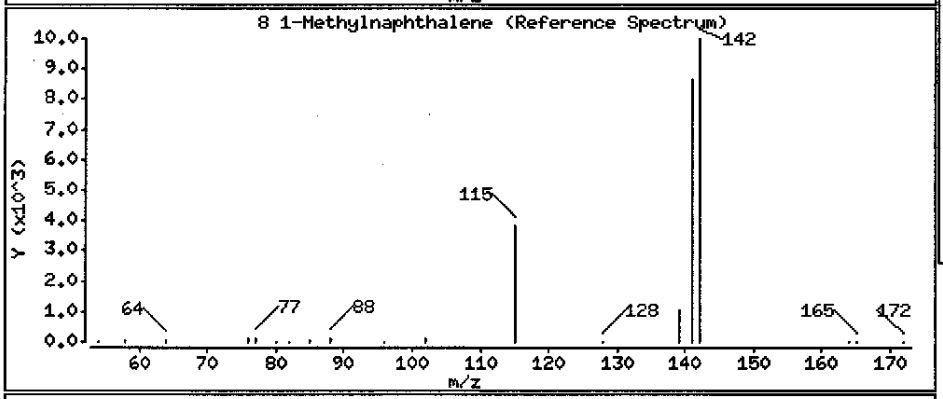
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

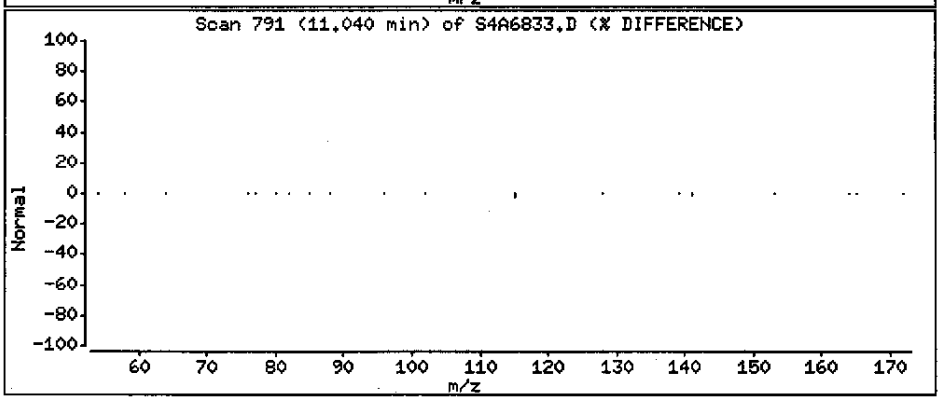
Column phase: DB-5MS Column diameter: 0.25

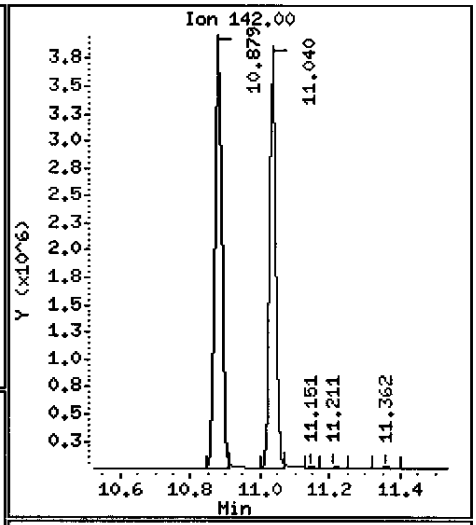
8 1-Methylnaphthalene Concentration: 35 ug/L

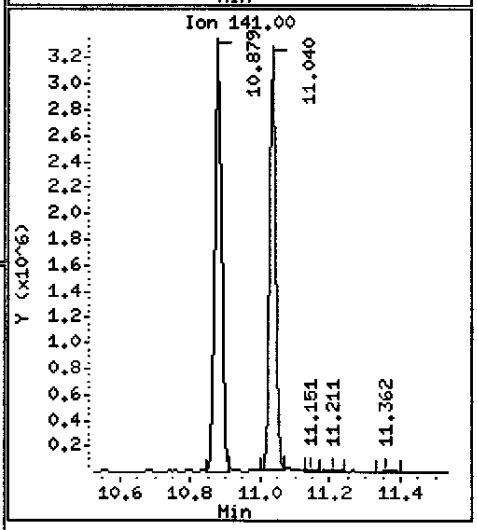












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Date : 29-JAN-2005 00:08

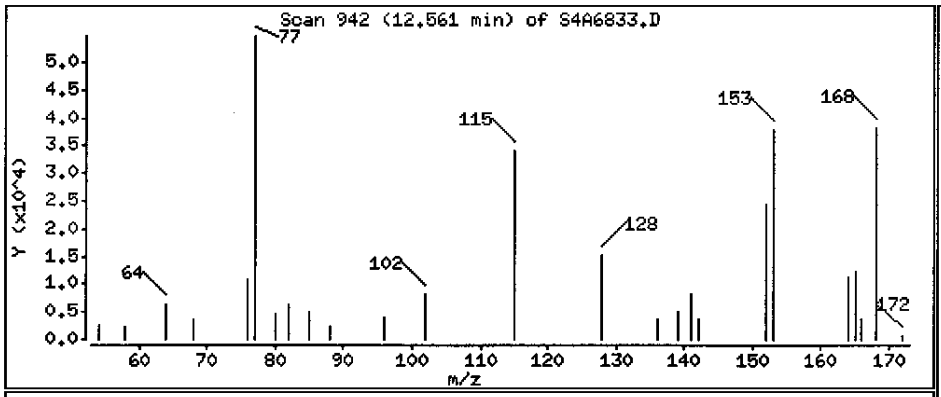
Client ID: CEF-CSDUP-01 Instrument: S4.i

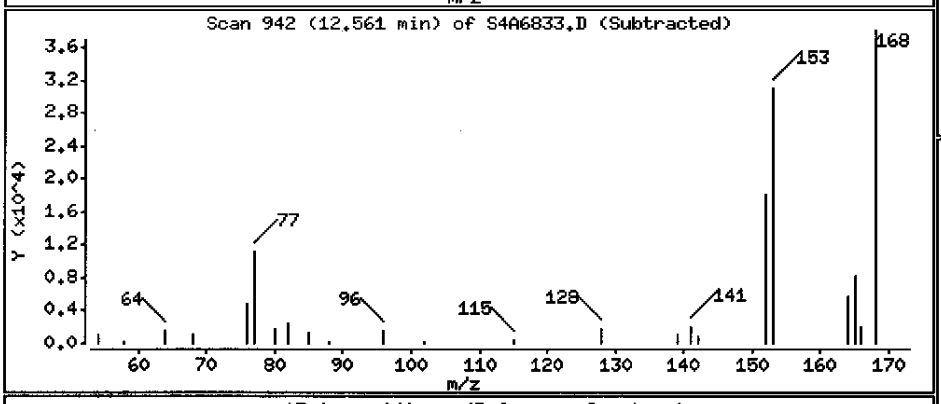
Sample Info: D0058-11B,,16595,,

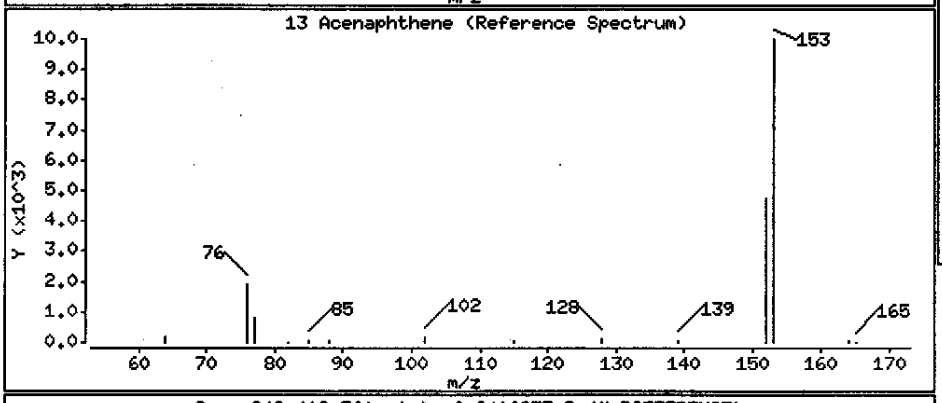
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

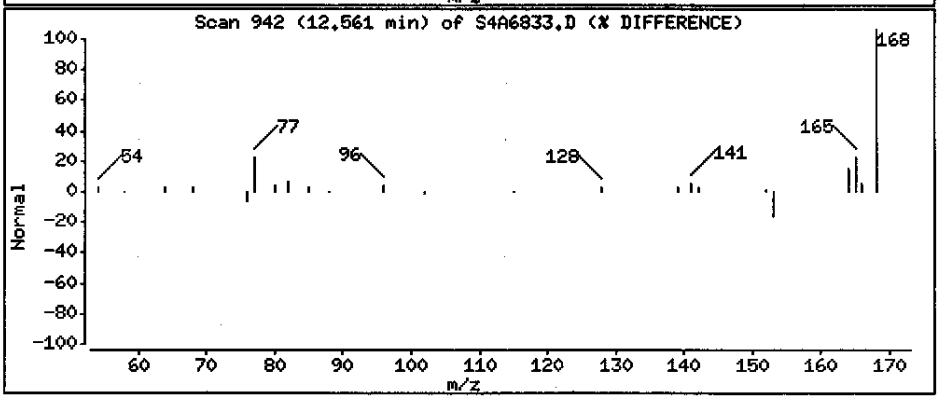
Column phase: DB-5MS Column diameter: 0.25

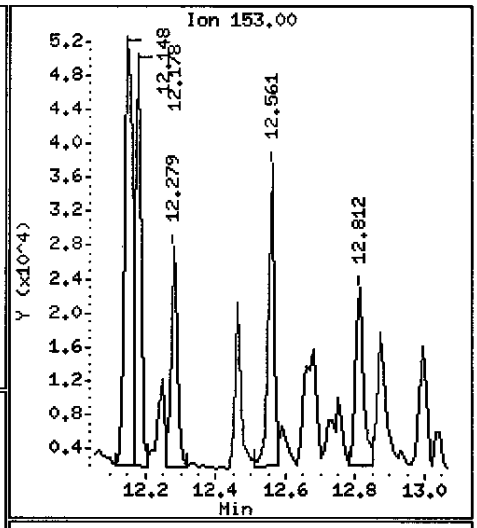
13 Acenaphthene Concentration: 0.33 ug/L

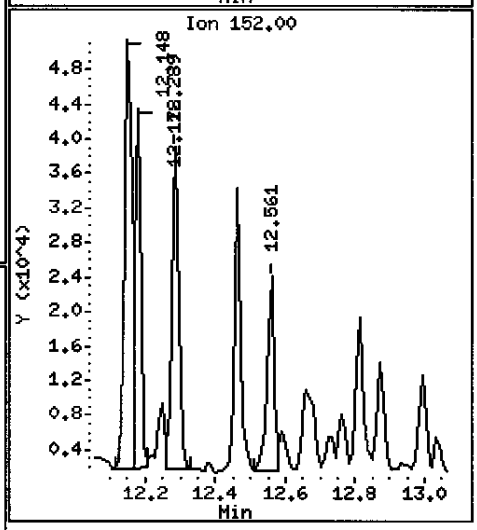












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6833.D

Date : 29-JAN-2005 00:08

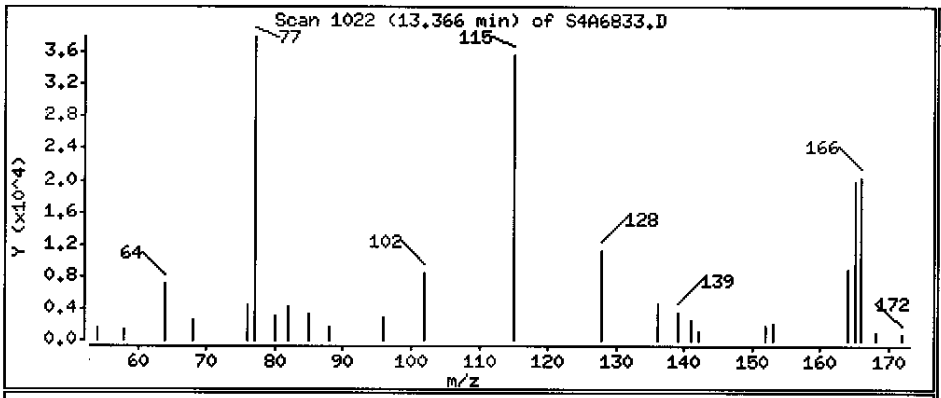
Client ID: CEF-CSDUP-01 Instrument: S4.i

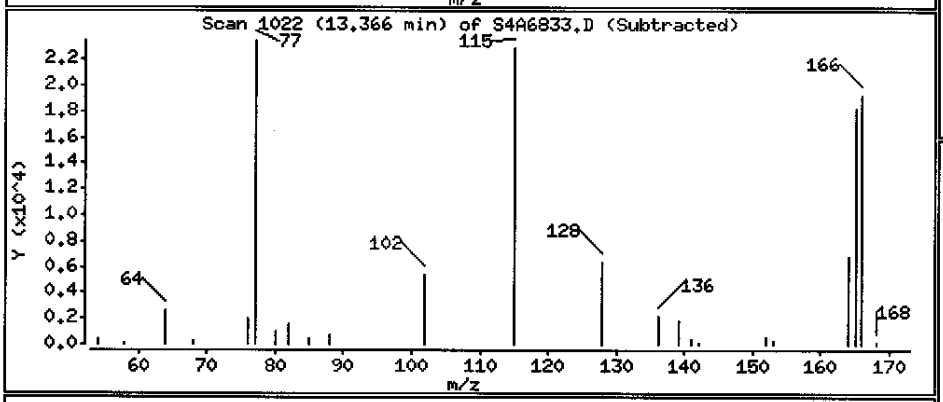
Sample Info: D0058-11B,,16595,,

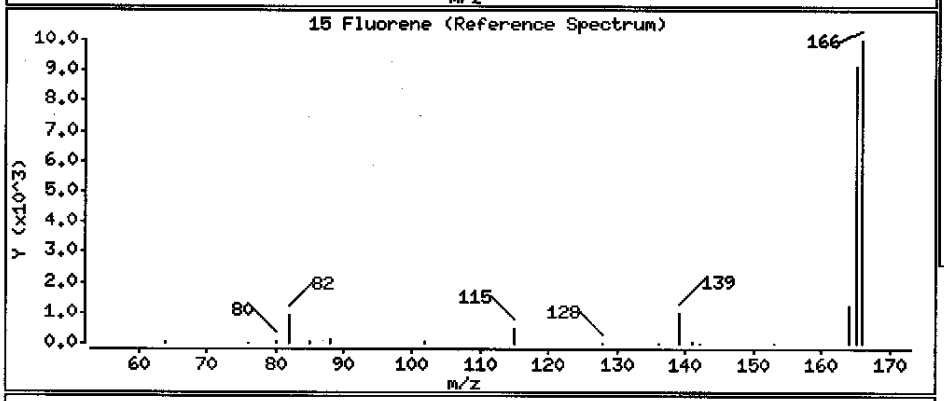
Volume Injected (uL): 1.0 Operator: AW SRC: LIMS

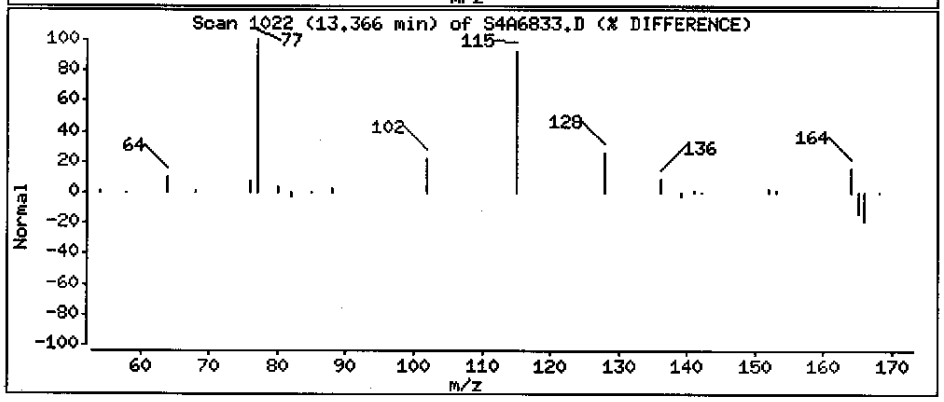
Column phase: DB-5MS Column diameter: 0.25

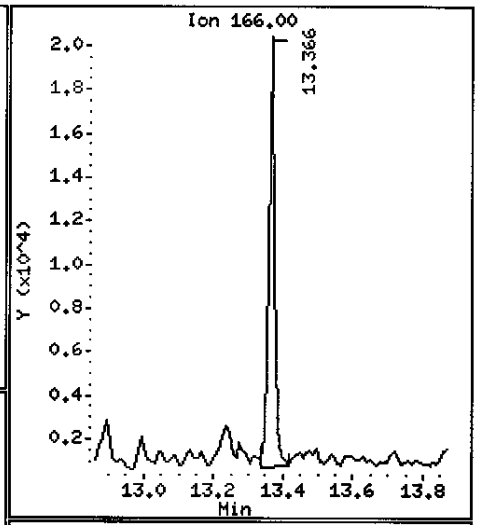
15 Fluorene Concentration: 0.16 ug/L

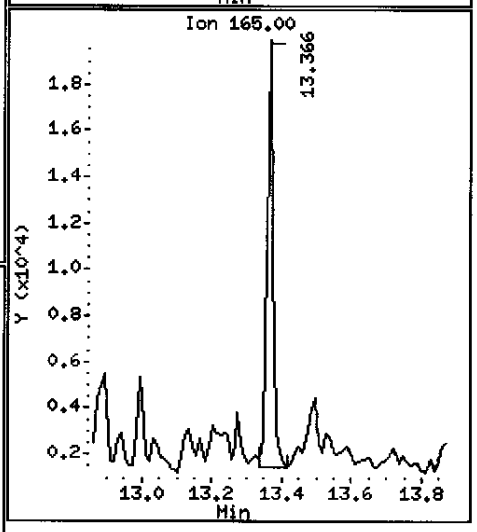












1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CSDUP-01DL

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: D0058-11BDL

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6844A.D

Level: (low/med) LOW | Date Collected: 01/19/05 Time: 0:00

% Moisture: | Decanted: (Y/N) N | Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 10.00 Analyst: awieczorek | Date Analyzed: 01/31/05 Time: 15:41

Prep Batch: 16595 | Analytical Run: S4_050131A

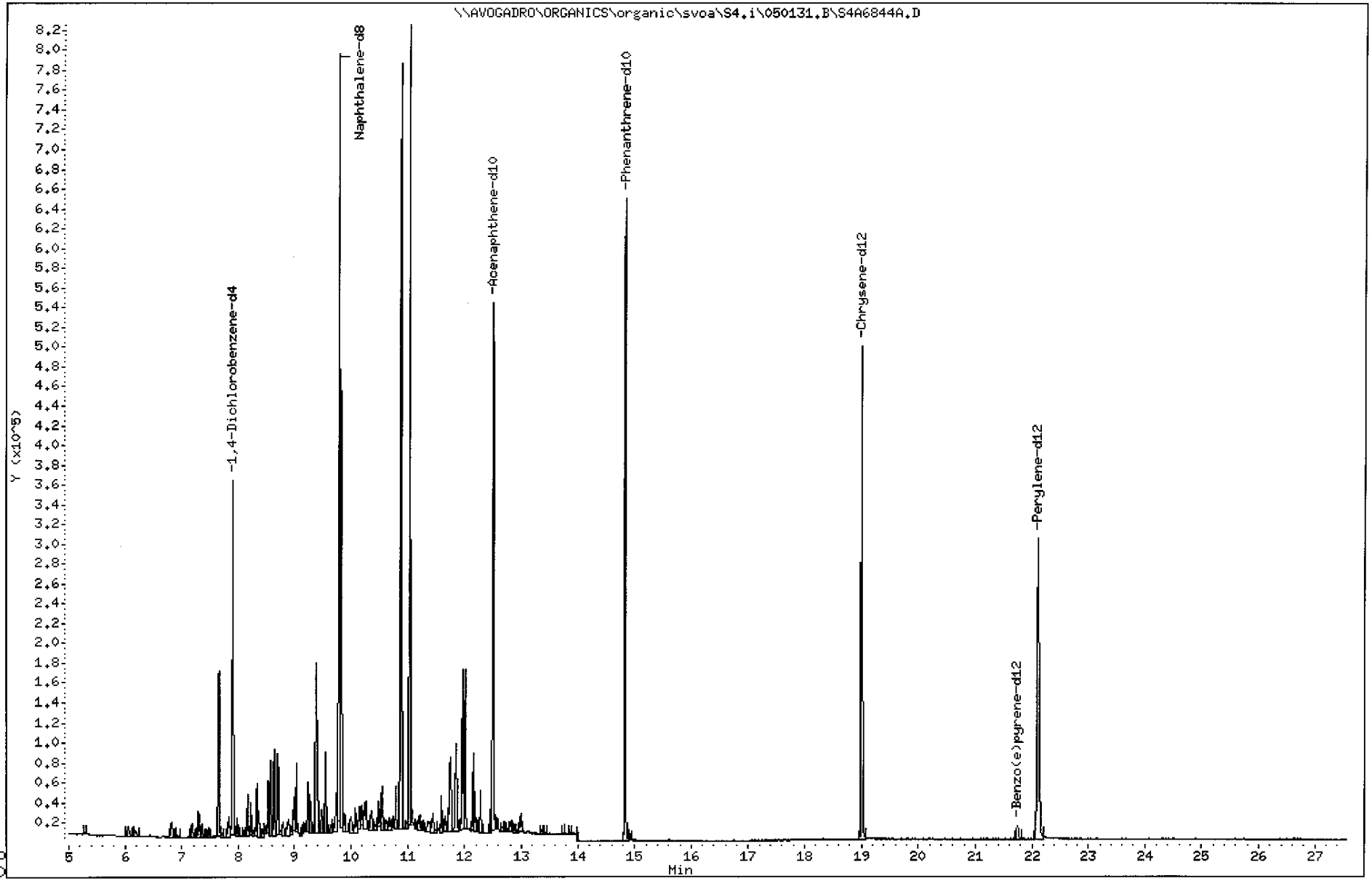
Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	**Naphthalene**	**29**	**D**	**0.27**	**1.0**
91-57-6	**2-Methylnaphthalene**	**45**	**D**	**0.41**	**1.0**
208-96-8	Acenaphthylene	1.0	U	0.097	1.0
83-32-9	Acenaphthene	1.0	U	0.27	1.0
86-73-7	Fluorene	1.0	U	0.23	1.0
85-01-8	Phenanthrene	1.0	U	0.37	1.0
120-12-7	Anthracene	1.0	U	0.25	1.0
206-44-0	Fluoranthene	1.0	U	0.46	1.0
129-00-0	Pyrene	1.0	U	0.30	1.0
56-55-3	Benzo(a)anthracene	1.0	U	0.18	1.0
218-01-9	Chrysene	1.0	U	0.18	1.0
205-99-2	Benzo(b)fluoranthene	1.0	U	0.20	1.0
207-08-9	Benzo(k)fluoranthene	1.0	U	0.21	1.0
50-32-8	Benzo(a)pyrene	1.0	U	0.12	1.0
193-39-5	Indeno(1,2,3-cd)pyrene	1.0	U	0.20	1.0
53-70-3	Dibenzo(a,h)anthracene	1.0	U	0.15	1.0
191-24-2	Benzo(g,h,i)perylene	1.0	U	0.16	1.0
90-12-0	**1-Methylnaphthalene**	**44**	**D**	**0.41**	**1.0**

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6844A.D
Date : 31-JAN-2005 15:41
Client ID: CEF-CSDUP-01DL
Sample Info: D0058-11BDL,,16595,,10
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i
Operator: AW SRC: LIMS
Column diameter: 0.25



0302

Data File: S4A6844A.D
Report Date: 04-Feb-2005 08:37

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6844A.D
Lab Smp Id: D0058-11BDL Client Smp ID: CEF-CSDUP-01DL
Inj Date : 31-JAN-2005 15:41
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-11BDL,,16595,,10
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\s4_pah_sim.m
Meth Date : 31-Jan-2005 12:23 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 3
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.909	(1.000)	268487	5.00000	
* 4 Naphthalene-d8	136	9.781	9.792	(1.000)	860499	5.00000	
5 Naphthalene	128	9.822	9.822	(1.004)	471077	2.85840	28
7 2-Methylnaphthalene	142	10.879	10.879	(1.112)	447241	4.51263	45
8 1-Methylnaphthalene	142	11.030	11.030	(1.128)	417951	4.36551	44
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	452133	5.00000	
* 16 Phenanthrene-d10	188	14.839	14.843	(1.000)	741337	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	644346	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	23048	0.19821	2.0
* 30 Perylene-d12	264	22.107	22.108	(1.000)	532610	5.00000	

02/04/05 KL

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6844A.D

Date : 31-JAN-2005 15:41

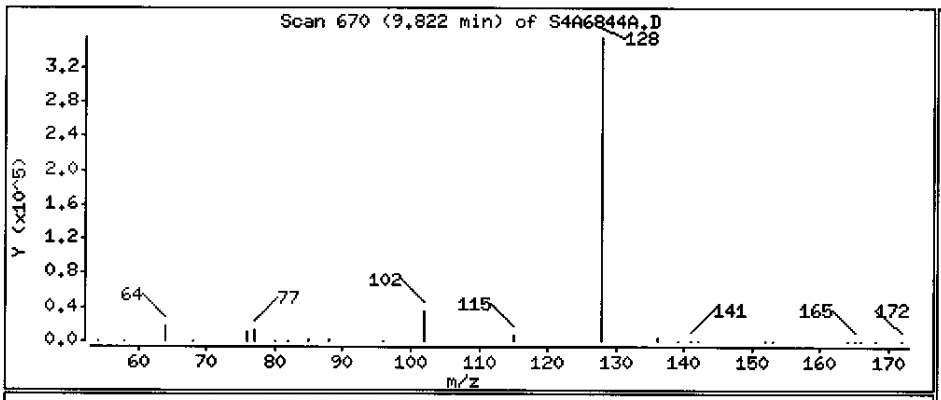
Client ID: CEF-CSDUP-01DL | Instrument: S4.i

