MITKEM CORPORATION

November 9, 2000

Roy F. Weston, Inc.
1090 King Georges Post Rd.
Suite 201
Edison, NJ 08837
Attn: Ms. Smita Sumbaly

RECEIVED
NOV 10 2000

RE: Client Project: #1068, 0018332
Mitkem Lab Project # 71712

Dear Ms. Sumbaly:

Enclosed please find the data report of the required analysis 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,

Edward A. Lawler
Laboratory Operations Manager

388541

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

Analytical Data Package for Roy F. Weston, Inc.

Client Project: 1068

SDG# 71712

Mitkem Project ID: 71712

November 9, 2000

RECEIVED
NOV 10 2000

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Roy F. Weston, Inc.'s 1068 project. Under this deliverable, analysis results are presented for five aqueous samples that were received on October 24, 2000. Analyses were performed per specifications in the project's contract and the chain of custody forms, following discussion with the client. A revised chain of custody form was received via fax on October 25, 2000.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis
230WS-IF	71712001	V, S
230WS-CF	71712002	V, S
230WS-EF	71712003	V, S
240WS-DF	71712004	V, S
TB-01	71712005	V
230WS-CFMS	71712006	V, S
230WS-CFMSD	71712007	V, S

V = Volatile organics – 524.2
S = Semivolatile organics – OLM04.2

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.

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:

The analyses were performed by Method 524.2 and reported in CLP-like format.

Trap used for instrument V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Surrogate recovery: recoveries were within the QC limits with the exception of the recovery of one surrogate standard above the upper QC limit in both the MS and MSD. Please note that the recovery of this surrogate in the native unspiked sample was just below the upper QC limit.

Lab Fortified Blanks: bromoform, 1,1,2,2-tetrachloroethene and 1,2,3-trichloropropane were recovered above the QC limits. Please note that none of these compounds were detected in any sample associated with this LFB.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on sample 230WS-CF. Spike recovery and replicate precision were within the advisory QC limits as based on LFB criteria, with the exception of bromoform in the MS, which was above recovery limit.

Sample analysis: additional surrogates/internal standards were added to the samples. These included dibromofluoromethane (5.8 min), 1,2-dichloroethane-d4 (6.2 min), toluene-d8 (8.4 min) and chlorobenzene-d5 (10.3 min). These analytes were not labeled in the sample chromatograms, nor was recovery calculated for these compounds. No other unusual observation was noted for the analyses.

3. Semivolatile Analysis:

The analyses were performed and reported according to CLP OLM04.2 SOW.

GC column: 30 m x 0.25 mm id (0.5 um film thickness) DB-5MS capillary column

Surrogate recovery: all recoveries were within the QC limits.

Matrix spike/matrix spike duplicate: duplicate matrix spikes were performed on 230WS-CF. Spike recovery and replicate precision were within the advisory QC limits with the exception of 4-nitrophenol, which was recovered high in both spikes.

Sample analysis: No unusual observation was noted for the analyses.

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.

Edward A. Lawler
Laboratory Operations Manager
11/9/00

Sample Transmittal Documentation

MITKEM CORPORATION

10/24/00 09:17 AM

Original

Lab Workorder #: **71712**

Lab Workorder **71712** **R0**

Logged In By:

Reviewed By:

Client: **Roy F. Weston, Inc.**
Lab Workorder ID: **0018332**
Client Proj ID: **1068**
Client PO #:
Project / Profile Name: **1068**
Date Due: **11/07/00**
Customer Service: **KEB**
Del Req'd: **CLP Report (1 copy)**
Completed?:
Profile Notes: **2 copies of data summary, 1 full copy of report; SAMPLES ARENOT PRESERVED 7-DAY HT**

Date Opened: **10/24/00 09:08**
Date Closed: **10/24/00 09:17**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
71712001	230WS-IF	W	SAMPLE	524.2 OLMSVOAW	10/23/00 13:20	10/24/00	11/07/00	
71712002	230WS-CF	W	SAMPLE	524.2 OLMSVOAW	10/23/00 13:25	10/24/00	11/07/00	
71712003	230WS-EF	W	SAMPLE	524.2 OLMSVOAW	10/23/00 13:30	10/24/00	11/07/00	
71712004	230WS-DF	W	SAMPLE	524.2 OLMSVOAW	10/23/00 13:40	10/24/00	11/07/00	
71712005	TB-01	W	B-TB	524.2	10/23/00 12:00	10/24/00	11/07/00	
71712006	230WS-CFMS	W	MS	524.2 OLMSVOAW	10/23/00 13:25	10/24/00	11/07/00	MS FOR SAMPLE 02
71712007	230WS-CFMSD	W	MSD	524.2 OLMSVOAW	10/23/00 13:25	10/24/00	11/07/00	MSD FOR SAMPLE 02

INVOICE AND REPORT GO TO:

Smita Sumblay
Roy F. Weston, Inc.
1090 King Georges Post Road
Edison, NJ, 088373703
W : (732)225-6116
F : (732)225-7037

005

FedEx USA Airbill — FedEx Tracking Number 817987064108

Form I.D. No. 0200 — Recipients Copy

1 From

Date 10-13-00

Sender's Name Michael Garibaldi — Phone 732 225 6116

Company Roy F. Weston

Address 1090 King Georges Post Rd. Suite 201 — Dept./Floor/Suite/Room

City Edison — State NJ — ZIP 08837

2 Your Internal Billing Reference

3 To

Recipient's Name Ben Dodge — Phone 401 732-3400

Company Mitkem Corporation

Address 175 Metro Center Blvd.

We cannot deliver to P.O. boxes or P.O. ZIP codes. — Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City Warwick — State RI — ZIP 02886-1755

8179 8706 4108

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

6 Special Handling

- [ ] **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday** at FedEx Location — Not available with FedEx First Overnight
- [ ] **HOLD Saturday** at FedEx Location — Available for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods cannot be shipped in FedEx packaging:

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below

- [X] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Obtain Recip. Acct. No.
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	53	$ .00	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature — Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Call 1·800·Go·FedEx® (800-463-3339)
Visit our Web site at www.fedex.com

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360

906

RFP No.:
1068
PO No.:
0018332

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS

REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number 11712	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA + MTBE	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
01 230WS-IF	10-23-00/1320	2	L	G	6	X	X								+ MTBE
02 230WS-CF	10-23-00/1325	2	L	G	6	X	X								
03 230WS-EF	10-23-00/1330	2	L	G	6	X	X								
04 230WS-DF	10-23-00/1340	2	L	G	6	X	X								
05 TB-01	10-23-00/ -	8	-	G	6	X	~~X~~ (B)								Trip Blank

Comments: VOA samples are not preserved; analyze within 7-days following Method 524.2

Person Assuming Responsibility for Sample:	Time Date (MM/DD/YY)
Mitkem Corporation 175 Metro Ctr. Blvd. Warwick, RI 02886 Attn: Ben Dodge phone: 401 732-3400	

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	Michael Gambaldi	1700	10/23/00	Fedex Airbill # 817987064108	
All	Fedex Airbill # 817987064108	1700	10/23/00		
		0900	10/24	[illegible]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

62

To Ben dodge
401-732-3499

Revised

RFP No.: 1068
PO No.: 0018332

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS
REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F.-Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA + MTBE	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
230WS-IF	10-23-00/1320	2	L	G	6	X	X								+MTBE
230WS-CF	10-23-00/1325	2	L	G	6	X	X								+MS/MSD
230WS-EF	10-23-00/1330	2	L	G	6	X	X								
230WS-DF	10-23-00/1340	2	L	G	6	X	X								
TB-01	10-23-00/ -	8	-	G	6	X	~~X~~ (B)								Trip Blank

Comments: VOA samples are not preserved; analyze within 7-days following Method 524.2

Person Assuming Responsibility for Sample: Mitkem Corporation 175 Metro Ctr. Blvd. Warwick, RI 02886 Attn: Ben Dodge phone: 401 732-3400 Time Date (MM/DD/YY)

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	Michael Gaibaldi	1700	10/23/00	Fedex Airbill # 817987064108	
All	Fedex Airbill # 817987064108	1700	10/23/00		

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

MITKEM CORPORATION
Sample Condition Form

Received By: NO | Reviewed By: | Date: 10/24 | MITKEM Project #: 71712 | Page ___ of ___

Client Project: 0018332 | Client: ROY FLUESON

Condition:

1) Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

2) Custody Seal Number(s) _____

3) Chain-of-Custody Present / Absent

4) Cooler Temperature 6°C
Coolant Condition ICE

5) Airbill(s) FED-EX
Airbill Number(s) 817987064108

6) Sample Bottles Intact
Broken
Leaking

) Date Received 10/24/00

) Time Received 0900

Lab Sample ID	Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
71712001						
71712002						
71712003						
71712004						
71712005						

OA Matrix Key:
S = Unpreserved Soil
A = Unpreserved Aqueous
= Both MeOH & $NaHSO_4$
a = $NaHSO_4$
M = MeOH
E = Encore
H = HCl
A = AIR

See Sample Notification Form yes/no

MITKEM CORPORATION

*Volatiles *

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

	EPA SAMPLE NO.	SMC1 (BFB)#	SMC2 (DCB)#	SMC3 #	OTHER	TOT OUT
01	VBLK2Z	112	106			0
02	VBLK2ZLCS	115	106			0
03	230WS-IF	111	112			0
04	230WS-CF	118	111			0
05	230WS-EF	111	111			0
06	230WS-DF	111	110			0
07	TB-01	111	111			0
08	VBLK2B	109	109			0
09	230WS-CFMS	127*	109			1
10	230WS-CFMSD	125*	107			1
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (BFB)	= Bromofluorobenzene	(80-120)
SMC2 (DCB)	= 1,2-Dichlorobenzene-d4	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix Spike - Sample No.: VBLK2Z

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	2	0.0	2	100	80-120
Chloromethane	2	0.0	2	100	80-120
Vinyl Chloride	2	0.0	2	100	80-120
Bromomethane	2	0.0	2	100	80-120
Chloroethane	2	0.0	2	100	80-120
Trichlorofluoromethane	2	0.0	2	100	80-120
1,1-Dichloroethene	2	0.0	2	100	80-120
Methylene Chloride	2	0.0	2	100	80-120
trans-1,2-Dichloroethen	2	0.0	2	100	80-120
Methyl tert-butyl ether	2	0.0	2	100	80-120
1,1-Dichloroethane	2	0.0	2	100	80-120
cis-1,2-Dichloroethene	2	0.0	2	100	80-120
2,2-Dichloropropane	2	0.0	2	100	80-120
1,2-Dichloroethane	2	0.0	2	100	80-120
Bromochloromethane	2	0.0	2	100	80-120
Chloroform	2	0.0	2	100	80-120
Carbon Tetrachloride	2	0.0	2	100	80-120
1,1,1-Trichloroethane	2	0.0	2	100	80-120
1,1-Dichloropropene	2	0.0	2	100	80-120
Trichloroethene	2	0.0	2	100	80-120
1,2-Dichloropropane	2	0.0	2	100	80-120
Benzene	2	0.0	2	100	80-120
Dibromomethane	2	0.0	2	100	80-120
Bromodichloromethane	2	0.0	2	100	80-120
cis-1,3-Dichloropropene	2	0.0	2	100	80-120
Toluene	2	0.0	2	100	80-120
trans-1,3-Dichloroprope	2	0.0	2	100	80-120
1,1,2-Trichloroethane	2	0.0	2	100	80-120

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix Spike - Sample No.: VBLK2Z

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Tetrachloroethene	2	0.0	2	100	80-120
1,3-Dichloropropane	2	0.0	2	100	80-120
Dibromochloromethane	2	0.0	2	100	80-120
1,2-Dibromoethane	2	0.0	2	100	80-120
Chlorobenzene	2	0.0	2	100	80-120
1,1,1,2-Tetrachloroetha	2	0.0	2	100	80-120
Ethylbenzene	2	0.0	2	100	80-120
m,p-Xylene	4	0.0	4	100	80-120
o-Xylene	2	0.0	2	100	80-120
Styrene	2	0.0	2	100	80-120
Bromoform	2	0.0	3	150*	80-120
Isopropylbenzene	2	0.0	2	100	80-120
1,1,2,2-Tetrachloroetha	2	0.0	3	150*	80-120
Bromobenzene	2	0.0	2	100	80-120
1,2,3-Trichloropropane	2	0.0	3	150*	80-120
n-Propylbenzene	2	0.0	2	100	80-120
2-Chlorotoluene	2	0.0	2	100	80-120
1,3,5-Trimethylbenzene	2	0.0	2	100	80-120
4-Chlorotoluene	2	0.0	2	100	80-120
tert-Butylbenzene	2	0.0	2	100	80-120
1,2,4-Trimethylbenzene	2	0.0	2	100	80-120
sec-Butylbenzene	2	0.0	2	100	80-120
1,3-Dichlorobenzene	2	0.0	2	100	80-120
4-Isopropyltoluene	2	0.0	2	100	80-120
1,4-Dichlorobenzene	2	0.0	2	100	80-120
n-Butylbenzene	2	0.0	2	100	80-120
1,2-Dichlorobenzene	2	0.0	2	100	80-120
1,2-Dibromo-3-chloropro	2	0.0	2	100	80-120

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

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix Spike - Sample No.: VBLK2Z

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2	0.0	2	100	80-120
Hexachlorobutadiene	2	0.0	2	100	80-120
Naphthalene	2	0.0	2	100	80-120
1,2,3-Trichlorobenzene	2	0.0	2	100	80-120

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 3 out of 60 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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10	0.0	10	100	70-130
Chloromethane	10	0.0	9	90	70-130
Vinyl Chloride	10	0.0	11	110	70-130
Bromomethane	10	0.0	12	120	70-130
Chloroethane	10	0.0	10	100	70-130
Trichlorofluoromethane	10	0.0	12	120	70-130
1,1-Dichloroethene	10	0.0	10	100	70-130
Methylene Chloride	10	0.0	9	90	70-130
trans-1,2-Dichloroethen	10	0.0	10	100	70-130
Methyl tert-butyl ether	10	0.0	12	120	70-130
1,1-Dichloroethane	10	0.0	10	100	70-130
cis-1,2-Dichloroethene	10	0.0	11	110	70-130
2,2-Dichloropropane	10	0.0	12	120	70-130
1,2-Dichloroethane	10	0.0	12	120	70-130
Bromochloromethane	10	0.0	11	110	70-130
Chloroform	10	0.0	11	110	70-130
Carbon Tetrachloride	10	0.0	12	120	70-130
1,1,1-Trichloroethane	10	0.0	12	120	70-130
1,1-Dichloropropene	10	0.0	11	110	70-130
Trichloroethene	10	0.0	11	110	70-130
1,2-Dichloropropane	10	0.0	11	110	70-130
Benzene	10	0.0	10	100	70-130
Dibromomethane	10	0.0	11	110	70-130
Bromodichloromethane	10	0.0	12	120	70-130
cis-1,3-Dichloropropene	10	0.0	11	110	70-130
Toluene	10	0.0	11	110	70-130
trans-1,3-Dichloroprope	10	0.0	12	120	70-130
1,1,2-Trichloroethane	10	0.0	11	110	70-130

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

* Values outside of QC 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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Tetrachloroethene	10	0.0	11	110	70-130
1,3-Dichloropropane	10	0.0	12	120	70-130
Dibromochloromethane	10	0.0	13	130	70-130
1,2-Dibromoethane	10	0.0	12	120	70-130
Chlorobenzene	10	0.0	11	110	70-130
1,1,1,2-Tetrachloroetha	10	0.0	12	120	70-130
Ethylbenzene	10	0.0	11	110	70-130
m,p-Xylene	20	0.0	22	110	70-130
o-Xylene	10	0.0	11	110	70-130
Styrene	10	0.0	12	120	70-130
Bromoform	10	0.0	14	140*	70-130
Isopropylbenzene	10	0.0	11	110	70-130
1,1,2,2-Tetrachloroetha	10	0.0	10	100	70-130
Bromobenzene	10	0.0	10	100	70-130
1,2,3-Trichloropropane	10	0.0	11	110	70-130
n-Propylbenzene	10	0.0	9	90	70-130
2-Chlorotoluene	10	0.0	10	100	70-130
1,3,5-Trimethylbenzene	10	0.0	10	100	70-130
4-Chlorotoluene	10	0.0	10	100	70-130
tert-Butylbenzene	10	0.0	10	100	70-130
1,2,4-Trimethylbenzene	10	0.0	10	100	70-130
sec-Butylbenzene	10	0.0	9	90	70-130
1,3-Dichlorobenzene	10	0.0	10	100	70-130
4-Isopropyltoluene	10	0.0	10	100	70-130
1,4-Dichlorobenzene	10	0.0	10	100	70-130
n-Butylbenzene	10	0.0	10	100	70-130
1,2-Dichlorobenzene	10	0.0	10	100	70-130
1,2-Dibromo-3-chloropro	10	0.0	10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	10	0.0	11	110	70-130
Hexachlorobutadiene	10	0.0	10	100	70-130
Naphthalene	10	0.0	11	110	70-130
1,2,3-Trichlorobenzene	10	0.0	10	100	70-130

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

* Values outside of QC 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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	10	9	90	10	20	70-130
Chloromethane	10	10	100	10	20	70-130
Vinyl Chloride	10	11	110	0	20	70-130
Bromomethane	10	13	130	8	20	70-130
Chloroethane	10	11	110	10	20	70-130
Trichlorofluoromethane	10	10	100	18	20	70-130
1,1-Dichloroethene	10	10	100	0	20	70-130
Methylene Chloride	10	9	90	0	20	70-130
trans-1,2-Dichloroethen	10	10	100	0	20	70-130
Methyl tert-butyl ether	10	10	100	18	20	70-130
1,1-Dichloroethane	10	10	100	0	20	70-130
cis-1,2-Dichloroethene	10	10	100	10	20	70-130
2,2-Dichloropropane	10	11	110	9	20	70-130
1,2-Dichloroethane	10	12	120	0	20	70-130
Bromochloromethane	10	10	100	10	20	70-130
Chloroform	10	11	110	0	20	70-130
Carbon Tetrachloride	10	12	120	0	20	70-130
1,1,1-Trichloroethane	10	11	110	9	20	70-130
1,1-Dichloropropene	10	10	100	10	20	70-130
Trichloroethene	10	10	100	10	20	70-130
1,2-Dichloropropane	10	10	100	10	20	70-130
Benzene	10	10	100	0	20	70-130
Dibromomethane	10	10	100	10	20	70-130
Bromodichloromethane	10	11	110	9	20	70-130
cis-1,3-Dichloropropene	10	10	100	10	20	70-130
Toluene	10	10	100	10	20	70-130
trans-1,3-Dichloroprope	10	11	110	9	20	70-130
1,1,2-Trichloroethane	10	11	110	0	20	70-130

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

* Values outside of QC 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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Tetrachloroethene	10	10	100	10	20	70-130
1,3-Dichloropropane	10	11	110	9	20	70-130
Dibromochloromethane	10	12	120	8	20	70-130
1,2-Dibromoethane	10	11	110	9	20	70-130
Chlorobenzene	10	10	100	10	20	70-130
1,1,1,2-Tetrachloroetha	10	11	110	9	20	70-130
Ethylbenzene	10	10	100	10	20	70-130
m,p-Xylene	20	21	105	5	20	70-130
o-Xylene	10	10	100	10	20	70-130
Styrene	10	11	110	9	20	70-130
Bromoform	10	12	120	15	20	70-130
Isopropylbenzene	10	11	110	0	20	70-130
1,1,2,2-Tetrachloroetha	10	10	100	0	20	70-130
Bromobenzene	10	10	100	0	20	70-130
1,2,3-Trichloropropane	10	10	100	10	20	70-130
n-Propylbenzene	10	9	90	0	20	70-130
2-Chlorotoluene	10	9	90	10	20	70-130
1,3,5-Trimethylbenzene	10	10	100	0	20	70-130
4-Chlorotoluene	10	10	100	0	20	70-130
tert-Butylbenzene	10	10	100	0	20	70-130
1,2,4-Trimethylbenzene	10	10	100	0	20	70-130
sec-Butylbenzene	10	9	90	0	20	70-130
1,3-Dichlorobenzene	10	10	100	0	20	70-130
4-Isopropyltoluene	10	10	100	0	20	70-130
1,4-Dichlorobenzene	10	10	100	0	20	70-130
n-Butylbenzene	10	9	90	10	20	70-130
1,2-Dichlorobenzene	10	10	100	0	20	70-130
1,2-Dibromo-3-chloropro	10	10	100	0	20	70-130

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

* Values outside of QC 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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2,4-Trichlorobenzene	10	9	90	20	20	70-130
Hexachlorobutadiene	10	9	90	10	20	70-130
Naphthalene	10	9	90	20	20	70-130
1,2,3-Trichlorobenzene	10	9	90	10	20	70-130

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

* Values outside of QC limits

RPD: 0 out of 60 outside limits
Spike Recovery: 1 out of 120 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID: V2D5182 Lab Sample ID: V2B1027B

Date Analyzed: 10/27/00 Time Analyzed: 1631

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLK2ZLCS	V2L1027C	V2D5185	1834
02	230WS-IF	71712001	V2D5189	2129
03	230WS-CF	71712002	V2D5190	2202
04	230WS-EF	71712003	V2D5191	2235
05	230WS-DF	71712004	V2D5192	2308
06	TB-01	71712005	V2D5193	2341
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID: V2D5242 Lab Sample ID: V2B1030A

Date Analyzed: 10/30/00 Time Analyzed: 0850

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V2

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	230WS-CFMS	7171712006	V2D5245	1223
02	230WS-CFMSD	71712006	V2D5254	1727
03				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID: V2D5170 BFB Injection Date: 10/27/00

Instrument ID: V2 BFB Injection Time: 0921

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 80.0% of mass 95	41.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	94.3
175	5.0 - 9.0% of mass 174	7.1 (7.6)1
176	95.0 - 101.0% of mass 174	92.9 (98.6)1
177	5.0 - 9.0% of mass 176	6.1 (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	VSTD0502Y	V2S1027A	V2D5171	10/27/00	0938
02	VSTD00052Y	V2S1027B	V2D5175	10/27/00	1300
03	VSTD0402Y	V2S1027C	V2D5176	10/27/00	1333
04	VSTD0202Y	V2S1027D	V2D5177	10/27/00	1406
05	VSTD0042Y	V2S1027E	V2D5178	10/27/00	1438
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID: V2D5180 BFB Injection Date: 10/27/00

Instrument ID: V2 BFB Injection Time: 1540

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 80.0% of mass 95	42.1
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	98.3
175	5.0 - 9.0% of mass 174	7.6 (7.7)1
176	95.0 - 101.0% of mass 174	98.9 (100.7)1
177	5.0 - 9.0% of mass 176	6.2 (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	VSTD0102Z	V2S1027F	V2D5181	10/27/00	1558
02	VBLK2Z	V2B1027B	V2D5182	10/27/00	1631
03	VBLK2ZLCS	V2L1027C	V2D5185	10/27/00	1834
04	230WS-IF	71712001	V2D5189	10/27/00	2129
05	230WS-CF	71712002	V2D5190	10/27/00	2202
06	230WS-EF	71712003	V2D5191	10/27/00	2235
07	230WS-DF	71712004	V2D5192	10/27/00	2308
08	TB-01	71712005	V2D5193	10/27/00	2341
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID: V2D5240 BFB Injection Date: 10/30/00

Instrument ID: V2 BFB Injection Time: 0800

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.7
75	30.0 - 80.0% of mass 95	41.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	50.0 - 100.0% of mass 95	98.3
175	5.0 - 9.0% of mass 174	7.3 (7.4)1
176	95.0 - 101.0% of mass 174	97.6 (99.3)1
177	5.0 - 9.0% of mass 176	6.5 (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	VSTD0102B	V2S1030A	V2D5241	10/30/00	0815
02	VBLK2B	V2B1030A	V2D5242	10/30/00	0850
03	230WS-CFMS	7171712006	V2D5245	10/30/00	1223
04	230WS-CFMSD	71712006	V2D5254	10/30/00	1727
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID (Standard): V2D5181 Date Analyzed: 10/27/00

Instrument ID: V2 Time Analyzed: 1558

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (DCB) AREA #	RT #	AREA #	RT #
	12 HOUR STD	247655	6.64	87694	13.20		
	UPPER LIMIT	495310	7.14	175388	13.70		
	LOWER LIMIT	123828	6.14	43847	12.70		
	EPA SAMPLE NO.						
01	VBLK2Z	243480	6.64	80501	13.20		
02	VBLK2ZLCS	226866	6.64	78433	13.21		
03	230WS-IF	211170	6.64	70267	13.20		
04	230WS-CF	200142	6.64	69607	13.21		
05	230WS-EF	200257	6.65	66441	13.21		
06	230WS-DF	202604	6.66	64878	13.21		
07	TB-01	203121	6.66	62984	13.22		
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IS1 = Fluorobenzene
IS2 (DCB) = 1,4-Dichlorobenzene-d4

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

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Lab File ID (Standard): V2D5241 Date Analyzed: 10/30/00

Instrument ID: V2 Time Analyzed: 0815

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(DCB) AREA #	RT #	AREA #	RT #
	12 HOUR STD	285528	6.66	90711	13.21		
	UPPER LIMIT	571056	7.16	181422	13.71		
	LOWER LIMIT	142764	6.16	45356	12.71		
	EPA SAMPLE NO.						
01	VBLK2B	284773	6.65	88345	13.21		
02	230WS-CFMS	197999	6.63	78224	13.20		
03	230WS-CFMSD	199062	6.65	75179	13.21		
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IS1 = Fluorobenzene
IS2 (DCB) = 1,4-Dichlorobenzene-d4

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5190

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5190

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	~~0.5~~	~~U~~ R
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5190

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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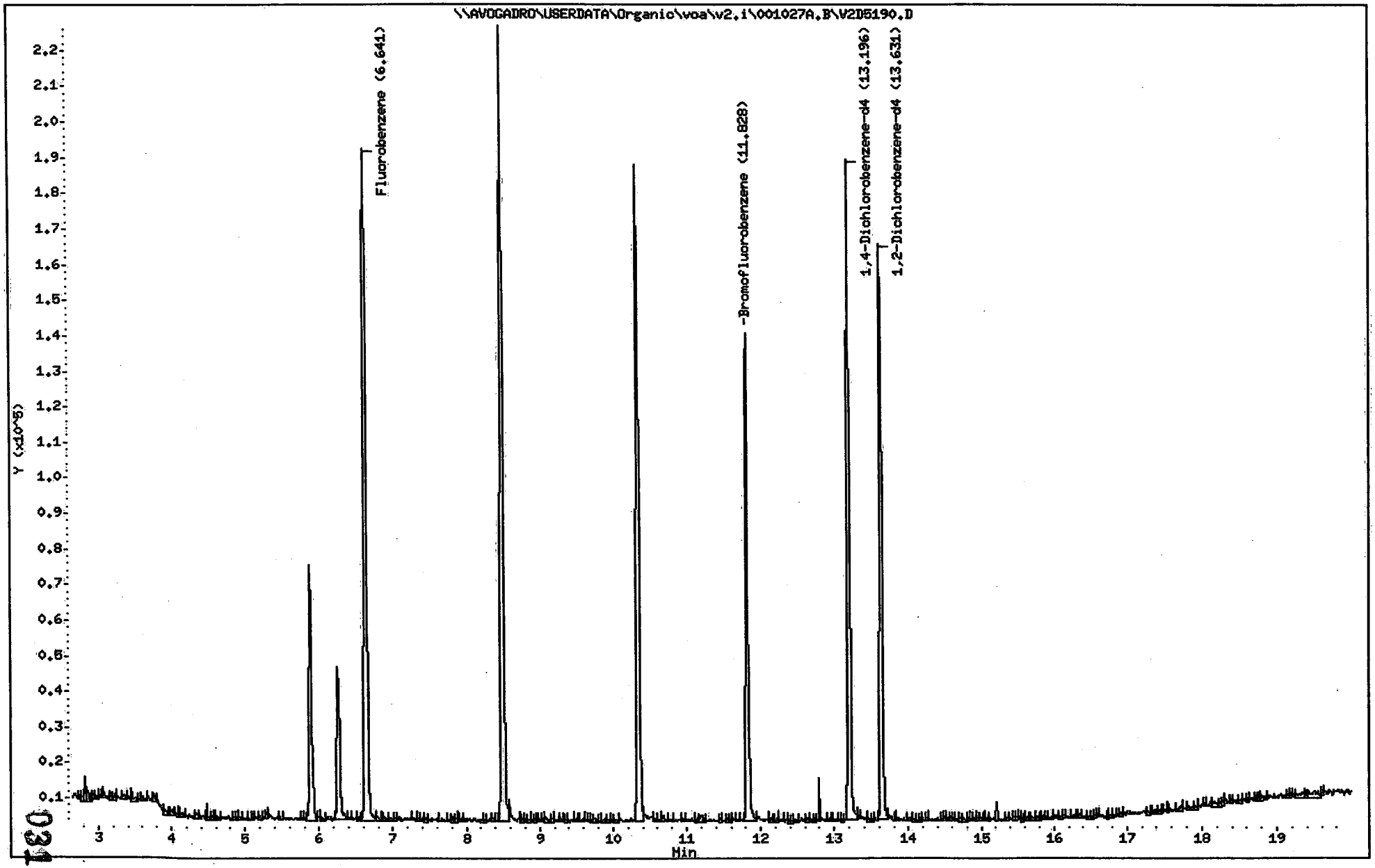
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5190.D
Date : 27-OCT-2000 22:02
Client ID: 230WS-CF
Sample Info: RFW,71712002,230WS-CF,V2B1027B,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



031

Data File: V2D5190.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5190.D
Lab Smp Id: 71712002 Client Smp ID: 230WS-CF
Inj Date : 27-OCT-2000 22:02
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712002,230WS-CF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.641	6.682	(1.000)	200142	5.00000	
$ 44 Bromofluorobenzene	95	11.828	11.848	(1.781)	56103	5.90844	6
* 57 1,4-Dichlorobenzene-d4	152	13.207	13.227	(1.000)	69607	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.631	13.662	(1.032)	57719	5.55927	6

10/31/00

KL

Data File: V2D5190.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5190.D
Lab Smp Id: 71712002 Client Smp ID: 230WS-CF
Inj Date : 27-OCT-2000 22:02
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712002,230WS-CF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5192

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5192

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	~~0.5~~	~~U~~ R
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5192

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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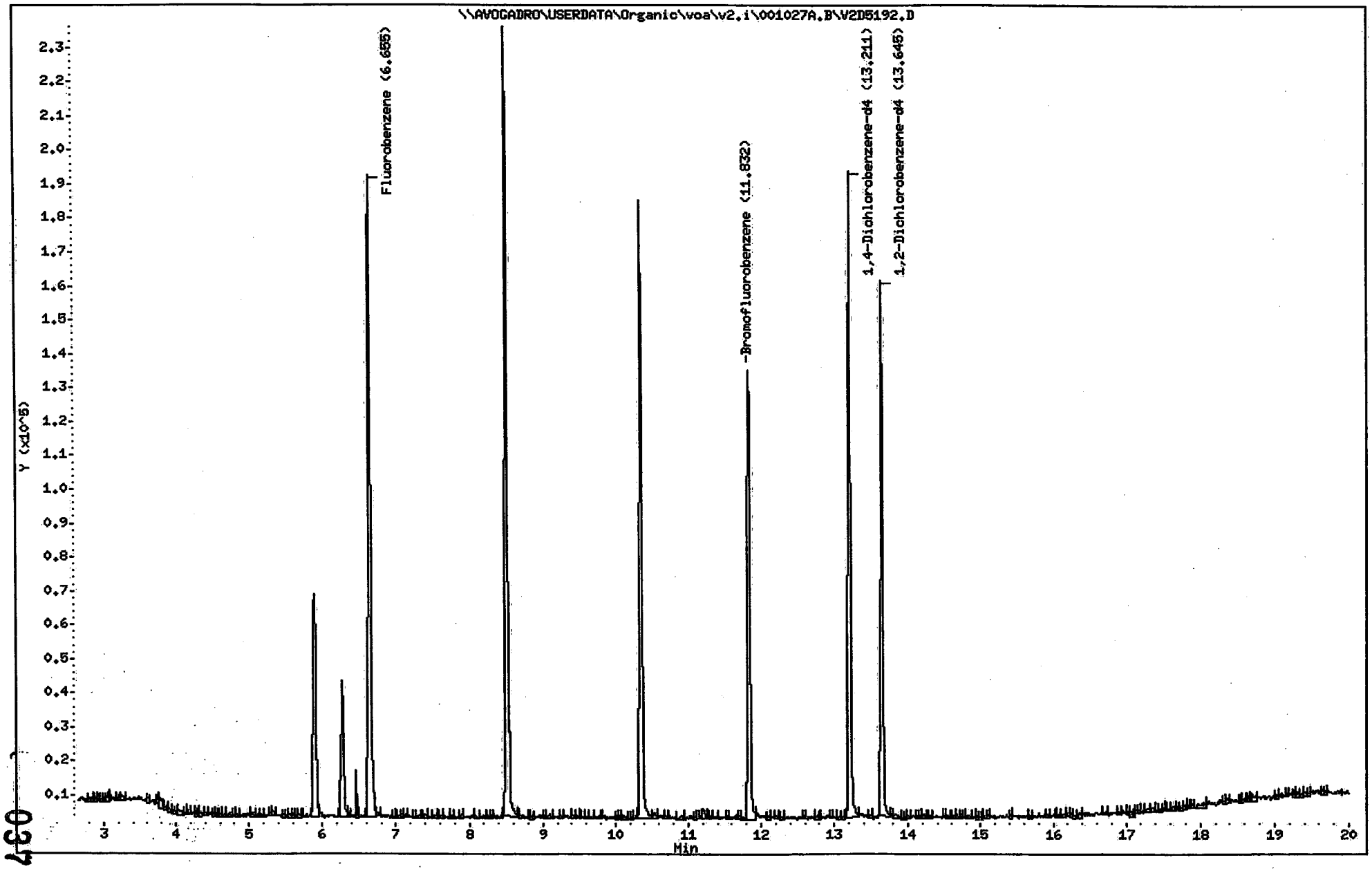
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5192.D
Date : 27-OCT-2000 23:08
Client ID: 230WS-DF
Sample Info: RFW,71712004,230WS-DF,V2B1027B,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



037

Data File: V2D5192.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5192.D
Lab Smp Id: 71712004 Client Smp ID: 230WS-DF
Inj Date : 27-OCT-2000 23:08
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712004,230WS-DF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.655	6.682	(1.000)	202604	5.00000	
$ 44 Bromofluorobenzene	95	11.832	11.848	(1.778)	53276	5.54253	6
* 57 1,4-Dichlorobenzene-d4	152	13.211	13.227	(1.000)	64878	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.645	13.662	(1.033)	53365	5.51456	6

10/31/00

KC

Data File: V2D5192.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5192.D
Lab Smp Id: 71712004 Client Smp ID: 230WS-DF
Inj Date : 27-OCT-2000 23:08
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712004,230WS-DF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5191

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5191

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	~~0.5~~	~~U~~ R
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5191

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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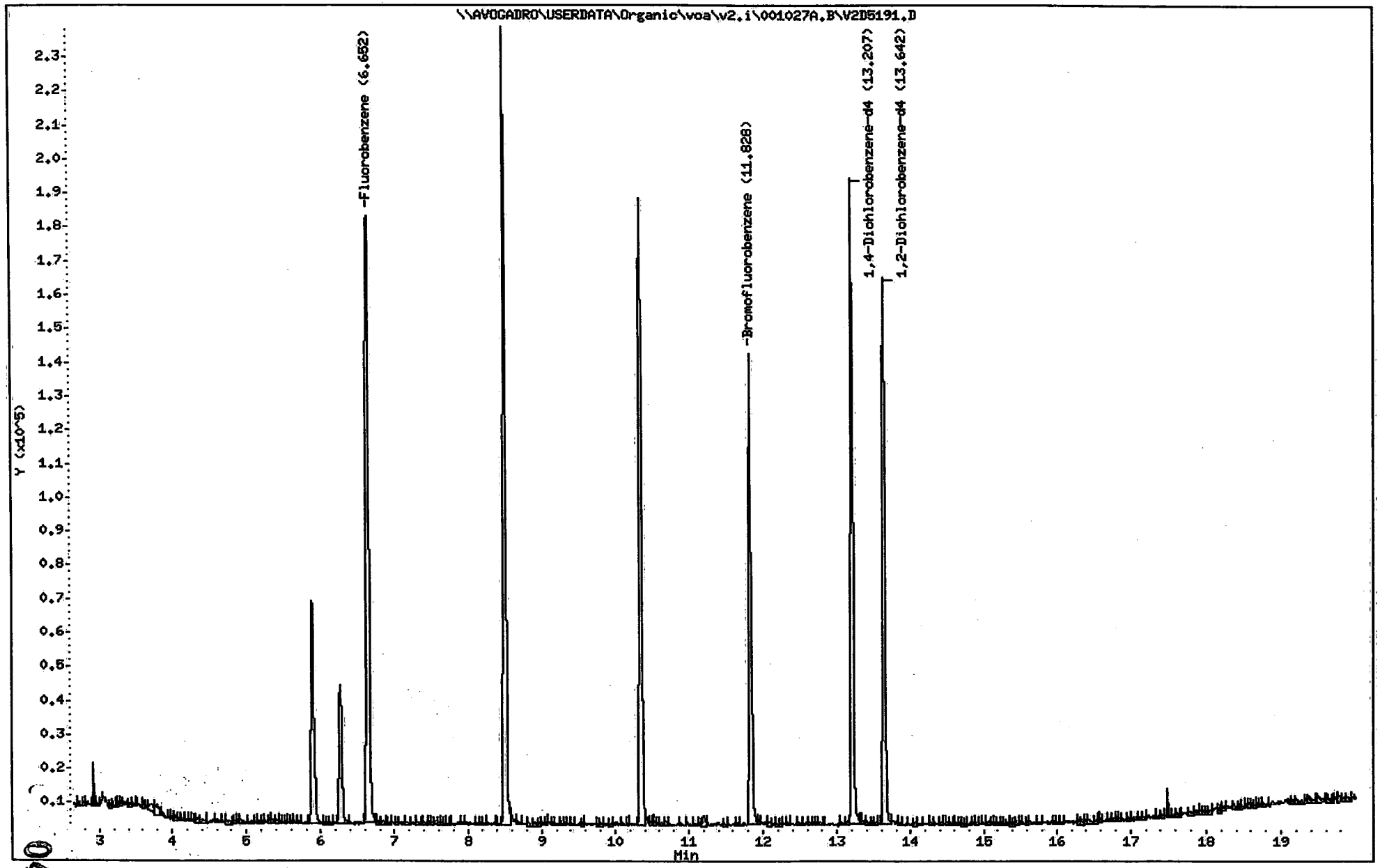
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5191.D
Date : 27-OCT-2000 22:35
Client ID: 230WS-EF
Sample Info: RFW,71712003,230WS-EF,V2B1027B,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: V2D5191.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5191.D
Lab Smp Id: 71712003 Client Smp ID: 230WS-EF
Inj Date : 27-OCT-2000 22:35
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712003,230WS-EF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.652	6.682	(1.000)	200257	5.00000	
$ 44 Bromofluorobenzene	95	11.828	11.848	(1.778)	52648	5.54139	6
* 57 1,4-Dichlorobenzene-d4	152	13.207	13.227	(1.000)	66441	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.642	13.662	(1.033)	55100	5.55991	6

10/31/00

044

Data File: V2D5191.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5191.D
Lab Smp Id: 71712003 Client Smp ID: 230WS-EF
Inj Date : 27-OCT-2000 22:35
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712003,230WS-EF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5189

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	15	
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5189

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	~~0.5~~	~~U~~ R
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5189

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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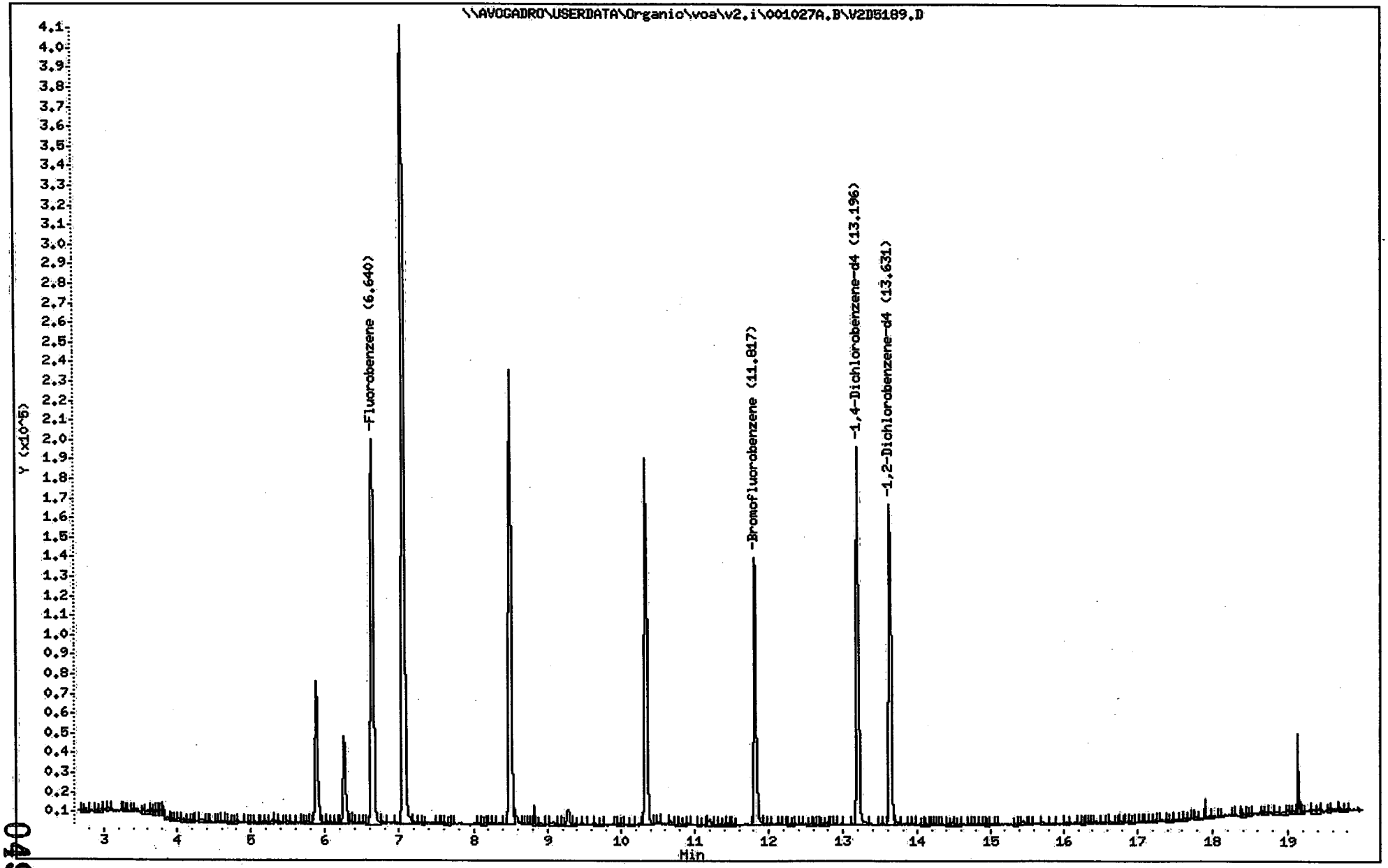
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5189.D
Date : 27-OCT-2000 21:29
Client ID: 230WS-IF
Sample Info: RFW,71712001,230WS-IF,V2B1027B,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: V2D5189.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5189.D
Lab Smp Id: 71712001 Client Smp ID: 230WS-IF
Inj Date : 27-OCT-2000 21:29
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712001,230WS-IF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.640	6.682	(1.000)	211170	5.00000	
23 Trichloroethene	95	7.065	7.096	(1.064)	167566	14.9559	15
$ 44 Bromofluorobenzene	95	11.817	11.848	(1.780)	55656	5.55526	6
* 57 1,4-Dichlorobenzene-d4	152	13.196	13.227	(1.000)	70267	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.631	13.662	(1.033)	59007	5.62994	6

10/31/00

Data File: V2D5189.D
Report Date: 31-Oct-2000 15:29

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5189.D
Lab Smp Id: 71712001 Client Smp ID: 230WS-IF
Inj Date : 27-OCT-2000 21:29
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712001,230WS-IF,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5189.D

Date : 27-OCT-2000 21:29

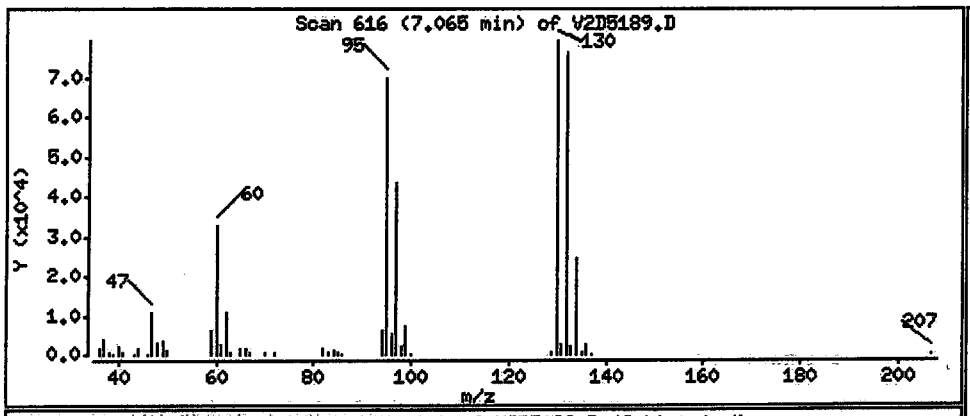
Client ID: 230WS-IF | Instrument: v2.i

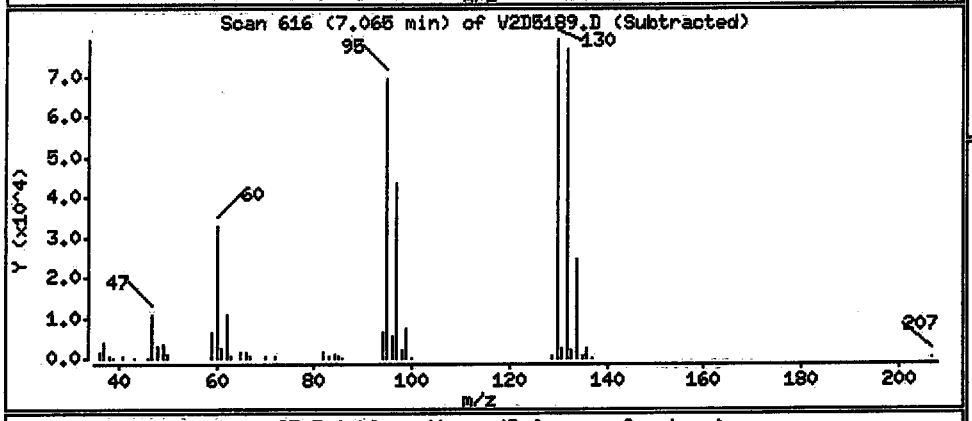
Sample Info: RFW,71712001,230WS-IF,V2B1027B,,71712

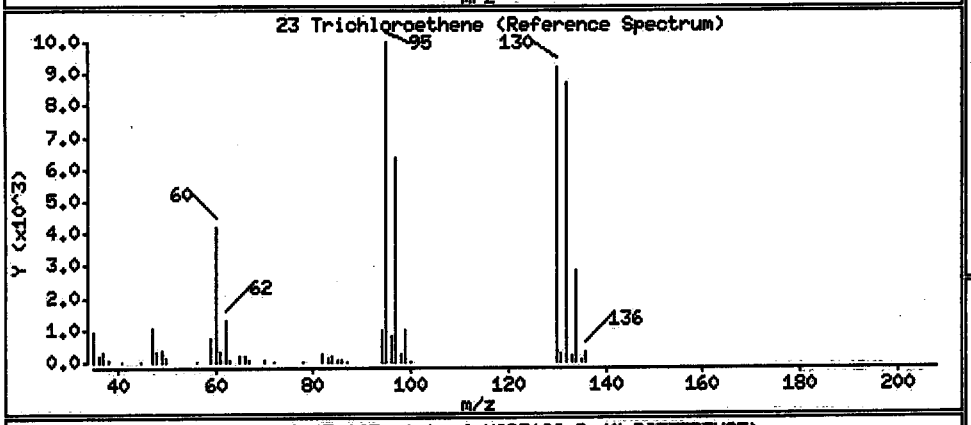
Purge Volume: 25.0 | Operator: JT

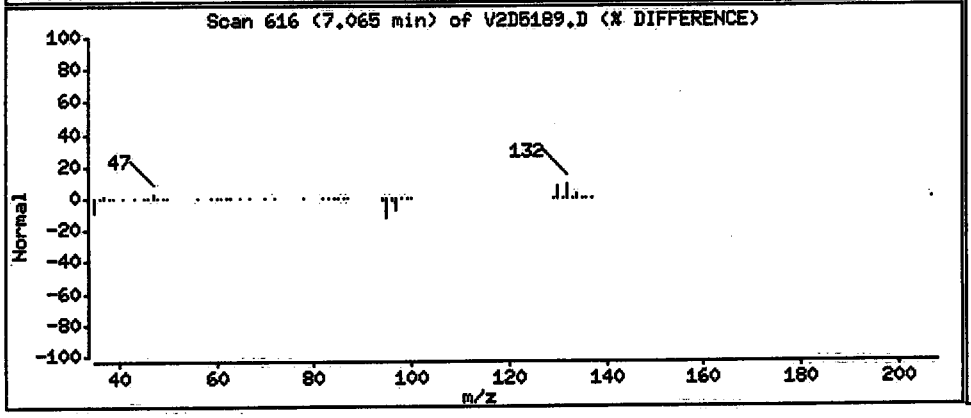
Column phase: DB-624 | Column diameter: 0.25

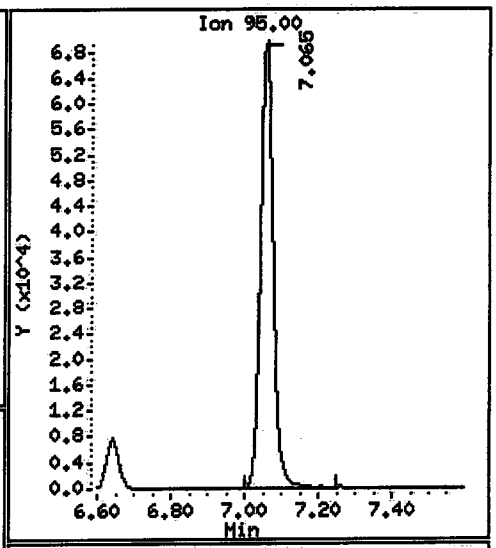
23 Trichloroethene | Concentration: 15 ug/L

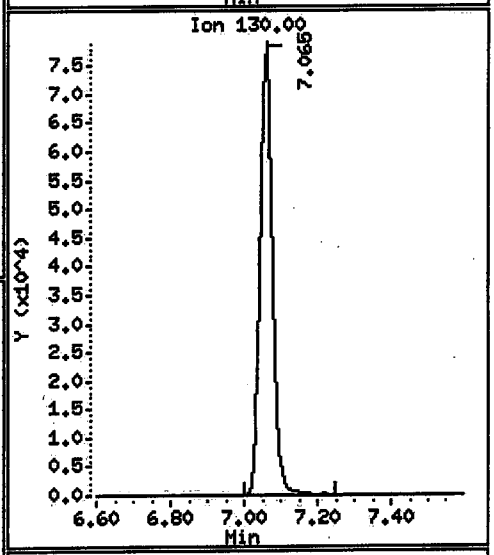


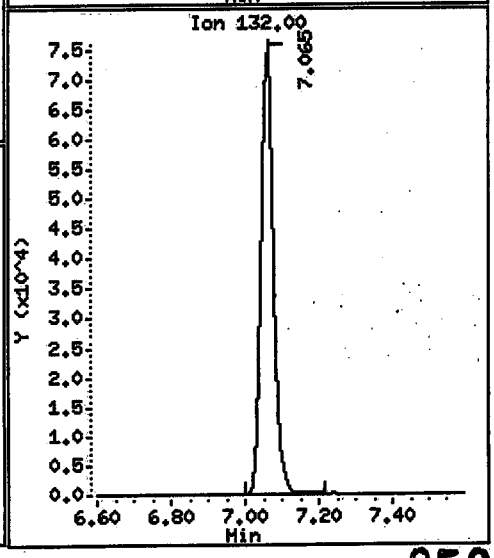












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5193

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5193

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	~~0.5~~	~~U~~ R
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-01

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712005

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5193

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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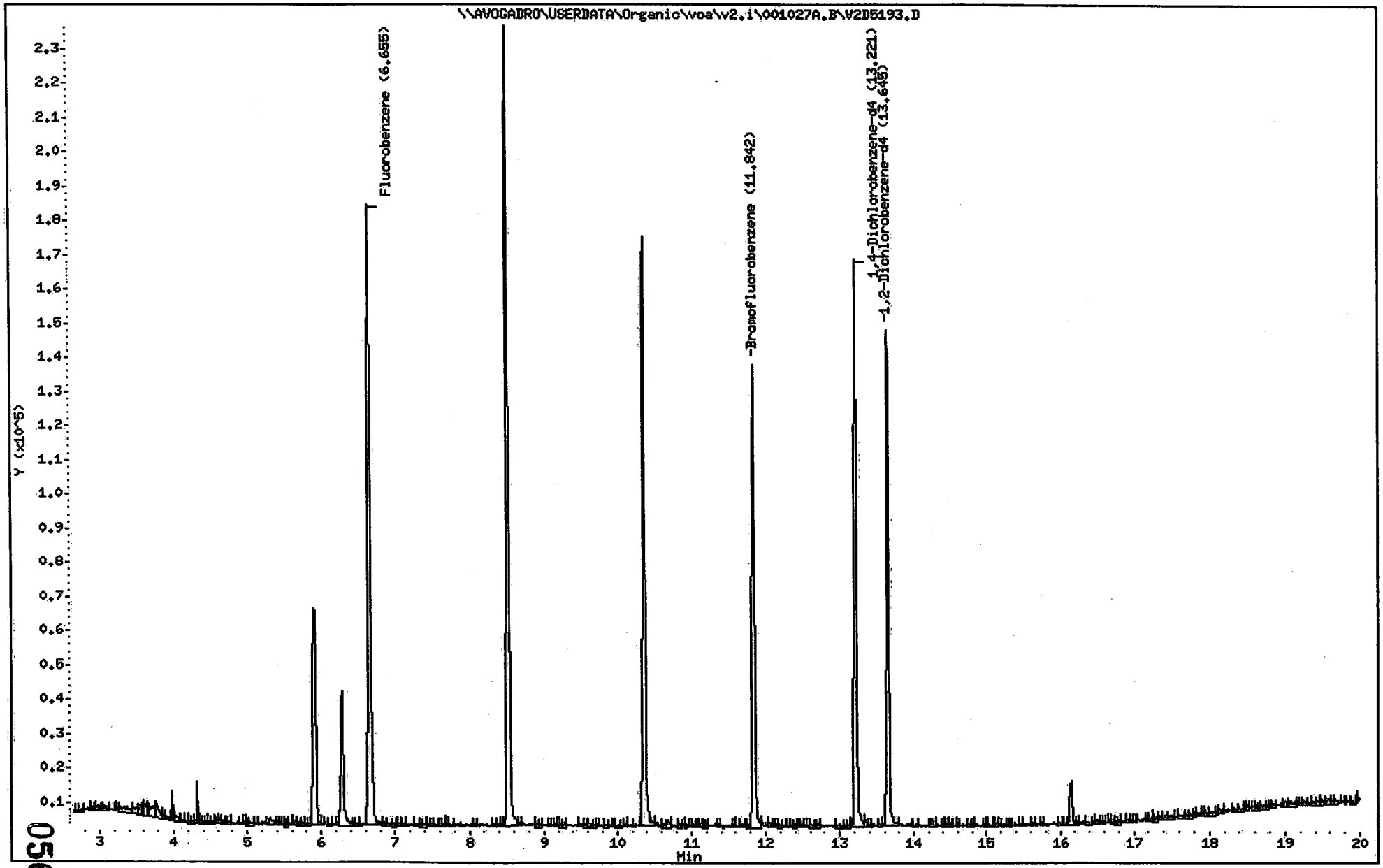
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5193.D
Date : 27-OCT-2000 23:41
Client ID: TB-01
Sample Info: RFW,71712005,TB-01,V2B1027B,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



056

Data File: V2D5193.D
Report Date: 31-Oct-2000 15:30

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5193.D
Lab Smp Id: 71712005 Client Smp ID: TB-01
Inj Date : 27-OCT-2000 23:41
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712005,TB-01,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.655	6.682	(1.000)	203121	5.00000	
$ 44 Bromofluorobenzene	95	11.842	11.848	(1.779)	53417	5.54306	6
* 57 1,4-Dichlorobenzene-d4	152	13.221	13.227	(1.000)	62984	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.645	13.662	(1.032)	52165	5.55266	6

10/31/00

Data File: V2D5193.D
Report Date: 31-Oct-2000 15:30

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5193.D
Lab Smp Id: 71712005 Client Smp ID: TB-01
Inj Date : 27-OCT-2000 23:41
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712005,TB-01,V2B1027B,,71712
Misc Info : 24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 13 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Calibration Time(s): 0938 1438

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

LAB FILE ID: RRF0.5=V2D5175 RRF4 =V2D5178
RRF10 =V2D5171 RRF20 =V2D5177 RRF40 =V2D5176

COMPOUND	RRF0.5	RRF4	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Dichlorodifluoromethane *	0.165	0.219	0.215	0.209	0.213	0.204	10.9*
Chloromethane *	0.472	0.560	0.544	0.535	0.486	0.519	7.4*
Vinyl Chloride *	0.340	0.448	0.437	0.431	0.392	0.410	10.8*
Bromomethane *	0.247	0.279	0.266	0.265	0.239	0.259	6.2*
Chloroethane *	0.211	0.256	0.265	0.245	0.224	0.240	9.4*
Trichlorofluoromethane *	0.140	0.180	0.167	0.188	0.205	0.176	14.0*
1,1-Dichloroethene *	0.208	0.228	0.240	0.229	0.213	0.224	5.8*
Methylene Chloride *	0.339	0.241	0.234	0.232	0.220	0.253	19.2*
trans-1,2-Dichloroethene *	0.252	0.297	0.316	0.292	0.272	0.286	8.6*
Methyl tert-butyl ether *	0.263	0.270	0.271	0.285	0.274	0.273	3.0*
1,1-Dichloroethane *	0.468	0.563	0.583	0.543	0.521	0.536	8.2*
cis-1,2-Dichloroethene *	0.229	0.259	0.269	0.260	0.245	0.252	6.2*
2,2-Dichloropropane *	0.310	0.348	0.370	0.346	0.342	0.343	6.3*
1,2-Dichloroethane *	0.160	0.174	0.162	0.173	0.170	0.168	3.9*
Bromochloromethane *	0.084	0.092	0.087	0.094	0.091	0.090	4.4*
Chloroform *	0.362	0.398	0.389	0.393	0.377	0.384	3.8*
Carbon Tetrachloride *	0.229	0.284	0.283	0.279	0.269	0.269	8.6*
1,1,1-Trichloroethane *	0.274	0.333	0.328	0.327	0.319	0.316	7.7*
1,1-Dichloropropene *	0.299	0.377	0.392	0.371	0.356	0.359	10.0*
Trichloroethene *	0.235	0.273	0.285	0.272	0.262	0.265	7.1*
1,2-Dichloropropane *	0.211	0.247	0.265	0.250	0.245	0.244	8.1*
Benzene *	0.924	1.051	1.089	1.029	0.984	1.015	6.3*
Dibromomethane *	0.074	0.078	0.076	0.080	0.079	0.077	2.7*
Bromodichloromethane *	0.178	0.219	0.209	0.224	0.220	0.210	8.8*
cis-1,3-Dichloropropene *	0.219	0.260	0.273	0.278	0.274	0.261	9.4*
Toluene *	0.517	0.619	0.632	0.616	0.595	0.596	7.7*
trans-1,3-Dichloropropene *	0.135	0.165	0.167	0.181	0.183	0.166	11.6*
1,1,2-Trichloroethane *	0.078	0.087	0.087	0.091	0.090	0.087	5.8*
Tetrachloroethene *	0.281	0.333	0.340	0.334	0.330	0.324	7.4*
1,3-Dichloropropane *	0.136	0.169	0.173	0.174	0.171	0.165	9.8*
Dibromochloromethane *	0.111	0.132	0.125	0.138	0.138	0.129	8.7*
1,2-Dibromoethane *	0.077	0.095	0.093	0.102	0.102	0.094	10.9*
Chlorobenzene *	0.487	0.581	0.578	0.588	0.575	0.562	7.5*
1,1,1,2-Tetrachloroethane *	0.158	0.184	0.177	0.191	0.187	0.179	7.3*
Ethylbenzene *	0.908	1.106	1.150	1.111	1.094	1.074	8.8*
m,p-Xylene *	0.357	0.427	0.445	0.433	0.410	0.414	8.3*
o-Xylene *	0.321	0.404	0.404	0.401	0.388	0.384	9.3*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Calibration Time(s): 0938 1438

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

LAB FILE ID: RRF0.5=V2D5175 RRF4 =V2D5178
RRF10 =V2D5171 RRF20 =V2D5177 RRF40 =V2D5176

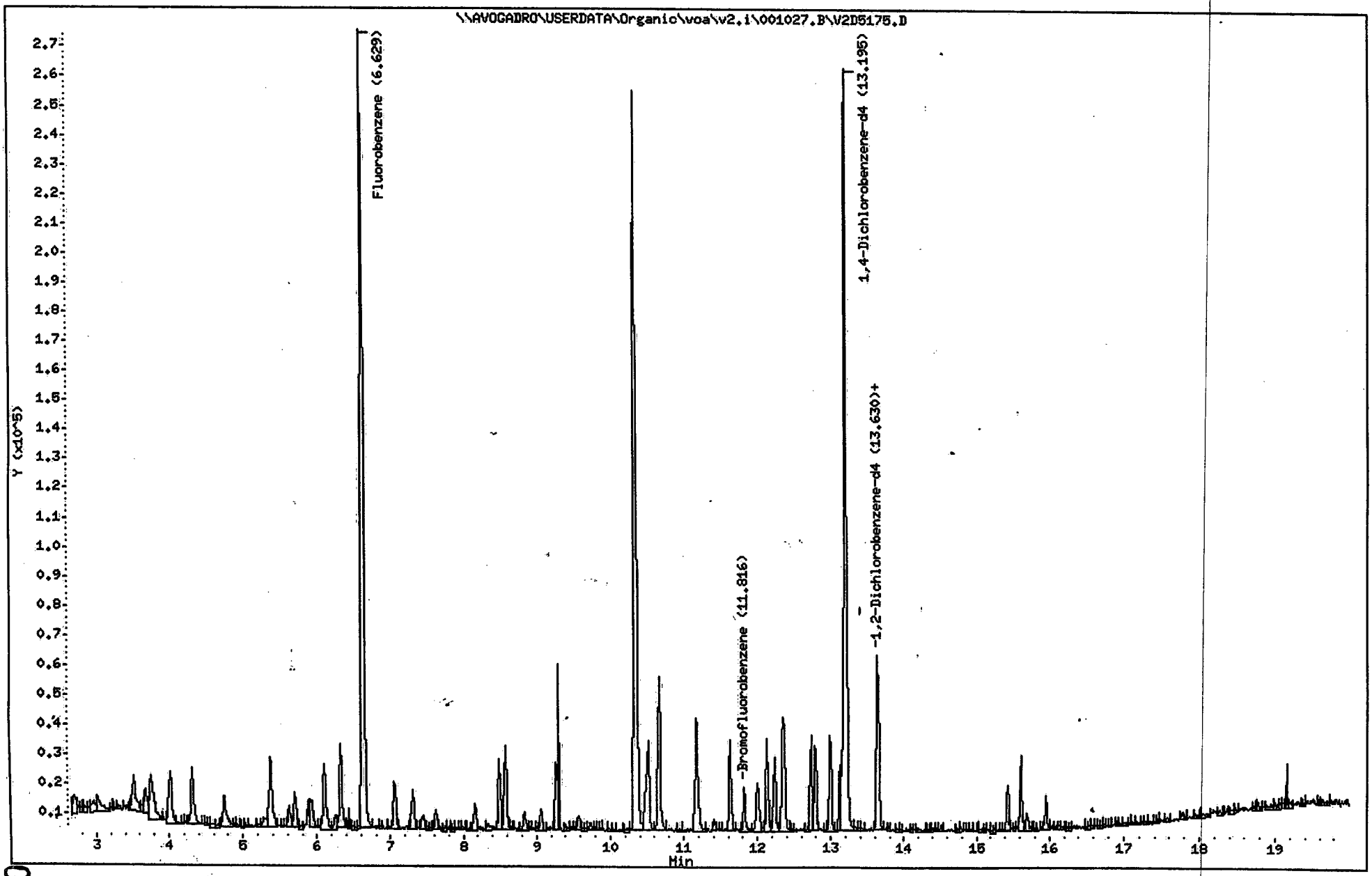
COMPOUND	RRF0.5	RRF4	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Styrene *	0.442	0.598	0.597	0.622	0.602	0.572	12.8*
Bromoform *	0.064	0.077	0.075	0.089	0.091	0.079	13.8*
Isopropylbenzene *	0.830	1.103	1.145	1.136	1.116	1.066	12.5*
1,1,2,2-Tetrachloroethane *	0.276	0.324	0.333	0.322	0.304	0.312	7.2*
Bromobenzene *	0.611	0.697	0.718	0.694	0.667	0.677	6.1*
1,2,3-Trichloropropane *	0.207	0.261	0.281	0.259	0.252	0.252	10.9*
n-Propylbenzene *	3.241	4.113	4.556	3.993	3.749	3.930	12.3*
2-Chlorotoluene *	1.916	2.196	2.337	2.107	2.000	2.111	7.8*
1,3,5-Trimethylbenzene *	2.133	2.682	2.946	2.594	2.420	2.555	11.8*
4-Chlorotoluene *	2.055	2.403	2.534	2.312	2.164	2.294	8.3*
tert-Butylbenzene *	1.885	2.345	2.514	2.253	2.160	2.231	10.5*
1,2,4-Trimethylbenzene *	2.041	2.634	2.851	2.557	2.447	2.506	11.9*
sec-Butylbenzene *	2.864	3.854	4.174	3.680	3.505	3.615	13.5*
1,3-Dichlorobenzene *	1.330	1.491	1.521	1.473	1.420	1.447	5.2*
4-Isopropyltoluene *	2.323	3.009	3.296	2.961	2.800	2.878	12.4*
1,4-Dichlorobenzene *	1.328	1.463	1.436	1.409	1.352	1.398	4.0*
n-Butylbenzene *	2.354	3.094	3.362	2.921	2.722	2.891	13.2*
1,2-Dichlorobenzene *	1.032	1.158	1.161	1.111	1.066	1.106	5.1*
1,2-Dibromo-3-chloropropane	0.055	0.035	0.034	0.036	0.034	0.039	23.5
1,2,4-Trichlorobenzene *	0.701	0.886	0.880	0.910	0.865	0.848	9.9*
Hexachlorobutadiene *	0.747	0.789	0.776	0.754	0.710	0.755	4.1*
Naphthalene *	0.633	0.783	0.802	0.829	0.793	0.768	10.1*
1,2,3-Trichlorobenzene *	0.558	0.650	0.636	0.660	0.618	0.624	6.4*
Bromofluorobenzene *	0.206	0.238	0.238	0.254	0.251	0.237	8.0*
1,2-Dichlorobenzene-d4 *	0.722	0.778	0.786	0.753	0.688	0.745	5.5*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5175.D
Date : 27-OCT-2000 13:00
Client ID: VSTD00052Y
Sample Info: 524,V2S1027B,VSTD00052Y
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5175.D
Report Date: 27-Oct-2000 14:34

Mitkem Corpoaration

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5175.D
Lab Smp Id: V2S1027B Client Smp ID: VSTD00052Y
Inj Date : 27-OCT-2000 13:00
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027B,VSTD00052Y
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\v2524.m
Meth Date : 27-Oct-2000 14:33 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 13:00 Cal File: V2D5175.D
Als bottle: 4 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)
	1 Dichlorodifluoromethane	85	1.930	1.934	(0.291)	4820	0.50000	0.4(a)
	2 Chloromethane	50	2.100	2.114	(0.317)	13808	0.50000	0.5
	3 Vinyl Chloride	62	2.248	2.263	(0.339)	9933	0.50000	0.4(a)
	4 Bromomethane	94	2.588	2.602	(0.390)	7224	0.50000	0.5
	5 Chloroethane	64	2.683	2.698	(0.405)	6156	0.50000	0.4(a)
	6 Trichlorofluoromethane	101	3.012	3.037	(0.454)	4092	0.50000	0.4(a)
	7 1,1-Dichloroethene	96	3.511	3.525	(0.530)	6067	0.50000	0.5
	8 Methylene Chloride	84	4.020	4.024	(0.606)	9902	0.50000	0.7
	9 trans-1,2-Dichloroethene	96	4.306	4.321	(0.650)	7358	0.50000	0.4(a)
	10 Methyl tert-butyl ether	73	4.306	4.331	(0.650)	7675	0.50000	0.5
	11 1,1-Dichloroethane	63	4.752	4.756	(0.717)	13687	0.50000	0.4(a)
	12 cis-1,2-Dichloroethene	96	5.367	5.371	(0.810)	6694	0.50000	0.4(a)
	13 2,2-Dichloropropane	77	5.378	5.392	(0.811)	9064	0.50000	0.4(a)
M	14 1,2-Dichloroethene (Total)	96				14052	1.00000	0.9
	15 Bromochloromethane	128	5.622	5.636	(0.848)	2471	0.50000	0.5
	16 Chloroform	83	5.706	5.710	(0.861)	10576	0.50000	0.5

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5175.D
Report Date: 27-Oct-2000 14:34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.919	5.933	(0.893)	7998	0.50000	0.4(a)
	18 1,1-Dichloropropene	75	6.099	6.103	(0.920)	8734	0.50000	0.4(a)
	19 Carbon Tetrachloride	117	6.120	6.124	(0.923)	6682	0.50000	0.4(a)
	20 Benzene	78	6.322	6.336	(0.954)	26998	0.50000	0.4(a)
	21 1,2-Dichloroethane	62	6.343	6.347	(0.957)	4670	0.50000	0.5(M)
*	22 Fluorobenzene	96	6.629	6.644	(1.000)	292213	5.00000	
	23 Trichloroethene	95	7.064	7.058	(1.066)	6865	0.50000	0.4(a)
	24 1,2-Dichloropropane	63	7.308	7.312	(1.102)	6169	0.50000	0.4(Ta)
	25 Dibromomethane	93	7.446	7.450	(1.123)	2176	0.50000	0.5
	26 Bromodichloromethane	83	7.616	7.630	(1.149)	5210	0.50000	0.4(aM)
	27 cis-1,3-Dichloropropene	75	8.157	8.161	(1.230)	6388	0.50000	0.4(a)
	28 Toluene	92	8.570	8.585	(1.293)	15121	0.50000	0.4(a)
	29 trans-1,3-Dichloropropene	75	8.836	8.840	(1.333)	3937	0.50000	0.4(a)
	30 1,1,2-Trichloroethane	83	9.069	9.073	(1.368)	2280	0.50000	0.4(a)
	31 Tetrachloroethene	166	9.271	9.275	(1.398)	8224	0.50000	0.4(a)
	32 1,3-Dichloropropane	76	9.271	9.285	(1.398)	3971	0.50000	0.4(a)
	33 Dibromochloromethane	129	9.578	9.582	(1.445)	3246	0.50000	0.4(a)
	34 1,2-Dibromoethane	107	9.727	9.731	(1.467)	2249	0.50000	0.4(a)
	35 Chlorobenzene	112	10.374	10.378	(1.565)	14222	0.50000	0.4(a)
	36 1,1,1,2-Tetrachloroethane	131	10.469	10.484	(1.579)	4613	0.50000	0.4(a)
	37 Ethylbenzene	91	10.512	10.516	(1.586)	26547	0.50000	0.4(a)
	38 m,p-Xylene	106	10.671	10.664	(1.610)	20878	1.00000	0.9
	39 o-Xylene	106	11.169	11.173	(1.685)	9383	0.50000	0.4(a)
	40 Styrene	104	11.191	11.184	(1.688)	12928	0.50000	0.4(a)
	42 Bromoform	173	11.413	11.417	(1.722)	1879	0.50000	0.4(a)
	43 Isopropylbenzene	105	11.625	11.629	(1.754)	24265	0.50000	0.4(a)
M	41 Xylene (Total)	106				30261	1.50000	1
$	44 Bromofluorobenzene	95	11.816	11.820	(1.782)	6020	0.50000	0.4(a)
	45 1,1,2,2-Tetrachloroethane	83	11.986	11.980	(0.908)	2555	0.50000	0.4(a)
	46 Bromobenzene	156	12.007	12.001	(0.910)	5649	0.50000	0.4(a)
	47 1,2,3-Trichloropropane	75	12.029	12.033	(0.912)	1914	0.50000	0.4(a)
	48 n-Propylbenzene	91	12.135	12.128	(0.920)	29978	0.50000	0.4(a)
	49 2-Chlorotoluene	91	12.230	12.234	(0.927)	17717	0.50000	0.4(a)
	50 1,3,5-Trimethylbenzene	105	12.347	12.340	(0.936)	19732	0.50000	0.4(a)
	51 4-Chlorotoluene	91	12.368	12.361	(0.937)	19010	0.50000	0.4(a)
	52 tert-Butylbenzene	119	12.729	12.733	(0.965)	17432	0.50000	0.4(a)
	53 1,2,4-Trimethylbenzene	105	12.792	12.786	(0.969)	18880	0.50000	0.4(a)
	54 sec-Butylbenzene	105	12.983	12.987	(0.984)	26487	0.50000	0.4(a)
	55 1,3-Dichlorobenzene	146	13.121	13.125	(0.994)	12297	0.50000	0.5
	56 4-Isopropyltoluene	119	13.153	13.157	(0.997)	21485	0.50000	0.4(a)
*	57 1,4-Dichlorobenzene-d4	152	13.195	13.199	(1.000)	92491	5.00000	
	58 1,4-Dichlorobenzene	146	13.217	13.221	(1.002)	12286	0.50000	0.5
$	59 1,2-Dichlorobenzene-d4	152	13.630	13.634	(1.033)	6681	0.50000	0.5
	60 n-Butylbenzene	91	13.630	13.634	(1.033)	21774	0.50000	0.4(a)
	61 1,2-Dichlorobenzene	146	13.641	13.656	(1.034)	9542	0.50000	0.5
	62 1,2-Dibromo-3-chloropropane	75	14.521	14.515	(1.100)	512	0.50000	0.7(M)
	63 1,2,4-Trichlorobenzene	180	15.434	15.438	(1.170)	6488	0.50000	0.4(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5175.D
Report Date: 27-Oct-2000 14:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.614	15.618	(1.183)	6909	0.50000	0.5
65 Naphthalene	128	15.699	15.692	(1.190)	5851	0.50000	0.4(a)
66 1,2,3-Trichlorobenzene	180	15.953	15.957	(1.209)	5165	0.50000	0.4(a)

QC Flag Legend

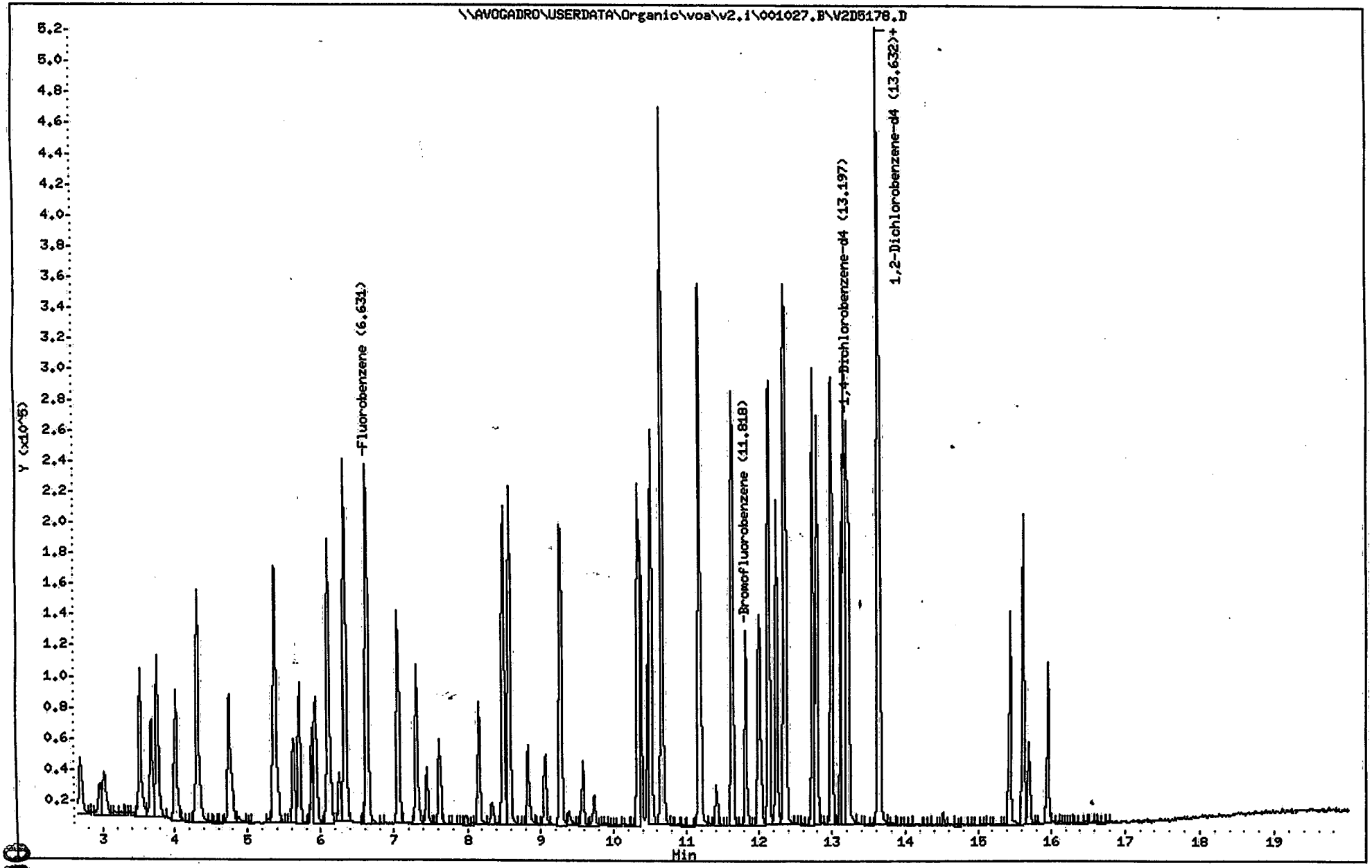
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

12/31/2

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5178.D
Date : 27-OCT-2000 14:38
Client ID: VSTD0042Y
Sample Info: 624,V2S1027E,VSTD0042Y
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5178.D
Report Date: 27-Oct-2000 14:57

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5178.D
Lab Smp Id: V2S1027E Client Smp ID: VSTD0042Y
Inj Date : 27-OCT-2000 14:38
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027E,VSTD0042Y
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\v2524.m
Meth Date : 27-Oct-2000 14:57 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.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	1.931	1.934	(0.291)	44294	4.00000	4
	2 Chloromethane	50	2.101	2.114	(0.317)	113071	4.00000	4
	3 Vinyl Chloride	62	2.250	2.263	(0.339)	90519	4.00000	4
	4 Bromomethane	94	2.589	2.602	(0.390)	56391	4.00000	4
	5 Chloroethane	64	2.695	2.698	(0.406)	51783	4.00000	4
	6 Trichlorofluoromethane	101	3.024	3.037	(0.456)	36365	4.00000	4
	7 1,1-Dichloroethene	96	3.512	3.525	(0.530)	46027	4.00000	4
	8 Methylene Chloride	84	4.021	4.024	(0.606)	48638	4.00000	4
	9 trans-1,2-Dichloroethene	96	4.318	4.321	(0.651)	59898	4.00000	4
	10 Methyl tert-butyl ether	73	4.329	4.331	(0.653)	54474	4.00000	4
	11 1,1-Dichloroethane	63	4.753	4.756	(0.717)	113699	4.00000	4
	12 cis-1,2-Dichloroethene	96	5.368	5.371	(0.810)	52299	4.00000	4
	13 2,2-Dichloropropane	77	5.379	5.392	(0.811)	70357	4.00000	4
M	14 1,2-Dichloroethene (Total)	96				112197	8.00000	8
	15 Bromochloromethane	128	5.633	5.636	(0.850)	18686	4.00000	4
	16 Chloroform	83	5.708	5.710	(0.861)	80467	4.00000	4

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5178.D
Report Date: 27-Oct-2000 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.931	5.933	(0.894)	67259	4.00000	4
	18 1,1-Dichloropropene	75	6.100	6.103	(0.920)	76192	4.00000	4
	19 Carbon Tetrachloride	117	6.121	6.124	(0.923)	57392	4.00000	4
	20 Benzene	78	6.334	6.336	(0.955)	212225	4.00000	4
	21 1,2-Dichloroethane	62	6.334	6.347	(0.955)	35130	4.00000	4
*	22 Fluorobenzene	96	6.631	6.644	(1.000)	252362	5.00000	
	23 Trichloroethene	95	7.055	7.058	(1.064)	55061	4.00000	4
	24 1,2-Dichloropropane	63	7.309	7.312	(1.102)	49809	4.00000	4
	25 Dibromomethane	93	7.447	7.450	(1.123)	15674	4.00000	4
	26 Bromodichloromethane	83	7.628	7.630	(1.150)	44218	4.00000	4
	27 cis-1,3-Dichloropropene	75	8.158	8.161	(1.230)	52494	4.00000	4
	28 Toluene	92	8.582	8.585	(1.294)	124932	4.00000	4
	29 trans-1,3-Dichloropropene	75	8.837	8.840	(1.333)	33334	4.00000	4
	30 1,1,2-Trichloroethane	83	9.070	9.073	(1.368)	17516	4.00000	4
	31 Tetrachloroethene	166	9.272	9.275	(1.398)	67287	4.00000	4
	32 1,3-Dichloropropane	76	9.283	9.285	(1.400)	34178	4.00000	4
	33 Dibromochloromethane	129	9.579	9.582	(1.445)	26587	4.00000	4
	34 1,2-Dibromoethane	107	9.739	9.731	(1.469)	19189	4.00000	4
	35 Chlorobenzene	112	10.375	10.378	(1.565)	117260	4.00000	4
	36 1,1,1,2-Tetrachloroethane	131	10.481	10.484	(1.581)	37069	4.00000	4
	37 Ethylbenzene	91	10.513	10.516	(1.586)	223248	4.00000	4
	38 m,p-Xylene	106	10.672	10.664	(1.610)	172447	8.00000	8
	39 o-Xylene	106	11.171	11.173	(1.685)	81613	4.00000	4
	40 Styrene	104	11.181	11.184	(1.686)	120743	4.00000	4
	42 Bromoform	173	11.415	11.417	(1.722)	15561	4.00000	4
	43 Isopropylbenzene	105	11.627	11.629	(1.754)	222691	4.00000	4
M	41 Xylene (Total)	106				254060	12.0000	12
$	44 Bromofluorobenzene	95	11.818	11.820	(1.782)	48027	4.00000	4
	45 1,1,2,2-Tetrachloroethane	83	11.987	11.980	(0.908)	21736	4.00000	4
	46 Bromobenzene	156	12.009	12.001	(0.910)	46743	4.00000	4
	47 1,2,3-Trichloropropane	75	12.040	12.033	(0.912)	17524	4.00000	4
	48 n-Propylbenzene	91	12.136	12.128	(0.920)	275741	4.00000	4
	49 2-Chlorotoluene	91	12.231	12.234	(0.927)	147228	4.00000	4
	50 1,3,5-Trimethylbenzene	105	12.348	12.340	(0.936)	179824	4.00000	4
	51 4-Chlorotoluene	91	12.369	12.361	(0.937)	161061	4.00000	4
	52 tert-Butylbenzene	119	12.730	12.733	(0.965)	157184	4.00000	4
	53 1,2,4-Trimethylbenzene	105	12.794	12.786	(0.969)	176543	4.00000	4
	54 sec-Butylbenzene	105	12.995	12.987	(0.985)	258315	4.00000	4
	55 1,3-Dichlorobenzene	146	13.122	13.125	(0.994)	99958	4.00000	4
	56 4-Isopropyltoluene	119	13.154	13.157	(0.997)	201737	4.00000	4
*	57 1,4-Dichlorobenzene-d4	152	13.197	13.199	(1.000)	83792	5.00000	
	58 1,4-Dichlorobenzene	146	13.229	13.221	(1.002)	98058	4.00000	4
$	59 1,2-Dichlorobenzene-d4	152	13.632	13.634	(1.033)	52190	4.00000	4
	60 n-Butylbenzene	91	13.632	13.634	(1.033)	207423	4.00000	4
	61 1,2-Dichlorobenzene	146	13.653	13.656	(1.035)	77656	4.00000	4
	62 1,2-Dibromo-3-chloropropane	75	14.523	14.515	(1.100)	2335	4.00000	4
	63 1,2,4-Trichlorobenzene	180	15.435	15.438	(1.170)	59417	4.00000	4

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5178.D
Report Date: 27-Oct-2000 14:57

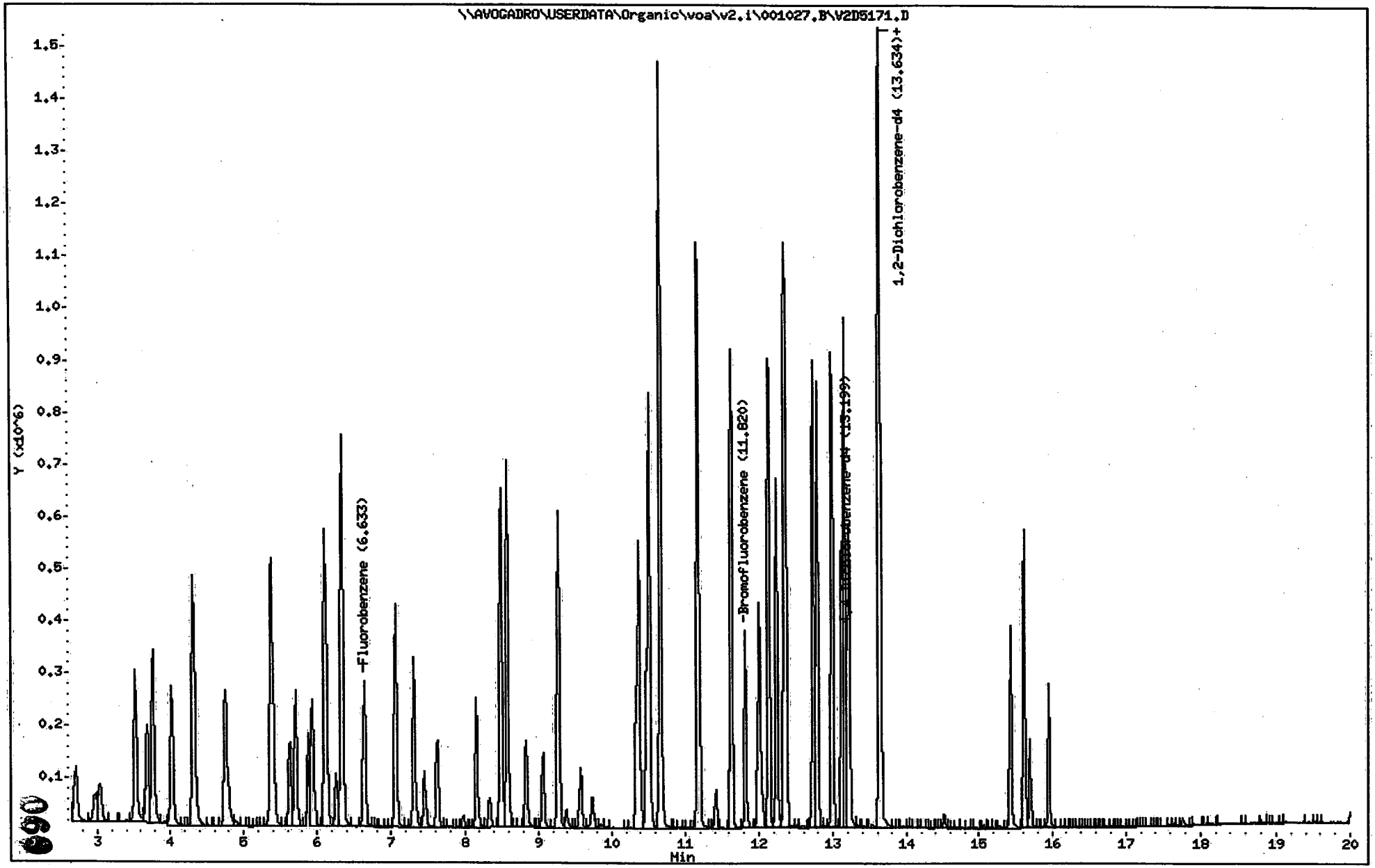
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.615	15.618	(1.183)	52919	4.00000	4
65 Naphthalene	128	15.700	15.692	(1.190)	52496	4.00000	4
66 1,2,3-Trichlorobenzene	180	15.955	15.957	(1.209)	43545	4.00000	4

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5171.D
Date : 27-OCT-2000 09:38
Client ID: VSTD0502Y
Sample Info: 524,V2S1027A,VSTD0502Y
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5171.D
Report Date: 27-Oct-2000 14:33

Mitkem Corpoaration

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5171.D
Lab Smp Id: V2S1027A Client Smp ID: VSTD0502Y
Inj Date : 27-OCT-2000 09:38
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027A,VSTD0502Y
Misc Info : ,1,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\v2524.m
Meth Date : 27-Oct-2000 14:33 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 09:38 Cal File: V2D5171.D
Als bottle: 1 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)
	1 Dichlorodifluoromethane	85	1.934	1.934	(0.291)	132478	10.0000	11
	2 Chloromethane	50	2.114	2.114	(0.318)	335092	10.0000	11
	3 Vinyl Chloride	62	2.263	2.263	(0.341)	269311	10.0000	11
	4 Bromomethane	94	2.602	2.602	(0.392)	163558	10.0000	10
	5 Chloroethane	64	2.698	2.698	(0.406)	163085	10.0000	11
	6 Trichlorofluoromethane	101	3.037	3.037	(0.457)	102693	10.0000	10
	7 1,1-Dichloroethene	96	3.525	3.525	(0.531)	147563	10.0000	11
	8 Methylene Chloride	84	4.024	4.024	(0.606)	143838	10.0000	9
	9 trans-1,2-Dichloroethene	96	4.321	4.321	(0.650)	194358	10.0000	11
	10 Methyl tert-butyl ether	73	4.331	4.331	(0.652)	167083	10.0000	10
	11 1,1-Dichloroethane	63	4.756	4.756	(0.716)	358976	10.0000	11
	12 cis-1,2-Dichloroethene	96	5.371	5.371	(0.808)	165815	10.0000	11
	13 2,2-Dichloropropane	77	5.392	5.392	(0.812)	227844	10.0000	11
M	14 1,2-Dichloroethene (Total)	96				360173	20.0000	22
	15 Bromochloromethane	128	5.636	5.636	(0.848)	53849	10.0000	10
	16 Chloroform	83	5.710	5.710	(0.859)	239359	10.0000	10

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5171.D
Report Date: 27-Oct-2000 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.933	5.933	(0.893)	201934	10.0000	10
	18 1,1-Dichloropropene	75	6.103	6.103	(0.919)	241459	10.0000	11
	19 Carbon Tetrachloride	117	6.124	6.124	(0.922)	174136	10.0000	11
	20 Benzene	78	6.336	6.336	(0.954)	670398	10.0000	11
	21 1,2-Dichloroethane	62	6.347	6.347	(0.955)	99836	10.0000	10
*	22 Fluorobenzene	96	6.644	6.644	(1.000)	307884	5.00000	
	23 Trichloroethene	95	7.058	7.058	(1.062)	175268	10.0000	11
	24 1,2-Dichloropropane	63	7.312	7.312	(1.101)	163063	10.0000	11
	25 Dibromomethane	93	7.450	7.450	(1.121)	47054	10.0000	10
	26 Bromodichloromethane	83	7.630	7.630	(1.148)	128962	10.0000	10
	27 cis-1,3-Dichloropropene	75	8.161	8.161	(1.228)	168315	10.0000	10
	28 Toluene	92	8.585	8.585	(1.292)	389235	10.0000	11
	29 trans-1,3-Dichloropropene	75	8.840	8.840	(1.330)	102964	10.0000	10
	30 1,1,2-Trichloroethane	83	9.073	9.073	(1.366)	53631	10.0000	10
	31 Tetrachloroethene	166	9.275	9.275	(1.396)	209070	10.0000	10
	32 1,3-Dichloropropane	76	9.285	9.285	(1.398)	106650	10.0000	11
	33 Dibromochloromethane	129	9.582	9.582	(1.442)	76916	10.0000	10
	34 1,2-Dibromoethane	107	9.731	9.731	(1.465)	57444	10.0000	10
	35 Chlorobenzene	112	10.378	10.378	(1.562)	356095	10.0000	10
	36 1,1,1,2-Tetrachloroethane	131	10.484	10.484	(1.578)	109048	10.0000	10
	37 Ethylbenzene	91	10.516	10.516	(1.583)	708245	10.0000	11
	38 m,p-Xylene	106	10.664	10.664	(1.605)	547565	20.0000	22
	39 o-Xylene	106	11.173	11.173	(1.682)	249065	10.0000	11
	40 Styrene	104	11.184	11.184	(1.683)	367580	10.0000	10
	42 Bromoform	173	11.417	11.417	(1.718)	46036	10.0000	9
	43 Isopropylbenzene	105	11.629	11.629	(1.750)	705069	10.0000	11
M	41 Xylene (Total)	106				796630	30.0000	32
$	44 Bromofluorobenzene	95	11.820	11.820	(1.779)	146337	10.0000	10
	45 1,1,2,2-Tetrachloroethane	83	11.980	11.980	(0.908)	63379	10.0000	11
	46 Bromobenzene	156	12.001	12.001	(0.909)	136475	10.0000	11
	47 1,2,3-Trichloropropane	75	12.033	12.033	(0.912)	53508	10.0000	11
	48 n-Propylbenzene	91	12.128	12.128	(0.919)	866233	10.0000	12
	49 2-Chlorotoluene	91	12.234	12.234	(0.927)	444390	10.0000	11
	50 1,3,5-Trimethylbenzene	105	12.340	12.340	(0.935)	560026	10.0000	12
	51 4-Chlorotoluene	91	12.361	12.361	(0.937)	481765	10.0000	11
	52 tert-Butylbenzene	119	12.733	12.733	(0.965)	477876	10.0000	11
	53 1,2,4-Trimethylbenzene	105	12.786	12.786	(0.969)	542046	10.0000	12
	54 sec-Butylbenzene	105	12.987	12.987	(0.984)	793650	10.0000	12
	55 1,3-Dichlorobenzene	146	13.125	13.125	(0.994)	289122	10.0000	10
	56 4-Isopropyltoluene	119	13.157	13.157	(0.997)	626746	10.0000	12
*	57 1,4-Dichlorobenzene-d4	152	13.199	13.199	(1.000)	95060	5.00000	
	58 1,4-Dichlorobenzene	146	13.221	13.221	(1.002)	273006	10.0000	10
$	59 1,2-Dichlorobenzene-d4	152	13.634	13.634	(1.033)	149512	10.0000	11
	60 n-Butylbenzene	91	13.634	13.634	(1.033)	639294	10.0000	12
	61 1,2-Dichlorobenzene	146	13.656	13.656	(1.035)	220673	10.0000	11
	62 1,2-Dibromo-3-chloropropane	75	14.515	14.515	(1.100)	6577	10.0000	10
	63 1,2,4-Trichlorobenzene	180	15.438	15.438	(1.170)	167377	10.0000	10

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5171.D
Report Date: 27-Oct-2000 14:33

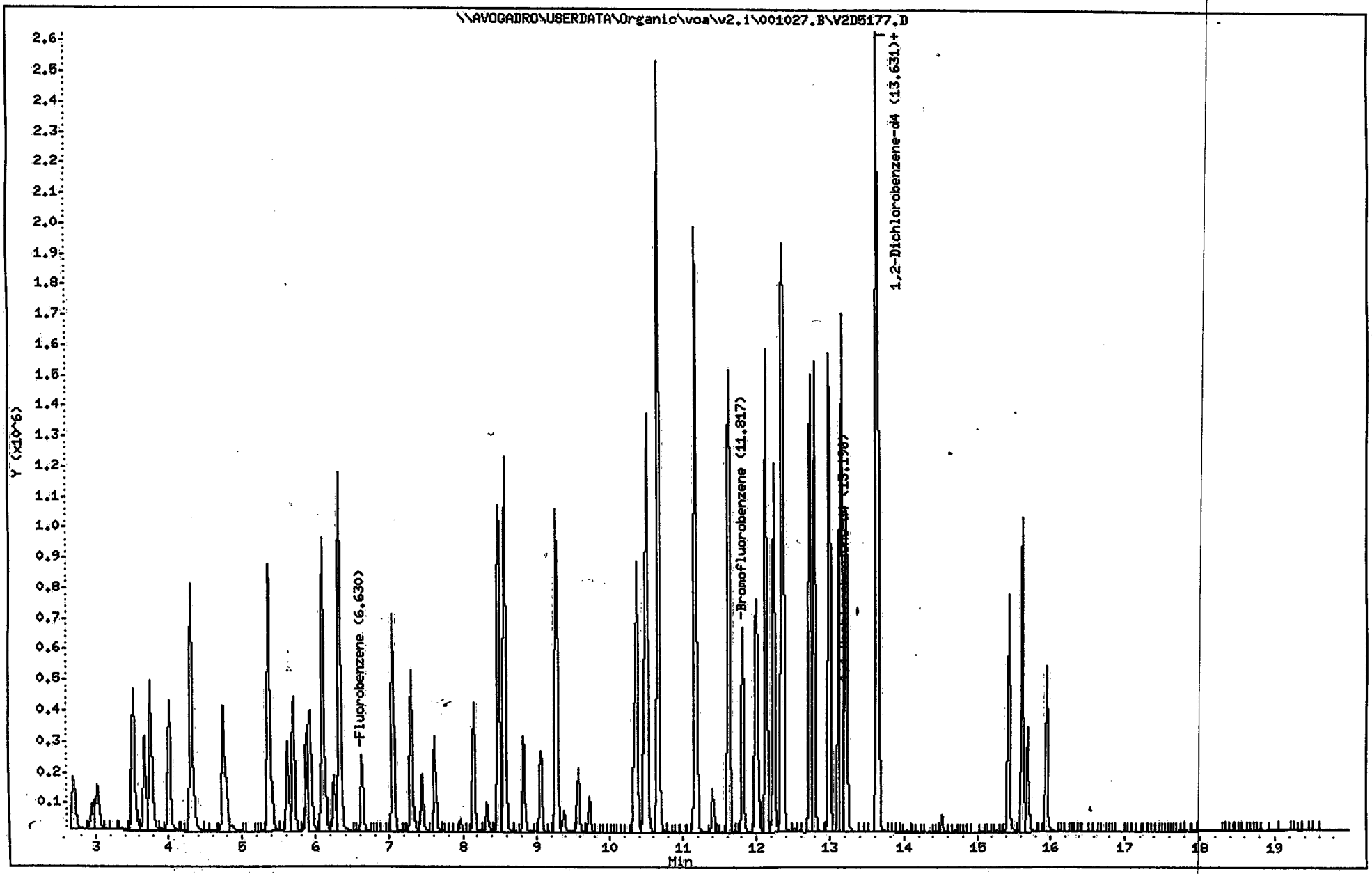
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.618	15.618	(1.183)	147481	10.0000	10
65 Naphthalene	128	15.692	15.692	(1.189)	152446	10.0000	10
66 1,2,3-Trichlorobenzene	180	15.957	15.957	(1.209)	120975	10.0000	10

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5177.D
Date : 27-OCT-2000 14:06
Client ID: VSTD0202Y
Sample Info: 524,V2S1027D,VSTD0202Y
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



073

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5177.D
Report Date: 27-Oct-2000 14:32

Mitkem Corpoaration

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5177.D
Lab Smp Id: V2S1027D Client Smp ID: VSTD0202Y
Inj Date : 27-OCT-2000 14:06
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027D,VSTD0202Y
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\v2524.m
Meth Date : 27-Oct-2000 14:31 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:06 Cal File: V2D5177.D
Als bottle: 6 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)
	1 Dichlorodifluoromethane	85	1.931	1.934	(0.291)	220635	20.0000	21
	2 Chloromethane	50	2.111	2.114	(0.318)	563957	20.0000	21
	3 Vinyl Chloride	62	2.260	2.263	(0.341)	454061	20.0000	22
	4 Bromomethane	94	2.599	2.602	(0.392)	279560	20.0000	21
	5 Chloroethane	64	2.695	2.698	(0.406)	258115	20.0000	22
	6 Trichlorofluoromethane	101	3.024	3.037	(0.456)	198682	20.0000	21
	7 1,1-Dichloroethene	96	3.522	3.525	(0.531)	240986	20.0000	21
	8 Methylene Chloride	84	4.021	4.024	(0.606)	244090	20.0000	18
	9 trans-1,2-Dichloroethene	96	4.307	4.321	(0.650)	308049	20.0000	21
	10 Methyl tert-butyl ether	73	4.318	4.331	(0.651)	300447	20.0000	21
	11 1,1-Dichloroethane	63	4.742	4.756	(0.715)	572405	20.0000	21
	12 cis-1,2-Dichloroethene	96	5.368	5.371	(0.810)	274519	20.0000	21
	13 2,2-Dichloropropane	77	5.378	5.392	(0.811)	365113	20.0000	21
M	14 1,2-Dichloroethene (Total)	96				582569	40.0000	43
	15 Bromochloromethane	128	5.622	5.636	(0.848)	99401	20.0000	21
	16 Chloroform	83	5.707	5.710	(0.861)	413960	20.0000	21

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5177.D
Report Date: 27-Oct-2000 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.930	5.933	(0.894)	344342	20.0000	21
	18 1,1-Dichloropropene	75	6.100	6.103	(0.920)	391182	20.0000	22
	19 Carbon Tetrachloride	117	6.121	6.124	(0.923)	294101	20.0000	22
	20 Benzene	78	6.322	6.336	(0.954)	1084255	20.0000	21
	21 1,2-Dichloroethane	62	6.333	6.347	(0.955)	182690	20.0000	20
*	22 Fluorobenzene	96	6.630	6.644	(1.000)	263463	5.00000	
	23 Trichloroethene	95	7.055	7.058	(1.064)	286447	20.0000	21
	24 1,2-Dichloropropane	63	7.298	7.312	(1.101)	264020	20.0000	21
	25 Dibromomethane	93	7.436	7.450	(1.122)	83965	20.0000	20
	26 Bromodichloromethane	83	7.617	7.630	(1.149)	235614	20.0000	20
	27 cis-1,3-Dichloropropene	75	8.147	8.161	(1.229)	293403	20.0000	22
	28 Toluene	92	8.571	8.585	(1.293)	649588	20.0000	21
	29 trans-1,3-Dichloropropene	75	8.826	8.840	(1.331)	191026	20.0000	22
	30 1,1,2-Trichloroethane	83	9.059	9.073	(1.366)	95615	20.0000	21
	31 Tetrachloroethene	166	9.271	9.275	(1.398)	352419	20.0000	21
	32 1,3-Dichloropropane	76	9.282	9.285	(1.400)	182987	20.0000	22
	33 Dibromochloromethane	129	9.579	9.582	(1.445)	145630	20.0000	21
	34 1,2-Dibromoethane	107	9.728	9.731	(1.467)	107398	20.0000	22
	35 Chlorobenzene	112	10.375	10.378	(1.565)	619872	20.0000	21
	36 1,1,1,2-Tetrachloroethane	131	10.470	10.484	(1.579)	201691	20.0000	21
	37 Ethylbenzene	91	10.513	10.516	(1.586)	1170884	20.0000	21
	38 m,p-Xylene	106	10.661	10.664	(1.608)	912278	40.0000	43
	39 o-Xylene	106	11.170	11.173	(1.685)	423032	20.0000	22
	40 Styrene	104	11.181	11.184	(1.686)	655607	20.0000	22
	42 Bromoform	173	11.414	11.417	(1.722)	93928	20.0000	22
	43 Isopropylbenzene	105	11.626	11.629	(1.754)	1197360	20.0000	22
M	41 Xylene (Total)	106				1335310	60.0000	65
$	44 Bromofluorobenzene	95	11.807	11.820	(1.781)	267275	20.0000	21
	45 1,1,2,2-Tetrachloroethane	83	11.976	11.980	(0.908)	118716	20.0000	21
	46 Bromobenzene	156	11.998	12.001	(0.909)	256205	20.0000	21
	47 1,2,3-Trichloropropane	75	12.029	12.033	(0.912)	95512	20.0000	22
	48 n-Propylbenzene	91	12.125	12.128	(0.919)	1473511	20.0000	22
	49 2-Chlorotoluene	91	12.231	12.234	(0.927)	777590	20.0000	21
	50 1,3,5-Trimethylbenzene	105	12.337	12.340	(0.935)	957307	20.0000	22
	51 4-Chlorotoluene	91	12.358	12.361	(0.936)	853355	20.0000	21
	52 tert-Butylbenzene	119	12.730	12.733	(0.965)	831219	20.0000	21
	53 1,2,4-Trimethylbenzene	105	12.783	12.786	(0.969)	943466	20.0000	22
	54 sec-Butylbenzene	105	12.984	12.987	(0.984)	1358142	20.0000	22
	55 1,3-Dichlorobenzene	146	13.122	13.125	(0.994)	543638	20.0000	21
	56 4-Isopropyltoluene	119	13.154	13.157	(0.997)	1092622	20.0000	22
*	57 1,4-Dichlorobenzene-d4	152	13.196	13.199	(1.000)	92251	5.00000	
	58 1,4-Dichlorobenzene	146	13.218	13.221	(1.002)	519972	20.0000	21
$	59 1,2-Dichlorobenzene-d4	152	13.621	13.634	(1.032)	277965	20.0000	21
	60 n-Butylbenzene	91	13.621	13.634	(1.032)	1077717	20.0000	22
	61 1,2-Dichlorobenzene	146	13.652	13.656	(1.035)	409903	20.0000	21
	62 1,2-Dibromo-3-chloropropane	75	14.512	14.515	(1.100)	13298	20.0000	20
	63 1,2,4-Trichlorobenzene	180	15.424	15.438	(1.169)	335778	20.0000	22

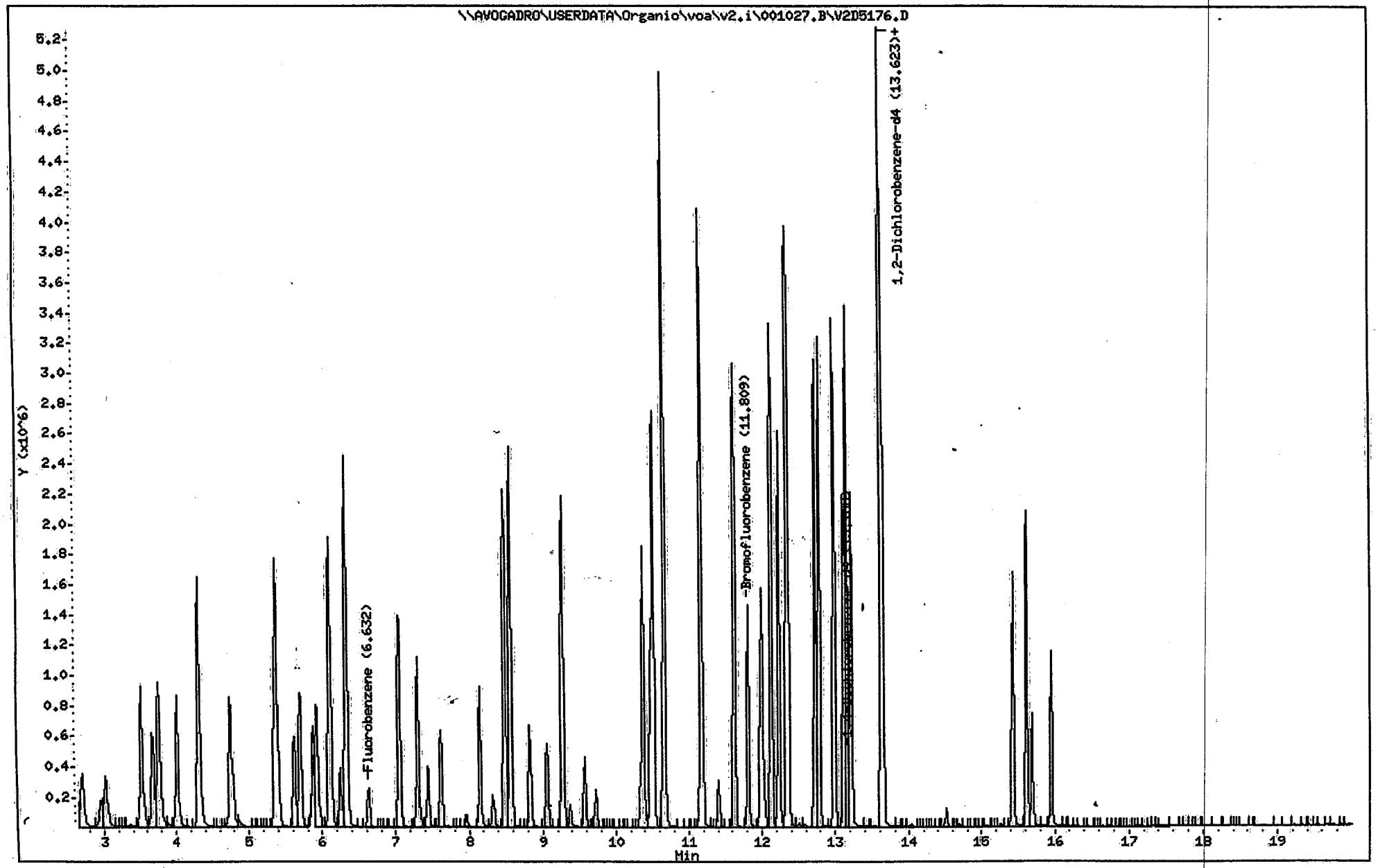
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5177.D
Report Date: 27-Oct-2000 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.615	15.618	(1.183)	278054	20.0000	20
65 Naphthalene	128	15.689	15.692	(1.189)	305882	20.0000	22
66 1,2,3-Trichlorobenzene	180	15.954	15.957	(1.209)	243463	20.0000	22

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5176.D
Date : 27-OCT-2000 13:33
Client ID: VSTD0402Y
Sample Info: 524,V2S1027C,VSTD0402Y
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



077

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5176.D
Report Date: 27-Oct-2000 14:31

Mitkem Corpoaration

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5176.D
Lab Smp Id: V2S1027C Client Smp ID: VSTD0402Y
Inj Date : 27-OCT-2000 13:33
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027C,VSTD0402Y
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\v2524.m
Meth Date : 27-Oct-2000 14:31 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 13:33 Cal File: V2D5176.D
Als bottle: 5 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)
	1 Dichlorodifluoromethane	85	1.933	1.934	(0.291)	471728	40.0000	45(A)
	2 Chloromethane	50	2.124	2.114	(0.320)	1073727	40.0000	40(A)
	3 Vinyl Chloride	62	2.262	2.263	(0.341)	866665	40.0000	43(A)
	4 Bromomethane	94	2.612	2.602	(0.394)	528174	40.0000	39
	5 Chloroethane	64	2.697	2.698	(0.407)	495785	40.0000	41(A)
	6 Trichlorofluoromethane	101	3.026	3.037	(0.456)	453984	40.0000	48(A)
	7 1,1-Dichloroethene	96	3.514	3.525	(0.530)	470760	40.0000	40(A)
	8 Methylene Chloride	84	4.012	4.024	(0.605)	485687	40.0000	31
	9 trans-1,2-Dichloroethene	96	4.309	4.321	(0.650)	601921	40.0000	42(A)
	10 Methyl tert-butyl ether	73	4.320	4.331	(0.651)	605036	40.0000	41(A)
	11 1,1-Dichloroethane	63	4.744	4.756	(0.715)	1152678	40.0000	42(A)
	12 cis-1,2-Dichloroethene	96	5.370	5.371	(0.810)	541728	40.0000	41(A)
	13 2,2-Dichloropropane	77	5.380	5.392	(0.811)	756148	40.0000	42(A)
M	14 1,2-Dichloroethene (Total)	96				1143649	80.0000	83
	15 Bromochloromethane	128	5.624	5.636	(0.848)	200676	40.0000	41(A)
	16 Chloroform	83	5.699	5.710	(0.859)	832826	40.0000	41(A)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5176.D
Report Date: 27-Oct-2000 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.922	5.933	(0.893)	705475	40.0000	43 (A)
	18 1,1-Dichloropropene	75	6.102	6.103	(0.920)	787235	40.0000	43 (A)
	19 Carbon Tetrachloride	117	6.112	6.124	(0.922)	594718	40.0000	43 (A)
	20 Benzene	78	6.324	6.336	(0.954)	2175953	40.0000	41 (A)
	21 1,2-Dichloroethane	62	6.335	6.347	(0.955)	375557	40.0000	40
*	22 Fluorobenzene	96	6.632	6.644	(1.000)	276292	5.00000	
	23 Trichloroethene	95	7.046	7.058	(1.062)	579801	40.0000	42 (A)
	24 1,2-Dichloropropane	63	7.300	7.312	(1.101)	540796	40.0000	43 (A)
	25 Dibromomethane	93	7.438	7.450	(1.122)	174230	40.0000	41 (A)
	26 Bromodichloromethane	83	7.619	7.630	(1.149)	486698	40.0000	40
	27 cis-1,3-Dichloropropene	75	8.149	8.161	(1.229)	605992	40.0000	44 (A)
	28 Toluene	92	8.573	8.585	(1.293)	1314486	40.0000	43 (A)
	29 trans-1,3-Dichloropropene	75	8.828	8.840	(1.331)	403688	40.0000	46 (A)
	30 1,1,2-Trichloroethane	83	9.061	9.073	(1.366)	198137	40.0000	43 (A)
	31 Tetrachloroethene	166	9.274	9.275	(1.398)	728848	40.0000	43 (A)
	32 1,3-Dichloropropane	76	9.274	9.285	(1.398)	377574	40.0000	44 (A)
	33 Dibromochloromethane	129	9.570	9.582	(1.443)	303943	40.0000	44 (A)
	34 1,2-Dibromoethane	107	9.730	9.731	(1.467)	225758	40.0000	46 (A)
	35 Chlorobenzene	112	10.366	10.378	(1.563)	1270602	40.0000	43 (A)
	36 1,1,1,2-Tetrachloroethane	131	10.472	10.484	(1.579)	413077	40.0000	43 (A)
	37 Ethylbenzene	91	10.515	10.516	(1.585)	2418934	40.0000	44 (A)
	38 m,p-Xylene	106	10.663	10.664	(1.608)	1811693	80.0000	85 (A)
	39 o-Xylene	106	11.162	11.173	(1.683)	856634	40.0000	44 (A)
	40 Styrene	104	11.183	11.184	(1.686)	1330023	40.0000	46 (A)
	42 Bromoform	173	11.406	11.417	(1.720)	200601	40.0000	47 (A)
	43 Isopropylbenzene	105	11.628	11.629	(1.753)	2466528	40.0000	46 (A)
M	41 Xylene (Total)	106				2668328	120.000	130
$	44 Bromofluorobenzene	95	11.809	11.820	(1.781)	554600	40.0000	44 (A)
	45 1,1,2,2-Tetrachloroethane	83	11.978	11.980	(0.908)	248352	40.0000	42 (A)
	46 Bromobenzene	156	12.000	12.001	(0.910)	544411	40.0000	42 (A)
	47 1,2,3-Trichloropropane	75	12.031	12.033	(0.912)	206071	40.0000	44 (A)
	48 n-Propylbenzene	91	12.127	12.128	(0.920)	3061913	40.0000	43 (A)
	49 2-Chlorotoluene	91	12.233	12.234	(0.928)	1633745	40.0000	41 (A)
	50 1,3,5-Trimethylbenzene	105	12.339	12.340	(0.936)	1976213	40.0000	42 (A)
	51 4-Chlorotoluene	91	12.360	12.361	(0.937)	1767032	40.0000	41 (A)
	52 tert-Butylbenzene	119	12.732	12.733	(0.965)	1764414	40.0000	43 (A)
	53 1,2,4-Trimethylbenzene	105	12.785	12.786	(0.969)	1998164	40.0000	44 (A)
	54 sec-Butylbenzene	105	12.986	12.987	(0.985)	2862558	40.0000	44 (A)
	55 1,3-Dichlorobenzene	146	13.113	13.125	(0.994)	1159925	40.0000	41 (A)
	56 4-Isopropyltoluene	119	13.156	13.157	(0.998)	2287135	40.0000	44 (A)
*	57 1,4-Dichlorobenzene-d4	152	13.188	13.199	(1.000)	102085	5.00000	
	58 1,4-Dichlorobenzene	146	13.220	13.221	(1.002)	1104578	40.0000	40 (A)
$	59 1,2-Dichlorobenzene-d4	152	13.623	13.634	(1.033)	562168	40.0000	39
	60 n-Butylbenzene	91	13.623	13.634	(1.033)	2222755	40.0000	43 (A)
	61 1,2-Dichlorobenzene	146	13.644	13.656	(1.035)	871039	40.0000	41 (A)
	62 1,2-Dibromo-3-chloropropane	75	14.514	14.515	(1.101)	27993	40.0000	40
	63 1,2,4-Trichlorobenzene	180	15.426	15.438	(1.170)	706285	40.0000	44 (A)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5176.D
Report Date: 27-Oct-2000 14:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.617	15.618	(1.184)	579463	40.0000	39
65 Naphthalene	128	15.691	15.692	(1.190)	647353	40.0000	44(A)
66 1,2,3-Trichlorobenzene	180	15.956	15.957	(1.210)	504495	40.0000	42(A)

QC Flag Legend

10/31/00

A - Target compound detected but, quantitated amount exceeded maximum amount.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date: 10/27/00 Time: 1558

Lab File ID: V2D5181 Init. Calib. Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Init. Calib. Times: 0938 1438

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

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.204	0.241	0.05	18.1	30.0
Chloromethane	0.519	0.565	0.05	8.9	30.0
Vinyl Chloride	0.410	0.453	0.05	10.5	30.0
Bromomethane	0.259	0.280	0.05	8.1	30.0
Chloroethane	0.240	0.254	0.05	5.8	30.0
Trichlorofluoromethane	0.176	0.189	0.05	7.4	30.0
1,1-Dichloroethene	0.224	0.240	0.05	7.1	30.0
Methylene Chloride	0.253	0.242	0.05	4.3	30.0
trans-1,2-Dichloroethene	0.286	0.309	0.05	8.0	30.0
Methyl tert-butyl ether	0.273	0.298	0.05	9.2	30.0
1,1-Dichloroethane	0.536	0.579	0.05	8.0	30.0
cis-1,2-Dichloroethene	0.252	0.277	0.05	9.9	30.0
2,2-Dichloropropane	0.343	0.384	0.05	12.0	30.0
1,2-Dichloroethane	0.168	0.188	0.05	11.9	30.0
Bromochloromethane	0.090	0.098	0.05	8.9	30.0
Chloroform	0.384	0.422	0.05	9.9	30.0
Carbon Tetrachloride	0.269	0.304	0.05	13.0	30.0
1,1,1-Trichloroethane	0.316	0.352	0.05	11.4	30.0
1,1-Dichloropropene	0.359	0.395	0.05	10.0	30.0
Trichloroethene	0.265	0.286	0.05	7.9	30.0
1,2-Dichloropropane	0.244	0.264	0.05	8.2	30.0
Benzene	1.015	1.091	0.05	7.5	30.0
Dibromomethane	0.077	0.083	0.05	7.8	30.0
Bromodichloromethane	0.210	0.238	0.05	13.3	30.0
cis-1,3-Dichloropropene	0.261	0.287	0.05	10.0	30.0
Toluene	0.596	0.648	0.05	8.7	30.0
trans-1,3-Dichloropropene	0.166	0.186	0.05	12.0	30.0
1,1,2-Trichloroethane	0.087	0.093	0.05	6.9	30.0
Tetrachloroethene	0.324	0.363	0.05	12.0	30.0
1,3-Dichloropropane	0.165	0.184	0.05	11.5	30.0
Dibromochloromethane	0.129	0.144	0.05	11.6	30.0
1,2-Dibromoethane	0.094	0.104	0.05	10.6	30.0
Chlorobenzene	0.562	0.622	0.05	10.7	30.0
1,1,1,2-Tetrachloroethane	0.179	0.203	0.05	13.4	30.0
Ethylbenzene	1.074	1.184	0.05	10.2	30.0
m,p-Xylene	0.414	0.465	0.05	12.3	30.0
o-Xylene	0.384	0.425	0.05	10.7	30.0

U.C.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date: 10/27/00 Time: 1558

Lab File ID: V2D5181 Init. Calib. Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Init. Calib. Times: 0938 1438

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

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Styrene	0.572	0.651	0.05	13.8	30.0
Bromoform	0.079	0.091	0.05	15.2	30.0
Isopropylbenzene	1.066	1.213	0.05	13.8	30.0
1,1,2,2-Tetrachloroethane	0.312	0.338	0.05	8.3	30.0
Bromobenzene	0.677	0.725	0.05	7.1	30.0
1,2,3-Trichloropropane	0.252	0.276	0.05	9.5	30.0
n-Propylbenzene	3.930	4.237	0.05	7.8	30.0
2-Chlorotoluene	2.111	2.226	0.05	5.4	30.0
1,3,5-Trimethylbenzene	2.555	2.767	0.05	8.3	30.0
4-Chlorotoluene	2.294	2.445	0.05	6.6	30.0
tert-Butylbenzene	2.231	2.426	0.05	8.7	30.0
1,2,4-Trimethylbenzene	2.506	2.734	0.05	9.1	30.0
sec-Butylbenzene	3.615	3.918	0.05	8.4	30.0
1,3-Dichlorobenzene	1.447	1.544	0.05	6.7	30.0
4-Isopropyltoluene	2.878	3.156	0.05	9.6	30.0
1,4-Dichlorobenzene	1.398	1.496	0.05	7.0	30.0
n-Butylbenzene	2.891	3.150	0.05	9.0	30.0
1,2-Dichlorobenzene	1.106	1.201	0.05	8.6	30.0
1,2-Dibromo-3-chloropropane	0.039	0.036	0.01	7.7	30.0
1,2,4-Trichlorobenzene	0.848	0.946	0.05	11.6	30.0
Hexachlorobutadiene	0.755	0.806	0.05	6.8	30.0
Naphthalene	0.768	0.836	0.05	8.8	30.0
1,2,3-Trichlorobenzene	0.624	0.684	0.05	9.6	30.0
Bromofluorobenzene	0.237	0.269	0.05	13.5	30.0
1,2-Dichlorobenzene-d4	0.745	0.804	0.05	7.9	30.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date: 10/30/00 Time: 0815

Lab File ID: V2D5241 Init. Calib. Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Init. Calib. Times: 0938 1438

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

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.204	0.198	0.05	2.9	30.0
Chloromethane	0.519	0.544	0.05	4.8	30.0
Vinyl Chloride	0.410	0.416	0.05	1.5	30.0
Bromomethane	0.259	0.270	0.05	4.2	30.0
Chloroethane	0.240	0.260	0.05	8.3	30.0
Trichlorofluoromethane	0.176	0.150	0.05	14.8	30.0
1,1-Dichloroethene	0.224	0.235	0.05	4.9	30.0
Methylene Chloride	0.253	0.225	0.05	11.1	30.0
trans-1,2-Dichloroethene	0.286	0.297	0.05	3.8	30.0
Methyl tert-butyl ether	0.273	0.245	0.05	10.2	30.0
1,1-Dichloroethane	0.536	0.548	0.05	2.2	30.0
cis-1,2-Dichloroethene	0.252	0.249	0.05	1.2	30.0
2,2-Dichloropropane	0.343	0.350	0.05	2.0	30.0
1,2-Dichloroethane	0.168	0.153	0.05	8.9	30.0
Bromochloromethane	0.090	0.082	0.05	8.9	30.0
Chloroform	0.384	0.372	0.05	3.1	30.0
Carbon Tetrachloride	0.269	0.274	0.05	1.8	30.0
1,1,1-Trichloroethane	0.316	0.311	0.05	1.6	30.0
1,1-Dichloropropene	0.359	0.370	0.05	3.1	30.0
Trichloroethene	0.265	0.269	0.05	1.5	30.0
1,2-Dichloropropane	0.244	0.250	0.05	2.4	30.0
Benzene	1.015	1.027	0.05	1.2	30.0
Dibromomethane	0.077	0.072	0.05	6.5	30.0
Bromodichloromethane	0.210	0.199	0.05	5.2	30.0
cis-1,3-Dichloropropene	0.261	0.255	0.05	2.3	30.0
Toluene	0.596	0.602	0.05	1.0	30.0
trans-1,3-Dichloropropene	0.166	0.158	0.05	4.8	30.0
1,1,2-Trichloroethane	0.087	0.079	0.05	9.2	30.0
Tetrachloroethene	0.324	0.325	0.05	0.3	30.0
1,3-Dichloropropane	0.165	0.157	0.05	4.8	30.0
Dibromochloromethane	0.129	0.117	0.05	9.3	30.0
1,2-Dibromoethane	0.094	0.087	0.05	7.4	30.0
Chlorobenzene	0.562	0.548	0.05	2.5	30.0
1,1,1,2-Tetrachloroethane	0.179	0.173	0.05	3.4	30.0
Ethylbenzene	1.074	1.078	0.05	0.4	30.0
m,p-Xylene	0.414	0.423	0.05	2.2	30.0
o-Xylene	0.384	0.383	0.05	0.3	30.0

C.C.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Instrument ID: V2 Calibration Date: 10/30/00 Time: 0815

Lab File ID: V2D5241 Init. Calib. Date(s): 10/27/00 10/27/00

Heated Purge: (Y/N) N Init. Calib. Times: 0938 1438

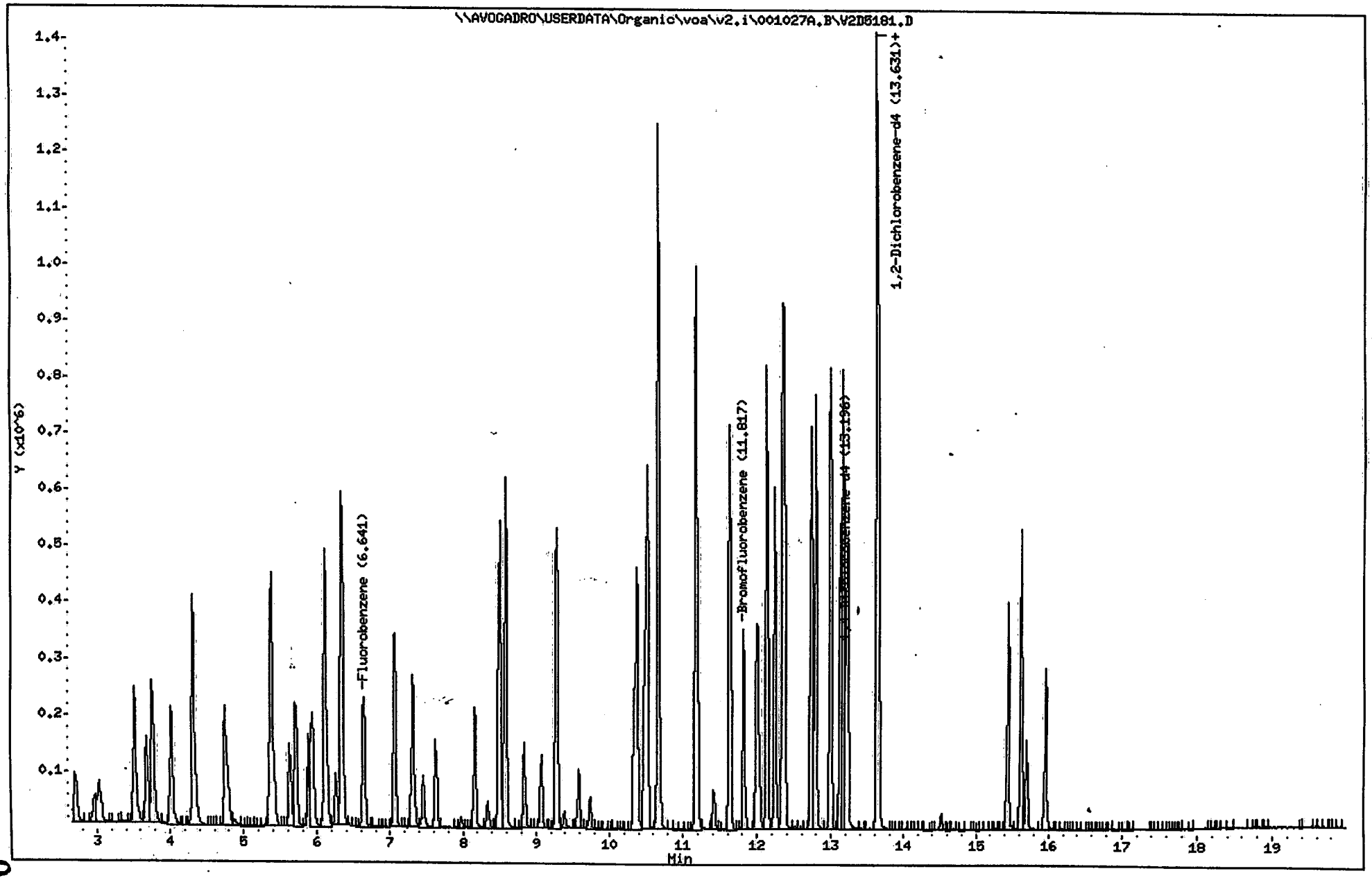
GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Styrene	0.572	0.560	0.05	2.1	30.0
Bromoform	0.079	0.072	0.05	8.9	30.0
Isopropylbenzene	1.066	1.102	0.05	3.4	30.0
1,1,2,2-Tetrachloroethane	0.312	0.289	0.05	7.4	30.0
Bromobenzene	0.677	0.676	0.05	0.1	30.0
1,2,3-Trichloropropane	0.252	0.244	0.05	3.2	30.0
n-Propylbenzene	3.930	4.256	0.05	8.3	30.0
2-Chlorotoluene	2.111	2.180	0.05	3.3	30.0
1,3,5-Trimethylbenzene	2.555	2.707	0.05	5.9	30.0
4-Chlorotoluene	2.294	2.324	0.05	1.3	30.0
tert-Butylbenzene	2.231	2.363	0.05	5.9	30.0
1,2,4-Trimethylbenzene	2.506	2.636	0.05	5.2	30.0
sec-Butylbenzene	3.615	3.892	0.05	7.7	30.0
1,3-Dichlorobenzene	1.447	1.412	0.05	2.4	30.0
4-Isopropyltoluene	2.878	3.085	0.05	7.2	30.0
1,4-Dichlorobenzene	1.398	1.343	0.05	3.9	30.0
n-Butylbenzene	2.891	3.063	0.05	5.9	30.0
1,2-Dichlorobenzene	1.106	1.079	0.05	2.4	30.0
1,2-Dibromo-3-chloropropane	0.039	0.030	0.01	23.1	30.0
1,2,4-Trichlorobenzene	0.848	0.794	0.05	6.4	30.0
Hexachlorobutadiene	0.755	0.732	0.05	3.0	30.0
Naphthalene	0.768	0.690	0.05	10.2	30.0
1,2,3-Trichlorobenzene	0.624	0.563	0.05	9.8	30.0
Bromofluorobenzene	0.237	0.222	0.05	6.3	30.0
1,2-Dichlorobenzene-d4	0.745	0.726	0.05	2.6	30.0

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5181.D
Date : 27-OCT-2000 15:58
Client ID: VSTD0102Z
Sample Info: 524,V2S1027F,VSTD0102Z
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



085

Data File: V2D5181.D
Report Date: 27-Oct-2000 17:07

Mitkem Corpoaration

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5181.D
Lab Smp Id: V2S1027F Client Smp ID: VSTD0102Z
Inj Date : 27-OCT-2000 15:58
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1027F,VSTD0102Z
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 27-Oct-2000 17:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 1 Continuing Calibration Sample
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)
	1 Dichlorodifluoromethane	85	1.941	1.941	(0.292)	119524	10.0000	12
	2 Chloromethane	50	2.111	2.111	(0.318)	280025	10.0000	11
	3 Vinyl Chloride	62	2.260	2.260	(0.340)	224559	10.0000	11
	4 Bromomethane	94	2.610	2.610	(0.393)	138920	10.0000	11
	5 Chloroethane	64	2.695	2.695	(0.406)	125618	10.0000	10
	6 Trichlorofluoromethane	101	3.034	3.034	(0.457)	93430	10.0000	11
	7 1,1-Dichloroethene	96	3.522	3.522	(0.530)	119077	10.0000	11
	8 Methylene Chloride	84	4.021	4.021	(0.605)	119836	10.0000	10
	9 trans-1,2-Dichloroethene	96	4.317	4.317	(0.650)	153222	10.0000	11
	10 Methyl tert-butyl ether	73	4.328	4.328	(0.652)	147895	10.0000	11
	11 1,1-Dichloroethane	63	4.753	4.753	(0.716)	286718	10.0000	11
	12 cis-1,2-Dichloroethene	96	5.378	5.378	(0.810)	137085	10.0000	11
	13 2,2-Dichloropropane	77	5.389	5.389	(0.812)	190389	10.0000	11
M	14 1,2-Dichloroethene (Total)	96				290308	20.0000	22
	15 Bromochloromethane	128	5.633	5.633	(0.848)	48701	10.0000	11
	16 Chloroform	83	5.707	5.707	(0.859)	208872	10.0000	11

Data File: V2D5181.D
Report Date: 27-Oct-2000 17:07

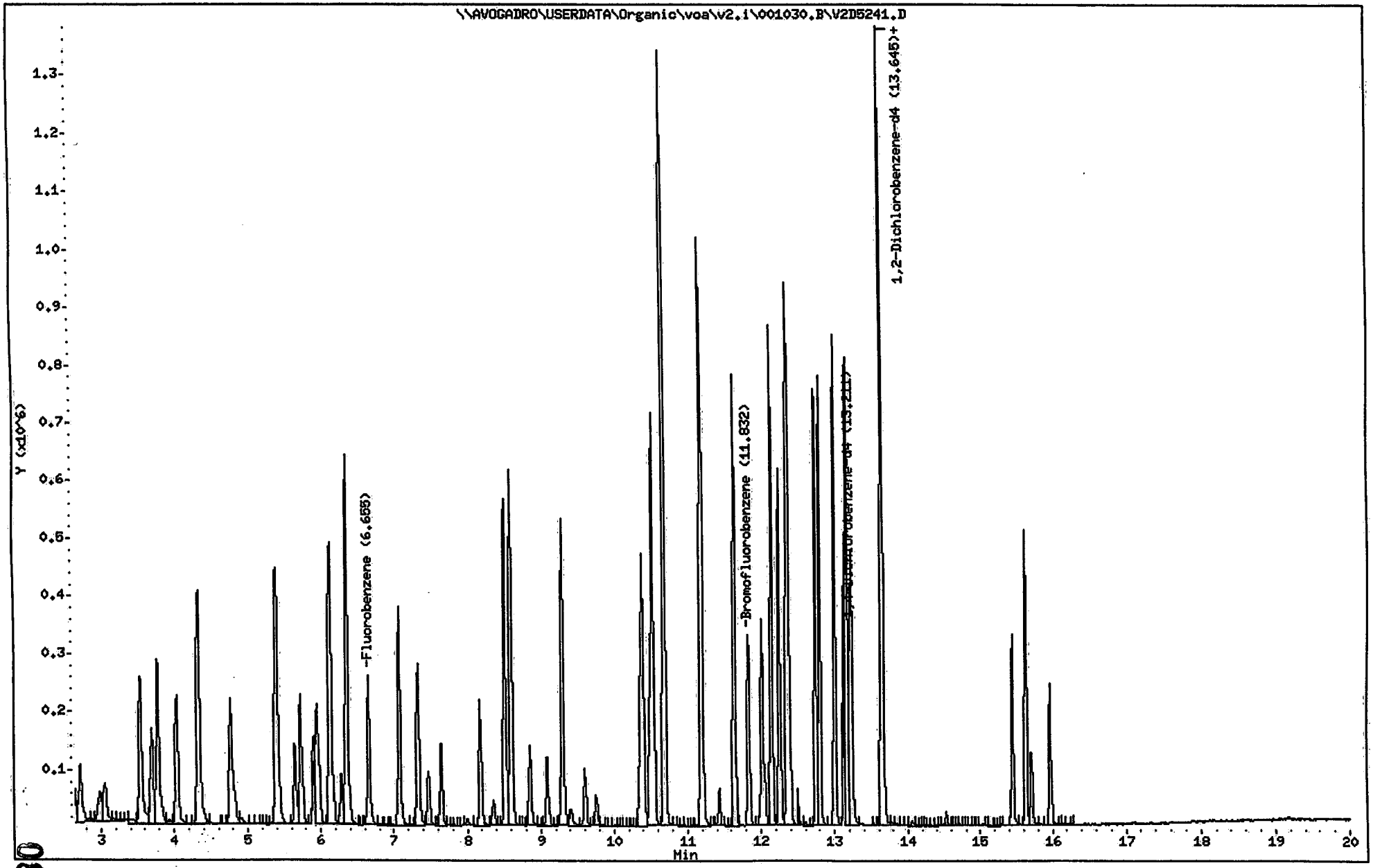
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.941	5.941	(0.895)	174263	10.0000	11
	18 1,1-Dichloropropene	75	6.110	6.110	(0.920)	195858	10.0000	11
	19 Carbon Tetrachloride	117	6.121	6.121	(0.922)	150413	10.0000	11
	20 Benzene	78	6.333	6.333	(0.954)	540457	10.0000	11
	21 1,2-Dichloroethane	62	6.344	6.344	(0.955)	93071	10.0000	11
*	22 Fluorobenzene	96	6.641	6.641	(1.000)	247655	5.00000	
	23 Trichloroethene	95	7.054	7.054	(1.062)	141505	10.0000	11
	24 1,2-Dichloropropane	63	7.309	7.309	(1.101)	130931	10.0000	11
	25 Dibromomethane	93	7.447	7.447	(1.121)	41100	10.0000	11
	26 Bromodichloromethane	83	7.627	7.627	(1.149)	118074	10.0000	11
	27 cis-1,3-Dichloropropene	75	8.158	8.158	(1.228)	142176	10.0000	11
	28 Toluene	92	8.582	8.582	(1.292)	321138	10.0000	11
	29 trans-1,3-Dichloropropene	75	8.836	8.836	(1.331)	92197	10.0000	11
	30 1,1,2-Trichloroethane	83	9.070	9.070	(1.366)	46118	10.0000	11
	31 Tetrachloroethene	166	9.282	9.282	(1.398)	179789	10.0000	11
	32 1,3-Dichloropropane	76	9.282	9.282	(1.398)	91258	10.0000	11
	33 Dibromochloromethane	129	9.579	9.579	(1.442)	71523	10.0000	11
	34 1,2-Dibromoethane	107	9.738	9.738	(1.466)	51670	10.0000	11
	35 Chlorobenzene	112	10.375	10.375	(1.562)	308130	10.0000	11
	36 1,1,1,2-Tetrachloroethane	131	10.481	10.481	(1.578)	100443	10.0000	11
	37 Ethylbenzene	91	10.523	10.523	(1.585)	586358	10.0000	11
	38 m,p-Xylene	106	10.672	10.672	(1.607)	461027	20.0000	22
	39 o-Xylene	106	11.170	11.170	(1.682)	210412	10.0000	11
	40 Styrene	104	11.191	11.191	(1.685)	322568	10.0000	11
	42 Bromoform	173	11.414	11.414	(1.719)	45004	10.0000	11
	43 Isopropylbenzene	105	11.637	11.637	(1.752)	600726	10.0000	11
M	41 Xylene (Total)	106				671440	30.0000	34
$	44 Bromofluorobenzene	95	11.817	11.817	(1.780)	133413	10.0000	11
	45 1,1,2,2-Tetrachloroethane	83	11.987	11.987	(0.908)	59206	10.0000	11
	46 Bromobenzene	156	12.008	12.008	(0.910)	127196	10.0000	11
	47 1,2,3-Trichloropropane	75	12.040	12.040	(0.912)	48379	10.0000	11
	48 n-Propylbenzene	91	12.135	12.135	(0.920)	743054	10.0000	11
	49 2-Chlorotoluene	91	12.241	12.241	(0.928)	390430	10.0000	10
	50 1,3,5-Trimethylbenzene	105	12.348	12.348	(0.936)	485308	10.0000	11
	51 4-Chlorotoluene	91	12.369	12.369	(0.937)	428807	10.0000	11
	52 tert-Butylbenzene	119	12.740	12.740	(0.965)	425563	10.0000	11
	53 1,2,4-Trimethylbenzene	105	12.793	12.793	(0.969)	479606	10.0000	11
	54 sec-Butylbenzene	105	12.995	12.995	(0.985)	687250	10.0000	11
	55 1,3-Dichlorobenzene	146	13.122	13.122	(0.994)	270861	10.0000	11
	56 4-Isopropyltoluene	119	13.164	13.164	(0.998)	553500	10.0000	11
*	57 1,4-Dichlorobenzene-d4	152	13.196	13.196	(1.000)	87694	5.00000	
	58 1,4-Dichlorobenzene	146	13.228	13.228	(1.002)	262455	10.0000	11
$	59 1,2-Dichlorobenzene-d4	152	13.631	13.631	(1.033)	140943	10.0000	11
	60 n-Butylbenzene	91	13.631	13.631	(1.033)	552425	10.0000	11
	61 1,2-Dichlorobenzene	146	13.652	13.652	(1.035)	210677	10.0000	11
	62 1,2-Dibromo-3-chloropropane	75	14.522	14.522	(1.100)	6295	10.0000	9
	63 1,2,4-Trichlorobenzene	180	15.434	15.434	(1.170)	165986	10.0000	11

Data File: V2D5181.D
Report Date: 27-Oct-2000 17:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.615	15.615	(1.183)	141397	10.0000	11
65 Naphthalene	128	15.700	15.700	(1.190)	146705	10.0000	11
66 1,2,3-Trichlorobenzene	180	15.954	15.954	(1.209)	120059	10.0000	11

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5241.D
Date : 30-OCT-2000 08:15
Client ID: VSTD0102B
Sample Info: 524,V2S1030A,VSTD0102B
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5241.D
Report Date: 30-Oct-2000 09:07

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5241.D
Lab Smp Id: V2S1030A Client Smp ID: VSTD0102B
Inj Date : 30-OCT-2000 08:15
Operator : JT Inst ID: v2.i
Smp Info : 524,V2S1030A,VSTD0102B
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\v2524.m
Meth Date : 30-Oct-2000 09:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

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	1.945	1.945	(0.292)	112925	10.0000	10
	2 Chloromethane	50	2.126	2.126	(0.319)	310948	10.0000	10
	3 Vinyl Chloride	62	2.274	2.274	(0.342)	237500	10.0000	10
	4 Bromomethane	94	2.614	2.614	(0.393)	154117	10.0000	10
	5 Chloroethane	64	2.720	2.720	(0.409)	148633	10.0000	11
	6 Trichlorofluoromethane	101	3.049	3.049	(0.458)	85480	10.0000	8
	7 1,1-Dichloroethene	96	3.547	3.547	(0.533)	134146	10.0000	10
	8 Methylene Chloride	84	4.046	4.046	(0.608)	128648	10.0000	9
	9 trans-1,2-Dichloroethene	96	4.332	4.332	(0.651)	169478	10.0000	10
	10 Methyl tert-butyl ether	73	4.343	4.343	(0.653)	139765	10.0000	9
	11 1,1-Dichloroethane	63	4.777	4.777	(0.718)	313251	10.0000	10
	12 cis-1,2-Dichloroethene	96	5.393	5.393	(0.810)	142320	10.0000	10
	13 2,2-Dichloropropane	77	5.414	5.414	(0.814)	200075	10.0000	10
M	14 1,2-Dichloroethene (Total)	96				311799	20.0000	20
	15 Bromochloromethane	128	5.658	5.658	(0.850)	46931	10.0000	9
	16 Chloroform	83	5.732	5.732	(0.861)	212203	10.0000	10

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5241.D
Report Date: 30-Oct-2000 09:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	17 1,1,1-Trichloroethane	97	5.955	5.955	(0.895)	177715	10.0000	10
	18 1,1-Dichloropropene	75	6.125	6.125	(0.920)	211483	10.0000	10
	19 Carbon Tetrachloride	117	6.146	6.146	(0.923)	156578	10.0000	10
	20 Benzene	78	6.358	6.358	(0.955)	586706	10.0000	10
	21 1,2-Dichloroethane	62	6.358	6.358	(0.955)	87334	10.0000	9
*	22 Fluorobenzene	96	6.655	6.655	(1.000)	285528	5.00000	
	23 Trichloroethene	95	7.079	7.079	(1.064)	153677	10.0000	10
	24 1,2-Dichloropropane	63	7.334	7.334	(1.102)	142635	10.0000	10
	25 Dibromomethane	93	7.472	7.472	(1.123)	40991	10.0000	9
	26 Bromodichloromethane	83	7.652	7.652	(1.150)	113602	10.0000	9
	27 cis-1,3-Dichloropropene	75	8.183	8.183	(1.230)	145612	10.0000	10
	28 Toluene	92	8.596	8.596	(1.292)	343630	10.0000	10
	29 trans-1,3-Dichloropropene	75	8.861	8.861	(1.332)	90112	10.0000	9
	30 1,1,2-Trichloroethane	83	9.084	9.084	(1.365)	45097	10.0000	9
	31 Tetrachloroethene	166	9.296	9.296	(1.397)	185374	10.0000	10
	32 1,3-Dichloropropane	76	9.307	9.307	(1.398)	89563	10.0000	10
	33 Dibromochloromethane	129	9.604	9.604	(1.443)	66783	10.0000	9
	34 1,2-Dibromoethane	107	9.752	9.752	(1.465)	49574	10.0000	9
	35 Chlorobenzene	112	10.400	10.400	(1.563)	313104	10.0000	10
	36 1,1,1,2-Tetrachloroethane	131	10.495	10.495	(1.577)	98689	10.0000	10
	37 Ethylbenzene	91	10.537	10.537	(1.583)	615739	10.0000	10
	38 m,p-Xylene	106	10.686	10.686	(1.606)	483419	20.0000	20
	39 o-Xylene	106	11.195	11.195	(1.682)	218500	10.0000	10
	40 Styrene	104	11.206	11.206	(1.684)	319814	10.0000	10
	42 Bromoform	173	11.439	11.439	(1.719)	40983	10.0000	9
	43 Isopropylbenzene	105	11.651	11.651	(1.751)	629046	10.0000	10
M	41 Xylene (Total)	106				701919	30.0000	30
$	44 Bromofluorobenzene	95	11.832	11.832	(1.778)	127074	10.0000	9
	45 1,1,2,2-Tetrachloroethane	83	12.001	12.001	(0.908)	52411	10.0000	9
	46 Bromobenzene	156	12.023	12.023	(0.910)	122679	10.0000	10
	47 1,2,3-Trichloropropane	75	12.054	12.054	(0.912)	44337	10.0000	10
	48 n-Propylbenzene	91	12.150	12.150	(0.920)	772114	10.0000	11
	49 2-Chlorotoluene	91	12.256	12.256	(0.928)	395599	10.0000	10
	50 1,3,5-Trimethylbenzene	105	12.362	12.362	(0.936)	491043	10.0000	10
	51 4-Chlorotoluene	91	12.383	12.383	(0.937)	421686	10.0000	10
	52 tert-Butylbenzene	119	12.754	12.754	(0.965)	428753	10.0000	10
	53 1,2,4-Trimethylbenzene	105	12.807	12.807	(0.969)	478273	10.0000	10
	54 sec-Butylbenzene	105	13.009	13.009	(0.985)	706177	10.0000	11
	55 1,3-Dichlorobenzene	146	13.136	13.136	(0.994)	256266	10.0000	10
	56 4-Isopropyltoluene	119	13.179	13.179	(0.998)	559726	10.0000	11
*	57 1,4-Dichlorobenzene-d4	152	13.211	13.211	(1.000)	90711	5.00000	
	58 1,4-Dichlorobenzene	146	13.242	13.242	(1.002)	243647	10.0000	10
$	59 1,2-Dichlorobenzene-d4	152	13.645	13.645	(1.033)	131720	10.0000	10
	60 n-Butylbenzene	91	13.645	13.645	(1.033)	555668	10.0000	10
	61 1,2-Dichlorobenzene	146	13.667	13.667	(1.035)	195687	10.0000	10
	62 1,2-Dibromo-3-chloropropane	75	14.537	14.537	(1.100)	5402	10.0000	8
	63 1,2,4-Trichlorobenzene	180	15.449	15.449	(1.169)	144041	10.0000	9

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5241.D
Report Date: 30-Oct-2000 09:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
64 Hexachlorobutadiene	225	15.629	15.629	(1.183)	132876	10.0000	10
65 Naphthalene	128	15.714	15.714	(1.189)	125092	10.0000	9
66 1,2,3-Trichlorobenzene	180	15.969	15.969	(1.209)	102092	10.0000	9

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5170.D

Date : 27-OCT-2000 09:21

Client ID: BFB2Y UP 10/31/00

Instrument: v2.i

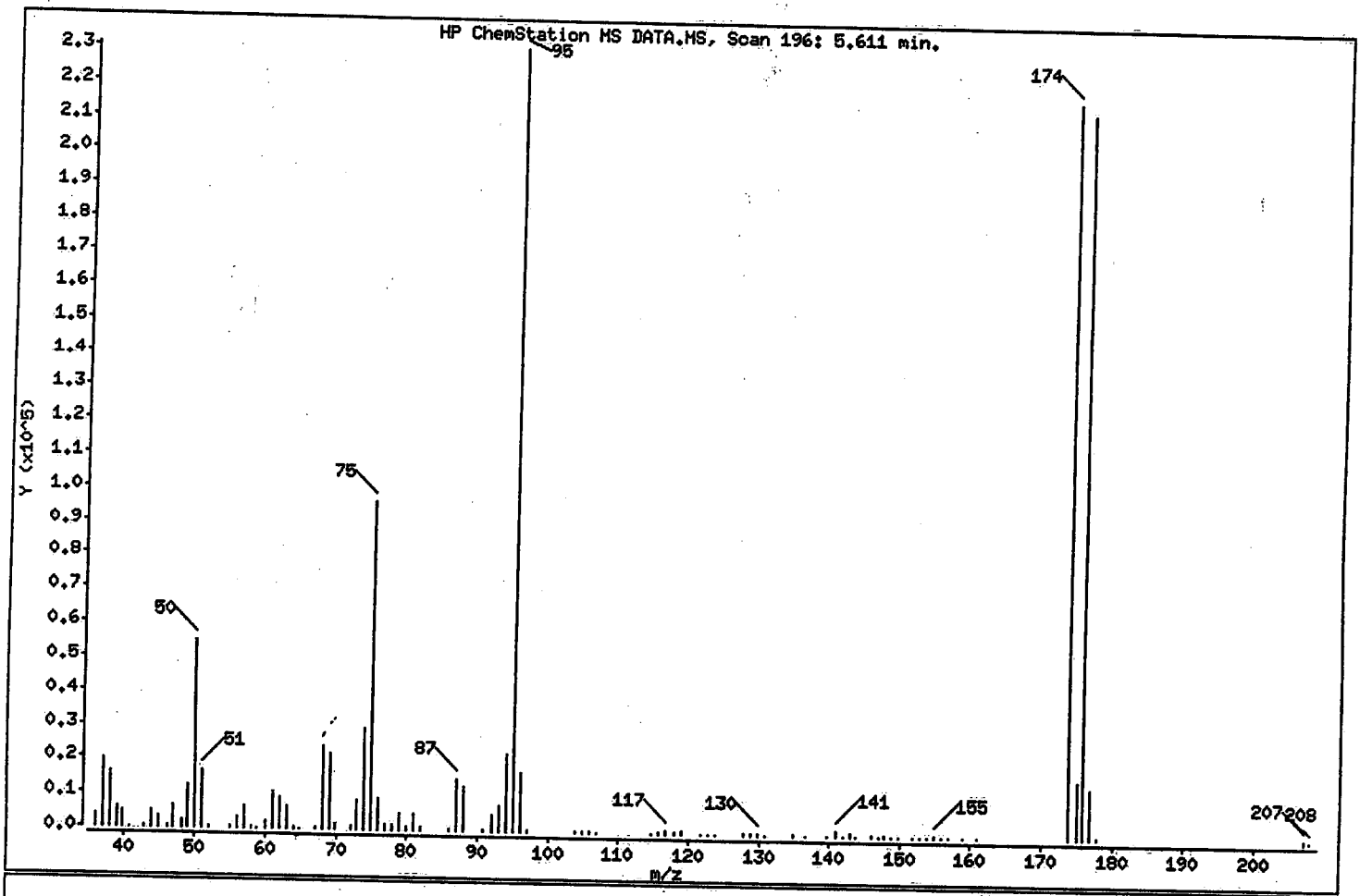
Sample Info: 524,V2T1027A,BFB2Y

Operator: JT

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	23.78
75	30.00 - 80.00% of mass 95	41.61
96	5.00 - 9.00% of mass 95	7.37
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	94.31
175	5.00 - 9.00% of mass 174	7.14 (7.57)
176	95.00 - 101.00% of mass 174	92.95 (98.56)
177	5.00 - 9.00% of mass 176	6.12 (6.58)

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5170.D

Date : 27-OCT-2000 09:21

Client ID: BFB 2Y cp 10/31/00

Instrument: v2.i

Sample Info: 524,V2T1027A,BFB2Y

Operator: JT

Column phase: DB-624

Column diameter: 0.25

Data File: V2D5170.D

Spectrum: HP ChemStation MS DATA.MS, Scan 196: 5.611 min.

Location of Maximum: 95.00

Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3775	62.95	6190	94.00	22240	142.00	172
37.00	19848	63.90	670	95.00	230464	142.90	980
37.95	15750	64.90	137	96.00	16984	143.85	106
38.95	5665	66.95	702	97.05	549	145.90	408
39.85	4672	67.95	23800	103.95	591	147.00	155
40.90	202	68.95	21720	104.90	406	147.80	524
42.90	304	69.90	1505	105.90	751	148.85	156
43.95	4936	72.00	1115	106.90	255	149.75	167
44.95	3219	72.95	8646	114.85	149	151.90	236
46.15	319	73.95	29168	115.85	609	152.90	216
46.90	6178	74.95	95904	116.80	1028	153.90	184
48.00	1988	76.00	8852	117.90	550	154.85	513
49.00	12321	76.90	1733	118.90	866	155.75	135
49.95	54800	77.90	1478	121.85	100	156.95	255
50.95	16267	78.85	4879	122.90	130	158.80	189
51.95	681	79.95	1207	123.90	147	160.85	175
55.00	649	80.85	4641	127.85	635	173.85	217344
55.95	3331	81.90	901	128.80	315	174.95	16456
56.95	6512	85.95	531	129.80	665	175.90	214208
57.95	281	86.95	14817	130.90	206	176.90	14100
58.70	189	87.90	12765	134.90	370	177.90	571
60.00	2210	90.85	542	136.80	243	207.00	620
60.95	10855	91.95	4703	139.75	126	207.85	125
61.95	9175	92.95	7528	140.90	1356		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027.B\V2D5170.D

Date : 27-OCT-2000 09:21

Client ID: BFB2Y cps 10/31/00

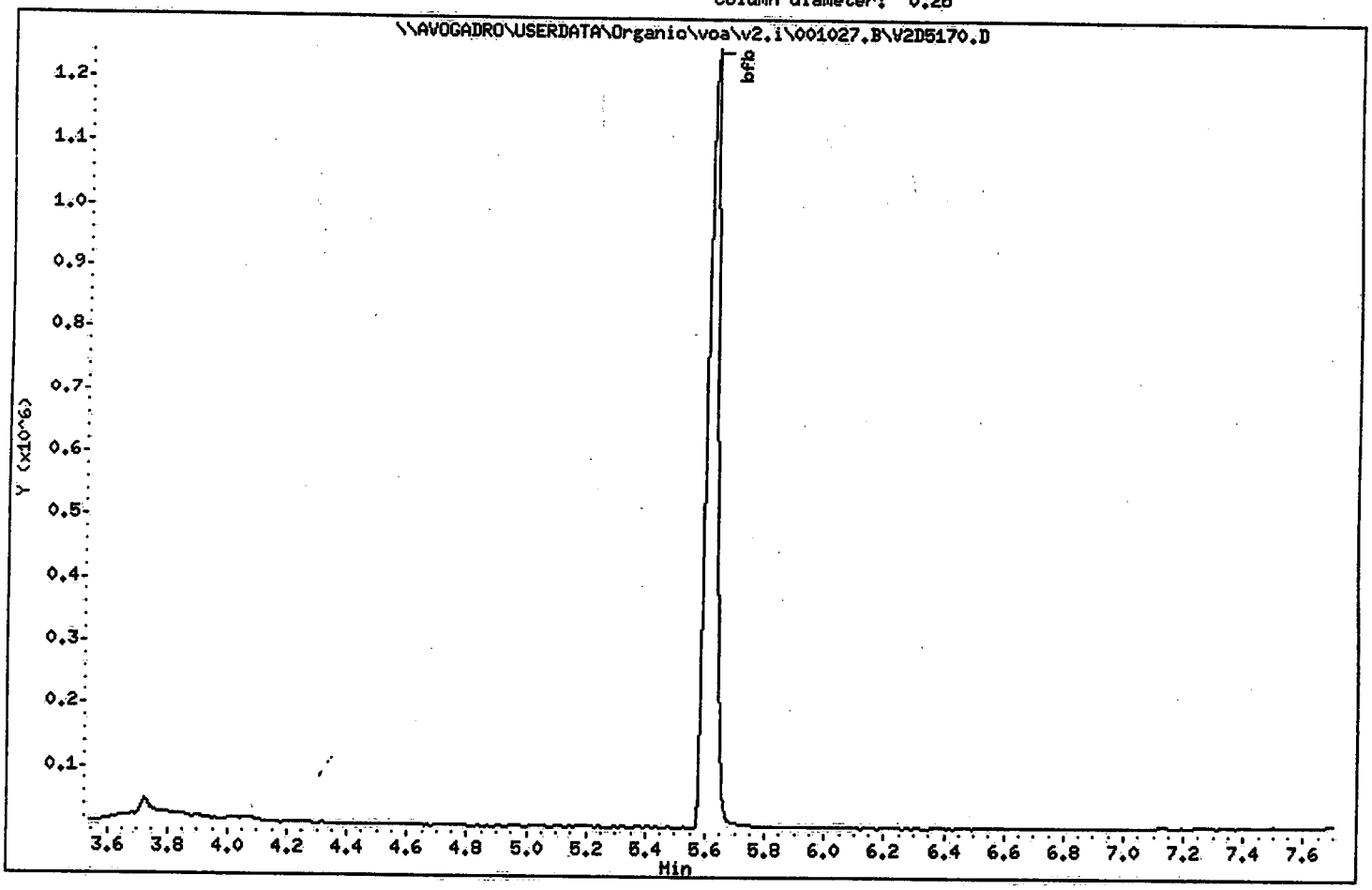
Instrument: v2.i

Sample Info: 524,V2T1027A,BFB2Y

Operator: JT

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\woa\v2.i\001027A.B\V2D5180.D

Date : 27-OCT-2000 15:40

Client ID: BFB2Z JB 10/31/00

Instrument: v2.i

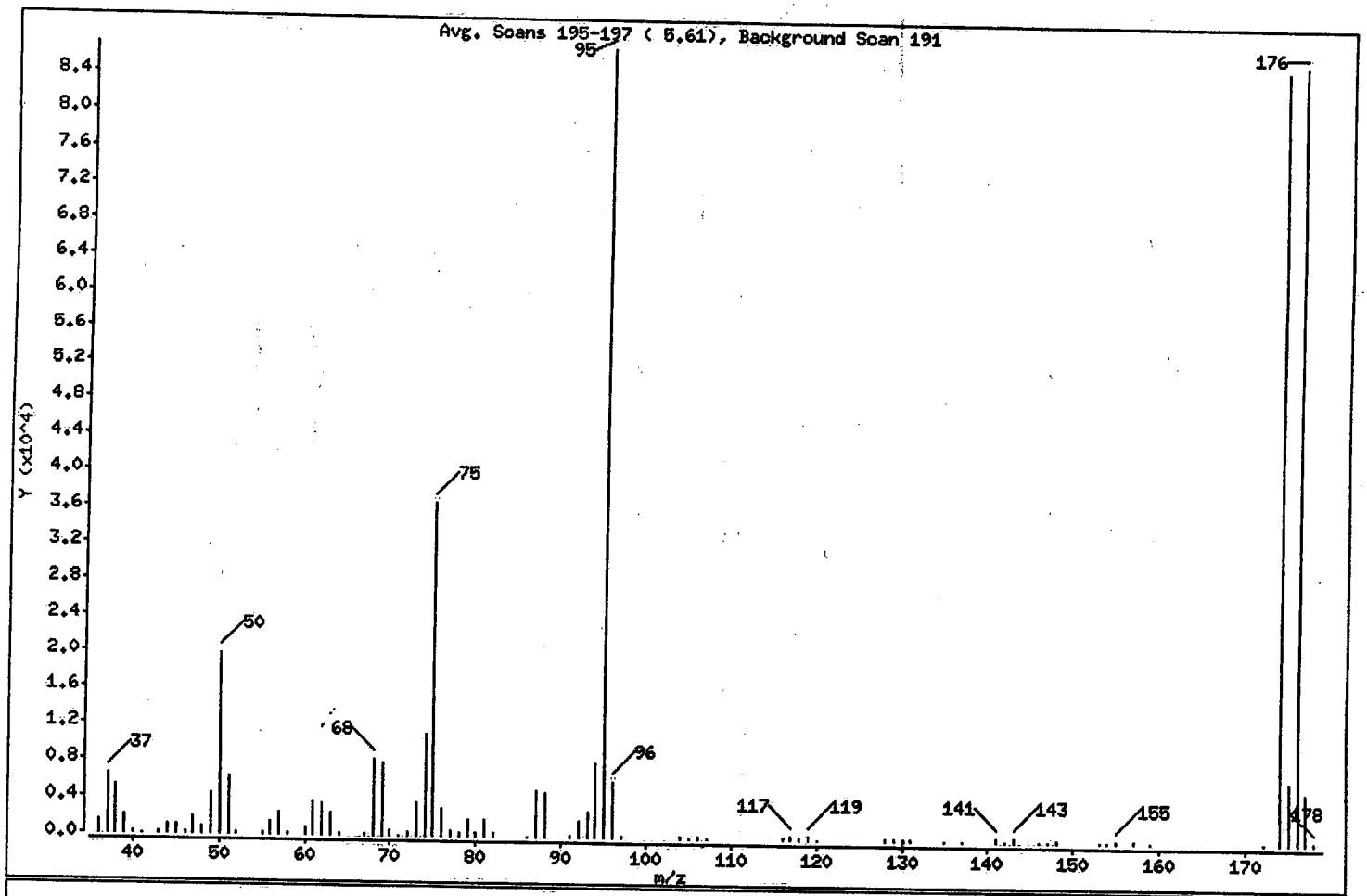
Sample Info: 524,V2T1027B,BFB2Z

Operator: JT

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	22.79
75	30.00 - 80.00% of mass 95	42.11
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	98.27
175	5.00 - 9.00% of mass 174	7.59 (7.72)
176	95.00 - 101.00% of mass 174	98.93 (100.67)
177	5.00 - 9.00% of mass 176	6.23 (6.30)

JB 10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5180.D

Date : 27-OCT-2000 15:40

Client ID: BFB 2 Z cm 10/31/00

Instrument: v2.i

Sample Info: 524,V2T1027B,BFB2Z

Operator: JT

Column phase: DB-624

Column diameter: 0.25

Data File: V2D5180.D

Spectrum: Avg. Scans 195-197 (5.61), Background Scan 191

Location of Maximum: 95.00

Number of points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1388	61.00	3567	87.00	4916	131.00	132
37.00	6493	62.00	3433	88.00	4865	135.00	61
38.00	5187	63.00	2438	91.00	296	137.00	34
39.00	2082	64.00	242	92.00	1781	141.00	411
40.00	165	67.00	246	93.00	2705	142.00	40
41.00	50	68.00	8152	94.00	8087	143.00	445
43.00	124	69.00	7855	95.00	87024	146.00	50
44.00	918	70.00	643	96.00	5964	147.00	39
45.00	989	71.00	56	97.00	184	148.00	219
46.00	160	72.00	468	104.00	297	153.00	34
47.00	1751	73.00	3549	105.00	86	154.00	35
48.00	724	74.00	10978	106.00	236	155.00	211
49.00	4341	75.00	36640	107.00	40	157.00	168
50.00	19824	76.00	3025	116.00	252	159.00	45
51.00	6259	77.00	563	117.00	403	172.00	94
52.00	265	78.00	424	118.00	156	174.00	85520
55.00	247	79.00	1850	119.00	320	175.00	6606
56.00	1336	80.00	492	120.00	44	176.00	86088
57.00	2332	81.00	1739	128.00	279	177.00	5423
58.00	131	82.00	347	129.00	117	178.00	143
60.00	794	86.00	96	130.00	194		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5180.D

Date : 27-OCT-2000 15:40

Client ID: BFB2Z yp 10/31/00

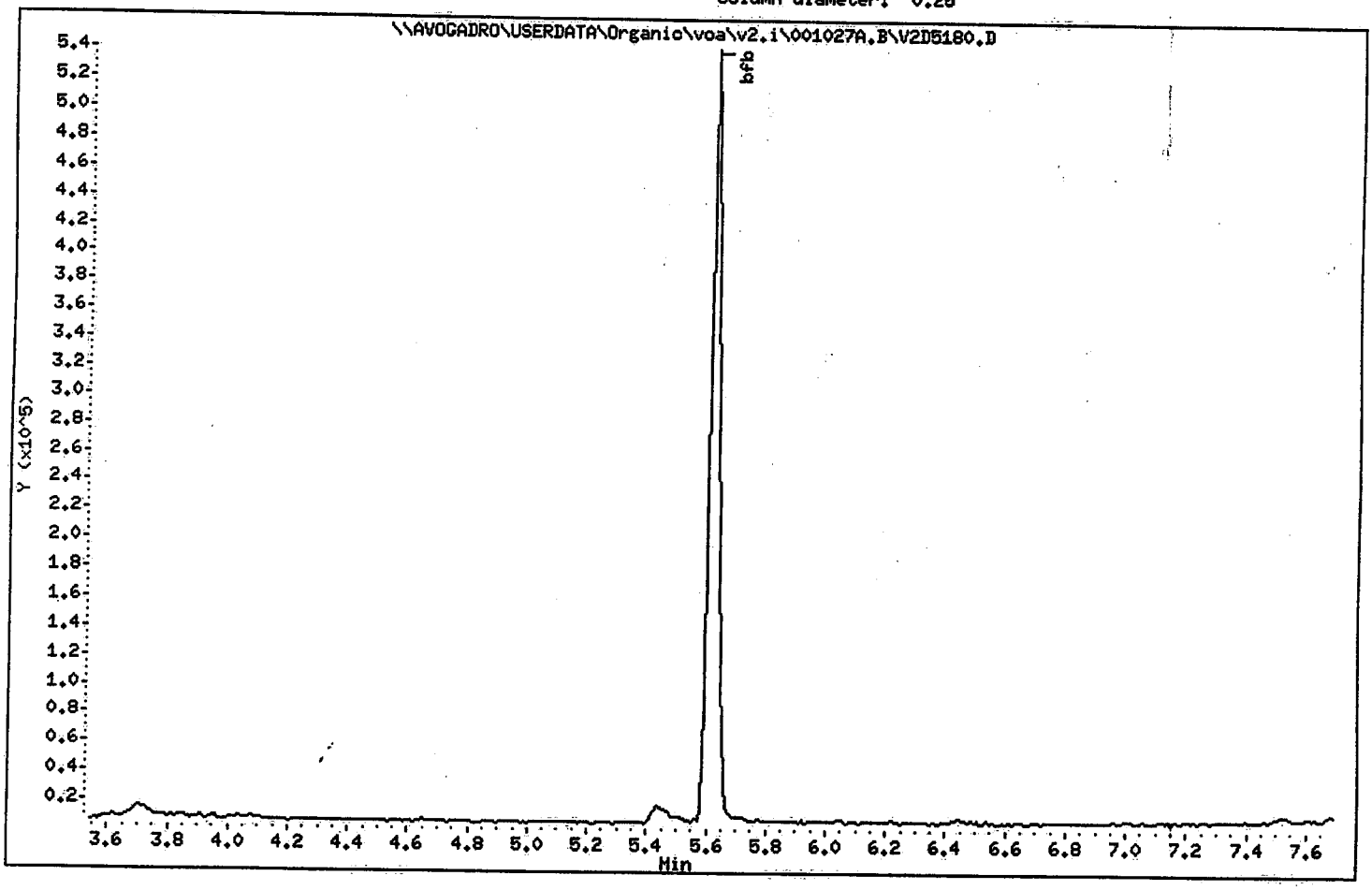
Instrument: v2.i

Sample Info: 524,V2T1027B,BFB2Z

Operator: JT

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5240.D

Date : 30-OCT-2000 08:00

Client ID: BFB2B GMS 10/31/00

Sample Info: 524,V2T1030A,BFB2B

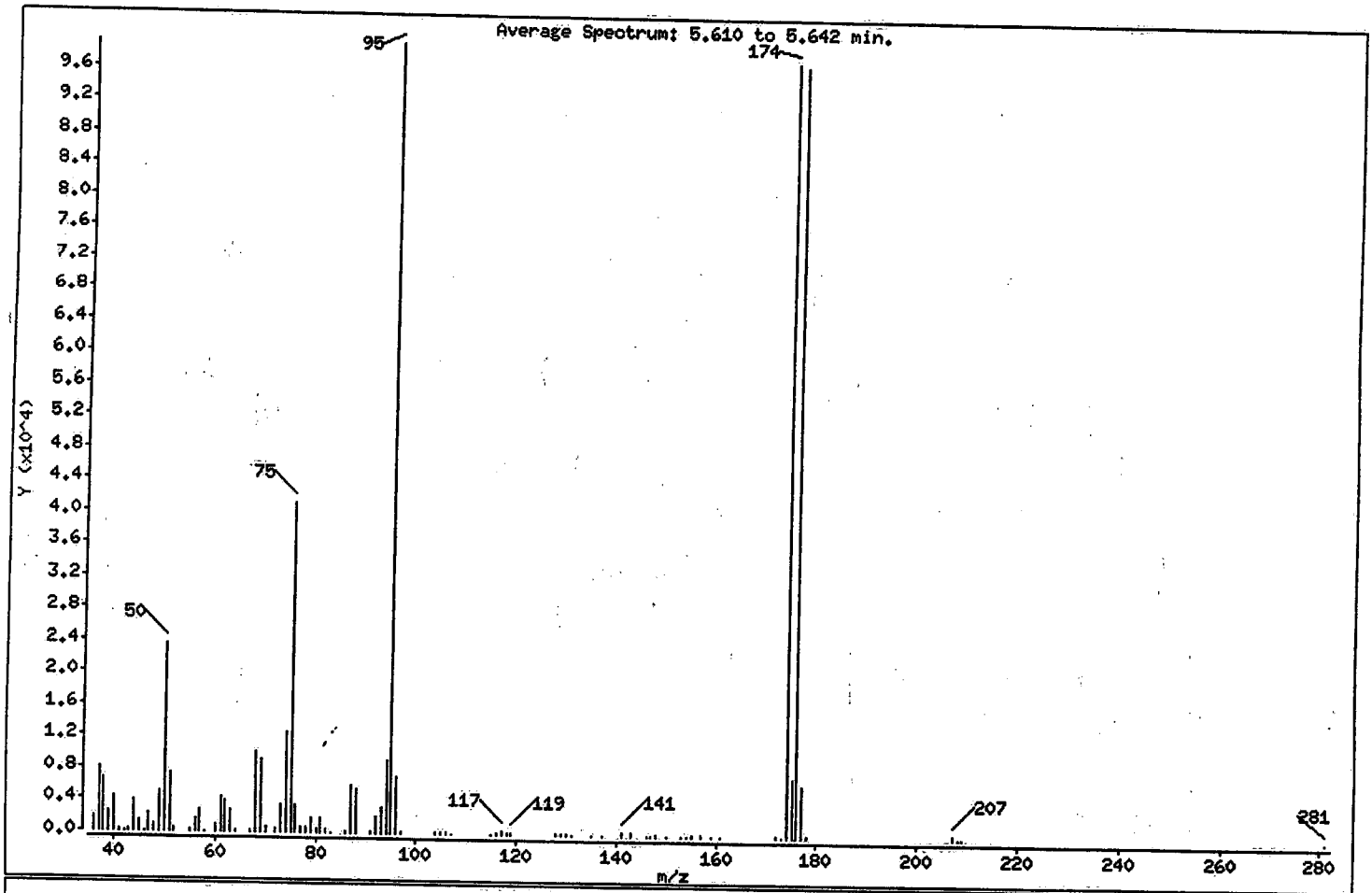
Instrument: v2.i

Operator: JT

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	23.72
75	30.00 - 80.00% of mass 95	41.47
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.09 (0.09)
174	50.00 - 100.00% of mass 95	98.26
175	5.00 - 9.00% of mass 174	7.29 (7.42)
176	95.00 - 101.00% of mass 174	97.60 (99.32)
177	5.00 - 9.00% of mass 176	6.47 (6.63)

GMS 10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5240.D

Date : 30-OCT-2000 08:00

Client ID: BFB2B CM 0811?

Instrument: v2.i

Sample Info: 524,V2T1030A,BFB2B

Operator: JT

Column phase: DB-624

Column diameter: 0.25

Data File: V2D5240.D

Spectrum: Average Spectrum: 5.610 to 5.642 min.