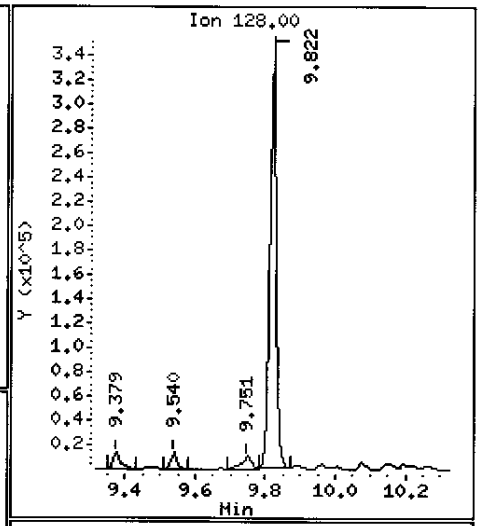
Sample Info: D0058-11BDL,,16595,,10

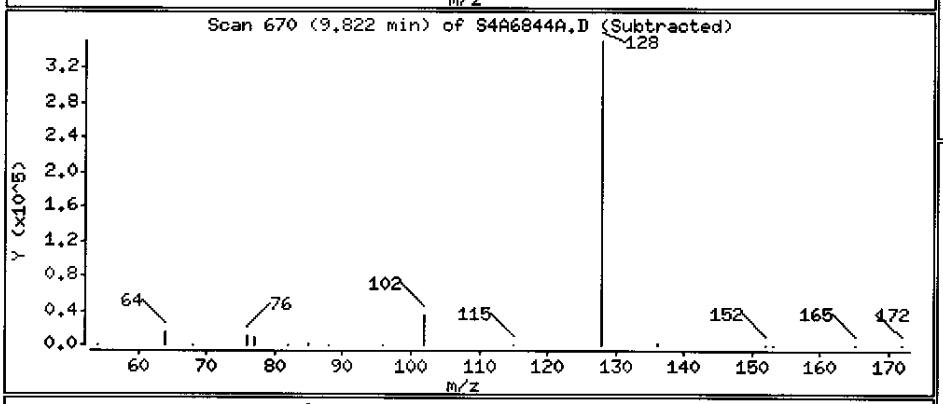
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

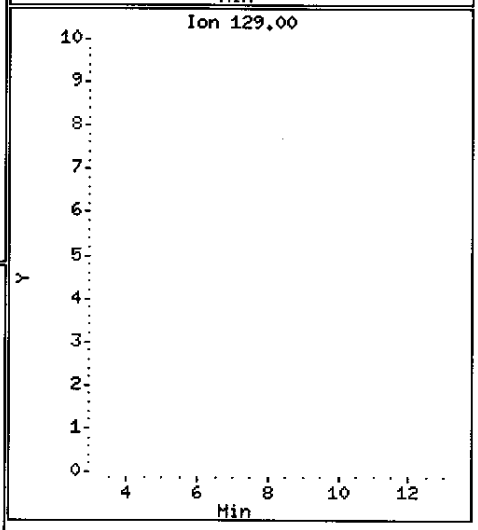
Column phase: DB-5MS | Column diameter: 0.25

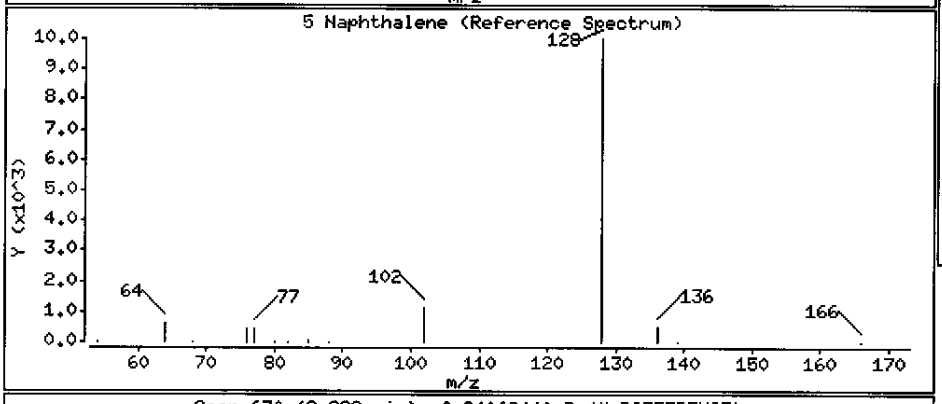
5 Naphthalene | Concentration: 28 ug/L

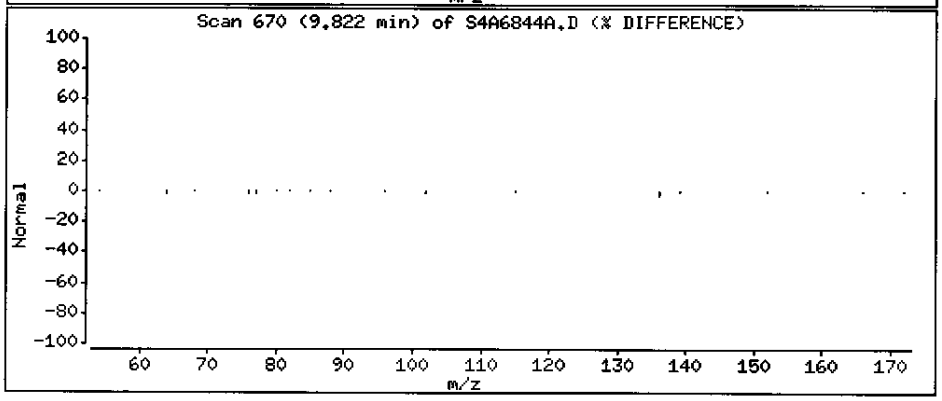












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6844A.D

Date : 31-JAN-2005 15:41

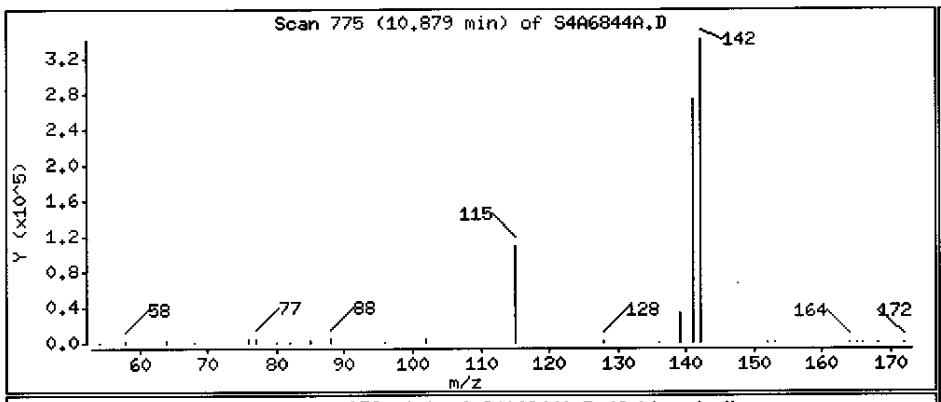
Client ID: CEF-CSDUP-01DL | Instrument: S4.i

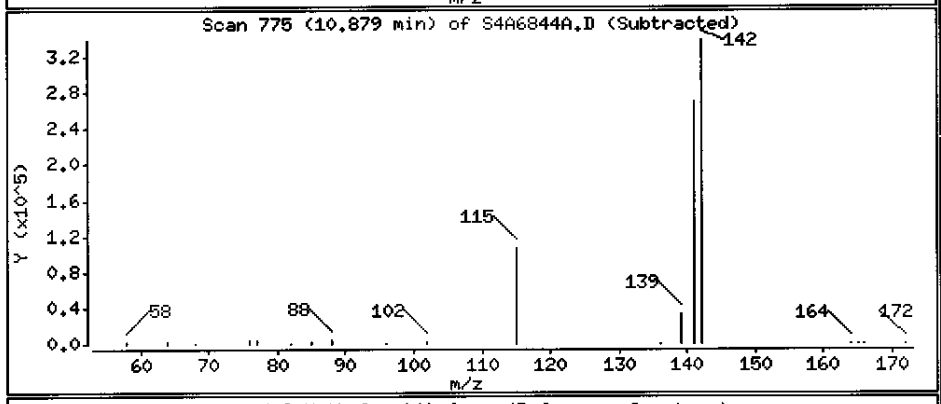
Sample Info: D0058-11BDL,,16595,,10

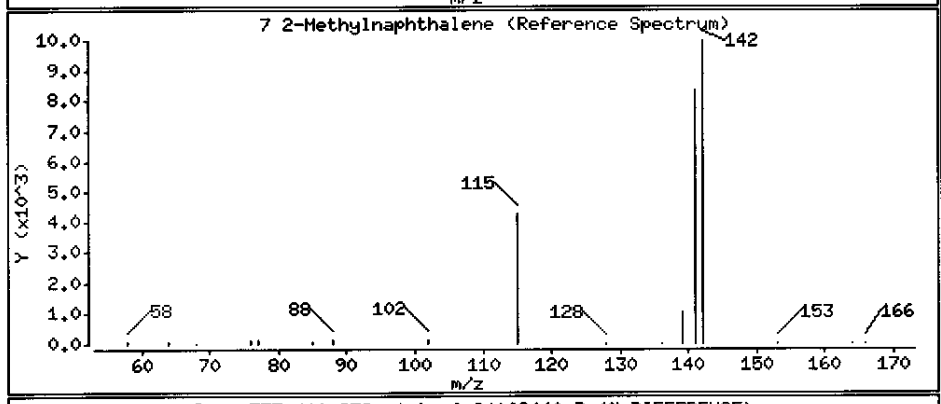
Volume Injected (uL): 1.0 | Operator: AW SRC: LIMS

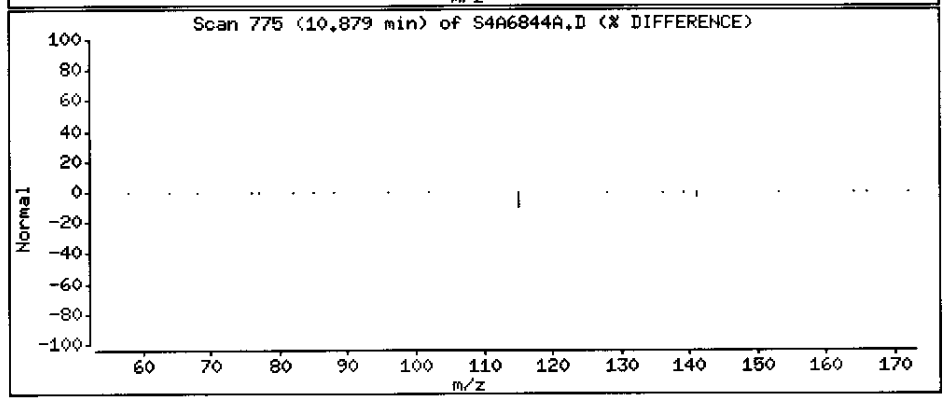
Column phase: DB-5MS | Column diameter: 0.25

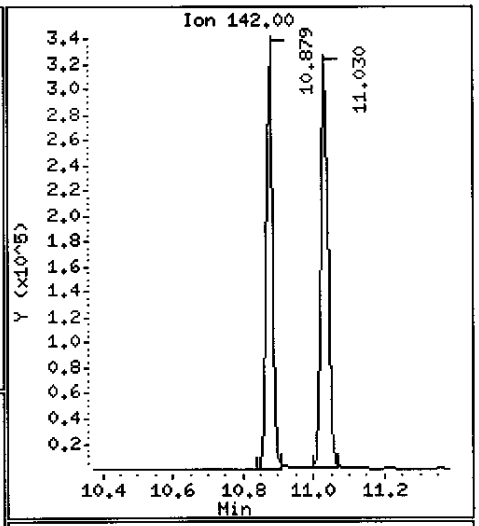
7 2-Methylnaphthalene | Concentration: 45 ug/L

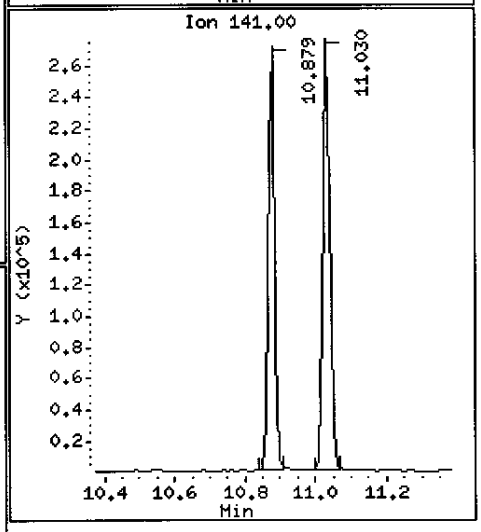












Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6844A.D

Date : 31-JAN-2005 15:41

Client ID: CEF-CSDUP-01DL

Instrument: S4.i

Sample Info: D0058-11BDL,,16595,,10

Volume Injected (uL): 1.0

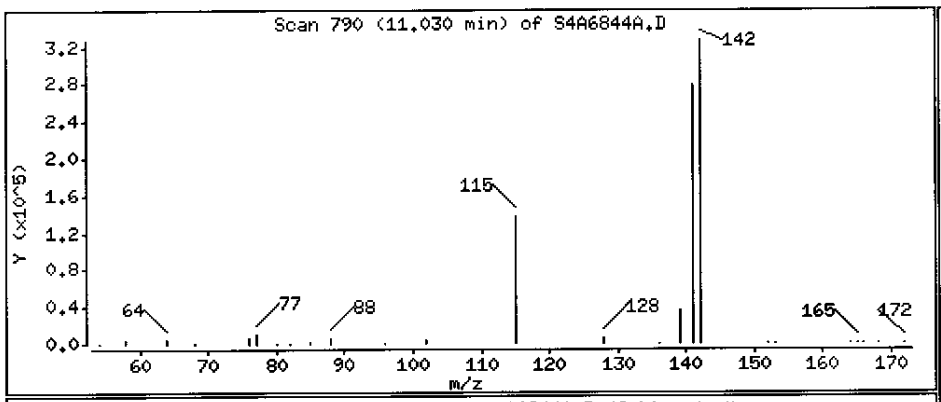
Operator: AW SRC: LIMS

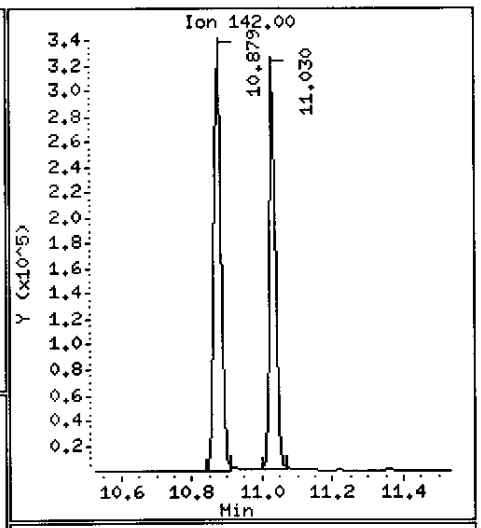
Column phase: DB-5MS

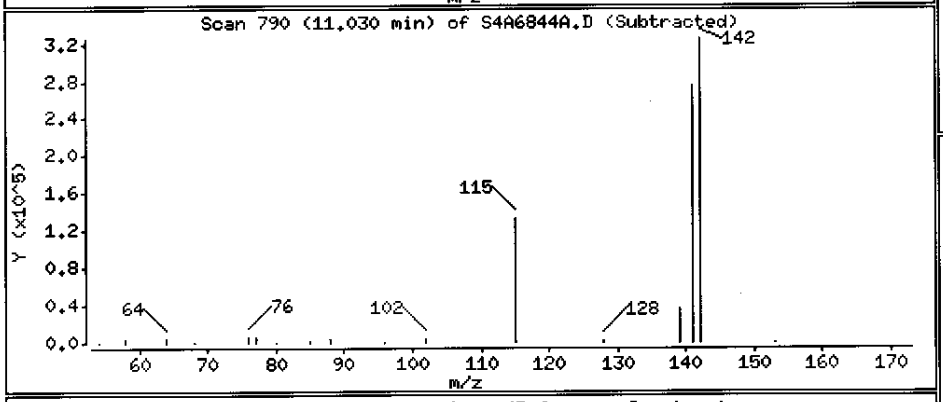
Column diameter: 0.25

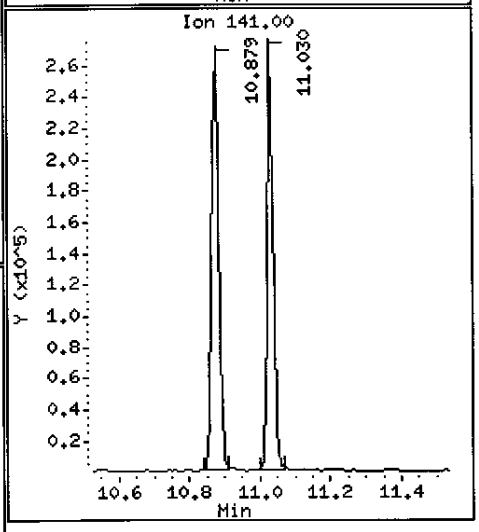
8 1-Methylnaphthalene

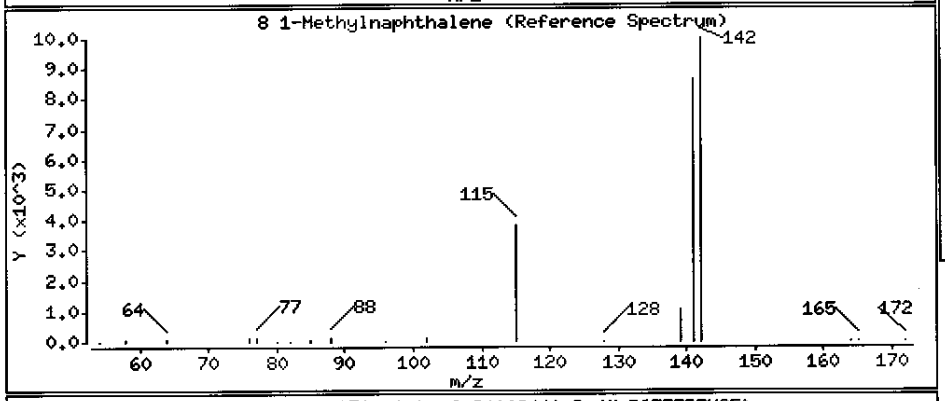
Concentration: 44 ug/L

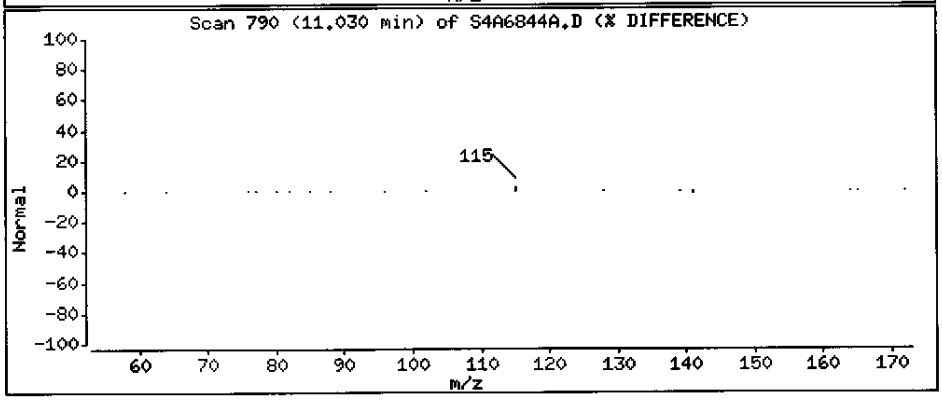












6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.:_____ SDG No.: MD0058

Instrument ID: S4 Calibration Date(s): 01/28/05 01/28/05

Calibration Times: 10:41 13:14

LAB FILE ID: RRF0.1 = S4A6812.D RRF0.5 = S4A6815.D
RRF1 = S4A6811.D RRF5 = S4A6814.D RRF10 = S4A6813.D

COMPOUND		RRF0.1	RRF0.5	RRF1	RRF5	RRF10	$\overline{RRF}$	% RSD	
Naphthalene		1.098	0.929	1.114	0.836	0.809	0.957	14.9	
2-Methylnaphthalene		0.676	0.529	0.661	0.511	0.502	0.576	14.8	
Acenaphthylene		1.988	1.641	2.076	1.532	1.445	1.736	16.2	
Acenaphthene	*	1.232	0.990	1.287	0.936	0.911	1.071	16.4	*
Fluorene		1.380	1.102	1.424	1.073	1.004	1.197	16.0	
Phenanthrene		1.332	1.137	1.267	0.974	0.941	1.130	15.3	
Anthracene		1.211	1.035	1.214	0.974	0.939	1.075	12.1	
Fluoranthene	*	1.451	1.204	1.336	1.065	1.007	1.213	15.2	*
Pyrene		2.058	1.608	1.855	1.335	1.332	1.638	19.5	
Benzo(a)anthracene		1.863	1.411	1.643	1.261	1.235	1.483	18.0	
Chrysene		1.619	1.352	1.595	1.203	1.174	1.389	15.2	
Benzo(b)fluoranthene		1.796	1.512	1.731	1.373	1.355	1.553	13.0	
Benzo(k)fluoranthene		1.843	1.472	1.768	1.409	1.371	1.573	13.8	
Benzo(a)pyrene	*	1.508	1.329	1.555	1.285	1.274	1.390	9.5	*
Indeno(1,2,3-cd)pyrene		1.761	1.409	1.603	1.449	1.399	1.524	10.2	
Dibenzo(a,h)anthracene		1.224	1.020	1.182	1.107	1.074	1.121	7.3	
Benzo(g,h,i)perylene		1.716	1.331	1.489	1.259	1.207	1.400	14.7	
1-Methylnaphthalene		0.637	0.525	0.639	0.496	0.484	0.556	13.7	

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

6D

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date(s): 01/28/05 01/28/05

Calibration Times: 10:41 13:14

LAB FILE ID: RRF0.1 = S4A6812.D RRF0.5 = S4A6815.D

RRF1 = S4A6811.D RRF5 = S4A6814.D RRF10 = S4A6813.D

COMPOUND	RRF0.1	RRF0.5	RRF1	RRF5	RRF10	$\overline{RRF}$	% RSD
Benzo(e)pyrene-d12	1.162	1.129	1.177	0.999	0.991	1.092	8.2

(1) Cannot be separated from Diphenylamine

* Compounds with required minimum RRF and maximum %RSD values.

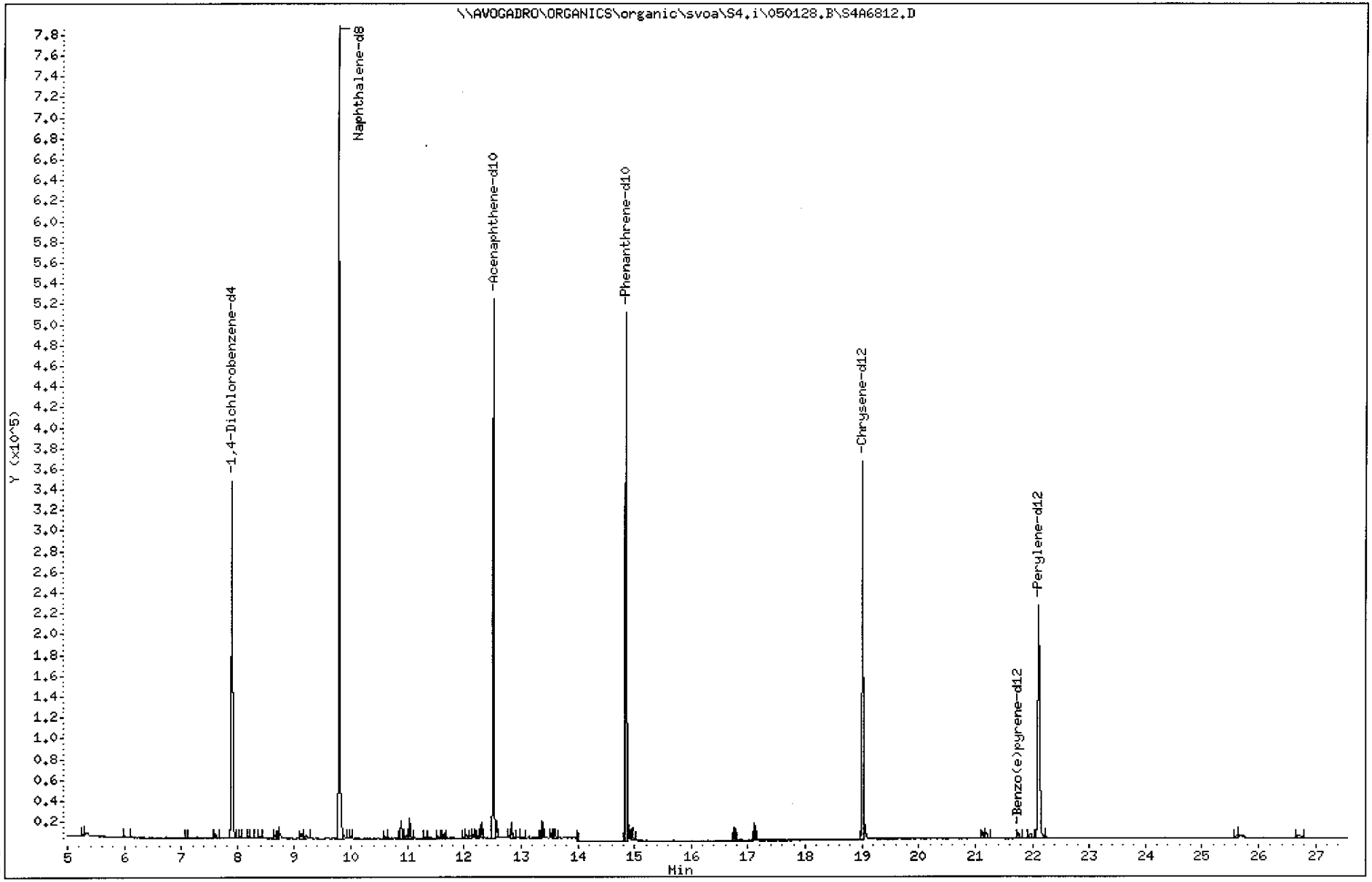
All other compounds must meet a minimum RRF of 0.010.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6812.D
Date : 28-JAN-2005 11:19
Client ID: SSTD0.14A
Sample Info: SSTD0.14A,SSTD0.14A