Location of Maximum: 95.00

Number of points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1732	62.00	3923	92.00	2048	146.00	64
37.00	8008	63.00	2826	93.00	3110	147.00	32
38.00	6520	64.00	319	94.00	9221	148.00	175
39.00	2534	67.00	289	95.00	99088	150.00	58
40.00	4301	68.00	10047	96.00	7072	153.00	27
41.00	123	69.00	9086	97.00	203	154.00	70
42.00	35	70.00	782	104.00	298	155.00	232
43.00	160	72.00	429	105.00	154	157.00	127
44.00	3797	73.00	3492	106.00	340	159.00	25
45.00	1418	74.00	12630	107.00	52	161.00	58
46.00	95	75.00	41088	115.00	91	172.00	124
47.00	2393	76.00	3491	116.00	235	173.00	85
48.00	850	77.00	786	117.00	523	174.00	97368
49.00	5061	78.00	614	118.00	239	175.00	7225
50.00	23496	79.00	1919	119.00	322	176.00	96712
51.00	7360	80.00	497	128.00	244	177.00	6410
52.00	449	81.00	1917	129.00	150	178.00	191
55.00	280	82.00	387	130.00	239	207.00	453
56.00	1535	83.00	66	131.00	104	208.00	71
57.00	2738	86.00	150	135.00	107	209.00	29
58.00	108	87.00	5968	137.00	62	281.00	61
60.00	940	88.00	5498	141.00	560		
61.00	4307	91.00	300	143.00	510		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5240.D

Date : 30-OCT-2000 08:00

Client ID: BFB2B cm 10/31

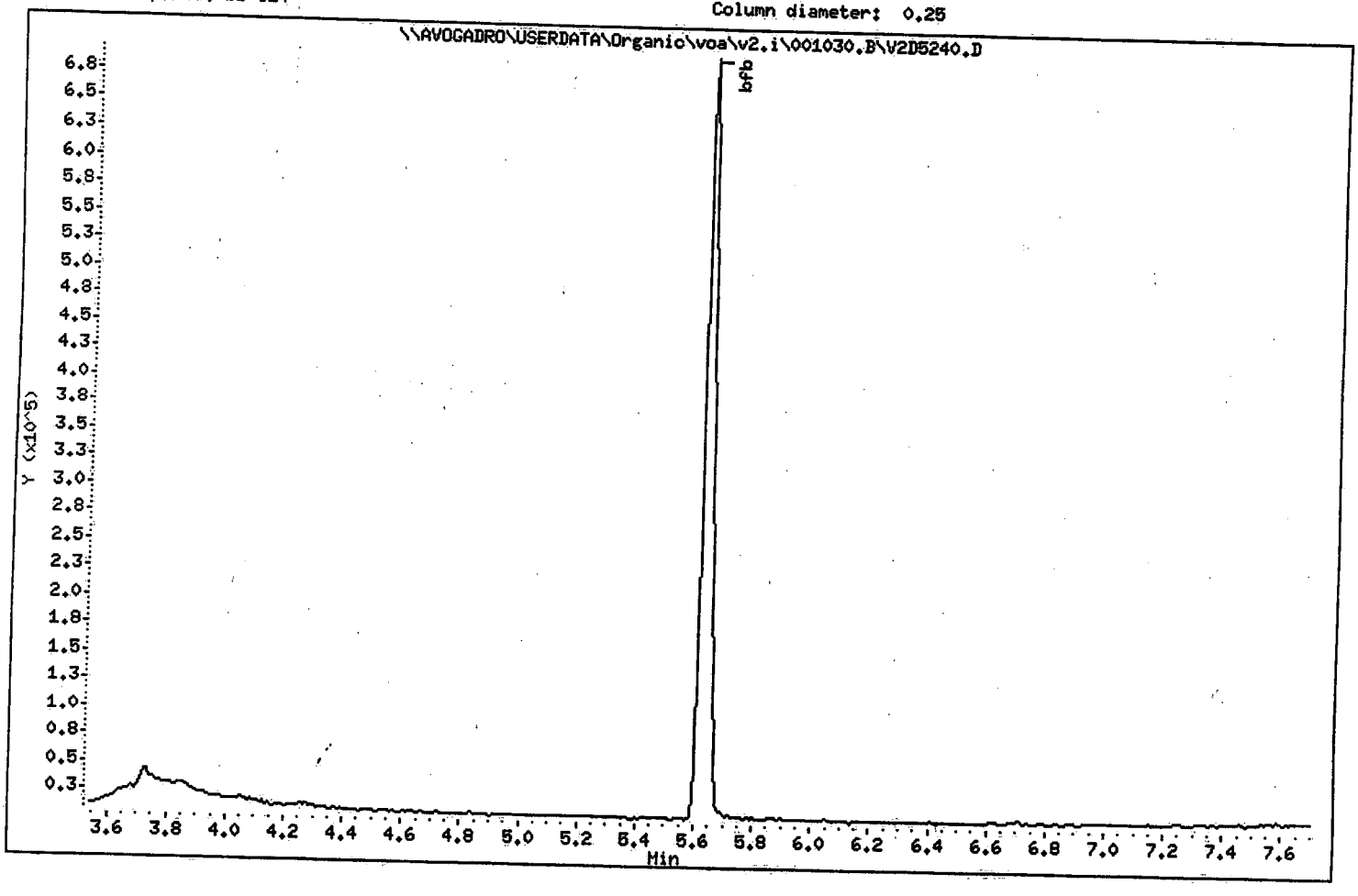
Instrument: v2.i

Sample Info: 524,V2T1030A,BFB2B

Operator: JT

Column phase: DB-624

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1027B

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1027B

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1027B

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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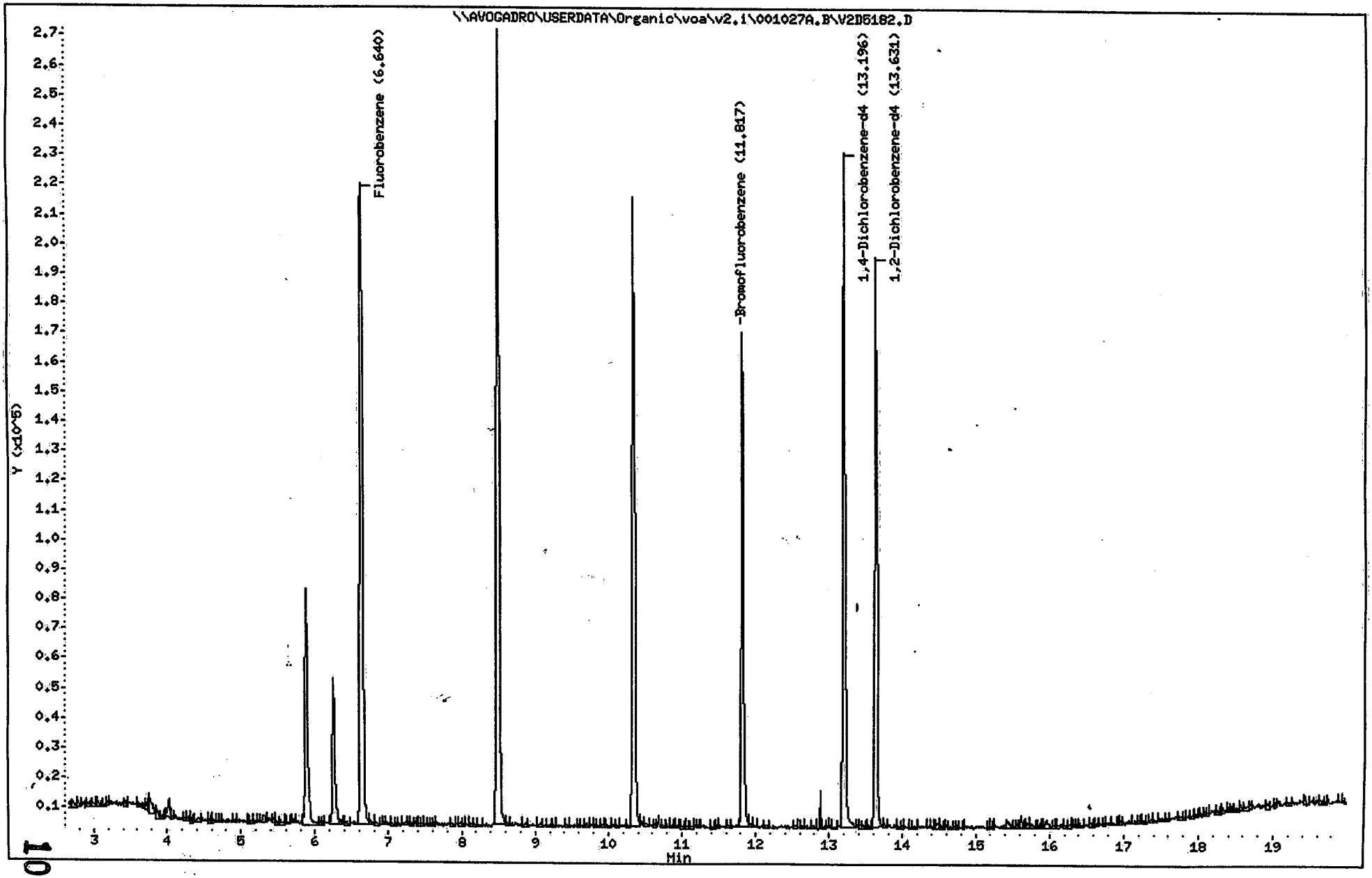
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5182.D
Date : 27-OCT-2000 16:31
Client ID: VBLK2Z
Sample Info: 524,V2B1027B,VBLK2Z,V2B1027B
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



105

Data File: V2D5182.D
Report Date: 31-Oct-2000 11:35

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5182.D
Lab Smp Id: V2B1027B Client Smp ID: VBLK2Z
Inj Date : 27-OCT-2000 16:31
Operator : JT Inst ID: v2.i
Smp Info : 524,V2B1027B,VBLK2Z,V2B1027B
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D~~5178.D~~
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.640	6.682	(1.000)	243480	5.00000	
$ 44 Bromofluorobenzene	95	11.817	11.848	(1.780)	64839	5.61303	6
* 57 1,4-Dichlorobenzene-d4	152	13.196	13.227	(1.000)	80501	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.631	13.662	(1.033)	63494	5.28790	5

10/31/00

Data File: V2D5182.D
Report Date: 31-Oct-2000 11:35

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5182.D
Lab Smp Id: V2B1027B Client Smp ID: VBLK2Z
Inj Date : 27-OCT-2000 16:31
Operator : JT Inst ID: v2.i
Smp Info : 524,V2B1027B,VBLK2Z,V2B1027B
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1030A

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5242

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
1634-04-4	Methyl tert-butyl ether	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
156-59-2	cis-1,2-Dichloroethene	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
71-43-2	Benzene	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1030A

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5242

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	0.5	U
136777-61-2	m,p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
108-86-1	Bromobenzene	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
96-12-8	1,2-Dibromo-3-chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2B1030A

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5242

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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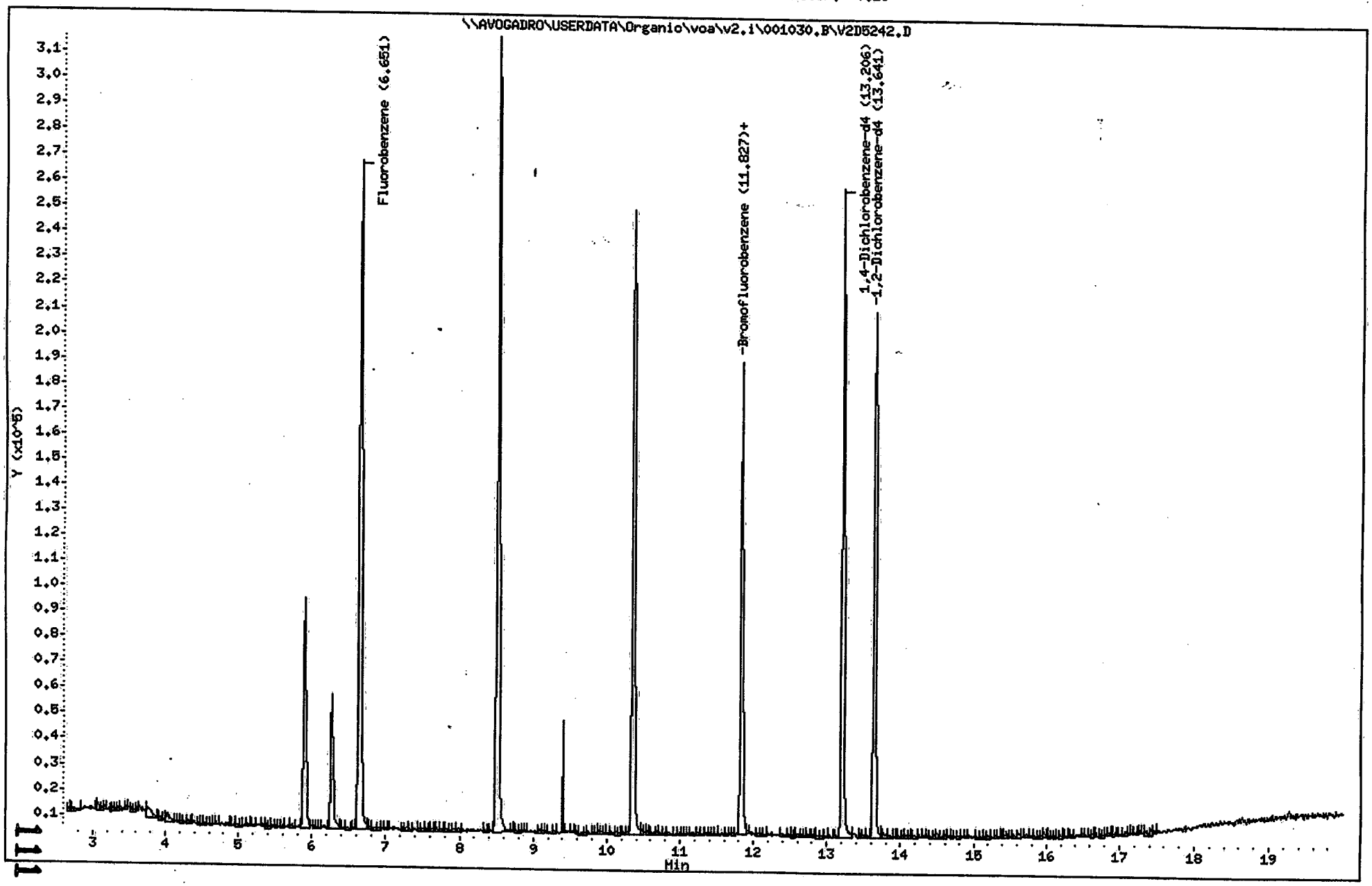
Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5242.D
Date : 30-OCT-2000 08:50
Client ID: VBLK2B
Sample Info: 524,V2B1030A,VBLK2B,V2B1030A
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i

Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5242.D
Report Date: 31-Oct-2000 15:04

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5242.D
Lab Smp Id: V2B1030A Client Smp ID: VBLK2B
Inj Date : 30-OCT-2000 08:50
Operator : JT Inst ID: v2.i
Smp Info : 524,V2B1030A,VBLK2B,V2B1030A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\v2524.m
Meth Date : 30-Oct-2000 09:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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)
* 22 Fluorobenzene	96	6.651	6.655	(1.000)	284773	5.00000	
$ 44 Bromofluorobenzene	95	11.827	11.832	(1.778)	73503	5.44040	5
* 57 1,4-Dichlorobenzene-d4	152	13.206	13.211	(1.000)	88345	5.00000	
$ 59 1,2-Dichlorobenzene-d4	152	13.641	13.645	(1.033)	72042	5.46708	5

10/31/00

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5242.D
Report Date: 31-Oct-2000 15:02

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5242.D
Lab Smp Id: V2B1030A Client Smp ID: VBLK2B
Inj Date : 30-OCT-2000 08:50
Operator : JT Inst ID: v2.i
Smp Info : 524,V2B1030A,VBLK2B,V2B1030A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\v2524.m
Meth Date : 30-Oct-2000 09:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2L1027C

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5185

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/27/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	2	
74-87-3	Chloromethane	2	
75-01-4	Vinyl Chloride	2	
74-83-9	Bromomethane	2	
75-00-3	Chloroethane	2	
75-69-4	Trichlorofluoromethane	2	
75-35-4	1,1-Dichloroethene	2	
75-09-2	Methylene Chloride	2	
156-60-5	trans-1,2-Dichloroethene	2	
1634-04-4	Methyl tert-butyl ether	2	
75-34-3	1,1-Dichloroethane	2	
156-59-2	cis-1,2-Dichloroethene	2	
590-20-7	2,2-Dichloropropane	2	
107-06-2	1,2-Dichloroethane	2	
74-97-5	Bromochloromethane	2	
67-66-3	Chloroform	2	
56-23-5	Carbon Tetrachloride	2	
71-55-6	1,1,1-Trichloroethane	2	
563-58-6	1,1-Dichloropropene	2	
79-01-6	Trichloroethene	2	
78-87-5	1,2-Dichloropropane	2	
71-43-2	Benzene	2	
74-95-3	Dibromomethane	2	
75-27-4	Bromodichloromethane	2	
10061-01-5	cis-1,3-Dichloropropene	2	
108-88-3	Toluene	2	
10061-02-6	trans-1,3-Dichloropropene	2	
79-00-5	1,1,2-Trichloroethane	2	
127-18-4	Tetrachloroethene	2	
142-28-9	1,3-Dichloropropane	2	
124-48-1	Dibromochloromethane	2	
106-93-4	1,2-Dibromoethane	2	
108-90-7	Chlorobenzene	2	
630-20-6	1,1,1,2-Tetrachloroethane	2	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: V2L1027C

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5185

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 10/27/00

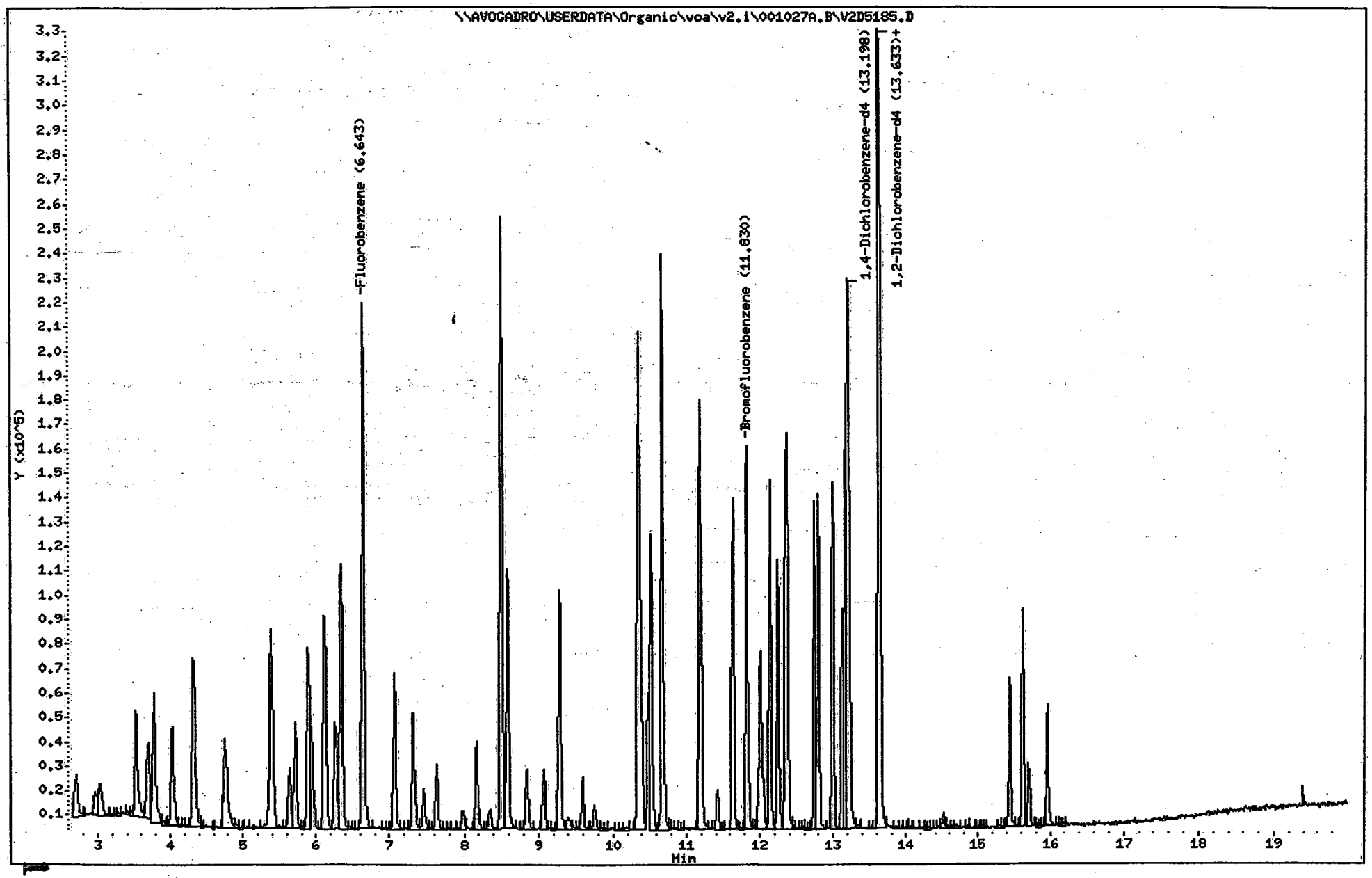
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	2	
136777-61-2	m,p-Xylene	4	
95-47-6	o-Xylene	2	
100-42-5	Styrene	2	
75-25-2	Bromoform	3	
98-82-8	Isopropylbenzene	2	
79-34-5	1,1,2,2-Tetrachloroethane	3	
108-86-1	Bromobenzene	2	
96-18-4	1,2,3-Trichloropropane	3	
103-65-1	n-Propylbenzene	2	
95-49-8	2-Chlorotoluene	2	
108-67-8	1,3,5-Trimethylbenzene	2	
106-43-4	4-Chlorotoluene	2	
98-06-6	tert-Butylbenzene	2	
95-63-6	1,2,4-Trimethylbenzene	2	
135-98-8	sec-Butylbenzene	2	
541-73-1	1,3-Dichlorobenzene	2	
99-87-6	4-Isopropyltoluene	2	
106-46-7	1,4-Dichlorobenzene	2	
104-51-8	n-Butylbenzene	2	
95-50-1	1,2-Dichlorobenzene	2	
96-12-8	1,2-Dibromo-3-chloropropane	2	
120-82-1	1,2,4-Trichlorobenzene	2	
87-68-3	Hexachlorobutadiene	2	
91-20-3	Naphthalene	2	
87-61-6	1,2,3-Trichlorobenzene	2	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5185.D
Date : 27-OCT-2000 18:34
Client ID: VBLK2ZLCS
Sample Info: 524,V2L1027C,VBLK2ZLCS,V2B1027B
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: V2D5185.D
Report Date: 31-Oct-2000 11:31

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\V2D5185.D
Lab Smp Id: V2L1027C Client Smp ID: VBLK2ZLCS
Inj Date : 27-OCT-2000 18:34
Operator : JT Inst ID: v2.i
Smp Info : 524,V2L1027C,VBLK2ZLCS,V2B1027B
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001027A.B\v2524.m
Meth Date : 28-Oct-2000 10:45 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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	1.933	1.962	(0.291)	19665	2.11982	2
2 Chloromethane	50	2.113	2.142	(0.318)	47841	2.02947	2
3 Vinyl Chloride	62	2.262	2.291	(0.340)	40323	2.16904	2
4 Bromomethane	94	2.601	2.630	(0.392)	28939	2.45992	2(R)
5 Chloroethane	64	2.697	2.726	(0.406)	23127	2.12159	2
6 Trichlorofluoromethane	101	3.047	3.065	(0.459)	17286	2.16252	2
7 1,1-Dichloroethene	96	3.535	3.553	(0.532)	21341	2.10558	2
8 Methylene Chloride	84	4.033	4.052	(0.607)	22689	1.97693	2
9 trans-1,2-Dichloroethene	96	4.320	4.349	(0.650)	27384	2.11208	2
10 Methyl tert-butyl ether	73	4.330	4.359	(0.652)	26690	2.15843	2
11 1,1-Dichloroethane	63	4.755	4.794	(0.716)	50277	2.06793	2
12 cis-1,2-Dichloroethene	96	5.380	5.410	(0.810)	25592	2.23293	2
13 2,2-Dichloropropane	77	5.391	5.420	(0.812)	37499	2.40634	2(R)
M 14 1,2-Dichloroethene (Total)	96				52976	4.34501	4
15 Bromochloromethane	128	5.646	5.664	(0.850)	8485	2.07930	2
16 Chloroform	83	5.720	5.749	(0.861)	39265	2.25499	2

Data File: V2D5185.D
Report Date: 31-Oct-2000 11:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	17 1,1,1-Trichloroethane	97	5.943	5.972	(0.895)	33598	2.34225	2
	18 1,1-Dichloropropene	75	6.112	6.141	(0.920)	36628	2.24767	2
	19 Carbon Tetrachloride	117	6.134	6.163	(0.923)	28770	2.35913	2
	20 Benzene	78	6.346	6.375	(0.955)	98136	2.13001	2
	21 1,2-Dichloroethane	62	6.346	6.375	(0.955)	16863	2.21426	2
*	22 Fluorobenzene	96	6.643	6.682	(1.000)	226866	5.00000	
	23 Trichloroethene	95	7.067	7.096	(1.064)	26534	2.20441	2
	24 1,2-Dichloropropane	63	7.322	7.351	(1.102)	24832	2.24695	2
	25 Dibromomethane	93	7.460	7.489	(1.123)	7235	2.06005	2
	26 Bromodichloromethane	83	7.640	7.669	(1.150)	21738	2.28027	2
	27 cis-1,3-Dichloropropene	75	8.170	8.199	(1.230)	25046	2.11569	2
	28 Toluene	92	8.584	8.624	(1.292)	60098	2.22274	2
	29 trans-1,3-Dichloropropene	75	8.849	8.878	(1.332)	16031	2.12596	2
	30 1,1,2-Trichloroethane	83	9.083	9.111	(1.367)	9343	2.38187	2
	31 Tetrachloroethene	166	9.284	9.324	(1.398)	33413	2.27509	2
	32 1,3-Dichloropropane	76	9.295	9.324	(1.399)	16996	2.27614	2
	33 Dibromochloromethane	129	9.592	9.621	(1.444)	14501	2.48370	2(R)
	34 1,2-Dibromoethane	107	9.740	9.780	(1.466)	10069	2.36407	2
	35 Chlorobenzene	112	10.387	10.416	(1.564)	56803	2.22851	2
	36 1,1,1,2-Tetrachloroethane	131	10.483	10.522	(1.578)	20122	2.47245	2(R)
	37 Ethylbenzene	91	10.525	10.554	(1.584)	102825	2.11011	2
	38 m,p-Xylene	106	10.674	10.703	(1.607)	83987	4.46764	4
	39 o-Xylene	106	11.183	11.212	(1.683)	38333	2.20147	2
	40 Styrene	104	11.193	11.222	(1.685)	59799	2.30307	2
	42 Bromoform	173	11.427	11.456	(1.720)	9691	2.69660	3(R)
	43 Isopropylbenzene	105	11.639	11.668	(1.752)	104376	2.15775	2
M	41 Xylene (Total)	106				122320	6.66911	7
$	44 Bromofluorobenzene	95	11.830	11.848	(1.781)	62091	5.76878	6
	45 1,1,2,2-Tetrachloroethane	83	11.989	12.018	(0.988)	13402	2.73889	3(R)
	46 Bromobenzene	156	12.010	12.039	(0.909)	24467	2.30264	2
	47 1,2,3-Trichloropropane	75	12.053	12.071	(0.912)	11362	2.87204	3(QR)
	48 n-Propylbenzene	91	12.138	12.167	(0.919)	128723	2.08767	2
	49 2-Chlorotoluene	91	12.244	12.273	(0.927)	74768	2.25744	2
	50 1,3,5-Trimethylbenzene	105	12.350	12.379	(0.935)	82411	2.05608	2
	51 4-Chlorotoluene	91	12.371	12.400	(0.937)	79212	2.20157	2
	52 tert-Butylbenzene	119	12.742	12.771	(0.965)	71450	2.04139	2
	53 1,2,4-Trimethylbenzene	105	12.795	12.824	(0.969)	84007	2.13709	2
	54 sec-Butylbenzene	105	12.997	13.026	(0.984)	114747	2.02323	2
	55 1,3-Dichlorobenzene	146	13.135	13.153	(0.994)	50016	2.20350	2
	56 4-Isopropyltoluene	119	13.167	13.195	(0.997)	96398	2.13517	2
*	57 1,4-Dichlorobenzene-d4	152	13.209	13.227	(1.000)	78433	5.00000	
	58 1,4-Dichlorobenzene	146	13.230	13.259	(1.002)	49843	2.27323	2
$	59 1,2-Dichlorobenzene-d4	152	13.633	13.662	(1.032)	62282	5.32373	5
	60 n-Butylbenzene	91	13.633	13.662	(1.032)	91384	2.01531	2
	61 1,2-Dichlorobenzene	146	13.665	13.683	(1.035)	40670	2.34492	2
	62 1,2-Dibromo-3-chloropropane	75	14.524	14.553	(1.100)	1492	2.43743	2(R)
	63 1,2,4-Trichlorobenzene	180	15.437	15.466	(1.169)	27739	2.08381	2

Data File: V2D5185.D
Report Date: 31-Oct-2000 11:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 Hexachlorobutadiene	225	15.628	15.646	(1.183)	24957	2.10712	2
65 Naphthalene	128	15.702	15.731	(1.189)	26029	2.16102	2
66 1,2,3-Trichlorobenzene	180	15.956	15.985	(1.208)	17505	1.78726	2

10/31/00

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 7171712006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5245

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	
74-87-3	Chloromethane	9	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	12	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	12	
75-35-4	1,1-Dichloroethene	10	
75-09-2	Methylene Chloride	9	
156-60-5	trans-1,2-Dichloroethene	10	
1634-04-4	Methyl tert-butyl ether	12	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	11	
590-20-7	2,2-Dichloropropane	12	
107-06-2	1,2-Dichloroethane	12	
74-97-5	Bromochloromethane	11	
67-66-3	Chloroform	11	
56-23-5	Carbon Tetrachloride	12	
71-55-6	1,1,1-Trichloroethane	12	
563-58-6	1,1-Dichloropropene	11	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	11	
71-43-2	Benzene	10	
74-95-3	Dibromomethane	11	
75-27-4	Bromodichloromethane	12	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	11	
142-28-9	1,3-Dichloropropane	12	
124-48-1	Dibromochloromethane	13	
106-93-4	1,2-Dibromoethane	12	
108-90-7	Chlorobenzene	11	
630-20-6	1,1,1,2-Tetrachloroethane	12	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 7171712006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5245

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

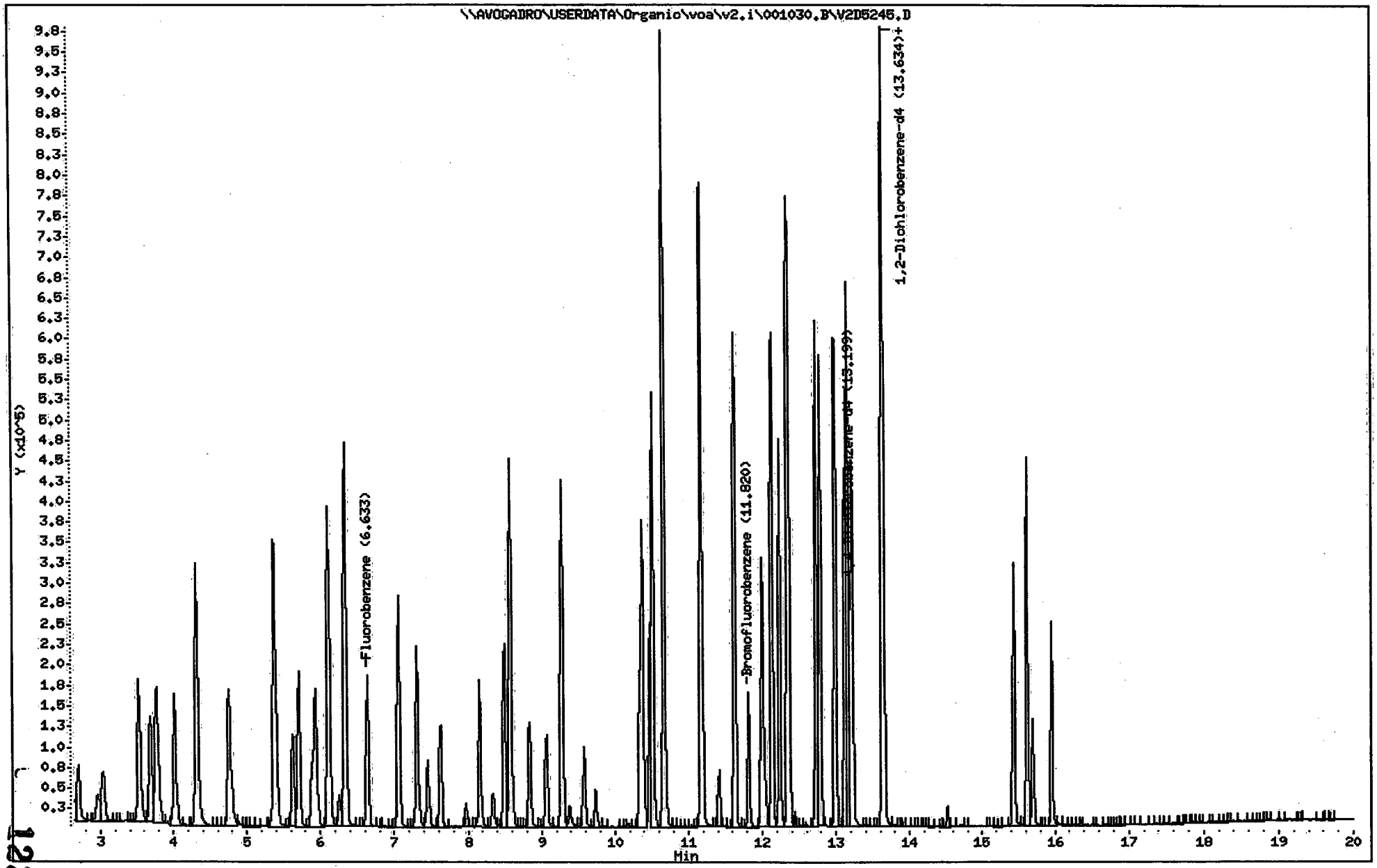
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	11	
136777-61-2	m,p-Xylene	22	
95-47-6	o-Xylene	11	
100-42-5	Styrene	12	
75-25-2	Bromoform	14	
98-82-8	Isopropylbenzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	10	
108-86-1	Bromobenzene	10	
96-18-4	1,2,3-Trichloropropane	11	
103-65-1	n-Propylbenzene	9	
95-49-8	2-Chlorotoluene	10	
108-67-8	1,3,5-Trimethylbenzene	10	
106-43-4	4-Chlorotoluene	10	
98-06-6	tert-Butylbenzene	10	
95-63-6	1,2,4-Trimethylbenzene	10	
135-98-8	sec-Butylbenzene	9	
541-73-1	1,3-Dichlorobenzene	10	
99-87-6	4-Isopropyltoluene	10	
106-46-7	1,4-Dichlorobenzene	10	
104-51-8	n-Butylbenzene	10	
95-50-1	1,2-Dichlorobenzene	10	
96-12-8	1,2-Dibromo-3-chloropropane	10	
120-82-1	1,2,4-Trichlorobenzene	11	
87-68-3	Hexachlorobutadiene	10	
91-20-3	Naphthalene	11	
87-61-6	1,2,3-Trichlorobenzene	10	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5245.D
Date : 30-OCT-2000 12:23
Client ID: 230WS-CFMS
Sample Info: RFW,7171712006,230WS-CFMS,V2B1030A,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5245.D
Report Date: 31-Oct-2000 15:30

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5245.D
Lab Smp Id: 7171712006 Client Smp ID: 230WS-CFMS
Inj Date : 30-OCT-2000 12:23
Operator : JT Inst ID: v2.i
Smp Info : RFW,7171712006,230WS-CFMS,V2B1030A,,71712
Misc Info : 24-OCT-00,3,,MS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\v2524.m
Meth Date : 30-Oct-2000 09:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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	1.945	(0.292)	77832	9.61324	10
	2 Chloromethane	50	2.125	2.126	(0.320)	193654	9.41272	9
	3 Vinyl Chloride	62	2.273	2.274	(0.343)	173328	10.6829	11
	4 Bromomethane	94	2.613	2.614	(0.394)	120607	11.7467	12
	5 Chloroethane	64	2.697	2.720	(0.407)	93920	9.87203	10
	6 Trichlorofluoromethane	101	3.037	3.049	(0.458)	85695	12.2837	12
	7 1,1-Dichloroethene	96	3.525	3.547	(0.531)	91346	10.3265	10
	8 Methylene Chloride	84	4.024	4.046	(0.607)	92247	9.20947	9
	9 trans-1,2-Dichloroethene	96	4.321	4.332	(0.651)	117160	10.3538	10
	10 Methyl tert-butyl ether	73	4.321	4.343	(0.651)	126181	11.6920	12
	11 1,1-Dichloroethane	63	4.755	4.777	(0.717)	215761	10.1683	10
	12 cis-1,2-Dichloroethene	96	5.371	5.393	(0.810)	107723	10.7693	11
	13 2,2-Dichloropropane	77	5.392	5.414	(0.813)	156471	11.5048	12
M	14 1,2-Dichloroethene (Total)	96				224883	21.1230	21
	15 Bromochloromethane	128	5.636	5.658	(0.850)	40760	11.4448	11(Q)
	16 Chloroform	83	5.710	5.732	(0.861)	170326	11.2080	11

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5245.D
Report Date: 31-Oct-2000 15:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	17 1,1,1-Trichloroethane	97	5.933	5.955	(0.894)	144793	11.5657	12
	18 1,1-Dichloropropene	75	6.103	6.125	(0.920)	157423	11.0687	11
	19 Carbon Tetrachloride	117	6.124	6.146	(0.923)	127908	12.0175	12
	20 Benzene	78	6.336	6.358	(0.955)	412770	10.2652	10
	21 1,2-Dichloroethane	62	6.336	6.358	(0.955)	78550	11.8181	12
*	22 Fluorobenzene	96	6.633	6.655	(1.000)	197999	5.00000	
	23 Trichloroethene	95	7.057	7.079	(1.064)	112959	10.7527	11
	24 1,2-Dichloropropane	63	7.312	7.334	(1.102)	102799	10.6580	11
	25 Dibromomethane	93	7.450	7.472	(1.123)	35018	11.4245	11
	26 Bromodichloromethane	83	7.630	7.652	(1.150)	98256	11.8095	12
	27 cis-1,3-Dichloropropene	75	8.161	8.183	(1.230)	115092	11.1395	11
	28 Toluene	92	8.574	8.596	(1.293)	254206	10.7726	11
	29 trans-1,3-Dichloropropene	75	8.839	8.861	(1.333)	78642	11.9496	12
	30 1,1,2-Trichloroethane	83	9.073	9.084	(1.368)	39223	11.4572	11
	31 Tetrachloroethane	166	9.274	9.296	(1.398)	146257	11.4105	11
	32 1,3-Dichloropropane	76	9.285	9.307	(1.400)	77889	11.9518	12
	33 Dibromochloromethane	129	9.582	9.604	(1.445)	64979	12.7520	13
	34 1,2-Dibromoethane	107	9.730	9.752	(1.467)	44970	12.0977	12
	35 Chlorobenzene	112	10.377	10.400	(1.565)	255019	11.4636	11
	36 1,1,1,2-Tetrachloroethane	131	10.484	10.495	(1.581)	85325	12.0127	12
	37 Ethylbenzene	91	10.515	10.537	(1.585)	455880	10.7192	11
	38 m,p-Xylene	106	10.664	10.686	(1.608)	359926	21.9374	22
	39 o-Xylene	106	11.173	11.195	(1.684)	168589	11.0937	11
	40 Styrene	104	11.184	11.206	(1.686)	266692	11.7687	12
	42 Bromoform	173	11.417	11.439	(1.721)	44362	14.1438	14(R)
	43 Isopropylbenzene	105	11.629	11.651	(1.753)	476496	11.2867	11
M	41 Xylene (Total)	106				528515	33.0311	33
$	44 Bromofluorobenzene	95	11.820	11.832	(1.782)	59539	6.33816	6(R)
	45 1,1,2,2-Tetrachloroethane	83	11.990	12.001	(0.908)	50827	10.4150	10
	46 Bromobenzene	156	12.000	12.023	(0.909)	110630	10.4394	10
	47 1,2,3-Trichloropropane	75	12.043	12.054	(0.912)	43354	10.9881	11(Q)
	48 n-Propylbenzene	91	12.138	12.150	(0.920)	578355	9.40498	9
	49 2-Chlorotoluene	91	12.234	12.256	(0.927)	322856	9.77388	10
	50 1,3,5-Trimethylbenzene	105	12.350	12.362	(0.936)	389534	9.74448	10
	51 4-Chlorotoluene	91	12.372	12.383	(0.937)	350947	9.78007	10
	52 tert-Butylbenzene	119	12.732	12.754	(0.965)	347858	9.96518	10
	53 1,2,4-Trimethylbenzene	105	12.796	12.807	(0.969)	390004	9.94800	10
	54 sec-Butylbenzene	105	12.998	13.009	(0.985)	534831	9.45541	9
	55 1,3-Dichlorobenzene	146	13.125	13.136	(0.994)	228008	10.0719	10
	56 4-Isopropyltoluene	119	13.157	13.179	(0.997)	454573	10.0955	10
*	57 1,4-Dichlorobenzene-d4	152	13.199	13.211	(1.000)	78224	5.00000	
	58 1,4-Dichlorobenzene	146	13.220	13.242	(1.002)	224725	10.2766	10
$	59 1,2-Dichlorobenzene-d4	152	13.634	13.645	(1.033)	63541	5.44585	5
	60 n-Butylbenzene	91	13.634	13.645	(1.033)	433766	9.59149	10
	61 1,2-Dichlorobenzene	146	13.655	13.667	(1.035)	173708	10.0423	10
	62 1,2-Dibromo-3-chloropropane	75	14.525	14.537	(1.100)	6116	10.0182	10
	63 1,2,4-Trichlorobenzene	180	15.437	15.449	(1.170)	143745	10.8273	11

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5245.D
Report Date: 31-Oct-2000 15:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
64 Hexachlorobutadiene	225	15.618	15.629	(1.183)	117437	9.94172	10
65 Naphthalene	128	15.692	15.714	(1.189)	128034	10.6583	11
66 1,2,3-Trichlorobenzene	180	15.957	15.969	(1.209)	102870	10.5311	10

QC Flag Legend

10/31/00

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5254

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	9	
74-87-3	Chloromethane	10	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	13	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-35-4	1,1-Dichloroethene	10	
75-09-2	Methylene Chloride	9	
156-60-5	trans-1,2-Dichloroethene	10	
1634-04-4	Methyl tert-butyl ether	10	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
590-20-7	2,2-Dichloropropane	11	
107-06-2	1,2-Dichloroethane	12	
74-97-5	Bromochloromethane	10	
67-66-3	Chloroform	11	
56-23-5	Carbon Tetrachloride	12	
71-55-6	1,1,1-Trichloroethane	11	
563-58-6	1,1-Dichloropropene	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
71-43-2	Benzene	10	
74-95-3	Dibromomethane	10	
75-27-4	Bromodichloromethane	11	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	10	
142-28-9	1,3-Dichloropropane	11	
124-48-1	Dibromochloromethane	12	
106-93-4	1,2-Dibromoethane	11	
108-90-7	Chlorobenzene	10	
630-20-6	1,1,1,2-Tetrachloroethane	11	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712006

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: V2D5254

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

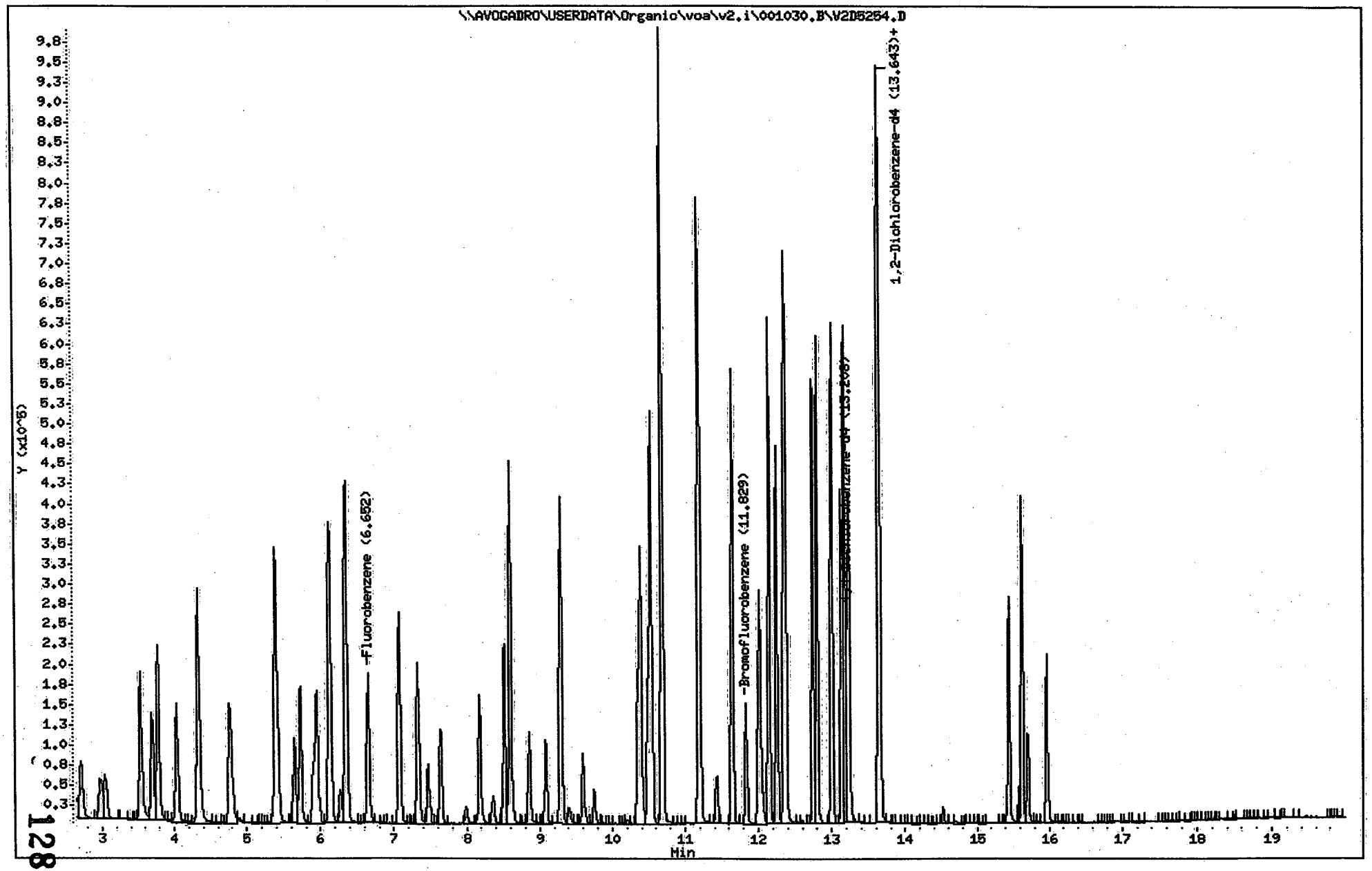
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-41-4	Ethylbenzene	10	
136777-61-2	m,p-Xylene	21	
95-47-6	o-Xylene	10	
100-42-5	Styrene	11	
75-25-2	Bromoform	12	
98-82-8	Isopropylbenzene	11	
79-34-5	1,1,2,2-Tetrachloroethane	10	
108-86-1	Bromobenzene	10	
96-18-4	1,2,3-Trichloropropane	10	
103-65-1	n-Propylbenzene	9	
95-49-8	2-Chlorotoluene	9	
108-67-8	1,3,5-Trimethylbenzene	10	
106-43-4	4-Chlorotoluene	10	
98-06-6	tert-Butylbenzene	10	
95-63-6	1,2,4-Trimethylbenzene	10	
135-98-8	sec-Butylbenzene	9	
541-73-1	1,3-Dichlorobenzene	10	
99-87-6	4-Isopropyltoluene	10	
106-46-7	1,4-Dichlorobenzene	10	
104-51-8	n-Butylbenzene	9	
95-50-1	1,2-Dichlorobenzene	10	
96-12-8	1,2-Dibromo-3-chloropropane	10	
120-82-1	1,2,4-Trichlorobenzene	9	
87-68-3	Hexachlorobutadiene	9	
91-20-3	Naphthalene	9	
87-61-6	1,2,3-Trichlorobenzene	9	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5254.D
Date : 30-OCT-2000 17:27
Client ID: 230WS-CFMSD
Sample Info: RFW,71712006,230WS-CFMS,V2B1030A,,71712
Purge Volume: 25.0
Column phase: DB-624

Instrument: v2.i
Operator: JT
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5254.D
Report Date: 31-Oct-2000 15:30

Mitkem Corporation

524.2 VOLATILE QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5254.D
Lab Smp Id: 71712006 Client Smp ID: 230WS-CFMSD
Inj Date : 30-OCT-2000 17:27
Operator : JT Inst ID: v2.i
Smp Info : RFW,71712006,230WS-CFMS,V2B1030A,,71712
Misc Info : 24-OCT-00,3,,MS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\v2524.m
Meth Date : 30-Oct-2000 09:07 mtl Quant Type: ISTD
Cal Date : 27-OCT-2000 14:38 Cal File: V2D5178.D
Als bottle: 14 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

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	1.942	1.945	(0.292)	72153	8.86422	9
	2 Chloromethane	50	2.133	2.126	(0.321)	199172	9.62923	10
	3 Vinyl Chloride	62	2.271	2.274	(0.341)	182471	11.1864	11
	4 Bromomethane	94	2.611	2.614	(0.392)	130669	12.6587	13
	5 Chloroethane	64	2.706	2.720	(0.407)	103019	10.7706	11
	6 Trichlorofluoromethane	101	3.046	3.049	(0.458)	73515	10.4815	10
	7 1,1-Dichloroethene	96	3.534	3.547	(0.531)	88920	9.99857	10
	8 Methylene Chloride	84	4.032	4.046	(0.606)	86824	8.62178	9
	9 trans-1,2-Dichloroethene	96	4.329	4.332	(0.651)	110610	9.72273	10
	10 Methyl tert-butyl ether	73	4.340	4.343	(0.652)	111428	10.2699	10
	11 1,1-Dichloroethane	63	4.764	4.777	(0.716)	203184	9.52441	10
	12 cis-1,2-Dichloroethene	96	5.390	5.393	(0.810)	100202	9.96389	10
	13 2,2-Dichloropropane	77	5.401	5.414	(0.812)	155814	11.3953	11
M	14 1,2-Dichloroethene (Total)	96				210812	19.6866	20
	15 Bromochloromethane	128	5.644	5.658	(0.849)	36942	10.3173	10(Q)
	16 Chloroform	83	5.729	5.732	(0.861)	162166	10.6140	11

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5254.D
Report Date: 31-Oct-2000 15:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	17 1,1,1-Trichloroethane	97	5.952	5.955	(0.895)	143537	11.4042	11
	18 1,1-Dichloropropene	75	6.122	6.125	(0.920)	150042	10.4933	10
	19 Carbon Tetrachloride	117	6.143	6.146	(0.923)	123304	11.5231	12
	20 Benzene	78	6.345	6.358	(0.954)	394544	9.75955	10
	21 1,2-Dichloroethane	62	6.355	6.358	(0.955)	76875	11.5043	12
*	22 Fluorobenzene	96	6.652	6.655	(1.000)	199062	5.00000	
	23 Trichloroethene	95	7.077	7.079	(1.064)	105023	9.94388	10
	24 1,2-Dichloropropane	63	7.331	7.334	(1.102)	97920	10.0980	10
	25 Dibromomethane	93	7.469	7.472	(1.123)	31973	10.3754	10
	26 Bromodichloromethane	83	7.639	7.652	(1.148)	92794	11.0935	11
	27 cis-1,3-Dichloropropene	75	8.180	8.183	(1.230)	105825	10.1879	10
	28 Toluene	92	8.593	8.596	(1.292)	243636	10.2696	10
	29 trans-1,3-Dichloropropene	75	8.859	8.861	(1.332)	74358	11.2383	11
	30 1,1,2-Trichloroethane	83	9.081	9.084	(1.365)	37149	10.7934	11
	31 Tetrachloroethene	166	9.293	9.296	(1.397)	135649	10.5264	10
	32 1,3-Dichloropropane	76	9.304	9.307	(1.399)	72221	11.0229	11
	33 Dibromochloromethane	129	9.601	9.604	(1.443)	59037	11.5241	12
	34 1,2-Dibromoethane	107	9.750	9.752	(1.466)	40004	10.7043	11
	35 Chlorobenzene	112	10.397	10.400	(1.563)	229633	10.2673	10
	36 1,1,1,2-Tetrachloroethane	131	10.492	10.495	(1.577)	80142	11.2227	11
	37 Ethylbenzene	91	10.535	10.537	(1.584)	430541	10.0694	10
	38 m,p-Xylene	106	10.683	10.686	(1.606)	343420	20.8196	21
	39 o-Xylene	106	11.192	11.195	(1.682)	161321	10.5587	10
	40 Styrene	104	11.203	11.206	(1.684)	247782	10.8759	11
	42 Bromoform	173	11.436	11.439	(1.719)	37993	12.0485	12
	43 Isopropylbenzene	105	11.648	11.651	(1.751)	450801	10.6210	11
M	41 Xylene (Total)	106				504741	31.3784	31
$	44 Bromofluorobenzene	95	11.829	11.832	(1.778)	59001	6.24735	6(R)
	45 1,1,2,2-Tetrachloroethane	83	11.998	12.001	(0.908)	47391	10.1042	10
	46 Bromobenzene	156	12.020	12.023	(0.910)	99989	9.81748	10
	47 1,2,3-Trichloropropane	75	12.051	12.054	(0.912)	40088	10.5719	10(Q)
	48 n-Propylbenzene	91	12.147	12.150	(0.920)	558960	9.45775	9
	49 2-Chlorotoluene	91	12.253	12.256	(0.928)	300982	9.48074	9
	50 1,3,5-Trimethylbenzene	105	12.359	12.362	(0.936)	370181	9.63542	10
	51 4-Chlorotoluene	91	12.380	12.383	(0.937)	329644	9.55849	10
	52 tert-Butylbenzene	119	12.752	12.754	(0.965)	320374	9.54958	10
	53 1,2,4-Trimethylbenzene	105	12.805	12.807	(0.969)	368485	9.77980	10
	54 sec-Butylbenzene	105	13.006	13.009	(0.985)	504487	9.28020	9
	55 1,3-Dichlorobenzene	146	13.133	13.136	(0.994)	210058	9.65483	10
	56 4-Isopropyltoluene	119	13.176	13.179	(0.998)	423637	9.78950	10
*	57 1,4-Dichlorobenzene-d4	152	13.208	13.211	(1.000)	75179	5.00000	
	58 1,4-Dichlorobenzene	146	13.240	13.242	(1.002)	205044	9.75640	10
$	59 1,2-Dichlorobenzene-d4	152	13.643	13.645	(1.033)	60228	5.37098	5
	60 n-Butylbenzene	91	13.643	13.645	(1.033)	412500	9.49070	9
	61 1,2-Dichlorobenzene	146	13.664	13.667	(1.035)	162589	9.78020	10
	62 1,2-Dibromo-3-chloropropane	75	14.534	14.537	(1.100)	5700	9.71495	10
	63 1,2,4-Trichlorobenzene	180	15.446	15.449	(1.169)	116804	9.15434	9

Data File: \\AVOGADRO\USERDATA\Organic\voa\v2.i\001030.B\V2D5254.D
Report Date: 31-Oct-2000 15:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
64 Hexachlorobutadiene	225	15.626	15.629	(1.183)	103579	9.12371	9
65 Naphthalene	128	15.711	15.714	(1.190)	109060	9.44647	9
66 1,2,3-Trichlorobenzene	180	15.966	15.969	(1.209)	85135	9.06852	9

10/31/00

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

DATE: 10/27/00

INSTRUMENT V2
INJECTION LOG

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V2 524 CAL ID: VW001023A-GAS ANALYST: JT.
INITIAL CAL: 10/27/00 IS/SS ID: B-STD ARCHIVE:
10/6 C-25/SS10X
D-1,2-DCB
E-IS

COMMENTS:

AS #	FILE	MITKEM ID	CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DI	V2D5170	V2T1027A	BFB2Y	2ml	—	OK			
	71	V2S1027A	VSTD0102Y	25ml	—				
	72	V2B1027A	VBLK2Y						
	73	V2L1027A	VBLK2YLCS						
	74	↓	↓						
	75	V2C1027B	VSTD0005 2Y			OK, Curve for 5% Water			
	76	C	040			JT 10/27/00			
	77	D	020						
	78	E	004						
	79	V2L1027B	ICV			OK			

QAT00206
7V-19

Page: 015
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Reviewed By: _____

DATE: 10/27/00 (2nd Batch)

INSTRUMENT V2
INJECTION LOG

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V2 524 CAL ID: VW001023B-STD ANALYST: JT
INITIAL CAL: 10/27/00 IS/SS ID: A-GAS ARCHIVE:
1016D-12-00B
E-IS
C-IS/SS 10X
COMMENTS:

AS #	FILE	MITKEM ID	CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DI	V2D5180	V2T1027B	BFB2Z	2µl	—	OK			
1	81	V2S1027F	VSTD01022	25ml		OK			
2	82	V2B1027B	VBLK2Z			OK	✓	✓	
3	83	V2L1027C	VBLK2ZLCS			NG	✓	✓	
3	84					NG.	✓	✓	
4	85					OK	✓	✓	
6	86	71640002	3513			RR2X, Dont use.	✓	✓	3513
7	87	03	3520			OK	✓	✓	3520
8	88	04	3521			RR	✓	1↑	3521
9	89	71712001	230WS-IF			OK	✓	✓	
10	90	02	CF			OK	✓	✓	
11	91	03	EF			OK	✓	✓	
12	92	04	DF			OK	✓	✓	
13	93	05	TB-01			OK	✓	✓	
14	94	06	230WS-CFMS			RR MS	✓ all↑	all↑	
15	95	07	MSD			RR MSD	✓ all↑	all↑	
16	96	71640002	3513		1	~~OK~~ RR2X	✓	✓	3513
17	97	03	3520		2	~~RR~~ Not need.	✓	✓	3520
18	98	04	3521		1	OK	✓	✓	3521
19	99	71696001	MRZP-PORT 10			OK	✓	✓	
20	V2D5200	71696002	99			OK	✓	✓	
21	01	71696003	TB101800			OK	✓	✓	
22	02	71696004	MRZP-PORT10MS			RR MS	✓	all↑	
23	03	05	MSD			RR MSD	✓	all↑	
24	04	V2S1027G	VSTD01022						

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Reviewed By: _____

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DATE: 10/30/00

INSTRUMENT V2
INJECTION LOG

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V2 524 CAL ID: VW001023 A-GAS ANALYST: JT
INITIAL CAL: 10/27/00 IS/SS ID: B-STD ARCHIVE:
1016 D-1,2-DCB
COMMENTS: E-2S
C-2S/SS 10X.

AS #	FILE	MITKEM ID	CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DI	V2D5240	V2T1030A	BFB2B	2ml	—	OK			
1	41	V2S1030A	VSTD0102B	25ml	—	OK			
2	42	V2B1030A	VBLK2B		↓	OK	✓	✓	
3	43	V2L1030A	VBLK2BLCS		↓	OK	✓	✓	
4	44	71640002DL	3513DL		2	OK	✓	✓	3513
5	45	71712006	230WS-CFMS		1	use this one	✓	1↑	
6	46	07	MSD			Don't use.	✓	1↑	
7	47	71696004	MRIP-PORT10MS			> ~~use~~ report MS.MSD	✓	1↑	
8	48	↓ 05	↓ MSD				✓	1↑	
9	49	71718001	MRIP-PORT 10			OK	✓	✓	
10	50	02	↓ 99			OK	✓	✓	
11	51	03	TB102400			OK	✓	✓	
12	52	04	MRIP-PORT10MS			OK	✓	1↑	
13	53	↓ 05	MRIP-PORT10MSD			OK	✓	1↑	
14	54	71712007	230WS-CFMSD			use this one	✓	1↑	
15	55	71696004	MRIP-PORT10MS			Don't use.			
16	56	05	MSD			Run Stopped			

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Reviewed By:_____

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date In	Comments	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out
71684	EPA	10/21/00						07-10
71639	EPA	10/18/00	(01) PE	10/18/00 20:00	10/18/00 21:00			01
71712	ROY F WESTON	10/24/00						01-05
71718	WESTON	10/25/00						01-03
71720	EPA							01-10
71719	EPA							01-08
71722	M+E							02-12
71716	ENSR	10/24/00						01-02
71724	EPA	10/25/00	ENCORE'S					01-02
71717	ENVIROGEN	10/24/00						01-41
71724	ENSR	10/25/00						01-02
71721	EPA	10/26/00						02-07,08 an 10/26/00
71729	GZA							02-04
71733	MTE							04-08
71719	EPA							09-12
71724	EPA							03
71731	EPA							01-06
71732	IT							01-05
71734	TYREE		72 hr. TURN					01-07
71737	FW							01
71738	FW							01
71742	Weston	10/27/00	24 HR TURN					01→07
71741	EPA	10/27/00						01→04

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QAT00190
6V-19

Reviewed By: _____

MITKEM CORPORATION

* Semivolatile Organics *

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK1A	67	64	76	70	71	69	70	60	0
02	230WS-IF	72	72	87	73	75	86	73	64	0
03	230WS-CF	69	69	95	69	71	78	69	64	0
04	230WS-CFMS	85	84	98	92	95	101	92	77	0
05	230WS-CFMSD	71	71	91	74	74	89	72	66	0
06	230WS-EF	70	70	92	70	72	78	71	61	0
07	230WS-DF	69	67	89	72	73	73	71	65	0
08										
09										
10										
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28										
29										
30										

		QC LIMITS	
S1 (NBZ) =	Nitrobenzene-d5	(35-114)	
S2 (FBP) =	2-Fluorobiphenyl	(43-116)	
S3 (TPH) =	Terphenyl-d14	(33-141)	
S4 (PHL) =	Phenol-d5	(10-110)	
S5 (2FP) =	2-Fluorophenol	(21-110)	
S6 (TBP) =	2,4,6-Tribromophenol	(10-123)	
S7 (2CP) =	2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB) =	1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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.: 71712

Matrix Spike - EPA Sample No.: 230WS-CF

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0.0	65	87	12-110
2-Chlorophenol	75	0.0	65	87	27-123
N-Nitroso-di-n-prop.(1)	50	0.0	42	84	41-116
4-Chloro-3-Methylphenol	75	0.0	69	92	23- 97
Acenaphthene	50	0.0	43	86	46-118
4-Nitrophenol	75	0.0	69	92*	10- 80
2,4-Dinitrotoluene	50	0.0	46	92	24- 96
Pentachlorophenol	75	0.0	62	83	9-103
Pyrene	50	0.0	45	90	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	53	71	20	42	12-110
2-Chlorophenol	75	53	71	20	40	27-123
N-Nitroso-di-n-prop.(1)	50	38	76	10	38	41-116
4-Chloro-3-Methylphenol	75	55	73	23	42	23- 97
Acenaphthene	50	38	76	12	31	46-118
4-Nitrophenol	75	62	83*	10	50	10- 80
2,4-Dinitrotoluene	50	41	82	11	38	24- 96
Pentachlorophenol	75	61	81	2	50	9-103
Pyrene	50	45	90	0	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Lab File ID: S1B8445 Lab Sample ID: S1025-BW1

Instrument ID: S1 Date Extracted: 10/25/00

Matrix: (soil/water) WATER Date Analyzed: 11/07/00

Level: (low/med) LOW Time Analyzed: 2154

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	230WS-IF	71712001	S1B8448	11/08/00
02	230WS-CF	71712002	S1B8449	11/08/00
03	230WS-CFMS	71712006	S1B8450	11/08/00
04	230WS-CFMSD	71712007	S1B8451	11/08/00
05	230WS-EF	71712003	S1B8452	11/08/00
06	230WS-DF	71712004	S1B8453	11/08/00
07				
08				
09				
10				
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30				

COMMENTS: _____

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Lab File ID: S1B8437 DFTPP Injection Date: 11/07/00

Instrument ID: S1 DFTPP Injection Time: 1415

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	56.0
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	42.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	18.6
365	Greater than 0.75% of mass 198	2.32
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	73.7
443	15.0 - 24.0% of mass 442	14.3 (19.3)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	SSTD0501Y	SS1107A	S1B8438	11/07/00	1438
02	SSTD1601Y	SS1107B	S1B8439	11/07/00	1523
03	SSTD1201Y	SS1107C	S1B8440	11/07/00	1607
04	SSTD0801Y	SS1107D	S1B8441	11/07/00	1650
05	SSTD0101Y	SS1107E	S1B8442	11/07/00	1733
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Lab File ID: S1B8443B DFTPP Injection Date: 11/07/00

Instrument ID: S1 DFTPP Injection Time: 2008

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	63.5
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	45.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	16.5
365	Greater than 0.75% of mass 198	2.03
441	Present, but less than mass 443	8.1
442	40.0 - 110.0% of mass 198	54.3
443	15.0 - 24.0% of mass 442	10.7 (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	SSTD0501Z	SS1107F	S1B8444	11/07/00	2029
02	SBLK1A	S1025-BW1	S1B8445	11/07/00	2154
03	230WS-IF	71712001	S1B8448	11/08/00	0002
04	230WS-CF	71712002	S1B8449	11/08/00	0044
05	230WS-CFMS	71712006	S1B8450	11/08/00	0126
06	230WS-CFMSD	71712007	S1B8451	11/08/00	0209
07	230WS-EF	71712003	S1B8452	11/08/00	0252
08	230WS-DF	71712004	S1B8453	11/08/00	0335
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

EPA Sample No. (SSTD050##): SSTD0501Z Date Analyzed: 11/07/00

Lab File ID (Standard): S1B8444 Time Analyzed: 2029

Instrument ID: S1 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	262084	8.64	982423	11.09	505434	14.64
	UPPER LIMIT	524168	9.14	1964846	11.59	1010868	15.14
	LOWER LIMIT	131042	8.14	491212	10.59	252717	14.14
	EPA SAMPLE NO.						
01	SBLK1A	215092	8.64	821207	11.08	442310	14.64
02	230WS-IF	208808	8.63	774344	11.09	395441	14.64
03	230WS-CF	200956	8.64	747688	11.09	399642	14.64
04	230WS-CFMS	214025	8.64	782684	11.08	416500	14.64
05	230WS-CFMSD	204869	8.64	785843	11.08	400069	14.64
06	230WS-EF	201325	8.64	753892	11.09	390548	14.64
07	230WS-DF	179052	8.64	676830	11.08	367036	14.64
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (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.: 71712

EPA Sample No. (SSTD050##): SSTD0501Z Date Analyzed: 11/07/00

Lab File ID (Standard): S1B8444 Time Analyzed: 2029

Instrument ID: S1 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	697497	17.69	409284	23.10	228251	26.13
	UPPER LIMIT	1394994	18.19	818568	23.60	456502	26.63
	LOWER LIMIT	348749	17.19	204642	22.60	114126	25.63
	EPA SAMPLE NO.						
01	SBLK1A	638916	17.68	387799	23.10	219305	26.13
02	230WS-IF	550330	17.69	325935	23.10	197418	26.13
03	230WS-CF	554668	17.69	330263	23.09	197543	26.12
04	230WS-CFMS	599405	17.68	371985	23.09	234899	26.13
05	230WS-CFMSD	560261	17.68	333431	23.10	203052	26.13
06	230WS-EF	544810	17.69	318403	23.09	196850	26.12
07	230WS-DF	520086	17.68	307781	23.09	184102	26.13
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8449

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8449

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8449

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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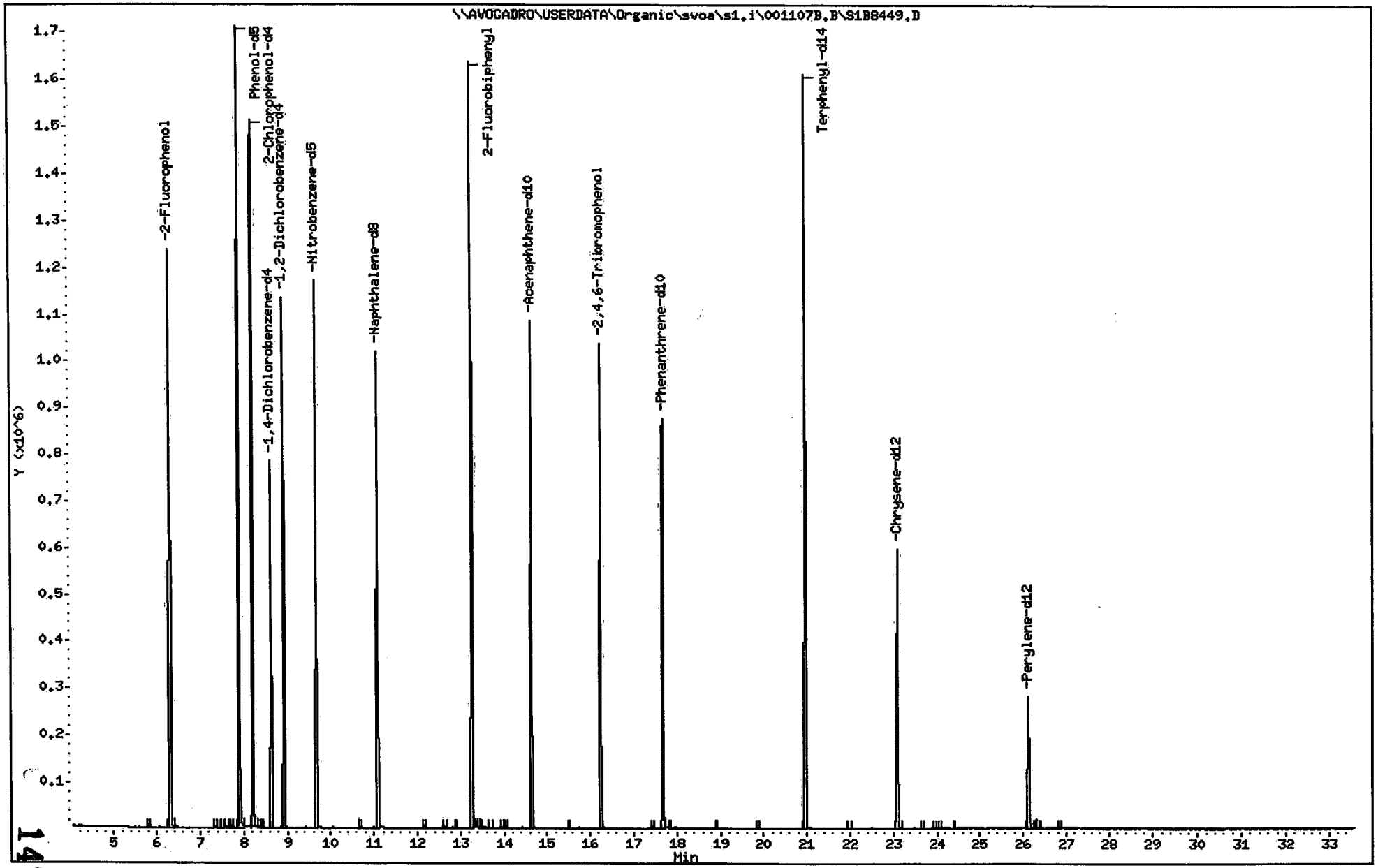
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8449.D
Date : 08-NOV-2000 00:44
Client ID: 230WS-CF
Sample Info: 71712002,230WS-CF,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: S1.i

Operator: RC
Column diameter: 0.25



147

Data File: S1B8449.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8449.D
Lab Smp Id: 71712002 Client Smp ID: 230WS-CF
Inj Date : 08-NOV-2000 00:44
Operator : RC Inst ID: S1.i
Smp Info : 71712002,230WS-CF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.313	6.313	(0.731)	759068	106.866	53
$ 3 Phenol-d5	99	7.901	7.901	(0.915)	1046789	103.134	52
$ 6 2-Chlorophenol-d4	132	8.214	8.214	(0.951)	794400	104.081	52
* 8 1,4-Dichlorobenzene-d4	152	8.635	8.635	(1.000)	200956	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.927	8.927	(1.034)	302624	63.7134	32
$ 16 Nitrobenzene-d5	82	9.672	9.683	(0.872)	578287	69.3836	35
* 23 Naphthalene-d8	136	11.087	11.087	(1.000)	747688	40.0000	
$ 33 2-Fluorobiphenyl	172	13.269	13.269	(0.906)	899083	69.2629	35
* 41 Acenaphthene-d10	164	14.641	14.641	(1.000)	399642	40.0000	
$ 53 2,4,6-Tribromophenol	330	16.250	16.250	(0.919)	173972	116.260	58
* 58 Phenanthrene-d10	188	17.687	17.687	(1.000)	554668	40.0000	
$ 65 Terphenyl-d14	244	20.960	20.960	(0.908)	855827	95.1001	48
* 69 Chrysene-d12	240	23.088	23.098	(1.000)	330263	40.0000	
* 76 Perylene-d12	264	26.123	26.134	(1.000)	197543	40.0000	

11/8/00

Data File: S1B8449.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8449.D
Lab Smp Id: 71712002 Client Smp ID: 230WS-CF
Inj Date : 08-NOV-2000 00:44
Operator : RC Inst ID: S1.i
Smp Info : 71712002,230WS-CF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8453

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8453

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-DF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8453

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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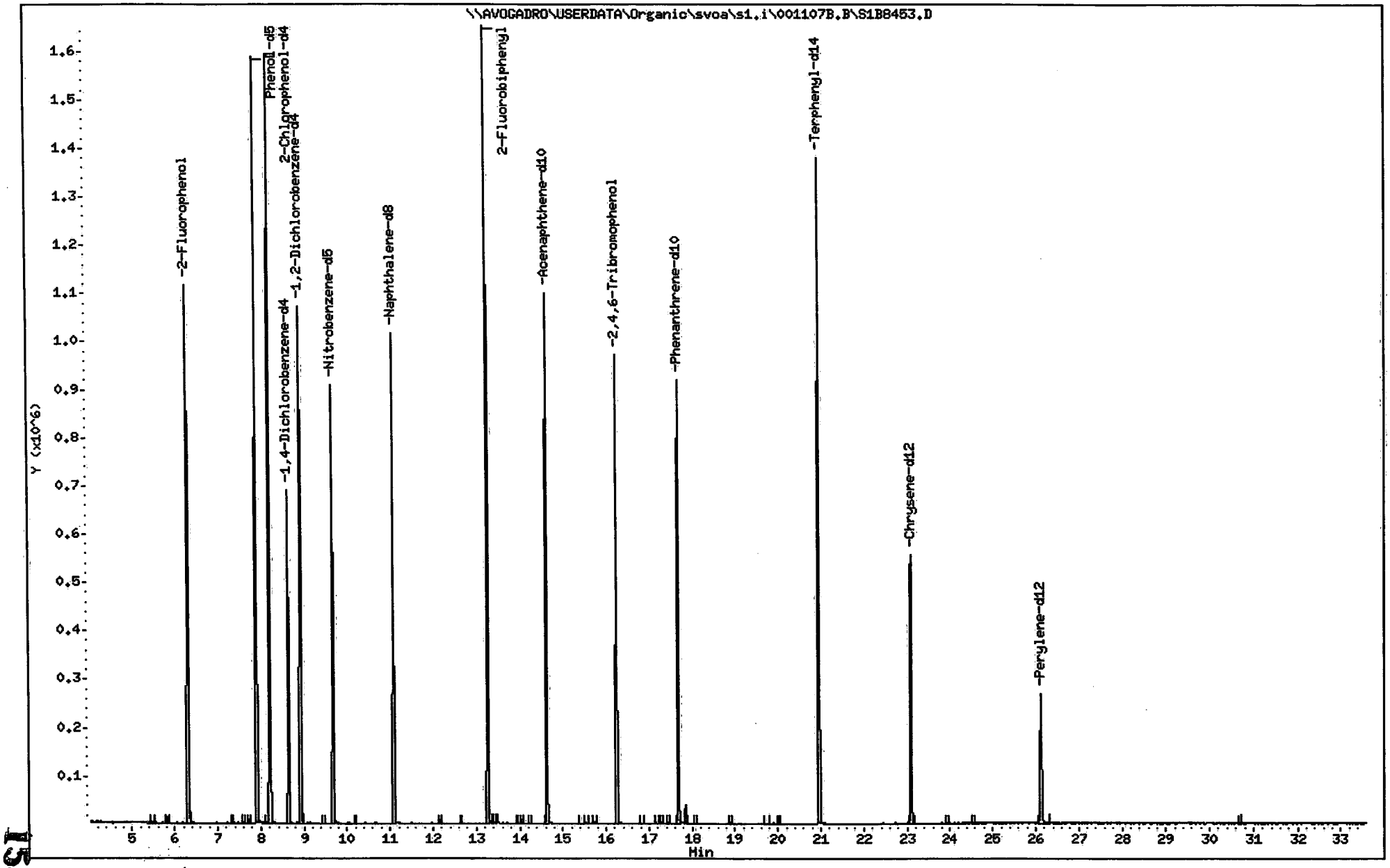
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8453.D
Date : 08-NOV-2000 03:35
Client ID: 230WS-DF
Sample Info: 71712004,230WS-DF,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: S1.i
Operator: RC
Column diameter: 0.25



Data File: S1B8453.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8453.D
Lab Smp Id: 71712004 Client Smp ID: 230WS-DF
Inj Date : 08-NOV-2000 03:35
Operator : RC Inst ID: S1.i
Smp Info : 71712004,230WS-DF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.320	6.313	(0.731)	690346	109.080	55
$ 3 Phenol-d5	99	7.908	7.901	(0.915)	973445	107.641	54
$ 6 2-Chlorophenol-d4	132	8.211	8.214	(0.950)	725546	106.689	53
* 8 1,4-Dichlorobenzene-d4	152	8.643	8.635	(1.000)	179052	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.924	8.927	(1.032)	273505	64.6271	32
$ 16 Nitrobenzene-d5	82	9.680	9.683	(0.873)	520500	68.9882	34
* 23 Naphthalene-d8	136	11.084	11.087	(1.000)	676830	40.0000	
$ 33 2-Fluorobiphenyl	172	13.266	13.269	(0.906)	803228	67.3755	34
* 41 Acenaphthene-d10	164	14.637	14.641	(1.000)	367036	40.0000	
$ 53 2,4,6-Tribromophenol	330	16.247	16.250	(0.919)	153053	109.081	55
* 58 Phenanthrene-d10	188	17.683	17.687	(1.000)	520086	40.0000	
$ 65 Terphenyl-d14	244	20.967	20.960	(0.908)	748646	89.2667	45
* 69 Chrysene-d12	240	23.095	23.098	(1.000)	307781	40.0000	
* 76 Perylene-d12	264	26.130	26.134	(1.000)	184102	40.0000	

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11/8/00

Data File: S1B8453.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8453.D
Lab Smp Id: 71712004 Client Smp ID: 230WS-DF
Inj Date : 08-NOV-2000 03:35
Operator : RC Inst ID: S1.i
Smp Info : 71712004,230WS-DF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8452

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8452

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8452

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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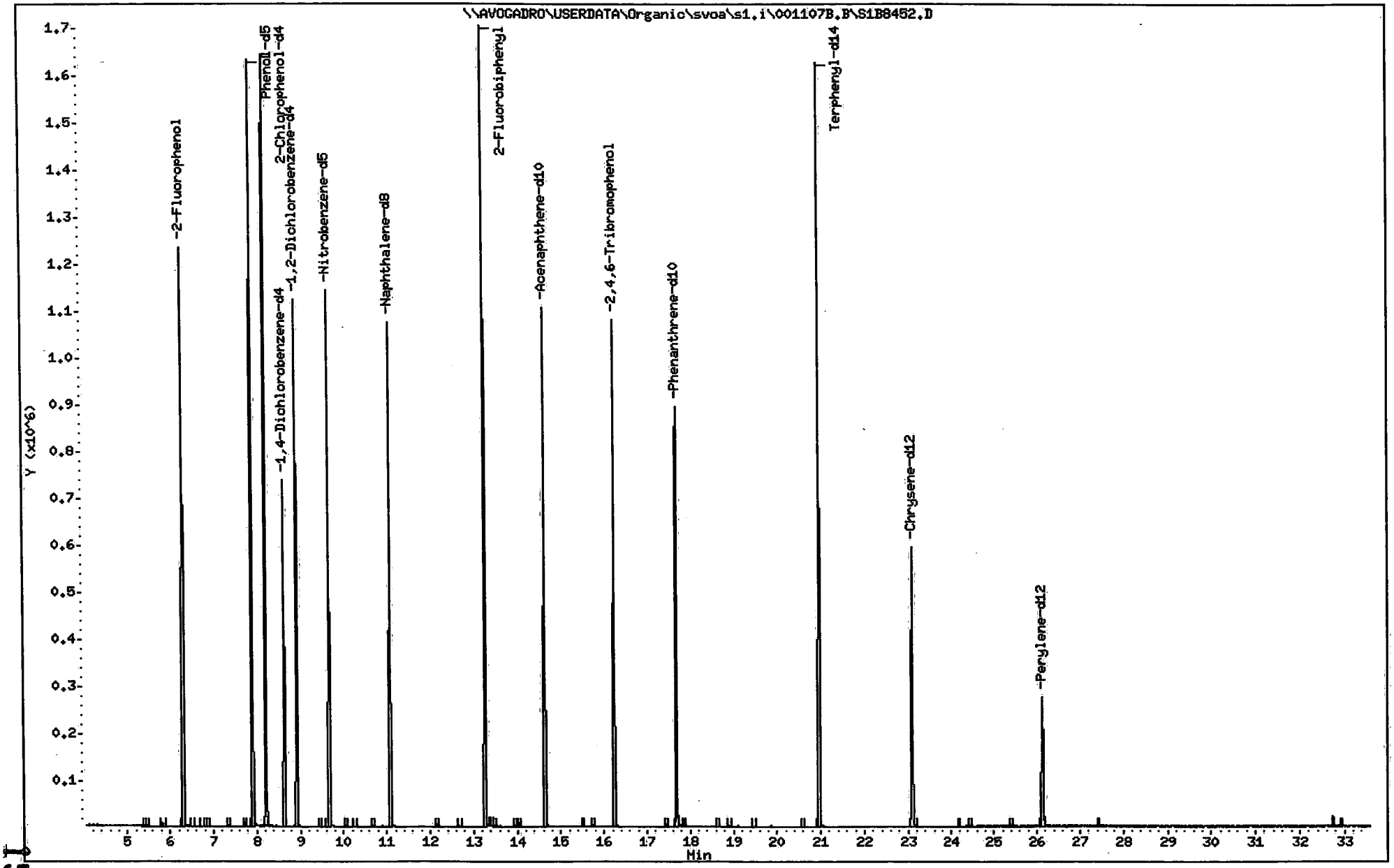
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8452.D
Date : 08-NOV-2000 02:52
Client ID: 230WS-EF
Sample Info: 71712003,230WS-EF,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: S1.i
Operator: RC
Column diameter: 0.25



Data File: S1B8452.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8452.D
Lab Smp Id: 71712003 Client Smp ID: 230WS-EF
Inj Date : 08-NOV-2000 02:52
Operator : RC Inst ID: S1.i
Smp Info : 71712003,230WS-EF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.313	6.313	(0.731)	772761	108.594	54
$ 3 Phenol-d5	99	7.901	7.901	(0.915)	1070077	105.236	53
$ 6 2-Chlorophenol-d4	132	8.214	8.214	(0.951)	808970	105.796	53
* 8 1,4-Dichlorobenzene-d4	152	8.635	8.635	(1.000)	201325	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.927	8.927	(1.034)	288347	60.5963	30
$ 16 Nitrobenzene-d5	82	9.672	9.683	(0.872)	586953	69.8438	35
* 23 Naphthalene-d8	136	11.087	11.087	(1.000)	753892	40.0000	
$ 33 2-Fluorobiphenyl	172	13.269	13.269	(0.906)	888551	70.0454	35
* 41 Acenaphthene-d10	164	14.641	14.641	(1.000)	390548	40.0000	
$ 53 2,4,6-Tribromophenol	330	16.250	16.250	(0.919)	171811	116.893	58
* 58 Phenanthrene-d10	188	17.687	17.687	(1.000)	544810	40.0000	
$ 65 Terphenyl-d14	244	20.960	20.960	(0.908)	794139	91.5323	46
* 69 Chrysene-d12	240	23.087	23.098	(1.000)	318403	40.0000	
* 76 Perylene-d12	264	26.123	26.134	(1.000)	196850	40.0000	

11/8/00

Data File: S1B8452.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8452.D
Lab Smp Id: 71712003 Client Smp ID: 230WS-EF
Inj Date : 08-NOV-2000 02:52
Operator : RC Inst ID: S1.i
Smp Info : 71712003,230WS-EF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8448

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U J
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U J
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8448

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

230WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8448

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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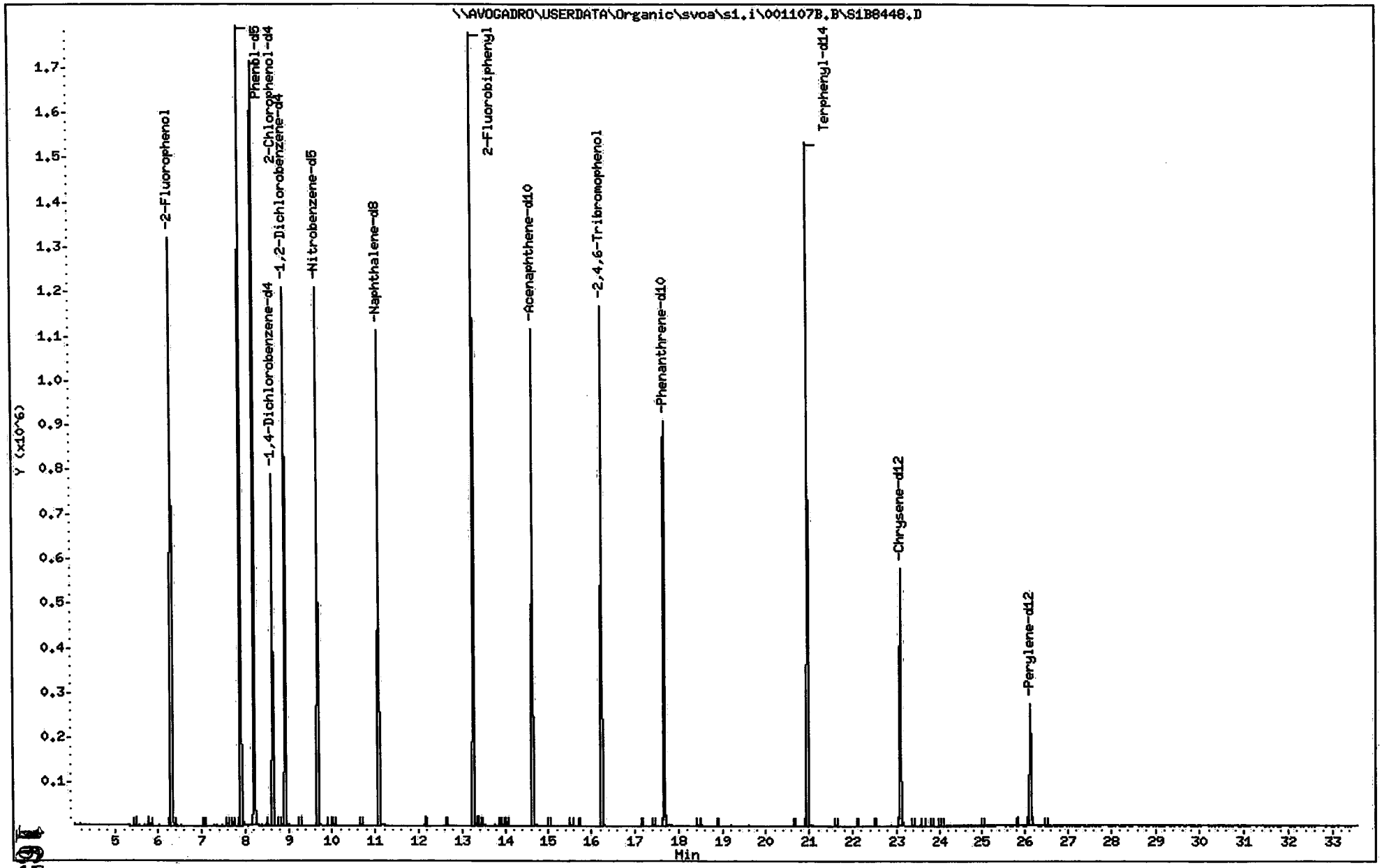
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8448.D
Date : 08-NOV-2000 00:02
Client ID: 230WS-IF
Sample Info: 71712001,230WS-IF,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: S1.i
Operator: RC
Column diameter: 0.25



Data File: S1B8448.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8448.D
Lab Smp Id: 71712001 Client Smp ID: 230WS-IF
Inj Date : 08-NOV-2000 00:02
Operator : RC Inst ID: S1.i
Smp Info : 71712001,230WS-IF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.311	6.313	(0.731)	835355	113.183	57
$ 3 Phenol-d5	99	7.899	7.901	(0.915)	1161373	110.121	55
$ 6 2-Chlorophenol-d4	132	8.212	8.214	(0.951)	869610	109.651	55
* 8 1,4-Dichlorobenzene-d4	152	8.633	8.635	(1.000)	208808	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.925	8.927	(1.034)	317254	64.2819	32
$ 16 Nitrobenzene-d5	82	9.670	9.683	(0.872)	620731	71.9123	36
* 23 Naphthalene-d8	136	11.085	11.087	(1.000)	774344	40.0000	
$ 33 2-Fluorobiphenyl	172	13.267	13.269	(0.906)	920922	71.6990	36
* 41 Acenaphthene-d10	164	14.639	14.641	(1.000)	395441	40.0000	
$ 53 2,4,6-Tribromophenol	330	16.249	16.250	(0.919)	191825	129.201	65
* 58 Phenanthrene-d10	188	17.685	17.687	(1.000)	550330	40.0000	
$ 65 Terphenyl-d14	244	20.958	20.960	(0.907)	775478	87.3159	44
* 69 Chrysene-d12	240	23.097	23.098	(1.000)	325935	40.0000	
* 76 Perylene-d12	264	26.132	26.134	(1.000)	197418	40.0000	

ag 11/8/00

Data File: S1B8448.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8448.D
Lab Smp Id: 71712001 Client Smp ID: 230WS-IF
Inj Date : 08-NOV-2000 00:02
Operator : RC Inst ID: S1.i
Smp Info : 71712001,230WS-IF,S1025-BW1,RC,,71712
Misc Info : ,,,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Instrument ID: S1 Calibration Date(s): 11/07/00 11/07/00