Instrument: S4.i

Operator: AW SRC: AW
Column diameter: 0.25

Column phase: DB-5MS



0309

Data File: S4A6812.D
Report Date: 01-Feb-2005 12:08

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6812.D
Lab Smp Id: SSTD0.14A Client Smp ID: SSTD0.14A
Inj Date : 28-JAN-2005 11:19
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0.14A,SSTD0.14A
Misc Info : 1,1,SSTD0.1,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 15:19 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 11:19 Cal File: S4A6812.D
Als bottle: 27 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 1,4-Dichlorobenzene-d4	152	7.909	7.909	(1.000)	273944	5.00000	(T)
*	4 Naphthalene-d8	136	9.792	9.792	(1.000)	810799	5.00000	
	5 Naphthalene	128	9.822	9.822	(1.003)	17813	0.10000	0.099(T)
	7 2-Methylnaphthalene	142	10.889	10.879	(1.112)	10959	0.10000	0.10
	8 1-Methylnaphthalene	142	11.040	10.879	(1.128)	10330	0.10000	0.100
	11 Acenaphthylene	152	12.299	12.299	(0.983)	15597	0.10000	0.098(T)
*	12 Acenaphthene-d10	164	12.510	12.510	(1.000)	392347	5.00000	(T)
	13 Acenaphthene	153	12.561	12.561	(1.004)	9668	0.10000	0.098
	15 Fluorene	166	13.376	13.366	(1.069)	10832	0.10000	0.098
*	16 Phenanthrene-d10	188	14.846	14.843	(1.000)	598551	5.00000	
	17 Phenanthrene	178	14.882	14.883	(1.002)	15945	0.10000	0.10(T)
	18 Anthracene	178	14.965	14.961	(1.008)	14494	0.10000	0.100(T)
	20 Fluoranthene	202	16.757	16.751	(1.129)	17367	0.10000	0.10
	21 Pyrene	202	17.119	17.116	(0.901)	18898	0.10000	0.10
	23 Benzo(a)anthracene	228	18.990	18.985	(0.999)	17103	0.10000	0.11
*	24 Chrysene-d12	240	19.006	19.006	(1.000)	459117	5.00000	
	25 Chrysene	228	19.054	19.049	(1.002)	14862	0.10000	0.10
	26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	13548	0.10000	0.10
	27 Benzo(k)fluoranthene	252	21.199	21.194	(0.959)	13898	0.10000	0.10
$	29 Benzo(e)pyrene-d12	264	21.754	21.896	(0.984)	8765	0.10000	0.099
	28 Benzo(a)pyrene	252	21.965	21.965	(0.993)	11371	0.10000	0.098
*	30 Perylene-d12	264	22.113	22.108	(1.000)	377082	5.00000	
	31 Indeno(1,2,3-cd)pyrene	276	25.616	25.606	(1.158)	13278	0.10000	0.10(M)
	32 Dibenzo(a,h)anthracene	278	25.685	25.685	(1.162)	9229	0.10000	0.10(M)
	33 Benzo(g,h,i)perylene	276	26.704	26.699	(1.208)	12945	0.10000	0.11(M)

HS not integrated 02/01/05 AW

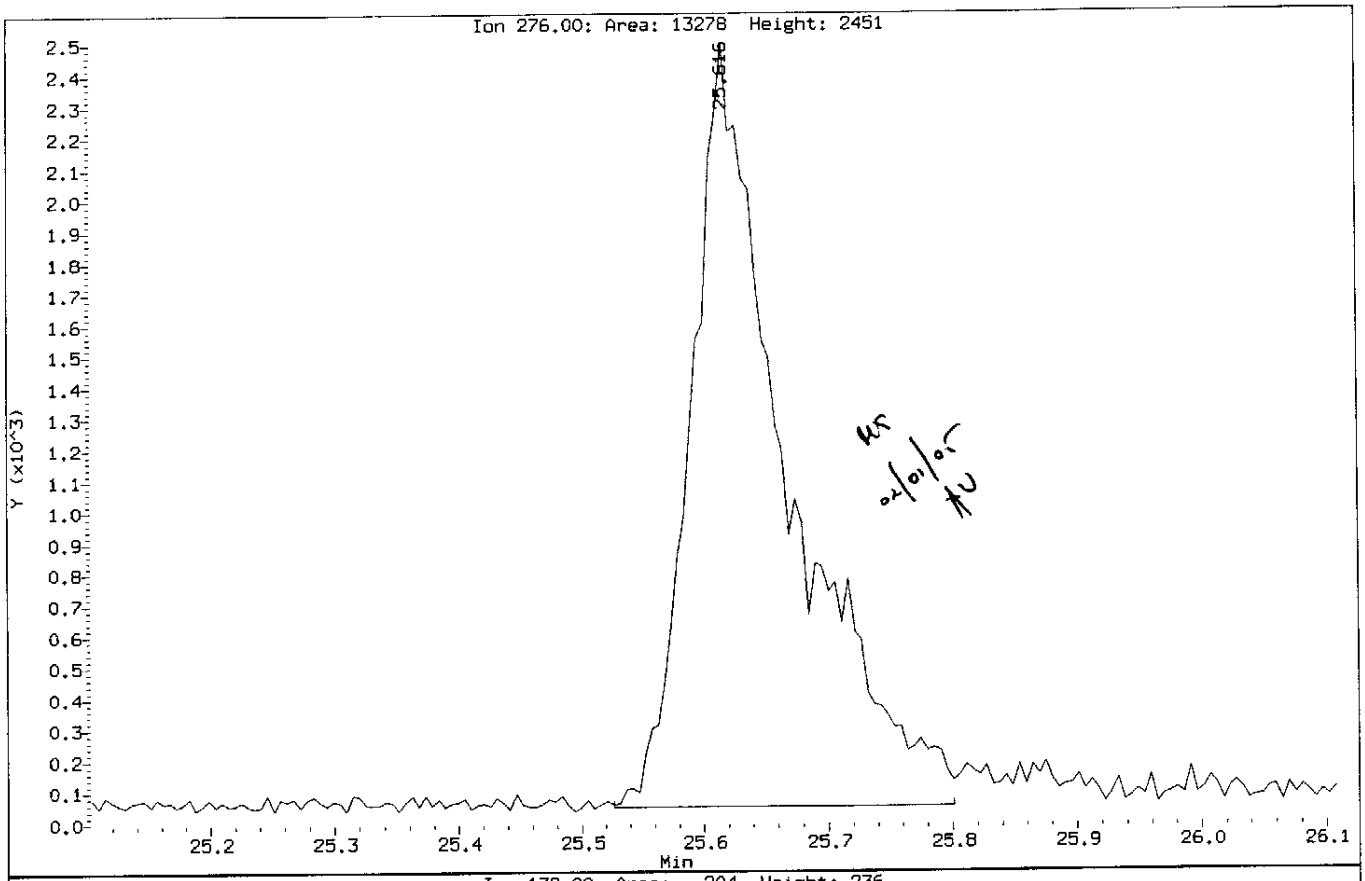
Data File: S4A6812.D
Report Date: 01-Feb-2005 12:08

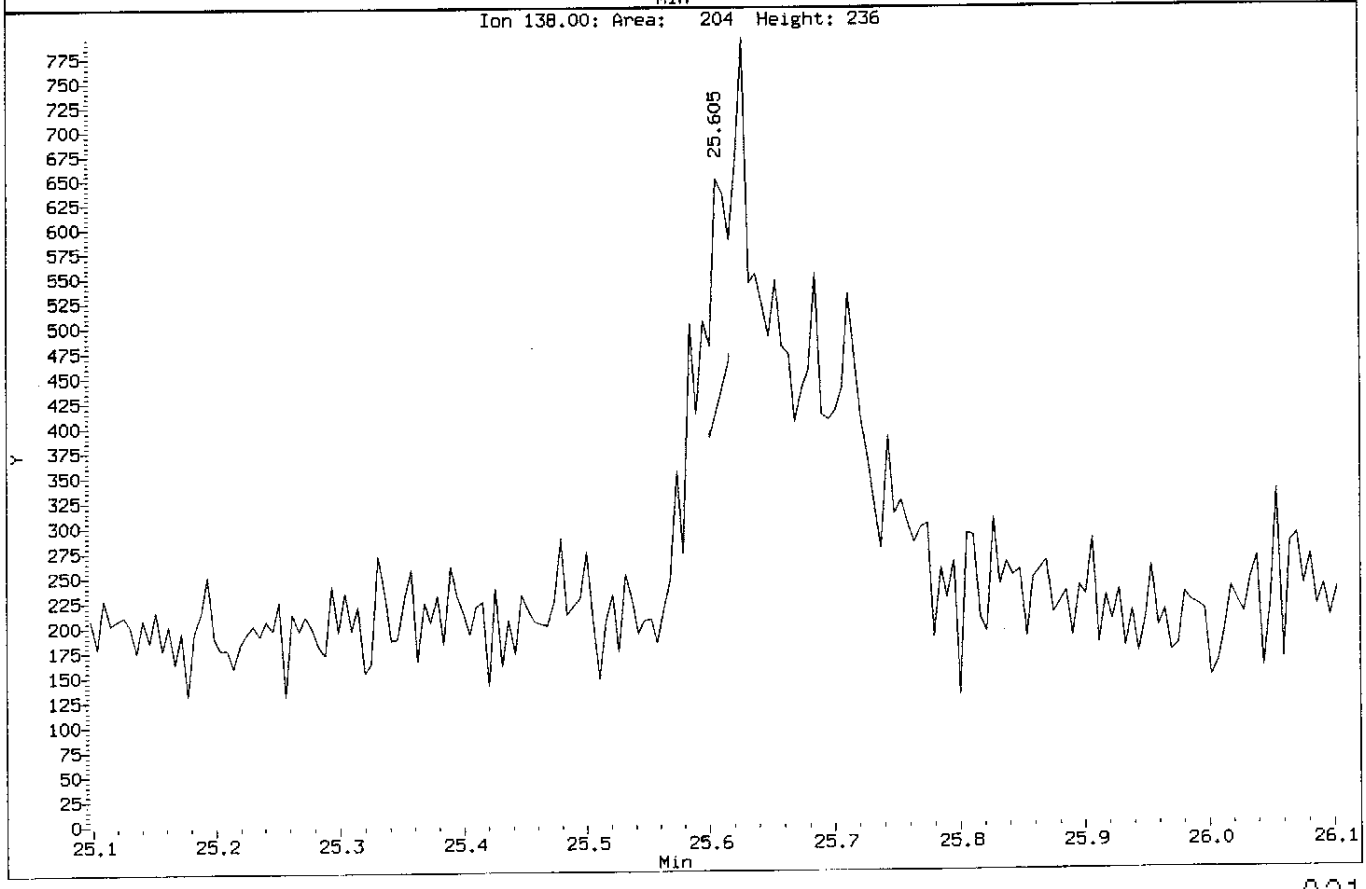
QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\54.i\050128.B\S4A6812.D
Injection Date: 28-JAN-2005 11:19
Instrument: 54.i
Client Sample ID: SSTD0.14A

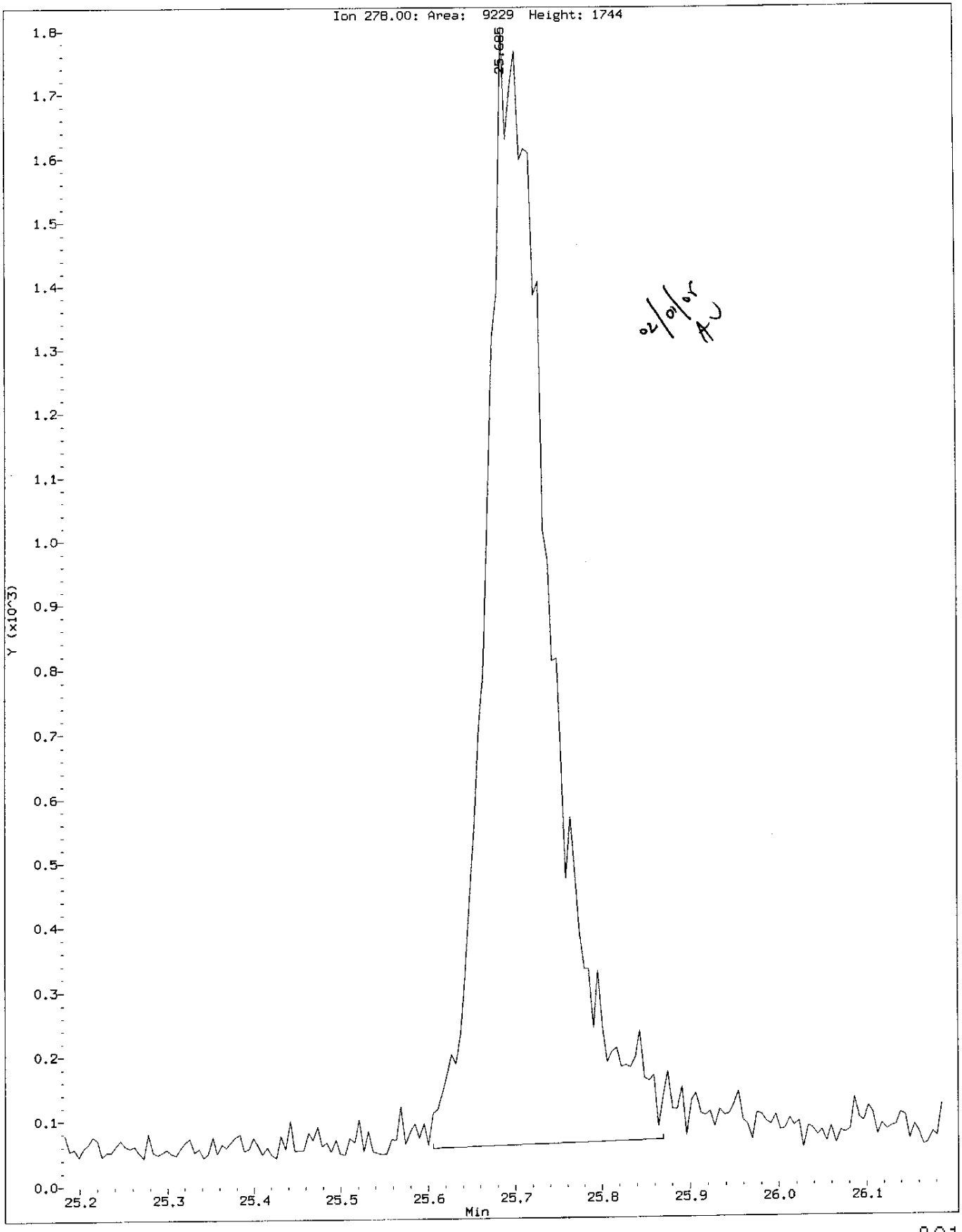
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





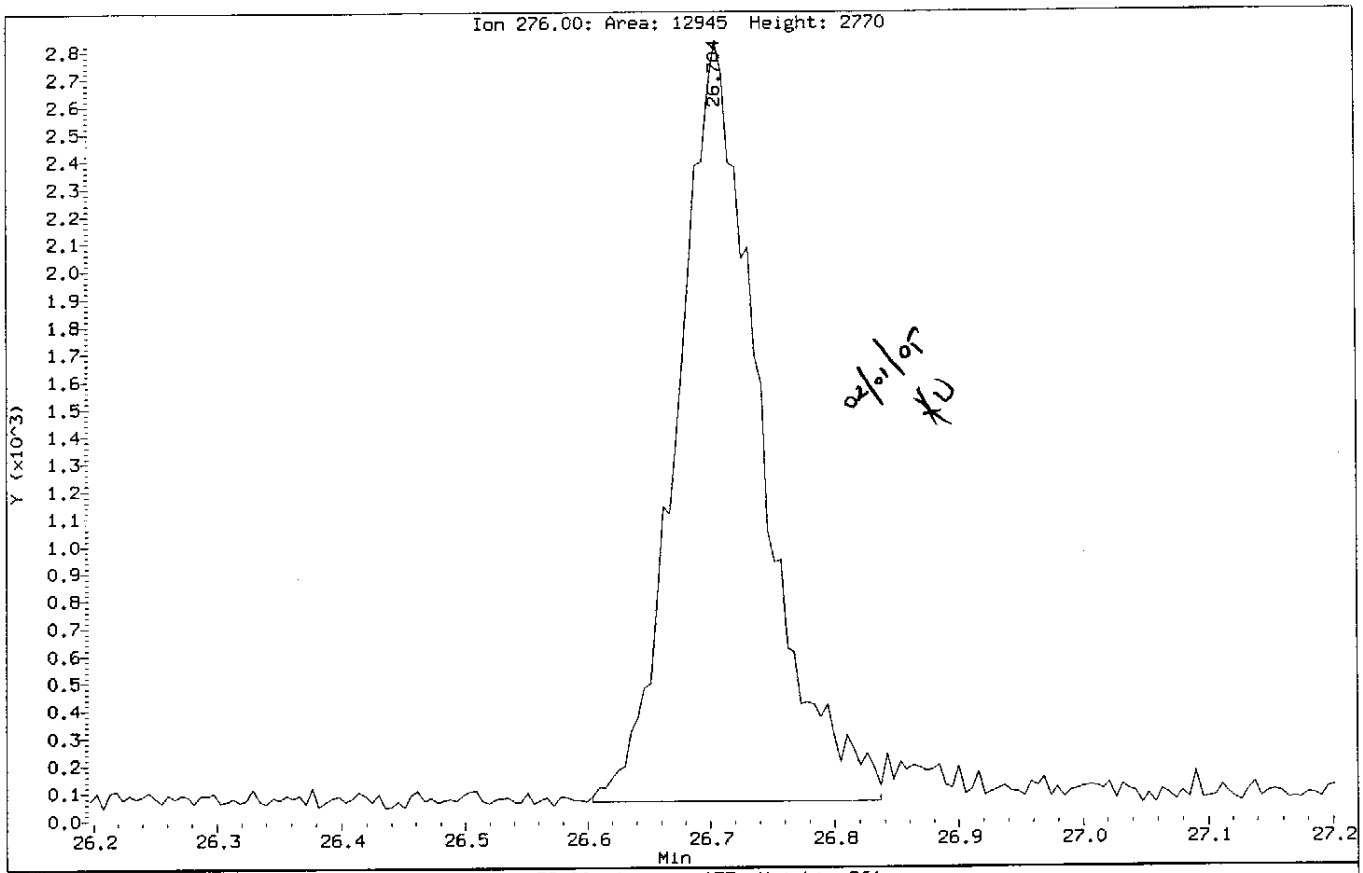
Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6B12.D
Injection Date: 28-JAN-2005 11:19
Instrument: S4.i
Client Sample ID: SSTD0.14A

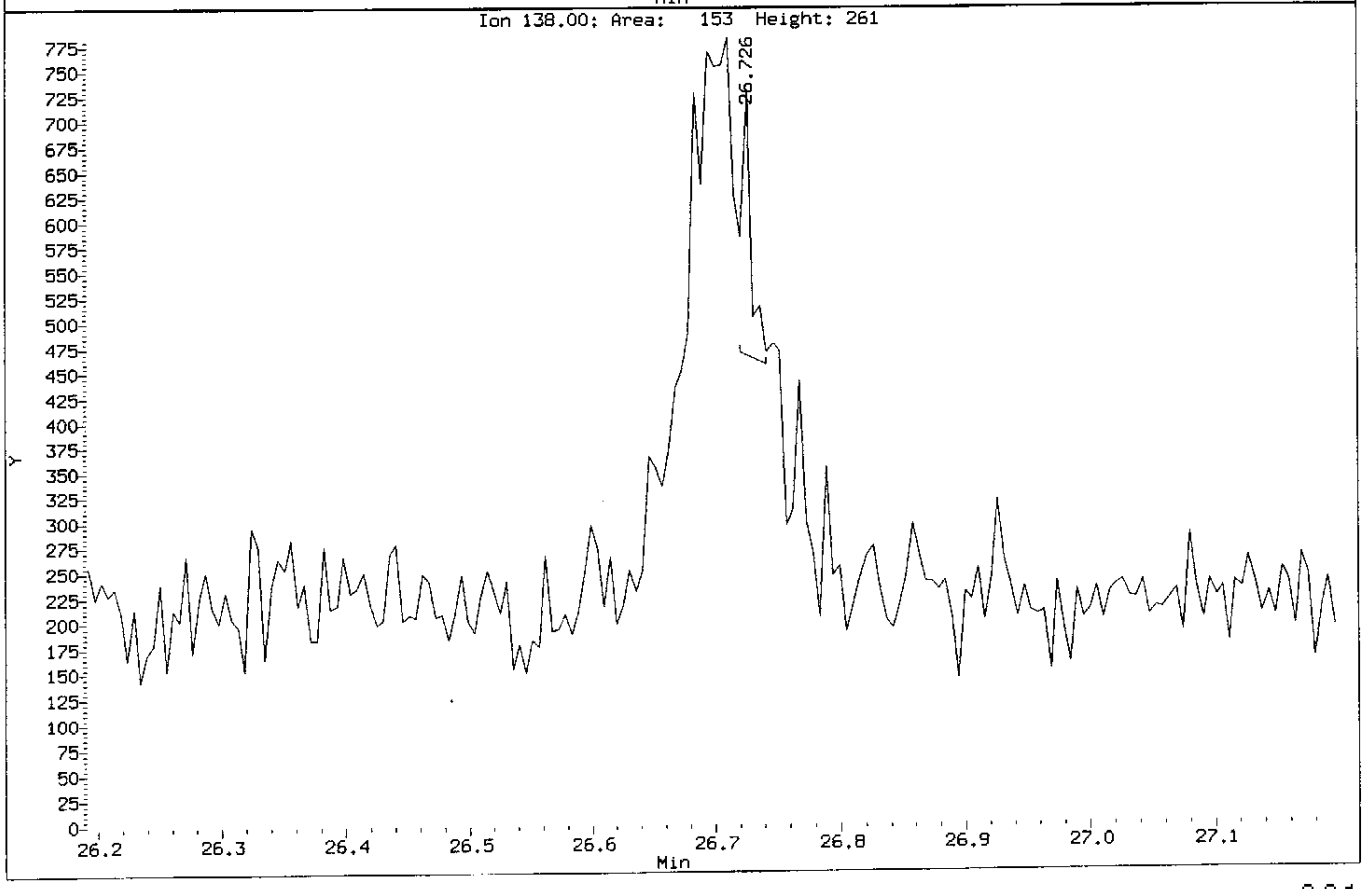
Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3



Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6812.D
Injection Date: 28-JAN-2005 11:19
Instrument: S4.i
Client Sample ID: SSTD0.14A

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



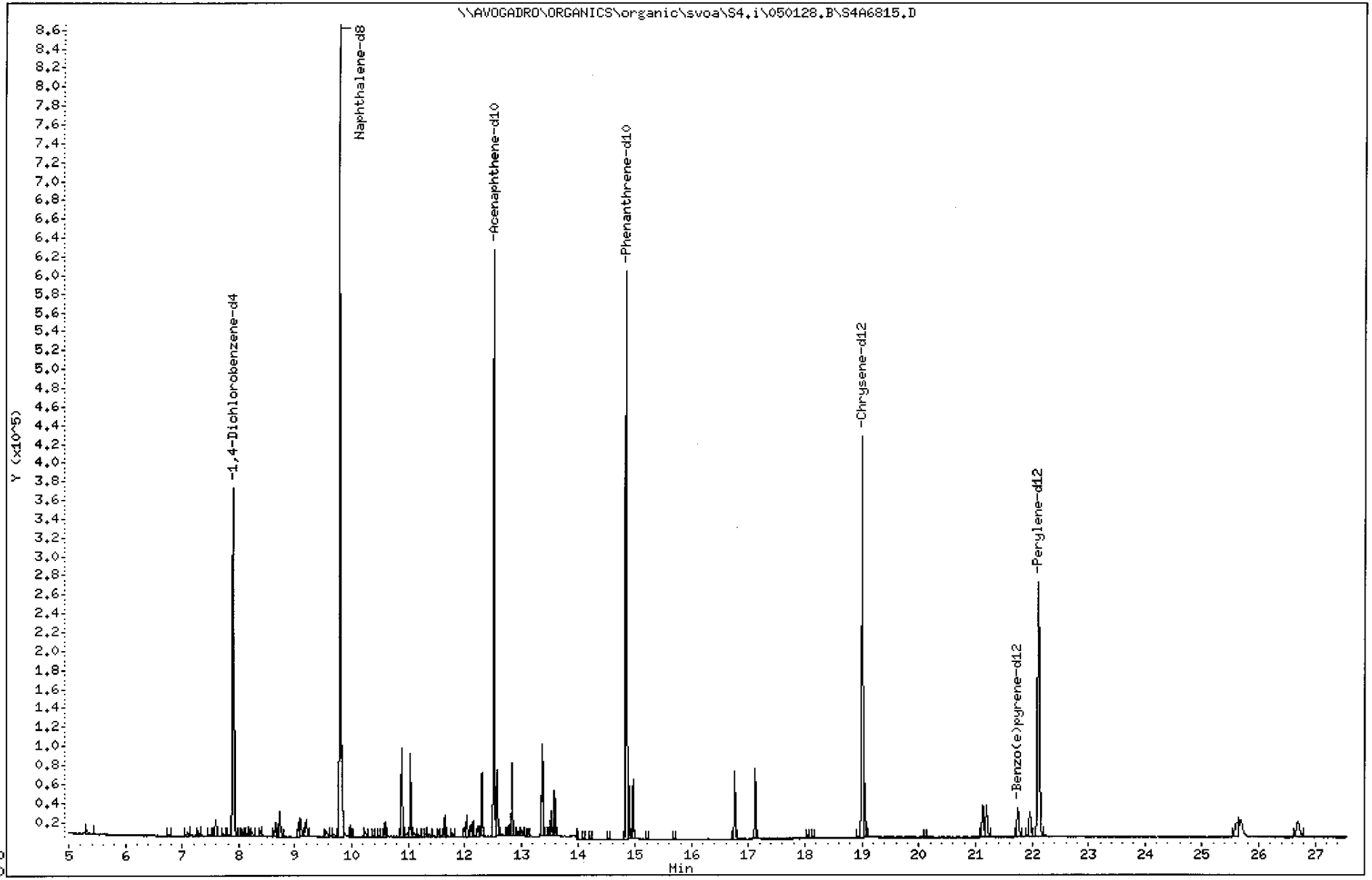


Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6815.D
Date : 28-JAN-2005 13:14
Client ID: SSTD0.54A
Sample Info: SSTD0.54A,SSTD0.54A