Calibration Time(s): 1438 1733

LAB FILE ID: RRF20 = S1B8442 RRF50 = S1B8438
RRF80 = S1B8441 RRF120= S1B8440 RRF160= S1B8439

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Benzaldehyde		1.148	1.244	1.260	1.122	1.167	1.188	5.1
Phenol	*	1.964	2.182	2.078	2.016	2.002	2.048	4.2*
bis(2-Chloroethyl)Ether	*	1.670	1.792	1.702	1.615	1.595	1.675	4.6*
2-Chlorophenol	*	1.410	1.457	1.443	1.398	1.365	1.415	2.6*
2-Methylphenol	*	1.336	1.390	1.409	1.377	1.363	1.375	2.0*
2,2'-oxybis(1-Chloropropane)		2.859	3.098	2.804	2.712	2.776	2.850	5.2
Acetophenone		1.982	2.029	2.017	1.865	1.747	1.928	6.2
4-Methylphenol	*	1.397	1.418	1.461	1.423	1.367	1.413	2.4*
N-Nitroso-di-n-propylamine	*	1.000	1.057	0.990	0.934	0.907	0.978	6.0*
Hexachloroethane	*	0.597	0.643	0.630	0.598	0.596	0.613	3.6*
Nitrobenzene	*	0.403	0.423	0.406	0.389	0.400	0.404	3.1*
Isophorone	*	0.840	0.885	0.846	0.805	0.818	0.839	3.6*
2-Nitrophenol	*	0.227	0.232	0.244	0.232	0.235	0.234	2.7*
2,4-Dimethylphenol	*	0.268	0.176	0.277	0.264	0.269	0.251	16.8*
bis(2-Chloroethoxy)methane	*	0.532	0.541	0.530	0.498	0.498	0.520	3.9*
2,4-Dichlorophenol	*	0.280	0.284	0.297	0.278	0.287	0.285	2.7*
Naphthalene	*	1.043	1.030	0.978	0.912	0.897	0.972	6.8*
4-Chloroaniline		0.140	0.135	0.138	0.089	0.127	0.126	17.0
Hexachlorobutadiene		0.140	0.142	0.149	0.145	0.147	0.145	2.5
Caprolactam		0.127	0.135	0.139	0.134	0.135	0.134	3.2
4-Chloro-3-Methylphenol	*	0.290	0.286	0.295	0.283	0.281	0.287	2.0*
2-Methylnaphthalene	*	0.625	0.613	0.605	0.563	0.555	0.592	5.2*
Hexachlorocyclopentadiene		0.204	0.135	0.275	0.294	0.304	0.242	29.5
2,4,6-Trichlorophenol	*	0.374	0.363	0.384	0.374	0.372	0.373	2.0*
2,4,5-Trichlorophenol	*		0.384	0.390	0.389	0.385	0.387	0.8*
1,1'-Biphenyl		1.449	1.466	1.388	1.335	1.306	1.389	5.0
2-Chloronaphthalene	*	1.119	1.134	1.092	1.080	1.062	1.097	2.7*
2-Nitroaniline			0.440	0.408	0.411	0.423	0.421	3.5
Dimethylphthalate		1.331	1.358	1.312	1.291	1.279	1.314	2.4
2,6-Dinitrotoluene	*	0.320	0.345	0.338	0.336	0.338	0.335	2.8*
Acenaphthylene	*	1.715	1.755	1.668	1.597	1.557	1.658	4.9*
3-Nitroaniline			0.331	0.336	0.355	0.333	0.339	3.2
Acenaphthene	*	1.120	1.143	1.083	1.032	1.002	1.076	5.5*
2,4-Dinitrophenol			0.178	0.203	0.214	0.222	0.204	9.5
4-Nitrophenol			0.116	0.118	0.120	0.122	0.119	2.4
Dibenzofuran	*	1.593	1.599	1.541	1.483	1.463	1.536	4.0*

* 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.: 71712

Instrument ID: S1 Calibration Date(s): 11/07/00 11/07/00

Calibration Time(s): 1438 1733

LAB FILE ID: RRF20 = S1B8442 RRF50 = S1B8438
RRF80 = S1B8441 RRF120= S1B8440 RRF160= S1B8439

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene	*	0.425	0.442	0.438	0.431	0.419	0.431	2.1*
Diethylphthalate		1.331	1.354	1.259	1.240	1.222	1.281	4.5
Fluorene	*	1.191	1.210	1.078	1.026	0.980	1.097	9.2*
4-Chlorophenyl-phenylether	*	0.527	0.545	0.512	0.507	0.502	0.519	3.4*
4-Nitroaniline			0.349	0.349	0.350	0.349	0.349	0.1
4,6-Dinitro-2-methylphenol			0.177	0.193	0.191	0.197	0.190	4.6
N-Nitrosodiphenylamine (1)		0.392	0.400	0.396	0.326	0.376	0.378	8.1
4-Bromophenyl-phenylether	*	0.193	0.202	0.211	0.210	0.212	0.206	4.0*
Hexachlorobenzene	*	0.214	0.221	0.229	0.234	0.234	0.226	3.9*
Atrazine		0.129	0.139	0.138	0.124	0.132	0.132	4.8
Pentachlorophenol	*		0.138	0.148	0.153	0.153	0.148	4.9*
Phenanthrene	*	1.137	1.163	1.104	1.075	1.044	1.105	4.3*
Anthracene	*	1.080	1.071	1.058	1.029	1.013	1.050	2.7*
Carbazole		0.993	1.053	0.983	0.971	0.933	0.987	4.4
Di-n-butylphthalate		1.493	1.544	1.434	1.372	1.295	1.428	6.9
Fluoranthene	*	1.043	1.070	1.020	1.005	0.954	1.018	4.3*
Pyrene	*	1.713	1.846	1.859	1.846	1.860	1.825	3.4*
Butylbenzylphthalate		0.883	0.961	0.955	0.935	0.963	0.939	3.6
3,3'-Dichlorobenzidine		0.207	0.200	0.247	0.239	0.231	0.225	9.2
Benzo(a)anthracene	*	1.171	1.253	1.218	1.272	1.282	1.239	3.7*
Chrysene	*	1.099	1.181	1.141	1.135	1.139	1.139	2.6*
bis(2-Ethylhexyl)phthalate		1.117	1.185	1.131	1.068	1.085	1.117	4.1
Di-n-octylphthalate		2.589	2.881	2.998	2.970	3.137	2.915	7.0
Benzo(b)fluoranthene	*	1.463	1.613	1.644	1.570	1.659	1.590	4.9*
Benzo(k)fluoranthene	*	1.462	1.698	1.621	1.621	1.751	1.631	6.7*
Benzo(a)pyrene	*	1.172	1.332	1.299	1.276	1.352	1.286	5.5*
Indeno(1,2,3-cd)pyrene	*	0.740	0.954	0.843	0.842	0.842	0.844	9.0*
Dibenzo(a,h)anthracene	*	0.703	0.859	0.818	0.806	0.811	0.799	7.3*
Benzo(g,h,i)perylene	*	0.730	0.937	0.810	0.790	0.792	0.812	9.4*
Nitrobenzene-d5	*	0.427	0.458	0.442	0.422	0.433	0.436	3.3*
2-Fluorobiphenyl	*	1.285	1.309	1.258	1.218	1.211	1.256	3.4*
Terphenyl-d14	*	1.006	1.071	1.118	1.119	1.153	1.093	5.2*
Phenol-d5	*	1.894	2.147	2.078	2.029	2.042	2.038	4.5*
2-Fluorophenol	*	1.367	1.471	1.478	1.453	1.466	1.447	3.1*
2,4,6-Tribromophenol		0.100	0.109	0.119	0.122	0.125	0.115	8.7
2-Chlorophenol-d4	*	1.495	1.549	1.524	1.486	1.465	1.504	2.2*
1,2-Dichlorobenzene-d4	*	0.930	0.980	0.948	0.896	0.892	0.929	4.0*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8442.D

Date : 07-NOV-2000 17:33

Client ID: SSTD0101Y

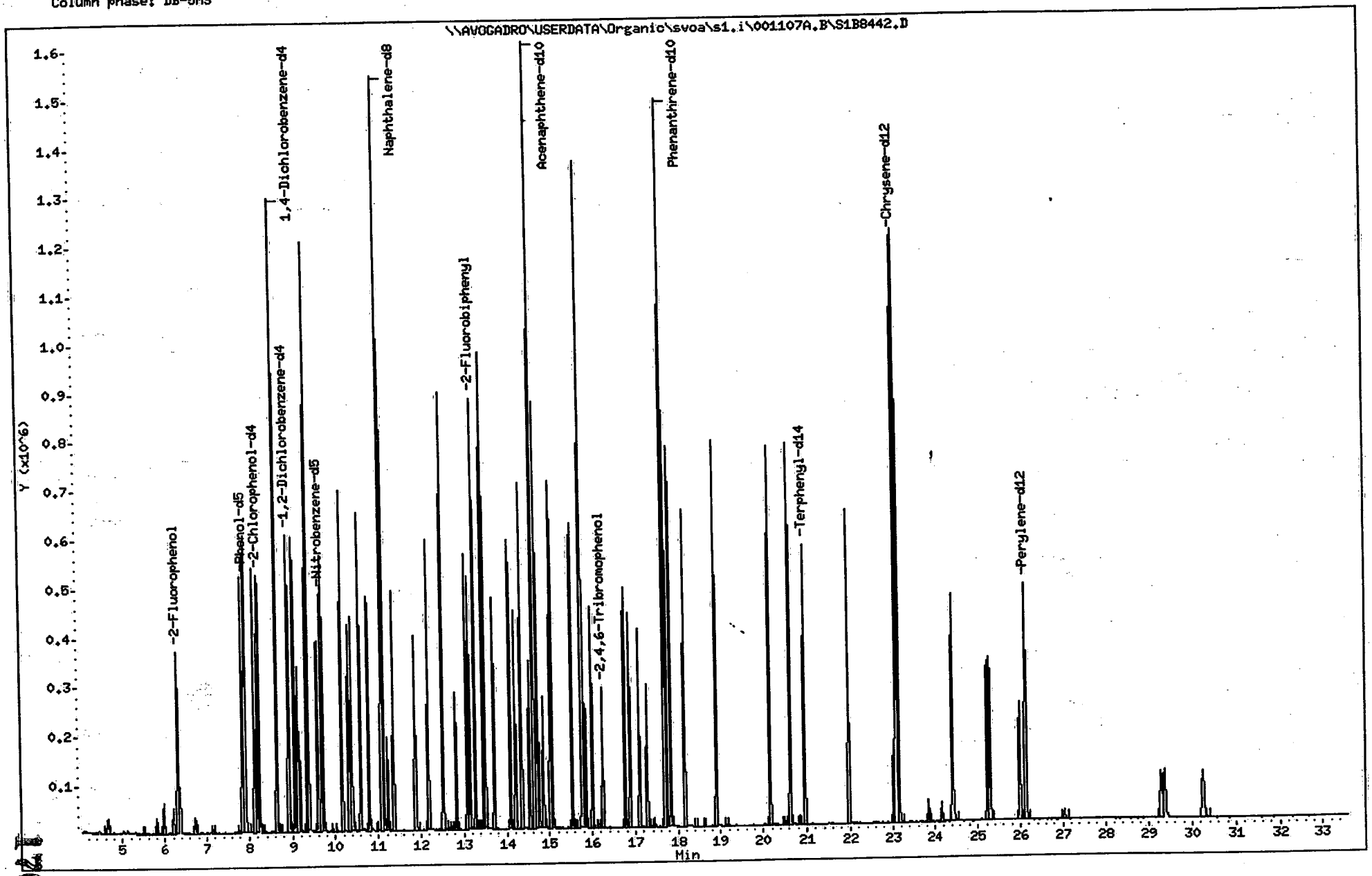
Sample Info: SS1107E,SSTD0101Y

Instrument: S1.i

Operator: QY

Column diameter: 0.25

Column phase: DB-5MS



Data File: S1B8442.D
Report Date: 08-Nov-2000 09:18

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8442.D
Lab Smp Id: SS1107E Client Smp ID: SSTD0101Y
Inj Date : 07-NOV-2000 17:33
Operator : QY Inst ID: S1.i
Smp Info : SS1107E,SSTD0101Y
Misc Info : 1,1,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:14 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 14:38 Cal File: S1B8438.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	6.321	6.321	(0.731)	226811	20.0000	19
	2 Benzaldehyde	77	7.844	7.854	(0.908)	190394	20.0000	19
$	3 Phenol-d5	99	7.909	7.909	(0.915)	314189	20.0000	19
	4 Phenol	94	7.931	7.930	(0.918)	325781	20.0000	19
	5 bis(2-Chloroethyl)Ether	93	8.136	8.135	(0.941)	277006	20.0000	20
$	6 2-Chlorophenol-d4	132	8.211	8.211	(0.950)	248025	20.0000	20
	7 2-Chlorophenol	128	8.244	8.243	(0.954)	233959	20.0000	20
*	8 1,4-Dichlorobenzene-d4	152	8.643	8.643	(1.000)	331788	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	8.924	8.924	(1.032)	154258	20.0000	20
	10 2-Methylphenol	108	9.054	9.064	(1.047)	221662	20.0000	19
	11 2,2'-oxybis(1-Chloropropane)	45	9.140	9.140	(1.057)	474268	20.0000	20(M)
	12 Acetophenone	105	9.389	9.388	(1.086)	328804	20.0000	21
	13 N-Nitroso-di-n-propylamine	70	9.378	9.377	(1.085)	165912	20.0000	20
	14 4-Methylphenol	108	9.345	9.345	(1.081)	231782	20.0000	20
	15 Hexachloroethane	117	9.594	9.604	(1.110)	99066	20.0000	19
$	16 Nitrobenzene-d5	82	9.680	9.680	(0.872)	268148	20.0000	20
	17 Nitrobenzene	77	9.713	9.712	(0.875)	252703	20.0000	20
	18 Isophorone	82	10.166	10.177	(0.916)	527310	20.0000	20
	19 2-Nitrophenol	139	10.328	10.328	(0.931)	142240	20.0000	19
	20 2,4-Dimethylphenol	107	10.393	10.393	(0.937)	167955	20.0000	21
	21 bis(2-Chloroethoxy)methane	93	10.598	10.598	(0.955)	333588	20.0000	20
	22 2,4-Dichlorophenol	162	10.793	10.792	(0.973)	175721	20.0000	20
*	23 Naphthalene-d8	136	11.095	11.095	(1.000)	1255061	40.0000	
	24 Naphthalene	128	11.128	11.138	(1.003)	654645	20.0000	21
	25 4-Chloroaniline	127	11.225	11.225	(1.012)	87556	20.0000	22
	26 Hexachlorobutadiene	225	11.376	11.376	(1.025)	88071	20.0000	19

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Data File: S1B8442.D
Report Date: 08-Nov-2000 09:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.873	11.894	(1.070)	79639	20.0000	19
	28 4-Chloro-3-Methylphenol	107	12.186	12.186	(1.098)	182067	20.0000	20
	29 2-Methylnaphthalene	142	12.521	12.521	(1.129)	391893	20.0000	21
	30 Hexachlorocyclopentadiene	237	12.834	12.834	(0.876)	65843	20.0000	17
	31 2,4,6-Trichlorophenol	196	13.083	13.082	(0.893)	120423	20.0000	20
	32 2,4,5-Trichlorophenol	196	13.148	13.147	(0.898)	125549	20.0000	20
$	33 2-Fluorobiphenyl	172	13.266	13.266	(0.906)	414219	20.0000	20
	34 1,1'-Biphenyl	154	13.472	13.471	(0.920)	467008	20.0000	21
	35 2-Chloronaphthalene	162	13.515	13.514	(0.923)	360610	20.0000	20
	36 2-Nitroaniline	65	13.709	13.709	(0.936)	129751	20.0000	19
	37 Dimethylphthalate	163	14.087	14.098	(0.962)	428989	20.0000	20
	38 2,6-Dinitrotoluene	165	14.217	14.217	(0.971)	103147	20.0000	19
	39 Acenaphthylene	152	14.357	14.357	(0.980)	552812	20.0000	21
	40 3-Nitroaniline	138	14.541	14.551	(0.993)	97371	20.0000	18
*	41 Acenaphthene-d10	164	14.649	14.649	(1.000)	644602	40.0000	
	42 Acenaphthene	153	14.714	14.713	(1.004)	360966	20.0000	21
	43 2,4-Dinitrophenol	184	14.757	14.767	(1.007)	42932	20.0000	13
	44 4-Nitrophenol	109	14.865	14.865	(1.015)	33052	20.0000	17
	45 2,4-Dinitrotoluene	165	15.027	15.037	(1.026)	137008	20.0000	20
	46 Dibenzofuran	168	15.059	15.070	(1.028)	513422	20.0000	21
	47 Diethylphthalate	149	15.546	15.545	(1.061)	428876	20.0000	21
	48 Fluorene	166	15.762	15.772	(1.076)	383976	20.0000	22
	49 4-Chlorophenyl-phenylether	204	15.772	15.772	(1.077)	169879	20.0000	20
	50 4-Nitroaniline	138	15.783	15.794	(1.077)	105008	20.0000	19
	51 4,6-Dinitro-2-methylphenol	198	15.859	15.858	(0.897)	73004	20.0000	17
	52 N-Nitrosodiphenylamine (1)	169	16.010	16.010	(0.905)	180059	20.0000	21
$	53 2,4,6-Tribromophenol	330	16.248	16.258	(0.919)	46140	20.0000	17
	54 4-Bromophenyl-phenylether	248	16.777	16.776	(0.949)	88447	20.0000	19
	55 Hexachlorobenzene	284	16.885	16.884	(0.955)	98356	20.0000	19
	56 Atrazine	200	17.112	17.111	(0.968)	59225	20.0000	19
	57 Pentachlorophenol	266	17.285	17.284	(0.977)	55322	20.0000	16
*	58 Phenanthrene-d10	188	17.684	17.695	(1.000)	918663	40.0000	
	59 Phenanthrene	178	17.738	17.738	(1.003)	522211	20.0000	21
	60 Anthracene	178	17.835	17.846	(1.009)	496198	20.0000	21
	61 Carbazole	167	18.170	18.170	(1.027)	456112	20.0000	20
	62 Di-n-butylphthalate	149	18.905	18.904	(1.069)	685755	20.0000	21
	63 Fluoranthene	202	20.169	20.179	(1.140)	479170	20.0000	20
	64 Pyrene	202	20.633	20.643	(0.893)	483367	20.0000	19
$	65 Terphenyl-d14	244	20.957	20.967	(0.907)	283952	20.0000	18
	66 Butylbenzylphthalate	149	21.972	21.972	(0.951)	249137	20.0000	19
	67 3,3'-Dichlorobenzidine	252	23.031	23.031	(0.997)	58290	20.0000	18
	68 Benzo(a)anthracene	228	23.074	23.085	(0.999)	330456	20.0000	19
*	69 Chrysene-d12	240	23.096	23.106	(1.000)	564342	40.0000	
	70 Chrysene	228	23.150	23.160	(1.002)	309966	20.0000	19
	71 bis(2-Ethylhexyl)phthalate	149	23.150	23.149	(1.002)	315249	20.0000	20
	72 Di-n-octylphthalate	149	24.414	24.413	(0.934)	438250	20.0000	18
	73 Benzo(b)fluoranthene	252	25.234	25.234	(0.966)	247628	20.0000	18

Data File: S1B8442.D
Report Date: 08-Nov-2000 09:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.288	25.299	(0.968)	247376	20.0000	18
75 Benzo(a)pyrene	252	25.991	26.001	(0.995)	198297	20.0000	18
* 76 Perylene-d12	264	26.131	26.141	(1.000)	338496	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.285	29.295	(1.121)	125303	20.0000	18
78 Dibenzo(a,h)anthracene	278	29.361	29.382	(1.124)	118920	20.0000	18
79 Benzo(g,h,i)perylene	276	30.246	30.257	(1.157)	123594	20.0000	18

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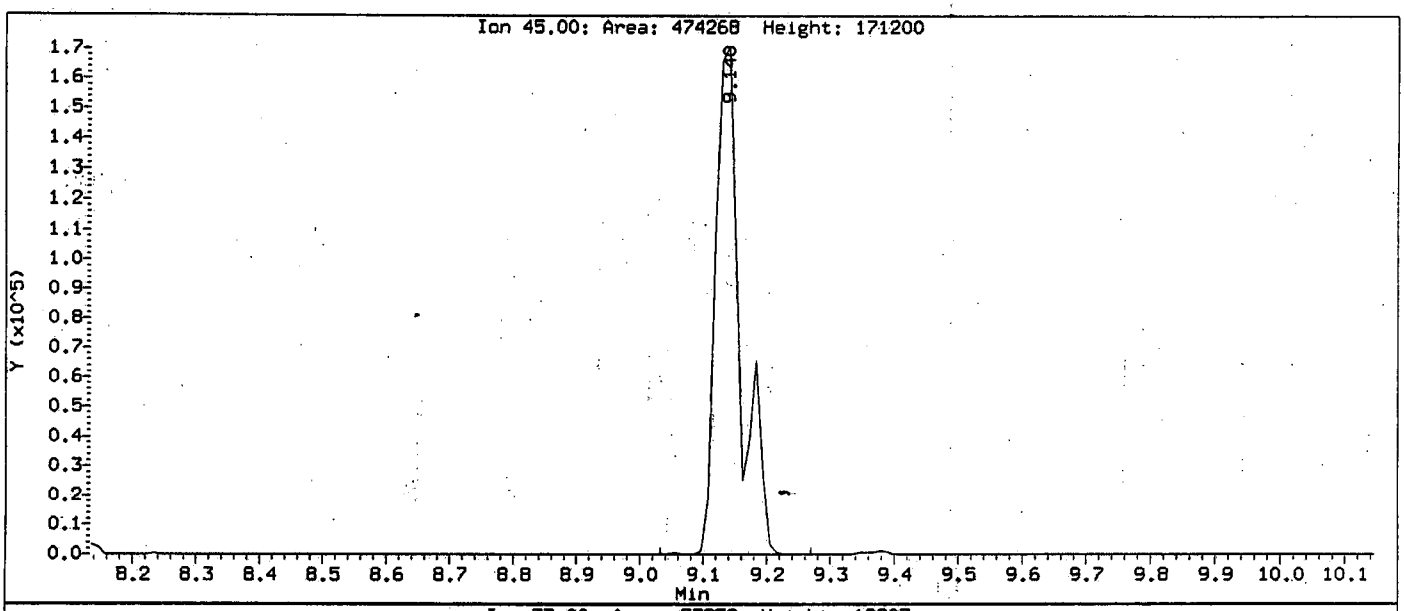
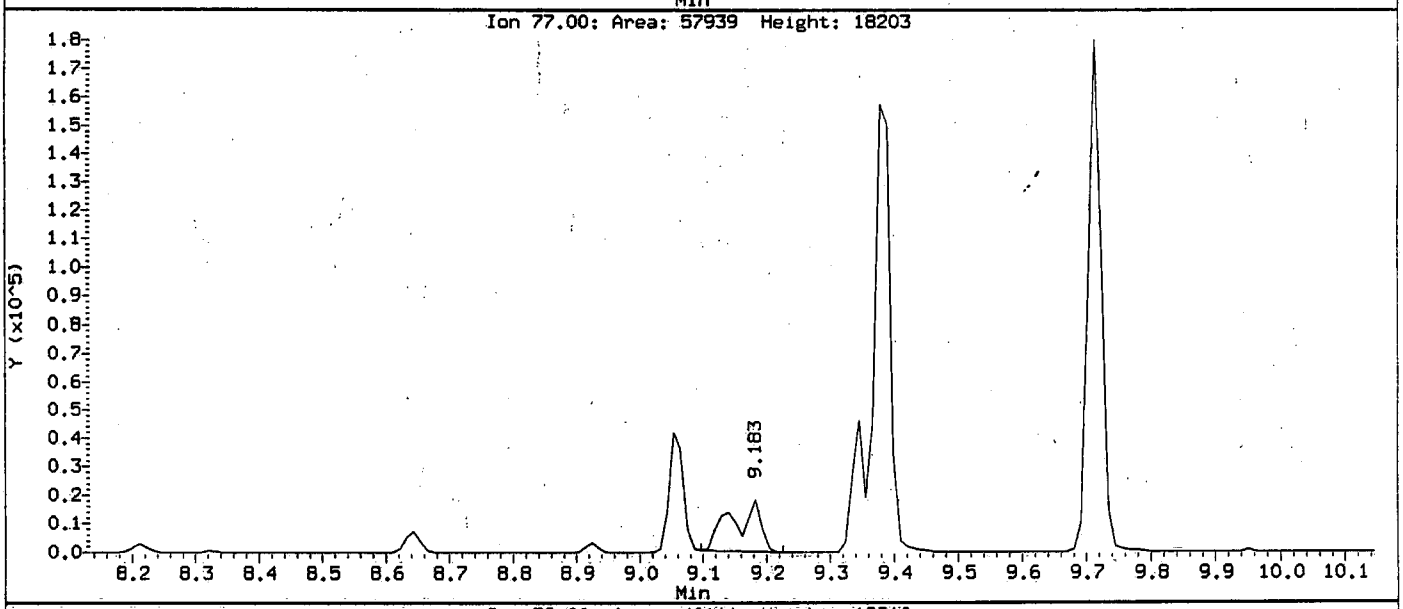
QC Flag Legend

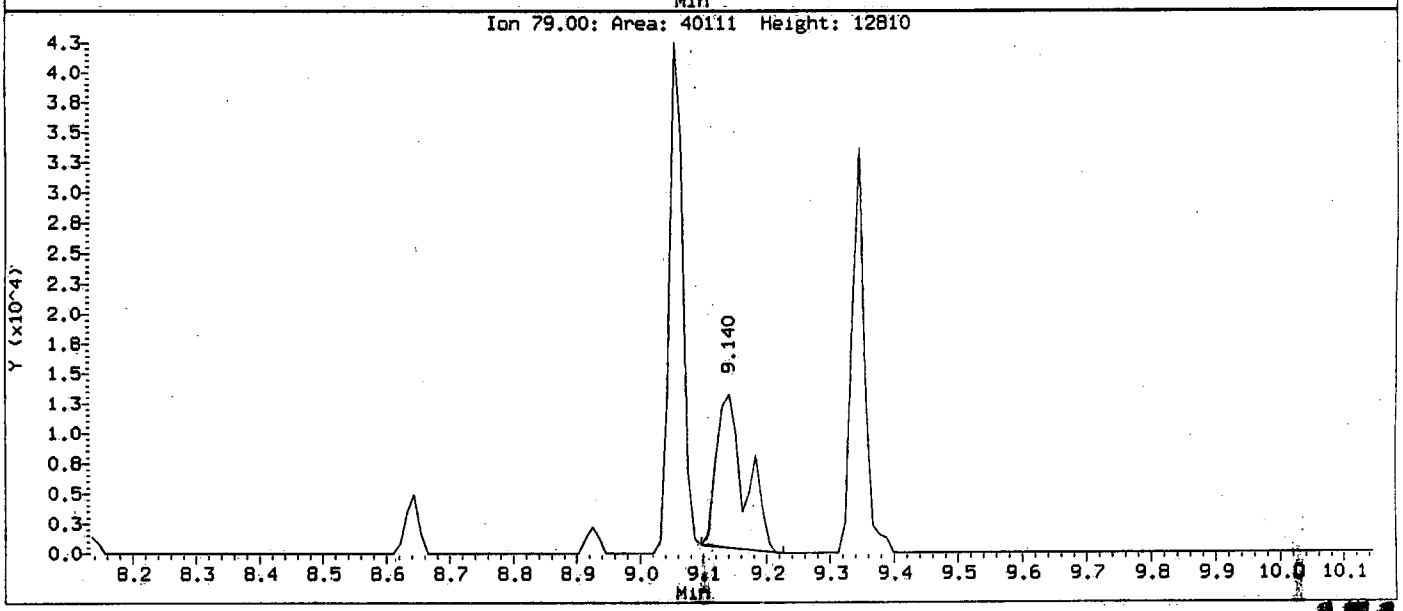
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8442.D
Injection Date: 07-NOV-2000 17:33
Instrument: S1.i
Client Sample ID: SSTD0101Y

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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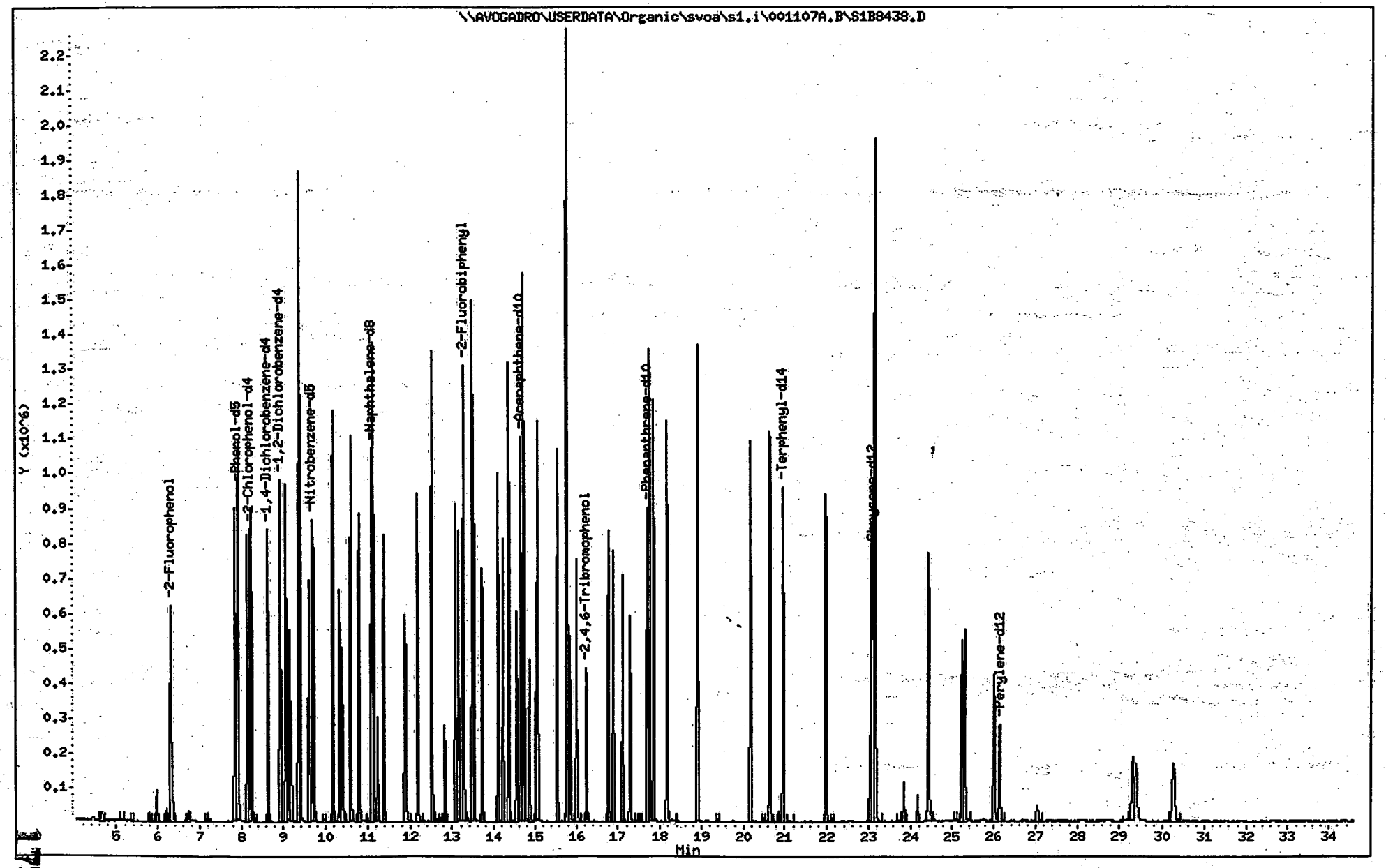
Date : 07-NOV-2000 14:38
Client ID: SSTD0501Y
Sample Info: SS1107A,SSTD0501Y

Instrument: S1.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S1B8438.D
Report Date: 07-Nov-2000 16:08

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8438.D
Lab Smp Id: SS1107A Client Smp ID: SSTD0501Y
Inj Date : 07-NOV-2000 14:38
Operator : QY Inst ID: S1.i
Smp Info : SS1107A,SSTD0501Y
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\s1_olm4_1.m
Meth Date : 07-Nov-2000 16:07 + Quant Type: ISTD
Cal Date : 07-NOV-2000 14:38 Cal File: S1B8438.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	6.321	6.321	(0.731)	377072	50.0000	50
2 Benzaldehyde	77	7.854	7.854	(0.909)	318931	50.0000	52
$ 3 Phenol-d5	99	7.909	7.909	(0.915)	550425	50.0000	51
4 Phenol	94	7.930	7.930	(0.918)	559438	50.0000	52
5 bis(2-Chloroethyl)Ether	93	8.135	8.135	(0.941)	459340	50.0000	53
$ 6 2-Chlorophenol-d4	132	8.211	8.211	(0.950)	397211	50.0000	51
7 2-Chlorophenol	128	8.243	8.243	(0.954)	373601	50.0000	52
* 8 1,4-Dichlorobenzene-d4	152	8.643	8.643	(1.000)	205117	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.924	8.924	(1.032)	251317	50.0000	52
10 2-Methylphenol	108	9.064	9.064	(1.049)	356409	50.0000	51
11 2,2'-oxybis(1-Chloropropane)	45	9.140	9.140	(1.057)	794339	50.0000	58(M)
12 Acetophenone	105	9.388	9.388	(1.086)	520251	50.0000	54
13 N-Nitroso-di-n-propylamine	70	9.377	9.377	(1.085)	270984	50.0000	54
14 4-Methylphenol	108	9.345	9.345	(1.081)	363638	50.0000	51
15 Hexachloroethane	117	9.604	9.604	(1.111)	164820	50.0000	52
$ 16 Nitrobenzene-d5	82	9.680	9.680	(0.872)	452269	50.0000	51
17 Nitrobenzene	77	9.712	9.712	(0.875)	417714	50.0000	51
18 Isophorone	82	10.177	10.177	(0.917)	872800	50.0000	52
19 2-Nitrophenol	139	10.328	10.328	(0.931)	228523	50.0000	50
20 2,4-Dimethylphenol	107	10.393	10.393	(0.937)	173631	50.0000	40
21 bis(2-Chloroethoxy)methane	93	10.598	10.598	(0.955)	533406	50.0000	52
22 2,4-Dichlorophenol	162	10.792	10.792	(0.973)	280504	50.0000	50
* 23 Naphthalene-d8	136	11.095	11.095	(1.000)	789323	40.0000	
24 Naphthalene	128	11.138	11.138	(1.004)	1015934	50.0000	53
25 4-Chloroaniline	127	11.225	11.225	(1.012)	133469	50.0000	52
26 Hexachlorobutadiene	225	11.376	11.376	(1.025)	139814	50.0000	49

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Data File: S1B8438.D
Report Date: 07-Nov-2000 16:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.894	11.894	(1.072)	133039	50.0000	50
	28 4-Chloro-3-Methylphenol	107	12.186	12.186	(1.098)	282139	50.0000	50
	29 2-Methylnaphthalene	142	12.521	12.521	(1.129)	604745	50.0000	52
	30 Hexachlorocyclopentadiene	237	12.834	12.834	(0.876)	66490	50.0000	31
	31 2,4,6-Trichlorophenol	196	13.082	13.082	(0.893)	178708	50.0000	49
	32 2,4,5-Trichlorophenol	196	13.147	13.147	(0.898)	189158	50.0000	50
$	33 2-Fluorobiphenyl	172	13.266	13.266	(0.906)	644495	50.0000	52
	34 1,1'-Biphenyl	154	13.471	13.471	(0.920)	721852	50.0000	53
	35 2-Chloronaphthalene	162	13.514	13.514	(0.923)	558498	50.0000	52
	36 2-Nitroaniline	65	13.709	13.709	(0.936)	216837	50.0000	51
	37 Dimethylphthalate	163	14.098	14.098	(0.962)	668362	50.0000	51
	38 2,6-Dinitrotoluene	165	14.217	14.217	(0.971)	170001	50.0000	51
	39 Acenaphthylene	152	14.357	14.357	(0.980)	864211	50.0000	53
	40 3-Nitroaniline	138	14.551	14.551	(0.993)	162969	50.0000	50
*	41 Acenaphthene-d10	164	14.649	14.649	(1.000)	393844	40.0000	
	42 Acenaphthene	153	14.713	14.713	(1.004)	562775	50.0000	53
	43 2,4-Dinitrophenol	184	14.767	14.767	(1.008)	87396	50.0000	44
	44 4-Nitrophenol	109	14.865	14.865	(1.015)	56930	50.0000	49
	45 2,4-Dinitrotoluene	165	15.037	15.037	(1.027)	217359	50.0000	51
	46 Dibenzofuran	168	15.070	15.070	(1.029)	787017	50.0000	52
	47 Diethylphthalate	149	15.545	15.545	(1.061)	666386	50.0000	53
	48 Fluorene	166	15.772	15.772	(1.077)	595495	50.0000	55
	49 4-Chlorophenyl-phenylether	204	15.772	15.772	(1.077)	268198	50.0000	52
	50 4-Nitroaniline	138	15.794	15.794	(1.078)	171746	50.0000	50
	51 4,6-Dinitro-2-methylphenol	198	15.858	15.858	(0.896)	123380	50.0000	47
	52 N-Nitrosodiphenylamine (1)	169	16.010	16.010	(0.905)	279370	50.0000	52
$	53 2,4,6-Tribromophenol	330	16.258	16.258	(0.919)	76208	50.0000	47
	54 4-Bromophenyl-phenylether	248	16.776	16.776	(0.948)	140853	50.0000	49
	55 Hexachlorobenzene	284	16.884	16.884	(0.954)	154030	50.0000	48
	56 Atrazine	200	17.111	17.111	(0.967)	97190	50.0000	51
	57 Pentachlorophenol	266	17.284	17.284	(0.977)	96147	50.0000	47
*	58 Phenanthrene-d10	188	17.695	17.695	(1.000)	558676	40.0000	
	59 Phenanthrene	178	17.738	17.738	(1.002)	812453	50.0000	53
	60 Anthracene	178	17.846	17.846	(1.009)	747818	50.0000	51
	61 Carbazole	167	18.170	18.170	(1.027)	735186	50.0000	53
	62 Di-n-butylphthalate	149	18.904	18.904	(1.068)	1078225	50.0000	54
	63 Fluoranthene	202	20.179	20.179	(1.140)	747451	50.0000	53
	64 Pyrene	202	20.643	20.643	(0.893)	778195	50.0000	50
$	65 Terphenyl-d14	244	20.967	20.967	(0.907)	451748	50.0000	48
	66 Butylbenzylphthalate	149	21.972	21.972	(0.951)	405300	50.0000	50
	67 3,3'-Dichlorobenzidine	252	23.031	23.031	(0.997)	84194	50.0000	46
	68 Benzo(a)anthracene	228	23.085	23.085	(0.999)	528486	50.0000	49
*	69 Chrysene-d12	240	23.106	23.106	(1.000)	337287	40.0000	
	70 Chrysene	228	23.160	23.160	(1.002)	498039	50.0000	51
	71 bis(2-Ethylhexyl)phthalate	149	23.149	23.149	(1.002)	499514	50.0000	52
	72 Di-n-octylphthalate	149	24.413	24.413	(0.934)	684135	50.0000	48
	73 Benzo(b)fluoranthene	252	25.234	25.234	(0.965)	382927	50.0000	49

Data File: S1B8438.D
Report Date: 07-Nov-2000 16:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.299	25.299	(0.968)	403190	50.0000	49
75 Benzo(a)pyrene	252	26.001	26.001	(0.995)	316330	50.0000	50
* 76 Perylene-d12	264	26.141	26.141	(1.000)	189941	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.295	29.295	(1.121)	226552	50.0000	53
78 Dibenzo(a,h)anthracene	278	29.382	29.382	(1.124)	204000	50.0000	51
79 Benzo(g,h,i)perylene	276	30.257	30.257	(1.157)	222500	50.0000	54

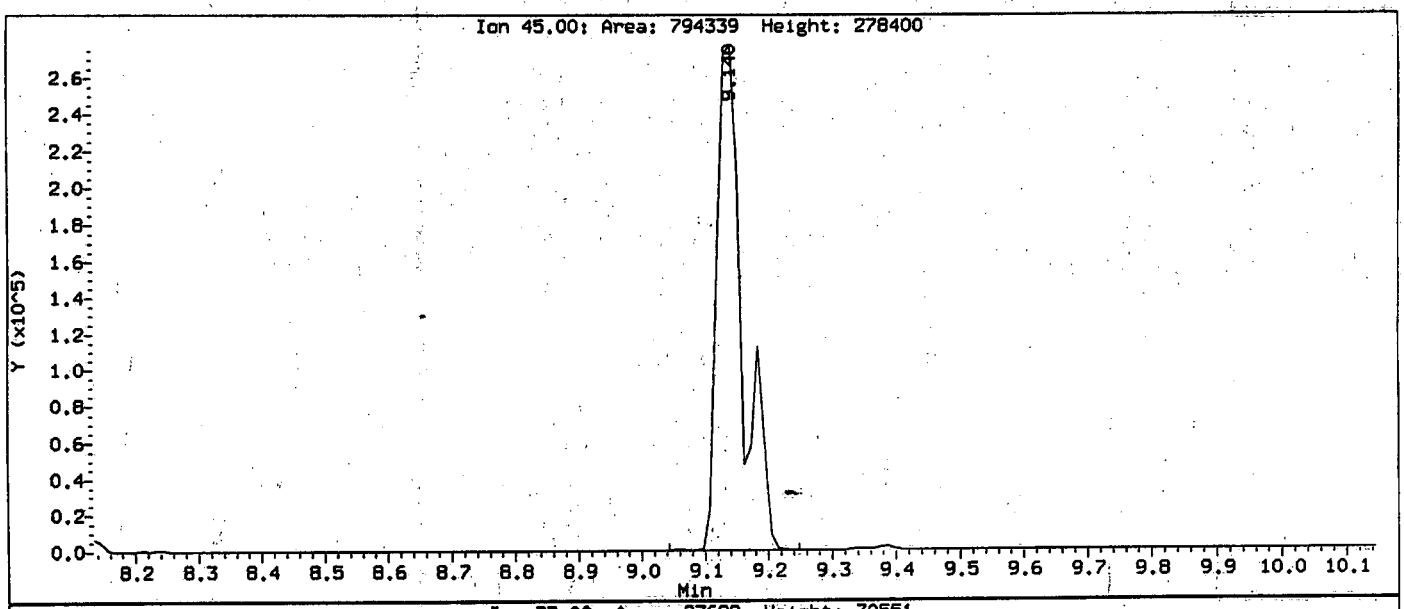
QC Flag Legend

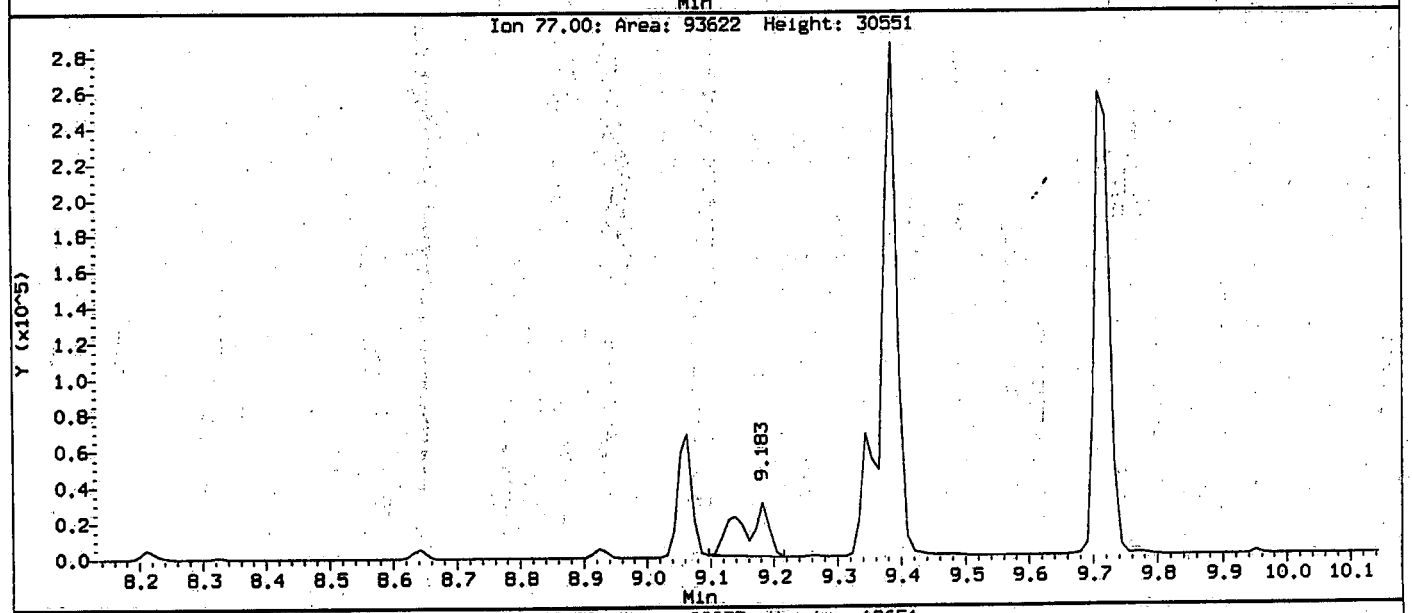
M - Compound response manually integrated.

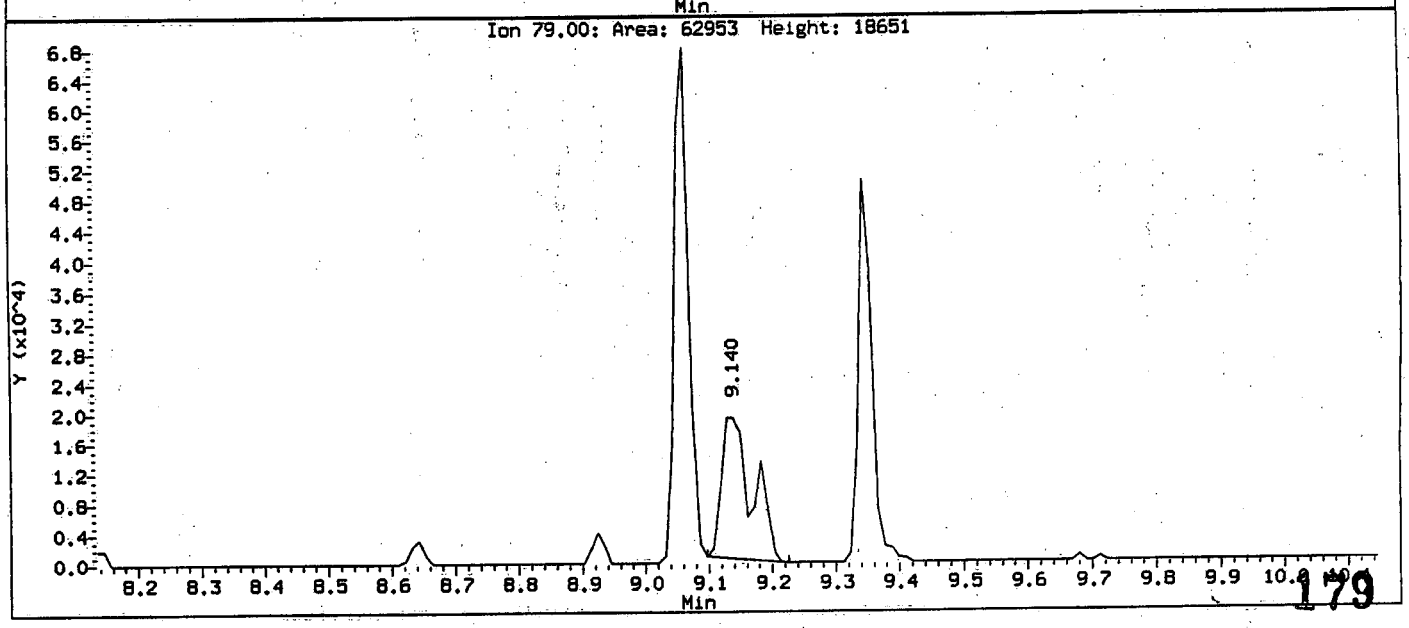
DY
11/8/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8438.D
Injection Date: 07-NOV-2000 14:38
Instrument: S1.i
Client Sample ID: SSTD0501Y

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







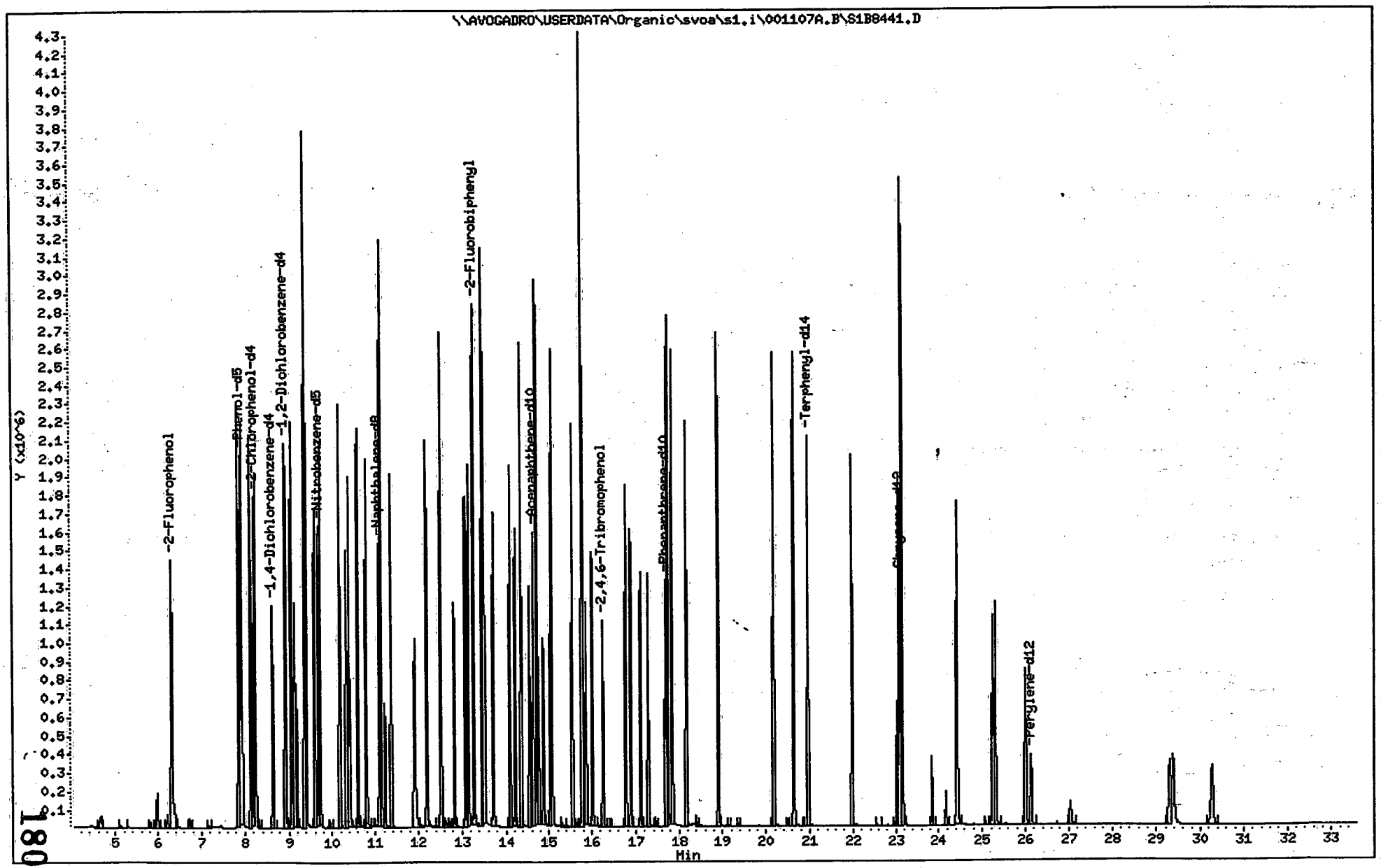
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8441.D
Date : 07-NOV-2000 16:50
Client ID: SSTD0801Y
Sample Info: SS1107D,SSTD0801Y

Instrument: S1.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S1B8441.D
Report Date: 08-Nov-2000 09:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8441.D
Lab Smp Id: SS1107D Client Smp ID: SSTD0801Y
Inj Date : 07-NOV-2000 16:50
Operator : QY Inst ID: S1.i
Smp Info : SS1107D,SSTD0801Y
Misc Info : 1,3,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:14 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 14:38 Cal File: S1B8438.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	6.320	6.321	(0.731)	900705	80.0000	82
2 Benzaldehyde	77	7.854	7.854	(0.909)	768085	80.0000	85
$ 3 Phenol-d5	99	7.919	7.909	(0.916)	1266364	80.0000	82
4 Phenol	94	7.940	7.930	(0.919)	1266489	80.0000	81
5 bis(2-Chloroethyl)Ether	93	8.146	8.135	(0.943)	1037493	80.0000	81
$ 6 2-Chlorophenol-d4	132	8.221	8.211	(0.951)	928549	80.0000	81
7 2-Chlorophenol	128	8.243	8.243	(0.954)	879215	80.0000	82
* 8 1,4-Dichlorobenzene-d4	152	8.643	8.643	(1.000)	304712	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.923	8.924	(1.032)	577814	80.0000	82
10 2-Methylphenol	108	9.064	9.064	(1.049)	858432	80.0000	82
11 2,2'-oxybis(1-Chloropropane)	45	9.139	9.140	(1.057)	1708776	80.0000	82(M)
12 Acetophenone	105	9.388	9.388	(1.086)	1229226	80.0000	84
13 N-Nitroso-di-n-propylamine	70	9.388	9.377	(1.086)	603480	80.0000	81
14 4-Methylphenol	108	9.355	9.345	(1.082)	890069	80.0000	83
15 Hexachloroethane	117	9.604	9.604	(1.111)	383998	80.0000	82
$ 16 Nitrobenzene-d5	82	9.690	9.680	(0.873)	1019890	80.0000	81
17 Nitrobenzene	77	9.723	9.712	(0.876)	936782	80.0000	80
18 Isophorone	82	10.176	10.177	(0.917)	1950939	80.0000	81
19 2-Nitrophenol	139	10.338	10.328	(0.932)	561608	80.0000	83
20 2,4-Dimethylphenol	107	10.392	10.393	(0.937)	638266	80.0000	88
21 bis(2-Chloroethoxy)methane	93	10.608	10.598	(0.956)	1223321	80.0000	82
22 2,4-Dichlorophenol	162	10.792	10.792	(0.973)	685855	80.0000	83
* 23 Naphthalene-d8	136	11.094	11.095	(1.000)	1153060	40.0000	
24 Naphthalene	128	11.138	11.138	(1.004)	2256525	80.0000	81
25 4-Chloroaniline	127	11.224	11.225	(1.012)	318464	80.0000	88
26 Hexachlorobutadiene	225	11.375	11.376	(1.025)	343750	80.0000	82

JD 11/8/00

Data File: S1B8441.D
Report Date: 08-Nov-2000 09:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.937	11.894	(1.076)	320127	80.0000	83
	28 4-Chloro-3-Methylphenol	107	12.196	12.186	(1.099)	681218	80.0000	82
	29 2-Methylnaphthalene	142	12.531	12.521	(1.129)	1394094	80.0000	82
	30 Hexachlorocyclopentadiene	237	12.834	12.834	(0.876)	327044	80.0000	91
	31 2,4,6-Trichlorophenol	196	13.093	13.082	(0.894)	456592	80.0000	82
	32 2,4,5-Trichlorophenol	196	13.158	13.147	(0.898)	464247	80.0000	81
$	33 2-Fluorobiphenyl	172	13.276	13.266	(0.906)	1496994	80.0000	80
	34 1,1'-Biphenyl	154	13.482	13.471	(0.920)	1651569	80.0000	80
	35 2-Chloronaphthalene	162	13.514	13.514	(0.923)	1299561	80.0000	80
	36 2-Nitroaniline	65	13.719	13.709	(0.937)	485177	80.0000	78
	37 Dimethylphthalate	163	14.108	14.098	(0.963)	1560316	80.0000	80
	38 2,6-Dinitrotoluene	165	14.227	14.217	(0.971)	402629	80.0000	81
	39 Acenaphthylene	152	14.357	14.357	(0.980)	1984113	80.0000	80
	40 3-Nitroaniline	138	14.562	14.551	(0.994)	399760	80.0000	79
*	41 Acenaphthene-d10	164	14.648	14.649	(1.000)	594790	40.0000	
	42 Acenaphthene	153	14.713	14.713	(1.004)	1287771	80.0000	80
	43 2,4-Dinitrophenol	184	14.767	14.767	(1.008)	242058	80.0000	80
	44 4-Nitrophenol	109	14.875	14.865	(1.015)	139973	80.0000	79
	45 2,4-Dinitrotoluene	165	15.048	15.037	(1.027)	520880	80.0000	81
	46 Dibenzofuran	168	15.069	15.070	(1.029)	1833232	80.0000	80
	47 Diethylphthalate	149	15.555	15.545	(1.062)	1497782	80.0000	79
	48 Fluorene	166	15.771	15.772	(1.077)	1282163	80.0000	79
	49 4-Chlorophenyl-phenylether	204	15.782	15.772	(1.077)	608862	80.0000	79
	50 4-Nitroaniline	138	15.815	15.794	(1.080)	415450	80.0000	80
	51 4,6-Dinitro-2-methylphenol	198	15.869	15.858	(0.897)	320910	80.0000	81
	52 N-Nitrosodiphenylamine (1)	169	16.020	16.010	(0.905)	658964	80.0000	84
$	53 2,4,6-Tribromophenol	330	16.258	16.258	(0.919)	198947	80.0000	83
	54 4-Bromophenyl-phenylether	248	16.787	16.776	(0.949)	350883	80.0000	82
	55 Hexachlorobenzene	284	16.895	16.884	(0.955)	380779	80.0000	81
	56 Atrazine	200	17.122	17.111	(0.968)	230553	80.0000	84
	57 Pentachlorophenol	266	17.284	17.284	(0.977)	246932	80.0000	80
*	58 Phenanthrene-d10	188	17.694	17.695	(1.000)	832968	40.0000	
	59 Phenanthrene	178	17.748	17.738	(1.003)	1838881	80.0000	80
	60 Anthracene	178	17.845	17.846	(1.009)	1762333	80.0000	81
	61 Carbazole	167	18.180	18.170	(1.027)	1638445	80.0000	80
	62 Di-n-butylphthalate	149	18.904	18.904	(1.068)	2389108	80.0000	80
	63 Fluoranthene	202	20.178	20.179	(1.140)	1699343	80.0000	80
	64 Pyrene	202	20.643	20.643	(0.893)	1740710	80.0000	81
$	65 Terphenyl-d14	244	20.967	20.967	(0.907)	1047100	80.0000	82
	66 Butylbenzylphthalate	149	21.982	21.972	(0.951)	893897	80.0000	81
	67 3,3'-Dichlorobenzidine	252	23.030	23.031	(0.997)	231205	80.0000	88
	68 Benzo(a)anthracene	228	23.084	23.085	(0.999)	1140033	80.0000	79
*	69 Chrysene-d12	240	23.106	23.106	(1.000)	468170	40.0000	
	70 Chrysene	228	23.160	23.160	(1.002)	1068760	80.0000	80
	71 bis(2-Ethylhexyl)phthalate	149	23.149	23.149	(1.002)	1059026	80.0000	81
	72 Di-n-octylphthalate	149	24.413	24.413	(0.934)	1584822	80.0000	82
	73 Benzo(b)fluoranthene	252	25.244	25.234	(0.966)	869069	80.0000	83

Data File: S1B8441.D
Report Date: 08-Nov-2000 09:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.309	25.299	(0.968)	856787	80.0000	80
75 Benzo(a)pyrene	252	26.011	26.001	(0.995)	686722	80.0000	81
* 76 Perylene-d12	264	26.141	26.141	(1.000)	264295	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.306	29.295	(1.121)	445604	80.0000	80
78 Dibenzo(a,h)anthracene	278	29.381	29.382	(1.124)	432224	80.0000	82
79 Benzo(g,h,i)perylene	276	30.278	30.257	(1.158)	428135	80.0000	80

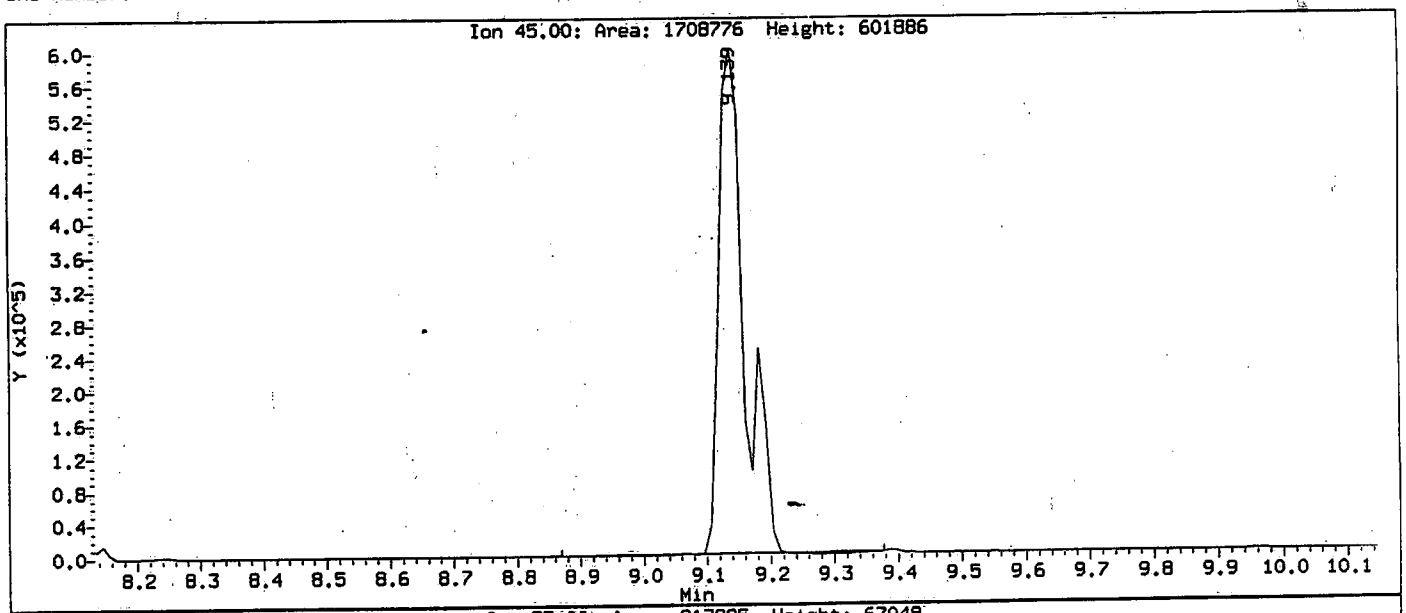
DY
11/8/00

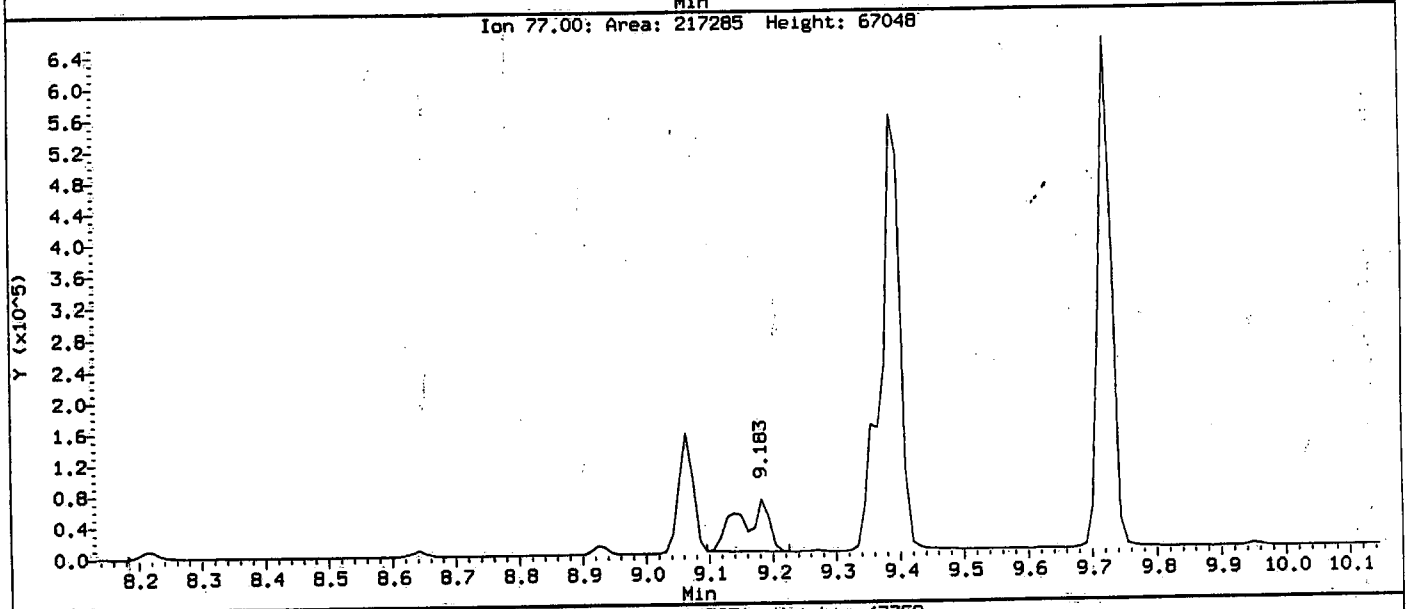
QC Flag Legend

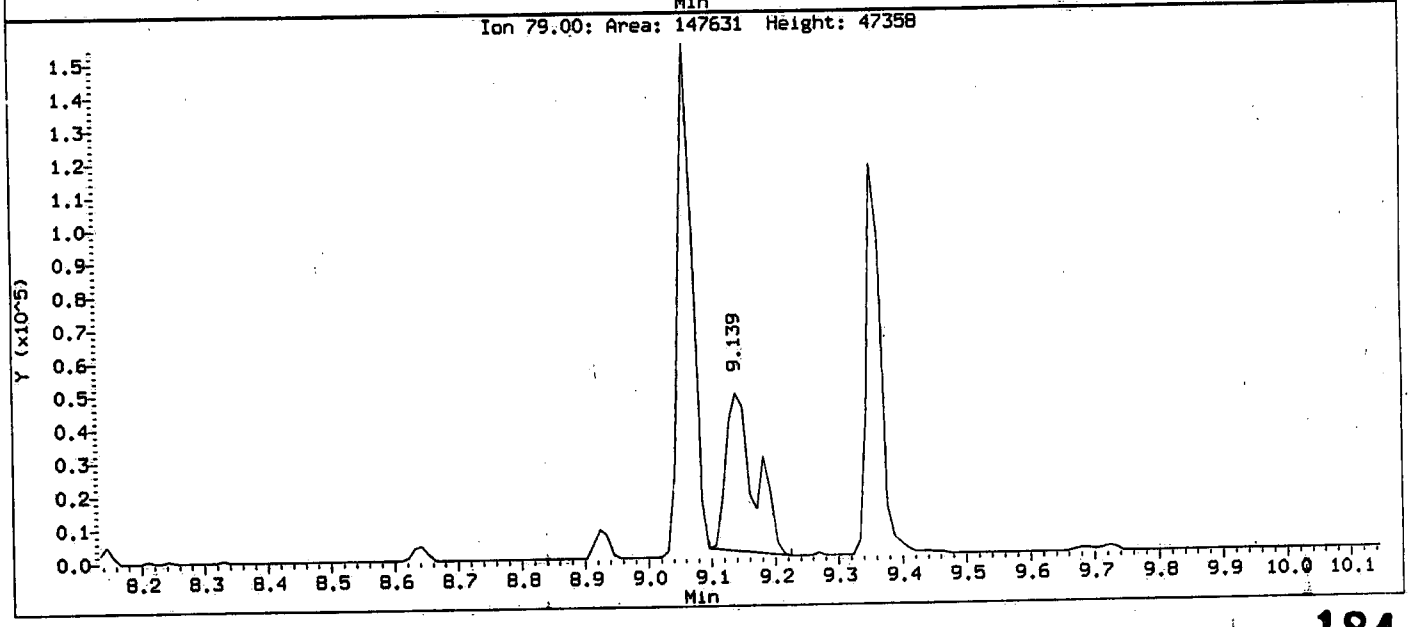
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8441.D
Injection Date: 07-NOV-2000 16:50
Instrument: S1.i
Client Sample ID: SSTD0801Y

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







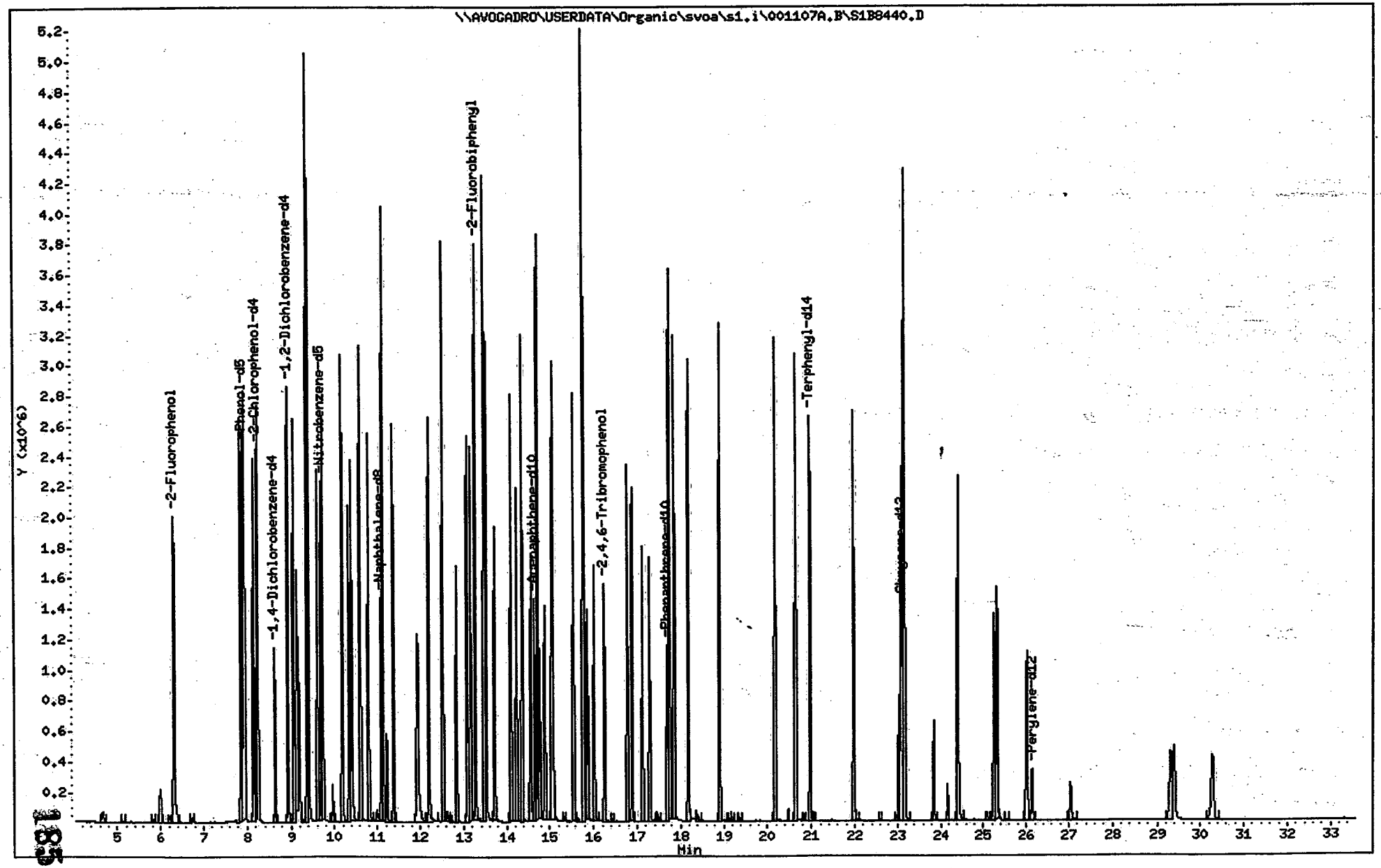
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8440.D
Date : 07-NOV-2000 16:07
Client ID: SSTD1201Y
Sample Info: SS1107C,SSTD1201Y

Instrument: S1.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S1B8440.D
Report Date: 07-Nov-2000 16:48

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8440.D
Lab Smp Id: SS1107C Client Smp ID: SSTD1201Y
Inj Date : 07-NOV-2000 16:07
Operator : QY Inst ID: S1.i
Smp Info : SS1107C,SSTD1201Y
Misc Info : 1,4,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\s1_olm4_1.m
Meth Date : 07-Nov-2000 16:47 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 14:38 Cal File: S1B8438.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	6.323	6.321	(0.731)	1257409	120.000	120
	2 Benzaldehyde	77	7.856	7.854	(0.909)	971053	120.000	110
$	3 Phenol-d5	99	7.921	7.909	(0.916)	1755866	120.000	120
	4 Phenol	94	7.954	7.930	(0.920)	1744249	120.000	120
	5 bis(2-Chloroethyl)Ether	93	8.159	8.135	(0.944)	1397427	120.000	120
$	6 2-Chlorophenol-d4	132	8.224	8.211	(0.951)	1285660	120.000	120
	7 2-Chlorophenol	128	8.256	8.243	(0.955)	1209885	120.000	120
*	8 1,4-Dichlorobenzene-d4	152	8.645	8.643	(1.000)	288396	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	8.937	8.924	(1.034)	775146	120.000	120
	10 2-Methylphenol	108	9.077	9.064	(1.050)	1191066	120.000	120
	11 2,2'-oxybis(1-Chloropropane)	45	9.142	9.140	(1.057)	2345981	120.000	110(M)
	12 Acetophenone	105	9.401	9.388	(1.087)	1613446	120.000	120
	13 N-Nitroso-di-n-propylamine	70	9.401	9.377	(1.087)	807692	120.000	120
	14 4-Methylphenol	108	9.369	9.345	(1.084)	1231353	120.000	120
	15 Hexachloroethane	117	9.606	9.604	(1.111)	517412	120.000	120
$	16 Nitrobenzene-d5	82	9.693	9.680	(0.873)	1371963	120.000	120
	17 Nitrobenzene	77	9.736	9.712	(0.877)	1263568	120.000	120
	18 Isophorone	82	10.190	10.177	(0.918)	2618299	120.000	120
	19 2-Nitrophenol	139	10.341	10.328	(0.932)	755234	120.000	120
	20 2,4-Dimethylphenol	107	10.406	10.393	(0.938)	858478	120.000	130
	21 bis(2-Chloroethoxy)methane	93	10.611	10.598	(0.956)	1620319	120.000	120
	22 2,4-Dichlorophenol	162	10.805	10.792	(0.974)	903170	120.000	120
*	23 Naphthalene-d8	136	11.097	11.095	(1.000)	1083610	40.0000	
	24 Naphthalene	128	11.140	11.138	(1.004)	2963707	120.000	120
	25 4-Chloroaniline	127	11.227	11.225	(1.012)	287831	120.000	91
	26 Hexachlorobutadiene	225	11.378	11.376	(1.025)	471895	120.000	120

JY 11/8/00

Data File: S1B8440.D
Report Date: 07-Nov-2000 16:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.950	11.894	(1.077)	434212	120.000	120
	28 4-Chloro-3-Methylphenol	107	12.210	12.186	(1.100)	918848	120.000	120
	29 2-Methylnaphthalene	142	12.534	12.521	(1.129)	1831202	120.000	120
	30 Hexachlorocyclopentadiene	237	12.847	12.834	(0.877)	472802	120.000	140
	31 2,4,6-Trichlorophenol	196	13.095	13.082	(0.894)	601350	120.000	120
	32 2,4,5-Trichlorophenol	196	13.160	13.147	(0.898)	624767	120.000	120
$	33 2-Fluorobiphenyl	172	13.279	13.266	(0.906)	1956874	120.000	120
	34 1,1'-Biphenyl	154	13.484	13.471	(0.920)	2144998	120.000	120
	35 2-Chloronaphthalene	162	13.527	13.514	(0.923)	1734324	120.000	120
	36 2-Nitroaniline	65	13.722	13.709	(0.937)	660864	120.000	120
	37 Dimethylphthalate	163	14.111	14.098	(0.963)	2074029	120.000	120
	38 2,6-Dinitrotoluene	165	14.229	14.217	(0.971)	539097	120.000	120
	39 Acenaphthylene	152	14.370	14.357	(0.981)	2565035	120.000	120
	40 3-Nitroaniline	138	14.564	14.551	(0.994)	569546	120.000	130
*	41 Acenaphthene-d10	164	14.651	14.649	(1.000)	535460	40.0000	
	42 Acenaphthene	153	14.726	14.713	(1.005)	1658292	120.000	120
	43 2,4-Dinitrophenol	184	14.780	14.767	(1.009)	344021	120.000	130
	44 4-Nitrophenol	109	14.888	14.865	(1.016)	191999	120.000	120
	45 2,4-Dinitrotoluene	165	15.050	15.037	(1.027)	691590	120.000	120
	46 Dibenzofuran	168	15.083	15.070	(1.029)	2382087	120.000	120
	47 Diethylphthalate	149	15.558	15.545	(1.062)	1991192	120.000	120
	48 Fluorene	166	15.774	15.772	(1.077)	1647374	120.000	110
	49 4-Chlorophenyl-phenylether	204	15.785	15.772	(1.077)	814084	120.000	120
	50 4-Nitroaniline	138	15.828	15.794	(1.080)	561709	120.000	120
	51 4,6-Dinitro-2-methylphenol	198	15.882	15.858	(0.897)	427954	120.000	120
	52 N-Nitrosodiphenylamine (1)	169	16.022	16.010	(0.905)	729258	120.000	110
$	53 2,4,6-Tribromophenol	330	16.260	16.258	(0.919)	272692	120.000	120
	54 4-Bromophenyl-phenylether	248	16.789	16.776	(0.949)	469079	120.000	120
	55 Hexachlorobenzene	284	16.897	16.884	(0.955)	523355	120.000	120
	56 Atrazine	200	17.124	17.111	(0.968)	277933	120.000	110
	57 Pentachlorophenol	266	17.297	17.284	(0.977)	342477	120.000	120
*	58 Phenanthrene-d10	188	17.697	17.695	(1.000)	745920	40.0000	
	59 Phenanthrene	178	17.751	17.738	(1.003)	2405709	120.000	120
	60 Anthracene	178	17.859	17.846	(1.009)	2302197	120.000	120
	61 Carbazole	167	18.183	18.170	(1.027)	2173961	120.000	120
	62 Di-n-butylphthalate	149	18.906	18.904	(1.068)	3071295	120.000	120
	63 Fluoranthene	202	20.181	20.179	(1.140)	2248375	120.000	120
	64 Pyrene	202	20.645	20.643	(0.893)	2307917	120.000	120
$	65 Terphenyl-d14	244	20.970	20.967	(0.907)	1398571	120.000	120
	66 Butylbenzylphthalate	149	21.985	21.972	(0.951)	1168452	120.000	120
	67 3,3'-Dichlorobenzidine	252	23.043	23.031	(0.997)	299153	120.000	130
	68 Benzo(a)anthracene	228	23.087	23.085	(0.999)	1589989	120.000	120
*	69 Chrysene-d12	240	23.108	23.106	(1.000)	416739	40.0000	
	70 Chrysene	228	23.162	23.160	(1.002)	1419176	120.000	120
	71 bis(2-Ethylhexyl)phthalate	149	23.151	23.149	(1.002)	1335086	120.000	120
	72 Di-n-octylphthalate	149	24.415	24.413	(0.934)	2084072	120.000	120
	73 Benzo(b)fluoranthene	252	25.247	25.234	(0.966)	1101831	120.000	120

Data File: S1B8440.D
Report Date: 07-Nov-2000 16:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.312	25.299	(0.968)	1137404	120.000	120
75 Benzo(a)pyrene	252	26.014	26.001	(0.995)	895350	120.000	120
* 76 Perylene-d12	264	26.143	26.141	(1.000)	233916	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.308	29.295	(1.121)	590894	120.000	110
78 Dibenzo(a,h)anthracene	278	29.395	29.382	(1.124)	565864	120.000	120
79 Benzo(g,h,i)perylene	276	30.280	30.257	(1.158)	554404	120.000	110

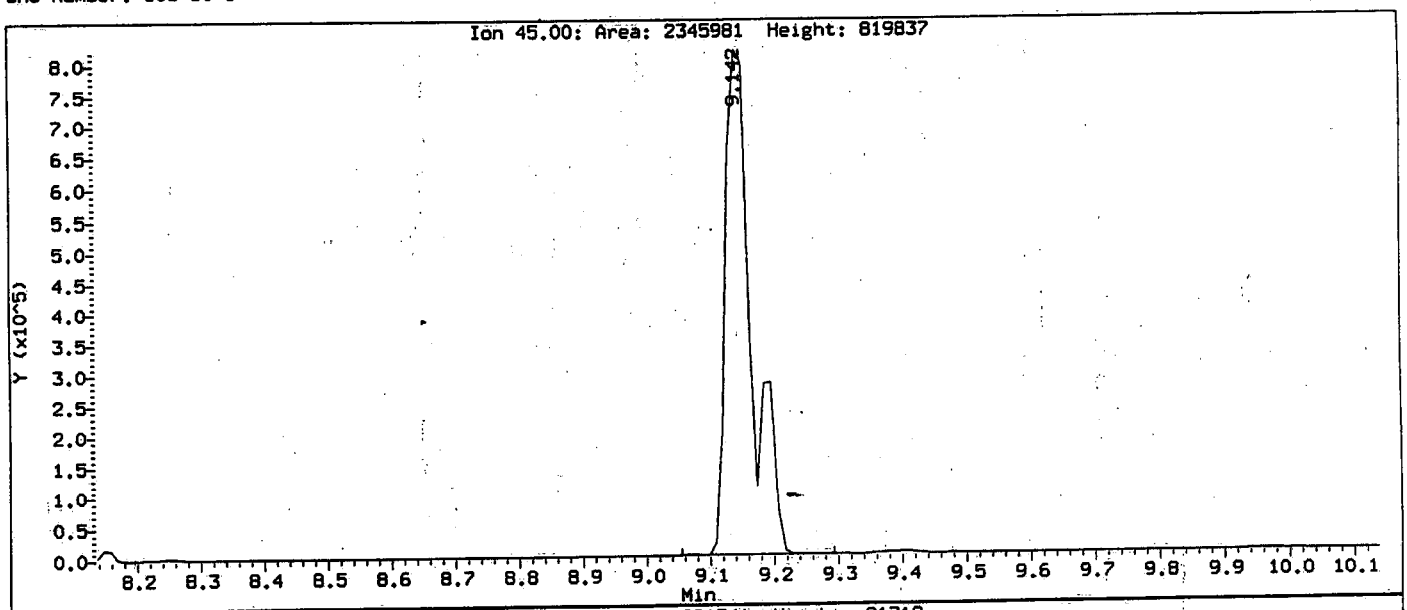
QC Flag Legend

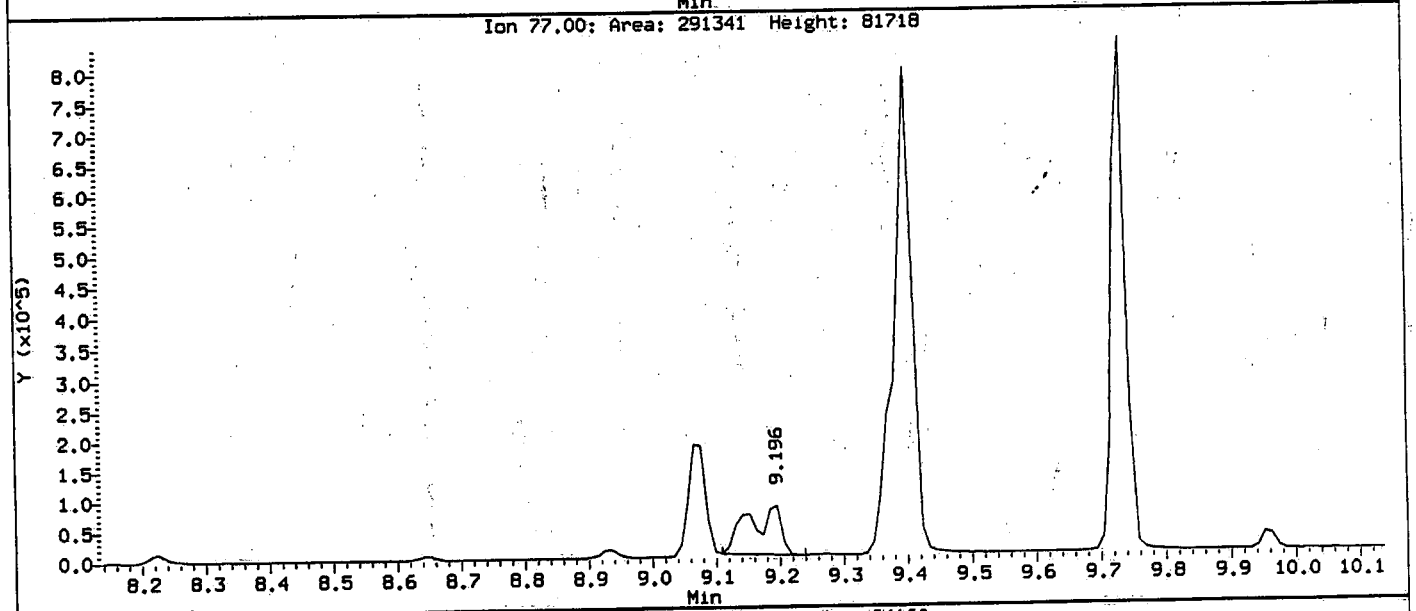
M - Compound response manually integrated.

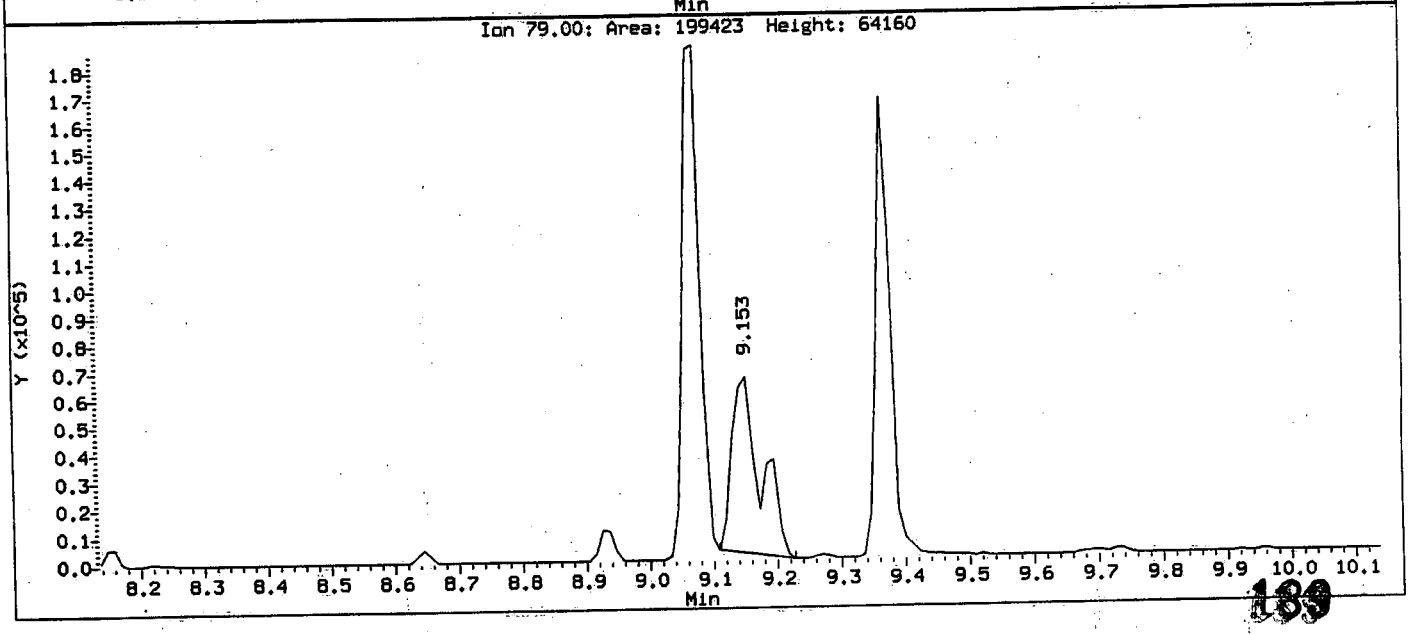
ay
11/8/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1BB440.D
Injection Date: 07-NOV-2000 16:07
Instrument: S1.i
Client Sample ID: SSTD1201Y

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1





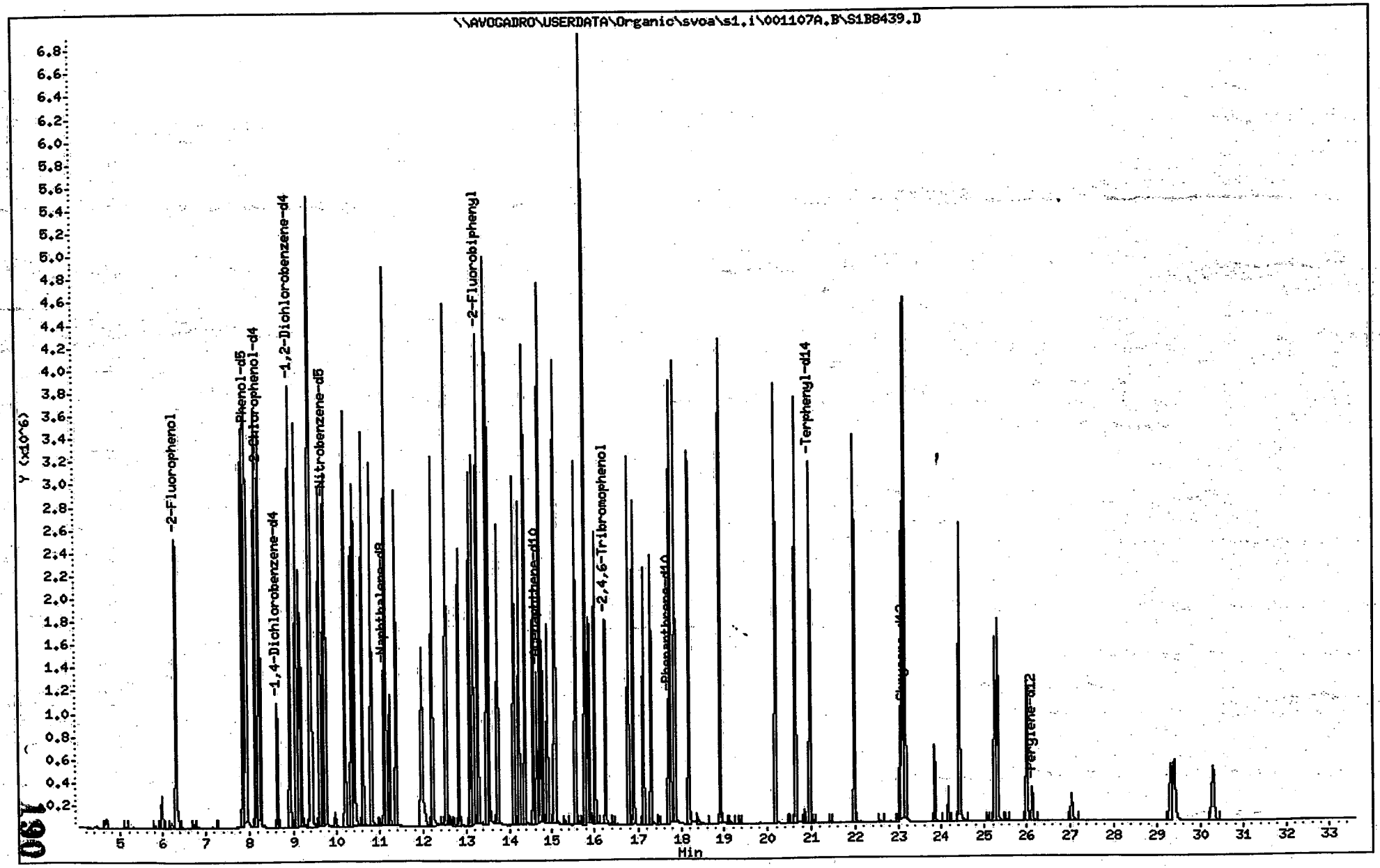


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8439.D
Date : 07-NOV-2000 15:23
Client ID: SSTD1601Y
Sample Info: SS1107B,SSTD1601Y

Instrument: S1.i

Operator: QY
Column diameter: 0.25

Column phase: DB-5MS



Data File: S1B8439.D
Report Date: 07-Nov-2000 16:08

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8439.D
Lab Smp Id: SS1107B Client Smp ID: SSTD1601Y
Inj Date : 07-NOV-2000 15:23
Operator : QY Inst ID: S1.i
Smp Info : SS1107B,SSTD1601Y
Misc Info : 1,5,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\s1_olm4_1.m
Meth Date : 07-Nov-2000 16:07 + Quant Type: ISTD
Cal Date : 07-NOV-2000 14:38 Cal File: S1B8438.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	6.332	6.321	(0.733)	1658495	160.000	160
	2 Benzaldehyde	77	7.866	7.854	(0.910)	1320243	160.000	150
$	3 Phenol-d5	99	7.931	7.909	(0.918)	2310630	160.000	160
	4 Phenol	94	7.952	7.930	(0.920)	2265064	160.000	150
	5 bis(2-Chloroethyl)Ether	93	8.158	8.135	(0.944)	1805138	160.000	150
$	6 2-Chlorophenol-d4	132	8.233	8.211	(0.953)	1657966	160.000	160
	7 2-Chlorophenol	128	8.255	8.243	(0.955)	1544536	160.000	150
*	8 1,4-Dichlorobenzene-d4	152	8.644	8.643	(1.000)	282854	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	8.935	8.924	(1.034)	1009278	160.000	150
	10 2-Methylphenol	108	9.076	9.064	(1.050)	1541599	160.000	160
	11 2,2'-oxybis(1-Chloropropane)	45	9.151	9.140	(1.059)	3141100	160.000	150(M)
	12 Acetophenone	105	9.411	9.388	(1.089)	1976935	160.000	150
	13 N-Nitroso-di-n-propylamine	70	9.421	9.377	(1.090)	1026531	160.000	150
	14 4-Methylphenol	108	9.378	9.345	(1.085)	1546826	160.000	160
	15 Hexachloroethane	117	9.605	9.604	(1.111)	673832	160.000	150
$	16 Nitrobenzene-d5	82	9.702	9.680	(0.874)	1807130	160.000	160
	17 Nitrobenzene	77	9.735	9.712	(0.877)	1668919	160.000	160
	18 Isophorone	82	10.199	10.177	(0.919)	3417190	160.000	150
	19 2-Nitrophenol	139	10.350	10.328	(0.933)	981390	160.000	160(A)
	20 2,4-Dimethylphenol	107	10.404	10.393	(0.938)	1122239	160.000	190(A)
	21 bis(2-Chloroethoxy)methane	93	10.620	10.598	(0.957)	2081098	160.000	150
	22 2,4-Dichlorophenol	162	10.804	10.792	(0.974)	1200687	160.000	160(A)
*	23 Naphthalene-d8	136	11.096	11.095	(1.000)	1044274	40.0000	
	24 Naphthalene	128	11.150	11.138	(1.005)	3746778	160.000	150
	25 4-Chloroaniline	127	11.236	11.225	(1.013)	530972	160.000	160
	26 Hexachlorobutadiene	225	11.387	11.376	(1.026)	613937	160.000	160(A)

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Data File: S1B8439.D
Report Date: 07-Nov-2000 16:08

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.981	11.894	(1.080)	564208	160.000	160(A)
	28 4-Chloro-3-Methylphenol	107	12.219	12.186	(1.101)	1175563	160.000	160
	29 2-Methylnaphthalene	142	12.532	12.521	(1.129)	2319549	160.000	150
	30 Hexachlorocyclopentadiene	237	12.845	12.834	(0.877)	623897	160.000	220(A)
	31 2,4,6-Trichlorophenol	196	13.094	13.082	(0.894)	763587	160.000	160(A)
	32 2,4,5-Trichlorophenol	196	13.169	13.147	(0.899)	789711	160.000	160(A)
$	33 2-Fluorobiphenyl	172	13.288	13.266	(0.907)	2485060	160.000	150
	34 1,1'-Biphenyl	154	13.493	13.471	(0.921)	2680324	160.000	150
	35 2-Chloronaphthalene	162	13.526	13.514	(0.923)	2180062	160.000	150
	36 2-Nitroaniline	65	13.731	13.709	(0.937)	867746	160.000	160
	37 Dimethylphthalate	163	14.120	14.098	(0.964)	2623969	160.000	160
	38 2,6-Dinitrotoluene	165	14.239	14.217	(0.972)	693659	160.000	160
	39 Acenaphthylene	152	14.368	14.357	(0.981)	3194542	160.000	150
	40 3-Nitroaniline	138	14.574	14.551	(0.995)	683097	160.000	160(A)
*	41 Acenaphthene-d10	164	14.649	14.649	(1.000)	513057	40.0000	
	42 Acenaphthene	153	14.725	14.713	(1.005)	2055636	160.000	150
	43 2,4-Dinitrophenol	184	14.779	14.767	(1.009)	455827	160.000	180(A)
	44 4-Nitrophenol	109	14.898	14.865	(1.017)	251107	160.000	160(A)
	45 2,4-Dinitrotoluene	165	15.060	15.037	(1.028)	860854	160.000	160
	46 Dibenzofuran	168	15.081	15.070	(1.029)	3003410	160.000	150
	47 Diethylphthalate	149	15.567	15.545	(1.063)	2508359	160.000	150
	48 Fluorene	166	15.783	15.772	(1.077)	2011982	160.000	140
	49 4-Chlorophenyl-phenylether	204	15.783	15.772	(1.077)	1029476	160.000	150
	50 4-Nitroaniline	138	15.837	15.794	(1.081)	716518	160.000	160(A)
	51 4,6-Dinitro-2-methylphenol	198	15.891	15.858	(0.898)	557683	160.000	170(A)
	52 N-Nitrosodiphenylamine (1)	169	16.021	16.010	(0.905)	1065776	160.000	160
$	53 2,4,6-Tribromophenol	330	16.269	16.258	(0.919)	352873	160.000	170(A)
	54 4-Bromophenyl-phenylether	248	16.788	16.776	(0.949)	601924	160.000	160(A)
	55 Hexachlorobenzene	284	16.896	16.884	(0.955)	663860	160.000	160(A)
	56 Atrazine	200	17.134	17.111	(0.968)	373995	160.000	160
	57 Pentachlorophenol	266	17.296	17.284	(0.977)	434024	160.000	170(A)
*	58 Phenanthrene-d10	188	17.695	17.695	(1.000)	708527	40.0000	
	59 Phenanthrene	178	17.760	17.738	(1.004)	2957765	160.000	150
	60 Anthracene	178	17.857	17.846	(1.009)	2869642	160.000	160
	61 Carbazole	167	18.181	18.170	(1.027)	2644075	160.000	150
	62 Di-n-butylphthalate	149	18.916	18.904	(1.069)	3669581	160.000	150
	63 Fluoranthene	202	20.190	20.179	(1.141)	2703098	160.000	150
	64 Pyrene	202	20.655	20.643	(0.893)	2772526	160.000	160(A)
$	65 Terphenyl-d14	244	20.979	20.967	(0.907)	1717857	160.000	170(A)
	66 Butylbenzylphthalate	149	21.983	21.972	(0.951)	1435548	160.000	160(A)
	67 3,3'-Dichlorobenzidine	252	23.042	23.031	(0.997)	344627	160.000	170(A)
	68 Benzo(a)anthracene	228	23.096	23.085	(0.999)	1910464	160.000	160(A)
*	69 Chrysene-d12	240	23.118	23.106	(1.000)	372555	40.0000	
	70 Chrysene	228	23.172	23.160	(1.002)	1697086	160.000	160
	71 bis(2-Ethylhexyl)phthalate	149	23.150	23.149	(1.001)	1616436	160.000	150
	72 Di-n-octylphthalate	149	24.424	24.413	(0.934)	2431564	160.000	170(A)
	73 Benzo(b)fluoranthene	252	25.256	25.234	(0.966)	1285793	160.000	160(A)

Data File: S1B8439.D
Report Date: 07-Nov-2000 16:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.321	25.299	(0.969)	1356987	160.000	160(A)
75 Benzo(a)pyrene	252	26.012	26.001	(0.995)	1048006	160.000	160(A)
* 76 Perylene-d12	264	26.142	26.141	(1.000)	193780	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.328	29.295	(1.122)	652910	160.000	150
78 Dibenzo(a,h)anthracene	278	29.393	29.382	(1.124)	628984	160.000	160
79 Benzo(g,h,i)perylene	276	30.290	30.257	(1.159)	613665	160.000	150

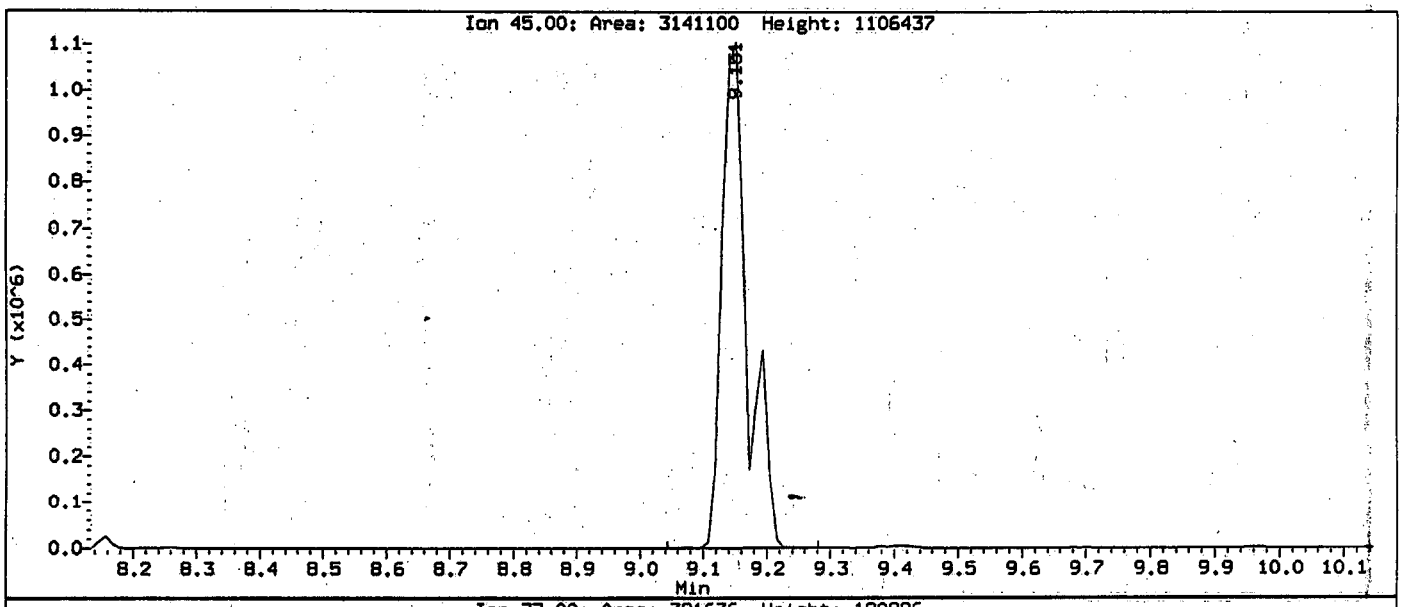
ay
11/8/00

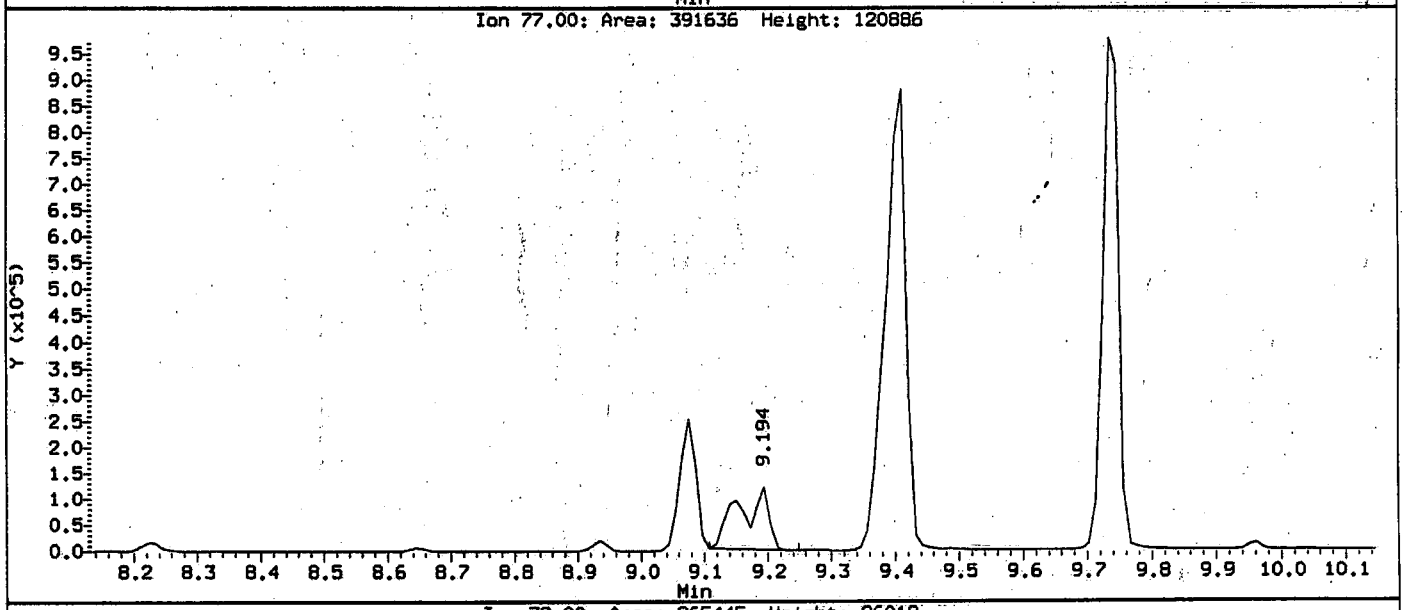
QC Flag Legend

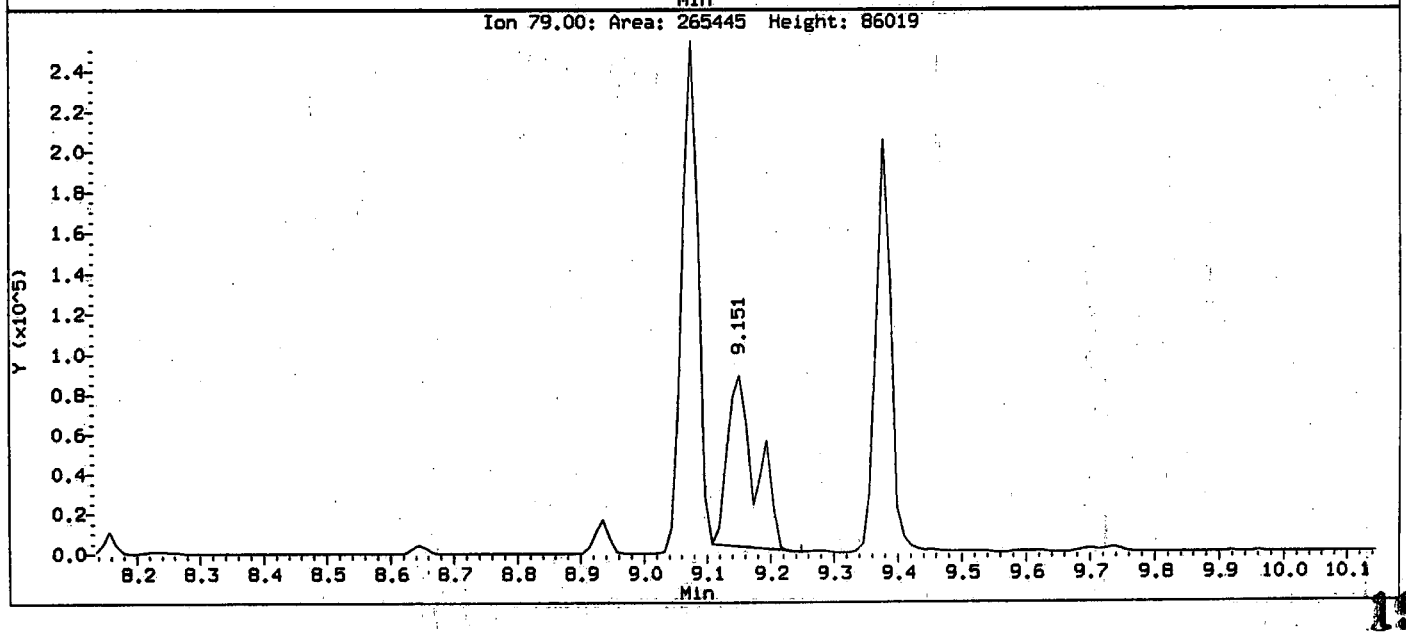
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8439.D
Injection Date: 07-NOV-2000 15:23
Instrument: S1.i
Client Sample ID: SSTD1601Y

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Instrument ID: S1 Calibration Date: 11/07/00 Time: 2029

Lab File ID: S1B8444 Init. Calib. Date(s): 11/07/00 11/07/00

EPA Sample No.(SSTD050##): SSTD0501Z Init. Calib. Times: 1438 1733

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	1.188	1.204		1.3	
Phenol	2.048	1.999	0.800	-2.4	25.0
bis(2-Chloroethyl)Ether	1.675	1.736	0.700	3.6	25.0
2-Chlorophenol	1.415	1.416	0.800	0.1	25.0
2-Methylphenol	1.375	1.322	0.700	-3.9	25.0
2,2'-oxybis(1-Chloropropane)	2.850	2.967		4.1	
Acetophenone	1.928	2.025		5.0	
4-Methylphenol	1.413	1.377	0.600	-2.5	25.0
N-Nitroso-di-n-propylamine	0.978	1.026	0.500	4.9	25.0
Hexachloroethane	0.613	0.624	0.300	1.8	25.0
Nitrobenzene	0.404	0.419	0.200	3.7	25.0
Isophorone	0.839	0.864	0.400	3.0	25.0
2-Nitrophenol	0.234	0.234	0.100	0.0	25.0
2,4-Dimethylphenol	0.251	0.168	0.200	-33.1	25.0
bis(2-Chloroethoxy)methane	0.520	0.551	0.300	6.0	25.0
2,4-Dichlorophenol	0.285	0.280	0.200	-1.8	25.0
Naphthalene	0.972	1.035	0.700	6.5	25.0
4-Chloroaniline	0.126	0.135		7.1	
Hexachlorobutadiene	0.145	0.142		-2.1	
Caprolactam	0.134	0.135		0.7	
4-Chloro-3-Methylphenol	0.287	0.282	0.200	-1.7	25.0
2-Methylnaphthalene	0.592	0.627	0.400	5.9	25.0
Hexachlorocyclopentadiene	0.242	0.131		-45.9	
2,4,6-Trichlorophenol	0.373	0.367	0.200	-1.6	25.0
2,4,5-Trichlorophenol	0.387	0.389	0.200	0.5	25.0
1,1'-Biphenyl	1.389	1.438		3.5	
2-Chloronaphthalene	1.097	1.111	0.800	1.3	25.0
2-Nitroaniline	0.421	0.416		-1.2	
Dimethylphthalate	1.314	1.343		2.2	
2,6-Dinitrotoluene	0.335	0.334	0.200	-0.3	25.0
Acenaphthylene	1.658	1.651	0.900	-0.4	25.0
3-Nitroaniline	0.339	0.320		-5.6	
Acenaphthene	1.076	1.117	0.900	3.8	25.0
2,4-Dinitrophenol	0.204	0.168		-17.6	
4-Nitrophenol	0.119	0.107		-10.1	
Dibenzofuran	1.536	1.577	0.800	2.7	25.0

<- C.C

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.: 71712

Instrument ID: S1 Calibration Date: 11/07/00 Time: 2029

Lab File ID: S1B8444 Init. Calib. Date(s): 11/07/00 11/07/00

EPA Sample No.(SSTD050##): SSTD0501Z Init. Calib. Times: 1438 1733

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.431	0.436	0.200	1.2	25.0
Diethylphthalate	1.281	1.311		2.3	
Fluorene	1.097	1.164	0.900	6.1	25.0
4-Chlorophenyl-phenylether	0.519	0.530	0.400	2.1	25.0
4-Nitroaniline	0.349	0.329		-5.7	
4,6-Dinitro-2-methylphenol	0.190	0.175		-7.9	
N-Nitrosodiphenylamine (1)	0.378	0.398		5.3	
4-Bromophenyl-phenylether	0.206	0.203	0.100	-1.5	25.0
Hexachlorobenzene	0.226	0.221	0.100	-2.2	25.0
Atrazine	0.132	0.138		4.5	
Pentachlorophenol	0.148	0.135	0.050	-8.8	25.0
Phenanthrene	1.105	1.144	0.700	3.5	25.0
Anthracene	1.050	1.058	0.700	0.8	25.0
Carbazole	0.987	1.007		2.0	
Di-n-butylphthalate	1.428	1.520		6.4	
Fluoranthene	1.018	1.044	0.600	2.6	25.0
Pyrene	1.825	1.832	0.600	0.4	25.0
Butylbenzylphthalate	0.939	0.977		4.0	
3,3'-Dichlorobenzidine	0.225	0.193		-14.2	
Benzo(a)anthracene	1.239	1.244	0.800	0.4	25.0
Chrysene	1.139	1.164	0.700	2.2	25.0
bis(2-Ethylhexyl)phthalate	1.117	1.177		5.4	
Di-n-octylphthalate	2.915	3.008		3.2	
Benzo(b)fluoranthene	1.590	1.597	0.700	0.4	25.0
Benzo(k)fluoranthene	1.631	1.723	0.700	5.6	25.0
Benzo(a)pyrene	1.286	1.323	0.700	2.9	25.0
Indeno(1,2,3-cd)pyrene	0.844	0.851	0.500	0.8	25.0
Dibenzo(a,h)anthracene	0.799	0.839	0.400	5.0	25.0
Benzo(g,h,i)perylene	0.812	0.849	0.500	4.6	25.0
Nitrobenzene-d5	0.436	0.446	0.200	2.3	25.0
2-Fluorobiphenyl	1.256	1.299	0.700	3.4	25.0
Terphenyl-d14	1.093	1.090	0.500	-0.3	25.0
Phenol-d5	2.038	2.020	0.800	-0.9	25.0
2-Fluorophenol	1.447	1.414	0.600	-2.3	25.0
2,4,6-Tribromophenol	0.115	0.108		-6.1	
2-Chlorophenol-d4	1.504	1.519	0.800	1.0	25.0
1,2-Dichlorobenzene-d4	0.929	0.945	0.500	1.7	25.0

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

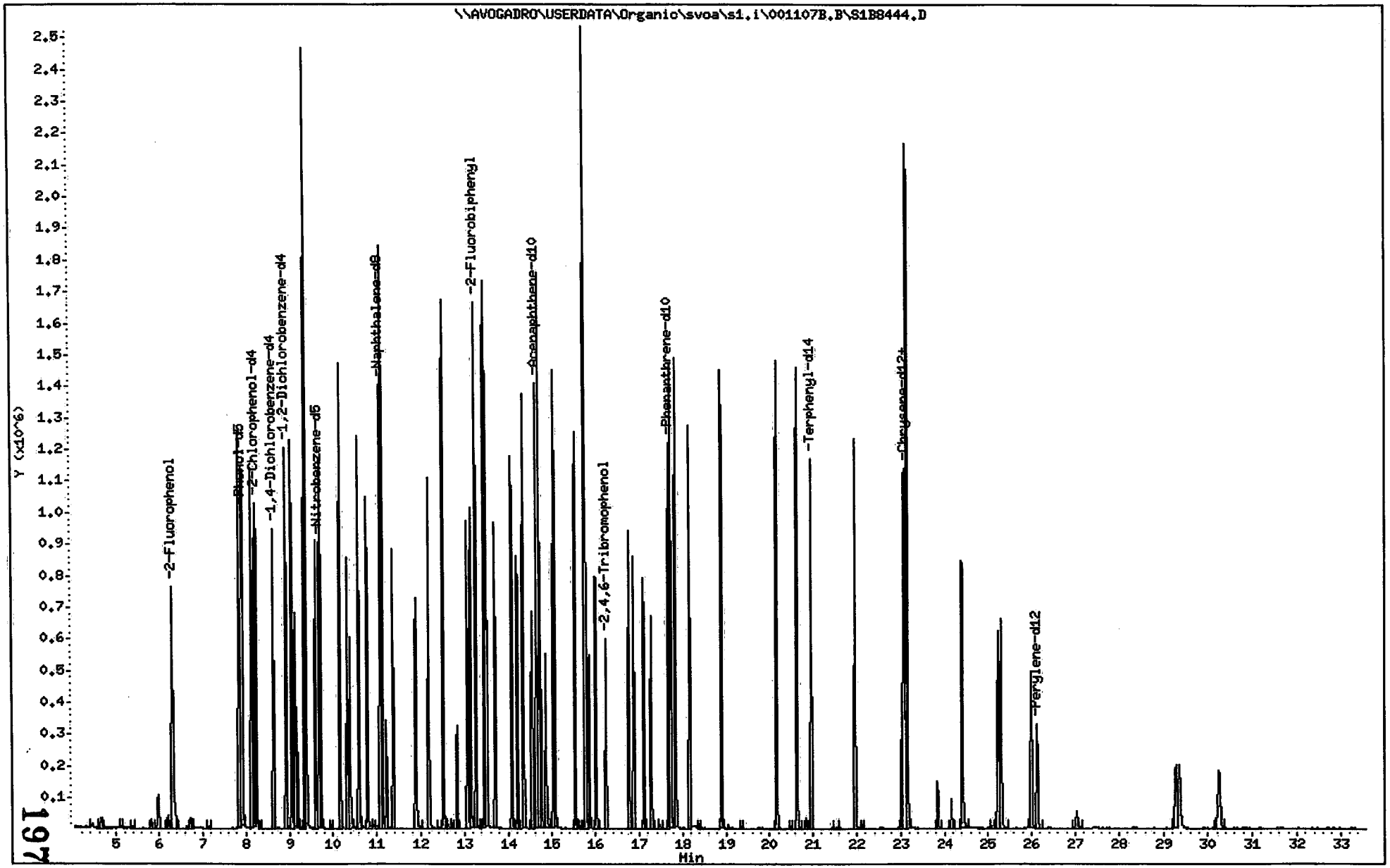
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8444.D
Date : 07-NOV-2000 20:29
Client ID: SSTD0501Z
Sample Info: SS1107F,SSTD0501Z

Instrument: S1.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S1B8444.D
Report Date: 08-Nov-2000 09:22

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8444.D
Lab Smp Id: SS1107F Client Smp ID: SSTD0501Z
Inj Date : 07-NOV-2000 20:29
Operator : QY Inst ID: S1.i
Smp Info : SS1107F,SSTD0501Z
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:21 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	6.313	6.313	(0.731)	463182	50.0000	49
2 Benzaldehyde	77	7.847	7.847	(0.909)	394457	50.0000	51
$ 3 Phenol-d5	99	7.901	7.901	(0.915)	661858	50.0000	50
4 Phenol	94	7.933	7.933	(0.919)	654873	50.0000	49
5 bis(2-Chloroethyl)Ether	93	8.138	8.138	(0.942)	568674	50.0000	52
$ 6 2-Chlorophenol-d4	132	8.214	8.214	(0.951)	497710	50.0000	51
7 2-Chlorophenol	128	8.236	8.236	(0.954)	463959	50.0000	50
* 8 1,4-Dichlorobenzene-d4	152	8.635	8.635	(1.000)	262084	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.927	8.927	(1.034)	309729	50.0000	51
10 2-Methylphenol	108	9.056	9.056	(1.049)	433081	50.0000	48
11 2,2'-oxybis(1-Chloropropane)	45	9.132	9.132	(1.058)	971928	50.0000	52(M)
12 Acetophenone	105	9.381	9.381	(1.086)	663531	50.0000	53
13 N-Nitroso-di-n-propylamine	70	9.381	9.381	(1.086)	335986	50.0000	52
14 4-Methylphenol	108	9.348	9.348	(1.083)	451105	50.0000	49
15 Hexachloroethane	117	9.597	9.597	(1.111)	204548	50.0000	51
$ 16 Nitrobenzene-d5	82	9.683	9.683	(0.873)	547564	50.0000	51
17 Nitrobenzene	77	9.715	9.715	(0.876)	514482	50.0000	52
18 Isophorone	82	10.169	10.169	(0.917)	1060484	50.0000	51
19 2-Nitrophenol	139	10.331	10.331	(0.932)	287355	50.0000	50
20 2,4-Dimethylphenol	107	10.385	10.385	(0.937)	206338	50.0000	34
21 bis(2-Chloroethoxy)methane	93	10.601	10.601	(0.956)	676134	50.0000	53
22 2,4-Dichlorophenol	162	10.785	10.785	(0.973)	343633	50.0000	49
* 23 Naphthalene-d8	136	11.087	11.087	(1.000)	982423	40.0000	
24 Naphthalene	128	11.130	11.130	(1.004)	1270479	50.0000	53
25 4-Chloroaniline	127	11.228	11.228	(1.013)	165333	50.0000	54
26 Hexachlorobutadiene	225	11.379	11.379	(1.026)	174706	50.0000	49

DJ 11/8/00

Data File: S1B8444.D
Report Date: 08-Nov-2000 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	11.897	11.897	(1.073)	166057	50.0000	51
	28 4-Chloro-3-Methylphenol	107	12.189	12.189	(1.099)	346403	50.0000	49
	29 2-Methylnaphthalene	142	12.524	12.524	(1.130)	769698	50.0000	53
	30 Hexachlorocyclopentadiene	237	12.837	12.837	(0.877)	83008	50.0000	27
	31 2,4,6-Trichlorophenol	196	13.085	13.085	(0.894)	231901	50.0000	49
	32 2,4,5-Trichlorophenol	196	13.150	13.150	(0.898)	246043	50.0000	50
$	33 2-Fluorobiphenyl	172	13.269	13.269	(0.906)	820848	50.0000	52
	34 1,1'-Biphenyl	154	13.474	13.474	(0.920)	908320	50.0000	52
	35 2-Chloronaphthalene	162	13.507	13.507	(0.923)	701962	50.0000	51
	36 2-Nitroaniline	65	13.712	13.712	(0.937)	263017	50.0000	49
	37 Dimethylphthalate	163	14.090	14.090	(0.962)	848681	50.0000	51
	38 2,6-Dinitrotoluene	165	14.220	14.220	(0.971)	211260	50.0000	50
	39 Acenaphthylene	152	14.349	14.349	(0.980)	1043285	50.0000	50
	40 3-Nitroaniline	138	14.544	14.544	(0.993)	202072	50.0000	47
*	41 Acenaphthene-d10	164	14.641	14.641	(1.000)	505434	40.0000	
	42 Acenaphthene	153	14.706	14.706	(1.004)	705613	50.0000	52
	43 2,4-Dinitrophenol	184	14.760	14.760	(1.008)	106370	50.0000	41
	44 4-Nitrophenol	109	14.868	14.868	(1.015)	67447	50.0000	45
	45 2,4-Dinitrotoluene	165	15.030	15.030	(1.027)	275651	50.0000	51
	46 Dibenzofuran	168	15.062	15.062	(1.029)	996559	50.0000	51
	47 Diethylphthalate	149	15.548	15.548	(1.062)	828192	50.0000	51
	48 Fluorene	166	15.764	15.764	(1.077)	735130	50.0000	53
	49 4-Chlorophenyl-phenylether	204	15.775	15.775	(1.077)	334864	50.0000	51
	50 4-Nitroaniline	138	15.797	15.797	(1.079)	208111	50.0000	47
	51 4,6-Dinitro-2-methylphenol	198	15.861	15.861	(0.897)	152564	50.0000	46
	52 N-Nitrosodiphenylamine (1)	169	16.013	16.013	(0.905)	346571	50.0000	53
$	53 2,4,6-Tribromophenol	330	16.250	16.250	(0.919)	94087	50.0000	47
	54 4-Bromophenyl-phenylether	248	16.780	16.780	(0.949)	177347	50.0000	50
	55 Hexachlorobenzene	284	16.888	16.888	(0.955)	192875	50.0000	49
	56 Atrazine	200	17.114	17.114	(0.968)	120575	50.0000	52
	57 Pentachlorophenol	266	17.276	17.276	(0.977)	117331	50.0000	45
*	58 Phenanthrene-d10	188	17.687	17.687	(1.000)	697497	40.0000	
	59 Phenanthrene	178	17.741	17.741	(1.003)	997009	50.0000	52
	60 Anthracene	178	17.838	17.838	(1.009)	922744	50.0000	50
	61 Carbazole	167	18.162	18.162	(1.027)	878257	50.0000	51
	62 Di-n-butylphthalate	149	18.897	18.897	(1.068)	1325507	50.0000	53
	63 Fluoranthene	202	20.171	20.171	(1.140)	909997	50.0000	51
	64 Pyrene	202	20.636	20.636	(0.893)	937322	50.0000	50
$	65 Terphenyl-d14	244	20.960	20.960	(0.907)	557622	50.0000	50
	66 Butylbenzylphthalate	149	21.975	21.975	(0.951)	500056	50.0000	52
	67 3,3'-Dichlorobenzidine	252	23.023	23.023	(0.997)	98750	50.0000	43
	68 Benzo(a)anthracene	228	23.077	23.077	(0.999)	636208	50.0000	50
*	69 Chrysene-d12	240	23.098	23.098	(1.000)	409284	40.0000	
	70 Chrysene	228	23.152	23.152	(1.002)	595610	50.0000	51
	71 bis(2-Ethylhexyl)phthalate	149	23.142	23.142	(1.002)	602276	50.0000	53
	72 Di-n-octylphthalate	149	24.416	24.416	(0.934)	858244	50.0000	52
	73 Benzo(b)fluoranthene	252	25.237	25.237	(0.966)	455737	50.0000	50

Data File: S1B8444.D
Report Date: 08-Nov-2000 09:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	25.291	25.291	(0.968)	491489	50.0000	53
75 Benzo(a)pyrene	252	25.993	25.993	(0.995)	377465	50.0000	51
* 76 Perylene-d12	264	26.134	26.134	(1.000)	228251	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.288	29.288	(1.121)	242780	50.0000	50
78 Dibenzo(a,h)anthracene	278	29.363	29.363	(1.124)	239250	50.0000	52
79 Benzo(g,h,i)perylene	276	30.249	30.249	(1.157)	242147	50.0000	52

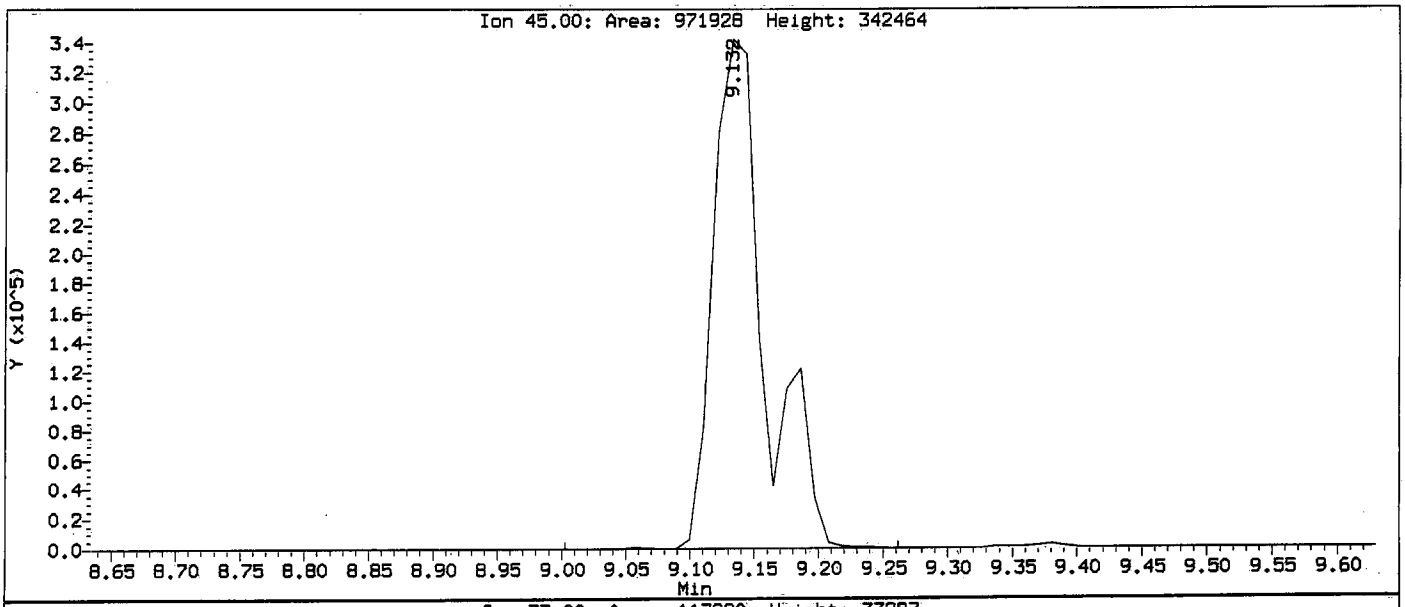
AY
11/8/00

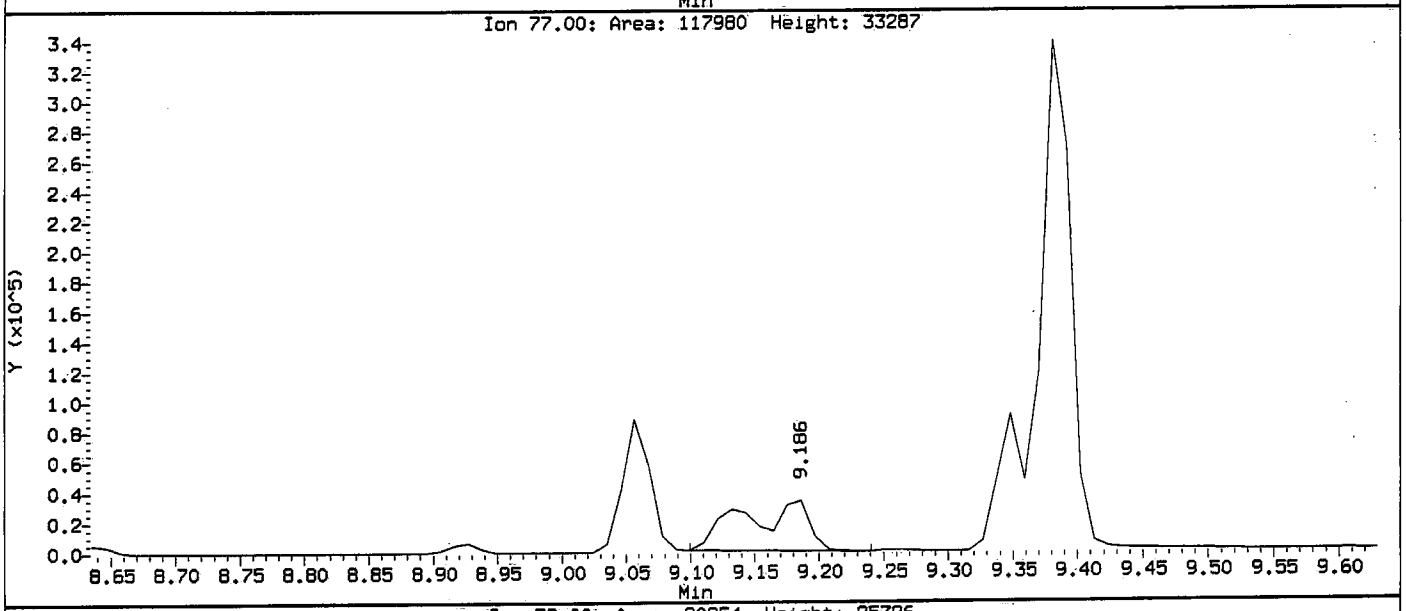
QC Flag Legend

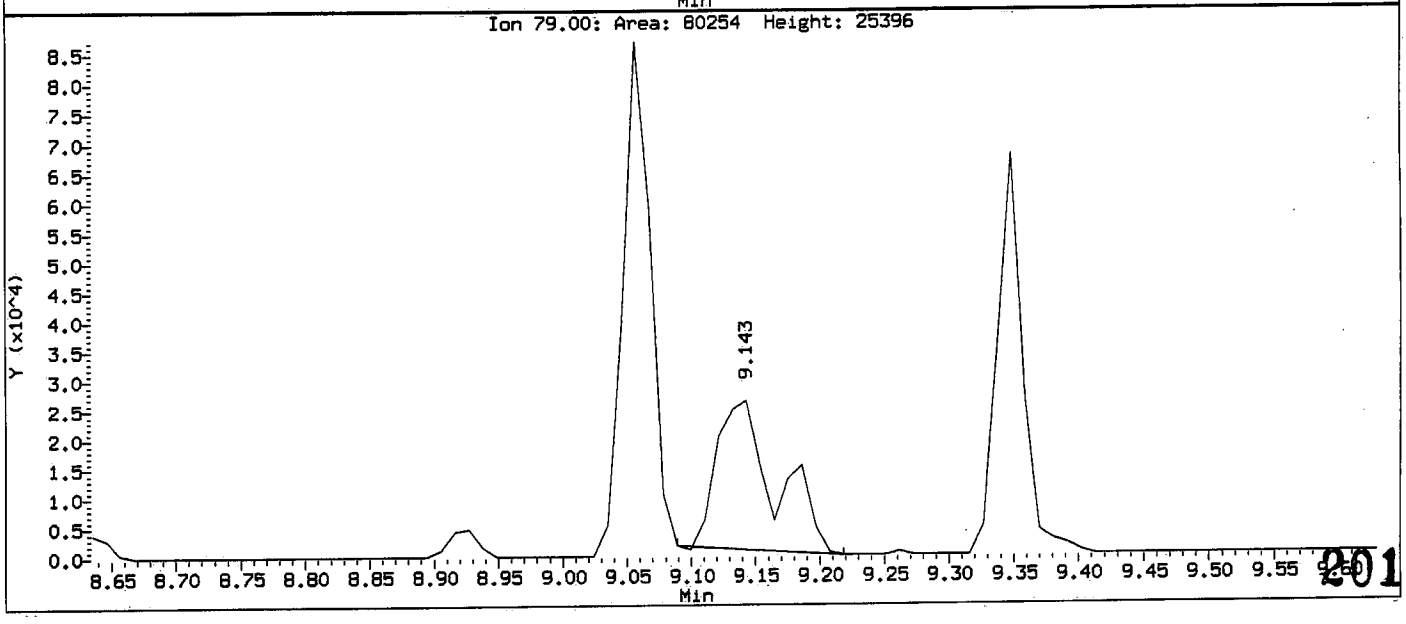
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8444.D
Injection Date: 07-NOV-2000 20:29
Instrument: S1.i
Client Sample ID: SSTD0501Z

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8437.D

Date : 07-NOV-2000 14:15

Client ID: DFTPP1Y

Instrument: S1.i

Sample Info: ST1107A,DFTPP1Y

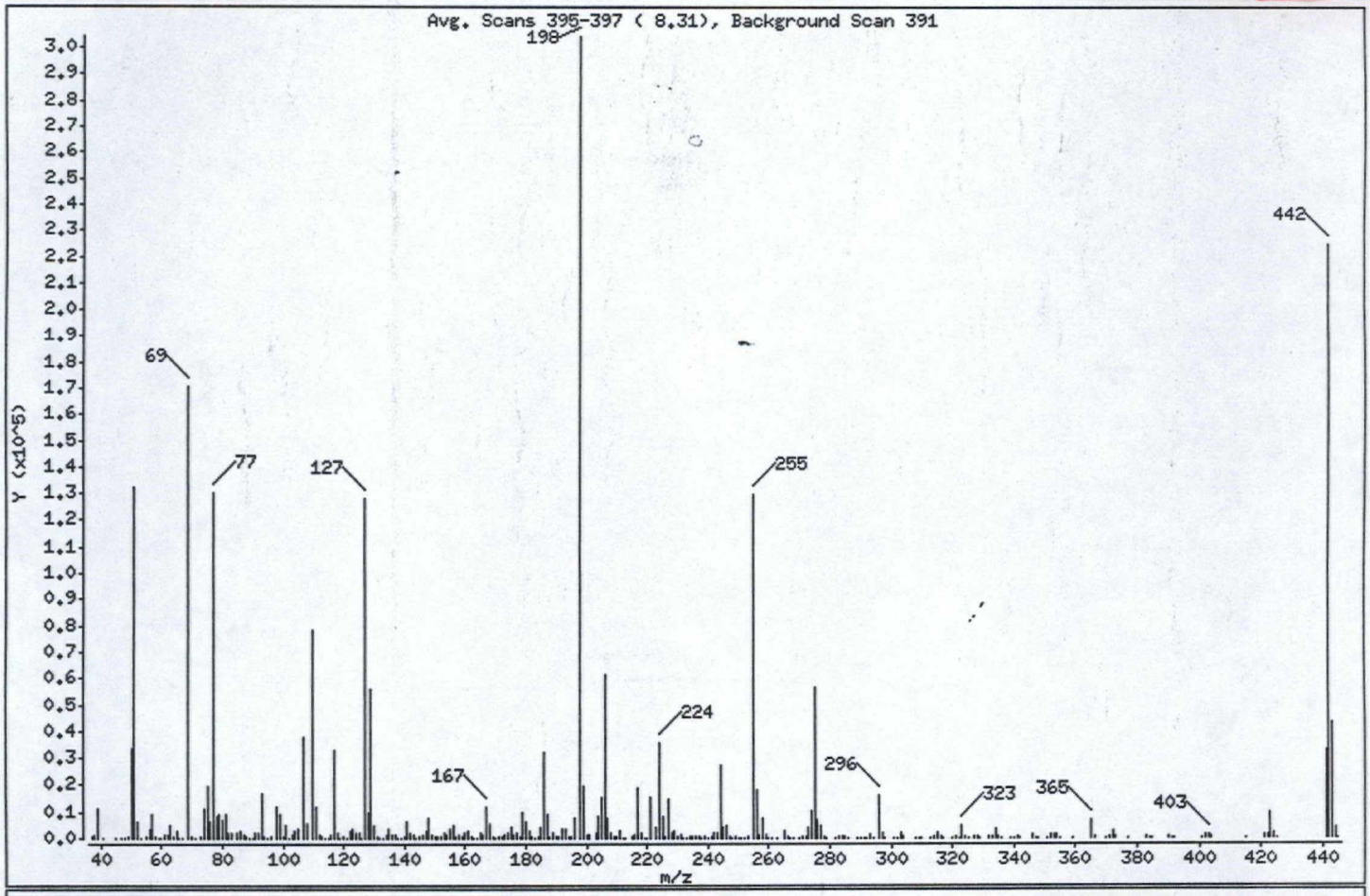
Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp

DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	43.48
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	56.03
70	Less than 2.00% of mass 69	0.15 (0.27)
127	25.00 - 75.00% of mass 198	41.98
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.43
275	10.00 - 30.00% of mass 198	18.58
365	Greater than 0.75% of mass 198	2.32
441	Present, but less than mass 443	10.89
442	40.00 - 110.00% of mass 198	73.75
443	15.00 - 24.00% of mass 442	14.27 (19.35)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8437.D

Date : 07-NOV-2000 14:15

Client ID: DFTPP1Y

Instrument: S1.i

Sample Info: ST1107A,DFTPP1Y

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8437.D

Spectrum: Avg. Scans 395-397 (8.31), Background Scan 391

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	434	126.00	122	205.00	15637	292.00	221
38.00	1722	127.00	127760	206.00	61480	293.00	1097
39.00	10970	128.00	9920	207.00	8028	294.00	247
41.00	126	129.00	56280	208.00	2025	296.00	16344
45.00	296	130.00	4671	209.00	649	297.00	2423
47.00	39	131.00	819	210.00	802	298.00	165
48.00	97	132.00	228	211.00	2530	301.00	226
49.00	925	133.00	136	212.00	71	302.00	269
50.00	33784	134.00	1347	213.00	129	303.00	1977
51.00	132288	135.00	3546	215.00	797	304.00	458
52.00	6614	136.00	1532	216.00	1364	308.00	202
53.00	196	137.00	1659	217.00	19080	309.00	166
55.00	533	138.00	304	218.00	2322	310.00	205
56.00	3836	139.00	247	219.00	255	313.00	121
57.00	9422	140.00	459	220.00	58	314.00	703
58.00	402	141.00	6174	221.00	15556	315.00	1796
59.00	110	142.00	2111	223.00	3988	316.00	877
60.00	159	143.00	1466	224.00	35400	317.00	176
61.00	1605	144.00	327	225.00	8424	320.00	60
62.00	1618	145.00	366	226.00	889	321.00	514
63.00	4933	146.00	1093	227.00	14789	322.00	100
64.00	644	147.00	2952	228.00	2224	323.00	5227
65.00	2463	148.00	7663	229.00	2931	324.00	972
66.00	346	149.00	1353	230.00	479	325.00	46
67.00	206	150.00	456	231.00	1298	327.00	1027
69.00	170496	151.00	852	232.00	230	328.00	460
70.00	457	152.00	371	233.00	294	329.00	37
71.00	82	153.00	1907	234.00	894	332.00	422
73.00	876	154.00	1345	235.00	950	333.00	421
74.00	11354	155.00	3328	236.00	726	334.00	3315
75.00	19920	156.00	4672	237.00	955	335.00	739
76.00	6279	157.00	902	238.00	119	336.00	63
77.00	129808	158.00	1134	239.00	627	339.00	107
78.00	8744	159.00	765	240.00	321	340.00	69
79.00	9064	160.00	1846	241.00	778	341.00	611

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8437.D

Date : 07-NOV-2000 14:15

Client ID: DFTPP1Y

Instrument: S1.i

Sample Info: ST1107A,DFTPP1Y

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8437.D

Spectrum: Avg. Scans 395-397 (8.31), Background Scan 391

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	6712	161.00	2914	242.00	1882	342.00	185
81.00	9242	162.00	966	243.00	2041	346.00	1225
82.00	2126	163.00	200	244.00	27064	347.00	202
83.00	1830	164.00	303	245.00	3850	348.00	35
85.00	2022	165.00	2023	246.00	5189	351.00	40
86.00	2559	166.00	1643	247.00	1046	352.00	1413
87.00	1193	167.00	11573	248.00	293	353.00	1145
88.00	460	168.00	5876	249.00	939	354.00	1426
89.00	258	169.00	1045	250.00	191	355.00	268
90.00	45	170.00	345	251.00	324	359.00	130
91.00	2162	171.00	449	252.00	327	365.00	7063
92.00	2259	172.00	1041	253.00	696	366.00	927
93.00	16560	173.00	1336	255.00	129104	370.00	102
94.00	976	174.00	2298	256.00	18192	371.00	449
95.00	283	175.00	4477	257.00	1581	372.00	2801
96.00	567	176.00	1616	258.00	7716	373.00	683
98.00	11549	177.00	1999	259.00	1164	377.00	44
99.00	8927	178.00	824	260.00	203	383.00	765
100.00	731	179.00	10019	261.00	207	384.00	258
101.00	4969	180.00	6164	263.00	152	385.00	44
102.00	270	181.00	2994	265.00	3002	390.00	387
103.00	1571	182.00	462	266.00	541	391.00	289
104.00	3050	183.00	280	267.00	41	392.00	182
105.00	3197	184.00	844	268.00	159	401.00	179
107.00	37808	185.00	4129	270.00	113	402.00	1151
108.00	5595	186.00	32520	271.00	410	403.00	1581
110.00	78416	187.00	9104	272.00	466	404.00	555
111.00	11760	188.00	779	273.00	3935	415.00	33
112.00	1338	189.00	2008	274.00	10178	421.00	1336
113.00	371	190.00	422	275.00	56536	422.00	1228
114.00	126	191.00	966	276.00	7034	423.00	9835
115.00	212	192.00	3172	277.00	4664	424.00	2015
116.00	1320	193.00	3288	278.00	604	425.00	201
117.00	33032	194.00	704	279.00	107	441.00	33144
118.00	2215	195.00	548	282.00	70	442.00	224448

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8437.D

Date : 07-NOV-2000 14:15

Client ID: DFTPP1Y

Instrument: S1.i

Sample Info: ST1107A,DFTPP1Y

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8437.D

Spectrum: Avg. Scans 395-397 (8.31), Background Scan 391

Location of Maximum: 198.00

Number of points: 304

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	270	196.00	7627	283.00	595	443.00	43424
120.00	395	198.00	304320	284.00	396	444.00	3850
121.00	126	199.00	19568	285.00	869	445.00	169
122.00	2501	200.00	1459	286.00	113		
123.00	3561	201.00	1207	289.00	223		
124.00	1995	203.00	1796	290.00	234		
125.00	1773	204.00	8728	291.00	96		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107A.B\S1B8437.D

Date : 07-NOV-2000 14:15

Client ID: DFTPP1Y

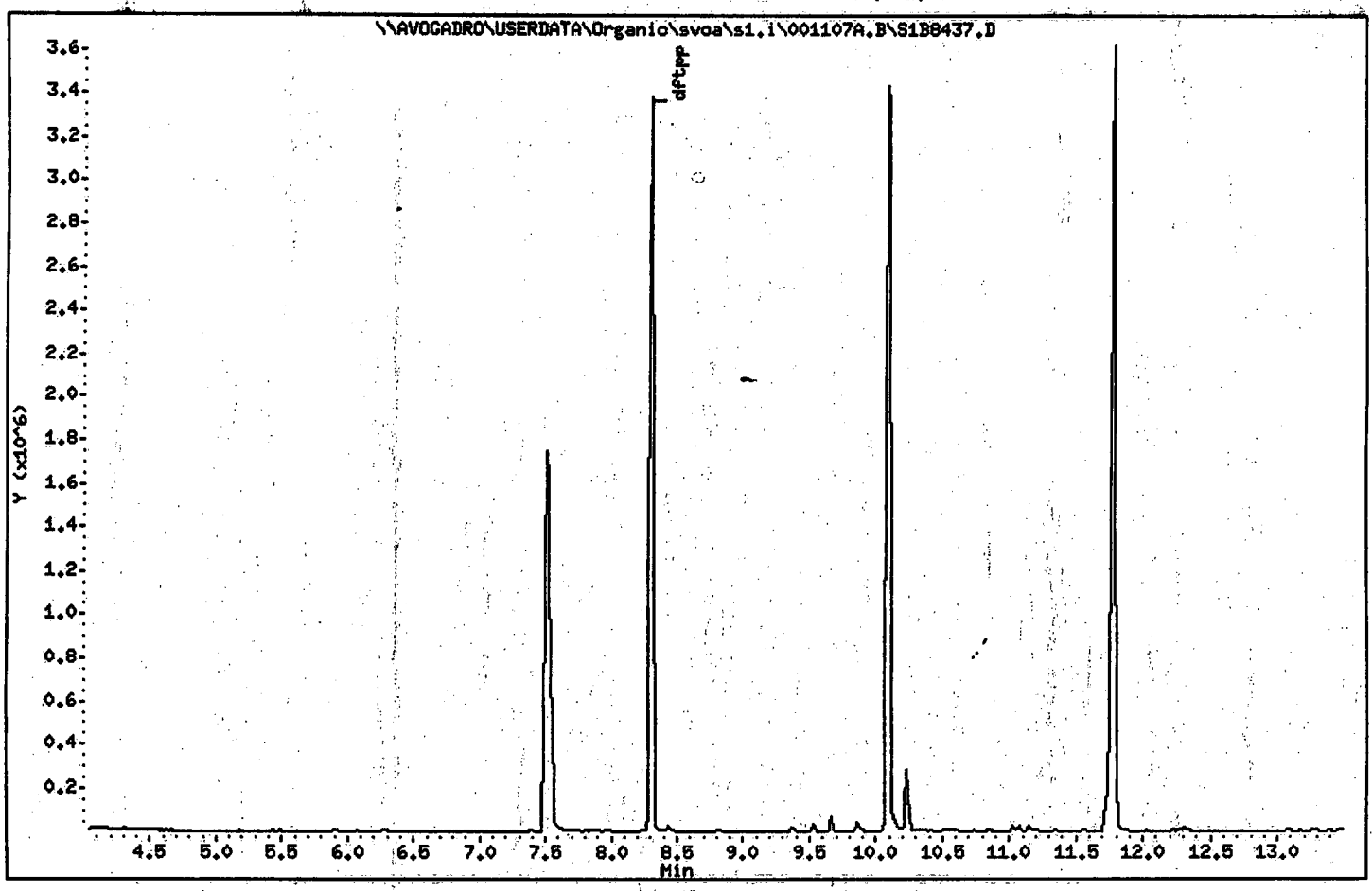
Instrument: S1.i

Sample Info: ST1107A,DFTPP1Y

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8443B.D

Date : 07-NOV-2000 20:08

Client ID: DFTPP1Z

Instrument: S1.i

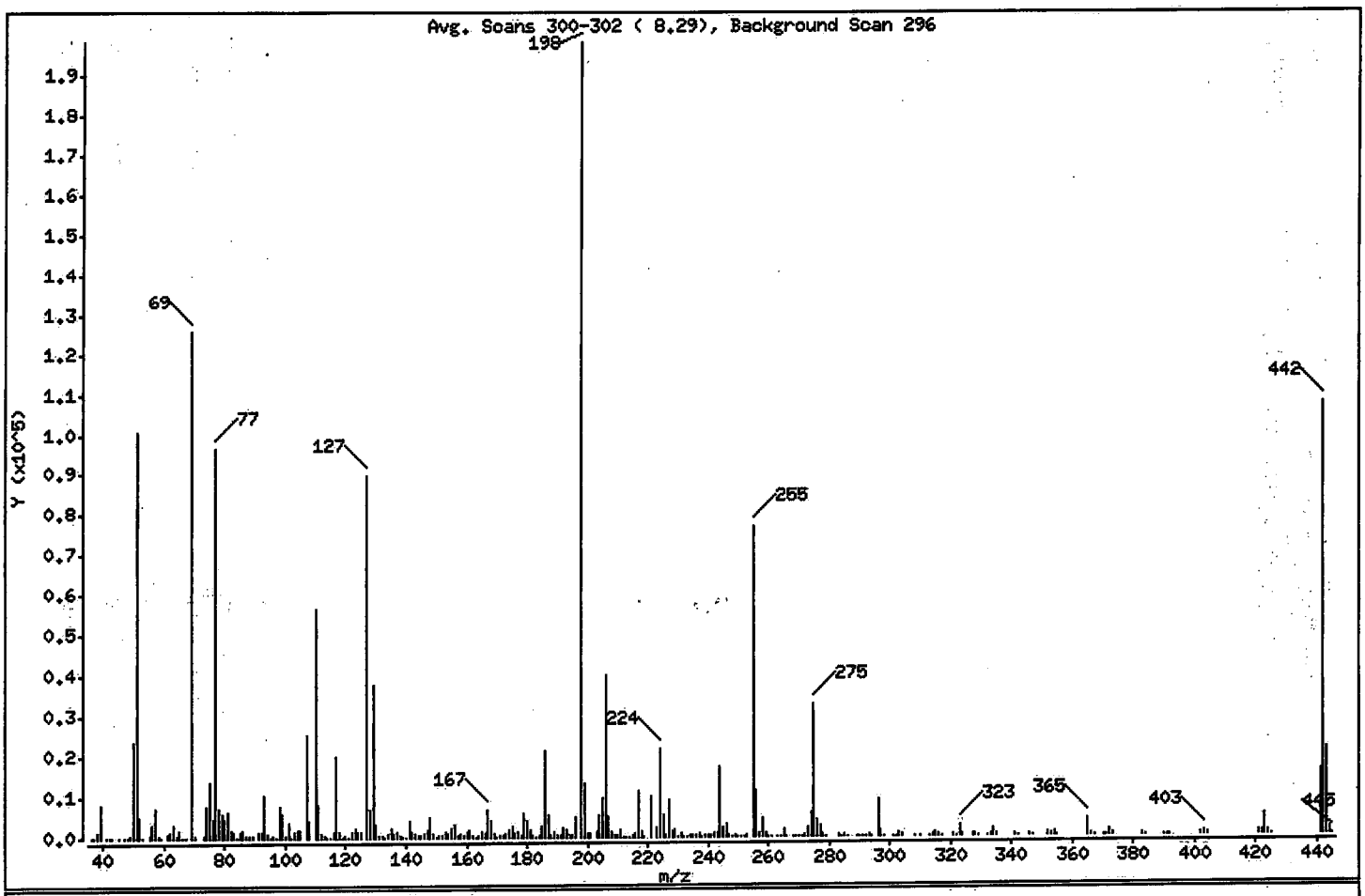
Sample Info: ST1107B,DFTPP1Z

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	50.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	63.49
70	Less than 2.00% of mass 69	0.22 (0.34)
127	25.00 - 75.00% of mass 198	45.34
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.66
275	10.00 - 30.00% of mass 198	16.50
365	Greater than 0.75% of mass 198	2.03
441	Present, but less than mass 443	8.09
442	40.00 - 110.00% of mass 198	54.32
443	15.00 - 24.00% of mass 442	10.71 (19.72)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8443B.D

Date : 07-NOV-2000 20:08

Client ID: DFTPP1Z

Instrument: S1.i

Sample Info: ST1107B,DFTPP1Z

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8443B.D

Spectrum: Avg. Scans 300-302 (8.29), Background Scan 296

Location of Maximum: 198.00

Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10	121.00	82	196.00	5136	277.00	2846
37.00	176	122.00	1417	198.00	198208	278.00	337
38.00	1168	123.00	2375	199.00	13208	279.00	91
39.00	8050	124.00	1277	200.00	1063	283.00	350
41.00	225	125.00	1202	201.00	843	284.00	183
42.00	53	127.00	89880	203.00	1239	285.00	453
43.00	135	128.00	6795	204.00	5613	286.00	41
45.00	208	129.00	37784	205.00	9747	289.00	89
47.00	47	130.00	3149	206.00	39984	290.00	50
48.00	101	131.00	588	207.00	5150	291.00	51
49.00	535	132.00	333	208.00	1361	292.00	72
50.00	23768	133.00	136	209.00	443	293.00	682
51.00	100816	134.00	1004	210.00	340	294.00	84
52.00	5217	135.00	2502	211.00	1611	296.00	8950
53.00	159	136.00	852	212.00	199	297.00	1362
55.00	458	137.00	1293	213.00	139	298.00	46
56.00	3020	138.00	271	214.00	34	301.00	111
57.00	7085	139.00	171	215.00	414	302.00	143
58.00	299	140.00	220	216.00	903	303.00	1042
59.00	85	141.00	4051	217.00	11449	304.00	277
61.00	1110	142.00	1339	218.00	1491	308.00	113
62.00	1244	143.00	831	219.00	110	310.00	88
63.00	3272	144.00	273	221.00	9950	313.00	36
64.00	447	145.00	246	223.00	2267	314.00	488
65.00	1759	146.00	723	224.00	21880	315.00	983
66.00	163	147.00	1689	225.00	5646	316.00	560
67.00	37	148.00	5215	226.00	311	317.00	76
69.00	125864	149.00	987	227.00	9073	321.00	254
70.00	428	150.00	226	228.00	1229	322.00	72
73.00	537	151.00	534	229.00	1761	323.00	2944
74.00	7772	152.00	237	230.00	216	324.00	479
75.00	13507	153.00	1203	231.00	755	327.00	577
76.00	4548	154.00	1071	232.00	152	328.00	231
77.00	96608	155.00	2147	233.00	132	329.00	36
78.00	7170	156.00	3153	234.00	568	332.00	144

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8443B.D

Date : 07-NOV-2000 20:08

Client ID: DFTPP1Z

Instrument: S1.i

Sample Info: ST1107B,DFTPP1Z

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8443B.D
Spectrum: Avg. Scans 300-302 (8.29), Background Scan 296
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	6052	157.00	532	235.00	521	333.00	260
80.00	4447	158.00	685	236.00	469	334.00	1664
81.00	6499	159.00	541	237.00	698	335.00	418
82.00	1621	160.00	1221	238.00	34	341.00	299
83.00	1294	161.00	1845	239.00	335	342.00	42
84.00	206	162.00	388	240.00	293	346.00	640
85.00	1458	163.00	121	241.00	502	347.00	39
86.00	1661	164.00	249	242.00	1117	352.00	789
87.00	654	165.00	1255	243.00	1074	353.00	478
88.00	304	166.00	1097	244.00	17208	354.00	806
89.00	228	167.00	6932	245.00	2307	355.00	147
91.00	1320	168.00	3974	246.00	3004	365.00	4025
92.00	1468	169.00	715	247.00	546	366.00	577
93.00	10536	170.00	163	248.00	133	367.00	46
94.00	817	171.00	324	249.00	601	370.00	85
95.00	187	172.00	672	250.00	188	371.00	205
96.00	483	173.00	900	251.00	174	372.00	1506
97.00	199	174.00	1664	252.00	169	373.00	350
98.00	7548	175.00	2850	253.00	314	383.00	394
99.00	6037	176.00	943	255.00	77104	384.00	84
100.00	487	177.00	1297	256.00	11505	390.00	197
101.00	3691	178.00	579	257.00	758	391.00	147
102.00	208	179.00	6111	258.00	4769	392.00	44
103.00	1271	180.00	4215	259.00	791	402.00	574
104.00	2039	181.00	1829	260.00	130	403.00	811
105.00	1921	182.00	392	261.00	117	404.00	308
107.00	25656	183.00	209	263.00	35	421.00	779
108.00	4094	184.00	407	264.00	180	422.00	716
110.00	56352	185.00	2760	265.00	1746	423.00	5019
111.00	8031	186.00	21440	266.00	185	424.00	867
112.00	892	187.00	5578	268.00	76	425.00	83
113.00	310	188.00	553	269.00	41	441.00	16044
114.00	50	189.00	1158	270.00	36	442.00	107672
115.00	79	190.00	288	271.00	179	443.00	21232
116.00	1400	191.00	556	272.00	251	444.00	1849

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8443B.D

Date : 07-NOV-2000 20:08

Client ID: DFTPP1Z

Instrument: S1.i

Sample Info: ST1107B,DFTPP1Z

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S1B8443B.D
Spectrum: Avg. Scans 300-302 (8.29), Background Scan 296
Location of Maximum: 198.00
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	20272	192.00	2149	273.00	2140	445.00	129
118.00	1396	193.00	2042	274.00	5944		
119.00	182	194.00	416	275.00	32696		
120.00	318	195.00	249	276.00	4281		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8443B.D

Date : 07-NOV-2000 20:08

Client ID: DFTPP1Z

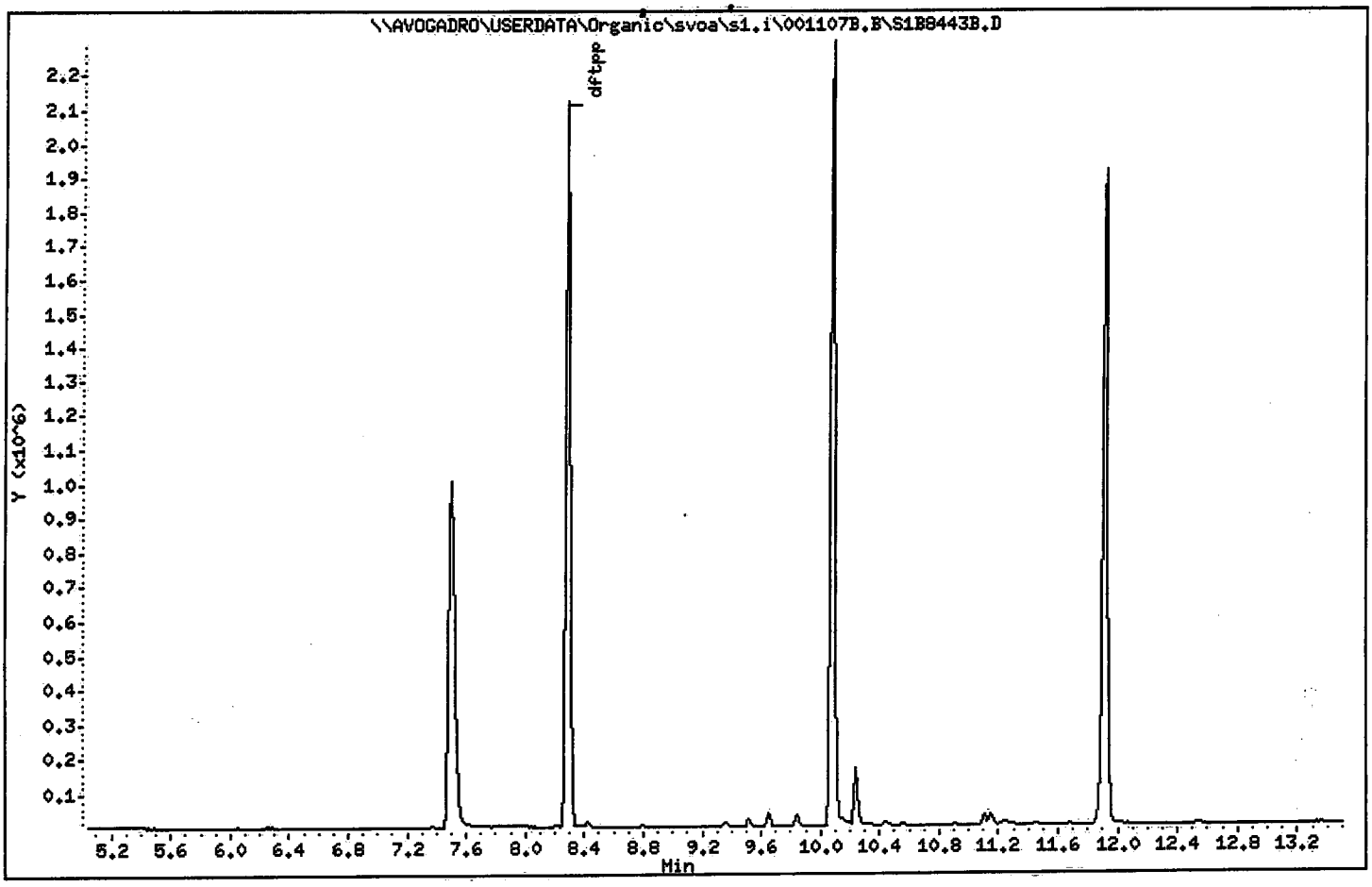
Instrument: S1.i

Sample Info: ST1107B,DFTPP1Z

Operator: QY

Column phase:

Column diameter: 2.00



1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: S1025-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8445

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/07/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

SBLK1

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: S1025-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8445

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/07/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1A

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: S1025-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8445

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/07/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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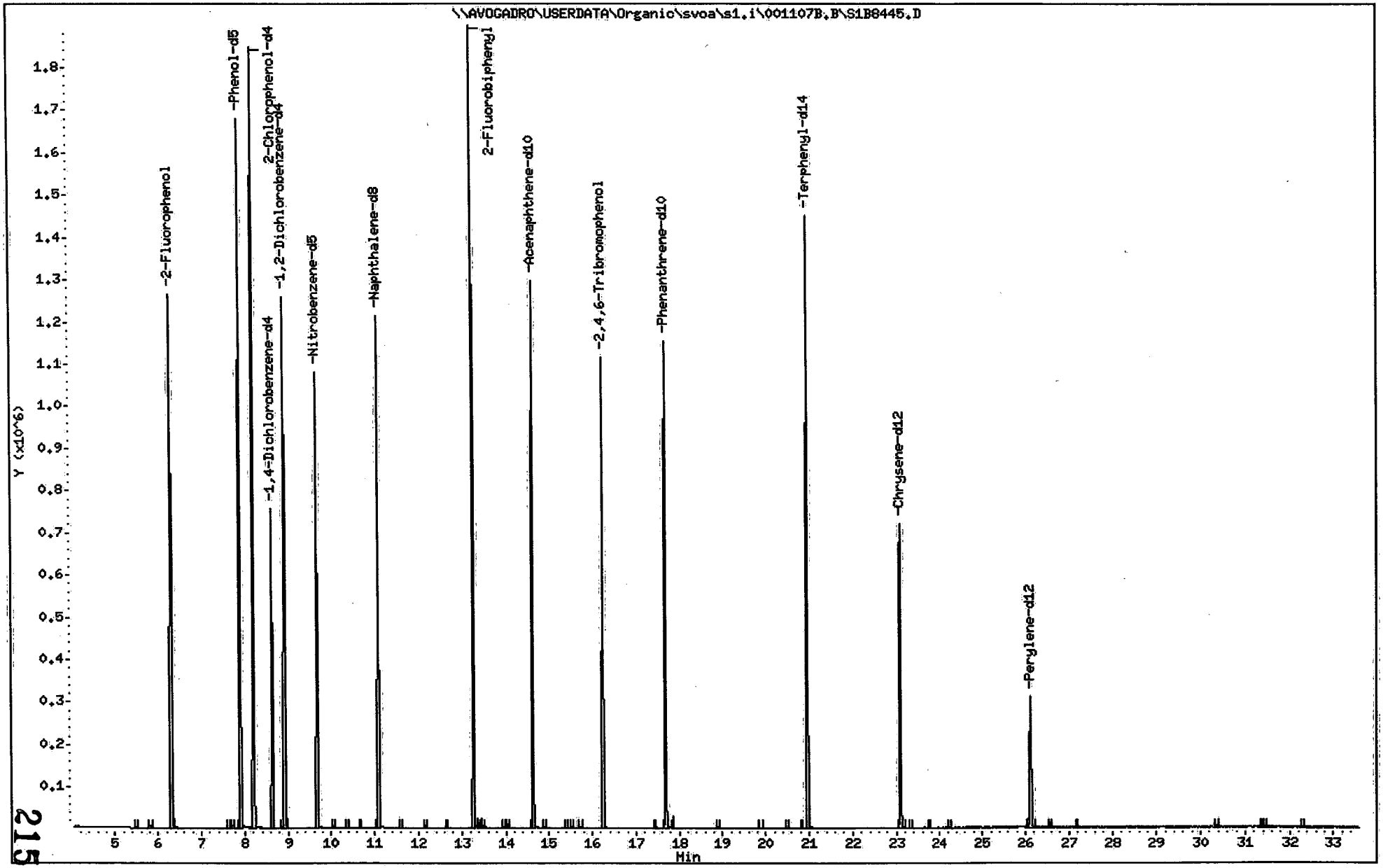
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8445.D
Date : 07-NOV-2000 21:54
Client ID: SBLK1A
Sample Info: S1025-BW1,SBLK1A,S1025-BW1,RC,,
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: S1.i
Operator: RC
Column diameter: 0.25



Data File: S1B8445.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8445.D
Lab Smp Id: S1025-BW1 Client Smp ID: SBLK1A
Inj Date : 07-NOV-2000 21:54
Operator : RC Inst ID: S1.i
Smp Info : S1025-BW1,SBLK1A,S1025-BW1,RC,,
Misc Info : ,,,1,,,,,,,25-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.321	6.313	(0.731)	813146	106.955	53
$ 3 Phenol-d5	99	7.909	7.901	(0.915)	1135831	104.553	52
$ 6 2-Chlorophenol-d4	132	8.211	8.214	(0.950)	854019	104.539	52
* 8 1,4-Dichlorobenzene-d4	152	8.643	8.635	(1.000)	215092	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	8.924	8.927	(1.032)	307261	60.4382	30
$ 16 Nitrobenzene-d5	82	9.669	9.683	(0.872)	617109	67.4129	34
* 23 Naphthalene-d8	136	11.084	11.087	(1.000)	821207	40.0000	
$ 33 2-Fluorobiphenyl	172	13.266	13.269	(0.906)	912606	63.5226	32
* 41 Acenaphthene-d10	164	14.638	14.641	(1.000)	442310	40.0000	
$ 53 2,4,6-Tribromophenol	330	16.247	16.250	(0.919)	177577	103.021	52
* 58 Phenanthrene-d10	188	17.684	17.687	(1.000)	638916	40.0000	
$ 65 Terphenyl-d14	244	20.967	20.960	(0.908)	801004	75.8024	38
* 69 Chrysene-d12	240	23.095	23.098	(1.000)	387799	40.0000	
* 76 Perylene-d12	264	26.131	26.134	(1.000)	219305	40.0000	

ZJ
11/8/00

Data File: S1B8445.D
Report Date: 08-Nov-2000 11:09

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8445.D
Lab Smp Id: S1025-BW1 Client Smp ID: SBLK1A
Inj Date : 07-NOV-2000 21:54
Operator : RC Inst ID: S1.i
Smp Info : S1025-BW1,SBLK1A,S1025-BW1,RC,,
Misc Info : ,,,1,,,,,,,25-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMS

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8450

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	65	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	65	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	69	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	43	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMS

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8450

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

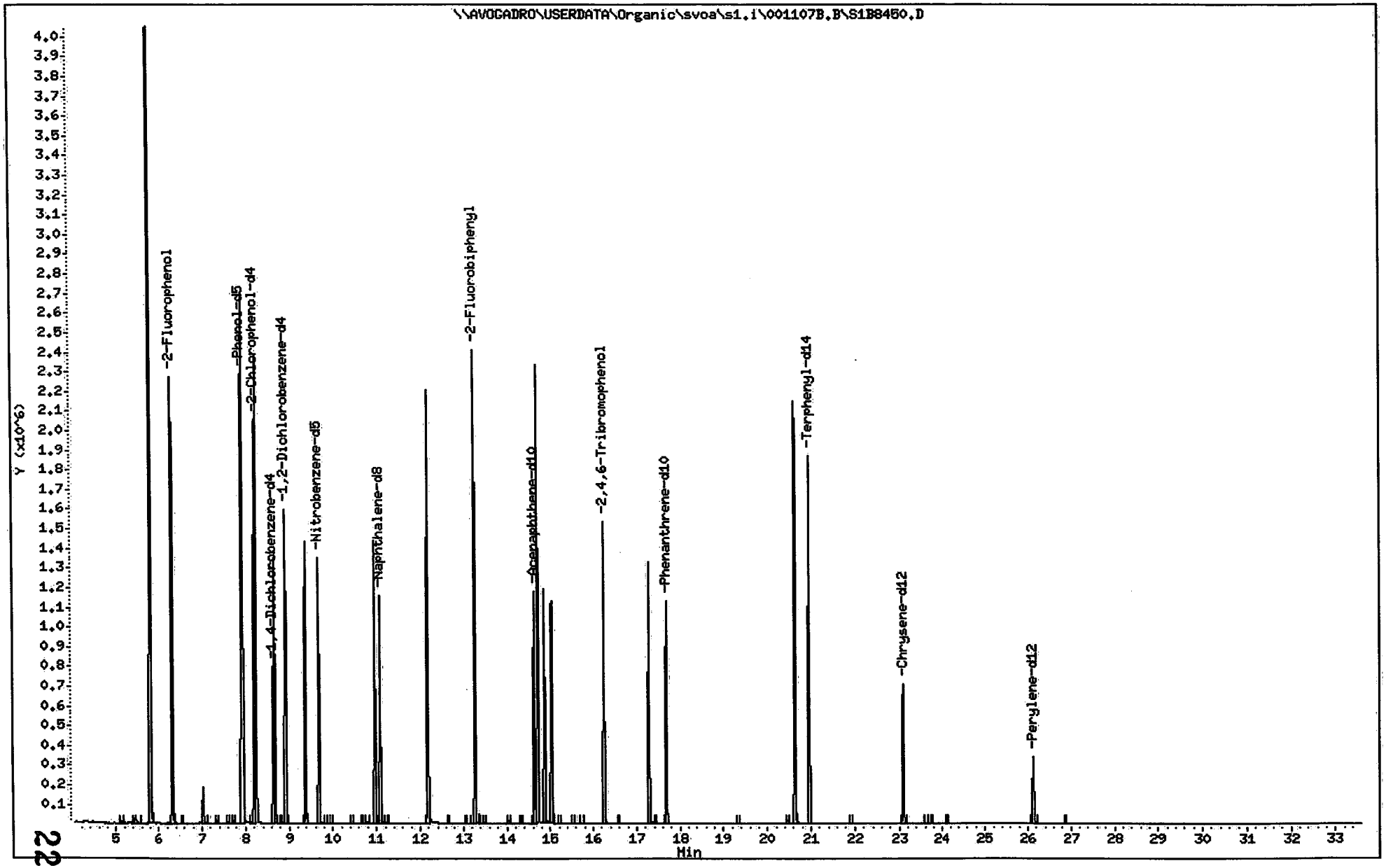
Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	69	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	62	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8450.D
Date : 08-NOV-2000 01:26
Client ID: 230WS-CFMS
Instrument: S1.i
Sample Info: 71712006,230WS-CFMS,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Operator: RC
Column phase: DB-5MS
Column diameter: 0.25



Data File: S1B8450.D
Report Date: 08-Nov-2000 10:34

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8450.D
Lab Smp Id: 71712006 Client Smp ID: 230WS-CFMS
Inj Date : 08-NOV-2000 01:26
Operator : RC Inst ID: S1.i
Smp Info : 71712006,230WS-CFMS,S1025-BW1,RC,,71712
Misc Info : 3,,MS,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 12 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.320	6.313	(0.731)	1081253	142.929	71
$ 3 Phenol-d5	99	7.919	7.901	(0.916)	1489052	137.750	69
4 Phenol	94	7.940	7.933	(0.919)	1383191	129.322	65
$ 6 2-Chlorophenol-d4	132	8.210	8.214	(0.950)	1119543	137.724	69
7 2-Chlorophenol	128	8.243	8.236	(0.954)	985580	130.064	65
* 8 1,4-Dichlorobenzene-d4	152	8.643	8.635	(1.000)	214025	40.0000	(Q)
$ 9 1,2-Dichlorobenzene-d4	152	8.923	8.927	(1.032)	390464	77.1872	39
13 N-Nitroso-di-n-propylamine	70	9.377	9.381	(1.085)	459579	83.7500	42(Q)
$ 16 Nitrobenzene-d5	82	9.680	9.683	(0.873)	739946	84.8100	42
* 23 Naphthalene-d8	136	11.084	11.087	(1.000)	782684	40.0000	
28 4-Chloro-3-Methylphenol	107	12.185	12.189	(1.099)	758182	137.364	69
$ 33 2-Fluorobiphenyl	172	13.266	13.269	(0.906)	1132627	83.7228	42
* 41 Acenaphthene-d10	164	14.637	14.641	(1.000)	416500	40.0000	
42 Acenaphthene	153	14.713	14.706	(1.005)	999363	85.9362	43

Data File: S1B8450.D
Report Date: 08-Nov-2000 10:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
44 4-Nitrophenol	109	14.875	14.868	(1.016)	153722	138.291	69(R)
45 2,4-Dinitrotoluene	165	15.037	15.030	(1.027)	414070	91.1452	46
$ 53 2,4,6-Tribromophenol	330	16.247	16.250	(0.919)	243826	150.780	75
57 Pentachlorophenol	266	17.284	17.276	(0.977)	248477	123.216	62
* 58 Phenanthrene-d10	188	17.683	17.687	(1.000)	599405	40.0000	
64 Pyrene	202	20.632	20.636	(0.893)	1547623	90.8334	45
$ 65 Terphenyl-d14	244	20.967	20.960	(0.908)	990688	97.7387	49
* 69 Chrysene-d12	240	23.095	23.098	(1.000)	371985	40.0000	
* 76 Perylene-d12	264	26.130	26.134	(1.000)	234899	40.0000	

Ay
11/8/00

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMSD

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8451

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	53	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	53	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	38	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	55	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	38	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

230WS-CFMSD

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71712

Matrix: (soil/water) WATER Lab Sample ID: 71712007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1B8451

Level: (low/med) LOW Date Received: 10/24/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/25/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/08/00

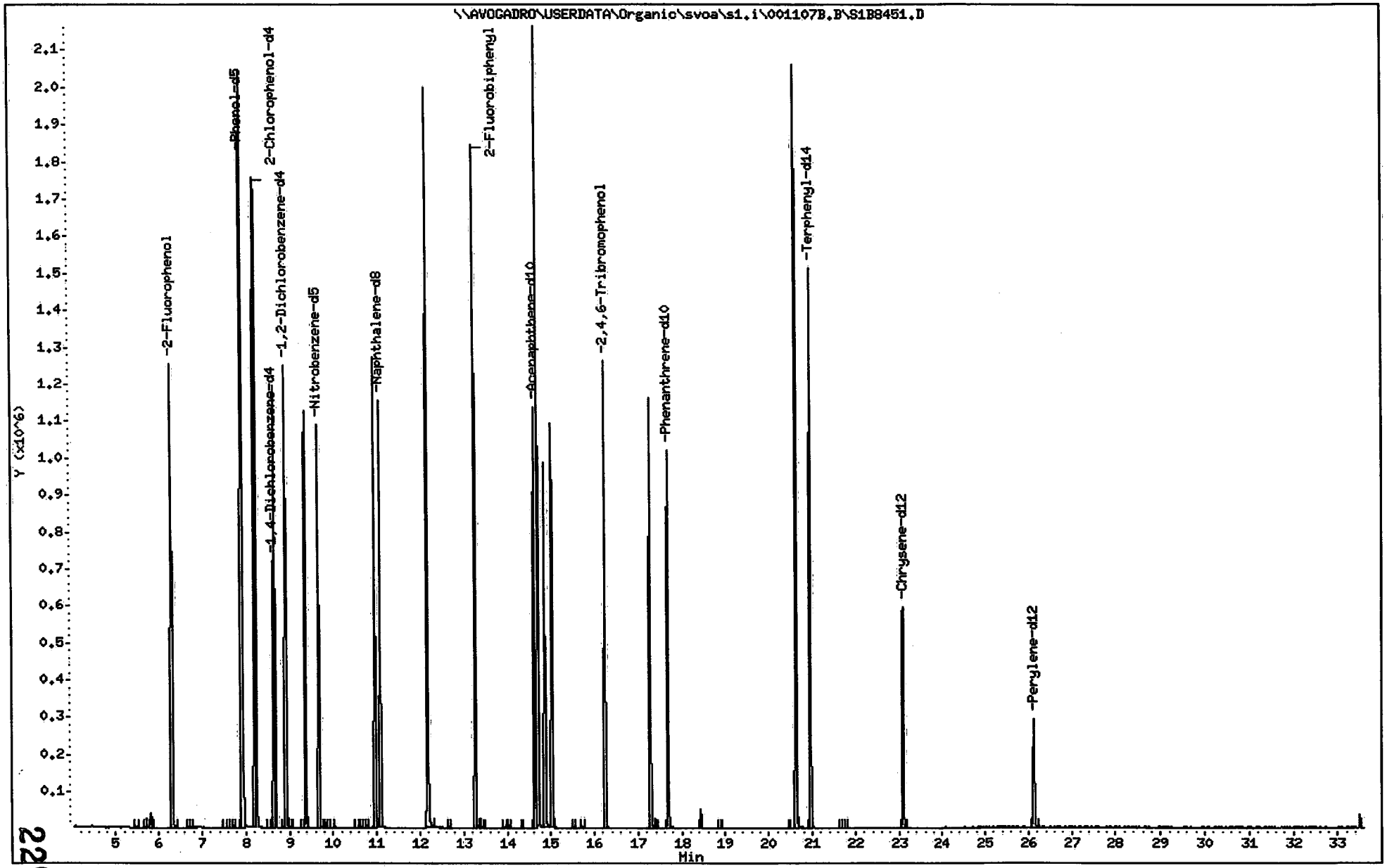
Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	62	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	61	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8451.D
Date : 08-NOV-2000 02:09
Client ID: 230WS-CFMSD
Instrument: S1.i
Sample Info: 71712007,230WS-CFMSD,S1025-BW1,RC,,71712
Volume Injected (uL): 2.0
Operator: RC
Column phase: DB-5MS
Column diameter: 0.25