Instrument: S4.i

Operator: AW SRC: AW
Column diameter: 0.25

Column phase: DB-5MS



Data File: S4A6815.D
Report Date: 01-Feb-2005 12:08

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6815.D
Lab Smp Id: SSTD0.54A Client Smp ID: SSTD0.54A
Inj Date : 28-JAN-2005 13:14
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0.54A,SSTD0.54A
Misc Info : 1,2,SSTD0.5,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 15:19 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 30 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 1,4-Dichlorobenzene-d4	152	7.899	7.909	(1.000)	326416	5.00000	(T)
*	4 Naphthalene-d8	136	9.792	9.792	(1.000)	962850	5.00000	
	5 Naphthalene	128	9.822	9.822	(1.003)	89491	0.50000	0.48 (T)
	7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	50963	0.50000	0.46
	8 1-Methylnaphthalene	142	11.040	10.879	(1.128)	50582	0.50000	0.47
	11 Acenaphthylene	152	12.299	12.299	(0.983)	77391	0.50000	0.47 (T)
*	12 Acenaphthene-d10	164	12.510	12.510	(1.000)	471691	5.00000	(T)
	13 Acenaphthene	153	12.561	12.561	(1.004)	46690	0.50000	0.46
	15 Fluorene	166	13.366	13.366	(1.068)	51985	0.50000	0.46
*	16 Phenanthrene-d10	188	14.843	14.843	(1.000)	686769	5.00000	
	17 Phenanthrene	178	14.882	14.883	(1.003)	78105	0.50000	0.50 (T)
	18 Anthracene	178	14.965	14.961	(1.008)	71068	0.50000	0.48 (T)
	20 Fluoranthene	202	16.751	16.751	(1.129)	82689	0.50000	0.50
	21 Pyrene	202	17.116	17.116	(0.901)	86216	0.50000	0.49
	23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	75660	0.50000	0.48
*	24 Chrysene-d12	240	19.006	19.006	(1.000)	536242	5.00000	
	25 Chrysene	228	19.048	19.049	(1.002)	72520	0.50000	0.49
	26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	68260	0.50000	0.49
	27 Benzo(k)fluoranthene	252	21.194	21.194	(0.958)	66448	0.50000	0.47
$	29 Benzo(e)pyrene-d12	264	21.754	21.896	(0.984)	50948	0.50000	0.52
	28 Benzo(a)pyrene	252	21.960	21.965	(0.993)	59985	0.50000	0.48
*	30 Perylene-d12	264	22.113	22.108	(1.000)	451325	5.00000	
	31 Indeno(1,2,3-cd)pyrene	276	25.605	25.606	(1.158)	63612	0.50000	0.46 (M) MT
	32 Dibenzo(a,h)anthracene	278	25.685	25.685	(1.162)	46057	0.50000	0.46
	33 Benzo(g,h,i)perylene	276	26.704	26.699	(1.208)	60071	0.50000	0.48 (M) MT

peak not integrated 02/01/05 AW

02/01/05

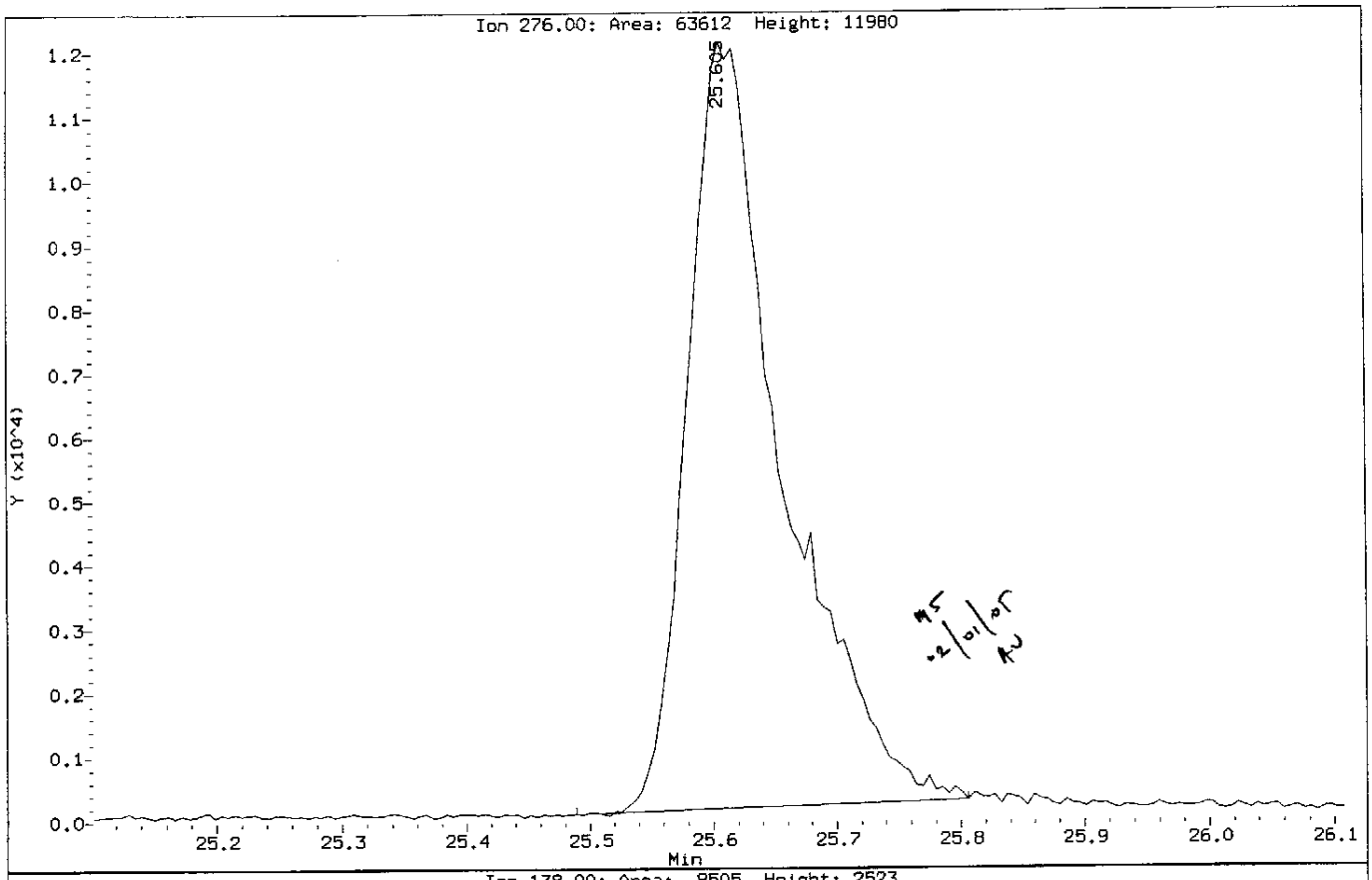
Data File: S4A6815.D
Report Date: 01-Feb-2005 12:08

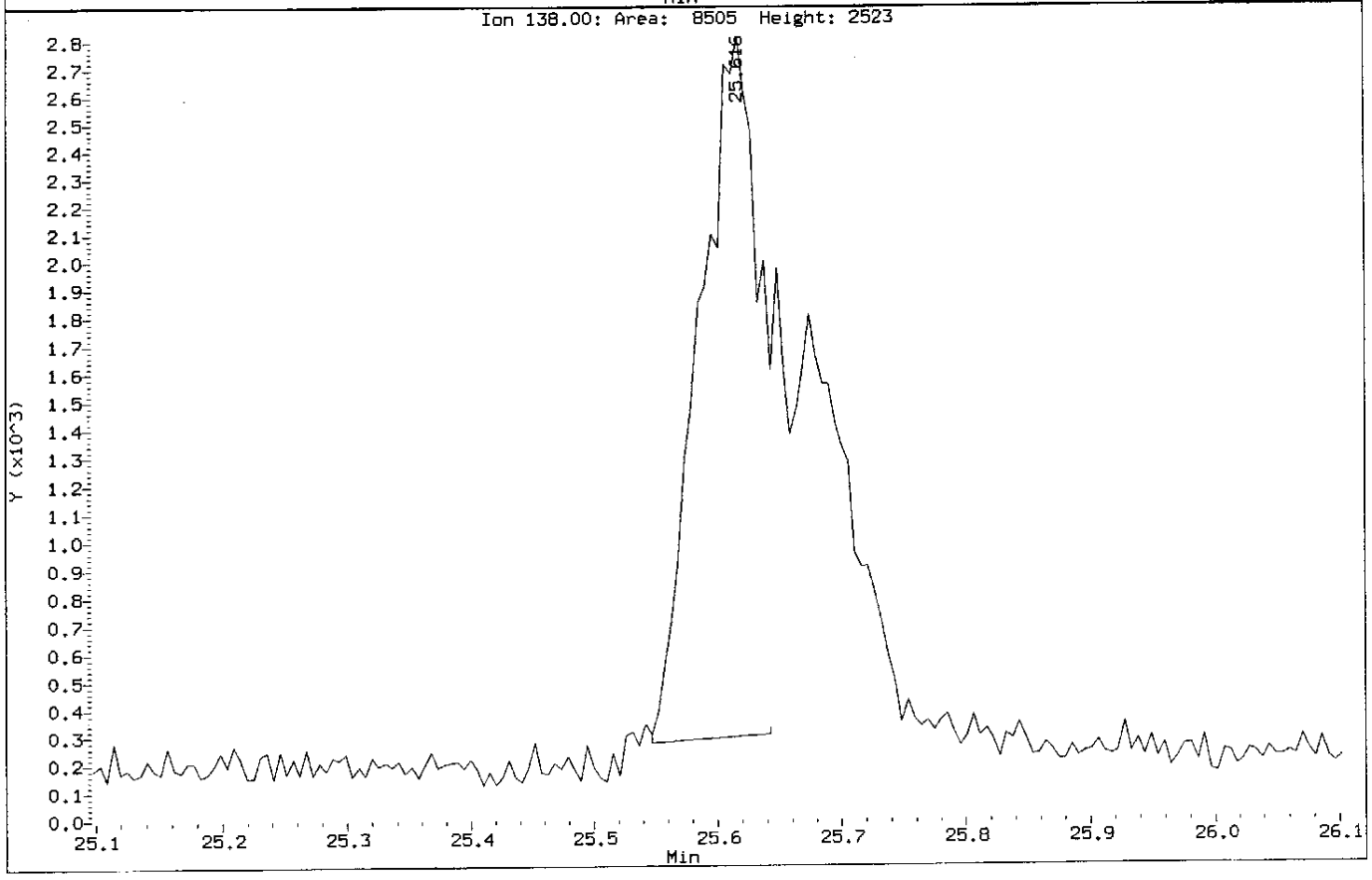
QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6815.D
Injection Date: 28-JAN-2005 13:14
Instrument: S4.i
Client Sample ID: SSTD0.54A

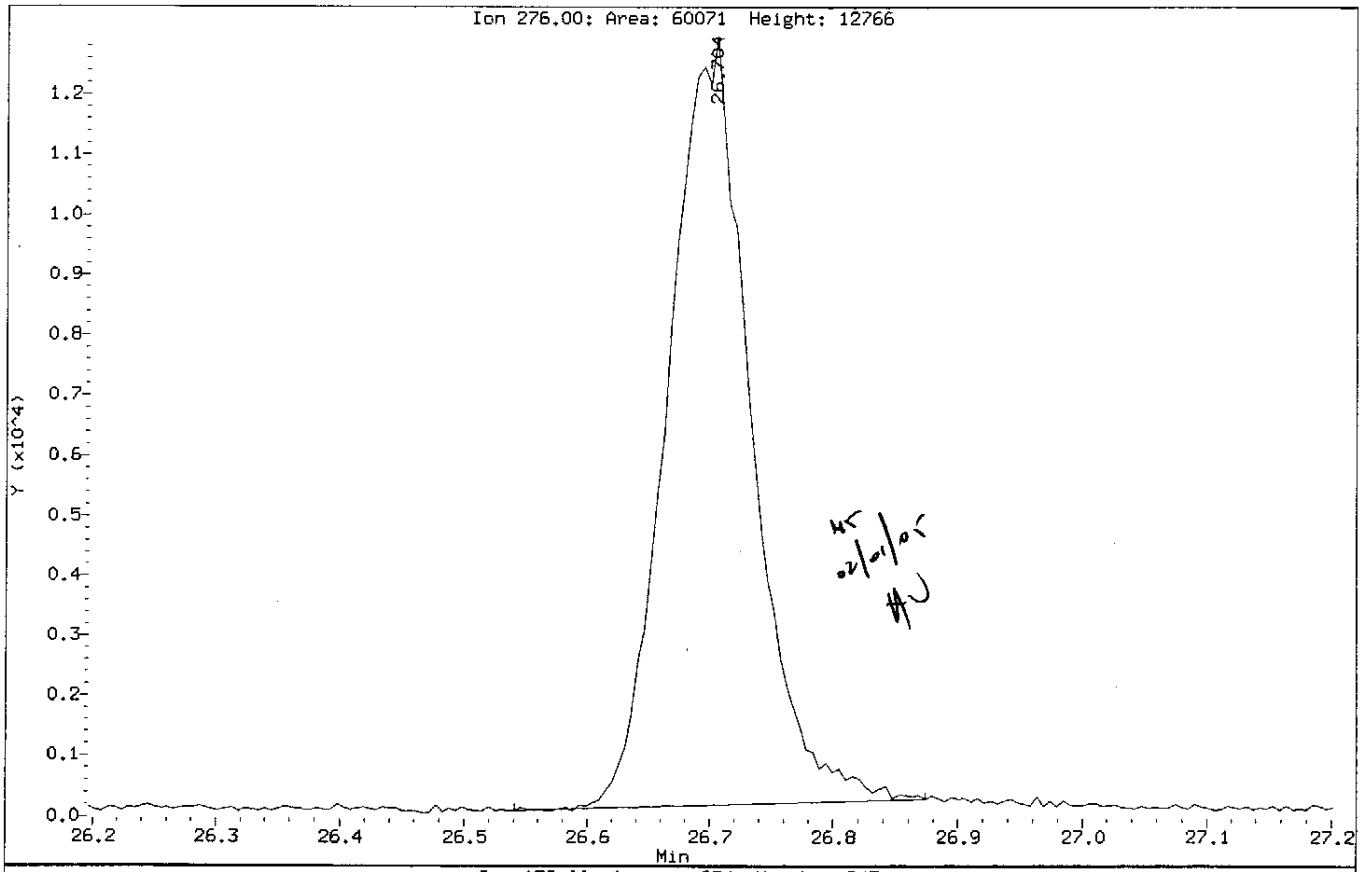
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

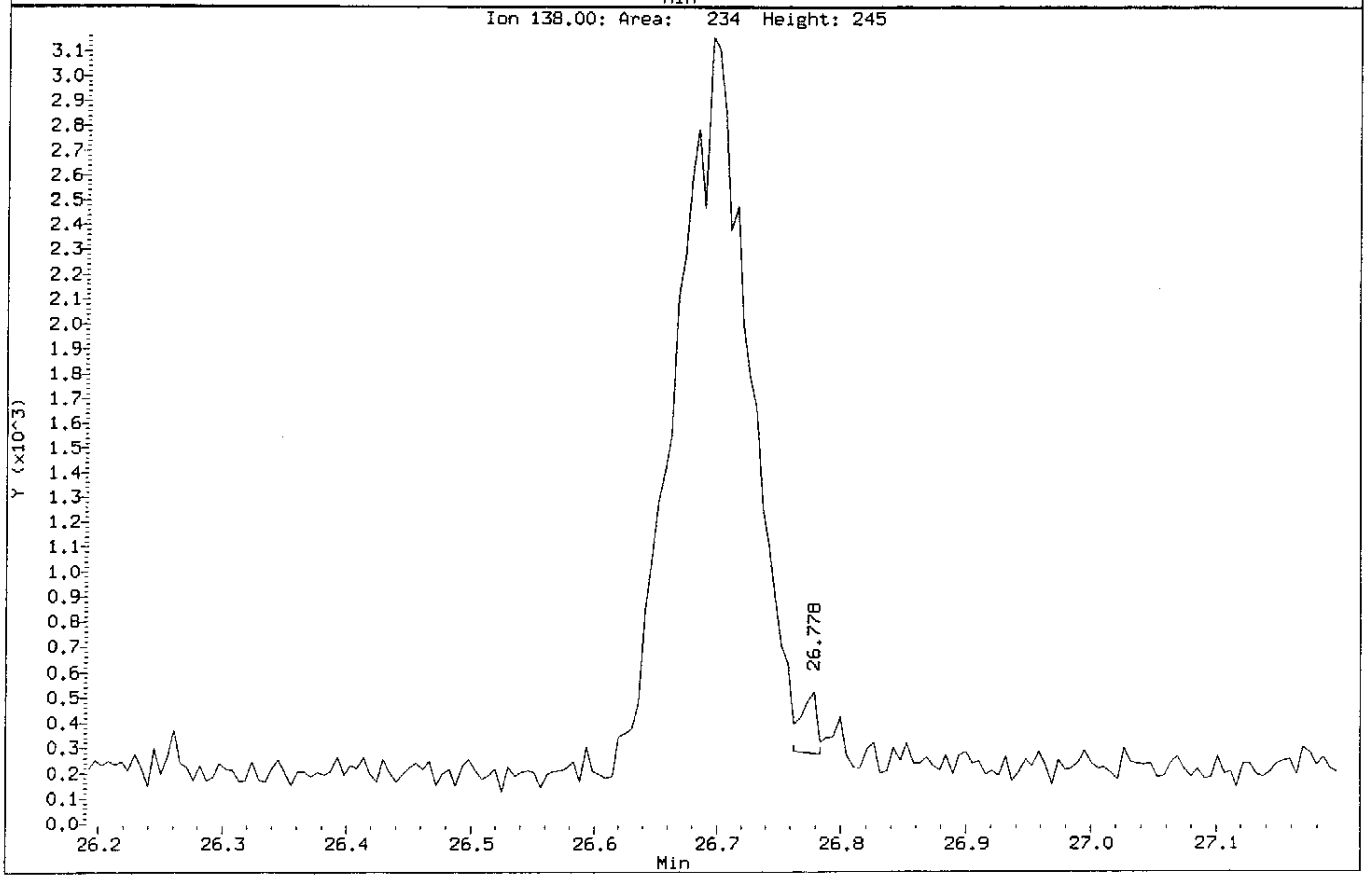




Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6815.D
Injection Date: 28-JAN-2005 13:14
Instrument: S4.i
Client Sample ID: SSTD0.54A

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





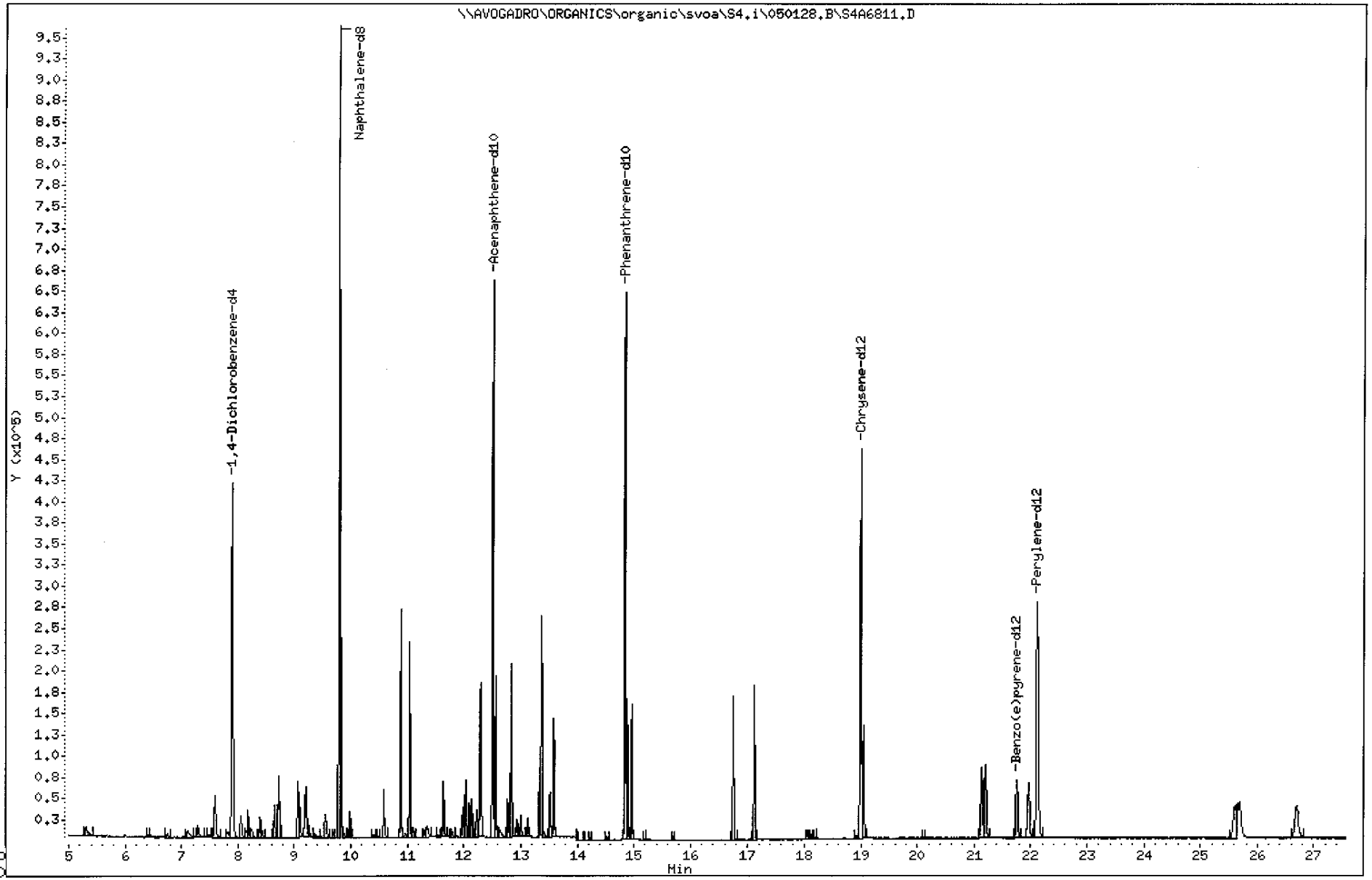
Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6811.D
Date : 28-JAN-2005 10:41
Client ID: SSTD0014A
Sample Info: SSTD0014A,SSTD0014A

Instrument: S4.i

Operator: AW SRC: AW

Column phase: DB-5MS

Column diameter: 0.25



0320

Data File: S4A6811.D
Report Date: 01-Feb-2005 12:08

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6811.D
Lab Smp Id: SSTD0014A Client Smp ID: SSTD0014A
Inj Date : 28-JAN-2005 10:41
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0014A,SSTD0014A
Misc Info : 3,2,SSTD001,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 15:19 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 10:41 Cal File: S4A6811.D
Als bottle: 26 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.909	(1.000)	356697	5.00000	(T)
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1045293	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	232984	1.00000	1.0(T)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	138088	1.00000	1.0
8 1-Methylnaphthalene	142	11.040	10.879	(1.128)	133615	1.00000	1.0
11 Acenaphthylene	152	12.299	12.299	(0.983)	202986	1.00000	1.0(T)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	488928	5.00000	(T)
13 Acenaphthene	153	12.561	12.561	(1.004)	125811	1.00000	1.0
15 Fluorene	166	13.366	13.366	(1.068)	139283	1.00000	1.0
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	739100	5.00000	
17 Phenanthrene	178	14.882	14.883	(1.003)	187286	1.00000	1.0(T)
18 Anthracene	178	14.965	14.961	(1.008)	179463	1.00000	1.0(T)
20 Fluoranthene	202	16.751	16.751	(1.129)	197459	1.00000	1.0
21 Pyrene	202	17.116	17.116	(0.901)	206288	1.00000	1.0
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	182715	1.00000	1.0
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	555985	5.00000	
25 Chrysene	228	19.054	19.049	(1.002)	177361	1.00000	1.0
26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	164295	1.00000	1.0
27 Benzo(k)fluoranthene	252	21.194	21.194	(0.958)	167834	1.00000	1.0
$ 29 Benzo(e)pyrene-d12	264	21.754	21.896	(0.984)	111727	1.00000	1.0
28 Benzo(a)pyrene	252	21.965	21.965	(0.993)	147584	1.00000	1.0
* 30 Perylene-d12	264	22.113	22.108	(1.000)	474677	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.616	25.606	(1.158)	152150	1.00000	1.0
32 Dibenzo(a,h)anthracene	278	25.690	25.685	(1.162)	112228	1.00000	1.0
33 Benzo(g,h,i)perylene	276	26.694	26.699	(1.207)	141363	1.00000	1.0

02/01/05
AW

Data File: S4A6811.D
Report Date: 01-Feb-2005 12:08

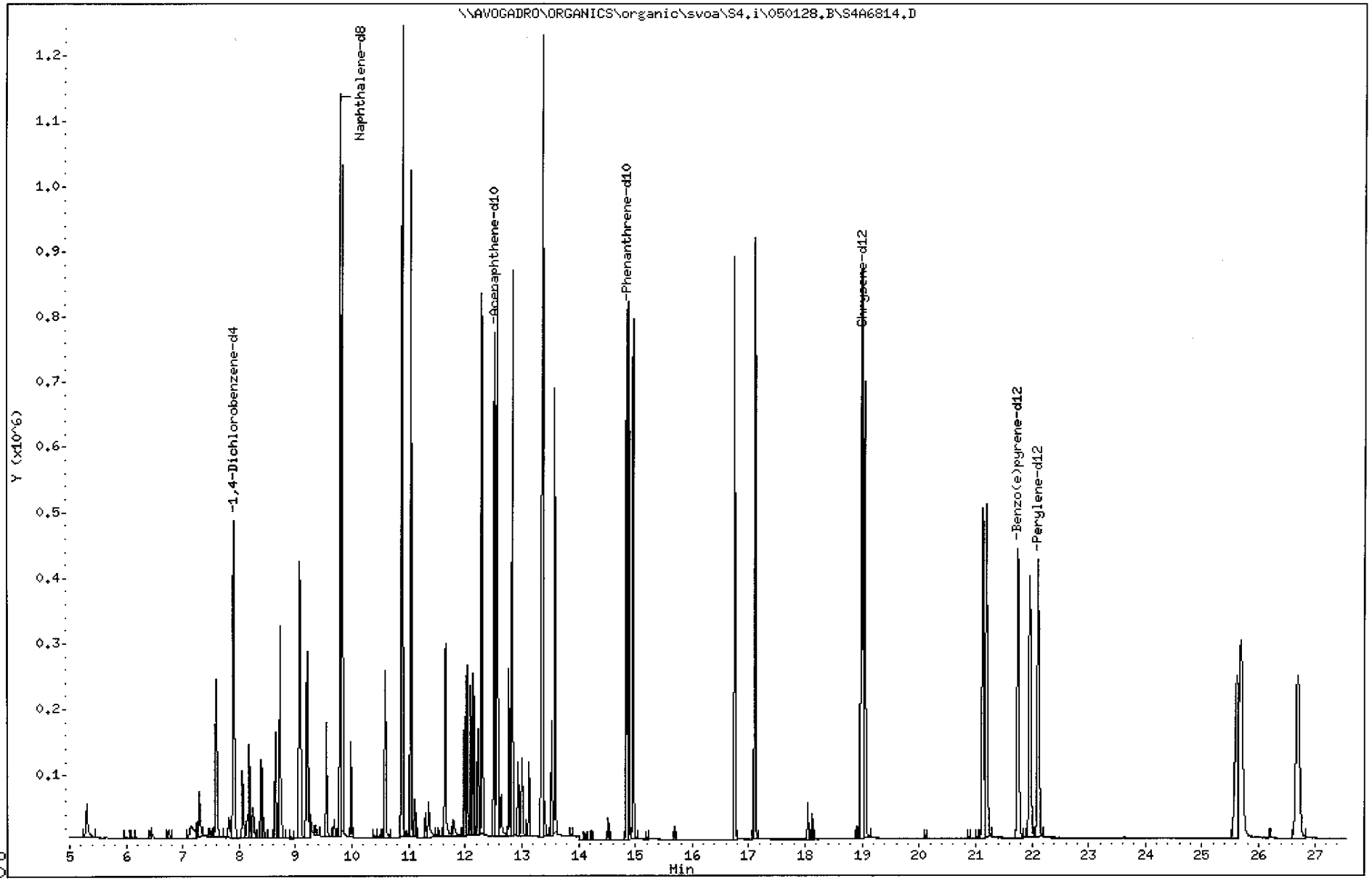
QC Flag Legend

T - Target compound detected outside RT window.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6814.D
Date : 28-JAN-2005 12:36
Client ID: SSTD0054A
Sample Info: SSTD0054A,SSTD0054A