Data File: S1B8451.D
Report Date: 08-Nov-2000 10:35

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\S1B8451.D
Lab Smp Id: 71712007 Client Smp ID: 230WS-CFMSD
Inj Date : 08-NOV-2000 02:09
Operator : RC Inst ID: S1.i
Smp Info : 71712007,230WS-CFMSD,S1025-BW1,RC,,71712
Misc Info : 3,,MSD,1,,,,,,,25-OCT-00,24-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s1.i\001107B.B\s1_olm4_1.m
Meth Date : 08-Nov-2000 09:34 mtl Quant Type: ISTD
Cal Date : 07-NOV-2000 20:29 Cal File: S1B8444.D
Als bottle: 13 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	6.311	6.313	(0.730)	804490	111.097	56
$ 3 Phenol-d5	99	7.909	7.901	(0.915)	1140961	110.266	55
4 Phenol	94	7.931	7.933	(0.918)	1083970	105.875	53
$ 6 2-Chlorophenol-d4	132	8.212	8.214	(0.950)	845849	108.705	54
7 2-Chlorophenol	128	8.244	8.236	(0.954)	775972	106.980	53
* 8 1,4-Dichlorobenzene-d4	152	8.644	8.635	(1.000)	204869	40.0000	(Q)
$ 9 1,2-Dichlorobenzene-d4	152	8.925	8.927	(1.032)	317872	65.6455	33
13 N-Nitroso-di-n-propylamine	70	9.378	9.381	(1.085)	394676	75.1370	38(Q)
$ 16 Nitrobenzene-d5	82	9.670	9.683	(0.872)	617842	70.5302	35
* 23 Naphthalene-d8	136	11.085	11.087	(1.000)	785843	40.0000	
28 4-Chloro-3-Methylphenol	107	12.176	12.189	(1.098)	604249	109.035	55
$ 33 2-Fluorobiphenyl	172	13.267	13.269	(0.906)	918146	70.6559	35
* 41 Acenaphthene-d10	164	14.639	14.641	(1.000)	400069	40.0000	
42 Acenaphthene	153	14.703	14.706	(1.004)	853408	76.3994	38

Data File: S1B8451.D
Report Date: 08-Nov-2000 10:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
44 4-Nitrophenol	109	14.876	14.868	(1.016)	132553	124.144	62 (R)
45 2,4-Dinitrotoluene	165	15.028	15.030	(1.027)	357689	81.9682	41
$ 53 2,4,6-Tribromophenol	330	16.248	16.250	(0.919)	201351	133.213	67
57 Pentachlorophenol	266	17.285	17.276	(0.977)	229558	121.787	61
* 58 Phenanthrene-d10	188	17.685	17.687	(1.000)	560261	40.0000	
64 Pyrene	202	20.633	20.636	(0.893)	1369944	89.7021	45
$ 65 Terphenyl-d14	244	20.968	20.960	(0.908)	822401	90.5175	45
* 69 Chrysene-d12	240	23.096	23.098	(1.000)	333431	40.0000	
* 76 Perylene-d12	264	26.131	26.134	(1.000)	203052	40.0000	

TY
11/8/00

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Date	Analysis	Method & SOP #	Sample Matrix	Project(s)
10/25/00	OLM BNA	AQ: 3510C(SepF) 3520C(Liq/Liq) Other: Soil: 3540C(Soxhlet) 3550B(Sonic)	Aqueous Soil Other:	71712

Blank ID	LCS ID	Analyst:	Spiker:	Witness:	Solvent Lot #	Acid Lot #	Time Started: / Time Ended:	GPC Batch #
S1025 -BW1 -BW2	—	BMF	BMF	[illegible]	T16320	319020	5pm / 10AM	—

Lab ID	Client ID	Wt/Vol Extracted	Surrogate Added	Matrix Spike Added	pH	KD prior to GPC Date/Analyst	Vol. pre GPC	GPC Date/Analyst	KD after GPC Date/Analyst	Final Vol.	Date Ext. Trans.
S1025-BW1		1000mL	OSW001004A 50ml	—	2	—			10/27/00 [illegible]	1ml	10/27/00
-BW2		↓	↓	↓	↓				↓	↓	↓
S71712-01											
-02				↓							
-02MS				OSW000818A 50ml							
-02MSD				↓							
-03				—							
-04		↓	↓	↓	↓				↓	↓	↓

Comments

QAT00173
7P-16

Reviewed By: _____

Page: 094

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MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
10/27/00	S71721-02	[illegible]	[illegible]	R7	
	-03				
	-04				
	-05				
	-06				
	-07				
	S1025-BW1				
	-BW2				
	S71712-01				
	-02				
	-02MS				
	-02MSD				
	-03				
	-04				
10-28-00	S71686-12 MSD	RP			
	-13				
	-14				
	-15				
	-16				
	-17				
	-18				
	-19				FV: 1ml
	-20				
	-21				
	-21 MS				
	-21 MSD				
	-22				
	-23				
	-29				FV: 1ml
	-30				
	-32				FV: 1ml
	S71663-32				
	-33				
	-34				
	-35				

QAT00141

Log ID: 7SV-12

Reviewed By: [illegible] 11/3/00

Page: 0034

MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S1

Date: 11/7/00 Tune Time: TF PCP:

Benzidine: N/A

%BKD DDT:

Initial Calibration Date: 11/7/00 (OLM) EMV: ~~1953~~ 2047

Analyst:

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	✓
Ferrule	—

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S1B8433	ST1107A	DFTPP1Y	DFTPP		NG - retune		
37	↓	↓	DFTCLP		OK 2:15		
38	SS1107A	SSTD0501Y	CLP_ASP		SW001019D OLM 4.2		
39	SS1107B	1601Y	↓		↓ A OK	24DMP out	
40	SS1107C	1201Y			B 1 out	<40%	
41	SS1107D	801Y			C		
42	SS1107E	101Y			↓ E		
42A	↓	↓			not needed		
39A	SS1107B	SSTD1601Y	↓		↓		
S1B8443B	ST1107B	DFTPP1Z	DFTCLP		OK 8:08		
44	SS1107F	SSTD0501Z	CLP_ASP		OK		
45	S1025-BW1	SBLK1A	↓	1	OK	OK	OK
46	S1026-BS1	B		1	↓	↓	↓
47	S1025-BW2	C		1			
48	71712 001			1			
49	008	~~MS~~		1			
50	006	MSB		1	1↑		
51	007	MSD		1	1↑		
52	003			1			
53	004			1			
54	71702004			1			
55	002		↓	1	↓	↓	↓

230

QAT00167

Log ID: 7SV-10

Reviewed By:_____

Page: 096

MITKEM CORPORATION: Sample Receipt Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
71711	10/24/00	CDM	A1	01	01 RJK 10/24/00	01 RJK 10/24/00						
					01 MJ 10/25/00	01 MJ 10/25/00						
71712	10/24/00	Roy F Weston	UOA B2	01-05 01-04	01-04 BMF 10/25/00							
71713	10/24/00	CDM	A6	01-10	10 RJK 10/24/00	10 Empty for CN- RJK 10/24/00	1-10 RJO 10/25	1-10 RJO 10/25 all empty				
					5,7, 1-4, 8-10 EP 10/24	1-5, 7-10 WC 10/24	01-10 MJ 10/25/00	01-10 MJ 10/25/00				
71714	10-24-00	R.I.A.N.G	A3 G1	02-03 01 (BAG)	03 EP 10/25	03 EP 10/25						
					~~G1-04~~ BMF ~~BMF 10/25/00~~ ~~10/25/00~~							
71715	10-24-00	ITCorp	A6	01-06	1-6 EP 10/25	1-6 EP 10/25						
					01-06 MJ 10/27/00	01-06 MJ 10/27/00						

QA300187
73B-05

Reviewed By:_____

Last Page of Data Report

RECEIVED
OCT 3 2000

Sample Transmittal Documentation

71643

CHAIN OF CUSTODY RECORD

WESTON
MANAGERS DESIGNERS CONSULTANTS

REMOVAL SUPPORT TEAM
EPA CONTRACT 68-W-00-113
Phone: 732-225-6116 Fax: 732-225-7037

RFP No.: 1068
PO No.: 0018332

page 1 of 2

Matrix Box No.:	Preservative Box No.:
1. Surface Water	1. HCl
2. Ground Water	2. HN03
3. Leachate	3. Na2SO4
4. Rinsate	4. H2SO4
5. Soil/Sediment	5. Other (Specify)
6. Oil	6. Ice Only
7. Waste	N. Not Preserved
8. Other (Specify)	* See Comments

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

	Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA +MTBE	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
01	250WS-IF	10/11/00 1050	2	L	G	6	X	X								+ MTBE
02	250WS-CF	1055	2	L			X	X								
03	250WS-EF	1100	2	L			X	X								
04	240WS-IF	1130	2	L			X	X								
05	240WS-CF	1135	2	L			X	X								
06	240WS-EF	1140	2	L			X	X								
07	420WS-EF	1150	2	L			X	X								
08	246WS-IF	1225	2	L			X	X								
09	246WS-CF	1230	2	L			X	X								
10	246WS-EF	1235	2	L			X	X								
11	005SR-IF	1355	2	L			X	X								MS/MSD

Comments: VOA samples are not preserved; analyze within 7-days using method 524.2

Person Assuming Responsibility for Sample: Mitkem Corporation, 175 Metro Ctr. Blvd, Warwick, RI 02886 Attn: Ben Dodge ph: 401 732-3400 — Time Date (MM/DD/YY)

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	Michael [illegible]	1800	10/11/00	Fedex Airbill # B935386040 0	Shipment
		9:00	10/12/00	[illegible]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

3°C

71643

RFP No.:	CHAIN OF CUSTODY RECORD	Matrix Box No.:	Preservative Box No.:
1068	WESTON MANAGERS DESIGNERS/CONSULTANTS	1. Surface Water	1. HCl
PO No.:	REMOVAL SUPPORT TEAM	2. Ground Water	2. HN03
0018332	EPA CONTRACT 68-W-00-113	3. Leachate	3. Na2SO4
	Phone: 732-225-6116 Fax: 732-225-7037	4. Rinsate	4. H2SO4
		5. Soil/Sediment	5. Other (Specify)
		6. Oil	6. Ice Only
		7. Waste Trip Blank	N. Not Preserved
		8. Other (Specify)	* See Comments

Page 2 of 2

Send verbal and written results to: Roy F. Weston, Inc., USEPA Region II RST
Suite 201, 1090 King Georges Post Road, Edison, New Jersey 08837-3703
Attention: Smita Sumbaly, RST Analytical Coordinator

	Sample Number	Sample Collection MM/DD/YY/Time	Sample Matrix (Enter box #)	Conc. Low-L Med-M High-H	Sample Type Comp-C Grab-G	Sample Preserv. (Enter box #s)	RAS ANALYSIS VOA +MTBE	BNA	PEST	PCBs	TAL	CN	RCRA ANALYSIS IGN	COR	REAC	OTHER
12	005SR-CF	10/11/00 1400	2	L	G	6	X	X								+MTBE
13	005SR-EF	1405	2	L	↓	↓	X	X								
14	247WS-IF	1450	2	L	↓	↓	X	X								
15	247WS-CF	1455	2	L	↓	↓	X	X								
16	247WS-EF	1500	2	L	↓	↓	X	X								
17	TB-01	10/11/00 –	8	–	G	↓	X									Trip Blank-01

Comments: VOA samples are not preserved; analyze within 7-days following Method 524.2

Person Assuming Responsibility for Sample: Mitkem Corporation 175 Metro Ctr. Blvd. Warwick, RI 02886 Attn: Ben Dodge ph: 401 732-3400

Time Date (MM/DD/YY)

Sample Number	Relinquished By:	Time	Date	Received By:	Reason for Change of Custody
All	Michael A Gaibaldi	18/00	10/11/00	Fedex Airbill # 819353860400	Shipment
		9:00	10-12-00	[signature]	

Roy F. Weston, Inc.
FEDERAL PROGRAMS DIVISION
In Association with Resource Applications, Inc., R.E. Sarriera Associates, PRC Environmental Management, C.C. Johnson & Malhotra, P.C., and GRB Environmental Services, Inc.

3°C

MITKEM CORPORATION

Lab Workorder **71643** R1

Logged In By: NR

Reviewed By: KEB

Client: **Roy F. Weston, Inc.**
Lab Workorder ID: **0018332**
Client Proj ID: **1068**
Client PO #:
Project / Profile Name: **1068**
Date Due: **10/26/00**
Customer Service: **KEB**
Del Req'd: **CLP Report (1 copy)**
Completed?:
Profile Notes: **2 copies of data summary, 1 full copy of report; SAMPLES ARENOT PRESERVED 7-DAY HT**
Project Notes: **R1: Change ID for 05**

Date Opened: **10/12/00 11:09**
Date Closed: **10/12/00 11:18**

Project Status: **WP**

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
71643001	250WS-IF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 10:50	10/12/00	10/26/00	
71643002	250WS-CF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 10:55	10/12/00	10/26/00	
71643003	250WS-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 11:00	10/12/00	10/26/00	
71643004	240WS-IF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 11:30	10/12/00	10/26/00	
71643005	240WS-CF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 11:35	10/12/00	10/26/00	
71643006	240WS-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 11:40	10/12/00	10/26/00	
71643007	420WS-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 11:50	10/12/00	10/26/00	
71643008	246WS-IF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 12:25	10/12/00	10/26/00	
71643009	246WS-CF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 12:30	10/12/00	10/26/00	
71643010	246WS-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 12:35	10/12/00	10/26/00	

007

MITKEM CORPORATION

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
71643011	005SR-IF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 13:55	10/12/00	10/26/00	
71643012	005SR-CF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 14:00	10/12/00	10/26/00	
71643013	005SR-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 14:05	10/12/00	10/26/00	
71643014	247WS-IF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 14:50	10/12/00	10/26/00	
71643015	247WS-CF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 14:55	10/12/00	10/26/00	
71643016	247WS-EF	W	SAMPLE	OLMSVOAW 524.2	10/11/00 15:00	10/12/00	10/26/00	
71643017	TB-01	W	SAMPLE	524.2	10/11/00 12:00	10/12/00	10/26/00	
71643018	005SR-IFMS	W	MS	OLMSVOAW 524.2	10/11/00 13:55	10/12/00	10/26/00	MS FOR SAMPLE 11
71643019	005SR-IFMSD	W	MSD	OLMSVOAW 524.2	10/11/00 13:55	10/12/00	10/26/00	MSD FOR SAMPLE 11

INVOICE AND REPORT GO TO:

Smita Sumblay
Roy F. Weston, Inc.
1090 King Georges Post Road
Edison, NJ, 088373703
W : (732)225-6116
F : (732)225-7037

008

MITKEM CORPORATION
Sample Condition Form

Received By: CW | Reviewed By: am | Date: 10-12-00 | MITKEM Project #: 71643 | Page 1 of 1

Client Project: 0018332 | Client: ROY F. WESTON

Condition:

1) Custody Seal(s) — Present / Absent
Coolers / Bottles
Intact / Broken

2) Custody Seal Number(s)

3) Chain-of-Custody — Present / Absent

4) Cooler Temperature — 3°c
Coolant Condition — ice

5) Airbill(s) — Fedex
Airbill Number(s) — 819353860400

6) Sample Bottles — Intact
Broken
Leaking

7) Date Received — 10-12-00

8) Time Received — 9:00

Lab Sample ID	Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Comments/Remarks/ Corrective Action*
71643 001					UA	
002						
003						
004						
005						
006						
007						
008						
009						
010						
011						
012						
013						
014						
015						
016						
017						

VOA Matrix Key:
US = Unpreserved Soil
UA = Unpreserved Aqueous
B = Both MeOH & $NaHSO_4$
Na = $NaHSO_4$
M = MeOH
E = Encore
H = HCl
A = AIR

* See Sample Notification Form yes / no

MITKEM CORPORATION

* Semivolatile Organics *

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	240WS-IF	75	74	94	73	68	91	70	54	0
02	240WS-CF	86	82	98	85	80	97	83	64	0
03	250WS-IF	77	76	95	80	73	94	77	58	0
04	250WS-CF	84	81	93	85	81	97	83	59	0
05	240WS-EF	77	76	96	74	71	90	74	58	0
06	SBLK3V	72	67	95	71	68	87	70	47	0
07	250WS-EF	78	78	97	80	74	93	78	58	0
08	420WS-EF	76	75	99	76	72	87	76	56	0
09	SBLK3D	79	77	86	82	78	83	81	69	0
10	246WS-IF	80	77	88	79	78	85	82	71	0
11	246WS-CF	76	74	86	74	75	78	77	66	0
12	246WS-EF	64	58	68	66	64	63	67	57	0
13	005SR-IF	75	75	91	74	70	84	76	67	0
14	005SR-IFMS	76	78	86	78	75	85	78	70	0
15	005SR-IFMSD	74	76	83	77	73	80	77	68	0
16	247WS-EF	74	70	77	74	74	80	75	61	0
17	247WS-CF	54	54	67	55	54	63	56	48	0
18	005SR-EF	58	56	62	60	57	59	59	50	0
19	247WS-IF	56	55	62	59	56	61	58	50	0
20	005SR-CF	58	56	62	59	57	59	59	52	0
21										
22										
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27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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.: 71643

Matrix Spike - EPA Sample No.: 005SR-IF

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0.0	57	76	12-110
2-Chlorophenol	75	0.0	57	76	27-123
N-Nitroso-di-n-prop.(1)	50	0.0	37	74	41-116
4-Chloro-3-Methylphenol	75	0.0	59	79	23- 97
Acenaphthene	50	0.0	40	80	46-118
4-Nitrophenol	75	0.0	61	81*	10- 80
2,4-Dinitrotoluene	50	0.0	41	82	24- 96
Pentachlorophenol	75	0.0	66	88	9-103
Pyrene	50	0.0	44	88	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	56	75	1	42	12-110
2-Chlorophenol	75	57	76	0	40	27-123
N-Nitroso-di-n-prop.(1)	50	35	70	6	38	41-116
4-Chloro-3-Methylphenol	75	58	77	3	42	23- 97
Acenaphthene	50	40	80	0	31	46-118
4-Nitrophenol	75	62	83*	2	50	10- 80
2,4-Dinitrotoluene	50	41	82	0	38	24- 96
Pentachlorophenol	75	62	83	6	50	9-103
Pyrene	50	43	86	2	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK3V

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5918 Lab Sample ID: S1013-BW1

Instrument ID: S3 Date Extracted: 10/13/00

Matrix: (soil/water) WATER Date Analyzed: 10/17/00

Level: (low/med) LOW Time Analyzed: 1149

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	240WS-IF	71643004	S3A5889	10/15/00
02	240WS-CF	71643005	S3A5890	10/15/00
03	250WS-IF	71643001	S3A5891	10/16/00
04	250WS-CF	71643002	S3A5892	10/16/00
05	240WS-EF	71643006	S3A5893	10/16/00
06	250WS-EF	71643003	S3A5919	10/17/00
07	420WS-EF	71643007	S3A5920	10/17/00
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COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK3D

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5986 Lab Sample ID: S1014-BW2

Instrument ID: S3 Date Extracted: 10/14/00

Matrix: (soil/water) WATER Date Analyzed: 10/23/00

Level:(low/med) LOW Time Analyzed: 1253

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	246WS-IF	71643008	S3A6007	10/24/00
02	246WS-CF	71643009	S3A6008	10/24/00
03	246WS-EF	71643010	S3A6009	10/24/00
04	005SR-IF	71643011	S3A6015	10/24/00
05	005SR-IFMS	71643018	S3A6016	10/24/00
06	005SR-IFMSD	71643019	S3A6017	10/24/00
07	247WS-EF	71643016	S3A6041	10/25/00
08	247WS-CF	71643015	S3A6042	10/25/00
09	005SR-EF	71643013	S3A6043	10/25/00
10	247WS-IF	71643014	S3A6044	10/25/00
11	005SR-CF	71643012	S3A6045	10/25/00
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COMMENTS: _____

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5214 DFTPP Injection Date: 09/08/00

Instrument ID: S3 DFTPP Injection Time: 1011

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.4 (1.0)1
69	Mass 69 relative abundance	42.4
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	25.0 - 75.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.7
365	Greater than 0.75% of mass 198	2.43
441	Present, but less than mass 443	11.6
442	40.0 - 110.0% of mass 198	83.4
443	15.0 - 24.0% of mass 442	16.2 (19.5)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	SSTD0503L	SS0908A	S3A5216	09/08/00	1119
02	SSTD1603L	SS0908B	S3A5218	09/08/00	1258
03	SSTD0803L	SS0908D	S3A5220	09/08/00	1432
04	SSTD0203L	SS0908E	S3A5221	09/08/00	1518
05	SSTD1203L	SS0908C	S3A5222	09/08/00	1605
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5880 DFTPP Injection Date: 10/15/00

Instrument ID: S3 DFTPP Injection Time: 1556

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.9 (2.0)1
69	Mass 69 relative abundance	46.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	25.0 - 75.0% of mass 198	59.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 0.75% of mass 198	2.55
441	Present, but less than mass 443	11.7
442	40.0 - 110.0% of mass 198	78.2
443	15.0 - 24.0% of mass 442	14.6 (18.7)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	SSTD0503U	SS1015C	S3A5883	10/15/00	1744
02	240WS-IF	71643004	S3A5889	10/15/00	2249
03	240WS-CF	71643005	S3A5890	10/15/00	2333
04	250WS-IF	71643001	S3A5891	10/16/00	0017
05	250WS-CF	71643002	S3A5892	10/16/00	0102
06	240WS-EF	71643006	S3A5893	10/16/00	0145
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5915 DFTPP Injection Date: 10/17/00

Instrument ID: S3 DFTPP Injection Time: 1004

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	43.1
68	Less than 2.0% of mass 69	0.2 (0.4)1
69	Mass 69 relative abundance	47.2
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	25.0 - 75.0% of mass 198	57.0
197	Less than 1.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 0.75% of mass 198	3.07
441	Present, but less than mass 443	12.4
442	40.0 - 110.0% of mass 198	84.7
443	15.0 - 24.0% of mass 442	16.1 (19.0)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	SSTD0503X	SS1017A	S3A5916	10/17/00	1021
02	SBLK3V	S1013-BW1	S3A5918	10/17/00	1149
03	250WS-EF	71643003	S3A5919	10/17/00	1234
04	420WS-EF	71643007	S3A5920	10/17/00	1317
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5961 DFTPP Injection Date: 10/20/00

Instrument ID: S3 DFTPP Injection Time: 1922

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	51.2
68	Less than 2.0% of mass 69	0.4 (0.8)1
69	Mass 69 relative abundance	48.1
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	25.0 - 75.0% of mass 198	52.6
197	Less than 1.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 0.75% of mass 198	2.84
441	Present, but less than mass 443	11.3
442	40.0 - 110.0% of mass 198	79.2
443	15.0 - 24.0% of mass 442	17.0 (21.5)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	SSTD1603B	SS1019G	S3A5962	10/20/00	2000
02	SSTD1203B	SS1019H	S3A5963	10/20/00	2140
03	SSTD0803B	SS1019J	S3A5964	10/20/00	2320
04	SSTD0503B	SS1019K	S3A5965	10/21/00	0059
05	SSTD0203B	SS1019L	S3A5966	10/21/00	0238
06					
07					
08					
09					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A5982 DFTPP Injection Date: 10/23/00

Instrument ID: S3 DFTPP Injection Time: 1039

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	50.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	49.3
197	Less than 1.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 0.75% of mass 198	1.73
441	Present, but less than mass 443	10.5
442	40.0 - 110.0% of mass 198	75.0
443	15.0 - 24.0% of mass 442	14.7 (19.6)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	SSTD0503D	SS1023A	S3A5983	10/23/00	1059
02	SBLK3D	S1014-BW2	S3A5986	10/23/00	1253
03					
04					
05					
06					
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A6004 DFTPP Injection Date: 10/24/00

Instrument ID: S3 DFTPP Injection Time: 0853

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	44.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	41.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	47.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	20.5
365	Greater than 0.75% of mass 198	2.14
441	Present, but less than mass 443	11.6
442	40.0 - 110.0% of mass 198	84.4
443	15.0 - 24.0% of mass 442	16.0 (19.0)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	SSTD0503F	SS1024A	S3A6005	10/24/00	0913
02	246WS-IF	71643008	S3A6007	10/24/00	1051
03	246WS-CF	71643009	S3A6008	10/24/00	1141
04	246WS-EF	71643010	S3A6009	10/24/00	1231
05	005SR-IF	71643011	S3A6015	10/24/00	1749
06	005SR-IFMS	71643018	S3A6016	10/24/00	1839
07	005SR-IFMSD	71643019	S3A6017	10/24/00	1928
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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Lab File ID: S3A6038 DFTPP Injection Date: 10/25/00

Instrument ID: S3 DFTPP Injection Time: 1343

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.1
68	Less than 2.0% of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	45.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	25.0 - 75.0% of mass 198	50.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.3
275	10.0 - 30.0% of mass 198	23.4
365	Greater than 0.75% of mass 198	2.51
441	Present, but less than mass 443	11.9
442	40.0 - 110.0% of mass 198	92.8
443	15.0 - 24.0% of mass 442	17.7 (19.1)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	SSTD0503J	SS1025B	S3A6039	10/25/00	1405
02	247WS-EF	71643016	S3A6041	10/25/00	1545
03	247WS-CF	71643015	S3A6042	10/25/00	1814
04	005SR-EF	71643013	S3A6043	10/25/00	1903
05	247WS-IF	71643014	S3A6044	10/25/00	1952
06	005SR-CF	71643012	S3A6045	10/25/00	2040
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

EPA Sample No. (SSTD050##): SSTD0503U Date Analyzed: 10/15/00

Lab File ID (Standard): S3A5883 Time Analyzed: 1744

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	237774	10.59	946128	13.50	570614	17.12
	UPPER LIMIT	475548	11.09	1892256	14.00	1141228	17.62
	LOWER LIMIT	118887	10.09	473064	13.00	285307	16.62
	EPA SAMPLE NO.						
01	240WS-IF	197037	10.58	735202	13.49	427926	17.12
02	240WS-CF	178267	10.58	678058	13.50	403205	17.12
03	250WS-IF	199821	10.58	764600	13.49	437678	17.12
04	250WS-CF	171846	10.58	659031	13.49	388135	17.12
05	240WS-EF	191941	10.58	730185	13.49	428382	17.12
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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.: 71643

EPA Sample No. (SSTD050##): SSTD0503U Date Analyzed: 10/15/00

Lab File ID (Standard): S3A5883 Time Analyzed: 1744

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	868441	20.10	755979	25.42	685248	28.06
	UPPER LIMIT	1736882	20.60	1511958	25.92	1370496	28.56
	LOWER LIMIT	434221	19.60	377990	24.92	342624	27.56
	EPA SAMPLE NO.						
01	240WS-IF	673155	20.10	569391	25.41	544767	28.05
02	240WS-CF	634303	20.10	536262	25.41	504237	28.05
03	250WS-IF	704662	20.10	605716	25.41	556794	28.05
04	250WS-CF	638686	20.10	593302	25.40	560779	28.05
05	240WS-EF	682476	20.10	578829	25.41	541842	28.05
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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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

EPA Sample No. (SSTD050##): SSTD0503X Date Analyzed: 10/17/00

Lab File ID (Standard): S3A5916 Time Analyzed: 1021

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	286805	10.48	1120042	13.41	665037	17.04
	UPPER LIMIT	573610	10.98	2240084	13.91	1330074	17.54
	LOWER LIMIT	143403	9.98	560021	12.91	332519	16.54
	EPA SAMPLE NO.						
01	SBLK3V	211989	10.48	796411	13.41	464575	17.03
02	250WS-EF	221239	10.48	829475	13.41	476335	17.03
03	420WS-EF	222133	10.48	831860	13.41	479959	17.03
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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.: 71643

EPA Sample No. (SSTD050##): SSTD0503X Date Analyzed: 10/17/00

Lab File ID (Standard): S3A5916 Time Analyzed: 1021

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1056364	20.01	970501	25.32	889014	27.96
	UPPER LIMIT	2112728	20.51	1941002	25.82	1778028	28.46
	LOWER LIMIT	528182	19.51	485251	24.82	444507	27.46
	EPA SAMPLE NO.						
01	SBLK3V	738038	20.00	668956	25.31	642870	27.95
02	250WS-EF	752304	20.00	665144	25.31	628881	27.95
03	420WS-EF	771348	20.00	678716	25.31	626463	27.95
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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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

EPA Sample No. (SSTD050##): SSTD0503D Date Analyzed: 10/23/00

Lab File ID (Standard): S3A5983 Time Analyzed: 1059

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	371549	13.84	1399517	16.57	784164	20.24
	UPPER LIMIT	743098	14.34	2799034	17.07	1568328	20.74
	LOWER LIMIT	185775	13.34	699759	16.07	392082	19.74
	EPA SAMPLE NO.						
01	SBLK3D	259341	13.84	984725	16.56	553913	20.24
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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.: 71643

EPA Sample No. (SSTD050##): SSTD0503D Date Analyzed: 10/23/00

Lab File ID (Standard): S3A5983 Time Analyzed: 1059

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1248072	23.34	979194	28.82	845930	32.33
	UPPER LIMIT	2496144	23.84	1958388	29.32	1691860	32.83
	LOWER LIMIT	624036	22.84	489597	28.32	422965	31.83
	EPA SAMPLE NO.						
01	SBLK3D	891447	23.33	729465	28.81	672041	32.31
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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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

EPA Sample No. (SSTD050##): SSTD0503F Date Analyzed: 10/24/00

Lab File ID (Standard): S3A6005 Time Analyzed: 0913

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	282945	13.81	1089889	16.54	618748	20.21
	UPPER LIMIT	565890	14.31	2179778	17.04	1237496	20.71
	LOWER LIMIT	141473	13.31	544945	16.04	309374	19.71
	EPA SAMPLE NO.						
01	246WS-IF	193123	13.82	736301	16.53	415034	20.22
02	246WS-CF	185009	13.81	685537	16.54	393458	20.21
03	246WS-EF	197010	13.81	758782	16.54	459708	20.21
04	005SR-IF	191026	13.82	719260	16.54	406572	20.21
05	005SR-IFMS	196579	13.81	744846	16.54	420171	20.21
06	005SR-IFMSD	207609	13.81	784545	16.54	447824	20.21
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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.: 71643

EPA Sample No. (SSTD050##): SSTD0503F Date Analyzed: 10/24/00

Lab File ID (Standard): S3A6005 Time Analyzed: 0913

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1010037	23.31	858467	28.79	756140	32.27
	UPPER LIMIT	2020074	23.81	1716934	29.29	1512280	32.77
	LOWER LIMIT	505019	22.81	429234	28.29	378070	31.77
	EPA SAMPLE NO.						
01	246WS-IF	691446	23.30	587065	28.78	537998	32.27
02	246WS-CF	647997	23.30	547325	28.79	496834	32.27
03	246WS-EF	760936	23.31	655494	28.78	591439	32.27
04	005SR-IF	661899	23.30	557613	28.79	520282	32.27
05	005SR-IFMS	680818	23.30	574950	28.79	519195	32.27
06	005SR-IFMSD	751642	23.30	628367	28.79	576289	32.26
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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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

EPA Sample No. (SSTD050##): SSTD0503J Date Analyzed: 10/25/00

Lab File ID (Standard): S3A6039 Time Analyzed: 1405

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	213855	13.74	784102	16.47	431749	20.14
	UPPER LIMIT	427710	14.24	1568204	16.97	863498	20.64
	LOWER LIMIT	106928	13.24	392051	15.97	215875	19.64
	EPA SAMPLE NO.						
01	247WS-EF	236746	13.73	886541	16.46	494292	20.13
02	247WS-CF	193411	13.73	714618	16.46	390989	20.13
03	005SR-EF	285141	13.73	1069649	16.46	601520	20.13
04	247WS-IF	265057	13.73	995034	16.46	551983	20.13
05	005SR-CF	323961	13.73	1211397	16.46	678909	20.13
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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.: 71643

EPA Sample No. (SSTD050##): SSTD0503J Date Analyzed: 10/25/00

Lab File ID (Standard): S3A6039 Time Analyzed: 1405

Instrument ID: S3 GC Column: DB-5MS ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	680593	23.22	543990	28.70	473991	32.13
	UPPER LIMIT	1361186	23.72	1087980	29.20	947982	32.63
	LOWER LIMIT	340297	22.72	271995	28.20	236996	31.63
	EPA SAMPLE NO.						
01	247WS-EF	793938	23.22	653000	28.69	575705	32.12
02	247WS-CF	623380	23.22	514273	28.70	471902	32.13
03	005SR-EF	974955	23.22	785575	28.70	715517	32.13
04	247WS-IF	896779	23.22	732818	28.69	653776	32.12
05	005SR-CF	1096774	23.22	880123	28.70	807242	32.12
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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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6045

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U J
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6045

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6045

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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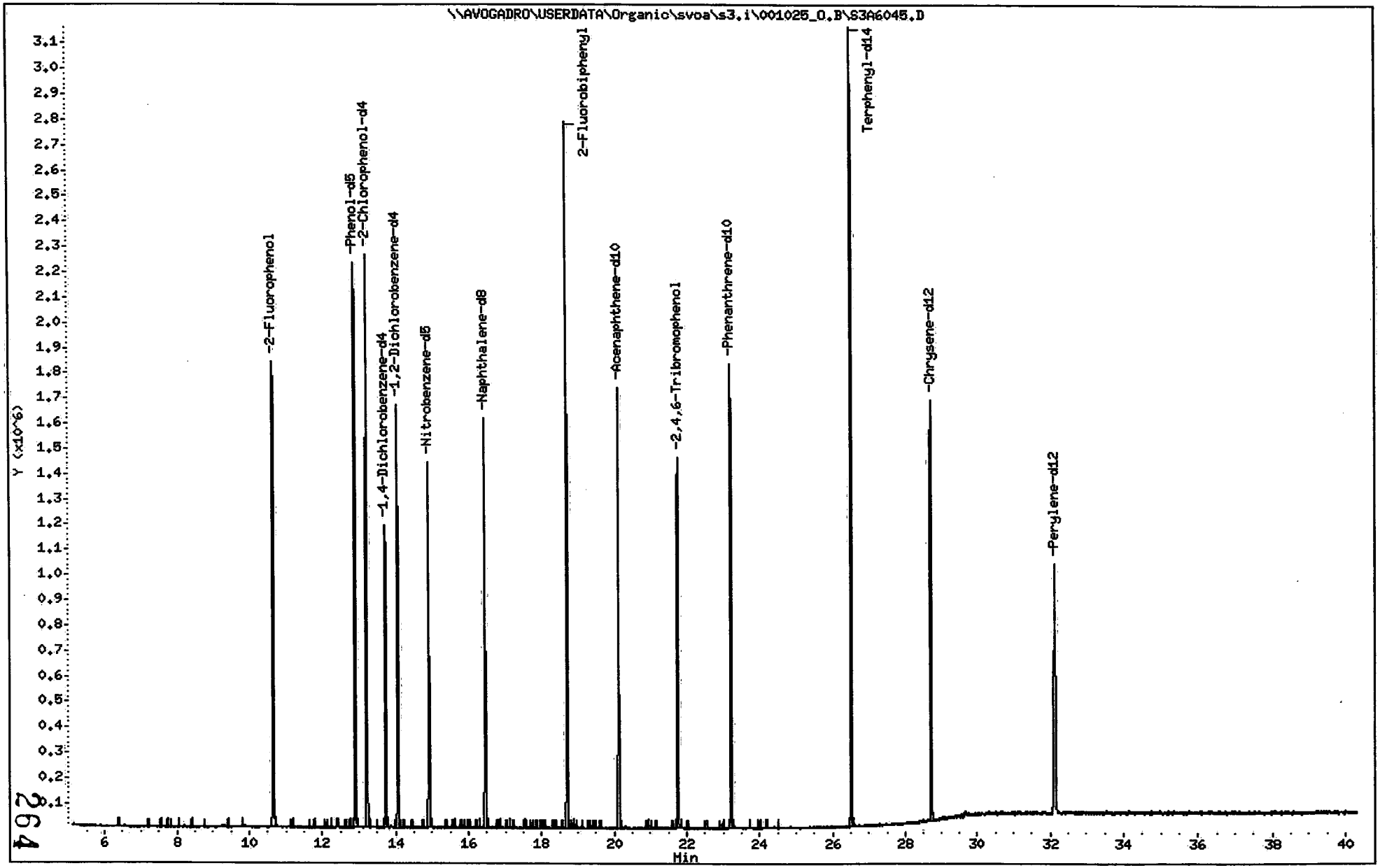
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6045.D
Date : 25-OCT-2000 20:40
Client ID: 005SR-CF
Sample Info: 71643012,005SR-CF,S1014-BW2,QY,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: QY
Column diameter: 0.25



Data File: S3A6045.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6045.D
Lab Smp Id: 71643012 Client Smp ID: 005SR-CF
Inj Date : 25-OCT-2000 20:40
Operator : QY Inst ID: s3.i
Smp Info : 71643012,005SR-CF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.661	10.670	(0.776)	1005986	85.4937	43
$ 3 Phenol-d5	99	12.910	12.914	(0.940)	1337426	89.0540	45
$ 6 2-Chlorophenol-d4	132	13.220	13.229	(0.963)	1093462	88.4749	44
* 8 1,4-Dichlorobenzene-d4	152	13.733	13.742	(1.000)	323961	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.064	14.073	(1.024)	455060	52.0489	26
$ 16 Nitrobenzene-d5	82	14.924	14.933	(0.907)	752529	58.1579	29
* 23 Naphthalene-d8	136	16.457	16.466	(1.000)	1211397	40.0000	
$ 33 2-Fluorobiphenyl	172	18.717	18.720	(0.930)	1482407	55.8020	28
* 41 Acenaphthene-d10	164	20.132	20.136	(1.000)	678909	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.762	21.771	(0.937)	236164	88.0261	44
* 58 Phenanthrene-d10	188	23.220	23.224	(1.000)	1096774	40.0000	
$ 65 Terphenyl-d14	244	26.516	26.520	(0.924)	1614029	62.4497	31
* 70 Chrysene-d12	240	28.696	28.705	(1.000)	880123	40.0000	
* 76 Perylene-d12	264	32.120	32.129	(1.000)	807242	40.0000	

10/26/00

Data File: S3A6045.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6045.D
Lab Smp Id: 71643012 Client Smp ID: 005SR-CF
Inj Date : 25-OCT-2000 20:40
Operator : QY Inst ID: s3.i
Smp Info : 71643012,005SR-CF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6043

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U J
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6043

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6043

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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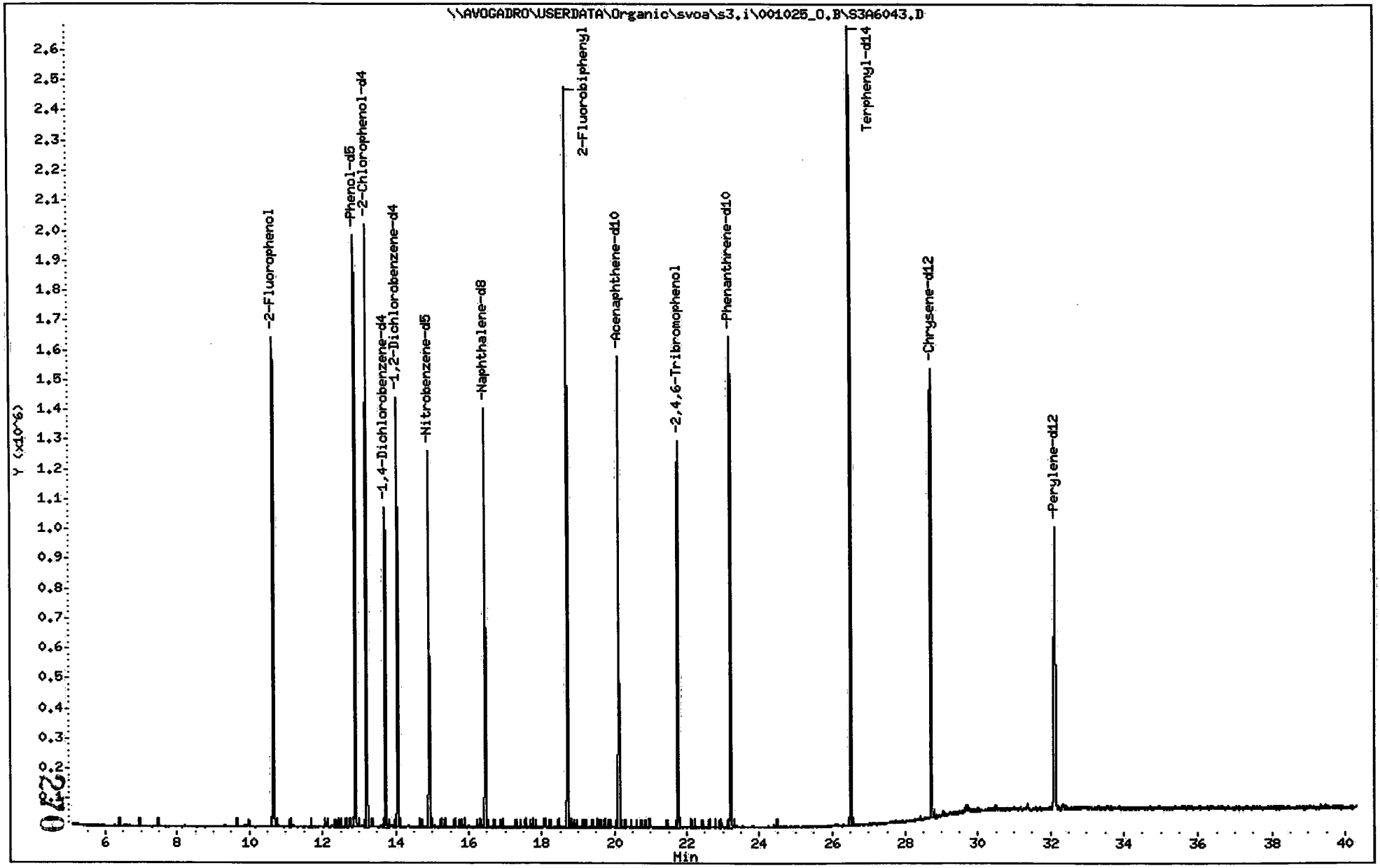
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6043.D
Date : 25-OCT-2000 19:03
Client ID: 005SR-EF
Sample Info: 71643013,005SR-EF,S1014-BW2,QY,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: QY
Column diameter: 0.25



Data File: S3A6043.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6043.D
Lab Smp Id: 71643013 Client Smp ID: 005SR-EF
Inj Date : 25-OCT-2000 19:03
Operator : QY Inst ID: s3.i
Smp Info : 71643013,005SR-EF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.662	10.670	(0.776)	882096	85.1708	43
$ 3 Phenol-d5	99	12.911	12.914	(0.940)	1194801	90.3884	45
$ 6 2-Chlorophenol-d4	132	13.221	13.229	(0.963)	969952	89.1661	45
* 8 1,4-Dichlorobenzene-d4	152	13.733	13.742	(1.000)	285141	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.065	14.073	(1.024)	387935	50.4121	25
$ 16 Nitrobenzene-d5	82	14.925	14.933	(0.907)	658146	57.6041	29
* 23 Naphthalene-d8	136	16.458	16.466	(1.000)	1069649	40.0000	
$ 33 2-Fluorobiphenyl	172	18.718	18.720	(0.930)	1310047	55.6584	28
* 41 Acenaphthene-d10	164	20.133	20.136	(1.000)	601520	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.763	21.771	(0.937)	210376	88.2118	44
* 58 Phenanthrene-d10	188	23.221	23.224	(1.000)	974955	40.0000	
$ 65 Terphenyl-d14	244	26.517	26.520	(0.924)	1420647	61.5830	31
* 70 Chrysene-d12	240	28.697	28.705	(1.000)	785575	40.0000	
* 76 Perylene-d12	264	32.126	32.129	(1.000)	715517	40.0000	

P 10/26/00

Data File: S3A6043.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6043.D
Lab Smp Id: 71643013 | Client Smp ID: 005SR-EF
Inj Date : 25-OCT-2000 19:03
Operator : QY | Inst ID: s3.i
Smp Info : 71643013,005SR-EF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl | Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 | Cal File: S3A6039.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE | Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6015

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6015

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

005SR-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6015

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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28.				
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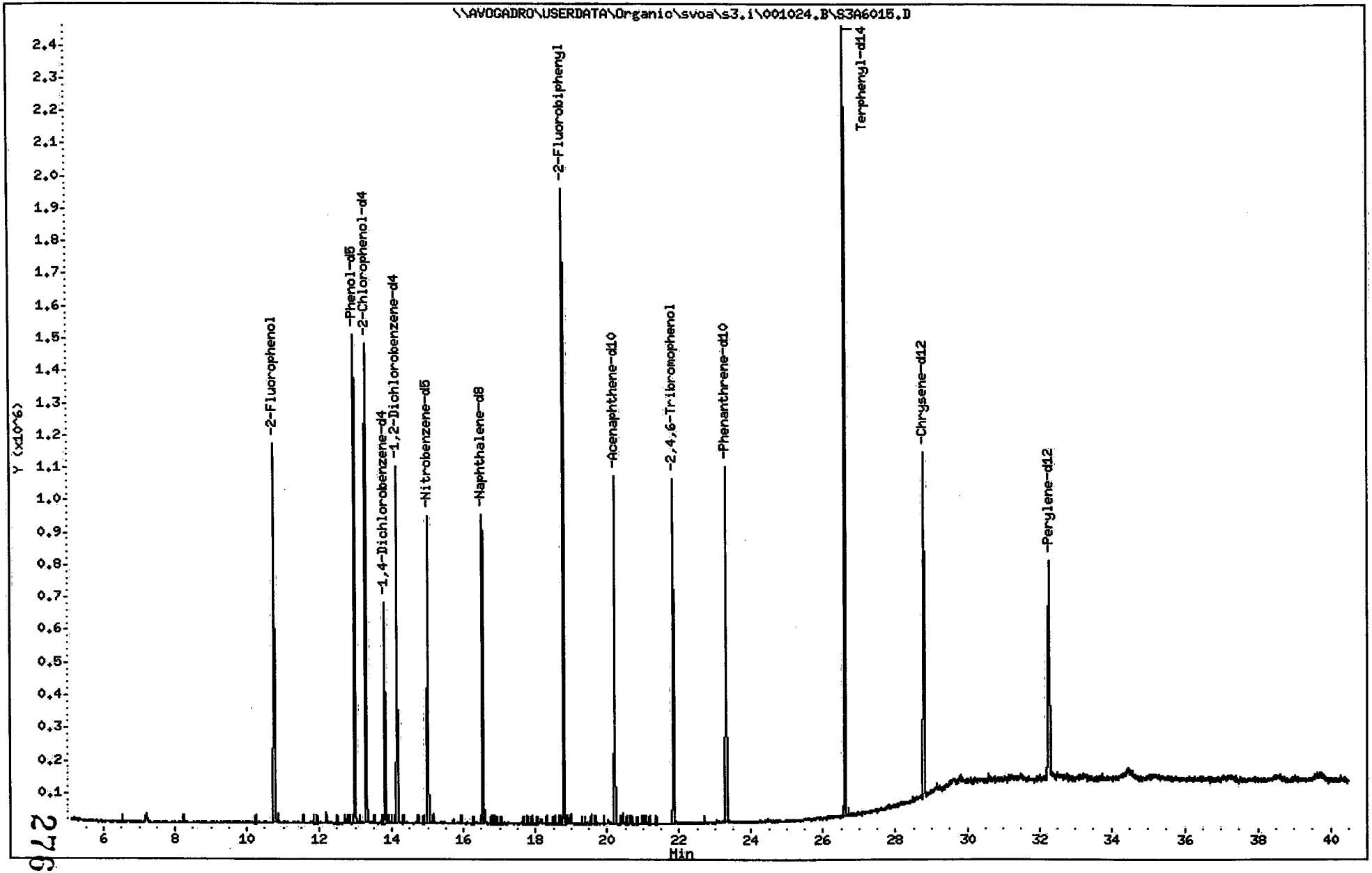
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6015.D
Date : 24-OCT-2000 17:49
Client ID: 005SR-IF
Sample Info: 71643011,005SR-IF,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6015.D
Report Date: 26-Oct-2000 10:25

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6015.D
Lab Smp Id: 71643011 Client Smp ID: 005SR-IF
Inj Date : 24-OCT-2000 17:49
Operator : RC Inst ID: s3.i
Smp Info : 71643011,005SR-IF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.756	10.751	(0.778)	642554	104.885	52
$ 3 Phenol-d5	99	12.989	12.990	(0.940)	895535	110.939	55
$ 6 2-Chlorophenol-d4	132	13.305	13.305	(0.963)	740559	113.690	57
* 8 1,4-Dichlorobenzene-d4	152	13.817	13.812	(1.000)	191026	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.149	14.143	(1.024)	304979	67.4922	34
$ 16 Nitrobenzene-d5	82	15.003	15.004	(0.907)	507603	74.7481	37
* 23 Naphthalene-d8	136	16.536	16.537	(1.000)	719260	40.0000	
$ 33 2-Fluorobiphenyl	172	18.796	18.796	(0.930)	1018257	74.6448	37
* 41 Acenaphthene-d10	164	20.212	20.212	(1.000)	406572	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.847	21.847	(0.937)	175830	125.282	63
* 58 Phenanthrene-d10	188	23.305	23.305	(1.000)	661899	40.0000	
$ 65 Terphenyl-d14	244	26.601	26.601	(0.924)	1269869	91.2816	46
68 bis(2-Ethylhexyl)phthalate	149	28.759	28.765	(0.999)	84463	5.96446	3(aH)
* 70 Chrysene-d12	240	28.786	28.792	(1.000)	557613	40.0000	

10/26/00

Data File: S3A6015.D
Report Date: 26-Oct-2000 10:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 76 Perylene-d12	264	32.274	32.275	(1.000)	520282	40.0000	

QC Flag Legend

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

Data File: S3A6015.D
Report Date: 26-Oct-2000 10:25

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6015.D
Lab Smp Id: 71643011 Client Smp ID: 005SR-IF
Inj Date : 24-OCT-2000 17:49
Operator : RC Inst ID: s3.i
Smp Info : 71643011,005SR-IF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6015.D

Date : 24-OCT-2000 17:49

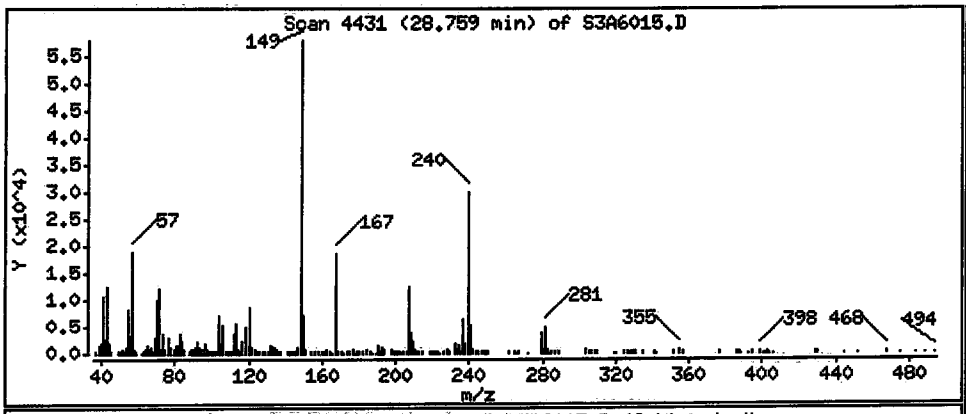
Client ID: 005SR-IF | Instrument: s3.i

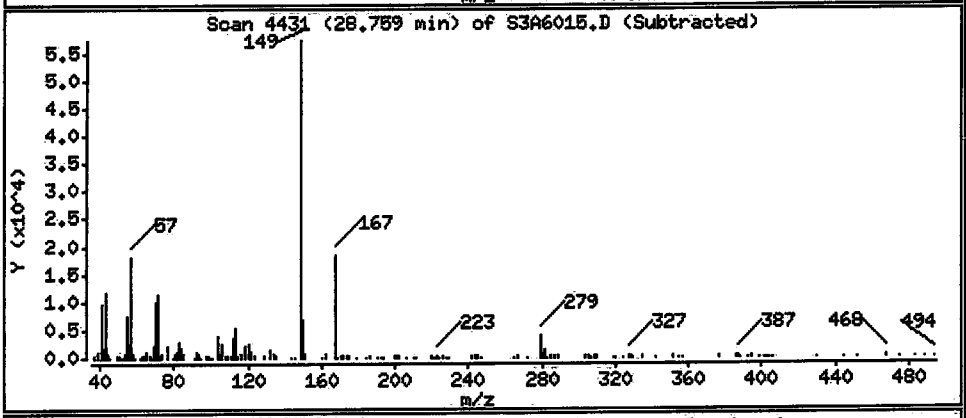
Sample Info: 71643011,005SR-IF,S1014-BW2,RC,,71643

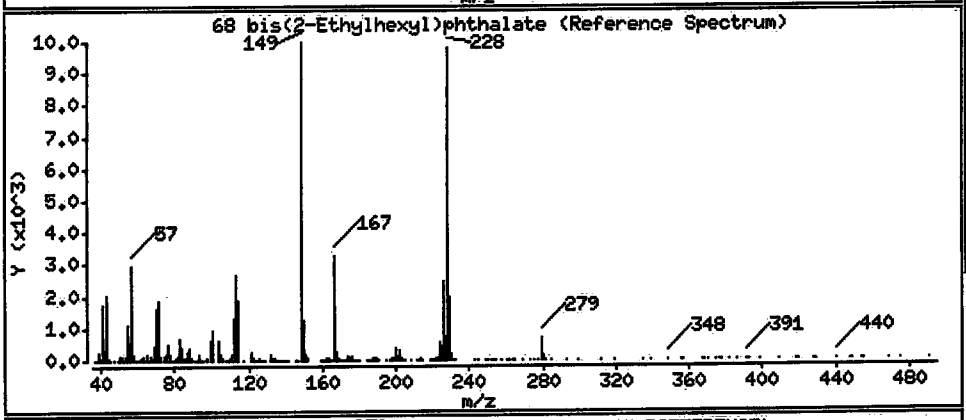
Volume Injected (uL): 2.0 | Operator: RC

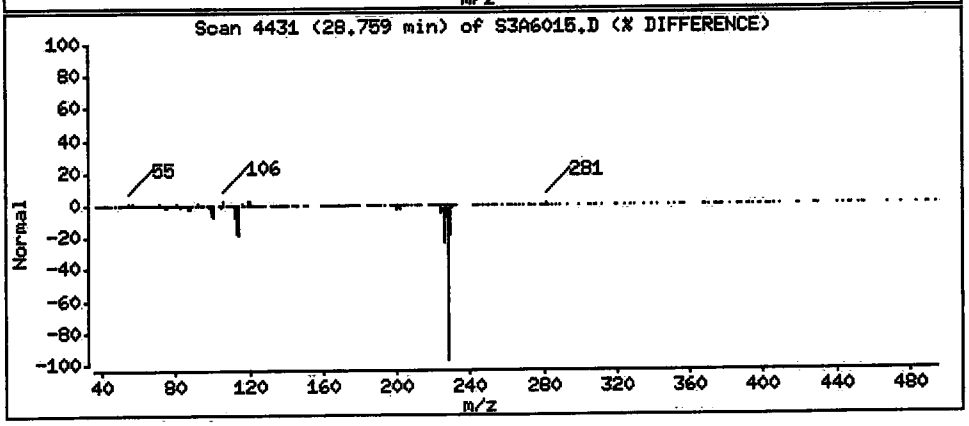
Column phase: DB-5MS | Column diameter: 0.25

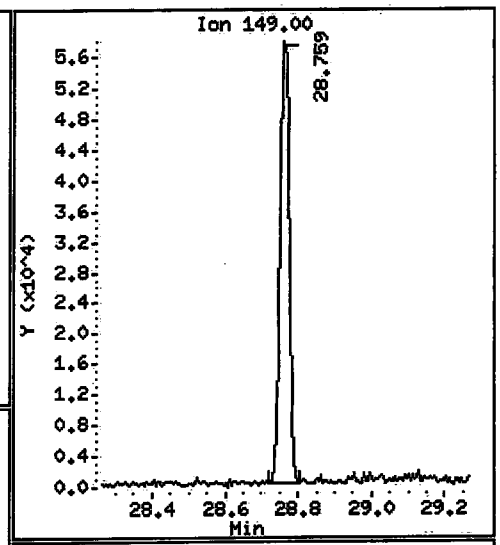
68 bis(2-Ethylhexyl)phthalate | Concentration: 3 ug/L

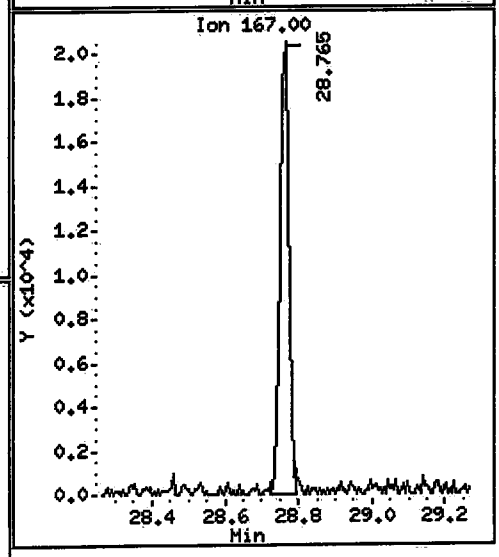












1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5890

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5890

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

240WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643005

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5890

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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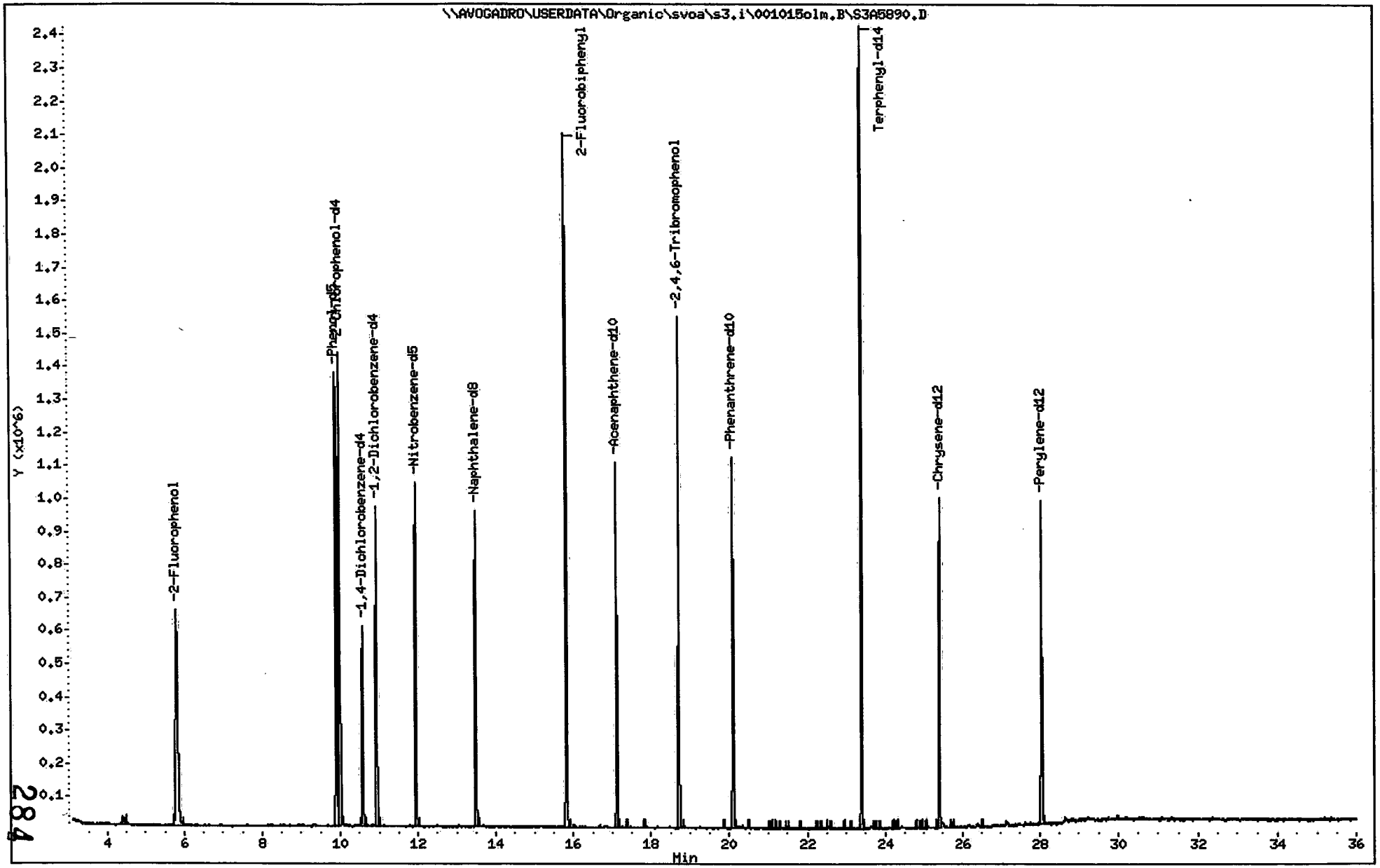
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5890.D
Date : 15-OCT-2000 23:33
Client ID: 240WS-CF
Sample Info: 71643005,240WS-CF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5890.D
Report Date: 26-Oct-2000 10:16

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5890.D
Lab Smp Id: 71643005 Client Smp ID: 240WS-CF
Inj Date : 15-OCT-2000 23:33
Operator : CS Inst ID: s3.i
Smp Info : 71643005,240WS-CF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.805	5.806	(0.548)	681579	120.147	60
$ 3 Phenol-d5	99	9.906	9.913	(0.936)	861612	126.809	63
$ 6 2-Chlorophenol-d4	132	9.992	9.993	(0.944)	765736	124.596	62
* 8 1,4-Dichlorobenzene-d4	152	10.585	10.586	(1.000)	178267	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.937	10.944	(1.033)	266285	64.2710	32
$ 16 Nitrobenzene-d5	82	11.952	11.953	(0.886)	563672	85.6109	43
* 23 Naphthalene-d8	136	13.496	13.497	(1.000)	678058	40.0000	
$ 33 2-Fluorobiphenyl	172	15.830	15.831	(0.925)	1008067	81.8143	41
* 41 Acenaphthene-d10	164	17.122	17.123	(1.000)	403205	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.725	18.726	(0.932)	217876	145.718	73
* 58 Phenanthrene-d10	188	20.097	20.104	(1.000)	634303	40.0000	
$ 65 Terphenyl-d14	244	23.403	23.404	(0.921)	1198883	97.6000	49
* 70 Chrysene-d12	240	25.406	25.418	(1.000)	536262	40.0000	
* 76 Perylene-d12	264	28.050	28.057	(1.000)	504237	40.0000	

10/26/00

Data File: S3A5890.D
Report Date: 26-Oct-2000 10:16

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5890.D
Lab Smp Id: 71643005 Client Smp ID: 240WS-CF
Inj Date : 15-OCT-2000 23:33
Operator : CS Inst ID: s3.i
Smp Info : 71643005,240WS-CF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5893

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5893

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

240WS-EF

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5893

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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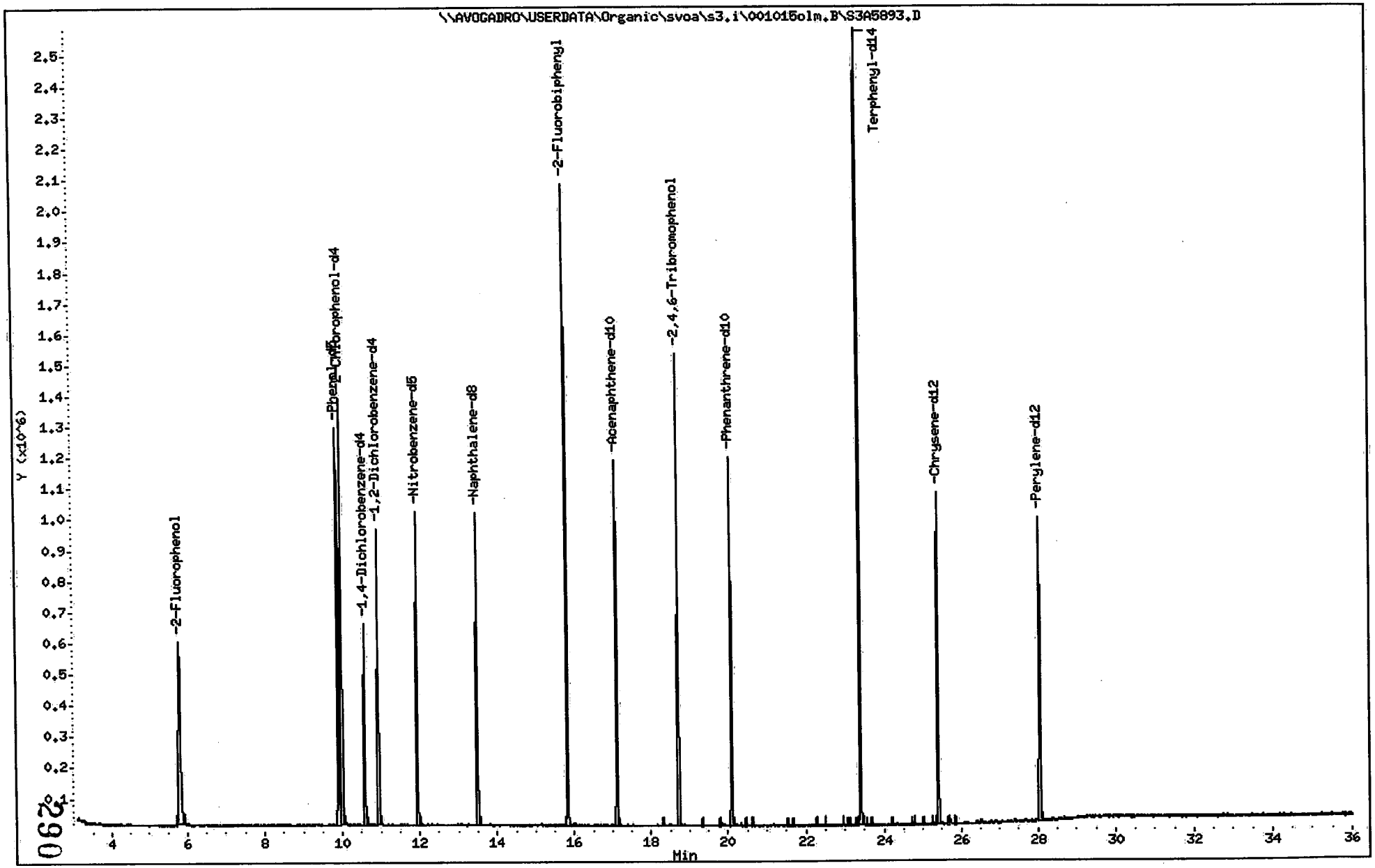
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5893.D
Date : 16-OCT-2000 01:45
Client ID: 240WS-EF
Sample Info: 71643006,240WS-EF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5893.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5893.D
Lab Smp Id: 71643006 Client Smp ID: 240WS-EF
Inj Date : 16-OCT-2000 01:45
Operator : CS Inst ID: s3.i
Smp Info : 71643006,240WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.795	5.806	(0.548)	648383	106.153	53
$ 3 Phenol-d5	99	9.903	9.913	(0.936)	815155	111.425	56
$ 6 2-Chlorophenol-d4	132	9.993	9.993	(0.944)	738984	111.677	56
* 8 1,4-Dichlorobenzene-d4	152	10.581	10.586	(1.000)	191941	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.939	10.944	(1.034)	260831	58.4697	29
$ 16 Nitrobenzene-d5	82	11.948	11.953	(0.886)	545060	76.8743	38
* 23 Naphthalene-d8	136	13.492	13.497	(1.000)	730185	40.0000	
$ 33 2-Fluorobiphenyl	172	15.826	15.831	(0.924)	999908	76.3826	38
* 41 Acenaphthene-d10	164	17.118	17.123	(1.000)	428382	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.721	18.726	(0.931)	216113	134.337	67
* 58 Phenanthrene-d10	188	20.099	20.104	(1.000)	682476	40.0000	
$ 65 Terphenyl-d14	244	23.405	23.404	(0.921)	1269157	95.7228	48
* 70 Chrysene-d12	240	25.408	25.418	(1.000)	578829	40.0000	
* 76 Perylene-d12	264	28.052	28.057	(1.000)	541842	40.0000	

P 10/26/00

Data File: S3A5893.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5893.D
Lab Smp Id: 71643006 Client Smp ID: 240WS-EF
Inj Date : 16-OCT-2000 01:45
Operator : CS Inst ID: s3.i
Smp Info : 71643006,240WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5889

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5889

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

240WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643004

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5889

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/15/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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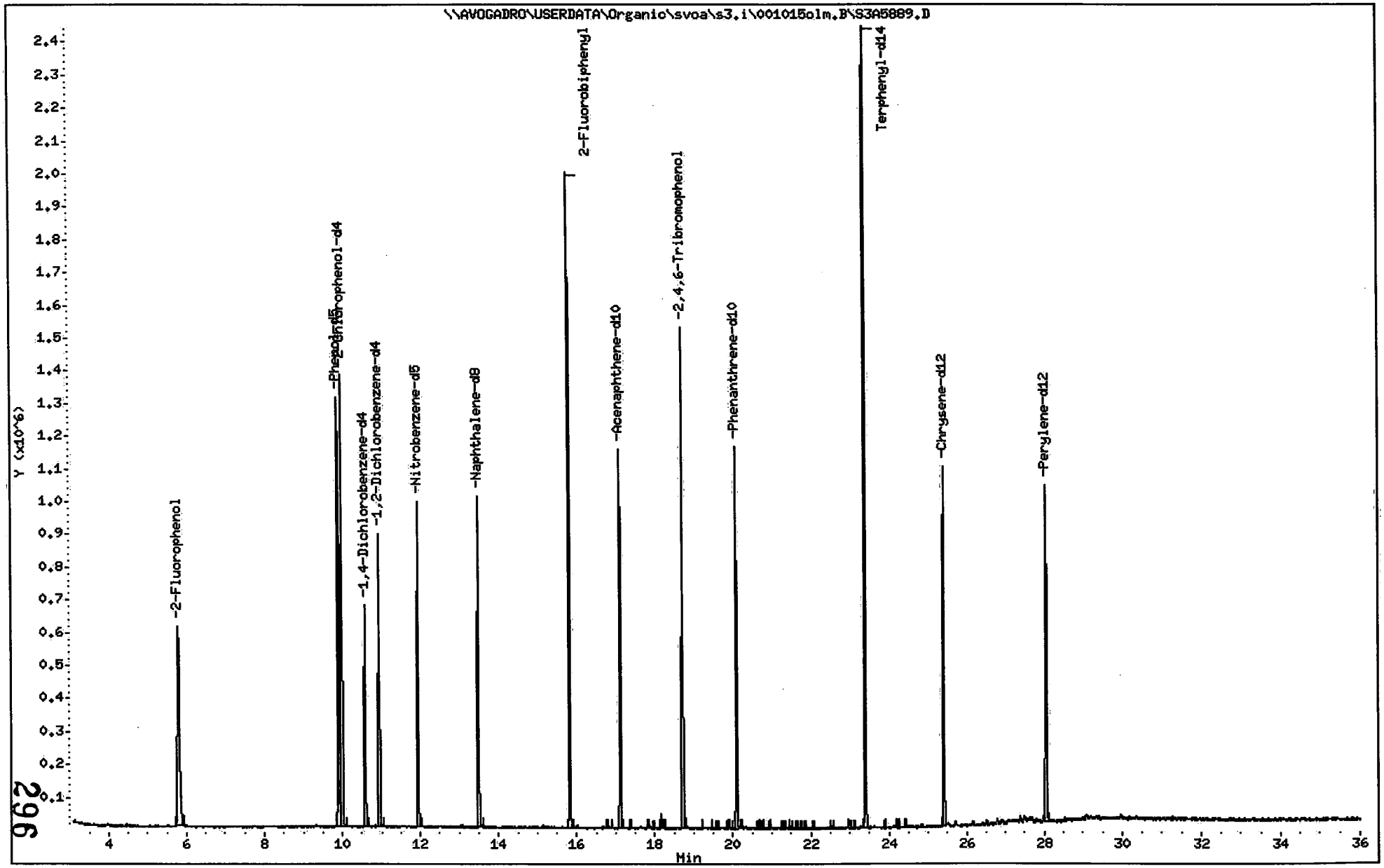
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5889.D
Date : 15-OCT-2000 22:49
Client ID: 240WS-IF
Sample Info: 71643004,240WS-IF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5889.D
Report Date: 26-Oct-2000 10:16

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5889.D
Lab Smp Id: 71643004 Client Smp ID: 240WS-IF
Inj Date : 15-OCT-2000 22:49
Operator : CS Inst ID: s3.i
Smp Info : 71643004,240WS-IF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.801	5.806	(0.548)	639006	101.912	51
$ 3 Phenol-d5	99	9.908	9.913	(0.936)	823701	109.681	55
$ 6 2-Chlorophenol-d4	132	9.993	9.993	(0.944)	718106	105.715	53
* 8 1,4-Dichlorobenzene-d4	152	10.581	10.586	(1.000)	197037	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.939	10.944	(1.034)	247259	53.9938	27
$ 16 Nitrobenzene-d5	82	11.948	11.953	(0.886)	533607	74.7454	37
* 23 Naphthalene-d8	136	13.492	13.497	(1.000)	735202	40.0000	
$ 33 2-Fluorobiphenyl	172	15.831	15.831	(0.925)	967196	73.9625	37
* 41 Acenaphthene-d10	164	17.124	17.123	(1.000)	427926	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.726	18.726	(0.932)	217545	137.099	69
* 58 Phenanthrene-d10	188	20.099	20.104	(1.000)	673155	40.0000	
$ 65 Terphenyl-d14	244	23.405	23.404	(0.921)	1221363	93.6449	47
* 70 Chrysene-d12	240	25.408	25.418	(1.000)	569391	40.0000	
* 76 Perylene-d12	264	28.052	28.057	(1.000)	544767	40.0000	

10/26/00

Data File: S3A5889.D
Report Date: 26-Oct-2000 10:16

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5889.D
Lab Smp Id: 71643004 Client Smp ID: 240WS-IF
Inj Date : 15-OCT-2000 22:49
Operator : CS Inst ID: s3.i
Smp Info : 71643004,240WS-IF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6008

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6008

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6008

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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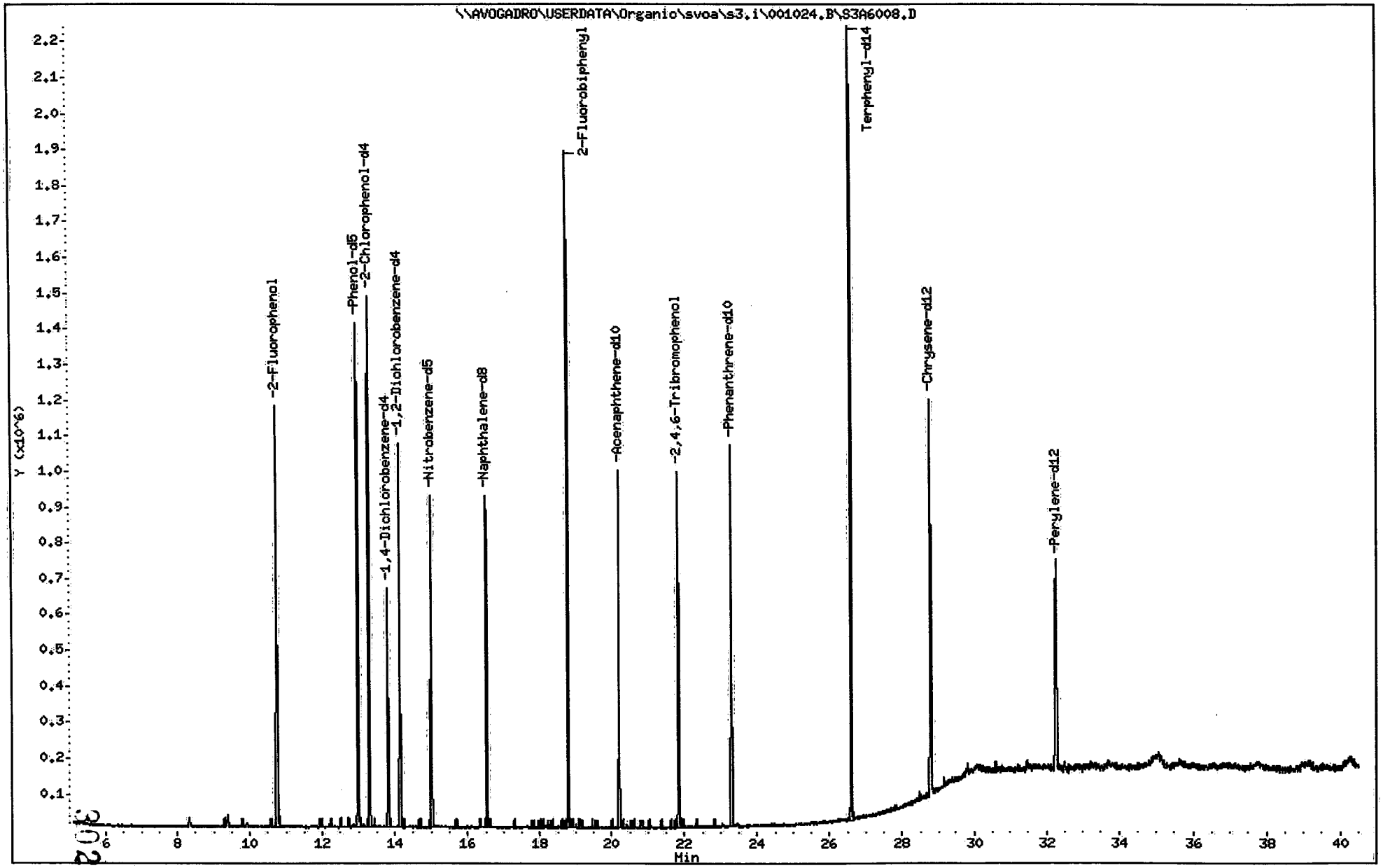
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6008.D
Date : 24-OCT-2000 11:41
Client ID: 246WS-CF
Sample Info: 71643009,246WS-CF,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6008.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6008.D
Lab Smp Id: 71643009 Client Smp ID: 246WS-CF
Inj Date : 24-OCT-2000 11:41
Operator : RC Inst ID: s3.i
Smp Info : 71643009,246WS-CF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.751	10.751	(0.778)	664392	111.977	56
$ 3 Phenol-d5	99	12.989	12.990	(0.940)	873261	111.698	56
$ 6 2-Chlorophenol-d4	132	13.304	13.305	(0.963)	730007	115.715	58
* 8 1,4-Dichlorobenzene-d4	152	13.812	13.812	(1.000)	185009	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.143	14.143	(1.024)	290311	66.3356	33
$ 16 Nitrobenzene-d5	82	15.003	15.004	(0.907)	494077	76.3353	38
* 23 Naphthalene-d8	136	16.536	16.537	(1.000)	685537	40.0000	
$ 33 2-Fluorobiphenyl	172	18.796	18.796	(0.930)	982040	74.3893	37
* 41 Acenaphthene-d10	164	20.211	20.212	(1.000)	393458	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.846	21.847	(0.937)	159843	116.334	58
* 58 Phenanthrene-d10	188	23.305	23.305	(1.000)	647997	40.0000	
$ 65 Terphenyl-d14	244	26.601	26.601	(0.924)	1169386	85.6387	43
* 70 Chrysene-d12	240	28.786	28.792	(1.000)	547325	40.0000	
* 76 Perylene-d12	264	32.269	32.275	(1.000)	496834	40.0000	

10/26/00

Data File: S3A6008.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6008.D
Lab Smp Id: 71643009 Client Smp ID: 246WS-CF
Inj Date : 24-OCT-2000 11:41
Operator : RC Inst ID: s3.i
Smp Info : 71643009,246WS-CF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6009

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000(uL) Date Analyzed: 10/24/00

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6009

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6009

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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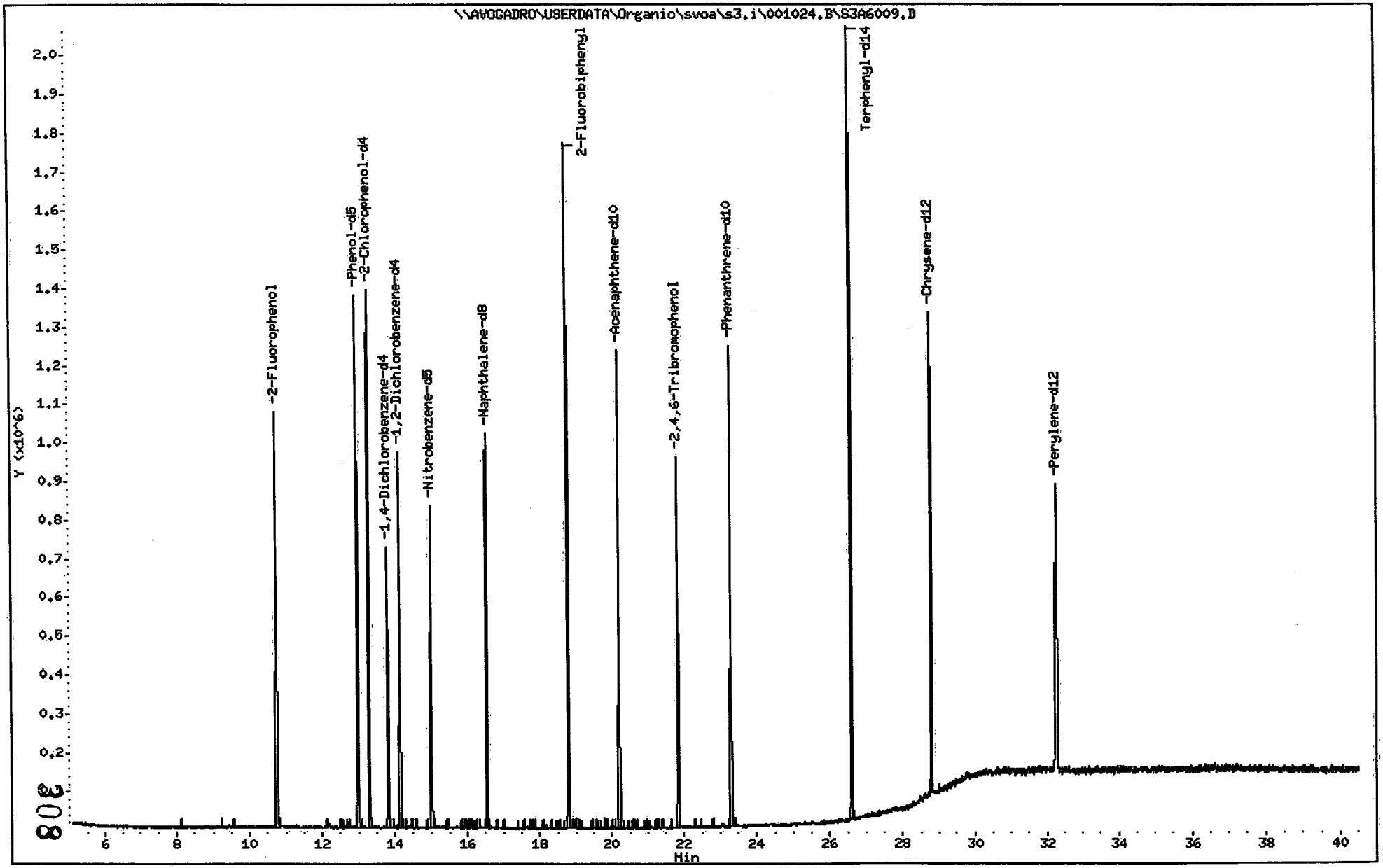
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6009.D
Date : 24-OCT-2000 12:31
Client ID: 246WS-EF
Sample Info: 71643010,246WS-EF,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6009.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6009.D
Lab Smp Id: 71643010 Client Smp ID: 246WS-EF
Inj Date : 24-OCT-2000 12:31
Operator : RC Inst ID: s3.i
Smp Info : 71643010,246WS-EF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.753	10.751	(0.778)	610795	96.6725	48
$ 3 Phenol-d5	99	12.986	12.990	(0.940)	818700	98.3403	49
$ 6 2-Chlorophenol-d4	132	13.302	13.305	(0.963)	670594	99.8218	50
* 8 1,4-Dichlorobenzene-d4	152	13.814	13.812	(1.000)	197010	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.146	14.143	(1.024)	265376	56.9442	28
$ 16 Nitrobenzene-d5	82	15.006	15.004	(0.907)	456722	63.7524	32
* 23 Naphthalene-d8	136	16.539	16.537	(1.000)	758782	40.0000	
$ 33 2-Fluorobiphenyl	172	18.793	18.796	(0.930)	899654	58.3275	29
* 41 Acenaphthene-d10	164	20.214	20.212	(1.000)	459708	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.844	21.847	(0.937)	153335	95.0342	48
* 58 Phenanthrene-d10	188	23.307	23.305	(1.000)	760936	40.0000	
$ 65 Terphenyl-d14	244	26.598	26.601	(0.924)	1114602	68.1567	34
* 70 Chrysene-d12	240	28.783	28.792	(1.000)	655494	40.0000	
* 76 Perylene-d12	264	32.272	32.275	(1.000)	591439	40.0000	

10/26/00

K

Data File: S3A6009.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6009.D
Lab Smp Id: 71643010 Client Smp ID: 246WS-EF
Inj Date : 24-OCT-2000 12:31
Operator : RC Inst ID: s3.i
Smp Info : 71643010,246WS-EF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643008