Instrument: S4.i

Operator: AW SRC: AW
Column phase: DB-5MS
Column diameter: 0.25



0323

Data File: S4A6814.D
Report Date: 01-Feb-2005 12:08

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6814.D
Lab Smp Id: SSTD0054A Client Smp ID: SSTD0054A
Inj Date : 28-JAN-2005 12:36
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0054A,SSTD0054A
Misc Info : 1,4,SSTD005,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 15:19 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 12:36 Cal File: S4A6814.D
Als bottle: 29 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.909	(1.000)	409245	5.00000	(T)
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1230657	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	1029092	5.00000	4.3 (T)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	629330	5.00000	4.4
8 1-Methylnaphthalene	142	11.040	10.879	(1.128)	609878	5.00000	4.4
11 Acenaphthylene	152	12.289	12.299	(0.982)	926133	5.00000	4.4 (T)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	604481	5.00000	(T)
13 Acenaphthene	153	12.561	12.561	(1.004)	565643	5.00000	4.3
15 Fluorene	166	13.366	13.366	(1.068)	648615	5.00000	4.4
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	950027	5.00000	
17 Phenanthrene	178	14.882	14.883	(1.003)	925123	5.00000	4.3 (T)
18 Anthracene	178	14.965	14.961	(1.008)	925700	5.00000	4.5 (T)
20 Fluoranthene	202	16.751	16.751	(1.129)	1012154	5.00000	4.4
21 Pyrene	202	17.116	17.116	(0.901)	1056337	5.00000	4.0
23 Benzo(a)anthracene	228	18.990	18.985	(0.999)	997904	5.00000	4.2
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	791368	5.00000	
25 Chrysene	228	19.054	19.049	(1.002)	952350	5.00000	4.3
26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	960074	5.00000	4.4
27 Benzo(k)fluoranthene	252	21.194	21.194	(0.958)	985355	5.00000	4.4
$ 29 Benzo(e)pyrene-d12	264	21.754	21.896	(0.984)	698924	5.00000	4.6
28 Benzo(a)pyrene	252	21.965	21.965	(0.993)	898577	5.00000	4.6
* 30 Perylene-d12	264	22.113	22.108	(1.000)	699318	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.616	25.606	(1.158)	1013238	5.00000	4.7
32 Dibenzo(a,h)anthracene	278	25.690	25.685	(1.162)	774074	5.00000	4.8
33 Benzo(g,h,i)perylene	276	26.694	26.699	(1.207)	880776	5.00000	4.4

02/01/05

Data File: S4A6814.D
Report Date: 01-Feb-2005 12:08

QC Flag Legend

T - Target compound detected outside RT window.

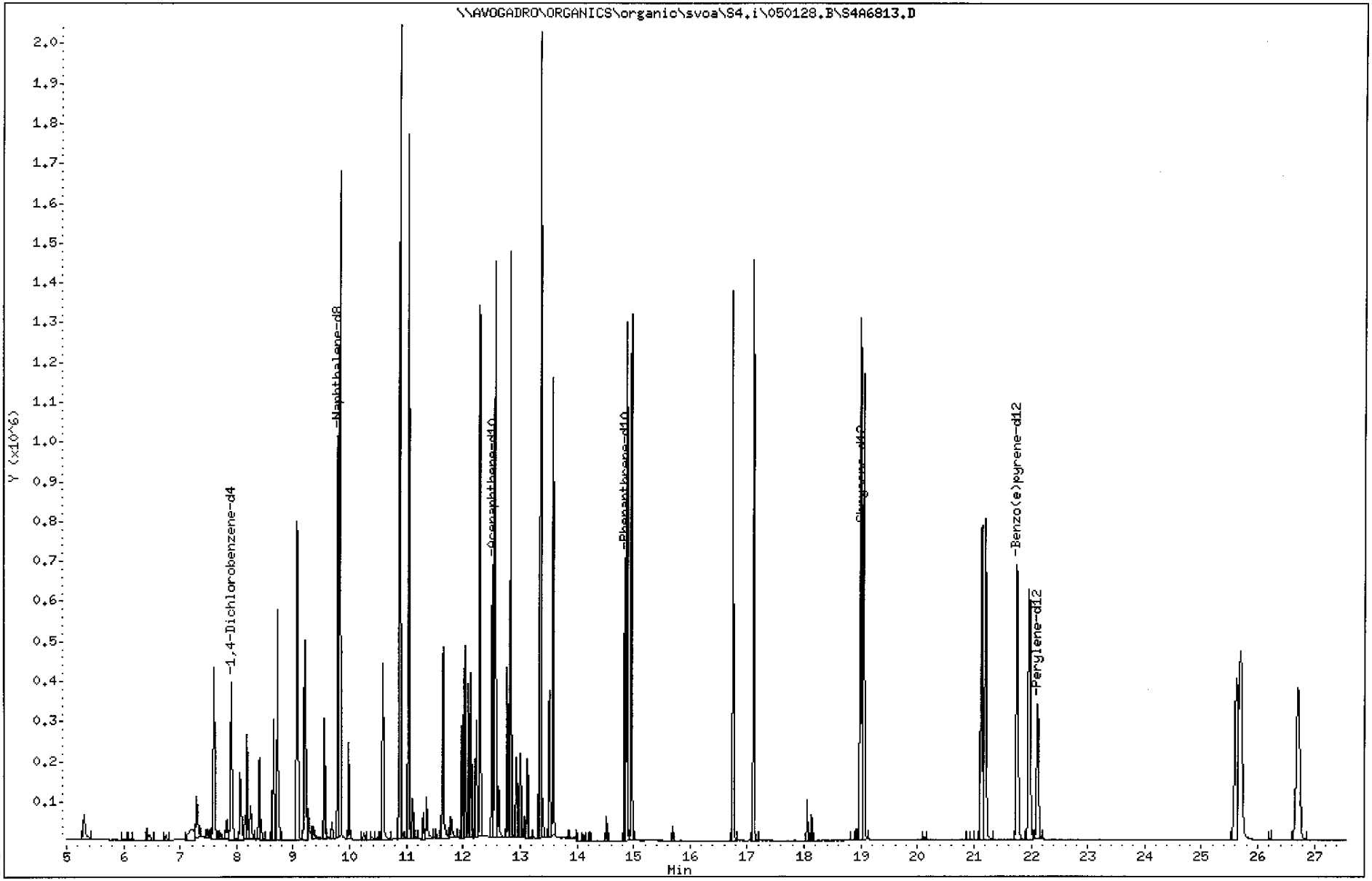
Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6813.D
Date : 28-JAN-2005 11:59
Client ID: SSTD0104A
Sample Info: SSTD0104A,SSTD0104A

Instrument: S4.i

Operator: AW SRC: AW

Column phase: DB-5MS

Column diameter: 0.25



0326

Data File: S4A6813.D
Report Date: 01-Feb-2005 12:08

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6813.D
Lab Smp Id: SSTD0104A Client Smp ID: SSTD0104A
Inj Date : 28-JAN-2005 11:59
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0104A,SSTD0104A
Misc Info : 1,1,SSTD010,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 15:19 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 11:59 Cal File: S4A6813.D
Als bottle: 28 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	7.908	7.909	(1.000)	347481	5.00000	(T)
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	1038061	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	1680550	10.0000	8.0(T)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	1043023	10.0000	8.2
8 1-Methylnaphthalene	142	11.040	10.879	(1.128)	1005764	10.0000	8.2
11 Acenaphthylene	152	12.299	12.299	(0.983)	1536955	10.0000	7.9(T)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	531729	5.00000	(T)
13 Acenaphthene	153	12.560	12.561	(1.004)	968699	10.0000	8.0
15 Fluorene	166	13.366	13.366	(1.068)	1067824	10.0000	7.9
* 16 Phenanthrene-d10	188	14.846	14.843	(1.000)	799886	5.00000	
17 Phenanthrene	178	14.882	14.883	(1.002)	1504991	10.0000	8.0(T)
18 Anthracene	178	14.964	14.961	(1.008)	1502173	10.0000	8.4(T)
20 Fluoranthene	202	16.751	16.751	(1.128)	1611702	10.0000	8.0
21 Pyrene	202	17.116	17.116	(0.901)	1695284	10.0000	7.6
23 Benzo(a)anthracene	228	18.990	18.985	(0.999)	1571490	10.0000	7.8
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	636200	5.00000	
25 Chrysene	228	19.053	19.049	(1.002)	1493343	10.0000	8.0
26 Benzo(b)fluoranthene	252	21.135	21.130	(0.956)	1530495	10.0000	8.3
27 Benzo(k)fluoranthene	252	21.199	21.194	(0.959)	1548698	10.0000	8.2
$ 29 Benzo(e)pyrene-d12	264	21.753	21.896	(0.984)	1118924	10.0000	8.9
28 Benzo(a)pyrene	252	21.970	21.965	(0.994)	1438830	10.0000	8.8
* 30 Perylene-d12	264	22.113	22.108	(1.000)	564694	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.616	25.606	(1.158)	1579543	10.0000	8.8
32 Dibenzo(a,h)anthracene	278	25.695	25.685	(1.162)	1212661	10.0000	9.2
33 Benzo(g,h,i)perylene	276	26.704	26.699	(1.208)	1362902	10.0000	8.2

02/01/05 AL

Data File: S4A6813.D
Report Date: 01-Feb-2005 12:08

QC Flag Legend

T - Target compound detected outside RT window.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/28/05 Time: 14:08

Lab File ID: S4A6817.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014B Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.957	1.098		14.7	
2-Methylnaphthalene	0.576	0.667		15.8	
Acenaphthylene	1.736	2.065		19.0	
Acenaphthene	1.071	1.277		19.2	20.0
Fluorene	1.197	1.427		19.2	
Phenanthrene	1.130	1.281		13.4	
Anthracene	1.075	1.238		15.2	
Fluoranthene	1.213	1.372		13.1	20.0
Pyrene	1.638	1.796		9.6	
Benzo(a)anthracene	1.483	1.631		10.0	
Chrysene	1.389	1.576		13.5	
Benzo(b)fluoranthene	1.553	1.723		10.9	
Benzo(k)fluoranthene	1.573	1.799		14.4	
Benzo(a)pyrene	1.390	1.580		13.7	20.0
Indeno(1,2,3-cd)pyrene	1.524	1.699		11.5	
Dibenzo(a,h)anthracene	1.121	1.244		11.0	
Benzo(g,h,i)perylene	1.400	1.502		7.3	
1-Methylnaphthalene	0.556	0.659		18.5	

All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/28/05 Time: 14:08

Lab File ID: S4A6817.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014B Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\bar{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzo(e)pyrene-d12	1.092	1.157		6.0	

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/31/05 Time: 11:51

Lab File ID: S4A6841.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014C Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Naphthalene	0.957	0.892		-6.8	
2-Methylnaphthalene	0.576	0.575		-0.2	
Acenaphthylene	1.736	1.589		-8.5	
Acenaphthene	1.071	0.967		-9.7	20.0
Fluorene	1.197	1.164		-2.8	
Phenanthrene	1.130	1.023		-9.5	
Anthracene	1.075	1.010		-6.0	
Fluoranthene	1.213	1.132		-6.7	20.0
Pyrene	1.638	1.336		-18.4	
Benzo(a)anthracene	1.483	1.291		-12.9	
Chrysene	1.389	1.242		-10.6	
Benzo(b)fluoranthene	1.553	1.380		-11.1	
Benzo(k)fluoranthene	1.573	1.423		-9.5	
Benzo(a)pyrene	1.390	1.280		-7.9	20.0
Indeno(1,2,3-cd)pyrene	1.524	1.328		-12.9	
Dibenzo(a,h)anthracene	1.121	1.012		-9.7	
Benzo(g,h,i)perylene	1.400	1.168		-16.6	
1-Methylnaphthalene	0.556	0.557		0.2	

All other compounds must meet a minimum RRF of 0.010.

7D

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Mitkem Corporation Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MD0058

Instrument ID: S4 Calibration Date: 01/31/05 Time: 11:51

Lab File ID: S4A6841.D Init. Calib. Date(s): 01/28/05 01/28/05

EPA Sample No.(SSTD050##): SSTD0014C Init. Calib. Times: 10:41 13:14

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Benzo(e)pyrene-d12	1.092	1.018		-6.8	

(1) Cannot be separated from Diphenylamine

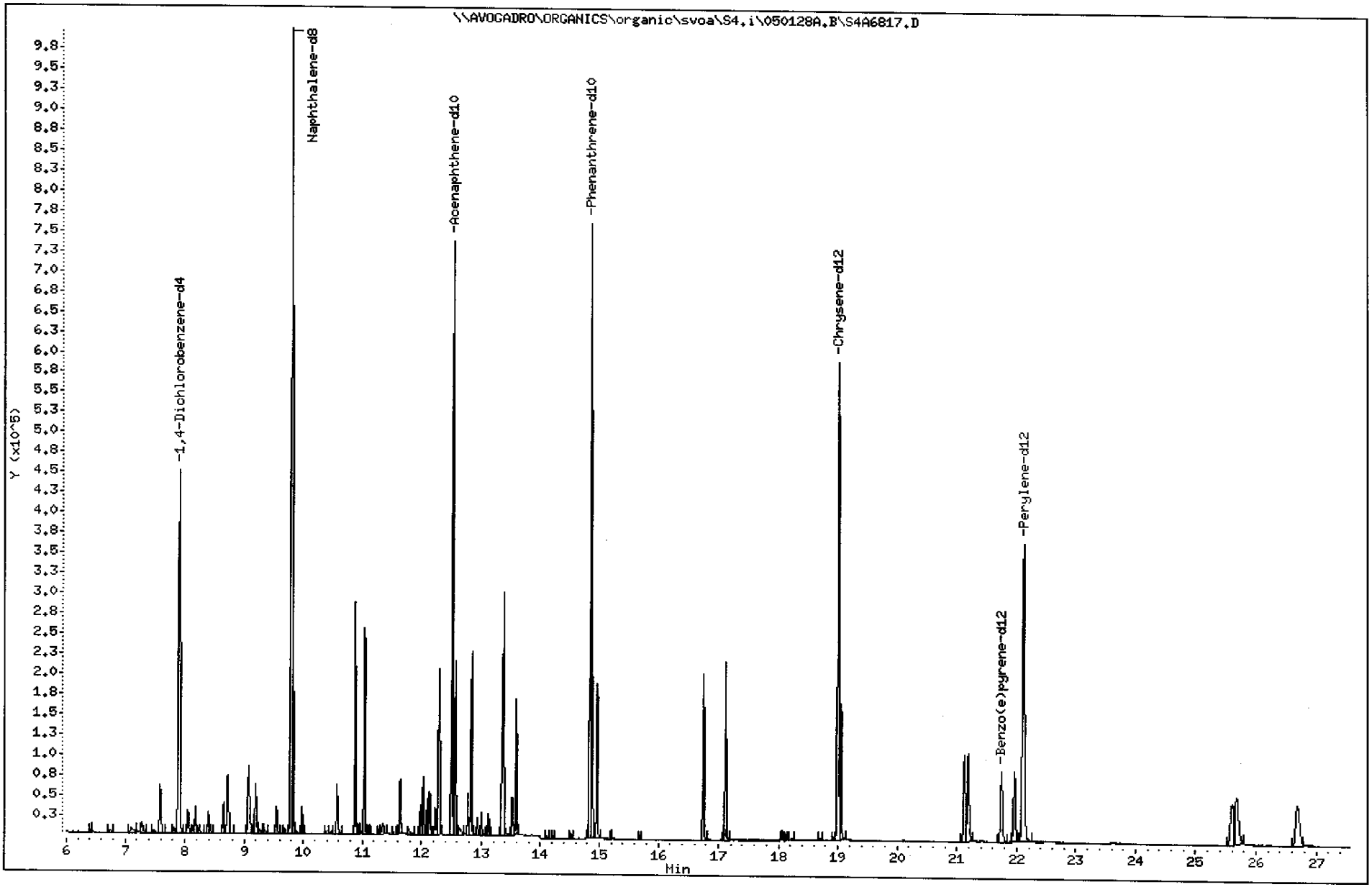
All other compounds must meet a minimum RRF of 0.010.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6817.D
Date : 28-JAN-2005 14:08
Client ID: SSTD0014B
Sample Info: SSTD0014B,SSTD0014B

Instrument: S4.i

Operator: AW SRC: AW
Column diameter: 0.25

Column phase: DB-5MS



Data File: S4A6817.D
Report Date: 28-Jan-2005 14:41

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6817.D
Lab Smp Id: SSTD0014B Client Smp ID: SSTD0014B
Inj Date : 28-JAN-2005 14:08
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0014B,SSTD0014B
Misc Info : 3,2,SSTD001,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 26 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	368104	5.00000	(T)
*	4 Naphthalene-d8	136	9.792	9.792	(1.000)	1128324	5.00000	
	5 Naphthalene	128	9.822	9.822	(1.003)	247679	1.00000	1.1(T)
	7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	150568	1.00000	1.2
	8 1-Methylnaphthalene	142	11.030	11.030	(1.126)	148706	1.00000	1.2
	11 Acenaphthylene	152	12.299	12.299	(0.983)	230514	1.00000	1.2(T)
*	12 Acenaphthene-d10	164	12.510	12.510	(1.000)	558036	5.00000	(T)
	13 Acenaphthene	153	12.561	12.561	(1.004)	142528	1.00000	1.2
	15 Fluorene	166	13.366	13.366	(1.068)	159299	1.00000	1.2
*	16 Phenanthrene-d10	188	14.843	14.843	(1.000)	884882	5.00000	
	17 Phenanthrene	178	14.882	14.882	(1.003)	226674	1.00000	1.1(T)
	18 Anthracene	178	14.965	14.965	(1.008)	219066	1.00000	1.2(T)
	20 Fluoranthene	202	16.751	16.751	(1.129)	242882	1.00000	1.1
	21 Pyrene	202	17.116	17.116	(0.901)	253706	1.00000	1.1
	23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	230424	1.00000	1.1
*	24 Chrysene-d12	240	19.006	19.006	(1.000)	706368	5.00000	
	25 Chrysene	228	19.048	19.048	(1.002)	222682	1.00000	1.1
	26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	209312	1.00000	1.1
	27 Benzo(k)fluoranthene	252	21.194	21.194	(0.959)	218585	1.00000	1.1
$	29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	140523	1.00000	1.0
	28 Benzo(a)pyrene	252	21.960	21.960	(0.993)	191938	1.00000	1.1
*	30 Perylene-d12	264	22.108	22.108	(1.000)	607429	5.00000	
	31 Indeno(1,2,3-cd)pyrene	276	25.600	25.600	(1.158)	206437	1.00000	1.1
	32 Dibenzo(a,h)anthracene	278	25.685	25.685	(1.162)	151177	1.00000	1.1
	33 Benzo(g,h,i)perylene	276	26.689	26.689	(1.207)	182477	1.00000	1.1

KL

02/04/05 AW

Data File: S4A6817.D
Report Date: 28-Jan-2005 14:41

QC Flag Legend

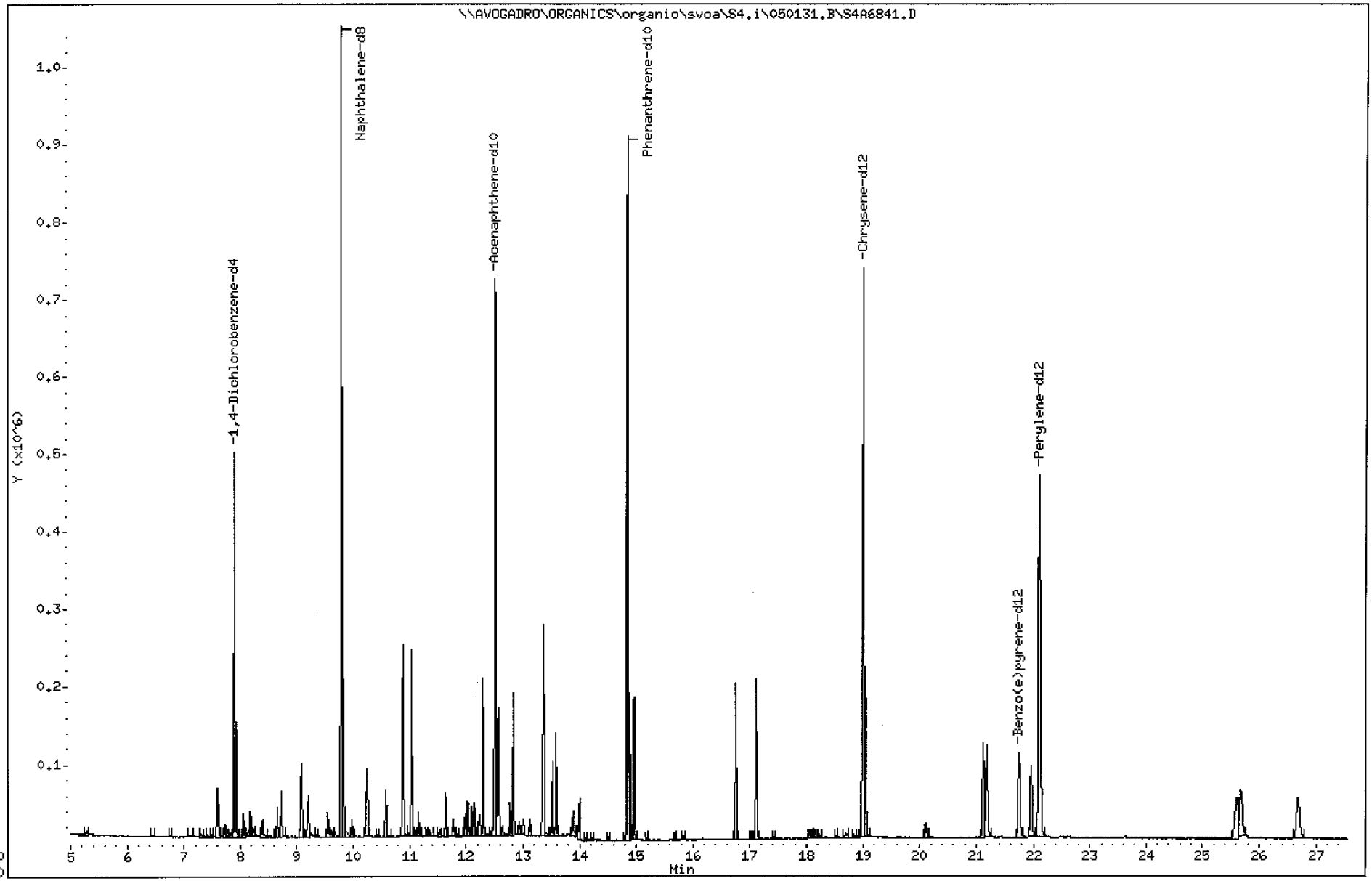
T - Target compound detected outside RT window.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6841.D
Date : 31-JAN-2005 11:51
Client ID: SSTD0014C
Sample Info: SSTD0014C,SSTD0014C

Instrument: S4.i

Operator: AW SRC: AW
Column diameter: 0.25

Column phase: DB-5MS



0336

Data File: S4A6841.D
Report Date: 31-Jan-2005 12:23

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6841.D
Lab Smp Id: SSTD0014C Client Smp ID: SSTD0014C
Inj Date : 31-JAN-2005 11:51
Operator : AW SRC: AW Inst ID: S4.i
Smp Info : SSTD0014C,SSTD0014C
Misc Info : 3,2,SSTD001,3
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\s4_pah_sim.m
Meth Date : 31-Jan-2005 12:23 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.909	(1.000)	366438	5.00000	(T)
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	1164048	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	207561	1.00000	0.93(T)
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	133900	1.00000	1.00
8 1-Methylnaphthalene	142	11.030	11.030	(1.126)	129639	1.00000	1.0
11 Acenaphthylene	152	12.289	12.289	(0.982)	202915	1.00000	0.92(T)
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	638385	5.00000	(T)
13 Acenaphthene	153	12.561	12.561	(1.004)	123456	1.00000	0.90
15 Fluorene	166	13.366	13.366	(1.068)	148627	1.00000	0.97
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	1040013	5.00000	
17 Phenanthrene	178	14.879	14.879	(1.002)	212792	1.00000	0.90(T)
18 Anthracene	178	14.961	14.961	(1.008)	210089	1.00000	0.94(T)
20 Fluoranthene	202	16.748	16.748	(1.128)	235435	1.00000	0.93
21 Pyrene	202	17.113	17.113	(0.900)	246359	1.00000	0.82
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	238029	1.00000	0.87
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	921975	5.00000	
25 Chrysene	228	19.048	19.048	(1.002)	229043	1.00000	0.89
26 Benzo(b)fluoranthene	252	21.125	21.125	(0.956)	224051	1.00000	0.89
27 Benzo(k)fluoranthene	252	21.188	21.188	(0.958)	231041	1.00000	0.90
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	165251	1.00000	0.93
28 Benzo(a)pyrene	252	21.960	21.960	(0.993)	207952	1.00000	0.92
* 30 Perylene-d12	264	22.108	22.108	(1.000)	812034	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.600	25.600	(1.158)	215610	1.00000	0.87
32 Dibenzo(a,h)anthracene	278	25.674	25.674	(1.161)	164431	1.00000	0.90
33 Benzo(g,h,i)perylene	276	26.683	26.683	(1.207)	189656	1.00000	0.83(Q)

02/04/05 AW

Data File: S4A6841.D
Report Date: 31-Jan-2005 12:23

QC Flag Legend

T - Target compound detected outside RT window.
Q - Qualifier signal failed the ratio test.

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6810.D

Date : 28-JAN-2005 10:19

Client ID: DFTPP4A

Instrument: S4.i

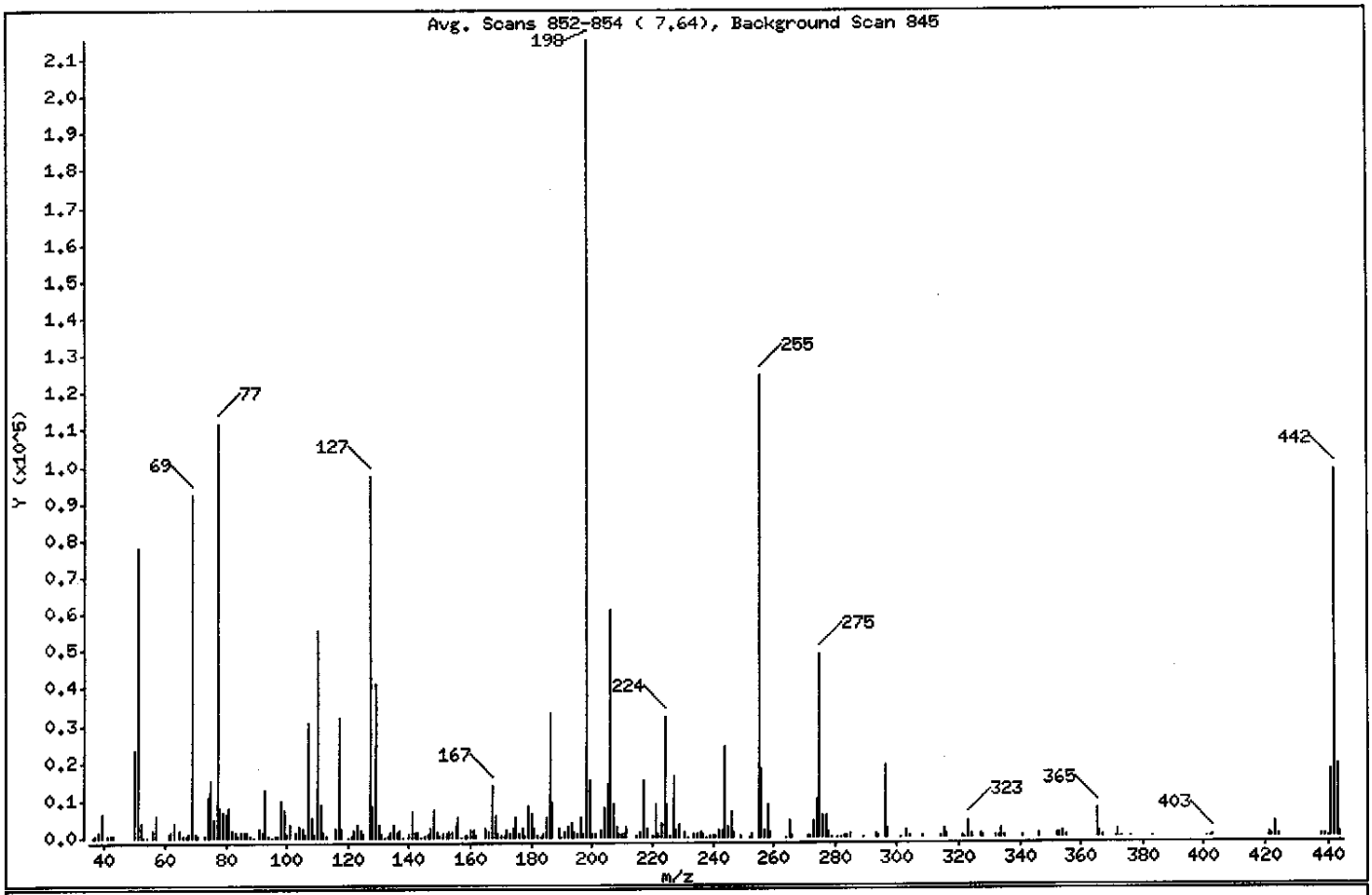
Sample Info: DFTPP4A,DFTPP4A

Operator: AW

Column phase: DB-5MS

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	36.16
68	Less than 2.00% of mass 69	0.36 (0.85)
69	Mass 69 relative abundance	42.79
70	Less than 2.00% of mass 69	0.37 (0.87)
127	40.00 - 60.00% of mass 198	45.27
197	Less than 1.00% of mass 198	0.35
199	5.00 - 9.00% of mass 198	7.12
275	10.00 - 30.00% of mass 198	22.88
365	Greater than 1.00% of mass 198	3.48
441	Present, but less than mass 443	8.31
442	40.00 - 99.99% of mass 198	45.74
443	17.00 - 23.00% of mass 442	9.01 (19.69)

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6810.D

Date : 28-JAN-2005 10:19

Client ID: DFTPP4A

Instrument: S4.i

Sample Info: DFTPP4A,DFTPP4A

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6810.D
Spectrum: Avg. Scans 852-854 (7.64), Background Scan 845
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	170	118.00	2305	189.00	2546	273.00	4291
37.00	720	120.00	207	190.00	196	274.00	10642
38.00	1361	121.00	606	191.00	1526	275.00	49312
39.00	6585	122.00	2068	192.00	3172	276.00	5973
41.00	326	123.00	3492	193.00	3832	277.00	5839
42.00	393	124.00	1913	194.00	1343	278.00	1276
43.00	394	125.00	1136	195.00	746	279.00	190
50.00	23144	127.00	97552	196.00	5549	281.00	192
51.00	77920	128.00	8504	197.00	757	282.00	177
52.00	4036	129.00	41424	198.00	215488	283.00	477
53.00	213	130.00	3339	199.00	15348	284.00	534
54.00	209	131.00	981	200.00	1006	285.00	961
56.00	1801	132.00	176	201.00	1136	289.00	222
57.00	5726	133.00	366	203.00	1902	293.00	967
61.00	1150	134.00	1373	204.00	7747	294.00	276
62.00	1328	135.00	3530	205.00	14476	296.00	19248
63.00	4050	136.00	1560	206.00	61040	297.00	2705
65.00	2041	137.00	1932	207.00	8913	301.00	189
66.00	533	138.00	179	208.00	2964	303.00	1838
67.00	587	140.00	854	209.00	817	304.00	586
68.00	786	141.00	7107	210.00	797	308.00	292
69.00	92216	142.00	1524	211.00	2745	314.00	635
70.00	802	143.00	1386	215.00	569	315.00	2562
71.00	454	144.00	194	216.00	1476	316.00	1050
73.00	264	145.00	291	217.00	15462	321.00	642
74.00	10969	146.00	1054	218.00	2415	322.00	197
75.00	15355	147.00	2608	220.00	262	323.00	4467
76.00	4982	148.00	7645	221.00	9014	324.00	967
77.00	111736	149.00	1344	222.00	750	327.00	1070
78.00	8056	150.00	541	223.00	3736	328.00	436
79.00	6936	151.00	942	224.00	32480	332.00	506
80.00	6282	152.00	814	225.00	8765	333.00	434
81.00	7719	153.00	1357	226.00	634	334.00	2422
82.00	1810	154.00	1439	227.00	16624	335.00	463
83.00	1694	155.00	2959	228.00	2155	341.00	728

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6810.D

Date : 28-JAN-2005 10:19

Client ID: DFTPP4A

Instrument: S4.i

Sample Info: DFTPP4A,DFTPP4A

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6810.D
Spectrum: Avg. Scans 852-854 (7.64), Background Scan 845
Location of Maximum: 198.00
Number of points: 257

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	374	156.00	5596	229.00	3635	346.00	940
85.00	1649	157.00	15	231.00	1490	352.00	1080
86.00	1270	158.00	607	232.00	203	353.00	943
87.00	1288	159.00	702	234.00	1054	354.00	1572
88.00	529	160.00	2135	235.00	1056	355.00	270
89.00	185	161.00	1755	236.00	1343	365.00	7496
91.00	2718	162.00	570	237.00	764	366.00	1449
92.00	1717	165.00	2473	238.00	172	367.00	310
93.00	13002	166.00	1251	239.00	642	371.00	239
94.00	505	167.00	13728	240.00	608	372.00	1951
95.00	171	168.00	5747	241.00	707	373.00	207
96.00	524	169.00	972	242.00	1954	376.00	197
97.00	711	170.00	286	243.00	1998	383.00	193
98.00	9684	171.00	283	244.00	24336	401.00	185
99.00	7695	172.00	1812	245.00	3061	402.00	190
100.00	921	173.00	1129	246.00	6736	403.00	611
101.00	3660	174.00	2261	247.00	1412	421.00	863
103.00	1576	175.00	5489	249.00	559	422.00	329
104.00	2916	176.00	756	252.00	197	423.00	4203
105.00	2582	177.00	2694	253.00	758	424.00	463
106.00	1158	178.00	443	255.00	124528	438.00	521
107.00	30656	179.00	8254	256.00	18360	439.00	706
108.00	5372	180.00	6309	257.00	1954	440.00	224
109.00	996	181.00	2540	258.00	8907	441.00	17912
110.00	55376	182.00	257	259.00	1414	442.00	98568
111.00	8803	183.00	196	264.00	174	443.00	19408
112.00	1513	184.00	921	265.00	4685	444.00	1101
113.00	372	185.00	5394	266.00	673		
116.00	2259	186.00	33304	271.00	253		
117.00	32512	187.00	9377	272.00	491		

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128.B\S4A6810.D

Date : 28-JAN-2005 10:19

Client ID: DFTPP4A

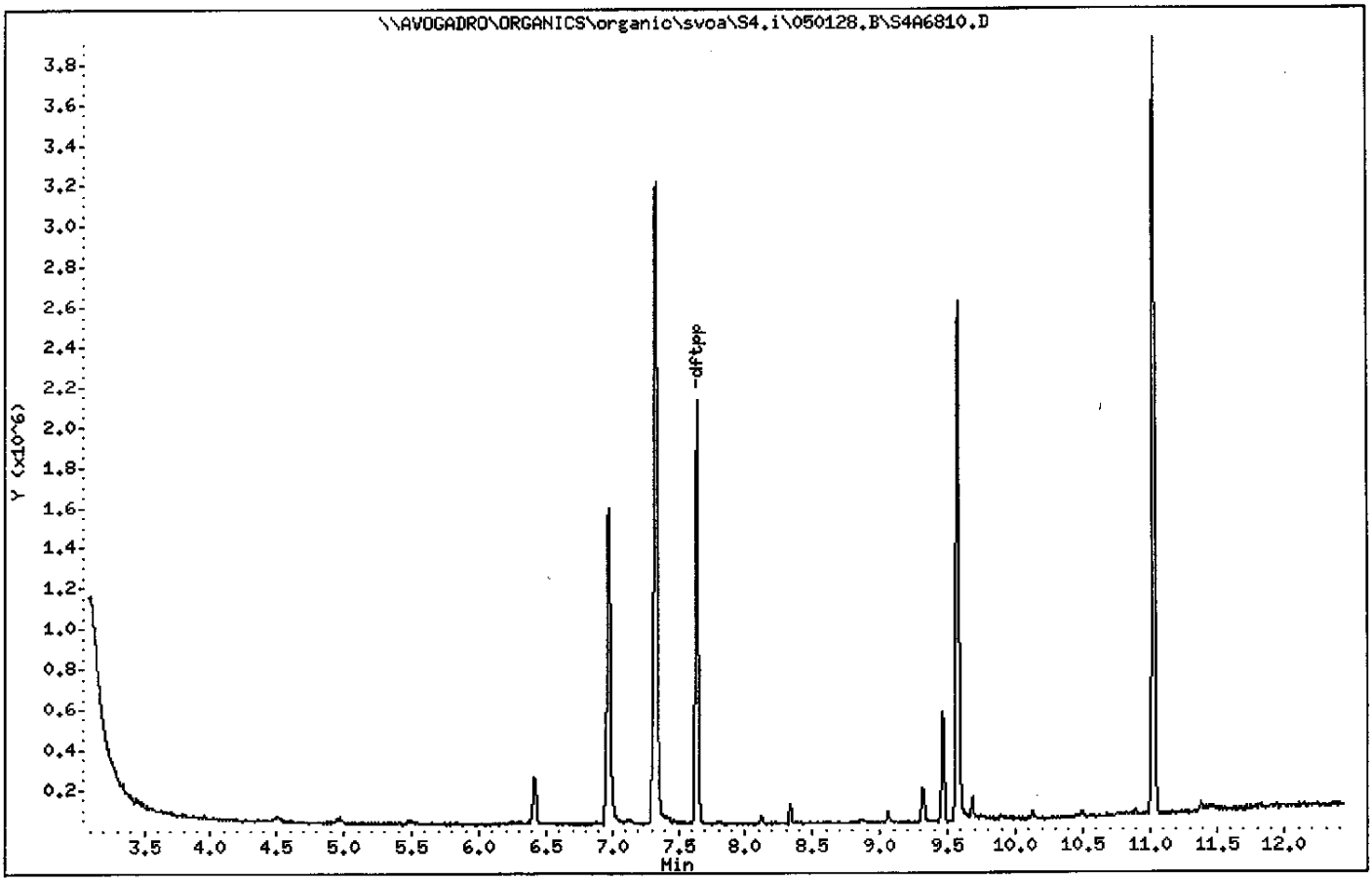
Instrument: S4.i

Sample Info: DFTPP4A,DFTPP4A

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6816.D

Date : 28-JAN-2005 13:46

Client ID: DFTPP4B

Instrument: S4.i

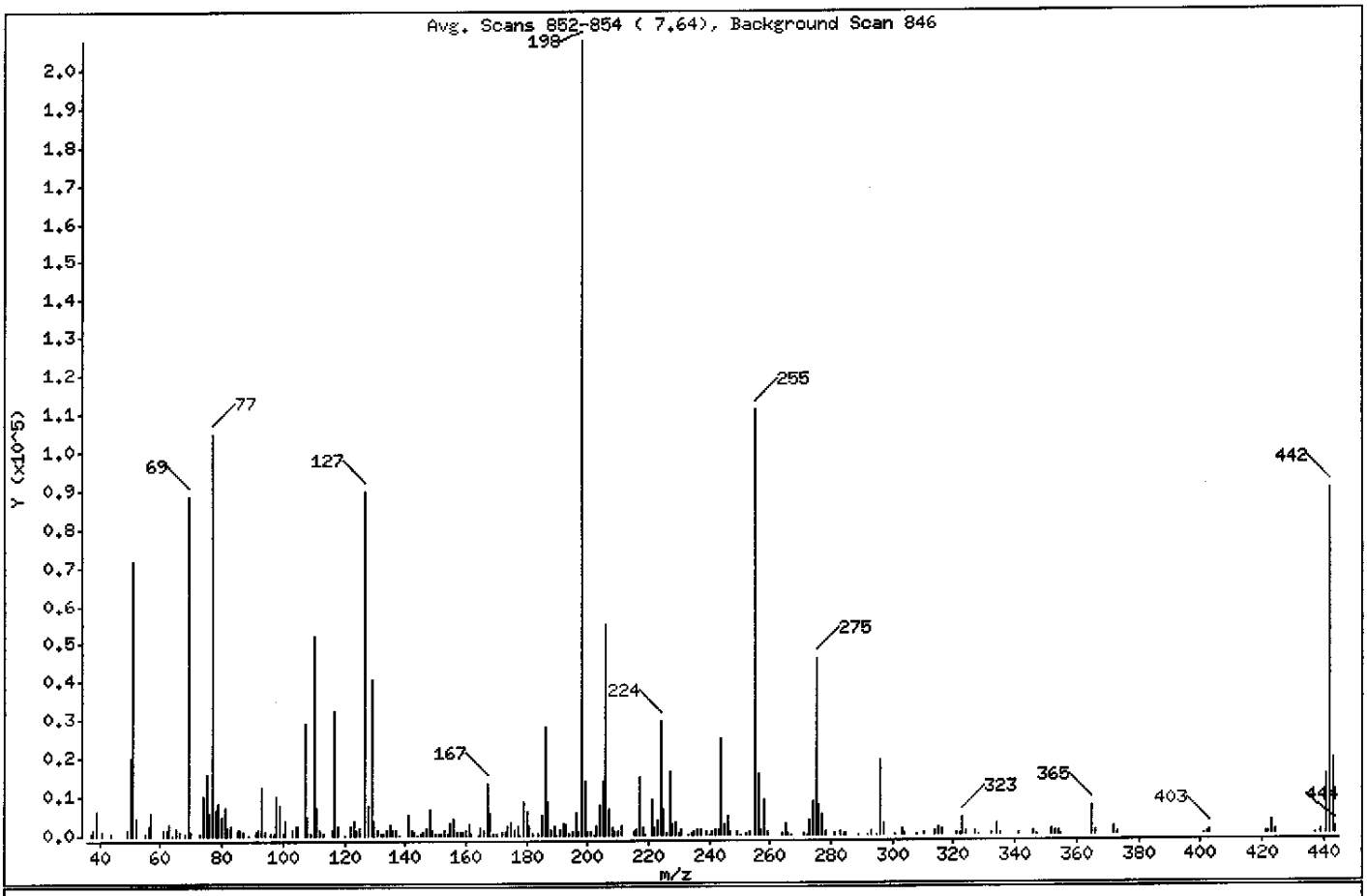
Sample Info: DFTPP4B,DFTPP4B

Operator: AW

Column phase: DB-5MS

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	34.52
68	Less than 2.00% of mass 69	0.17 (0.41)
69	Mass 69 relative abundance	42.53
70	Less than 2.00% of mass 69	0.44 (1.04)
127	40.00 - 60.00% of mass 198	43.29
197	Less than 1.00% of mass 198	0.48
199	5.00 - 9.00% of mass 198	6.63
275	10.00 - 30.00% of mass 198	22.19
365	Greater than 1.00% of mass 198	3.52
441	Present, but less than mass 443	7.25
442	40.00 - 99.99% of mass 198	43.26
443	17.00 - 23.00% of mass 442	9.21 (21.28)

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6816.D

Date : 28-JAN-2005 13:46

Client ID: DFTPP4B

Instrument: S4.i

Sample Info: DFTPP4B,DFTPP4B

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6816.D
Spectrum: Avg. Scans 852-854 (7.64), Background Scan 846
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	660	124.00	1457	192.00	2685	267.00	226
38.00	1274	125.00	1782	193.00	2949	271.00	573
39.00	6121	127.00	89880	194.00	541	272.00	237
41.00	744	128.00	7687	195.00	875	273.00	3678
44.00	590	129.00	40424	196.00	5715	274.00	8694
49.00	1435	130.00	3970	197.00	993	275.00	46072
50.00	20192	131.00	1472	198.00	207616	276.00	7493
51.00	71664	132.00	257	199.00	13775	277.00	5383
52.00	4145	133.00	446	200.00	1047	278.00	926
55.00	348	134.00	1332	201.00	864	281.00	523
56.00	2457	135.00	3081	202.00	206	283.00	864
57.00	5949	136.00	1277	203.00	2345	284.00	459
61.00	1309	137.00	1623	204.00	7564	285.00	592
62.00	1464	138.00	176	205.00	14077	289.00	167
63.00	3072	141.00	5137	206.00	54840	292.00	206
64.00	191	142.00	1279	207.00	6475	293.00	1130
65.00	1863	143.00	1082	208.00	1861	295.00	183
66.00	767	144.00	204	209.00	981	296.00	19168
68.00	359	145.00	250	210.00	760	297.00	2887
69.00	88304	146.00	1126	211.00	2466	301.00	181
70.00	920	147.00	2021	215.00	732	303.00	1530
73.00	589	148.00	6617	216.00	1561	304.00	495
74.00	10285	149.00	1614	217.00	14617	308.00	184
75.00	15810	150.00	259	218.00	1850	310.00	467
76.00	5538	151.00	530	219.00	176	314.00	944
77.00	104792	152.00	596	221.00	9320	315.00	1976
78.00	6570	153.00	1594	222.00	1923	316.00	1232
79.00	7894	154.00	456	223.00	3590	321.00	345
80.00	4637	155.00	3117	224.00	29608	322.00	270
81.00	7339	156.00	4254	225.00	6705	323.00	4311
82.00	1779	157.00	1144	226.00	418	324.00	1149
83.00	2202	158.00	720	227.00	16293	327.00	852
85.00	1464	159.00	1093	228.00	2681	328.00	198
86.00	1649	160.00	1530	229.00	3231	332.00	275
87.00	939	161.00	2858	230.00	629	334.00	2862

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6816.D

Date : 28-JAN-2005 13:46

Client ID: DFTPP4B

Instrument: S4.i

Sample Info: DFTPP4B,DFTPP4B

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6816.D
Spectrum: Avg. Scans 852-854 (7.64), Background Scan 846
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
89.00	190	162.00	488	231.00	1453	335.00	629
91.00	986	164.00	167	233.00	220	341.00	249
92.00	1488	165.00	2061	234.00	580	346.00	1090
93.00	12543	166.00	1503	235.00	819	347.00	172
94.00	956	167.00	13257	236.00	1350	352.00	1293
96.00	477	168.00	5886	237.00	1309	353.00	844
97.00	312	169.00	592	239.00	928	354.00	888
98.00	10131	170.00	469	240.00	227	355.00	218
99.00	7470	172.00	1074	241.00	1061	365.00	7307
100.00	485	173.00	873	242.00	1496	366.00	955
101.00	3877	174.00	2263	243.00	1551	372.00	1765
103.00	1292	175.00	3439	244.00	24840	373.00	384
104.00	2555	176.00	1631	245.00	3087	401.00	178
105.00	2280	177.00	2570	246.00	5006	402.00	581
107.00	29384	178.00	232	247.00	1053	403.00	1119
108.00	4851	179.00	8776	249.00	944	421.00	507
109.00	420	180.00	6179	250.00	172	422.00	365
110.00	52176	181.00	2519	252.00	270	423.00	3570
111.00	7346	182.00	545	253.00	837	424.00	953
112.00	1418	184.00	307	255.00	111104	437.00	227
113.00	298	185.00	5118	256.00	15713	439.00	1014
116.00	1561	186.00	28072	257.00	1367	441.00	15045
117.00	32664	187.00	8823	258.00	9206	442.00	89808
118.00	2189	188.00	1584	259.00	1111	443.00	19112
120.00	181	189.00	2267	264.00	295	444.00	1393
122.00	2327	190.00	169	265.00	2995		
123.00	3610	191.00	1404	266.00	530		