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6007

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643008

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6007

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

246WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643008

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6007

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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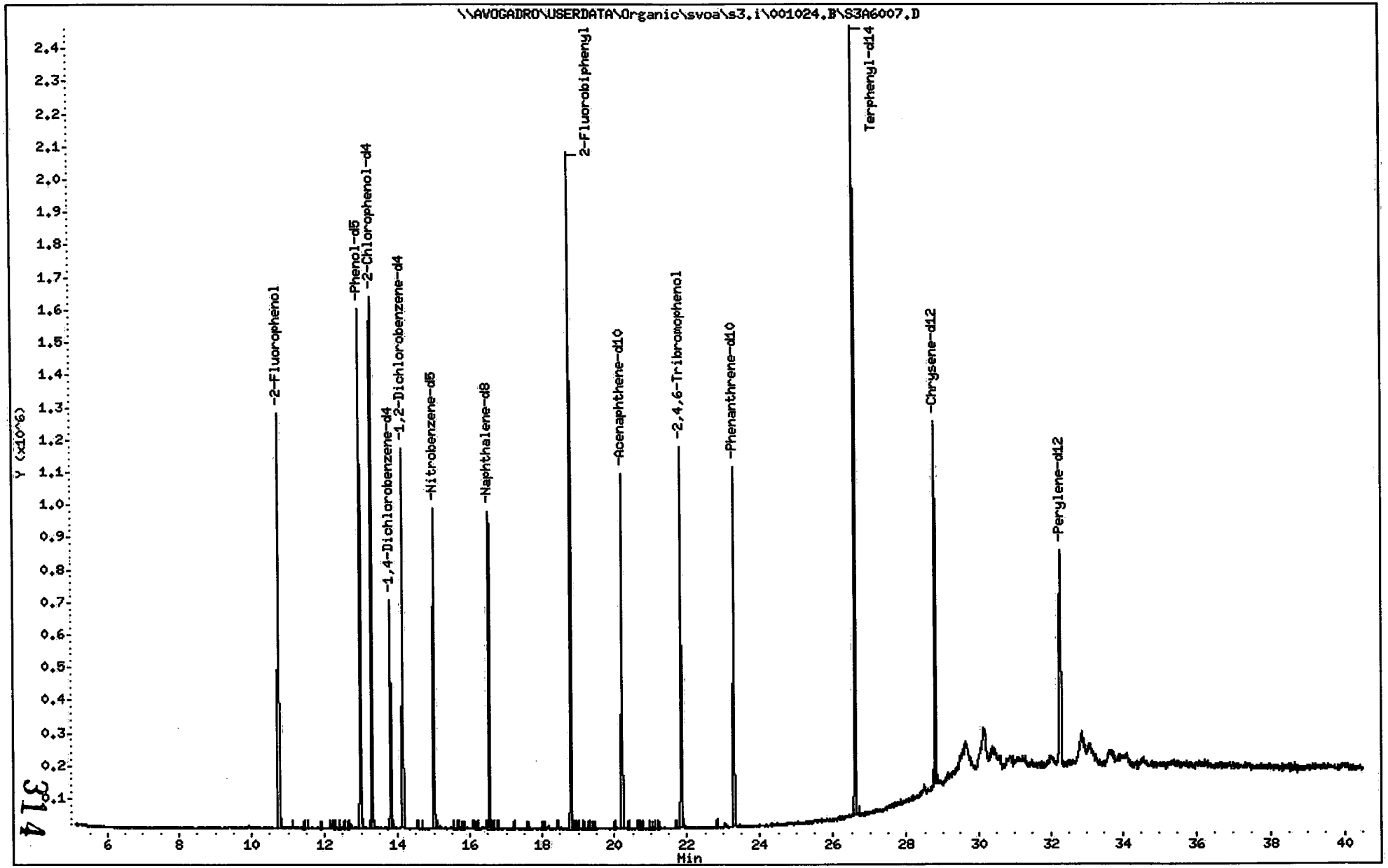
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6007.D
Date : 24-OCT-2000 10:51
Client ID: 246WS-IF
Sample Info: 71643008,246WS-IF,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6007.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6007.D
Lab Smp Id: 71643008 Client Smp ID: 246WS-IF
Inj Date : 24-OCT-2000 10:51
Operator : RC Inst ID: s3.i
Smp Info : 71643008,246WS-IF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.754	10.751	(0.778)	726803	117.349	59
$ 3 Phenol-d5	99	12.987	12.990	(0.940)	968584	118.686	59
$ 6 2-Chlorophenol-d4	132	13.302	13.305	(0.963)	806055	122.401	61
* 8 1,4-Dichlorobenzene-d4	152	13.815	13.812	(1.000)	193123	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.147	14.143	(1.024)	323009	70.7061	35
$ 16 Nitrobenzene-d5	82	15.001	15.004	(0.907)	553220	79.5801	40
* 23 Naphthalene-d8	136	16.534	16.537	(1.000)	736301	40.0000	
$ 33 2-Fluorobiphenyl	172	18.794	18.796	(0.930)	1071677	76.9591	38
* 41 Acenaphthene-d10	164	20.215	20.212	(1.000)	415034	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.845	21.847	(0.937)	186226	127.019	64
* 58 Phenanthrene-d10	188	23.303	23.305	(1.000)	691446	40.0000	
$ 65 Terphenyl-d14	244	26.599	26.601	(0.924)	1288819	87.9960	44
* 70 Chrysene-d12	240	28.784	28.792	(1.000)	587065	40.0000	
* 76 Perylene-d12	264	32.272	32.275	(1.000)	537998	40.0000	

@ 10/26/00

RC

Data File: S3A6007.D
Report Date: 26-Oct-2000 10:21

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6007.D
Lab Smp Id: 71643008 Client Smp ID: 246WS-IF
Inj Date : 24-OCT-2000 10:51
Operator : RC Inst ID: s3.i
Smp Info : 71643008,246WS-IF,S1014-BW2,RC,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6042

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U J
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6042

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643015

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6042

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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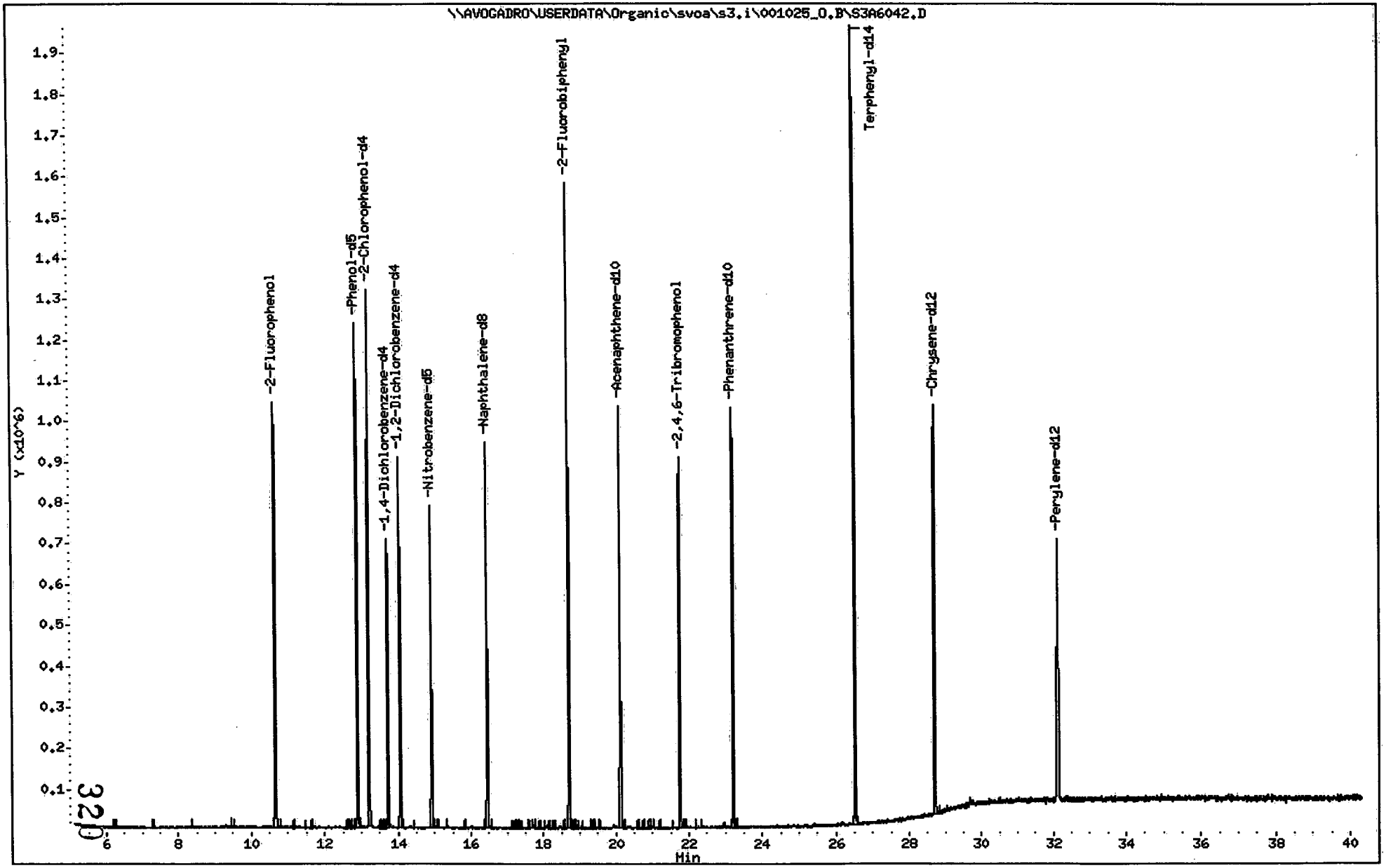
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6042.D
Date : 25-OCT-2000 18:14
Client ID: 247WS-CF
Sample Info: 71643015,247WS-CF,S1014-BW2,QY,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: QY
Column diameter: 0.25



Data File: S3A6042.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6042.D
Lab Smp Id: 71643015 Client Smp ID: 247WS-CF
Inj Date : 25-OCT-2000 18:14
Operator : QY Inst ID: s3.i
Smp Info : 71643015,247WS-CF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.662	10.670	(0.776)	566887	80.6956	40
$ 3 Phenol-d5	99	12.905	12.914	(0.940)	746320	83.2378	42
$ 6 2-Chlorophenol-d4	132	13.221	13.229	(0.963)	616574	83.5628	42
* 8 1,4-Dichlorobenzene-d4	152	13.733	13.742	(1.000)	193411	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.065	14.073	(1.024)	252431	48.3612	24
$ 16 Nitrobenzene-d5	82	14.925	14.933	(0.907)	412932	54.0974	27
* 23 Naphthalene-d8	136	16.458	16.466	(1.000)	714618	40.0000	
$ 33 2-Fluorobiphenyl	172	18.712	18.720	(0.929)	829074	54.1905	27
* 41 Acenaphthene-d10	164	20.133	20.136	(1.000)	390989	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.763	21.771	(0.937)	143522	94.1197	47
* 58 Phenanthrene-d10	188	23.221	23.224	(1.000)	623380	40.0000	
$ 65 Terphenyl-d14	244	26.517	26.520	(0.924)	1015816	67.2642	34
* 70 Chrysene-d12	240	28.697	28.705	(1.000)	514273	40.0000	
* 76 Perylene-d12	264	32.126	32.129	(1.000)	471902	40.0000	

P 10/26/00

K

Data File: S3A6042.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6042.D
Lab Smp Id: 71643015 Client Smp ID: 247WS-CF
Inj Date : 25-OCT-2000 18:14
Operator : QY Inst ID: s3.i
Smp Info : 71643015,247WS-CF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6041

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U J
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6041

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6041

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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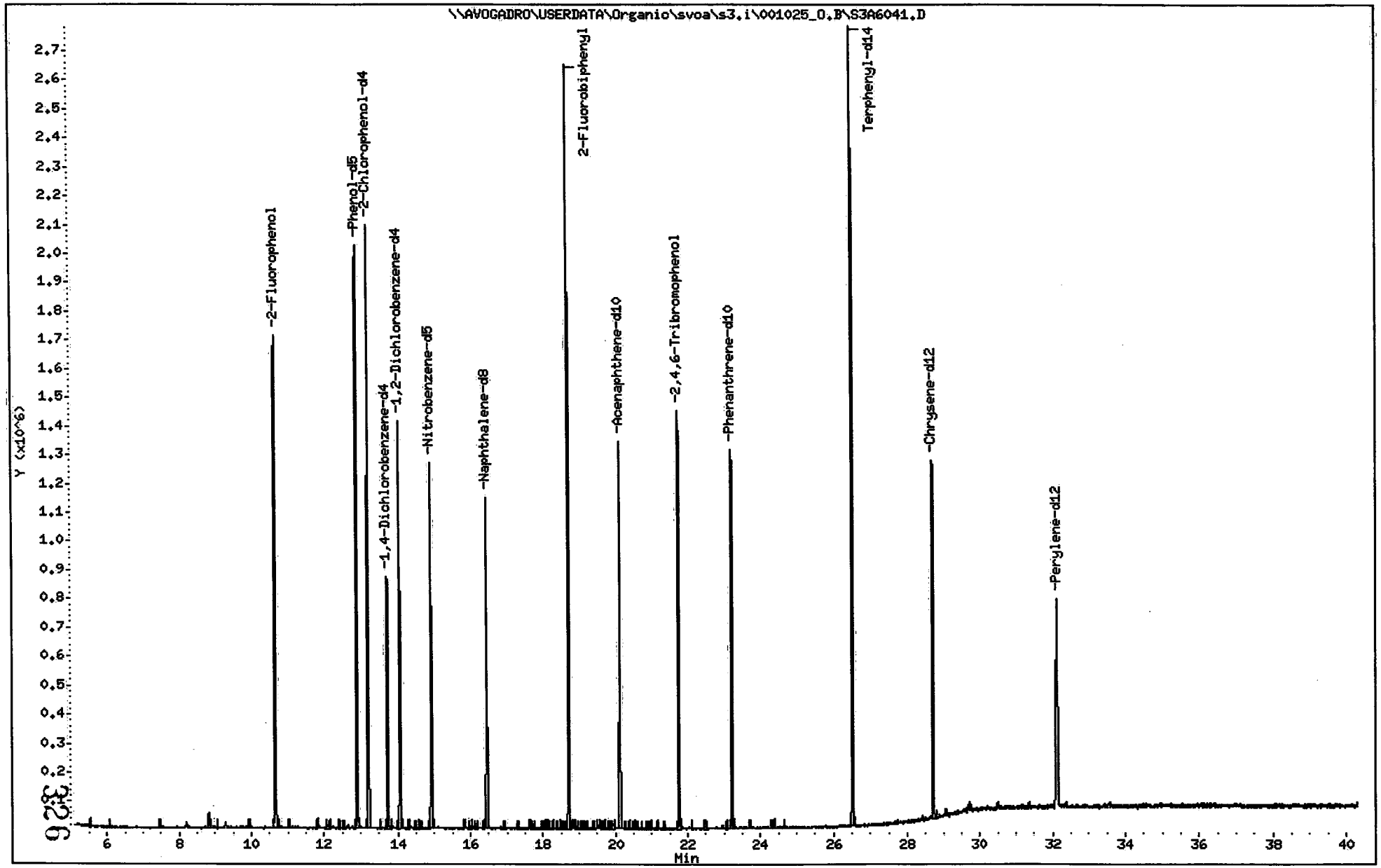
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6041.D
Date : 25-OCT-2000 15:45
Client ID: 247WS-EF
Sample Info: 71643016,247WS-EF,S1014-BW2,QY,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: QY
Column diameter: 0.25



9 of 33

Data File: S3A6041.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6041.D
Lab Smp Id: 71643016 Client Smp ID: 247WS-EF
Inj Date : 25-OCT-2000 15:45
Operator : QY Inst ID: s3.i
Smp Info : 71643016,247WS-EF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.665	10.670	(0.777)	951387	110.639	55
$ 3 Phenol-d5	99	12.914	12.914	(0.940)	1220978	111.250	56
$ 6 2-Chlorophenol-d4	132	13.224	13.229	(0.963)	1018394	112.757	56
* 8 1,4-Dichlorobenzene-d4	152	13.731	13.742	(1.000)	236746	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.063	14.073	(1.024)	386945	60.5622	30
$ 16 Nitrobenzene-d5	82	14.923	14.933	(0.907)	698843	73.7994	37
* 23 Naphthalene-d8	136	16.456	16.466	(1.000)	886541	40.0000	
$ 33 2-Fluorobiphenyl	172	18.716	18.720	(0.930)	1356732	70.1463	35
* 41 Acenaphthene-d10	164	20.131	20.136	(1.000)	494292	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.766	21.771	(0.937)	231771	119.340	60
* 58 Phenanthrene-d10	188	23.219	23.224	(1.000)	793938	40.0000	
$ 65 Terphenyl-d14	244	26.515	26.520	(0.924)	1472577	76.7940	38
* 70 Chrysene-d12	240	28.695	28.705	(1.000)	653000	40.0000	
* 76 Perylene-d12	264	32.124	32.129	(1.000)	575705	40.0000	

@ 10/26/00

K

Data File: S3A6041.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6041.D
Lab Smp Id: 71643016 Client Smp ID: 247WS-EF
Inj Date : 25-OCT-2000 15:45
Operator : QY Inst ID: s3.i
Smp Info : 71643016,247WS-EF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6044

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U J
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U J
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6044

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U J
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U J
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

247WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643014

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6044

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/25/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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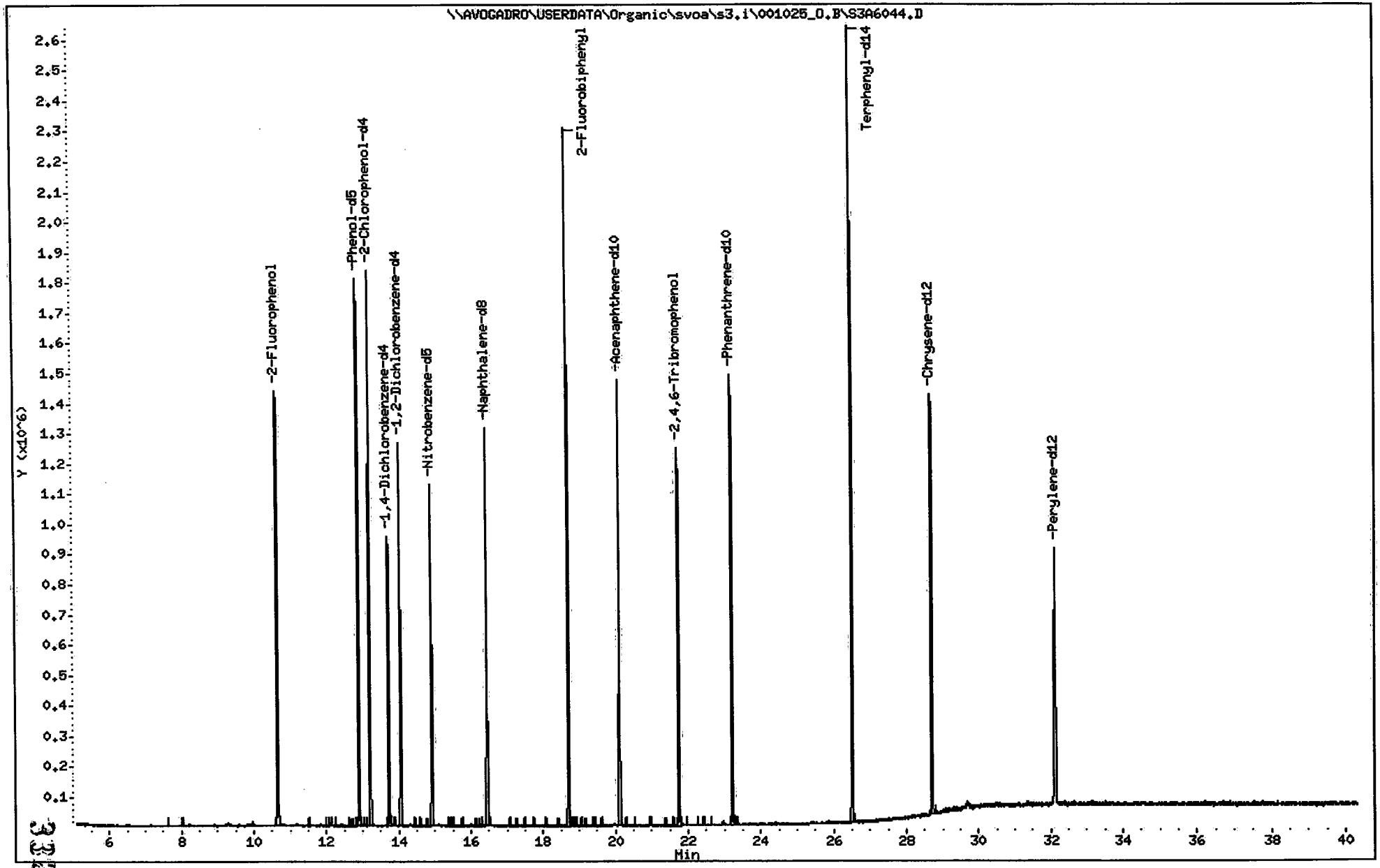
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6044.D
Date : 25-OCT-2000 19:52
Client ID: 247WS-IF
Sample Info: 71643014,247WS-IF,S1014-BW2,QY,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: QY
Column diameter: 0.25



Data File: S3A6044.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6044.D
Lab Smp Id: 71643014 Client Smp ID: 247WS-IF
Inj Date : 25-OCT-2000 19:52
Operator : QY Inst ID: s3.i
Smp Info : 71643014,247WS-IF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.659	10.670	(0.776)	807451	83.8710	42
$ 3 Phenol-d5	99	12.908	12.914	(0.940)	1086441	88.4186	44
$ 6 2-Chlorophenol-d4	132	13.218	13.229	(0.963)	886046	87.6246	44
* 8 1,4-Dichlorobenzene-d4	152	13.731	13.742	(1.000)	265057	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.062	14.073	(1.024)	356623	49.8546	25
$ 16 Nitrobenzene-d5	82	14.922	14.933	(0.907)	593587	55.8494	28
* 23 Naphthalene-d8	136	16.456	16.466	(1.000)	995034	40.0000	
$ 33 2-Fluorobiphenyl	172	18.715	18.720	(0.930)	1196500	55.3964	28
* 41 Acenaphthene-d10	164	20.131	20.136	(1.000)	551983	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.760	21.771	(0.937)	200039	91.1894	46
* 58 Phenanthrene-d10	188	23.219	23.224	(1.000)	896779	40.0000	
$ 65 Terphenyl-d14	244	26.515	26.520	(0.924)	1342023	62.3629	31
* 70 Chrysene-d12	240	28.694	28.705	(1.000)	732818	40.0000	
* 76 Perylene-d12	264	32.124	32.129	(1.000)	653776	40.0000	

10/26/00

Data File: S3A6044.D
Report Date: 26-Oct-2000 10:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6044.D
Lab Smp Id: 71643014 Client Smp ID: 247WS-IF
Inj Date : 25-OCT-2000 19:52
Operator : QY Inst ID: s3.i
Smp Info : 71643014,247WS-IF,S1014-BW2,QY,,71643
Misc Info : ,,,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 26-Oct-2000 10:44 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5892

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5892

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-CF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5892

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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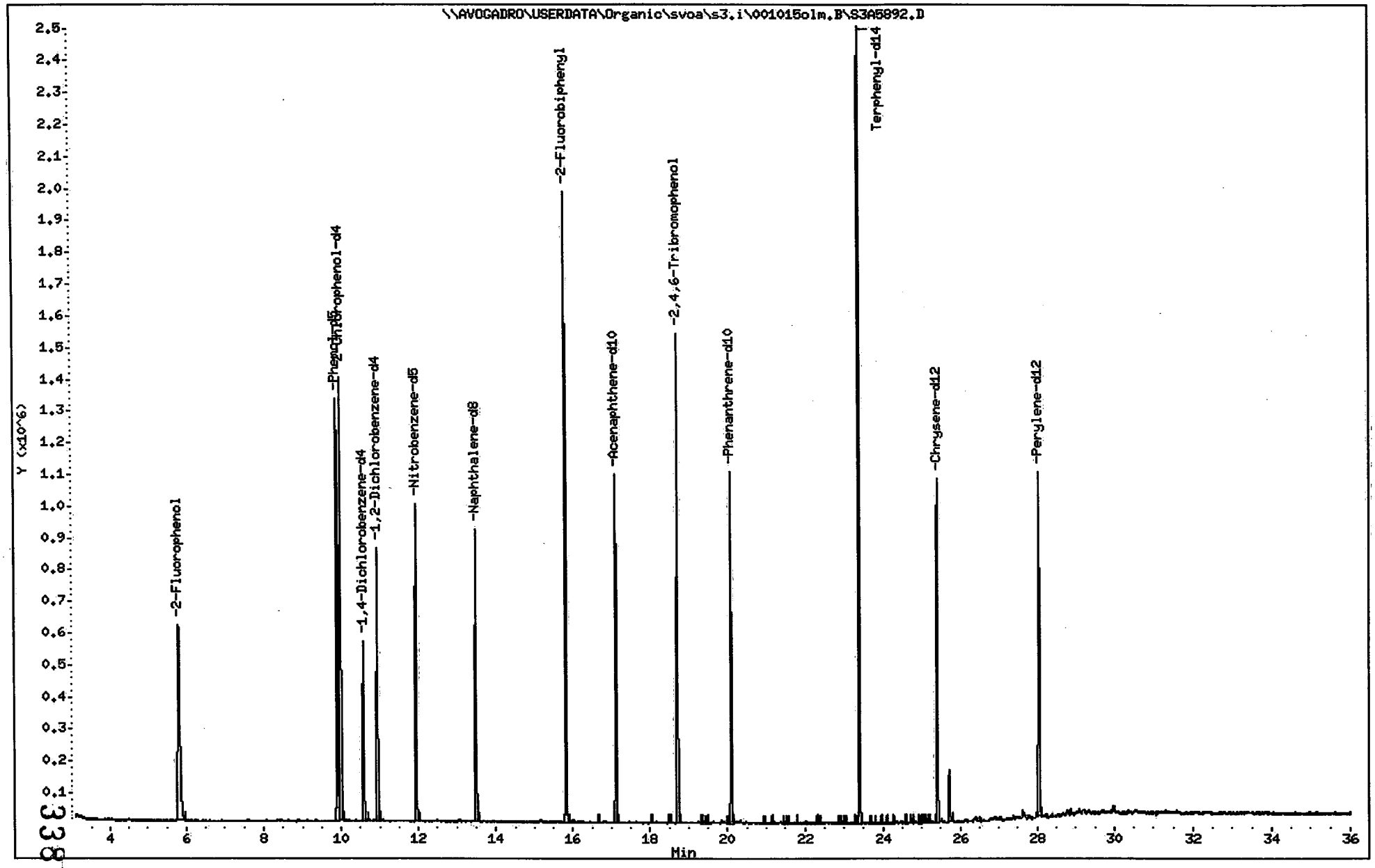
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5892.D
Date : 16-OCT-2000 01:02
Client ID: 250WS-CF
Sample Info: 71643002,250WS-CF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5892.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5892.D
Lab Smp Id: 71643002 Client Smp ID: 250WS-CF
Inj Date : 16-OCT-2000 01:02
Operator : CS Inst ID: s3.i
Smp Info : 71643002,250WS-CF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.806	5.806	(0.549)	667802	122.117	61
$ 3 Phenol-d5	99	9.908	9.913	(0.936)	837183	127.817	64
$ 6 2-Chlorophenol-d4	132	9.994	9.993	(0.944)	738440	124.644	62
* 8 1,4-Dichlorobenzene-d4	152	10.581	10.586	(1.000)	171846	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.939	10.944	(1.034)	236586	59.2364	30
$ 16 Nitrobenzene-d5	82	11.949	11.953	(0.886)	536445	83.8280	42
* 23 Naphthalene-d8	136	13.492	13.497	(1.000)	659031	40.0000	
$ 33 2-Fluorobiphenyl	172	15.826	15.831	(0.924)	955261	80.5388	40
* 41 Acenaphthene-d10	164	17.119	17.123	(1.000)	388135	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.721	18.726	(0.931)	219128	145.550	73
* 58 Phenanthrene-d10	188	20.099	20.104	(1.000)	638686	40.0000	
$ 65 Terphenyl-d14	244	23.405	23.404	(0.921)	1259732	92.6942	46
68 bis(2-Ethylhexyl)phthalate	149	25.718	25.722	(1.012)	82972	5.56731	3(a)
* 70 Chrysene-d12	240	25.403	25.418	(1.000)	593302	40.0000	

10/26/00

Data File: S3A5892.D
Report Date: 26-Oct-2000 10:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 76 Perylene-d12	264	28.052	28.057	(1.000)	560779	40.0000	

QC Flag Legend

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

Data File: S3A5892.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5892.D
Lab Smp Id: 71643002 Client Smp ID: 250WS-CF
Inj Date : 16-OCT-2000 01:02
Operator : CS Inst ID: s3.i
Smp Info : 71643002,250WS-CF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5892.D

Date : 16-OCT-2000 01:02

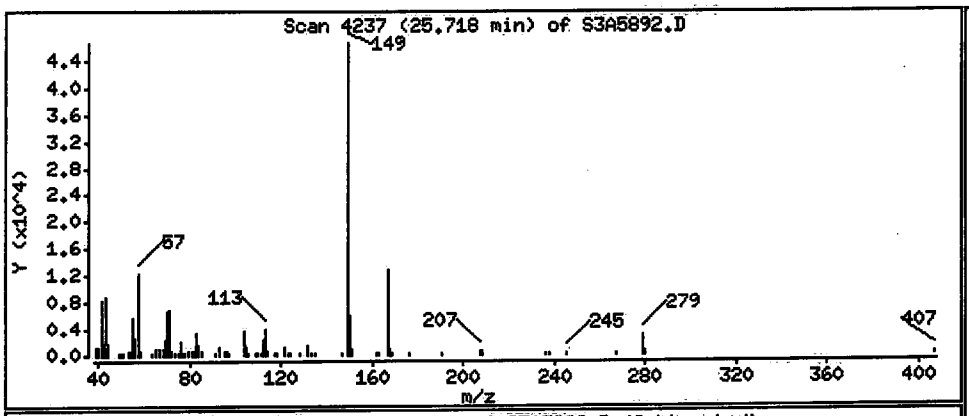
Client ID: 250WS-CF | Instrument: s3.i

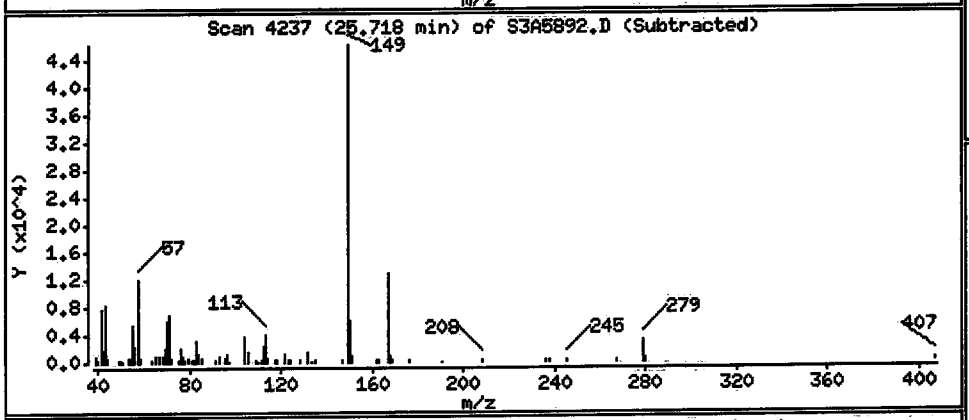
Sample Info: 71643002,250WS-CF,S1013-BW1,CS,,71643

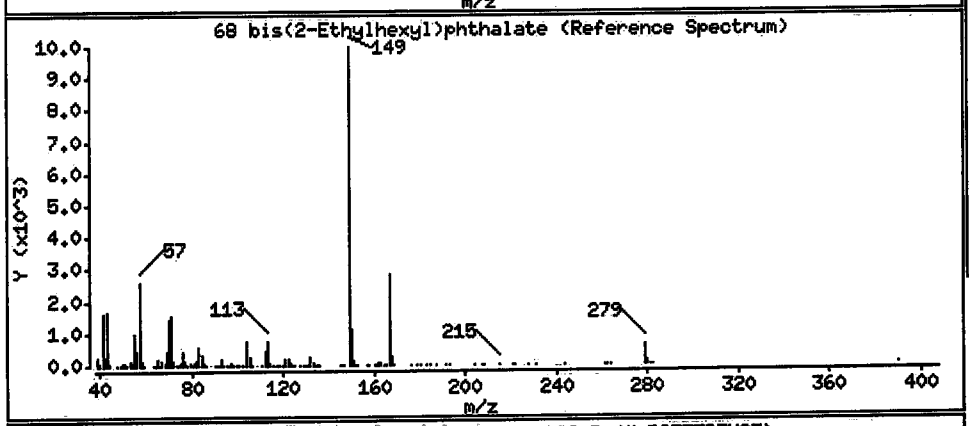
Volume Injected (uL): 2.0 | Operator: CS

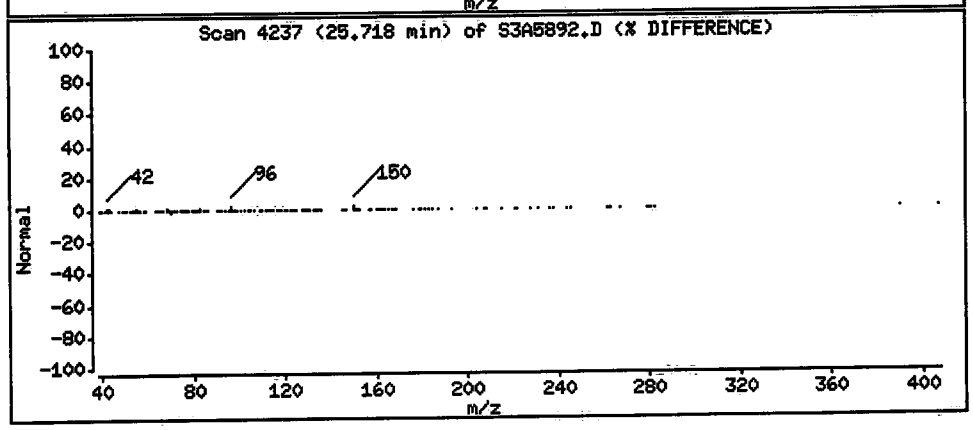
Column phase: DB-5MS | Column diameter: 0.25

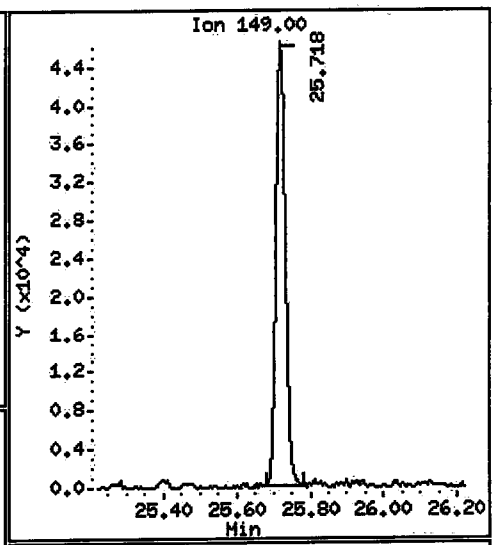
68 bis(2-Ethylhexyl)phthalate | Concentration: 3 ug/L

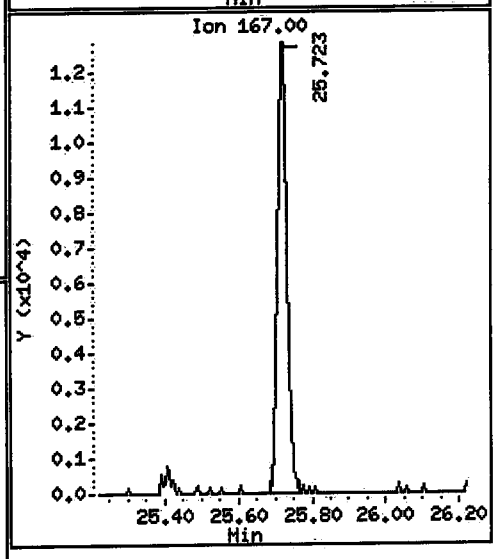












1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5919

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5919

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643003

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5919

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

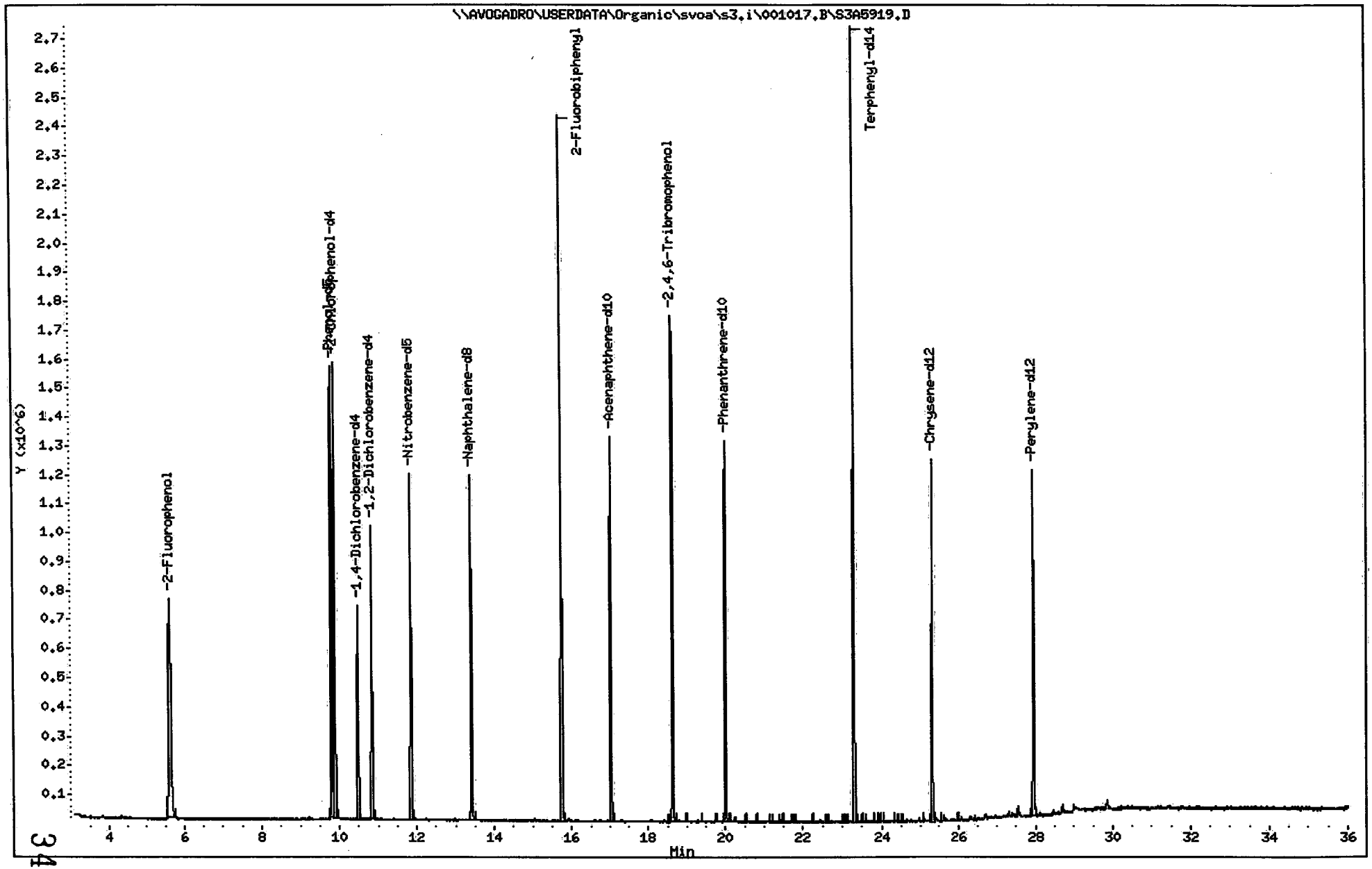
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5919.D
Date : 17-OCT-2000 12:34
Client ID: 250WS-EF
Sample Info: 71643003,250WS-EF,S1013-BW1,CS,,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5919.D
Report Date: 26-Oct-2000 10:19

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5919.D
Lab Smp Id: 71643003 Client Smp ID: 250WS-EF
Inj Date : 17-OCT-2000 12:34
Operator : CS Inst ID: s3.i
Smp Info : 71643003,250WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.610	5.615	(0.535)	795697	111.329	56
$ 3 Phenol-d5	99	9.808	9.807	(0.936)	1022373	120.415	60
$ 6 2-Chlorophenol-d4	132	9.883	9.882	(0.943)	882786	116.745	58
* 8 1,4-Dichlorobenzene-d4	152	10.481	10.480	(1.000)	221239	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.844	10.844	(1.035)	295598	57.5028	29
$ 16 Nitrobenzene-d5	82	11.859	11.864	(0.884)	640031	78.4092	39
* 23 Naphthalene-d8	136	13.408	13.413	(1.000)	829475	40.0000	
$ 33 2-Fluorobiphenyl	172	15.747	15.747	(0.924)	1143654	77.6248	39
* 41 Acenaphthene-d10	164	17.034	17.039	(1.000)	476335	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.637	18.636	(0.932)	246172	140.003	70
* 58 Phenanthrene-d10	188	20.004	20.009	(1.000)	752304	40.0000	
$ 65 Terphenyl-d14	244	23.310	23.310	(0.921)	1440517	97.1639	49
* 70 Chrysene-d12	240	25.308	25.318	(1.000)	665144	40.0000	
* 76 Perylene-d12	264	27.952	27.956	(1.000)	628881	40.0000	

10/26/00

Data File: S3A5919.D
Report Date: 26-Oct-2000 10:19

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5919.D
Lab Smp Id: 71643003 Client Smp ID: 250WS-EF
Inj Date : 17-OCT-2000 12:34
Operator : CS Inst ID: s3.i
Smp Info : 71643003,250WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5891

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5891

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

250WS-IF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643001

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5891

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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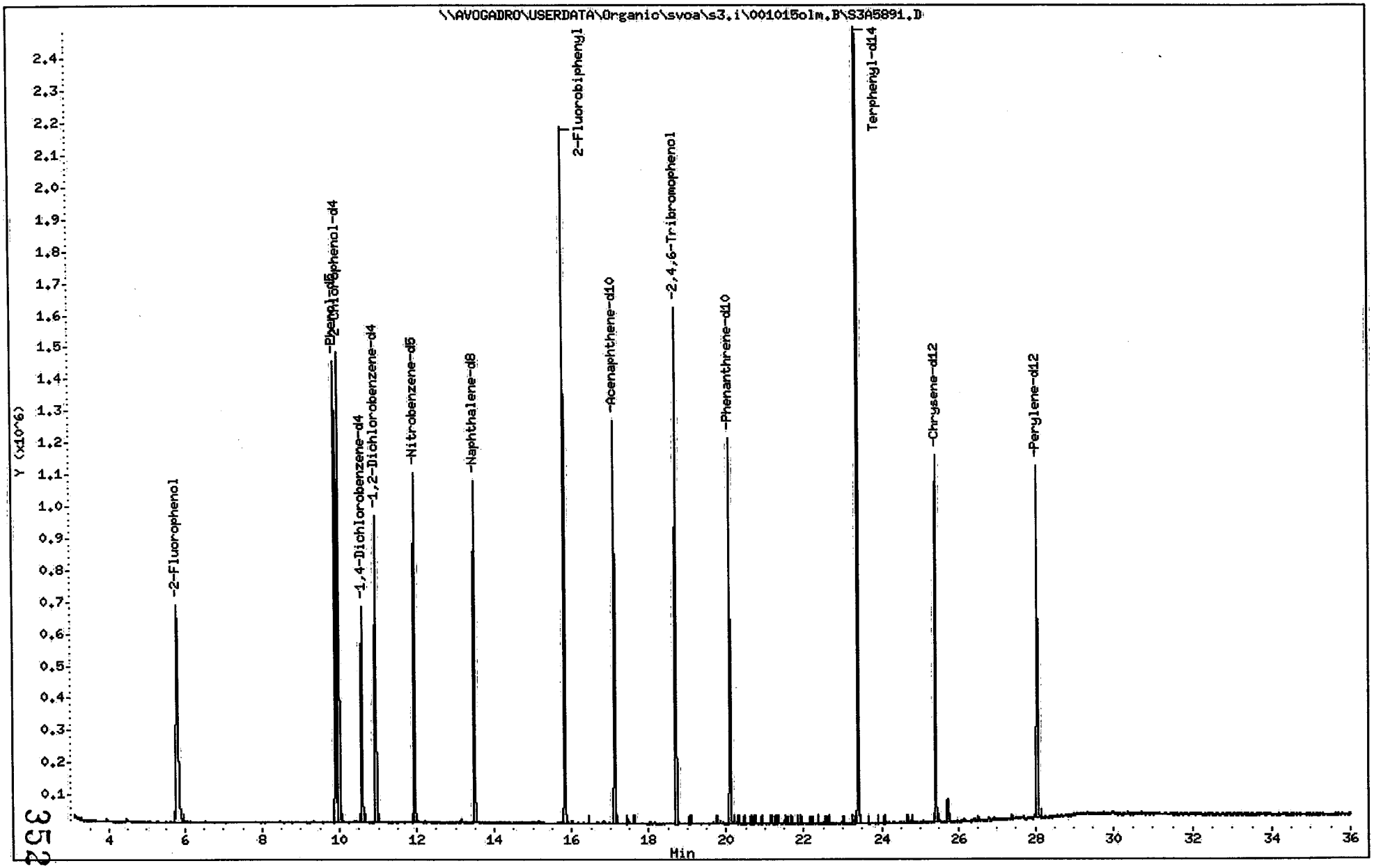
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5891.D
Date : 16-OCT-2000 00:17
Client ID: 250WS-IF
Sample Info: 71643001,250WS-IF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5891.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5891.D
Lab Smp Id: 71643001 Client Smp ID: 250WS-IF
Inj Date : 16-OCT-2000 00:17
Operator : CS Inst ID: s3.i
Smp Info : 71643001,250WS-IF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.803	5.806	(0.548)	695449	109.369	55
$ 3 Phenol-d5	99	9.911	9.913	(0.936)	913123	119.894	60
$ 6 2-Chlorophenol-d4	132	9.996	9.993	(0.944)	791816	114.942	57
* 8 1,4-Dichlorobenzene-d4	152	10.584	10.586	(1.000)	199821	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.942	10.944	(1.034)	267122	57.5185	29
$ 16 Nitrobenzene-d5	82	11.951	11.953	(0.886)	572619	77.1260	39
* 23 Naphthalene-d8	136	13.495	13.497	(1.000)	764600	40.0000	
$ 33 2-Fluorobiphenyl	172	15.829	15.831	(0.925)	1013189	75.7533	38
* 41 Acenaphthene-d10	164	17.121	17.123	(1.000)	437678	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.723	18.726	(0.932)	233137	140.356	70
* 58 Phenanthrene-d10	188	20.096	20.104	(1.000)	704662	40.0000	
$ 65 Terphenyl-d14	244	23.402	23.404	(0.921)	1313274	94.6534	47
68 bis(2-Ethylhexyl)phthalate	149	25.720	25.722	(1.012)	37519	2.46588	1(a)
* 70 Chrysene-d12	240	25.405	25.418	(1.000)	605716	40.0000	

10/25/00

Data File: S3A5891.D
Report Date: 26-Oct-2000 10:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 76 Perylene-d12	264	28.049	28.057	(1.000)	556794	40.0000	

QC Flag Legend

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

Data File: S3A5891.D
Report Date: 26-Oct-2000 10:17

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5891.D
Lab Smp Id: 71643001 Client Smp ID: 250WS-IF
Inj Date : 16-OCT-2000 00:17
Operator : CS Inst ID: s3.i
Smp Info : 71643001,250WS-IF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5891.D

Date : 16-OCT-2000 00:17

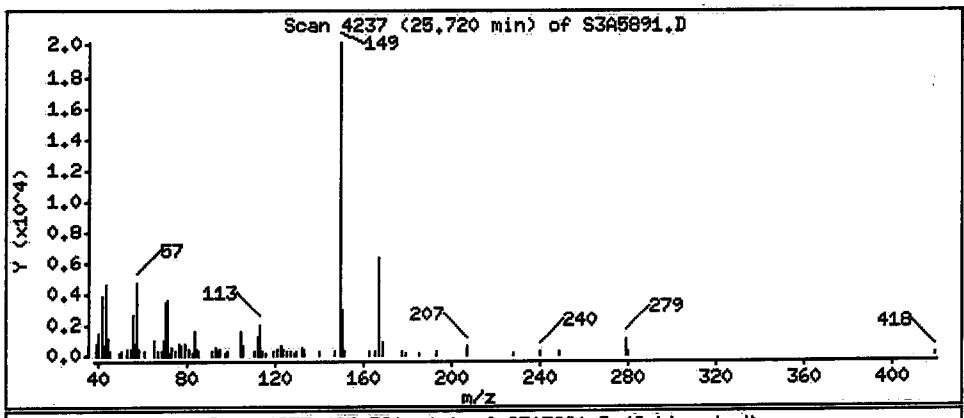
Client ID: 250WS-IF | Instrument: s3.i

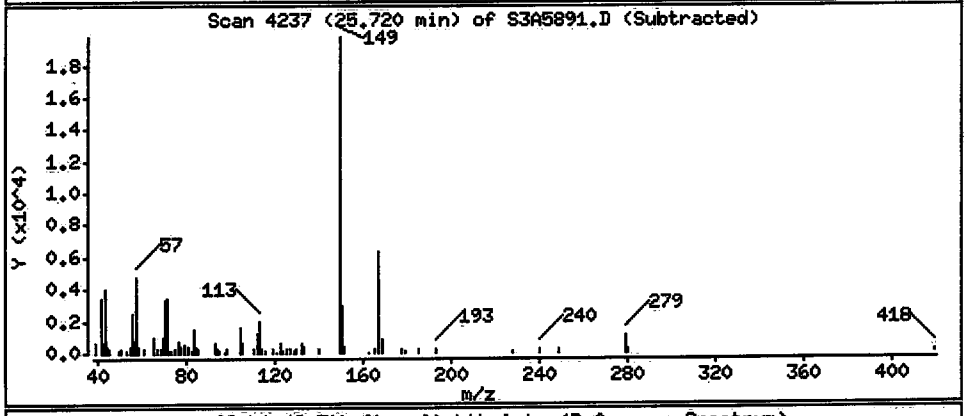
Sample Info: 71643001,250WS-IF,S1013-BW1,CS,,71643

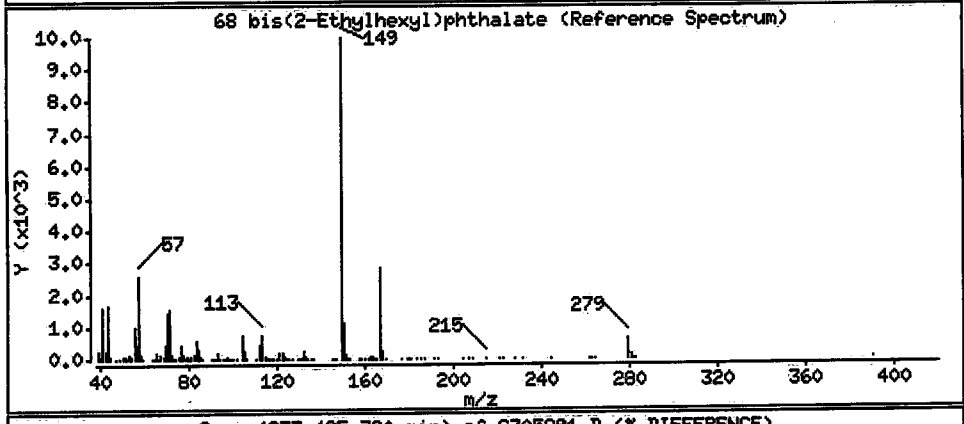
Volume Injected (uL): 2.0 | Operator: CS

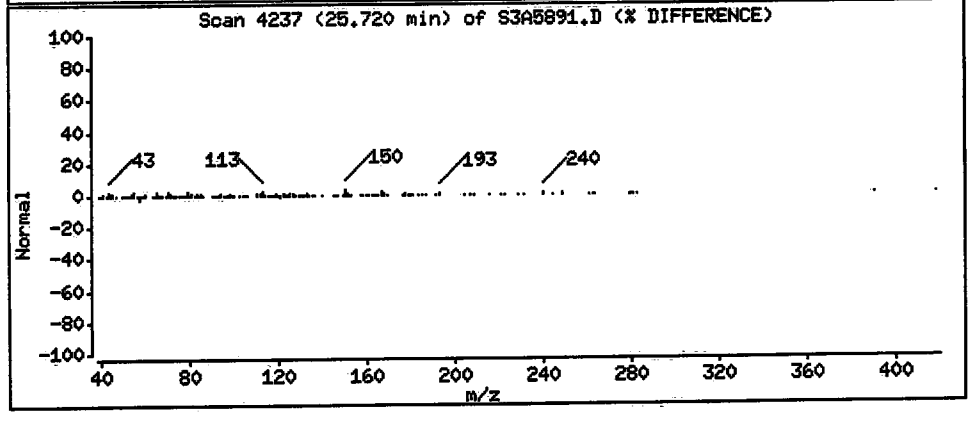
Column phase: DB-5MS | Column diameter: 0.25

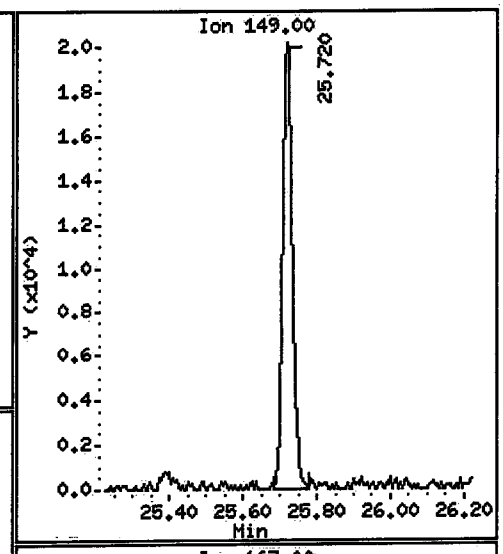
68 bis(2-Ethylhexyl)phthalate | Concentration: 1 ug/L

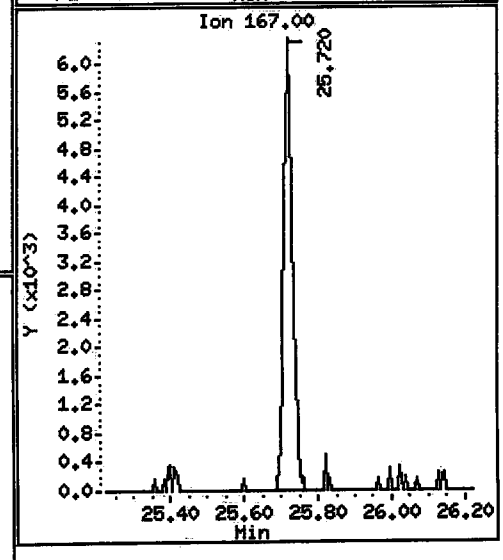












1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

420WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5920

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

420WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5920

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

420WS-EF

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643007

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5920

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N)___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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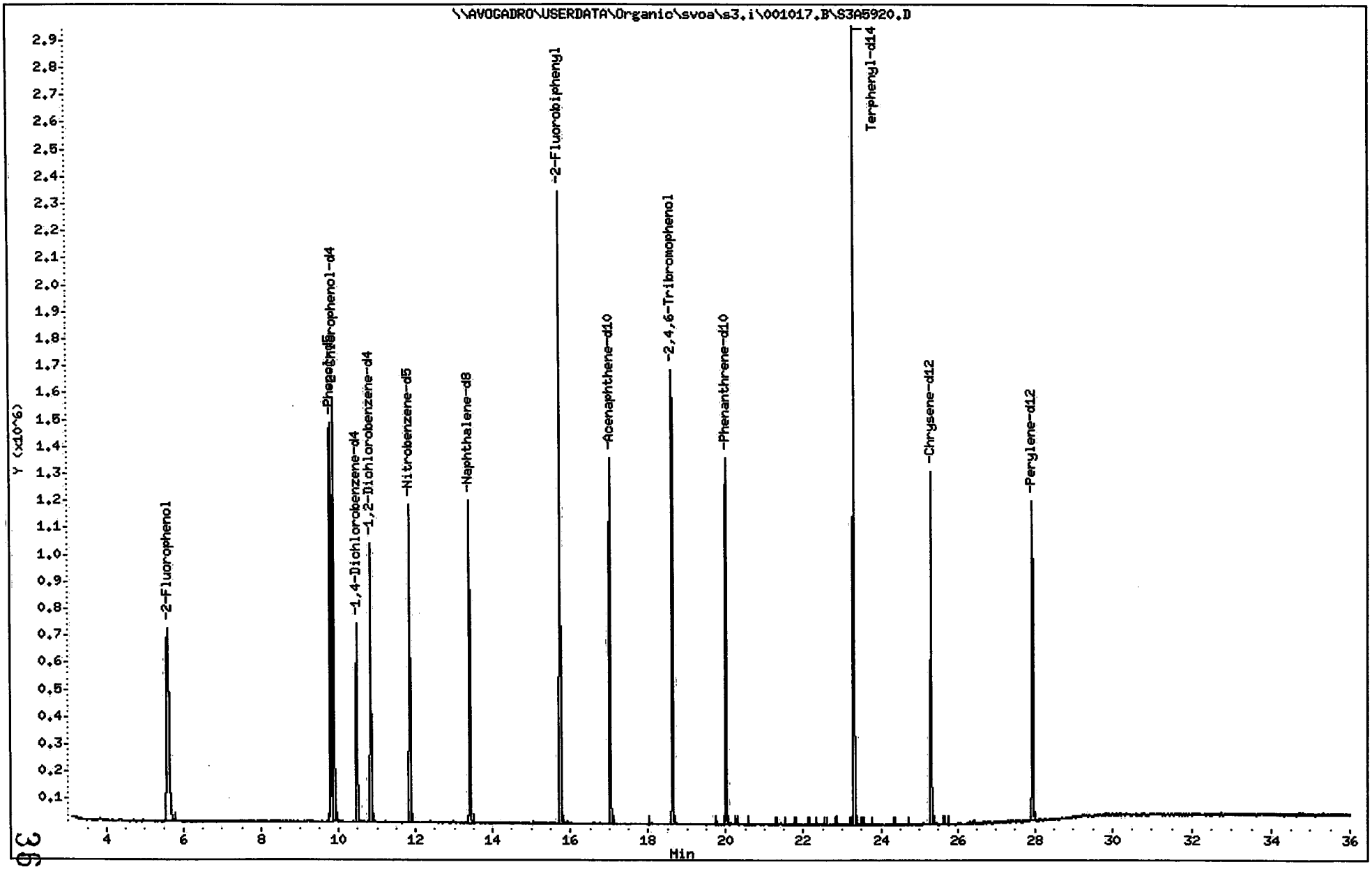
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5920.D
Date : 17-OCT-2000 13:17
Client ID: 420WS-EF
Sample Info: 71643007,420WS-EF,S1013-BW1,CS,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5920.D
Report Date: 26-Oct-2000 10:19

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5920.D
Lab Smp Id: 71643007 Client Smp ID: 420WS-EF
Inj Date : 17-OCT-2000 13:17
Operator : CS Inst ID: s3.i
Smp Info : 71643007,420WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.610	5.615	(0.535)	776450	108.199	54
$ 3 Phenol-d5	99	9.808	9.807	(0.936)	975352	114.414	57
$ 6 2-Chlorophenol-d4	132	9.883	9.882	(0.943)	861909	113.525	57
* 8 1,4-Dichlorobenzene-d4	152	10.481	10.480	(1.000)	222133	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.839	10.844	(1.034)	289600	56.1093	28
$ 16 Nitrobenzene-d5	82	11.859	11.864	(0.884)	623335	76.1448	38
* 23 Naphthalene-d8	136	13.408	13.413	(1.000)	831860	40.0000	
$ 33 2-Fluorobiphenyl	172	15.747	15.747	(0.924)	1106304	74.5227	37
* 41 Acenaphthene-d10	164	17.034	17.039	(1.000)	479959	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.631	18.636	(0.931)	234335	129.981	65
* 58 Phenanthrene-d10	188	20.004	20.009	(1.000)	771348	40.0000	
$ 65 Terphenyl-d14	244	23.315	23.310	(0.921)	1498050	99.0240	50
* 70 Chrysene-d12	240	25.307	25.318	(1.000)	678716	40.0000	
* 76 Perylene-d12	264	27.951	27.956	(1.000)	626463	40.0000	

@ 10/26/00

KC

Data File: S3A5920.D
Report Date: 26-Oct-2000 10:19

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5920.D
Lab Smp Id: 71643007 Client Smp ID: 420WS-EF
Inj Date : 17-OCT-2000 13:17
Operator : CS Inst ID: s3.i
Smp Info : 71643007,420WS-EF,S1013-BW1,CS,,71643
Misc Info : ,,,1,,,,,,,13-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Instrument ID: S3 Calibration Date(s): 09/08/00 09/08/00

Calibration Time(s): 1119 1605

LAB FILE ID: RRF20 = S3A5221 RRF50 = S3A5216
RRF80 = S3A5220 RRF120= S3A5222 RRF160= S3A5218

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Benzaldehyde		0.933	1.126	0.993	0.958	0.981	0.998	7.5
Phenol	*	1.628	1.652	1.655	1.612	1.677	1.645	1.5*
bis(2-Chloroethyl)Ether	*	1.270	1.285	1.259	1.236	1.281	1.266	1.6*
2-Chlorophenol	*	1.365	1.375	1.375	1.337	1.381	1.367	1.3*
2-Methylphenol	*	1.202	1.198	1.219	1.190	1.221	1.206	1.1*
2,2'-oxybis(1-Chloropropane)		1.589	1.607	1.576	1.532	1.593	1.579	1.8
Acetophenone		1.845	1.861	1.858	1.798	1.872	1.847	1.6
4-Methylphenol	*	1.282	1.270	1.311	1.272	1.323	1.292	1.8*
N-Nitroso-di-n-propylamine	*	0.846	0.872	0.876	0.844	0.893	0.866	2.4*
Hexachloroethane	*	0.556	0.544	0.553	0.530	0.554	0.547	1.9*
Nitrobenzene	*	0.391	0.402	0.389	0.378	0.389	0.390	2.1*
Isophorone	*	0.667	0.713	0.684	0.650	0.670	0.677	3.5*
2-Nitrophenol	*	0.197	0.212	0.205	0.197	0.206	0.203	3.1*
2,4-Dimethylphenol	*	0.300	0.267	0.295	0.287	0.293	0.288	4.5*
bis(2-Chloroethoxy)methane	*	0.411	0.435	0.411	0.396	0.410	0.413	3.4*
2,4-Dichlorophenol	*	0.291	0.316	0.301	0.292	0.303	0.301	3.4*
Naphthalene	*	1.089	1.147	1.095	1.036	1.041	1.082	4.2*
4-Chloroaniline		0.104	0.099	0.107	0.100	0.090	0.100	6.5
Hexachlorobutadiene		0.156	0.163	0.156	0.150	0.155	0.156	3.1
Caprolactam		0.119	0.131	0.127	0.111	0.113	0.120	7.2
4-Chloro-3-Methylphenol	*	0.296	0.320	0.309	0.297	0.312	0.307	3.3*
2-Methylnaphthalene	*	0.713	0.754	0.721	0.687	0.707	0.716	3.4*
Hexachlorocyclopentadiene	*	0.307	0.284	0.313	0.305	0.316	0.305	4.1
2,4,6-Trichlorophenol	*	0.329	0.344	0.347	0.334	0.351	0.341	2.6*
2,4,5-Trichlorophenol	*		0.379	0.376	0.370	0.384	0.377	1.6*
1,1'-Biphenyl		1.527	1.534	1.514	1.446	1.467	1.498	2.6
2-Chloronaphthalene	*	1.128	1.157	1.141	1.101	1.131	1.132	1.8*
2-Nitroaniline			0.361	0.354	0.344	0.363	0.356	2.5
Dimethylphthalate		1.320	1.349	1.325	1.268	1.313	1.315	2.2
2,6-Dinitrotoluene	*	0.307	0.316	0.314	0.308	0.323	0.314	2.1*
Acenaphthylene	*	1.753	1.784	1.762	1.674	1.698	1.734	2.7*
3-Nitroaniline			0.323	0.324	0.310	0.327	0.321	2.3
Acenaphthene	*	1.173	1.196	1.176	1.134	1.166	1.169	1.9*
2,4-Dinitrophenol			0.151	0.168	0.169	0.187	0.169	8.6
4-Nitrophenol			0.170	0.176	0.171	0.179	0.174	2.4
Dibenzofuran	*	1.685	1.692	1.661	1.591	1.611	1.648	2.7*

* 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.: 71643

Instrument ID: S3 Calibration Date(s): 09/08/00 09/08/00

Calibration Time(s): 1119 1605

LAB FILE ID: RRF20 = S3A5221 RRF50 = S3A5216
RRF80 = S3A5220 RRF120= S3A5222 RRF160= S3A5218

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene	*	0.434	0.439	0.447	0.430	0.453	0.441	2.1*
Diethylphthalate		1.300	1.328	1.296	1.255	1.299	1.296	2.0
Fluorene	*	1.357	1.390	1.357	1.305	1.342	1.350	2.3*
4-Chlorophenyl-phenylether	*	0.597	0.613	0.599	0.580	0.593	0.596	2.0*
4-Nitroaniline			0.367	0.383	0.372	0.384	0.377	2.2
4,6-Dinitro-2-methylphenol			0.142	0.148	0.148	0.155	0.148	3.7
N-Nitrosodiphenylamine (1)		0.374	0.372	0.379	0.365	0.361	0.370	1.9
4-Bromophenyl-phenylether	*	0.199	0.200	0.198	0.194	0.199	0.198	1.2*
Hexachlorobenzene	*	0.206	0.203	0.199	0.196	0.203	0.201	2.0*
Atrazine		0.133	0.144	0.138	0.134	0.132	0.136	3.8
Pentachlorophenol	*		0.125	0.130	0.132	0.140	0.132	4.5*
Phenanthrene	*	1.202	1.217	1.192	1.134	1.137	1.176	3.3*
Anthracene	*	1.205	1.197	1.191	1.140	1.143	1.175	2.7*
Carbazole		1.138	1.146	1.116	1.074	1.075	1.110	3.1
Di-n-butylphthalate		1.386	1.435	1.391	1.305	1.288	1.361	4.6
Fluoranthene	*	1.216	1.229	1.199	1.146	1.150	1.188	3.2*
Pyrene	*	1.395	1.397	1.368	1.307	1.327	1.359	3.0*
Butylbenzylphthalate		0.677	0.711	0.716	0.696	0.719	0.704	2.4
3,3'-Dichlorobenzidine		0.339	0.341	0.365	0.350	0.350	0.349	3.0
Benzo(a)anthracene	*	1.294	1.316	1.287	1.232	1.256	1.277	2.6*
Chrysene	*	1.201	1.228	1.204	1.145	1.156	1.187	3.0*
bis(2-Ethylhexyl)phthalate		0.965	1.011	1.007	0.981	1.008	0.994	2.1
Di-n-octylphthalate		1.668	1.814	1.773	1.703	1.724	1.736	3.3
Benzo(b)fluoranthene	*	1.357	1.423	1.390	1.325	1.368	1.373	2.7*
Benzo(k)fluoranthene	*	1.395	1.439	1.393	1.364	1.405	1.399	1.9*
Benzo(a)pyrene	*	1.225	1.260	1.245	1.199	1.238	1.233	1.9*
Indeno(1,2,3-cd)pyrene	*	1.227	1.370	1.313	1.283	1.342	1.307	4.2*
Dibenzo(a,h)anthracene	*	1.260	1.321	1.293	1.275	1.322	1.294	2.1*
Benzo(g,h,i)perylene	*	1.256	1.327	1.285	1.262	1.297	1.285	2.2*
Nitrobenzene-d5	*	0.371	0.385	0.374	0.359	0.374	0.373	2.5*
2-Fluorobiphenyl	*	1.321	1.343	1.325	1.263	1.291	1.309	2.4*
Terphenyl-d14	*	0.965	0.967	0.958	0.922	0.948	0.952	1.9*
Phenol-d5	*	1.560	1.594	1.606	1.552	1.630	1.588	2.0*
2-Fluorophenol	*	1.253	1.258	1.282	1.231	1.283	1.261	1.7*
2,4,6-Tribromophenol		0.086	0.089	0.090	0.090	0.093	0.090	2.5
2-Chlorophenol-d4	*	1.394	1.396	1.400	1.363	1.417	1.394	1.4*
1,2-Dichlorobenzene-d4	*	0.920	0.922	0.912	0.889	0.918	0.912	1.5*

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Instrument ID: S3 Calibration Date(s): 10/20/00 10/21/00

Calibration Time(s): 2000 0238

LAB FILE ID: RRF20 = S3A5966 RRF50 = S3A5965
RRF80 = S3A5964 RRF120= S3A5963 RRF160= S3A5962

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Benzaldehyde		1.023	1.051	1.161	1.104	1.131	1.094	5.2
Phenol	*	1.632	1.728	1.788	1.713	1.746	1.721	3.3*
bis(2-Chloroethyl)Ether	*	1.325	1.365	1.392	1.327	1.367	1.355	2.1*
2-Chlorophenol	*	1.315	1.358	1.404	1.354	1.389	1.364	2.5*
2-Methylphenol	*	1.199	1.241	1.280	1.229	1.267	1.243	2.6*
2,2'-oxybis(1-Chloropropane)		2.061	2.077	2.139	2.066	2.110	2.091	1.6
Acetophenone		1.831	1.837	1.897	1.854	1.861	1.856	1.4
4-Methylphenol	*	1.243	1.307	1.344	1.298	1.321	1.303	2.9*
N-Nitroso-di-n-propylamine	*	0.820	0.837	0.862	0.845	0.859	0.845	2.0*
Hexachloroethane	*	0.508	0.522	0.523	0.520	0.530	0.521	1.5*
Nitrobenzene	*	0.368	0.392	0.400	0.381	0.393	0.387	3.2*
Isophorone	*	0.650	0.687	0.704	0.680	0.690	0.682	2.9*
2-Nitrophenol	*	0.146	0.168	0.177	0.173	0.176	0.168	7.5*
2,4-Dimethylphenol	*	0.298	0.309	0.308	0.288	0.303	0.301	2.9*
bis(2-Chloroethoxy)methane	*	0.422	0.436	0.447	0.425	0.432	0.432	2.4*
2,4-Dichlorophenol	*	0.249	0.267	0.280	0.272	0.280	0.270	4.7*
Naphthalene	*	1.072	1.095	1.123	1.061	1.077	1.086	2.2*
4-Chloroaniline		0.119	0.131	0.139	0.124	0.138	0.130	6.8
Hexachlorobutadiene		0.137	0.132	0.138	0.130	0.135	0.134	2.4
Caprolactam		0.106	0.123	0.129	0.126	0.131	0.123	8.1
4-Chloro-3-Methylphenol	*	0.268	0.290	0.303	0.294	0.301	0.291	4.9*
2-Methylnaphthalene	*	0.689	0.710	0.718	0.687	0.691	0.699	2.0*
Hexachlorocyclopentadiene		0.228	0.246	0.254	0.262	0.266	0.251	6.0
2,4,6-Trichlorophenol	*	0.291	0.311	0.325	0.319	0.329	0.315	4.7*
2,4,5-Trichlorophenol	*		0.338	0.345	0.346	0.360	0.347	2.6*
1,1'-Biphenyl		1.530	1.547	1.545	1.519	1.545	1.537	0.8
2-Chloronaphthalene	*	1.094	1.115	1.112	1.094	1.116	1.106	1.0*
2-Nitroaniline			0.340	0.346	0.356	0.366	0.352	3.2
Dimethylphthalate		1.204	1.244	1.238	1.229	1.254	1.234	1.5
2,6-Dinitrotoluene	*	0.220	0.256	0.264	0.273	0.279	0.258	9.0*
Acenaphthylene	*	1.741	1.779	1.773	1.747	1.772	1.762	1.0*
3-Nitroaniline			0.251	0.268	0.281	0.285	0.271	5.7
Acenaphthene	*	1.168	1.173	1.176	1.159	1.183	1.172	0.8*
2,4-Dinitrophenol			0.068	0.085	0.098	0.101	0.088	17.4
4-Nitrophenol			0.127	0.137	0.146	0.154	0.141	8.1
Dibenzofuran	*	1.624	1.652	1.644	1.602	1.625	1.629	1.2*

* 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.: 71643

Instrument ID: S3 Calibration Date(s): 10/20/00 10/21/00

Calibration Time(s): 2000 0238

LAB FILE ID: RRF20 = S3A5966 RRF50 = S3A5965
RRF80 = S3A5964 RRF120= S3A5963 RRF160= S3A5962

COMPOUND		RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
2,4-Dinitrotoluene	*	0.283	0.340	0.357	0.370	0.391	0.348	11.7*
Diethylphthalate		1.179	1.244	1.227	1.226	1.260	1.227	2.5
Fluorene	*	1.328	1.330	1.320	1.283	1.313	1.315	1.4*
4-Chlorophenyl-phenylether	*	0.557	0.578	0.578	0.564	0.576	0.571	1.7*
4-Nitroaniline			0.314	0.324	0.333	0.346	0.329	4.1
4,6-Dinitro-2-methylphenol			0.078	0.094	0.103	0.106	0.095	13.2
N-Nitrosodiphenylamine (1)		0.389	0.405	0.407	0.364	0.395	0.392	4.4
4-Bromophenyl-phenylether	*	0.174	0.180	0.182	0.181	0.179	0.179	1.6*
Hexachlorobenzene	*	0.171	0.178	0.176	0.179	0.177	0.176	1.8*
Atrazine		0.130	0.138	0.140	0.140	0.141	0.138	3.5
Pentachlorophenol	*		0.102	0.109	0.114	0.119	0.111	6.7*
Phenanthrene	*	1.146	1.160	1.174	1.150	1.149	1.156	1.0*
Anthracene	*	1.124	1.172	1.181	1.139	1.156	1.154	2.0*
Carbazole		1.041	1.072	1.076	1.053	1.047	1.058	1.5
Di-n-butylphthalate		1.210	1.300	1.319	1.307	1.310	1.289	3.5
Fluoranthene	*	1.135	1.153	1.165	1.141	1.153	1.149	1.0*
Pyrene	*	1.421	1.476	1.470	1.432	1.431	1.446	1.7*
Butylbenzylphthalate		0.617	0.688	0.707	0.706	0.715	0.687	5.8
3,3'-Dichlorobenzidine		0.290	0.308	0.323	0.317	0.331	0.314	5.0
Benzo(a)anthracene	*	1.228	1.278	1.272	1.241	1.234	1.251	1.8*
Chrysene	*	1.142	1.205	1.191	1.176	1.169	1.177	2.0*
bis(2-Ethylhexyl)phthalate		0.878	0.970	0.994	1.000	0.999	0.968	5.4
Di-n-octylphthalate		1.502	1.715	1.812	1.877	1.883	1.758	9.0
Benzo(b)fluoranthene	*	1.303	1.350	1.370	1.370	1.399	1.358	2.6*
Benzo(k)fluoranthene	*	1.318	1.362	1.407	1.383	1.374	1.369	2.4*
Benzo(a)pyrene	*	1.135	1.214	1.243	1.229	1.257	1.216	3.9*
Indeno(1,2,3-cd)pyrene	*	1.126	1.196	1.272	1.258	1.308	1.232	5.8*
Dibenzo(a,h)anthracene	*	1.179	1.143	1.267	1.260	1.290	1.228	5.1*
Benzo(g,h,i)perylene	*	1.180	1.239	1.285	1.266	1.283	1.251	3.5*
Nitrobenzene-d5	*	0.350	0.366	0.380	0.369	0.376	0.368	3.1*
2-Fluorobiphenyl	*	1.346	1.353	1.367	1.343	1.359	1.354	0.7*
Terphenyl-d14	*	0.959	0.982	0.989	0.972	0.961	0.973	1.4*
Phenol-d5	*	1.533	1.607	1.670	1.622	1.663	1.619	3.4*
2-Fluorophenol	*	1.176	1.245	1.309	1.257	1.295	1.256	4.1*
2,4,6-Tribromophenol		0.064	0.075	0.079	0.081	0.082	0.076	9.8
2-Chlorophenol-d4	*	1.256	1.306	1.372	1.315	1.352	1.320	3.4*
1,2-Dichlorobenzene-d4	*	0.904	0.934	0.944	0.914	0.931	0.925	1.8*

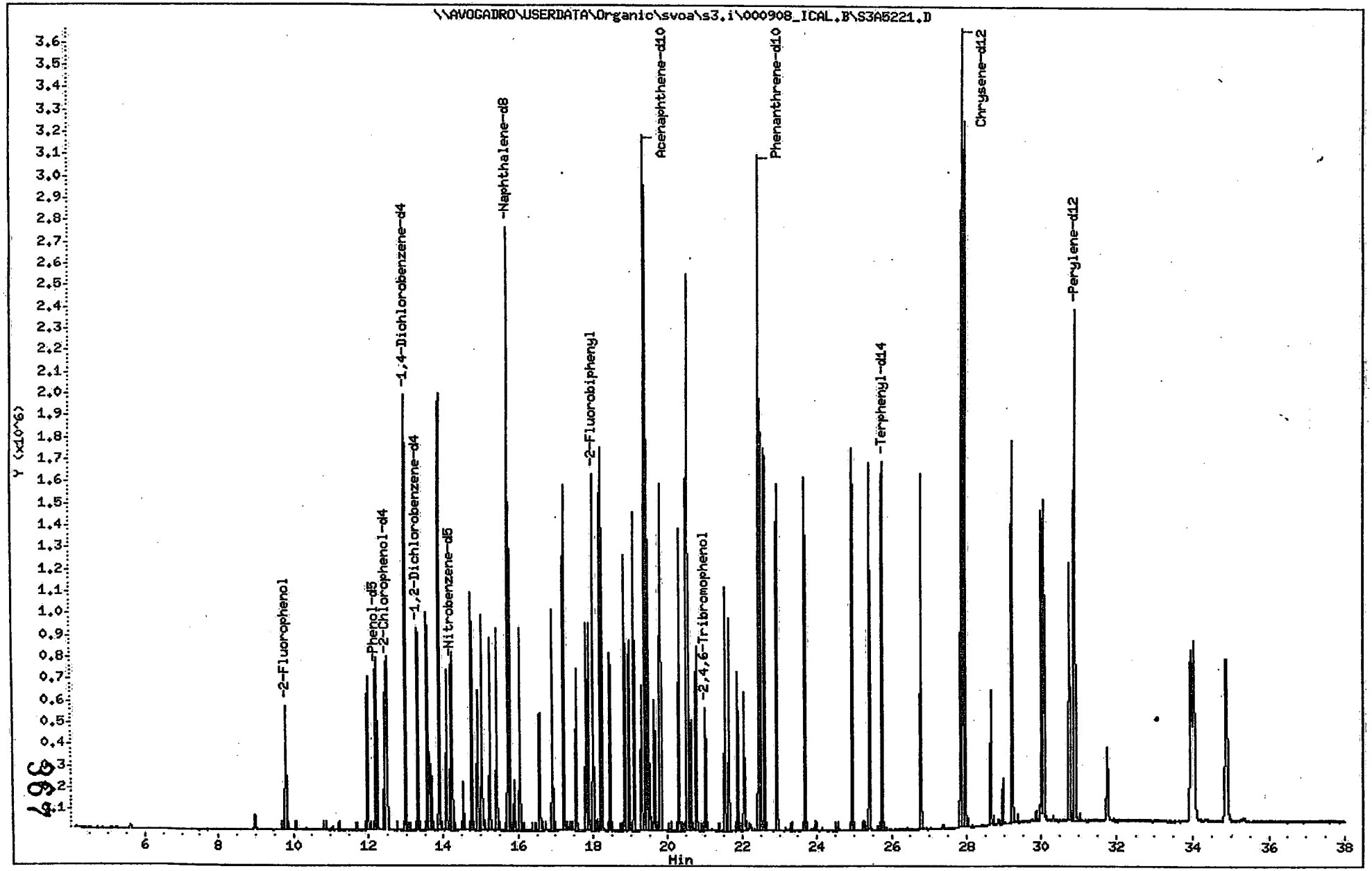
* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5221.D
Date : 08-SEP-2000 15:18
Client ID: SSTD0203L
Sample Info: SS0908E,SSTD0203L

Column phase: DB-5MS

Instrument: s3.i

Operator: QY
Column diameter: 0.25



367

Data File: S3A5221.D
Report Date: 08-Sep-2000 16:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5221.D
Lab Smp Id: SS0908E Client Smp ID: SSTD0203L
Inj Date : 08-SEP-2000 15:18
Operator : QY Inst ID: s3.i
Smp Info : SS0908E,SSTD0203L
Misc Info : 1,1,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\s3_olm4_1.m
Meth Date : 08-Sep-2000 16:55 mtl Quant Type: ISTD
Cal Date : 08-SEP-2000 11:19 Cal File: S3A5216.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	9.797	9.797	(0.754)	343003	20.0000	20
	2 Benzaldehyde	77	11.992	11.992	(0.923)	255442	20.0000	19
$	3 Phenol-d5	99	12.195	12.201	(0.939)	427133	20.0000	20
	4 Phenol	94	12.227	12.227	(0.941)	445802	20.0000	20
	5 bis(2-Chloroethyl)Ether	93	12.435	12.436	(0.957)	347839	20.0000	20
$	6 2-Chlorophenol-d4	132	12.467	12.468	(0.960)	381588	20.0000	20
	7 2-Chlorophenol	128	12.499	12.505	(0.962)	373655	20.0000	20
*	8 1,4-Dichlorobenzene-d4	152	12.991	12.986	(1.000)	547660	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	13.316	13.322	(1.025)	251924	20.0000	20
	10 2-Methylphenol	108	13.567	13.568	(1.044)	329058	20.0000	20
	11 2,2'-oxybis(1-Chloropropane)	45	13.637	13.638	(1.050)	435249	20.0000	20(M)
	12 4-Methylphenol	108	13.899	13.905	(1.070)	351131	20.0000	20
	13 Acetophenone	105	13.882	13.883	(1.069)	505229	20.0000	20
	14 N-Nitroso-di-n-propylamine	70	13.899	13.905	(1.070)	231753	20.0000	19
	15 Hexachloroethane	117	14.091	14.091	(1.085)	152169	20.0000	20
$	16 Nitrobenzene-d5	82	14.198	14.198	(0.903)	385593	20.0000	20
	17 Nitrobenzene	77	14.240	14.241	(0.906)	406111	20.0000	20
	18 Isophorone	82	14.764	14.764	(0.939)	692957	20.0000	20
	19 2-Nitrophenol	139	14.924	14.925	(0.949)	204488	20.0000	19
	20 2,4-Dimethylphenol	107	15.036	15.037	(0.956)	312020	20.0000	21
	21 bis(2-Chloroethoxy)methane	93	15.244	15.245	(0.969)	426711	20.0000	20
	22 2,4-Dichlorophenol	162	15.426	15.432	(0.981)	302172	20.0000	19
*	23 Naphthalene-d8	136	15.725	15.726	(1.000)	2077681	40.0000	
	24 Naphthalene	128	15.773	15.774	(1.003)	1131302	20.0000	20
	25 4-Chloroaniline	127	15.891	15.897	(1.011)	107824	20.0000	21
	26 Hexachlorobutadiene	225	16.046	16.046	(1.020)	162477	20.0000	20

es 09/12/00

Data File: S3A5221.D
Report Date: 08-Sep-2000 16:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	16.574	16.591	(1.054)	123762	20.0000	19
	28 4-Chloro-3-Methylphenol	107	16.911	16.917	(1.075)	307803	20.0000	19
	29 2-Methylnaphthalene	142	17.226	17.227	(1.095)	740273	20.0000	20
	30 Hexachlorocyclopentadiene	237	17.552	17.553	(0.905)	187547	20.0000	20
	31 2,4,6-Trichlorophenol	196	17.808	17.814	(0.919)	201285	20.0000	19
	32 2,4,5-Trichlorophenol	196	17.878	17.884	(0.922)	220470	20.0000	19
$	33 2-Fluorobiphenyl	172	17.995	17.996	(0.928)	806868	20.0000	20
	34 1,1'-Biphenyl	154	18.198	18.204	(0.939)	932765	20.0000	20
	35 2-Chloronaphthalene	162	18.235	18.236	(0.941)	689376	20.0000	20
	36 2-Nitroaniline	65	18.444	18.450	(0.952)	207751	20.0000	19
	37 Dimethylphthalate	163	18.839	18.845	(0.972)	806592	20.0000	20
	38 2,6-Dinitrotoluene	165	18.957	18.963	(0.978)	187563	20.0000	19
	39 Acenaphthylene	152	19.090	19.091	(0.985)	1071248	20.0000	20
	40 3-Nitroaniline	138	19.293	19.294	(0.995)	180258	20.0000	18
*	41 Acenaphthene-d10	164	19.384	19.384	(1.000)	1221904	40.0000	
	42 Acenaphthene	153	19.448	19.454	(1.003)	716448	20.0000	20
	43 2,4-Dinitrophenol	184	19.512	19.513	(1.007)	71892	20.0000	14
	44 4-Nitrophenol	109	19.629	19.636	(1.013)	94606	20.0000	18
	45 2,4-Dinitrotoluene	165	19.784	19.785	(1.021)	265361	20.0000	20
	46 Dibenzofuran	168	19.806	19.812	(1.022)	1029441	20.0000	20
	47 Diethylphthalate	149	20.302	20.303	(1.047)	794522	20.0000	20
	48 4-Chlorophenyl-phenylether	204	20.527	20.527	(1.059)	364644	20.0000	20
	49 Fluorene	166	20.516	20.517	(1.058)	829245	20.0000	20
	50 4-Nitroaniline	138	20.543	20.549	(1.060)	219347	20.0000	19
	51 4,6-Dinitro-2-methylphenol	198	20.618	20.618	(0.919)	125081	20.0000	17
	52 N-Nitrosodiphenylamine (1)	169	20.767	20.768	(0.925)	365704	20.0000	20
$	53 2,4,6-Tribromophenol	330	21.002	21.008	(0.936)	84256	20.0000	19
	54 4-Bromophenyl-phenylether	248	21.531	21.537	(0.959)	194549	20.0000	20
	55 Hexachlorobenzene	284	21.643	21.644	(0.964)	201654	20.0000	20
	56 Atrazine	200	21.873	21.879	(0.975)	129677	20.0000	19
	57 Pentachlorophenol	266	22.044	22.050	(0.982)	108006	20.0000	17
*	58 Phenanthrene-d10	188	22.444	22.445	(1.000)	1953764	40.0000	
	59 Phenanthrene	178	22.492	22.498	(1.002)	1174545	20.0000	20
	60 Anthracene	178	22.599	22.600	(1.007)	1177332	20.0000	20
	61 Carbazole	167	22.930	22.936	(1.022)	1112145	20.0000	20
	62 Di-n-butylphthalate	149	23.683	23.684	(1.055)	1353733	20.0000	20
	63 Fluoranthene	202	24.944	24.945	(1.111)	1188353	20.0000	20
	64 Pyrene	202	25.409	25.409	(0.911)	1234028	20.0000	20
$	65 Terphenyl-d14	244	25.745	25.746	(0.923)	853854	20.0000	20
	66 Butylbenzylphthalate	149	26.765	26.766	(0.960)	599474	20.0000	19
	67 3,3'-Dichlorobenzidine	252	27.817	27.823	(0.998)	299661	20.0000	19
	68 bis(2-Ethylhexyl)phthalate	149	27.951	27.952	(1.002)	853506	20.0000	19
	69 Benzo(a)anthracene	228	27.871	27.866	(0.999)	1144948	20.0000	20
*	70 Chrysene-d12	240	27.887	27.893	(1.000)	1769673	40.0000	
	71 Chrysene	228	27.940	27.941	(1.002)	1062662	20.0000	20
	72 Di-n-octylphthalate	149	29.217	29.217	(0.946)	1374956	20.0000	19
	73 Benzo(b)fluoranthene	252	30.002	30.008	(0.971)	1118838	20.0000	20

Data File: S3A5221.D
Report Date: 08-Sep-2000 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	30.061	30.072	(0.973)	1149847	20.0000	20
75 Benzo(a)pyrene	252	30.744	30.750	(0.996)	1009703	20.0000	20
* 76 Perylene-d12	264	30.883	30.884	(1.000)	1648421	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	33.949	33.966	(1.099)	1011015	20.0000	19
78 Dibenzo(a,h)anthracene	278	34.024	34.035	(1.102)	1038368	20.0000	19
79 Benzo(g,h,i)perylene	276	34.884	34.906	(1.130)	1034960	20.0000	19

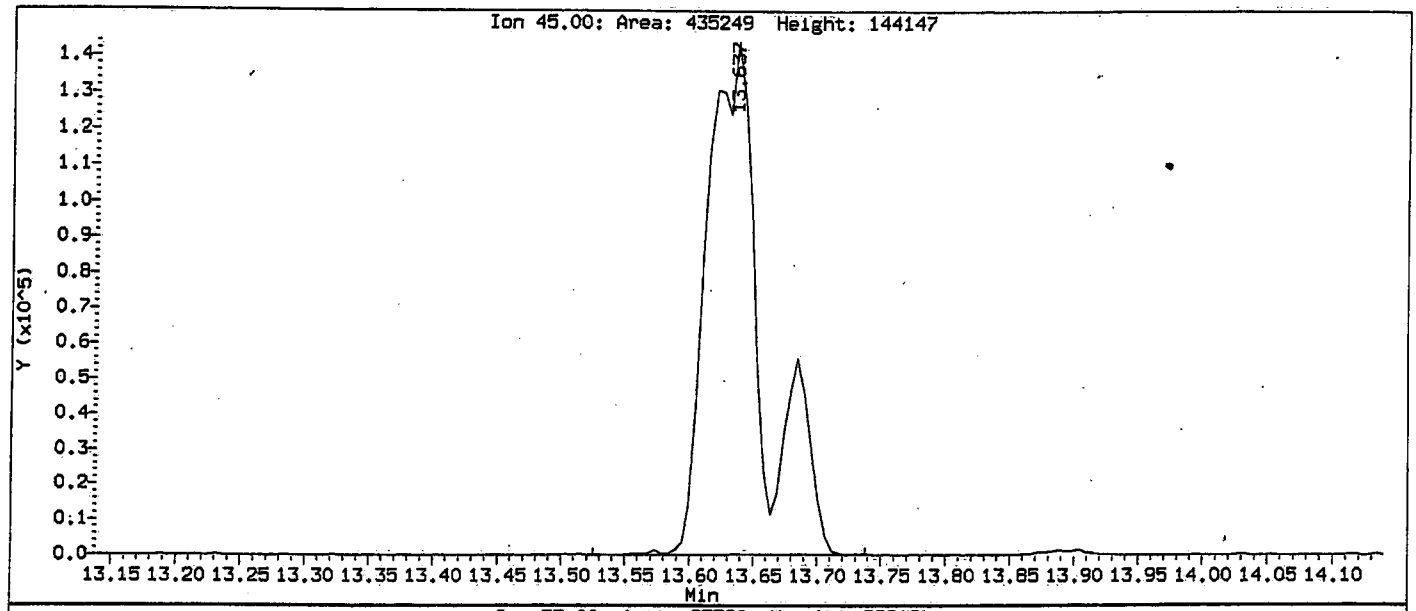
QC Flag Legend

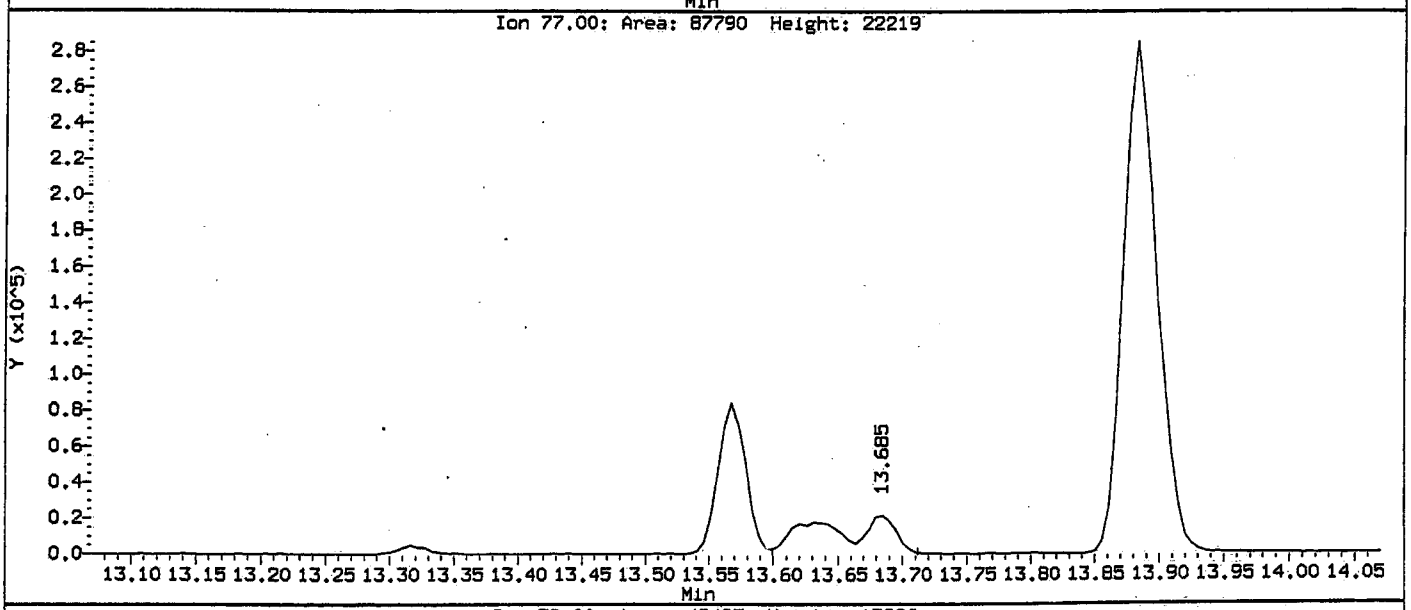
M - Compound response manually integrated.