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6816.D

Date : 28-JAN-2005 13:46

Client ID: DFTPP4B

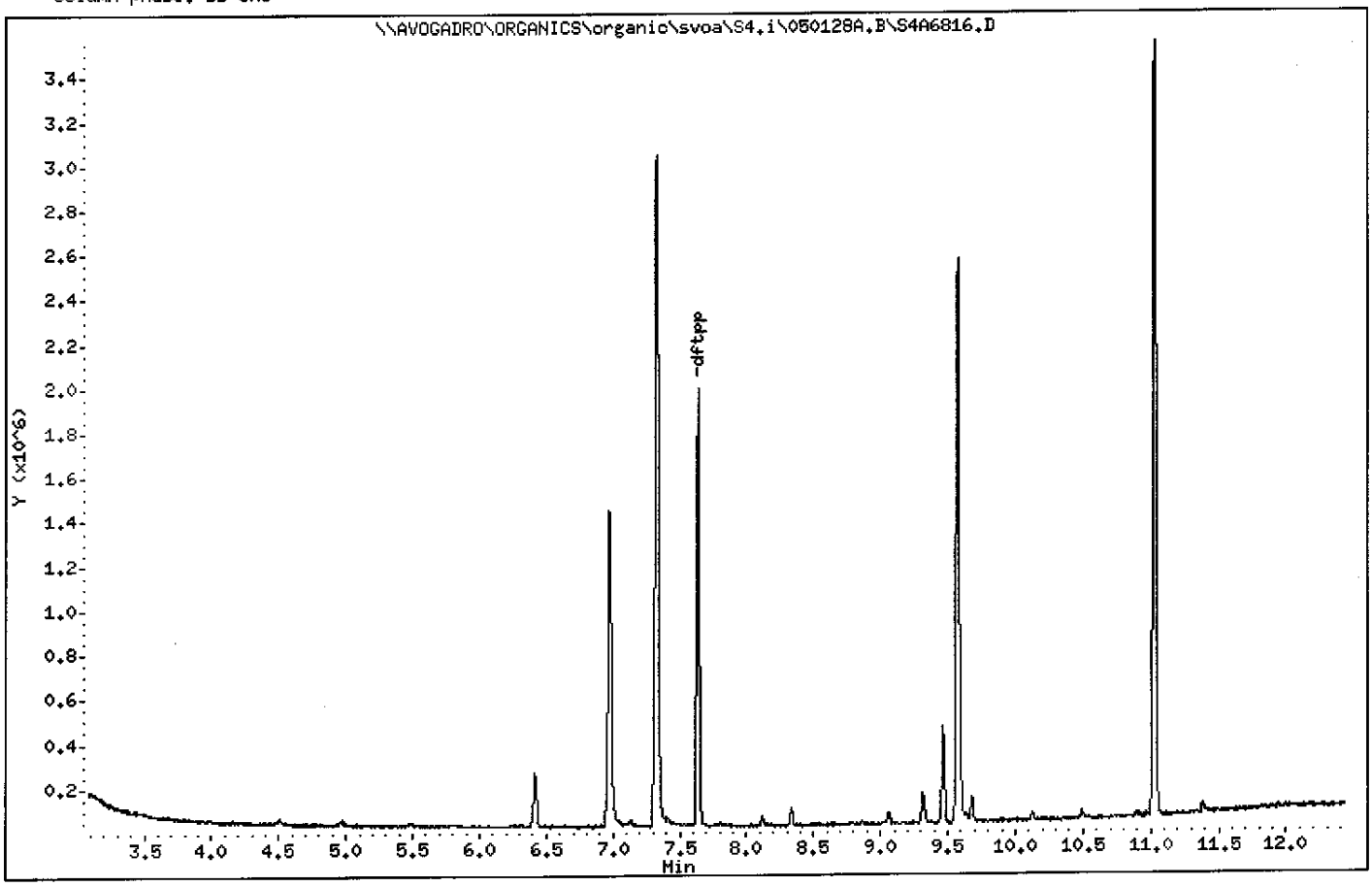
Instrument: S4.i

Sample Info: DFTPP4B,DFTPP4B

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6840.D

Date : 31-JAN-2005 11:29

Client ID: DFTPP4C

Instrument: S4.i

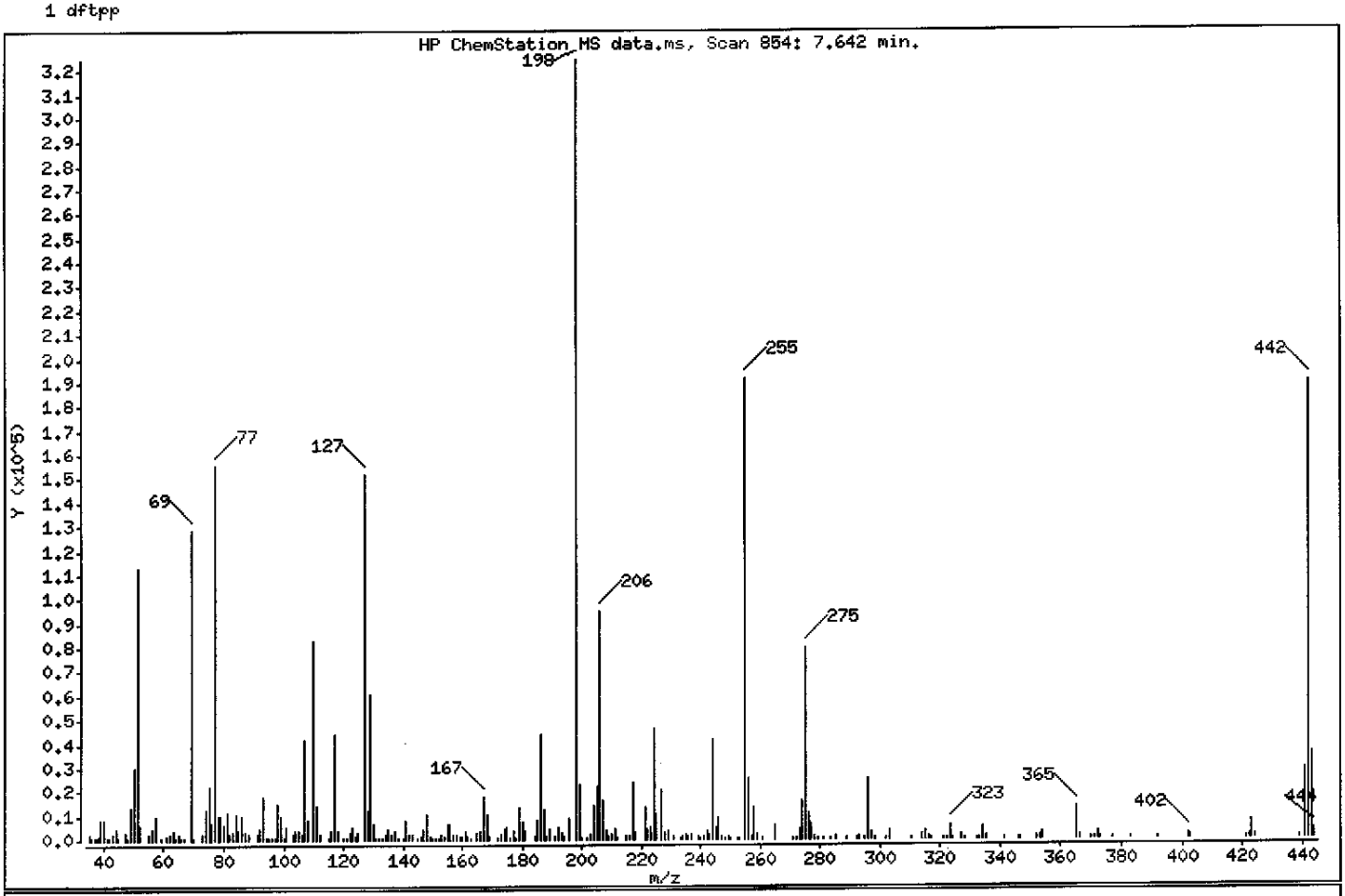
Sample Info: DFTPP4C,DFTPP4C

Operator: AW

Column phase: DB-5MS

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	34.75
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	39.58
70	Less than 2.00% of mass 69	0.32 (0.81)
127	40.00 - 60.00% of mass 198	46.83
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.15
275	10.00 - 30.00% of mass 198	24.70
365	Greater than 1.00% of mass 198	4.10
441	Present, but less than mass 443	8.93
442	40.00 - 99.99% of mass 198	58.48
443	17.00 - 23.00% of mass 442	11.01 (18.82)

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6840.D

Date : 31-JAN-2005 11:29

Client ID: DFTPP4C

Instrument: S4.i

Sample Info: DFTPP4C,DFTPP4C

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6840.D
Spectrum: HP ChemStation MS data.ms, Scan 854: 7.642 min.
Location of Maximum: 198.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	2199	110.00	83392	184.10	1339	271.10	851
36.10	695	111.00	13880	185.00	8305	272.20	597
37.00	774	112.00	2043	186.10	44232	273.00	4603
37.60	767	115.20	687	187.10	13014	274.10	16270
38.20	1379	116.10	3479	188.10	1509	275.00	80192
39.10	7991	117.00	43896	189.00	4134	276.00	11429
40.10	8481	118.00	3769	191.00	1467	277.10	6380
41.10	783	119.90	953	192.00	4937	278.00	1481
42.10	998	121.10	831	193.10	3355	279.10	584
43.10	1929	122.10	2759	194.00	1127	281.00	533
44.10	4647	123.10	5227	196.00	8654	283.10	970
45.10	720	124.00	1818	198.00	324608	285.10	1363
47.10	2828	125.00	2867	199.00	23200	288.80	669
48.10	920	127.00	152000	200.00	1096	292.20	661
49.10	13775	128.10	11630	201.40	819	293.10	1488
50.10	30024	129.00	60328	203.10	2543	295.00	742
51.10	112816	130.10	6509	204.10	13993	296.00	25744
52.10	6237	131.00	1035	205.10	22112	297.00	3182
55.20	1952	132.10	962	206.10	94680	298.00	576
56.10	4114	133.10	695	207.10	16520	302.10	552
57.10	9952	134.00	2316	208.00	3474	303.10	3385
59.10	647	135.00	4356	209.00	1818	310.10	637
61.10	1377	136.10	2116	210.20	2139	314.00	2147
62.10	2359	137.00	3645	211.00	4632	314.90	3537
63.10	3442	138.20	886	211.90	921	316.00	1234
64.10	823	140.20	769	215.00	1213	317.00	558
65.10	2134	141.00	8105	216.10	1575	321.20	907
66.00	645	142.00	2168	217.00	23936	322.10	552
67.10	535	143.00	1920	218.00	2650	323.10	5610
69.00	128480	145.20	773	221.10	13761	324.00	1094
70.10	1037	146.30	1455	221.90	4135	327.00	2258
73.10	2373	147.00	4728	223.10	5588	328.00	1017
74.10	12800	148.00	10536	224.10	46128	332.20	622
75.10	22328	149.10	1428	225.10	10422	333.10	607
76.10	6721	150.00	560	227.00	21080	334.10	5321

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6840.D

Date : 31-JAN-2005 11:29

Client ID: DFTPP4C

Instrument: S4.i

Sample Info: DFTPP4C,DFTPP4C

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25

Data File: S4A6840.D
Spectrum: HP ChemStation MS data.ms, Scan 854: 7.642 min.
Location of Maximum: 198.00
Number of points: 254

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.10	155200	151.20	919	228.20	3350	335.00	1278
78.10	9441	151.90	606	229.10	3582	341.20	555
79.10	9536	152.20	539	231.10	1573	345.80	1007
80.10	6079	153.00	1927	233.00	1020	346.40	1068
81.10	11248	154.00	1742	233.90	1674	351.90	1503
82.10	2386	155.10	6768	234.90	2100	353.10	1279
83.10	2884	156.00	6408	235.90	1589	354.00	2871
84.00	10377	157.20	1880	237.10	2202	365.00	13300
85.00	3592	158.00	1980	239.10	1868	366.00	1657
86.00	9825	159.20	1167	239.90	638	370.10	525
87.10	2837	160.00	1835	241.00	1399	371.00	1057
88.10	2389	161.00	4036	242.20	3505	372.10	2684
91.10	2406	162.00	1177	242.90	2313	373.00	822
92.00	4114	163.20	556	244.10	41832	376.90	506
93.10	18000	165.00	3104	245.10	5433	382.80	604
94.10	688	166.10	3399	246.00	9032	392.20	652
95.20	596	167.10	17872	247.10	1543	402.00	2233
96.10	734	168.00	10287	247.90	1087	402.90	1480
97.10	1056	169.10	1730	249.10	1604	421.00	1067
98.10	15103	171.90	888	250.00	542	422.10	1367
99.10	9441	173.10	2483	252.10	649	423.00	7744
100.10	985	174.00	4384	252.90	910	424.10	1805
101.10	5560	175.00	5265	255.00	191616	439.20	506
103.00	2175	176.00	591	256.00	25480	441.10	28976
104.00	3434	177.00	3804	257.00	1598	442.10	189824
105.00	3394	178.10	1118	258.00	13425	443.10	35728
106.00	2382	179.00	13554	259.00	2332	444.00	3700
107.10	42144	180.00	7410	260.90	581		
108.10	8086	181.10	3965	265.00	5716		

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050131.B\S4A6840.D

Date : 31-JAN-2005 11:29

Client ID: DFTPP4C

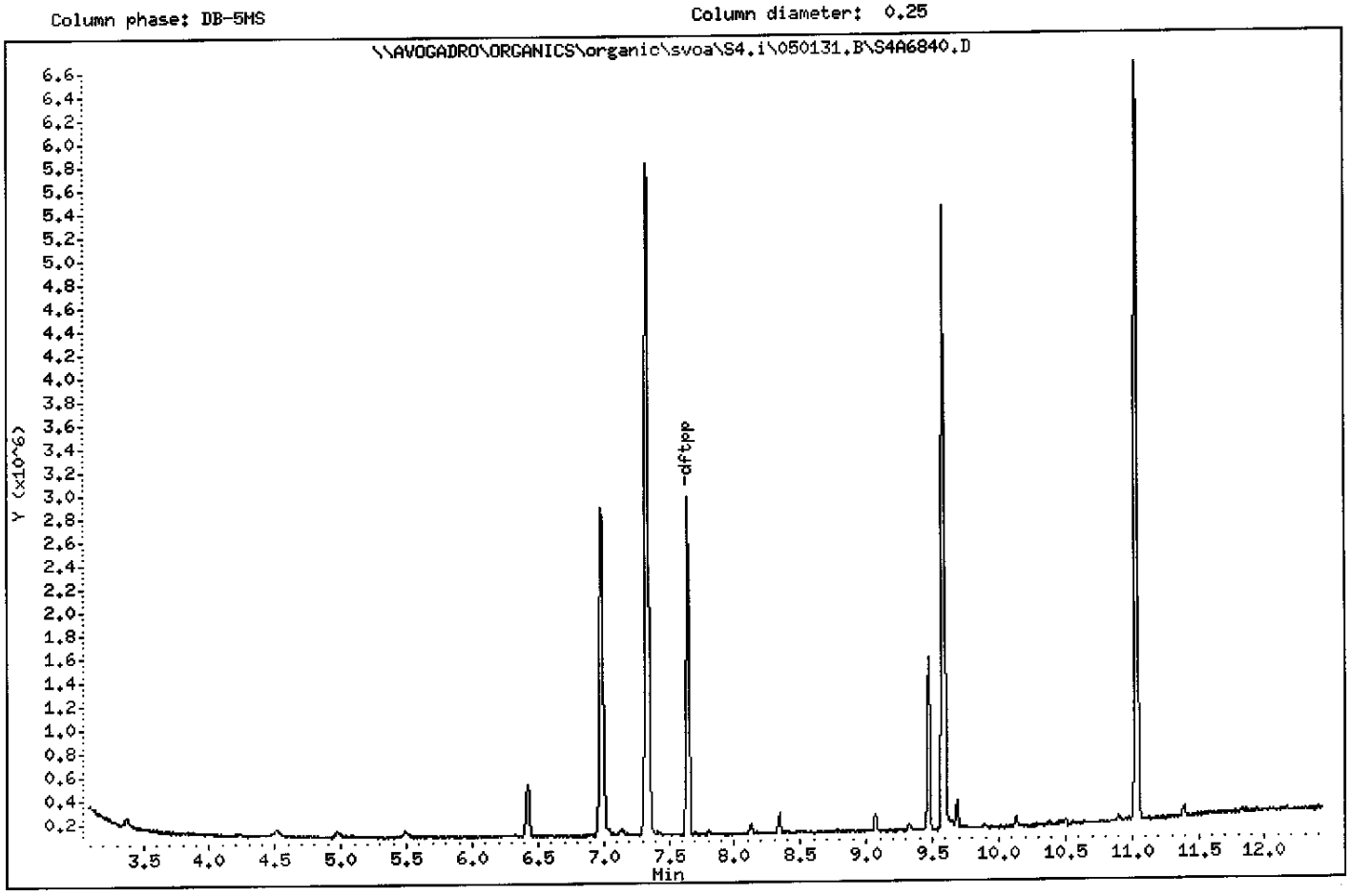
Instrument: S4.i

Sample Info: DFTPP4C,DFTPP4C

Operator: AW

Column phase: DB-5MS

Column diameter: 0.25



1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

SBLK4A

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: MB-16595

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6819.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 15:23

Prep Batch: 16595 | Analytical Run: S4_050128B

Instrument ID: S4 | TestCode: PAH_SIM_W

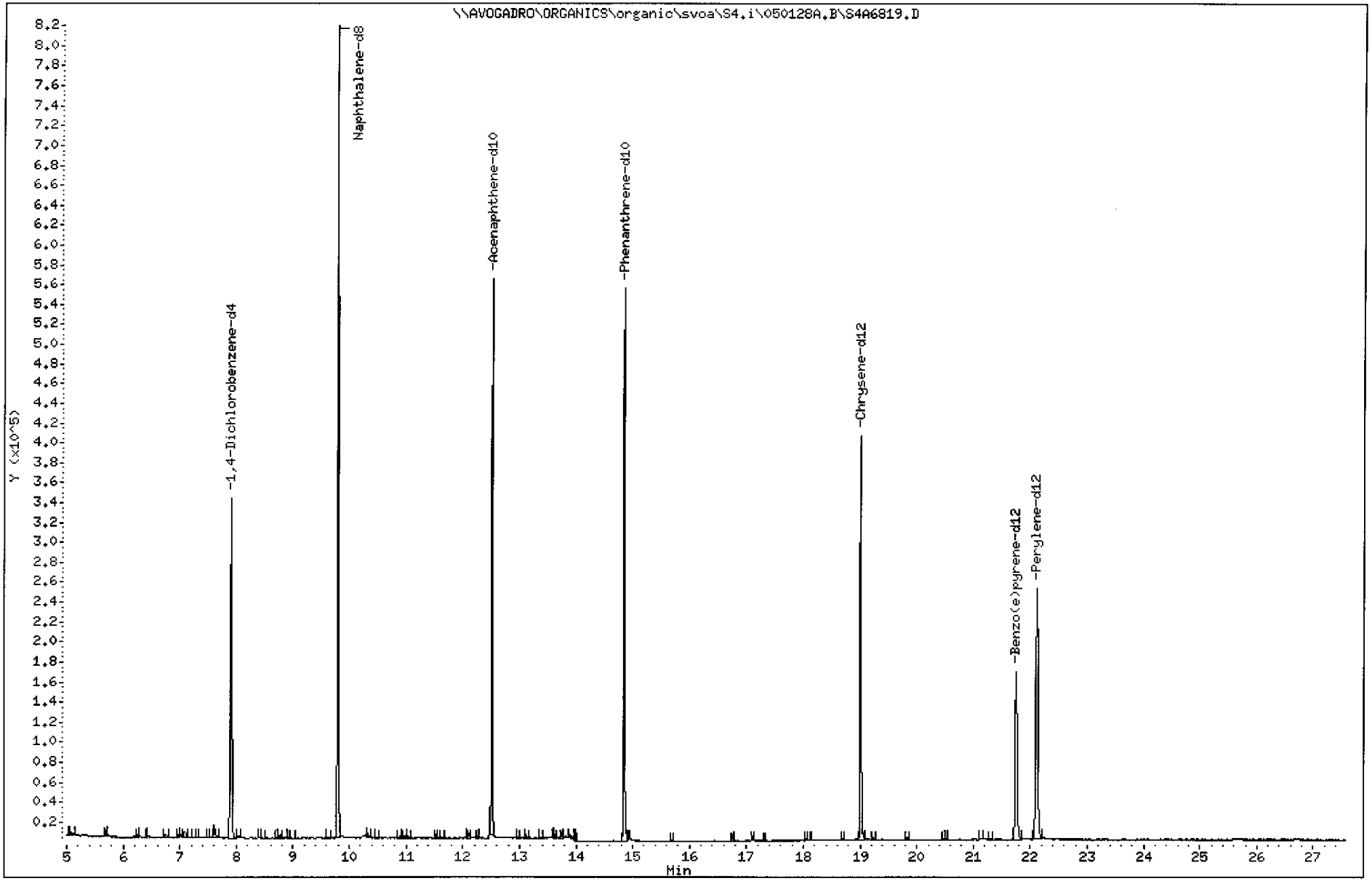
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	0.10	U	0.027	0.10
91-57-6	2-Methylnaphthalene	0.10	U	0.041	0.10
208-96-8	Acenaphthylene	0.10	U	0.0097	0.10
83-32-9	Acenaphthene	0.10	U	0.027	0.10
86-73-7	Fluorene	0.10	U	0.023	0.10
85-01-8	Phenanthrene	0.10	U	0.037	0.10
120-12-7	Anthracene	0.10	U	0.025	0.10
206-44-0	Fluoranthene	0.10	U	0.046	0.10
129-00-0	Pyrene	0.10	U	0.030	0.10
56-55-3	Benzo(a)anthracene	0.10	U	0.018	0.10
218-01-9	Chrysene	0.10	U	0.018	0.10
205-99-2	Benzo(b)fluoranthene	0.10	U	0.020	0.10
207-08-9	Benzo(k)fluoranthene	0.10	U	0.021	0.10
50-32-8	Benzo(a)pyrene	0.10	U	0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	U	0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.10	U	0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.10	U	0.016	0.10
90-12-0	1-Methylnaphthalene	0.10	U	0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6819.D
Date : 28-JAN-2005 15:23
Client ID: SBLK4A
Sample Info: MB-16595,SBLK4A,16595
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6819.D
Report Date: 31-Jan-2005 10:15

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6819.D
Lab Smp Id: MB-16595 Client Smp ID: SBLK4A
Inj Date : 28-JAN-2005 15:23
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : MB-16595,SBLK4A,16595
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 32 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.899	7.899	(1.000)	300538	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	881945	5.00000	
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	425333	5.00000	
* 16 Phenanthrene-d10	188	14.846	14.843	(1.000)	649283	5.00000	
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	512330	5.00000	
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	276687	2.92888	2.9
* 30 Perylene-d12	264	22.113	22.108	(1.000)	432699	5.00000	

02/04/05 AJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

S4ALCS

Lab Name: Mitkem Corporation | Contract:

Lab Code: MITKEM | Case No.: | SAS No.: | SDG No.: MD0058

Matrix: (soil/water) WATER | Lab Sample ID: LCS-16595

Sample wt/vol: 1000 (G/ML) ML | Lab File ID: S4A6820.D

Level: (low/med) LOW | Date Collected: | Time:

% Moisture: | Decanted: (Y/N) N | Date Received: | Time:

Extract Volume: 1000 (µL) | Date Extracted: 01/24/05 | Time: 15:00

Dil Fac: 1.00 | Analyst: awieczorek | Date Analyzed: 01/28/05 | Time: 16:01

Prep Batch: 16595 | Analytical Run: S4_050128B

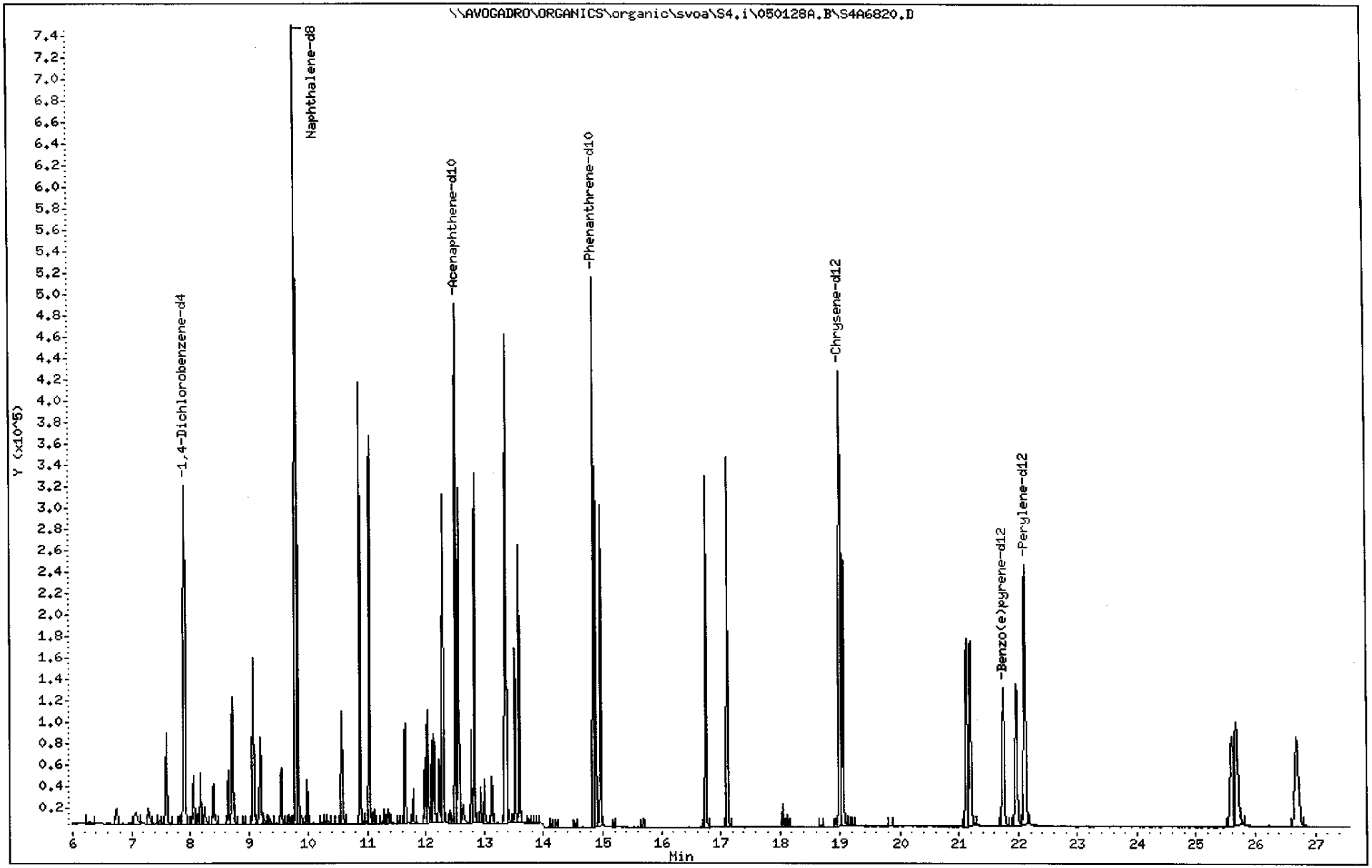
Instrument ID: S4 | TestCode: PAH_SIM_W

CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.3		0.027	0.10
91-57-6	2-Methylnaphthalene	2.4		0.041	0.10
208-96-8	Acenaphthylene	2.6		0.0097	0.10
83-32-9	Acenaphthene	2.6		0.027	0.10
86-73-7	Fluorene	2.7		0.023	0.10
85-01-8	Phenanthrene	2.7		0.037	0.10
120-12-7	Anthracene	2.7		0.025	0.10
206-44-0	Fluoranthene	2.8		0.046	0.10
129-00-0	Pyrene	2.7		0.030	0.10
56-55-3	Benzo(a)anthracene	2.6		0.018	0.10
218-01-9	Chrysene	2.7		0.018	0.10
205-99-2	Benzo(b)fluoranthene	2.8		0.020	0.10
207-08-9	Benzo(k)fluoranthene	2.8		0.021	0.10
50-32-8	Benzo(a)pyrene	2.7		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	2.8		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	2.9		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	2.7		0.016	0.10
90-12-0	1-Methylnaphthalene	2.4		0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6820.D
Date : 28-JAN-2005 16:01
Client ID: S4ALCS
Sample Info: LCS-16595,S4ALCS,16595
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i
Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6820.D
Report Date: 28-Jan-2005 16:34

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6820.D
Lab Smp Id: LCS-16595 Client Smp ID: S4ALCS
Inj Date : 28-JAN-2005 16:01
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : LCS-16595,S4ALCS,16595
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 33 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	278189	5.00000	
* 4 Naphthalene-d8	136	9.792	9.792	(1.000)	787363	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	348476	2.31090	2.3
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	215222	2.37329	2.4
8 1-Methylnaphthalene	142	11.040	11.030	(1.127)	209975	2.39692	2.4
11 Acenaphthylene	152	12.289	12.299	(0.982)	337973	2.60687	2.6
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	373340	5.00000	
13 Acenaphthene	153	12.561	12.561	(1.004)	211741	2.64769	2.6
15 Fluorene	166	13.366	13.366	(1.068)	244158	2.73222	2.7
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	576144	5.00000	
17 Phenanthrene	178	14.882	14.882	(1.003)	354662	2.72343	2.7
18 Anthracene	178	14.961	14.965	(1.008)	337457	2.72527	2.7
20 Fluoranthene	202	16.751	16.751	(1.129)	386465	2.76567	2.8
21 Pyrene	202	17.113	17.116	(0.900)	407966	2.68058	2.7

Data File: S4A6820.D
Report Date: 28-Jan-2005 16:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	363883	2.64104	2.6
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	464673	5.00000	
25 Chrysene	228	19.048	19.048	(1.002)	352504	2.73155	2.7
26 Benzo(b)fluoranthene	252	21.130	21.130	(0.956)	341913	2.78240	2.8
27 Benzo(k)fluoranthene	252	21.194	21.194	(0.959)	352681	2.83506	2.8
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	212778	2.46416	2.5
28 Benzo(a)pyrene	252	21.965	21.960	(0.994)	300439	2.73234	2.7
* 30 Perylene-d12	264	22.108	22.108	(1.000)	395509	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.605	25.600	(1.158)	336533	2.79154	2.8
32 Dibenzo(a,h)anthracene	278	25.679	25.685	(1.162)	252986	2.85200	2.8
33 Benzo(g,h,i)perylene	276	26.694	26.689	(1.207)	297472	2.68511	2.7(Q)

QC Flag Legend

Q - Qualifier signal failed the ratio test.

KL

02/04/05
AW

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MS

Lab Name: Mitkem Corporation
Contract:
Lab Code: MITKEM Case No.:
SAS No.: SDG No.: MD0058
Matrix: (soil/water) WATER
Lab Sample ID: D0058-06BMS
Sample wt/vol: 1000 (G/ML) ML
Lab File ID: S4A6827.D
Level: (low/med) LOW
Date Collected: 01/19/05 Time: 9:55
% Moisture: Decanted: (Y/N) N
Date Received: 01/20/05 Time: 9:00
Extract Volume: 1000 (µL)
Date Extracted: 01/24/05 Time: 15:00
Dil Fac: 1.00 Analyst: awieczorek
Date Analyzed: 01/28/05 Time: 20:23
Prep Batch: 16595
Analytical Run: S4_050128B
Instrument ID: S4
TestCode: PAH_SIM_W

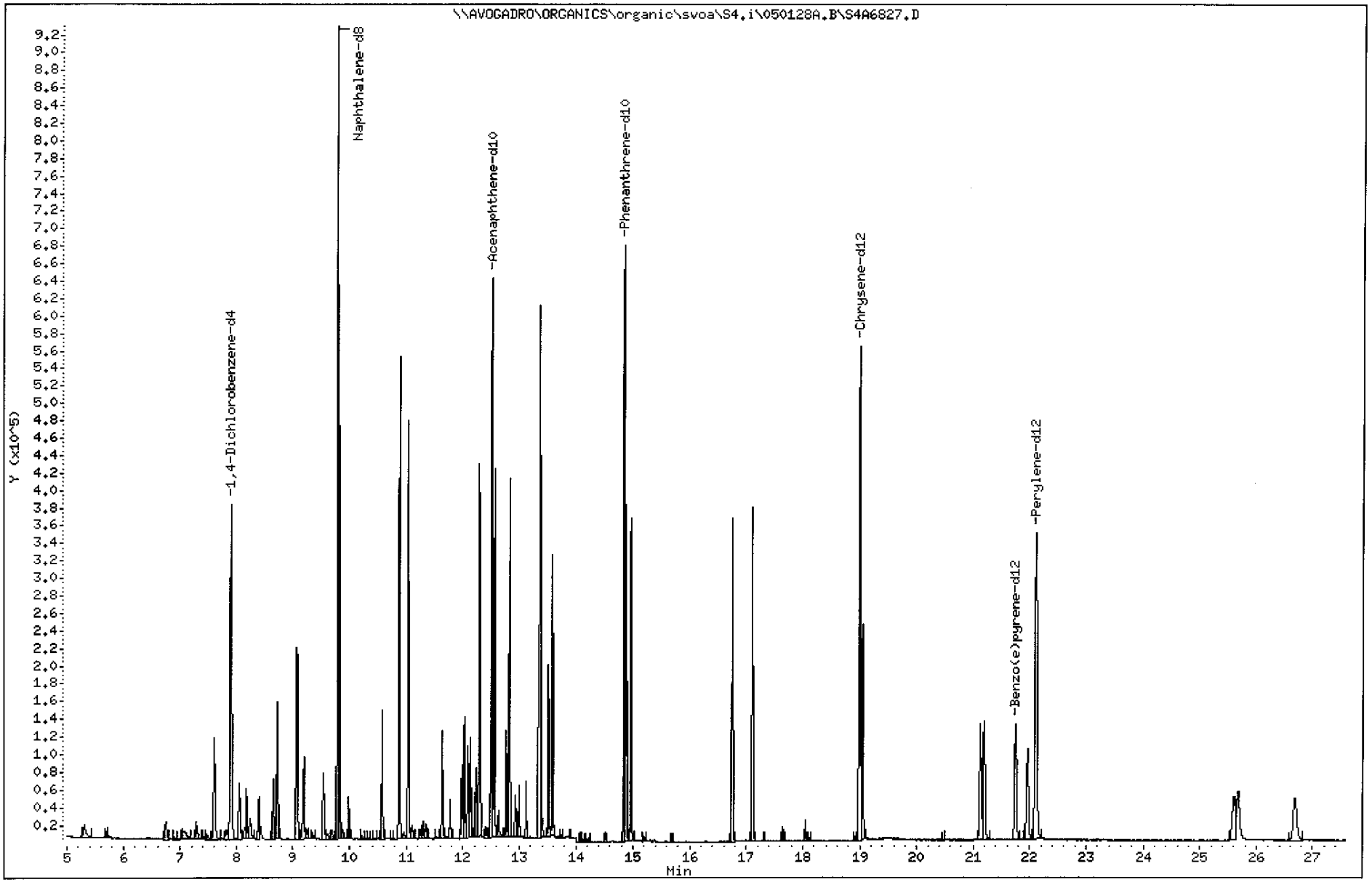
CAS NO. COMPOUND CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.5		0.027	0.10
91-57-6	2-Methylnaphthalene	2.5		0.041	0.10
208-96-8	Acenaphthylene	2.6		0.0097	0.10
83-32-9	Acenaphthene	2.7		0.027	0.10
86-73-7	Fluorene	2.6		0.023	0.10
85-01-8	Phenanthrene	2.6		0.037	0.10
120-12-7	Anthracene	2.5		0.025	0.10
206-44-0	Fluoranthene	2.3		0.046	0.10
129-00-0	Pyrene	2.1		0.030	0.10
56-55-3	Benzo(a)anthracene	1.7		0.018	0.10
218-01-9	Chrysene	1.9		0.018	0.10
205-99-2	Benzo(b)fluoranthene	1.4		0.020	0.10
207-08-9	Benzo(k)fluoranthene	1.5		0.021	0.10
50-32-8	Benzo(a)pyrene	1.4		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.94		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	1.1		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	1.1		0.016	0.10
90-12-0	1-Methylnaphthalene	2.6		0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6827.D
Date : 28-JAN-2005 20:23
Client ID: CEF-CS2-01MS
Sample Info: D0058-06BMS,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



0359

Data File: S4A6827.D
Report Date: 31-Jan-2005 08:49

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6827.D
Lab Smp Id: D0058-06BMS Client Smp ID: CEF-CS2-01MS
Inj Date : 28-JAN-2005 20:23
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-06BMS,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 40 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	356863	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	1013989	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	478773	2.46535	2.5
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	287544	2.46213	2.5
8 1-Methylnaphthalene	142	11.040	11.030	(1.128)	289752	2.56835	2.6
11 Acenaphthylene	152	12.289	12.299	(0.982)	461657	2.62873	2.6
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	505727	5.00000	
13 Acenaphthene	153	12.561	12.561	(1.004)	287411	2.65311	2.6
15 Fluorene	166	13.366	13.366	(1.068)	319352	2.63817	2.6
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	767215	5.00000	
17 Phenanthrene	178	14.879	14.882	(1.002)	443322	2.55643	2.6
18 Anthracene	178	14.961	14.965	(1.008)	417766	2.53359	2.5
20 Fluoranthene	202	16.751	16.751	(1.129)	427172	2.29566	2.3
21 Pyrene	202	17.113	17.116	(0.900)	451678	2.12782	2.1

Data File: S4A6827.D
Report Date: 31-Jan-2005 08:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	319691	1.66359	1.7
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	648105	5.00000	
25 Chrysene	228	19.048	19.048	(1.002)	335282	1.86276	1.9
26 Benzo(b)fluoranthene	252	21.125	21.130	(0.956)	256467	1.41423	1.4
27 Benzo(k)fluoranthene	252	21.193	21.194	(0.959)	268928	1.46488	1.5
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	215069	1.68774	1.7
28 Benzo(a)pyrene	252	21.960	21.960	(0.993)	231540	1.42688	1.4
* 30 Perylene-d12	264	22.108	22.108	(1.000)	583675	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.605	25.600	(1.158)	168001	0.94431	0.94(R)
32 Dibenzo(a,h)anthracene	278	25.674	25.685	(1.161)	144351	1.10271	1.1(R)
33 Benzo(g,h,i)perylene	276	26.688	26.689	(1.207)	178225	1.09011	1.1(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

02/04/05
KV

KC

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample ID

CEF-CS2-01MSD

Lab Name: Mitkem Corporation

Contract:

Lab Code: MITKEM Case No.:

SAS No.: SDG No.: MD0058

Matrix: (soil/water) WATER

Lab Sample ID: D0058-06BMSD

Sample wt/vol: 1000 (G/ML) ML

Lab File ID: S4A6828.D

Level: (low/med) LOW

Date Collected: 01/19/05 Time: 9:55

% Moisture: Decanted: (Y/N) N

Date Received: 01/20/05 Time: 9:00

Extract Volume: 1000 (µL)

Date Extracted: 01/24/05 Time: 15:00

Dil Fac: 1.00 Analyst: awieczorek

Date Analyzed: 01/28/05 Time: 21:01

Prep Batch: 16595

Analytical Run: S4_050128B

Instrument ID: S4

TestCode: PAH_SIM_W

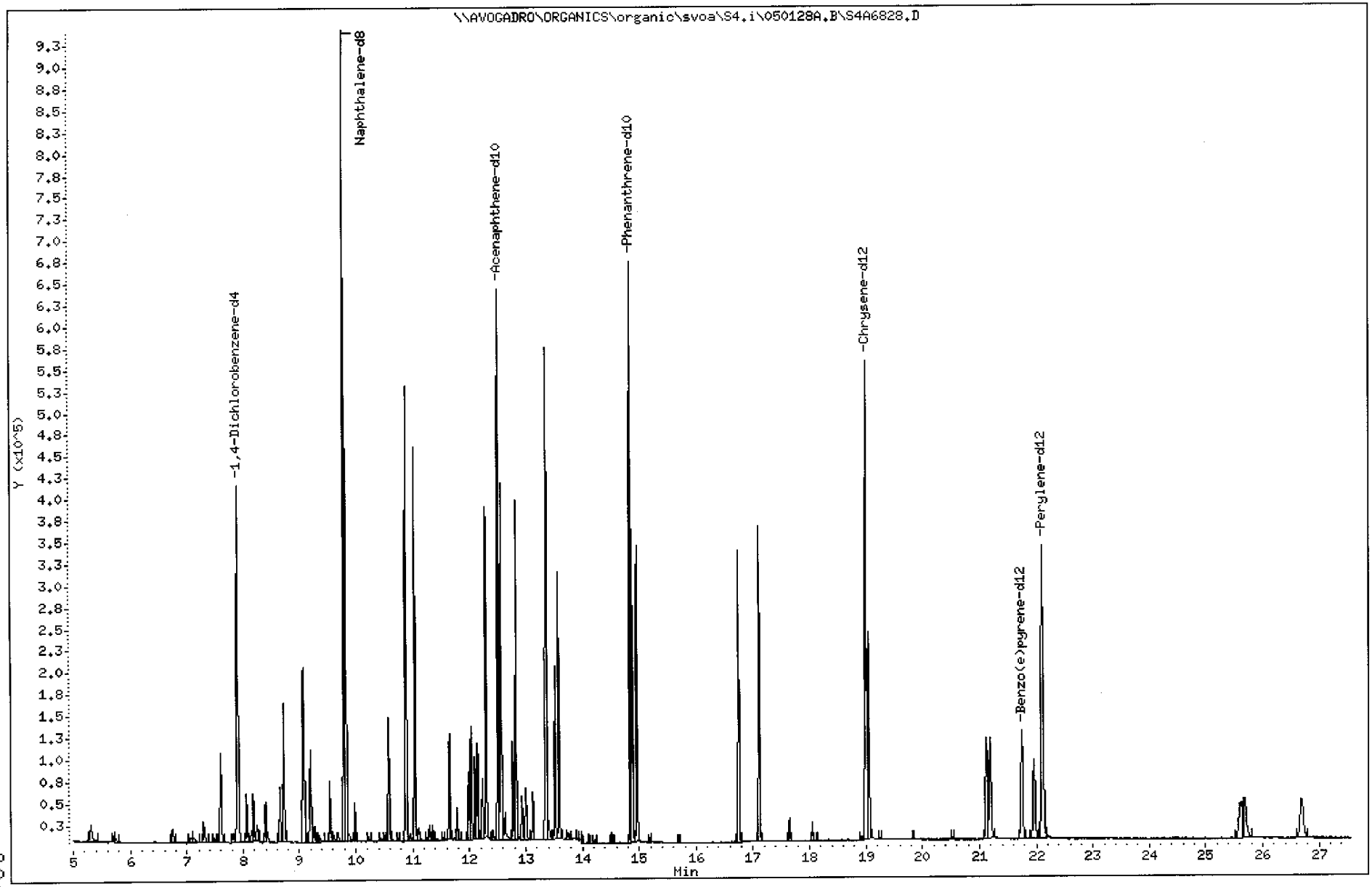
CONCENTRATION UNITS: UG/L

CAS NO.	COMPOUND	RESULT	QUAL	MDL	PQL
91-20-3	Naphthalene	2.3		0.027	0.10
91-57-6	2-Methylnaphthalene	2.3		0.041	0.10
208-96-8	Acenaphthylene	2.5		0.0097	0.10
83-32-9	Acenaphthene	2.6		0.027	0.10
86-73-7	Fluorene	2.6		0.023	0.10
85-01-8	Phenanthrene	2.4		0.037	0.10
120-12-7	Anthracene	2.4		0.025	0.10
206-44-0	Fluoranthene	2.2		0.046	0.10
129-00-0	Pyrene	2.0		0.030	0.10
56-55-3	Benzo(a)anthracene	1.5		0.018	0.10
218-01-9	Chrysene	1.7		0.018	0.10
205-99-2	Benzo(b)fluoranthene	1.2		0.020	0.10
207-08-9	Benzo(k)fluoranthene	1.3		0.021	0.10
50-32-8	Benzo(a)pyrene	1.2		0.012	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	0.96		0.020	0.10
53-70-3	Dibenzo(a,h)anthracene	0.93		0.015	0.10
191-24-2	Benzo(g,h,i)perylene	0.97		0.016	0.10
90-12-0	1-Methylnaphthalene	2.4		0.041	0.10

Data File: \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6828.D
Date : 28-JAN-2005 21:01
Client ID: CEF-CS2-01MSD
Sample Info: D0058-06BMSD,,16595,,
Volume Injected (uL): 1.0
Column phase: DB-5MS

Instrument: S4.i

Operator: AW SRC: LIMS
Column diameter: 0.25



Data File: S4A6828.D
Report Date: 31-Jan-2005 08:52

Mitkem Corporation

SIM-PAH

Data file : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\S4A6828.D
Lab Smp Id: D0058-06BMSD Client Smp ID: CEF-CS2-01MSD
Inj Date : 28-JAN-2005 21:01
Operator : AW SRC: LIMS Inst ID: S4.i
Smp Info : D0058-06BMSD,,16595,,
Misc Info :
Comment :
Method : \\AVOGADRO\ORGANICS\organic\svoa\S4.i\050128A.B\s4_pah_sim.m
Meth Date : 28-Jan-2005 14:41 mtl Quant Type: ISTD
Cal Date : 28-JAN-2005 13:14 Cal File: S4A6815.D
Als bottle: 41 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+1M.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Factor
Vt	1000.000	Extract Volume (uL)
Vi	1.000	Injection Volume
Vo	1000.000	Sample Volume

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	7.909	7.899	(1.000)	377092	5.00000	
* 4 Naphthalene-d8	136	9.791	9.792	(1.000)	1021375	5.00000	
5 Naphthalene	128	9.822	9.822	(1.003)	458114	2.34191	2.3
7 2-Methylnaphthalene	142	10.879	10.879	(1.111)	271974	2.31197	2.3
8 1-Methylnaphthalene	142	11.040	11.030	(1.128)	270669	2.38185	2.4
11 Acenaphthylene	152	12.299	12.299	(0.983)	439069	2.52492	2.5
* 12 Acenaphthene-d10	164	12.510	12.510	(1.000)	500759	5.00000	
13 Acenaphthene	153	12.561	12.561	(1.004)	275164	2.56526	2.6
15 Fluorene	166	13.366	13.366	(1.068)	308038	2.56994	2.6
* 16 Phenanthrene-d10	188	14.843	14.843	(1.000)	765160	5.00000	
17 Phenanthrene	178	14.882	14.882	(1.003)	421658	2.43803	2.4
18 Anthracene	178	14.961	14.965	(1.008)	402595	2.44815	2.4
20 Fluoranthene	202	16.747	16.751	(1.128)	409726	2.20781	2.2
21 Pyrene	202	17.113	17.116	(0.900)	431160	1.99228	2.0

Data File: S4A6828.D
Report Date: 31-Jan-2005 08:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
23 Benzo(a)anthracene	228	18.985	18.985	(0.999)	298190	1.52200	1.5
* 24 Chrysene-d12	240	19.006	19.006	(1.000)	660756	5.00000	
25 Chrysene	228	19.048	19.048	(1.002)	308907	1.68337	1.7
26 Benzo(b)fluoranthene	252	21.125	21.130	(0.956)	222766	1.21741	1.2
27 Benzo(k)fluoranthene	252	21.193	21.194	(0.959)	233295	1.25941	1.2
$ 29 Benzo(e)pyrene-d12	264	21.748	21.748	(0.984)	204670	1.59177	1.6
28 Benzo(a)pyrene	252	21.960	21.960	(0.993)	202525	1.23691	1.2
* 30 Perylene-d12	264	22.108	22.108	(1.000)	588943	5.00000	
31 Indeno(1,2,3-cd)pyrene	276	25.605	25.600	(1.158)	171564	0.95571	0.96(R)
32 Dibenzo(a,h)anthracene	278	25.679	25.685	(1.162)	122273	0.92570	0.92(R)
33 Benzo(g,h,i)perylene	276	26.688	26.689	(1.207)	160411	0.97237	0.97(QR)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

02/04/05
AL

KL

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION: SEMIVOLATILES

Date: 1/24/05	Analysis: PAH-SIM		Method #	Aq: 3510C (SepF) Soil: 3550B (Sonic) (3520C (Liq/Liq)) 3540C (Soxhlet) Other:	Matrix: (Aqueous) Soil Wipe Oil Other:	Batch ID D0058
Blank ID MB-16595	LCS ID LCS-16595		Analyst TG	Spiked By TG	Witness JS	Solvent Name/Lot# B01E05
H_2SO_4 Lot# —	NaOH Lot# —	Time Started: 15:00	Time Ended: 18:30			

Workorder ID	Sample ID	Sample Wt (g) / (Vol (ml))	Initial pH	Surrogate Spike Added	Matrix Spike Added	H2SO4 pH<2	NaOH pH>11	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume (ml)	Date Extract Trans.
MB-16595		1000	7	0.5 mL OSV050108B	—						1/25/05	TS	1 mL	1-25-05
LCS-16595		1000	7		0.5 mL OSV040928B									
D0058 -	01B	1000	7		—									
	02B	1000	7											
	03B	1000	7											
	04B	1000	7											
	05B	1000	7		—									
	06B	1000	7		—									
	06BMS	1000	7		0.5 mL OSV040928B									
	06BMSD	1000	7		0.5 mL OSV040928B									
	07B	1000	7		—									
	08B	1000	7											
	09B	1000	7											
	10B	1000	7											
D0058 -	11B	1000	7	0.5 mL OSV050108B	—						1-25-05	TS	1 mL	1-25-05

TG 1/24/05

TG 1/24/05

Comments SS: OQR 050108C

Sonicator Tuned ~~Yes / No~~

Water Bath Temperature: 40°C

Logbook ID 50.0147-12/04

Reviewed By: KC 2/11/05

Page #: 040

03366

Instrument S4
Injection Log

Mitkem Corporation
SemiVolatiles Laboratory

METHOD: PAHSIM
INITIAL CAL: 01/28/05

COMMENTS:

STD ID: 05H04116A - tune
SH050128B-L3
SH050128B-L1
SH050127B-L5
SH050127C-L4
SH050127E-L2

ANALYST: AW
EMV: 2941
DATE: 01/28/05
DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	METHOD	DIL	COMMENTS	IS	SS
	S4A68	10	DFTPP	4A	DFTPP4A	DFTPP	-	ok		
		11	SSTD0014	A	SSTD014A	PAHSIM	-			
		12	SSTD0.14	A	SSTD0.14A		-			
		13	SSTD010	4A	SSTD010 4A		-	ICAL		
		14	SSTD005	4A	SSTD005 4A		-	PAH.SIM		
		15	SSTD0.5	4A	SSTD0.5 4A	PAHSIM	-			
	S4A68	18	ICV		ICV	PAHSIM	-			

01/28/05 AW

Daily Maintenance	
Gold Seal	clean
Liner	clean
Clipped Column	Yes
Ferrule	no

Comments:

Logbook ID 70.0193-12/04

Reviewed By: KL 2/11/05

Logbook page: 031

Instrument S4
Injection Log

Mitkem Corporation
SemiVolatiles Laboratory

METHOD: PAHSIM
INITIAL CAL: 01/28/05

STD ID: OSW d41116A - tune
SW050128B-L3

ANALYST: AW
EMV: 2941
DATE: 01/28/05

COMMENTS:

DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	METHOD	DIL	COMMENTS	IS	SS
	S4A68	16	DFTPP4B		DFTPP4B	DFTPP	–	ok 13:46		
		17	SSTD001	4B	SSTD0014B	PAHSIM	–	ok		
		19	MB-165	95	SBLK4A		–	ok	✓	✓
		20	LCS-165	95	S4ALCS		–	all in, ok	✓	✓
		21	D0058 –	9B	CEF-CS5-01		–	ok	✓	✓
		22	–	02B	CEF-CS4-01		–	ok	✓	✓
		23	–	03B	CEF-CS7-01		–	ok	✓	✓
		24	–	04B	CEF-CS3-01		–	ok	✓	✓
		25	–	05B	CEF-CS6-01		–	ok	✓	✓
		26	–	06B	CEF-CS2-01		–	ok	✓	✓
		27	–	MS 06B	CEF-CS2-01MS		–	3 spikes out, ok	✓	✓
		28	–	MSD 06B	CEF-CS2-01MSD		–	3 spikes out, ok	✓	✓
		29	–	07B	CEF-CS1A-01		–	need DL 5x	✓	✓
		30	–	08B	CEF-CS10-01		–	ok	✓	✓
		31	–	09B	CEF-CS8-01		–	ok	✓	✓
		32	–	10B	CEF-CS9-01		–	ok	✓	✓
	S4A68	33	D0058 –	11B	CEF-CSDUP-01	PAHSIM	–	2-MN 35 mdDL 5x 00:08	✓	✓
								01/31/05 AW		

Daily Maintenance	N/A
Gold Seal	
Liner	
Clipped Column	
Ferrule	N/A

Comments:

Logbook ID 70.0193-12/04

Reviewed By: KC 2/11/05

Logbook page: 033

Instrument S4
Injection Log

Mitkem Corporation
SemiVolatiles Laboratory

METHOD: PAHSIM
INITIAL CAL: 01/28/05

STD ID: OSW041116A-hc
SW050128B-L3

ANALYST: AW
EMV: 2941
DATE: 01/31/05

COMMENTS:

DATE PRINTED:
DATE LOADED:

AS #	FILE		MITKEM ID		CLIENT ID	METHOD	DIL	COMMENTS	IS	SS
	S4A68	40	DFTPP4	C	DFTPP4C	DFTPP	–	OK 11:29		
	↓	41	SSTD001	4C	SSTD0014C	PAHSIM	–	OK		
		42	MB-165	9T	SBLK4A	↓	–	Don't use		
		43A	D0058–	03B BL	CEF-CS1A-010L		10	2-methylnap. 4.16	✓	✓
	S4A68	44A	D0058–	11B DL	CEF-CSDUP-01 DL	PAHSIM	10	2-methylnapt. 4.51	✓	✓

2/01/05 AW

Daily Maintenance	
Gold Seal	clean
Liner	clean
Clipped Column	YC
Ferrule	YC

Comments:

Logbook ID 70.0193-12/04

Reviewed By: KC 2/11/05

Logbook page: 034

Sample Receiving Logbook

Workorder No. D0058 **Disposal Date:**

Client Name: Tetra Tech **Date Disposed:**

Date Recv'd 1/20/05 **Sample #s** 01-11 **Storage Locations:** H1, VOA

Date Recv'd **Sample #s** **Storage Locations:**

Date Recv'd **Sample #s** **Storage Locations:**

Date Recv'd **Sample #s** **Storage Locations:**

Date Recv'd **Sample #s** **Storage Locations:**

Date Recv'd **Sample #s** **Storage Locations:**

OUT		IN	
Relinquished By	**Received By**	**Relinquished By**	**Received By**
Date: 1/24/05 Init:	Date: 1/24/05 Init: TC	Date: 1/24/05 Init: TC	Date: Init:
Samp. #s 01-05, (06) x3, 07-11		EMPTY	
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			
Date: Init:	Date: Init:	Date: Init:	Date: Init:
Samp. #s			

Comments:

Please record analyst's initials, date, and sample #s removed. Add any comments if necessary (broken bottles, empty jars, etc.)

Logbook ID: 30.0287-12/04 **Reviewed:** KL 2/11/05 **Page:** 141

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
1/25/05	D0042	11A	7S	[illegible] ✓	nu	
		12A		✓		
		13A		✓		
		14A		✓		
		15A		✓		
	15MS	~~16A~~	7S 1/25/05	✓ ✓		
1/25/05	D0042 15MSD	~~17A~~	7S	[illegible]	nu	
1/25/05	MB16583	~~18A~~	7S			
	LCS 16583	~~19~~				
	LCSD16583					
	D0057	01B				
	MB16593			AU	R7	
	LCS16593			AU		
	MB16595			AW		
	LCS 16595			V AU	R7	
	LCSD 16595			—	—	
	D0058	01B		V AU	R7	
		02B		✓		
		03B		✓		
		04B		✓		
		05B		✓		
		06B		✓		
		06MS		✓		
		06MSD		✓		
		07B		✓		
		08B		✓		
		09B		✓		
		10B		✓		
1-25-05	D0058	11B	7S	VAU	R7	
1-26-05	D0042	02	7S	[illegible] ✓	nu	end ok
1-26-05	MB16603			AW	R7	
	LCS16603			✓		
	LCSD16603			✓		
1-26-05	D0071	01B	7S	✓ AU	R7	

Logbook ID 70.0141-10/04 Reviewed By: KL 2/11/05 Logbook Page: 044

Last Page of Data Report