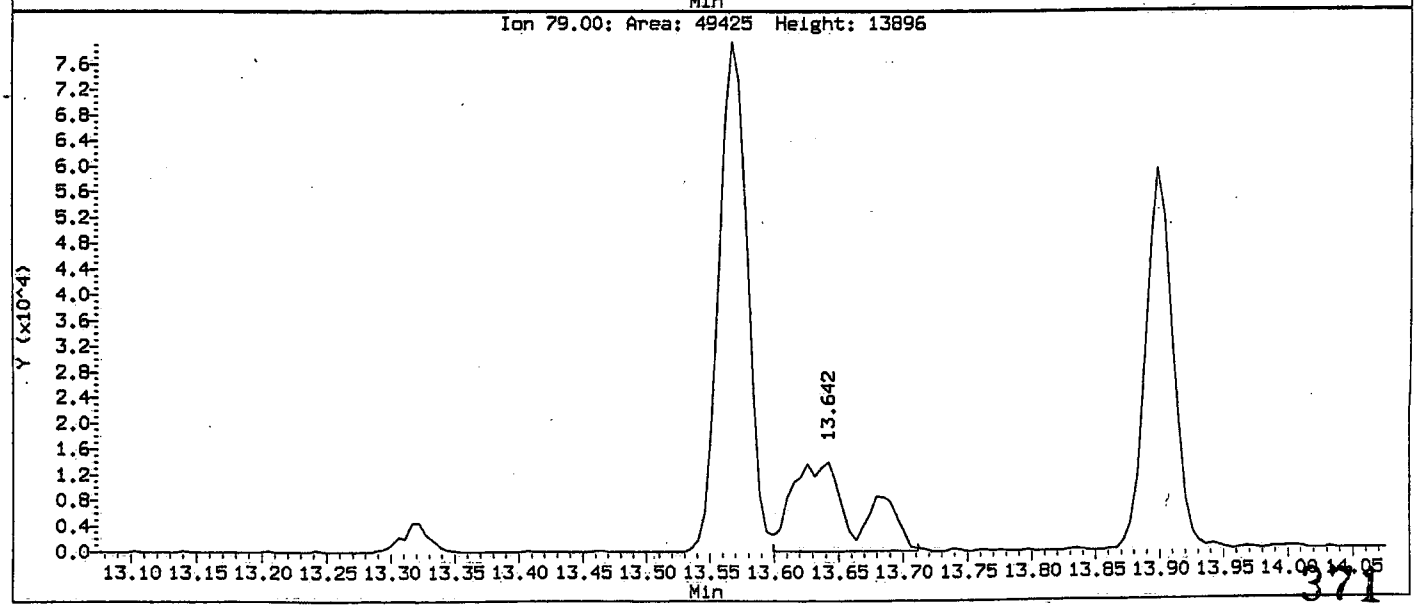
OS 09/12/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5221.D
Injection Date: 08-SEP-2000 15:18
Instrument: s3.i
Client Sample ID: SSTD0203L

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







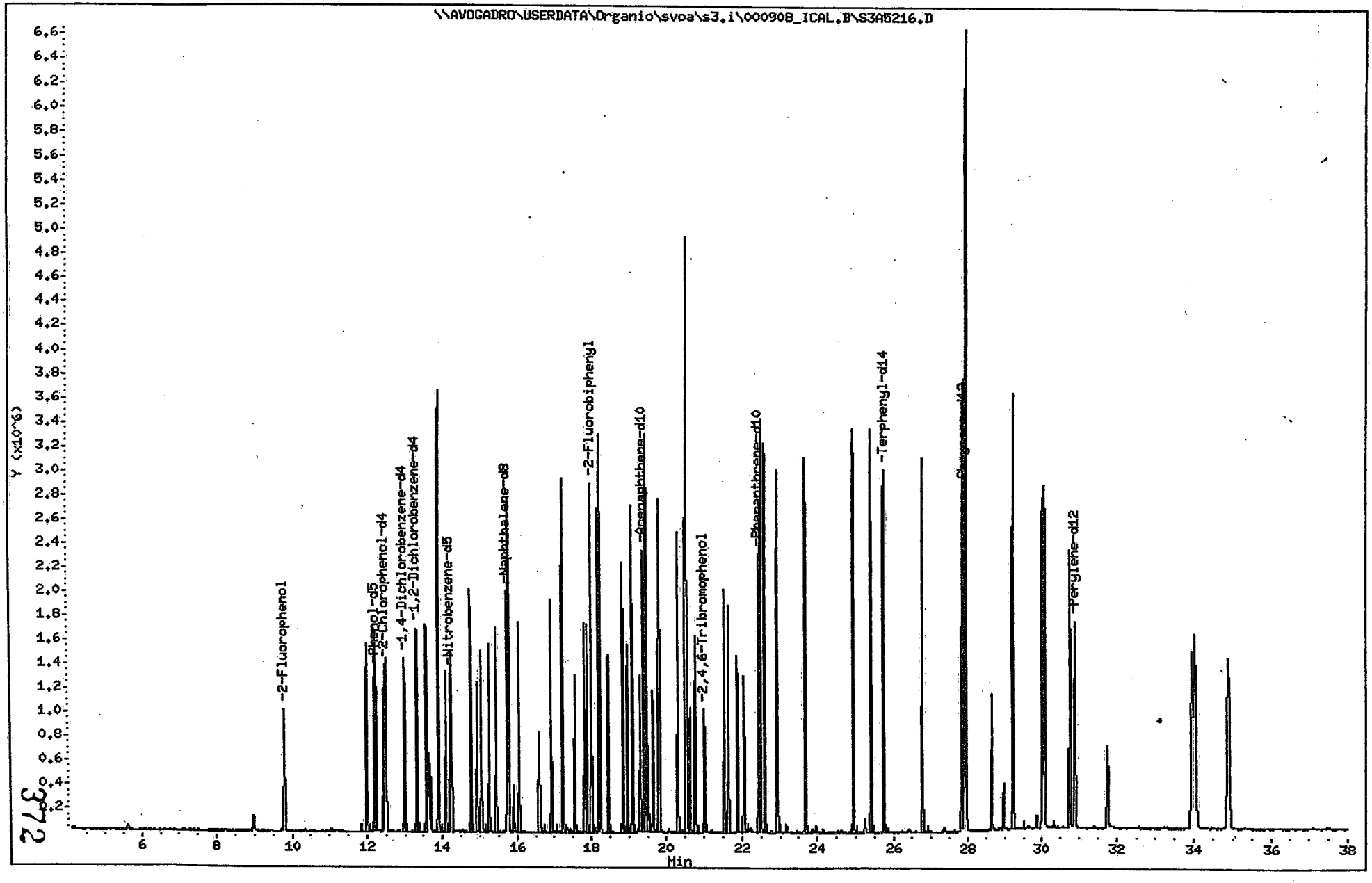
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5216.D
Date : 08-SEP-2000 11:19
Client ID: SSTD0503L
Sample Info: SS0908A,SSTD0503L

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



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Data File: S3A5216.D
Report Date: 09-Sep-2000 15:01

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5216.D
Lab Smp Id: SS0908A Client Smp ID: SSTD0503L
Inj Date : 08-SEP-2000 11:19
Operator : QY Inst ID: s3.i
Smp Info : SS0908A,SSTD0503L
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\s3_olm4_1.m
Meth Date : 09-Sep-2000 15:01 mtl Quant Type: ISTD
Cal Date : 08-SEP-2000 11:19 Cal File: S3A5216.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	9.797	9.797	(0.754)	629049	50.0000	50
2 Benzaldehyde	77	11.992	11.992	(0.923)	562866	50.0000	56
$ 3 Phenol-d5	99	12.201	12.201	(0.940)	797064	50.0000	50
4 Phenol	94	12.227	12.227	(0.942)	825742	50.0000	50
5 bis(2-Chloroethyl)Ether	93	12.436	12.436	(0.958)	642477	50.0000	51
$ 6 2-Chlorophenol-d4	132	12.468	12.468	(0.960)	697823	50.0000	50
7 2-Chlorophenol	128	12.505	12.505	(0.963)	687528	50.0000	50
* 8 1,4-Dichlorobenzene-d4	152	12.986	12.986	(1.000)	399931	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	13.322	13.322	(1.026)	461148	50.0000	51
10 2-Methylphenol	108	13.568	13.568	(1.045)	598966	50.0000	50
11 2,2'-oxybis(1-Chloropropane)	45	13.638	13.638	(1.050)	803180	50.0000	51(M)
12 4-Methylphenol	108	13.905	13.905	(1.071)	634850	50.0000	49
13 Acetophenone	105	13.883	13.883	(1.069)	930344	50.0000	50
14 N-Nitroso-di-n-propylamine	70	13.905	13.905	(1.071)	435703	50.0000	50
15 Hexachloroethane	117	14.091	14.091	(1.085)	271885	50.0000	50
$ 16 Nitrobenzene-d5	82	14.198	14.198	(0.903)	699900	50.0000	52
17 Nitrobenzene	77	14.241	14.241	(0.906)	730033	50.0000	52
18 Isophorone	82	14.764	14.764	(0.939)	1295425	50.0000	53
19 2-Nitrophenol	139	14.925	14.925	(0.949)	384809	50.0000	52
20 2,4-Dimethylphenol	107	15.037	15.037	(0.956)	485088	50.0000	46
21 bis(2-Chloroethoxy)methane	93	15.245	15.245	(0.969)	790488	50.0000	53
22 2,4-Dichlorophenol	162	15.432	15.432	(0.981)	574474	50.0000	53
* 23 Naphthalene-d8	136	15.726	15.726	(1.000)	1454245	40.0000	
24 Naphthalene	128	15.774	15.774	(1.003)	2085214	50.0000	53
25 4-Chloroaniline	127	15.897	15.897	(1.011)	180545	50.0000	50
26 Hexachlorobutadiene	225	16.046	16.046	(1.020)	296098	50.0000	52

LS 09/12/00

Data File: S3A5216.D
Report Date: 09-Sep-2000 15:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	16.591	16.591	(1.055)	238488	50.0000	55
	28 4-Chloro-3-Methylphenol	107	16.917	16.917	(1.076)	580844	50.0000	52
	29 2-Methylnaphthalene	142	17.227	17.227	(1.095)	1370772	50.0000	53
	30 Hexachlorocyclopentadiene	237	17.553	17.553	(0.905)	313785	50.0000	47
	31 2,4,6-Trichlorophenol	196	17.814	17.814	(0.919)	380140	50.0000	50
	32 2,4,5-Trichlorophenol	196	17.884	17.884	(0.923)	419380	50.0000	50
$	33 2-Fluorobiphenyl	172	17.996	17.996	(0.928)	1485887	50.0000	51
	34 1,1'-Biphenyl	154	18.204	18.204	(0.939)	1697547	50.0000	51
	35 2-Chloronaphthalene	162	18.236	18.236	(0.941)	1280043	50.0000	51
	36 2-Nitroaniline	65	18.450	18.450	(0.952)	399442	50.0000	51
	37 Dimethylphthalate	163	18.845	18.845	(0.972)	1492891	50.0000	51
	38 2,6-Dinitrotoluene	165	18.963	18.963	(0.978)	349662	50.0000	50
	39 Acenaphthylene	152	19.091	19.091	(0.985)	1973773	50.0000	51
	40 3-Nitroaniline	138	19.294	19.294	(0.995)	356873	50.0000	50
*	41 Acenaphthene-d10	164	19.384	19.384	(1.000)	885120	40.0000	
	42 Acenaphthene	153	19.454	19.454	(1.004)	1323286	50.0000	51
	43 2,4-Dinitrophenol	184	19.513	19.513	(1.007)	167219	50.0000	45
	44 4-Nitrophenol	109	19.636	19.636	(1.013)	187919	50.0000	49
	45 2,4-Dinitrotoluene	165	19.785	19.785	(1.021)	485235	50.0000	50
	46 Dibenzofuran	168	19.812	19.812	(1.022)	1872237	50.0000	51
	47 Diethylphthalate	149	20.303	20.303	(1.047)	1468837	50.0000	51
	48 4-Chlorophenyl-phenylether	204	20.527	20.527	(1.059)	678421	50.0000	51
	49 Fluorene	166	20.517	20.517	(1.058)	1537784	50.0000	51
	50 4-Nitroaniline	138	20.549	20.549	(1.060)	406548	50.0000	49
	51 4,6-Dinitro-2-methylphenol	198	20.618	20.618	(0.919)	253987	50.0000	48
	52 N-Nitrosodiphenylamine (1)	169	20.768	20.768	(0.925)	664711	50.0000	50
$	53 2,4,6-Tribromophenol	330	21.008	21.008	(0.936)	158987	50.0000	50
	54 4-Bromophenyl-phenylether	248	21.537	21.537	(0.960)	358074	50.0000	51
	55 Hexachlorobenzene	284	21.644	21.644	(0.964)	363768	50.0000	50
	56 Atrazine	200	21.879	21.879	(0.975)	258262	50.0000	53
	57 Pentachlorophenol	266	22.050	22.050	(0.982)	224152	50.0000	48
*	58 Phenanthrene-d10	188	22.445	22.445	(1.000)	1430694	40.0000	
	59 Phenanthrene	178	22.498	22.498	(1.002)	2176155	50.0000	52
	60 Anthracene	178	22.600	22.600	(1.007)	2140483	50.0000	51
	61 Carbazole	167	22.936	22.936	(1.022)	2050174	50.0000	52
	62 Di-n-butylphthalate	149	23.684	23.684	(1.055)	2567057	50.0000	53
	63 Fluoranthene	202	24.945	24.945	(1.111)	2198502	50.0000	52
	64 Pyrene	202	25.409	25.409	(0.911)	2295714	50.0000	51
$	65 Terphenyl-d14	244	25.746	25.746	(0.923)	1589175	50.0000	51
	66 Butylbenzylphthalate	149	26.766	26.766	(0.960)	1168128	50.0000	50
	67 3,3'-Dichlorobenzidine	252	27.823	27.823	(0.998)	560621	50.0000	49
	68 bis(2-Ethylhexyl)phthalate	149	27.952	27.952	(1.002)	1661724	50.0000	51
	69 Benzo(a)anthracene	228	27.866	27.866	(0.999)	2162273	50.0000	52
*	70 Chrysene-d12	240	27.893	27.893	(1.000)	1314815	40.0000	
	71 Chrysene	228	27.941	27.941	(1.002)	2018920	50.0000	52
	72 Di-n-octylphthalate	149	29.217	29.217	(0.946)	2733144	50.0000	52
	73 Benzo(b)fluoranthene	252	30.008	30.008	(0.972)	2144477	50.0000	52

Data File: S3A5216.D
Report Date: 09-Sep-2000 15:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	30.072	30.072	(0.974)	2168686	50.0000	51
75 Benzo(a)pyrene	252	30.750	30.750	(0.996)	1898336	50.0000	51
* 76 Perylene-d12	264	30.884	30.884	(1.000)	1205613	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	33.966	33.966	(1.100)	2064332	50.0000	52
78 Dibenzo(a,h)anthracene	278	34.035	34.035	(1.102)	1991356	50.0000	51
79 Benzo(g,h,i)perylene	276	34.906	34.906	(1.130)	1999909	50.0000	52

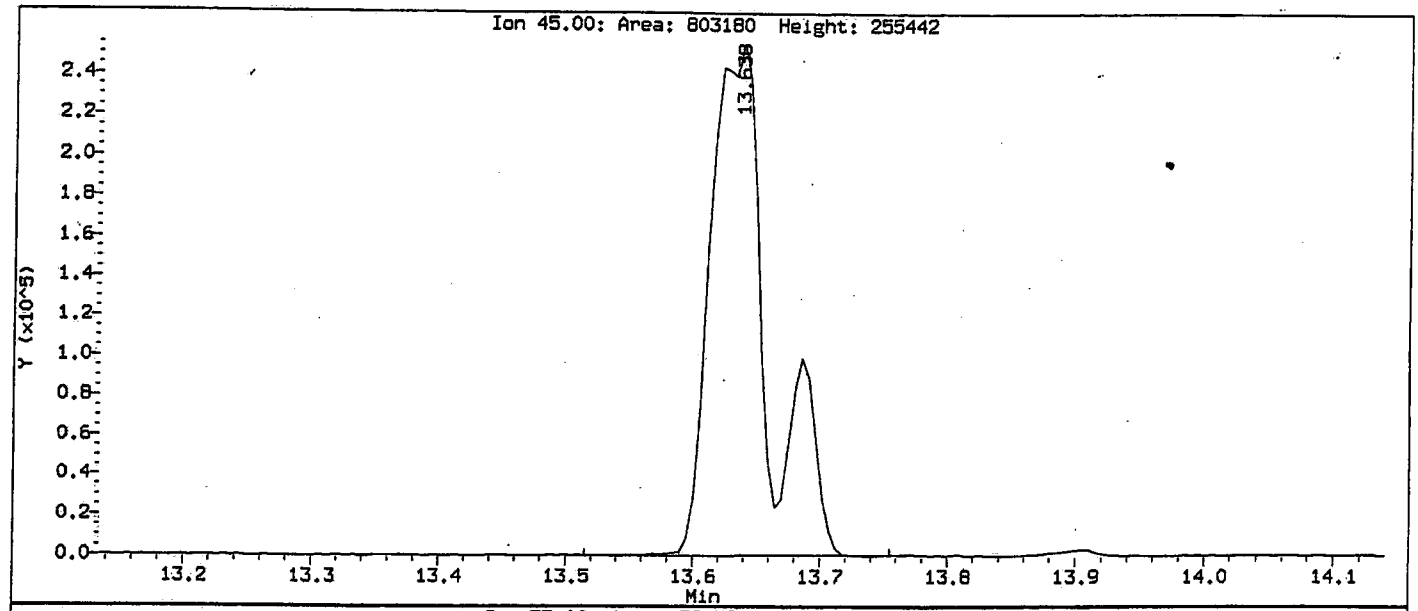
QC Flag Legend

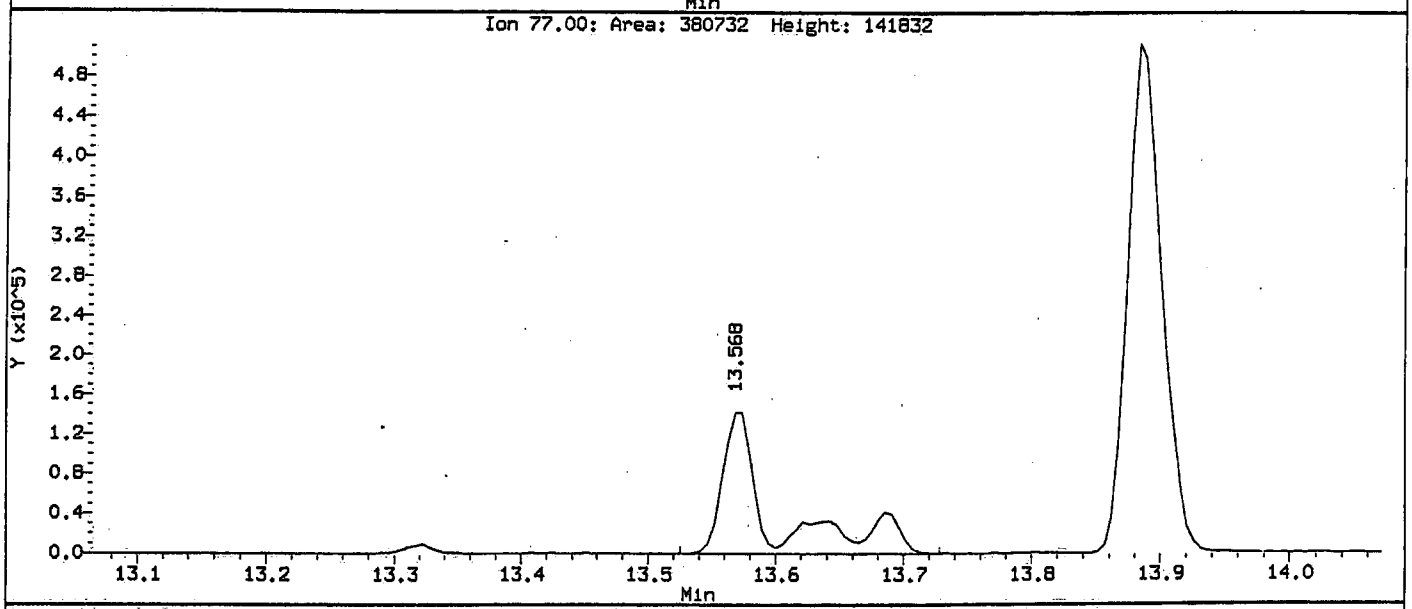
M - Compound response manually integrated.

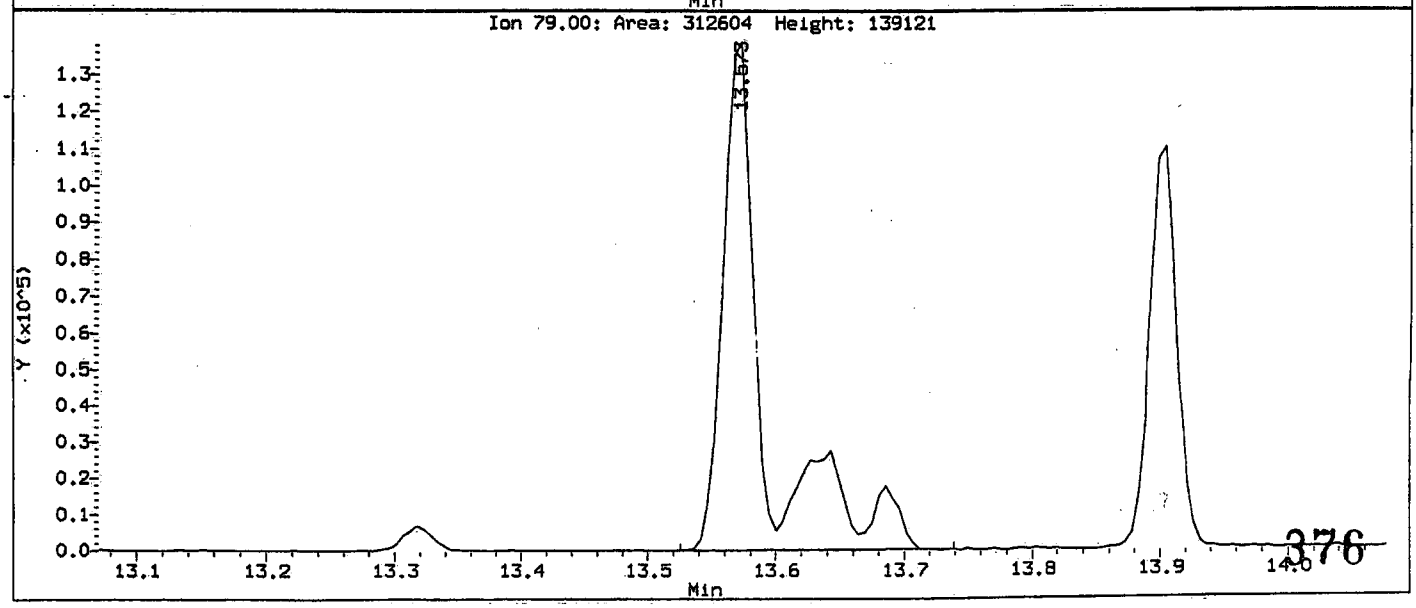
ec 09/21/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5216.D
Injection Date: 08-SEP-2000 11:19
Instrument: s3.i
Client Sample ID: SSTD0503L

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







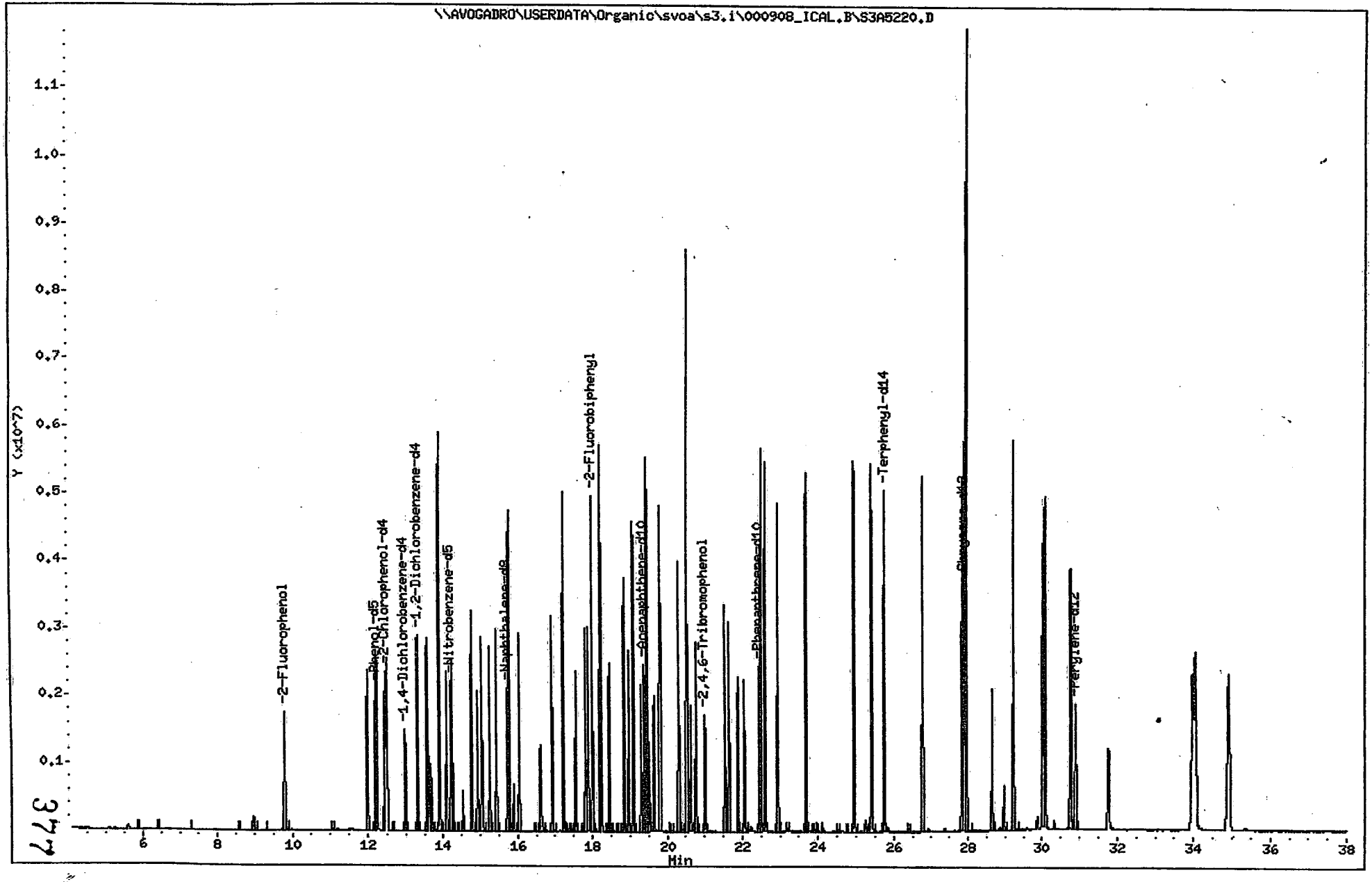
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5220.D
Date : 08-SEP-2000 14:32
Client ID: SSTD0803L
Sample Info: SS0908D,SSTD0803L

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



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Data File: S3A5220.D
Report Date: 08-Sep-2000 16:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5220.D
Lab Smp Id: SS0908D Client Smp ID: SSTD0803L
Inj Date : 08-SEP-2000 14:32
Operator : QY Inst ID: s3.i
Smp Info : SS0908D,SSTD0803L
Misc Info : 1,3,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\s3_olm4_1.m
Meth Date : 08-Sep-2000 16:55 mtl Quant Type: ISTD
Cal Date : 08-SEP-2000 11:19 Cal File: S3A5216.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	9.798	9.797	(0.754)	1092534	80.0000	80
	2 Benzaldehyde	77	11.993	11.992	(0.924)	845804	80.0000	77
$	3 Phenol-d5	99	12.201	12.201	(0.940)	1368167	80.0000	80
	4 Phenol	94	12.233	12.227	(0.942)	1409979	80.0000	80
	5 bis(2-Chloroethyl)Ether	93	12.436	12.436	(0.958)	1072721	80.0000	79
$	6 2-Chlorophenol-d4	132	12.468	12.468	(0.960)	1192611	80.0000	80
	7 2-Chlorophenol	128	12.505	12.505	(0.963)	1171035	80.0000	80
*	8 1,4-Dichlorobenzene-d4	152	12.986	12.986	(1.000)	425967	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	13.323	13.322	(1.026)	777379	80.0000	80
	10 2-Methylphenol	108	13.574	13.568	(1.045)	1038792	80.0000	80
	11 2,2'-oxybis(1-Chloropropane)	45	13.643	13.638	(1.051)	1342442	80.0000	79 (M)
	12 4-Methylphenol	108	13.910	13.905	(1.071)	1116582	80.0000	81
	13 Acetophenone	105	13.889	13.883	(1.070)	1582857	80.0000	80
	14 N-Nitroso-di-n-propylamine	70	13.910	13.905	(1.071)	746683	80.0000	80
	15 Hexachloroethane	117	14.092	14.091	(1.085)	470880	80.0000	80
$	16 Nitrobenzene-d5	82	14.204	14.198	(0.903)	1201750	80.0000	79
	17 Nitrobenzene	77	14.247	14.241	(0.906)	1251475	80.0000	79
	18 Isophorone	82	14.770	14.764	(0.939)	2197732	80.0000	79
	19 2-Nitrophenol	139	14.925	14.925	(0.949)	658475	80.0000	79
	20 2,4-Dimethylphenol	107	15.037	15.037	(0.956)	947891	80.0000	83
	21 bis(2-Chloroethoxy)methane	93	15.251	15.245	(0.969)	1322599	80.0000	79
	22 2,4-Dichlorophenol	162	15.432	15.432	(0.981)	967555	80.0000	78
*	23 Naphthalene-d8	136	15.731	15.726	(1.000)	1607232	40.0000	
	24 Naphthalene	128	15.774	15.774	(1.003)	3519622	80.0000	80
	25 4-Chloroaniline	127	15.897	15.897	(1.011)	343302	80.0000	87
	26 Hexachlorobutadiene	225	16.047	16.046	(1.020)	500779	80.0000	79

Data File: S3A5220.D
Report Date: 08-Sep-2000 16:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	16.607	16.591	(1.056)	408626	80.0000	82
	28 4-Chloro-3-Methylphenol	107	16.923	16.917	(1.076)	994735	80.0000	79
	29 2-Methylnaphthalene	142	17.227	17.227	(1.095)	2318369	80.0000	79
	30 Hexachlorocyclopentadiene	237	17.558	17.553	(0.906)	593644	80.0000	82
	31 2,4,6-Trichlorophenol	196	17.815	17.814	(0.919)	657678	80.0000	80
	32 2,4,5-Trichlorophenol	196	17.884	17.884	(0.923)	712871	80.0000	79
$	33 2-Fluorobiphenyl	172	18.001	17.996	(0.929)	2513677	80.0000	80
	34 1,1'-Biphenyl	154	18.204	18.204	(0.939)	2872833	80.0000	80
	35 2-Chloronaphthalene	162	18.242	18.236	(0.941)	2164783	80.0000	80
	36 2-Nitroaniline	65	18.450	18.450	(0.952)	672460	80.0000	79
	37 Dimethylphthalate	163	18.845	18.845	(0.972)	2514118	80.0000	80
	38 2,6-Dinitrotoluene	165	18.963	18.963	(0.978)	595991	80.0000	79
	39 Acenaphthylene	152	19.091	19.091	(0.985)	3342224	80.0000	81
	40 3-Nitroaniline	138	19.299	19.294	(0.996)	615048	80.0000	80
*	41 Acenaphthene-d10	164	19.385	19.384	(1.000)	948551	40.0000	
	42 Acenaphthene	153	19.454	19.454	(1.004)	2231874	80.0000	80
	43 2,4-Dinitrophenol	184	19.518	19.513	(1.007)	319563	80.0000	80
	44 4-Nitrophenol	109	19.641	19.636	(1.013)	333644	80.0000	80
	45 2,4-Dinitrotoluene	165	19.791	19.785	(1.021)	848616	80.0000	80
	46 Dibenzofuran	168	19.812	19.812	(1.022)	3150615	80.0000	80
	47 Diethylphthalate	149	20.309	20.303	(1.048)	2458324	80.0000	79
	48 4-Chlorophenyl-phenylether	204	20.528	20.527	(1.059)	1136390	80.0000	80
	49 Fluorene	166	20.522	20.517	(1.059)	2573543	80.0000	80
	50 4-Nitroaniline	138	20.560	20.549	(1.061)	726369	80.0000	81
	51 4,6-Dinitro-2-methylphenol	198	20.624	20.618	(0.919)	454936	80.0000	80
	52 N-Nitrosodiphenylamine (1)	169	20.768	20.768	(0.925)	1164336	80.0000	82
$	53 2,4,6-Tribromophenol	330	21.008	21.008	(0.936)	275449	80.0000	79
	54 4-Bromophenyl-phenylether	248	21.537	21.537	(0.960)	607967	80.0000	80
	55 Hexachlorobenzene	284	21.644	21.644	(0.964)	611974	80.0000	79
	56 Atrazine	200	21.879	21.879	(0.975)	425004	80.0000	80
	57 Pentachlorophenol	266	22.050	22.050	(0.982)	401054	80.0000	79
*	58 Phenanthrene-d10	188	22.445	22.445	(1.000)	1538091	40.0000	
	59 Phenanthrene	178	22.499	22.498	(1.002)	3666859	80.0000	81
	60 Anthracene	178	22.605	22.600	(1.007)	3664792	80.0000	81
	61 Carbazole	167	22.937	22.936	(1.022)	3432034	80.0000	80
	62 Di-n-butylphthalate	149	23.684	23.684	(1.055)	4280207	80.0000	81
	63 Fluoranthene	202	24.945	24.945	(1.111)	3689839	80.0000	80
	64 Pyrene	202	25.415	25.409	(0.911)	3840345	80.0000	80
$	65 Terphenyl-d14	244	25.746	25.746	(0.923)	2687447	80.0000	80
	66 Butylbenzylphthalate	149	26.771	26.766	(0.960)	2009093	80.0000	80
	67 3,3'-Dichlorobenzidine	252	27.824	27.823	(0.998)	1023983	80.0000	83
	68 bis(2-Ethylhexyl)phthalate	149	27.952	27.952	(1.002)	2826330	80.0000	80
	69 Benzo(a)anthracene	228	27.872	27.866	(0.999)	3611038	80.0000	80
*	70 Chrysene-d12	240	27.893	27.893	(1.000)	1403144	40.0000	
	71 Chrysene	228	27.947	27.941	(1.002)	3379346	80.0000	81
	72 Di-n-octylphthalate	149	29.223	29.217	(0.946)	4596330	80.0000	80
	73 Benzo(b)fluoranthene	252	30.014	30.008	(0.972)	3603233	80.0000	80

Data File: S3A5220.D
Report Date: 08-Sep-2000 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	30.078	30.072	(0.974)	3611918	80.0000	79
75 Benzo(a)pyrene	252	30.761	30.750	(0.996)	3227796	80.0000	80
* 76 Perylene-d12	264	30.884	30.884	(1.000)	1296242	40.0000	*
77 Indeno(1,2,3-cd)pyrene	276	33.971	33.966	(1.100)	3404132	80.0000	78
78 Dibenzo(a,h)anthracene	278	34.051	34.035	(1.103)	3352875	80.0000	79
79 Benzo(g,h,i)perylene	276	34.922	34.906	(1.131)	3332535	80.0000	79 (M)

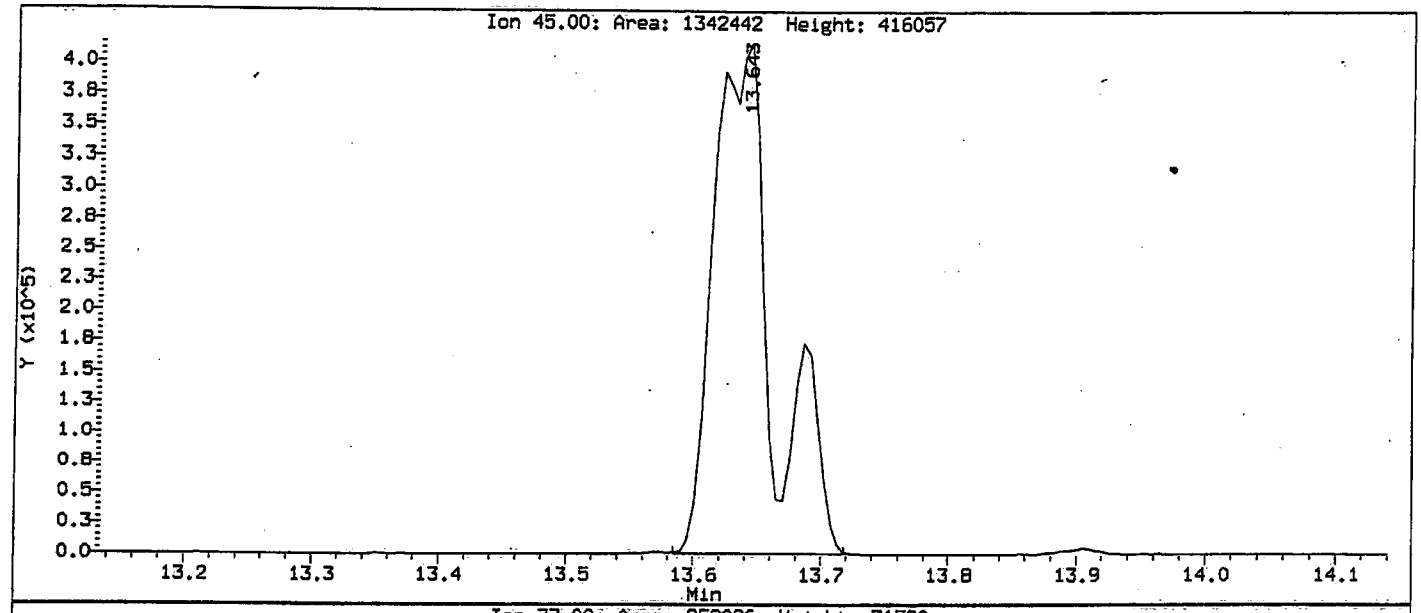
09/12/00

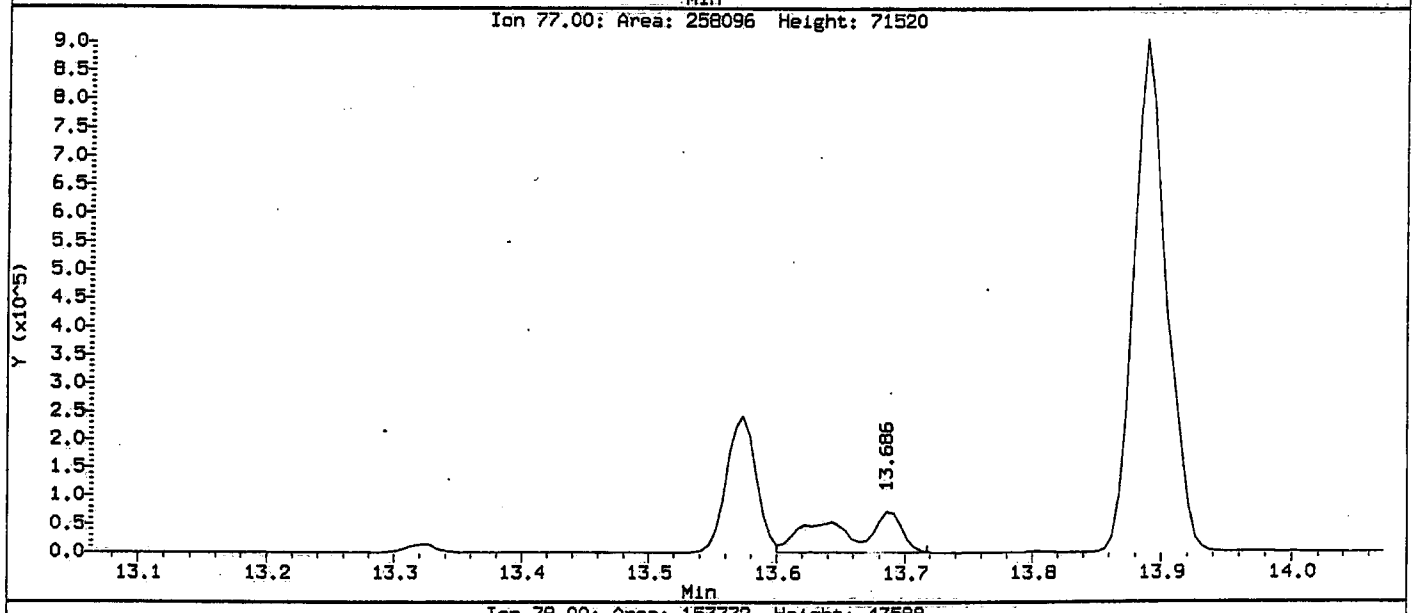
QC Flag Legend

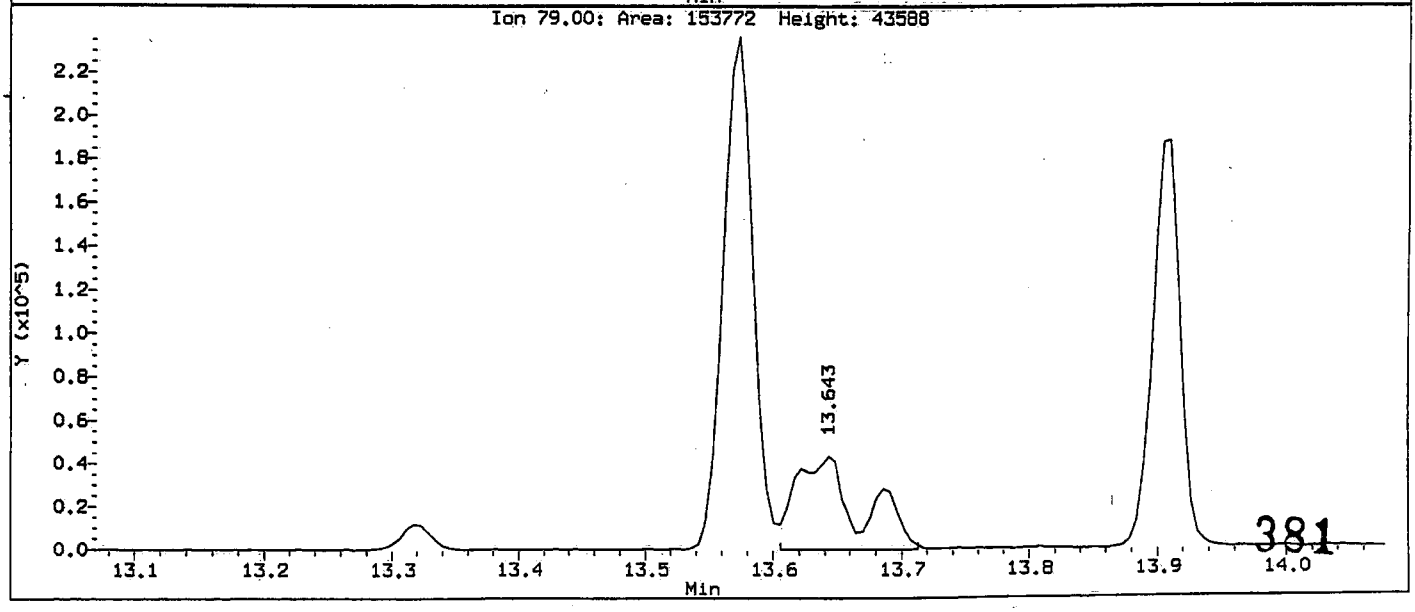
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5220.D
Injection Date: 08-SEP-2000 14:32
Instrument: s3.i
Client Sample ID: SSTD0803L

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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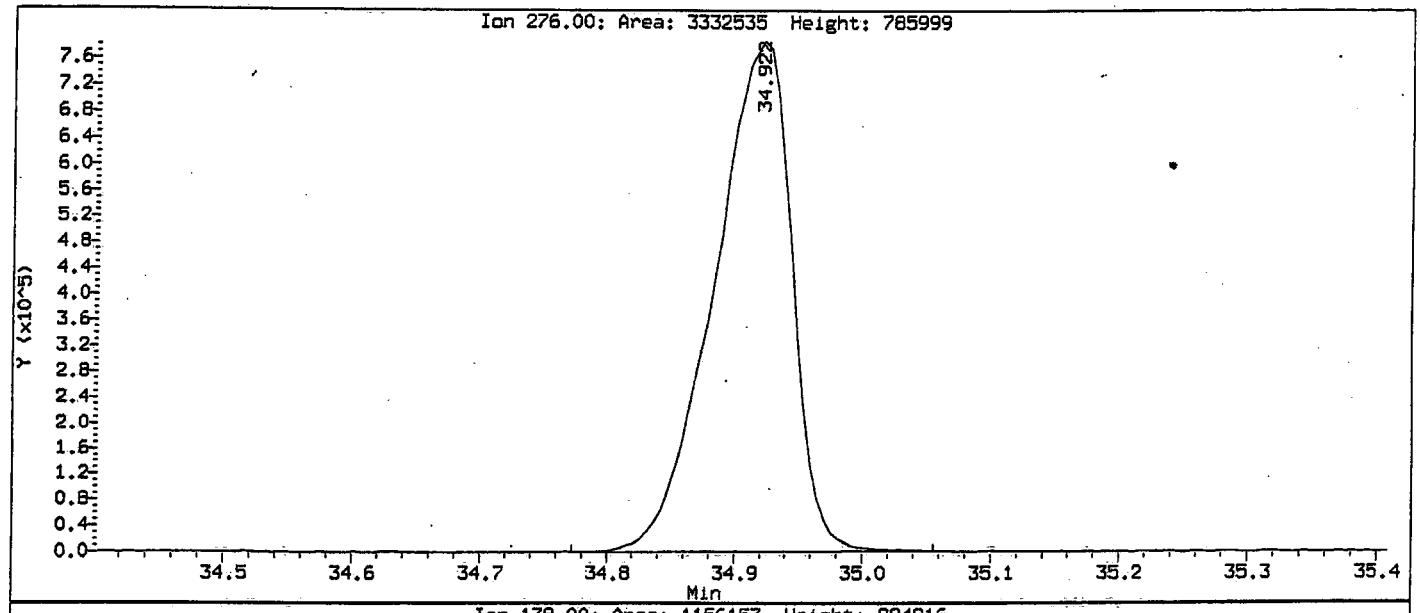
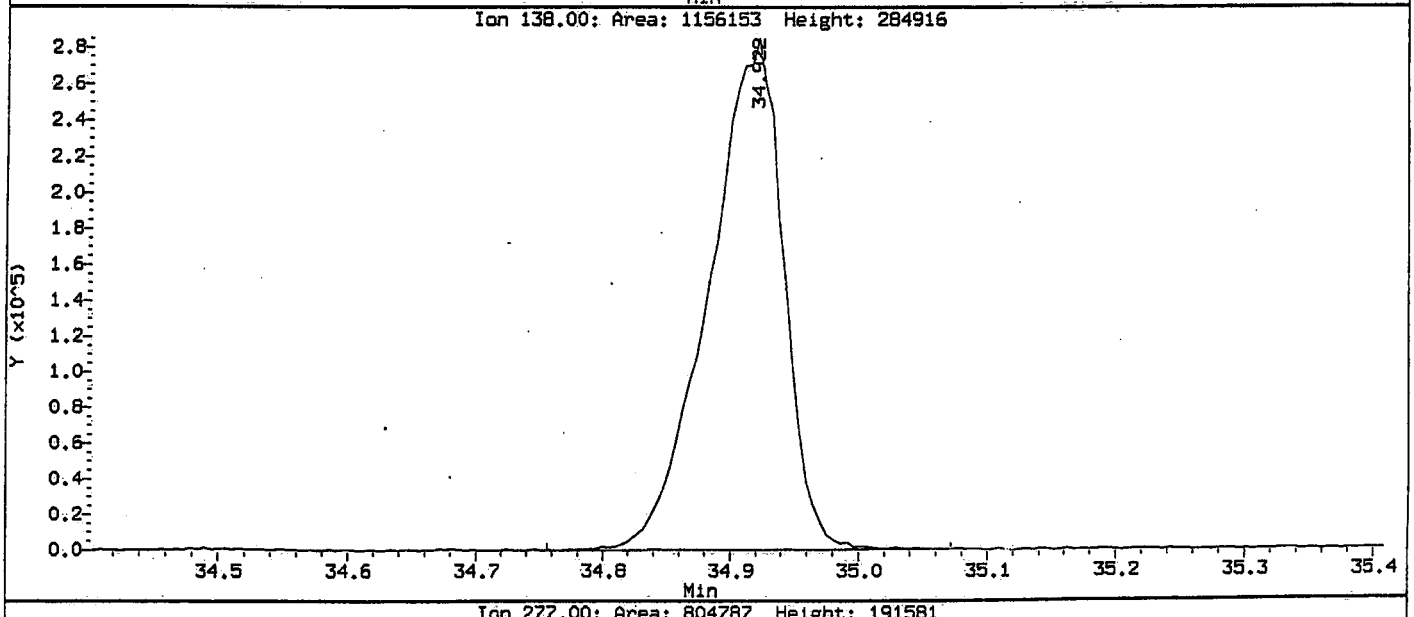
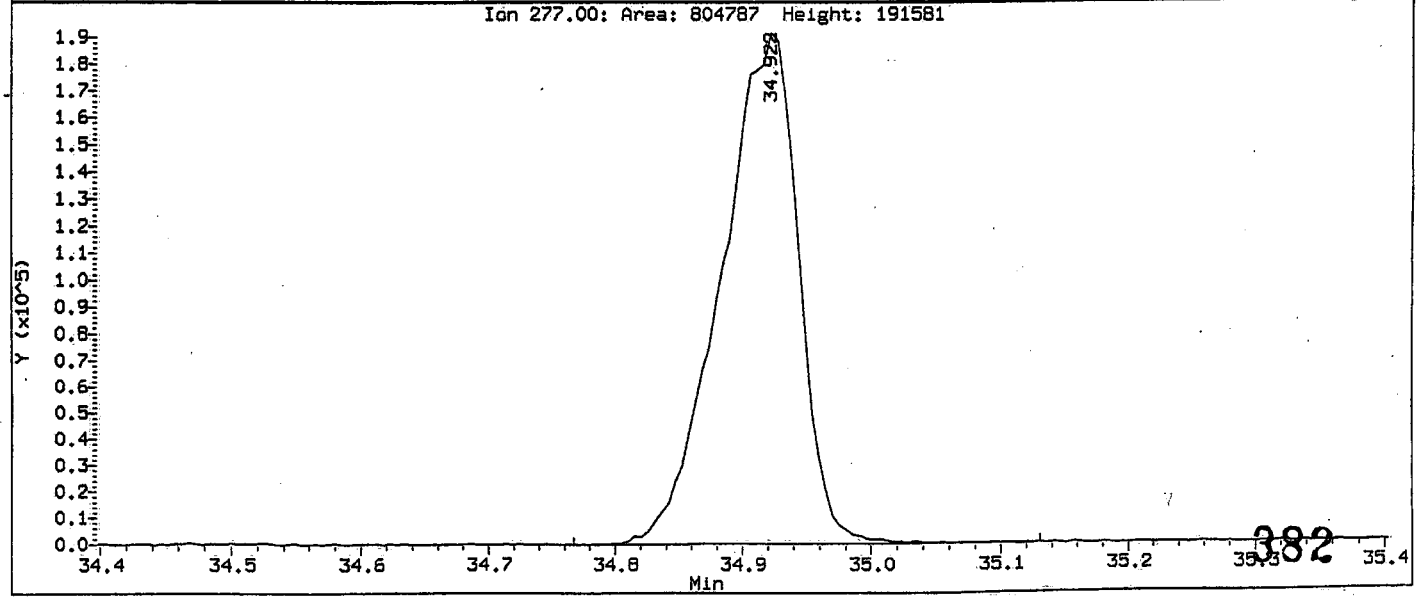
Injection Date: 08-SEP-2000 14:32
Instrument: s3.i
Client Sample ID: SSTD0803L

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





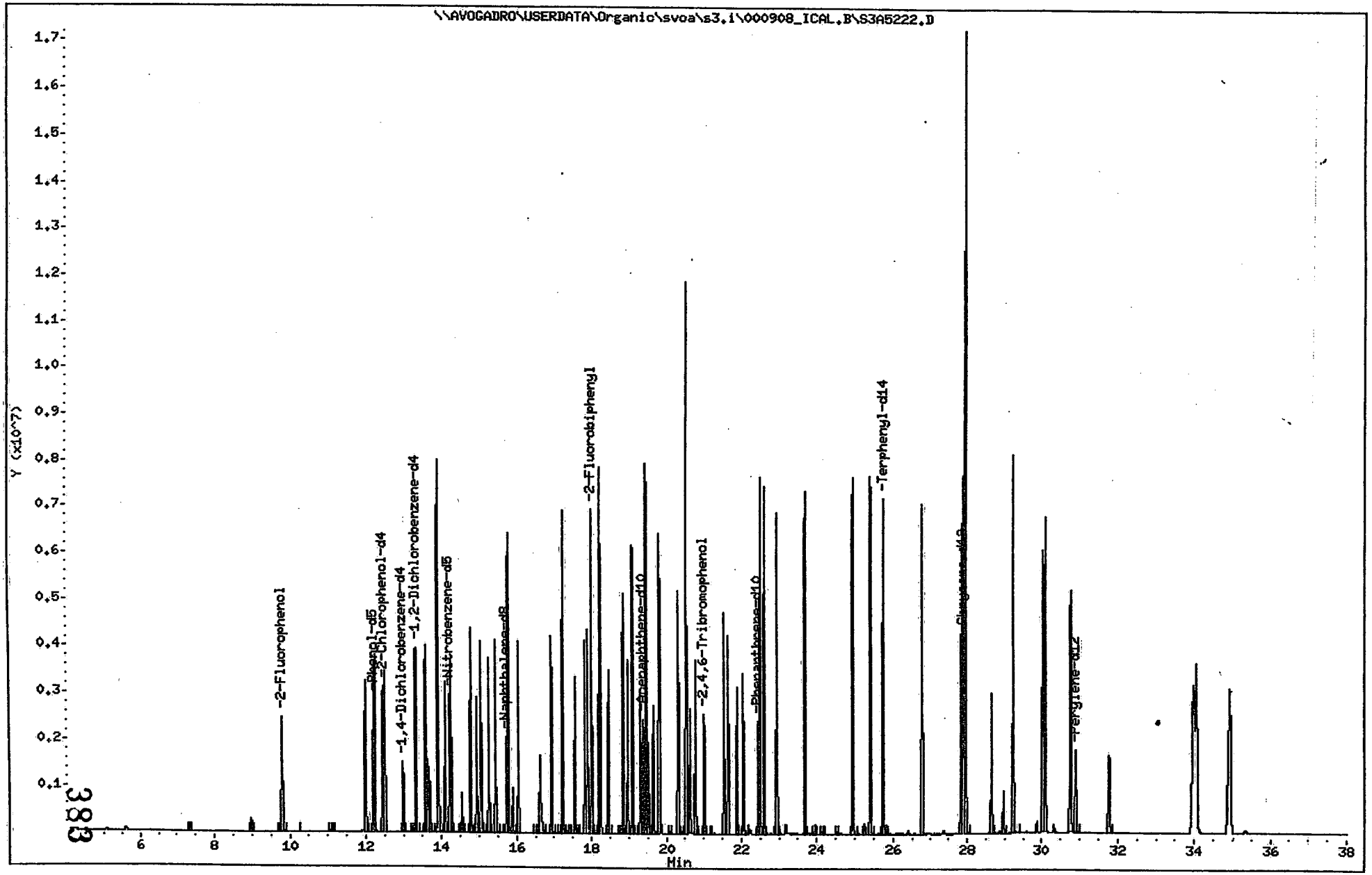


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5222.D
Date : 08-SEP-2000 16:05
Client ID: SSTD1203L
Sample Info: SS0908C,SSTD1203L

Instrument: s3.i

Operator: QY
Column diameter: 0.25

Column phase: DB-5MS



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Data File: S3A5222.D
Report Date: 08-Sep-2000 16:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5222.D
Lab Smp Id: SS0908C Client Smp ID: SSTD1203L
Inj Date : 08-SEP-2000 16:05
Operator : QY Inst ID: s3.i
Smp Info : SS0908C,SSTD1203L
Misc Info : 1,4,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\s3_olm4_1.m
Meth Date : 08-Sep-2000 16:55 mtl Quant Type: ISTD
Cal Date : 08-SEP-2000 11:19 Cal File: S3A5216.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	9.804	9.797	(0.755)	1537391	120.000	120
2 Benzaldehyde	77	11.994	11.992	(0.923)	1196402	120.000	120
$ 3 Phenol-d5	99	12.207	12.201	(0.940)	1938186	120.000	120
4 Phenol	94	12.239	12.227	(0.942)	2013148	120.000	120
5 bis(2-Chloroethyl)Ether	93	12.442	12.436	(0.958)	1543162	120.000	120
$ 6 2-Chlorophenol-d4	132	12.474	12.468	(0.960)	1701962	120.000	120
7 2-Chlorophenol	128	12.512	12.505	(0.963)	1669368	120.000	120
* 8 1,4-Dichlorobenzene-d4	152	12.992	12.986	(1.000)	416173	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	13.323	13.322	(1.025)	1110435	120.000	120
10 2-Methylphenol	108	13.574	13.568	(1.045)	1485414	120.000	120
11 2,2'-oxybis(1-Chloropropane)	45	13.644	13.638	(1.050)	1912387	120.000	120(M)
12 4-Methylphenol	108	13.911	13.905	(1.071)	1588576	120.000	120
13 Acetophenone	105	13.895	13.883	(1.069)	2244415	120.000	120
14 N-Nitroso-di-n-propylamine	70	13.916	13.905	(1.071)	1053288	120.000	120
15 Hexachloroethane	117	14.093	14.091	(1.085)	661983	120.000	120
$ 16 Nitrobenzene-d5	82	14.210	14.198	(0.904)	1704587	120.000	120
17 Nitrobenzene	77	14.253	14.241	(0.906)	1796820	120.000	120
18 Isophorone	82	14.771	14.764	(0.939)	3088471	120.000	120
19 2-Nitrophenol	139	14.931	14.925	(0.949)	936850	120.000	120
20 2,4-Dimethylphenol	107	15.043	15.037	(0.957)	1362047	120.000	120
21 bis(2-Chloroethoxy)methane	93	15.252	15.245	(0.970)	1881360	120.000	120
22 2,4-Dichlorophenol	162	15.433	15.432	(0.981)	1386387	120.000	120
* 23 Naphthalene-d8	136	15.727	15.726	(1.000)	1583085	40.0000	
24 Naphthalene	128	15.775	15.774	(1.003)	4921426	120.000	110
25 4-Chloroaniline	127	15.898	15.897	(1.011)	477202	120.000	120
26 Hexachlorobutadiene	225	16.047	16.046	(1.020)	710332	120.000	120

CS 09/12/00

Data File: S3A5222.D
Report Date: 08-Sep-2000 16:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	16.630	16.591	(1.057)	529136	120.000	110
	28 4-Chloro-3-Methylphenol	107	16.923	16.917	(1.076)	1409348	120.000	120
	29 2-Methylnaphthalene	142	17.228	17.227	(1.095)	3261649	120.000	120
	30 Hexachlorocyclopentadiene	237	17.554	17.553	(0.905)	850183	120.000	120
	31 2,4,6-Trichlorophenol	196	17.815	17.814	(0.919)	931277	120.000	120
	32 2,4,5-Trichlorophenol	196	17.890	17.884	(0.923)	1031481	120.000	120
$	33 2-Fluorobiphenyl	172	18.002	17.996	(0.929)	3526060	120.000	120
	34 1,1'-Biphenyl	154	18.205	18.204	(0.939)	4036932	120.000	120
	35 2-Chloronaphthalene	162	18.243	18.236	(0.941)	3073792	120.000	120
	36 2-Nitroaniline	65	18.456	18.450	(0.952)	959183	120.000	120
	37 Dimethylphthalate	163	18.851	18.845	(0.972)	3540527	120.000	120
	38 2,6-Dinitrotoluene	165	18.969	18.963	(0.979)	858706	120.000	120
	39 Acenaphthylene	152	19.092	19.091	(0.985)	4671425	120.000	120
	40 3-Nitroaniline	138	19.305	19.294	(0.996)	866052	120.000	120
*	41 Acenaphthene-d10	164	19.386	19.384	(1.000)	930463	40.0000	
	42 Acenaphthene	153	19.455	19.454	(1.004)	3164082	120.000	120
	43 2,4-Dinitrophenol	184	19.524	19.513	(1.007)	472893	120.000	120
	44 4-Nitrophenol	109	19.647	19.636	(1.014)	476945	120.000	120
	45 2,4-Dinitrotoluene	165	19.797	19.785	(1.021)	1201603	120.000	120
	46 Dibenzofuran	168	19.818	19.812	(1.022)	4440543	120.000	120
	47 Diethylphthalate	149	20.315	20.303	(1.048)	3501813	120.000	120
	48 4-Chlorophenyl-phenylether	204	20.534	20.527	(1.059)	1619418	120.000	120
	49 Fluorene	166	20.523	20.517	(1.059)	3643959	120.000	120
	50 4-Nitroaniline	138	20.571	20.549	(1.061)	1037326	120.000	120
	51 4,6-Dinitro-2-methylphenol	198	20.630	20.618	(0.919)	663868	120.000	120
	52 N-Nitrosodiphenylamine (1)	169	20.774	20.768	(0.925)	1634628	120.000	120
$	53 2,4,6-Tribromophenol	330	21.009	21.008	(0.936)	403210	120.000	120
	54 4-Bromophenyl-phenylether	248	21.538	21.537	(0.959)	867344	120.000	120
	55 Hexachlorobenzene	284	21.650	21.644	(0.964)	876508	120.000	120
	56 Atrazine	200	21.885	21.879	(0.975)	599220	120.000	120
	57 Pentachlorophenol	266	22.051	22.050	(0.982)	589169	120.000	120
*	58 Phenanthrene-d10	188	22.451	22.445	(1.000)	1490983	40.0000	
	59 Phenanthrene	178	22.505	22.498	(1.002)	5072882	120.000	120
	60 Anthracene	178	22.606	22.600	(1.007)	5097932	120.000	120
	61 Carbazole	167	22.943	22.936	(1.022)	4804718	120.000	120
	62 Di-n-butylphthalate	149	23.685	23.684	(1.055)	5838790	120.000	120
	63 Fluoranthene	202	24.951	24.945	(1.111)	5127079	120.000	120
	64 Pyrene	202	25.416	25.409	(0.911)	5306186	120.000	120
$	65 Terphenyl-d14	244	25.752	25.746	(0.923)	3743896	120.000	120
	66 Butylbenzylphthalate	149	26.772	26.766	(0.960)	2824517	120.000	120
	67 3,3'-Dichlorobenzidine	252	27.830	27.823	(0.998)	1421470	120.000	120
	68 bis(2-Ethylhexyl)phthalate	149	27.953	27.952	(1.002)	3981112	120.000	120
	69 Benzo(a)anthracene	228	27.878	27.866	(0.999)	5000637	120.000	120
*	70 Chrysene-d12	240	27.894	27.893	(1.000)	1352940	40.0000	
	71 Chrysene	228	27.953	27.941	(1.002)	4648152	120.000	120
	72 Di-n-octylphthalate	149	29.224	29.217	(0.946)	6312526	120.000	120
	73 Benzo(b)fluoranthene	252	30.020	30.008	(0.972)	4910182	120.000	120

Data File: S3A5222.D
Report Date: 08-Sep-2000 16:55

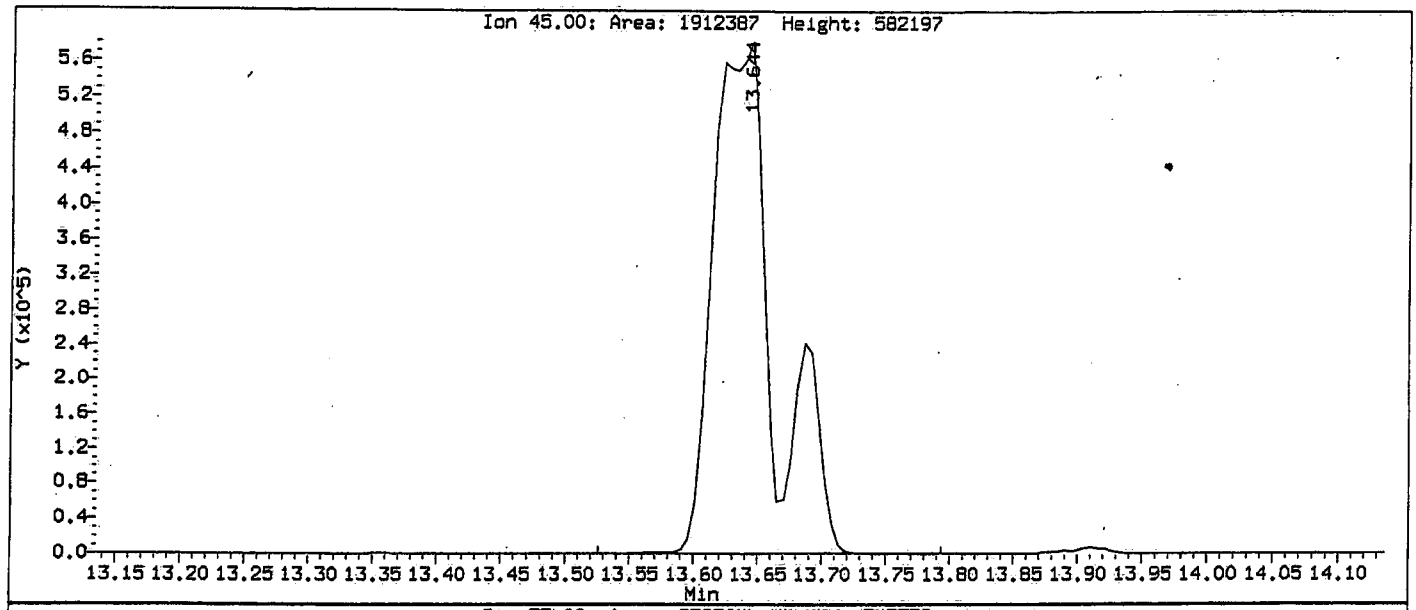
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	30.084	30.072	(0.974)	5056299	120.000	120
75 Benzo(a)pyrene	252	30.767	30.750	(0.996)	4442814	120.000	120
* 76 Perylene-d12	264	30.885	30.884	(1.000)	1235441	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	33.988	33.966	(1.100)	4756472	120.000	120
78 Dibenzo(a,h)anthracene	278	34.063	34.035	(1.103)	4724627	120.000	120
79 Benzo(g,h,i)perylene	276	34.939	34.906	(1.131)	4677244	120.000	120

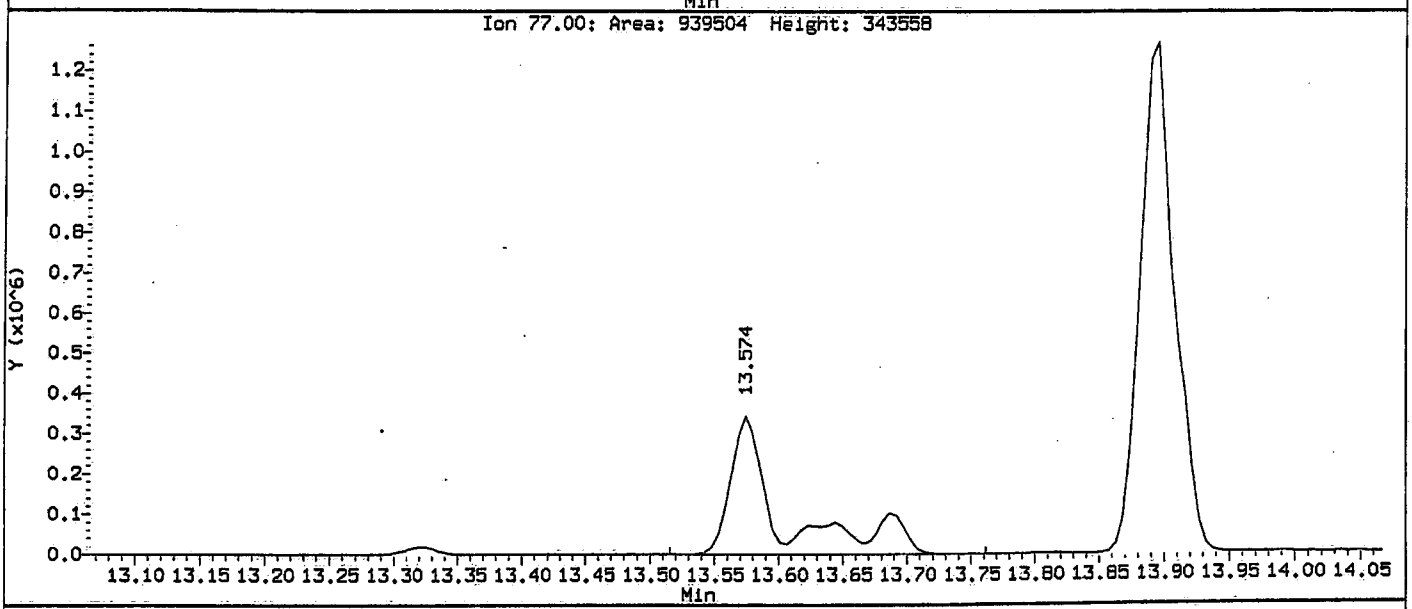
QC Flag Legend

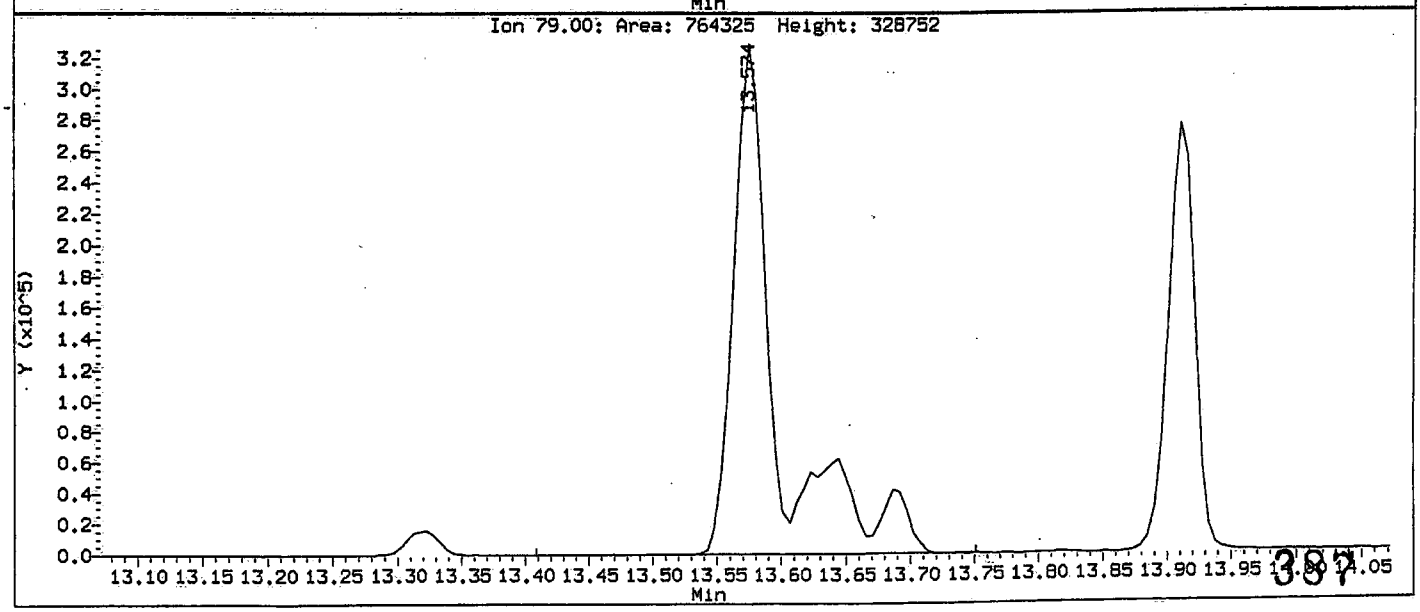
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5222.D
Injection Date: 08-SEP-2000 16:05
Instrument: s3.i
Client Sample ID: SSTD1203L

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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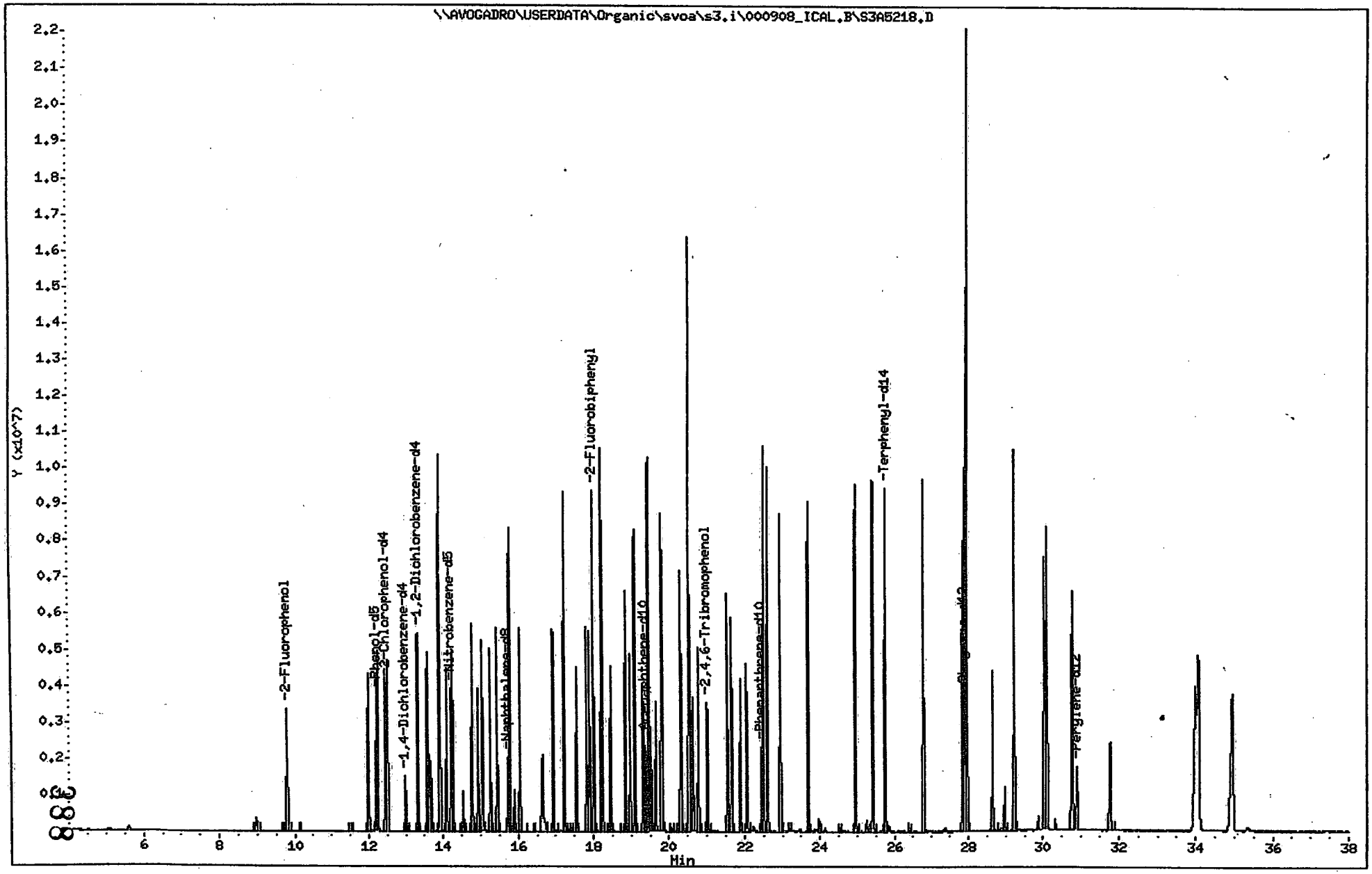
Date : 08-SEP-2000 12:58
Client ID: SSTD1603L
Sample Info: SS0908B,SSTD1603L

Instrument: s3.i

Operator: QY
Column diameter: 0.25

Column phase: DB-5MS



Data File: S3A5218.D
Report Date: 08-Sep-2000 16:55

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

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Lab Smp Id: SS0908B Client Smp ID: SSTD1603L
Inj Date : 08-SEP-2000 12:58
Operator : QY Inst ID: s3.i
Smp Info : SS0908B,SSTD1603L
Misc Info : 1,5,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\s3_olm4_1.m
Meth Date : 08-Sep-2000 16:55 mtl Quant Type: ISTD
Cal Date : 08-SEP-2000 11:19 Cal File: S3A5216.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	9.800	9.797	(0.755)	2076303	160.000	160(A)
2 Benzaldehyde	77	11.995	11.992	(0.924)	1588216	160.000	150
$ 3 Phenol-d5	99	12.214	12.201	(0.940)	2638421	160.000	160(A)
4 Phenol	94	12.246	12.227	(0.943)	2715086	160.000	160(A)
5 bis(2-Chloroethyl)Ether	93	12.444	12.436	(0.958)	2073213	160.000	160
$ 6 2-Chlorophenol-d4	132	12.476	12.468	(0.961)	2293799	160.000	160(A)
7 2-Chlorophenol	128	12.513	12.505	(0.963)	2235975	160.000	160(A)
* 8 1,4-Dichlorobenzene-d4	152	12.988	12.986	(1.000)	404677	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	13.325	13.322	(1.026)	1485804	160.000	160
10 2-Methylphenol	108	13.581	13.568	(1.046)	1976998	160.000	160(A)
11 2,2'-oxybis(1-Chloropropane)	45	13.645	13.638	(1.051)	2579355	160.000	160(M)
12 4-Methylphenol	108	13.918	13.905	(1.072)	2141677	160.000	160(A)
13 Acetophenone	105	13.896	13.883	(1.070)	3029708	160.000	160(A)
14 N-Nitroso-di-n-propylamine	70	13.923	13.905	(1.072)	1445548	160.000	160(A)
15 Hexachloroethane	117	14.094	14.091	(1.085)	896987	160.000	160(A)
$ 16 Nitrobenzene-d5	82	14.212	14.198	(0.904)	2310819	160.000	160
17 Nitrobenzene	77	14.254	14.241	(0.906)	2404106	160.000	160
18 Isophorone	82	14.778	14.764	(0.940)	4135297	160.000	160
19 2-Nitrophenol	139	14.933	14.925	(0.949)	1274273	160.000	160
20 2,4-Dimethylphenol	107	15.045	15.037	(0.957)	1808998	160.000	170(A)
21 bis(2-Chloroethoxy)methane	93	15.258	15.245	(0.970)	2528947	160.000	160
22 2,4-Dichlorophenol	162	15.440	15.432	(0.982)	1872712	160.000	160
* 23 Naphthalene-d8	136	15.728	15.726	(1.000)	1543921	40.0000	
24 Naphthalene	128	15.782	15.774	(1.003)	6427968	160.000	150
25 4-Chloroaniline	127	15.899	15.897	(1.011)	552734	160.000	150
26 Hexachlorobutadiene	225	16.049	16.046	(1.020)	955908	160.000	160

CG 09/12/00

Data File: S3A5218.D
Report Date: 08-Sep-2000 16:55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	16.647	16.591	(1.058)	696983	160.000	150
	28 4-Chloro-3-Methylphenol	107	16.930	16.917	(1.076)	1928213	160.000	160
	29 2-Methylnaphthalene	142	17.229	17.227	(1.095)	4364281	160.000	150
	30 Hexachlorocyclopentadiene	237	17.560	17.553	(0.906)	1147024	160.000	170(A)
	31 2,4,6-Trichlorophenol	196	17.822	17.814	(0.919)	1274789	160.000	160(A)
	32 2,4,5-Trichlorophenol	196	17.897	17.884	(0.923)	1396509	160.000	160(A)
$	33 2-Fluorobiphenyl	172	18.004	17.996	(0.929)	4692755	160.000	160
	34 1,1'-Biphenyl	154	18.212	18.204	(0.939)	5333885	160.000	160
	35 2-Chloronaphthalene	162	18.244	18.236	(0.941)	4110777	160.000	160
	36 2-Nitroaniline	65	18.458	18.450	(0.952)	1319512	160.000	160(A)
	37 Dimethylphthalate	163	18.853	18.845	(0.972)	4771170	160.000	160
	38 2,6-Dinitrotoluene	165	18.976	18.963	(0.979)	1173625	160.000	160(A)
	39 Acenaphthylene	152	19.099	19.091	(0.985)	6172847	160.000	160
	40 3-Nitroaniline	138	19.312	19.294	(0.996)	1189252	160.000	160(A)
*	41 Acenaphthene-d10	164	19.387	19.384	(1.000)	908731	40.0000	
	42 Acenaphthene	153	19.462	19.454	(1.004)	4236805	160.000	160
	43 2,4-Dinitrophenol	184	19.526	19.513	(1.007)	678473	160.000	180(A)
	44 4-Nitrophenol	109	19.654	19.636	(1.014)	649667	160.000	160(A)
	45 2,4-Dinitrotoluene	165	19.798	19.785	(1.021)	1645095	160.000	160(A)
	46 Dibenzofuran	168	19.820	19.812	(1.022)	5854396	160.000	160
	47 Diethylphthalate	149	20.316	20.303	(1.048)	4722526	160.000	160
	48 4-Chlorophenyl-phenylether	204	20.535	20.527	(1.059)	2156330	160.000	160
	49 Fluorene	166	20.525	20.517	(1.059)	4877521	160.000	160
	50 4-Nitroaniline	138	20.578	20.549	(1.061)	1395446	160.000	160(A)
	51 4,6-Dinitro-2-methylphenol	198	20.637	20.618	(0.919)	912835	160.000	170(A)
	52 N-Nitrosodiphenylamine (1)	169	20.776	20.768	(0.925)	2123299	160.000	160
$	53 2,4,6-Tribromophenol	330	21.011	21.008	(0.936)	544155	160.000	160(A)
	54 4-Bromophenyl-phenylether	248	21.539	21.537	(0.959)	1167857	160.000	160
	55 Hexachlorobenzene	284	21.652	21.644	(0.964)	1190413	160.000	160
	56 Atrazine	200	21.892	21.879	(0.975)	774199	160.000	150
	57 Pentachlorophenol	266	22.058	22.050	(0.982)	820132	160.000	170(A)
*	58 Phenanthrene-d10	188	22.453	22.445	(1.000)	1469454	40.0000	
	59 Phenanthrene	178	22.506	22.498	(1.002)	6685321	160.000	150
	60 Anthracene	178	22.613	22.600	(1.007)	6717646	160.000	160
	61 Carbazole	167	22.950	22.936	(1.022)	6318952	160.000	150
	62 Di-n-butylphthalate	149	23.692	23.684	(1.055)	7571789	160.000	150
	63 Fluoranthene	202	24.958	24.945	(1.112)	6759258	160.000	150
	64 Pyrene	202	25.422	25.409	(0.911)	6984787	160.000	160
$	65 Terphenyl-d14	244	25.754	25.746	(0.923)	4989225	160.000	160
	66 Butylbenzylphthalate	149	26.774	26.766	(0.960)	3785370	160.000	160(A)
	67 3,3'-Dichlorobenzidine	252	27.831	27.823	(0.998)	1844562	160.000	160(A)
	68 bis(2-Ethylhexyl)phthalate	149	27.959	27.952	(1.002)	5307090	160.000	160
	69 Benzo(a)anthracene	228	27.879	27.866	(0.999)	6608980	160.000	160
*	70 Chrysene-d12	240	27.901	27.893	(1.000)	1315708	40.0000	
	71 Chrysene	228	27.959	27.941	(1.002)	6084466	160.000	160
	72 Di-n-octylphthalate	149	29.225	29.217	(0.946)	8220703	160.000	160
	73 Benzo(b)fluoranthene	252	30.026	30.008	(0.972)	6523535	160.000	160

Data File: S3A5218.D
Report Date: 08-Sep-2000 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	30.091	30.072	(0.974)	6701503	160.000	160
75 Benzo(a)pyrene	252	30.774	30.750	(0.996)	5902590	160.000	160
* 76 Perylene-d12	264	30.892	30.884	(1.000)	1192260	40.0000	*
77 Indeno(1,2,3-cd)pyrene	276	34.000	33.966	(1.101)	6397923	160.000	160
78 Dibenzo(a,h)anthracene	278	34.080	34.035	(1.103)	6303759	160.000	160(A)
79 Benzo(g,h,i)perylene	276	34.956	34.906	(1.132)	6185581	160.000	160

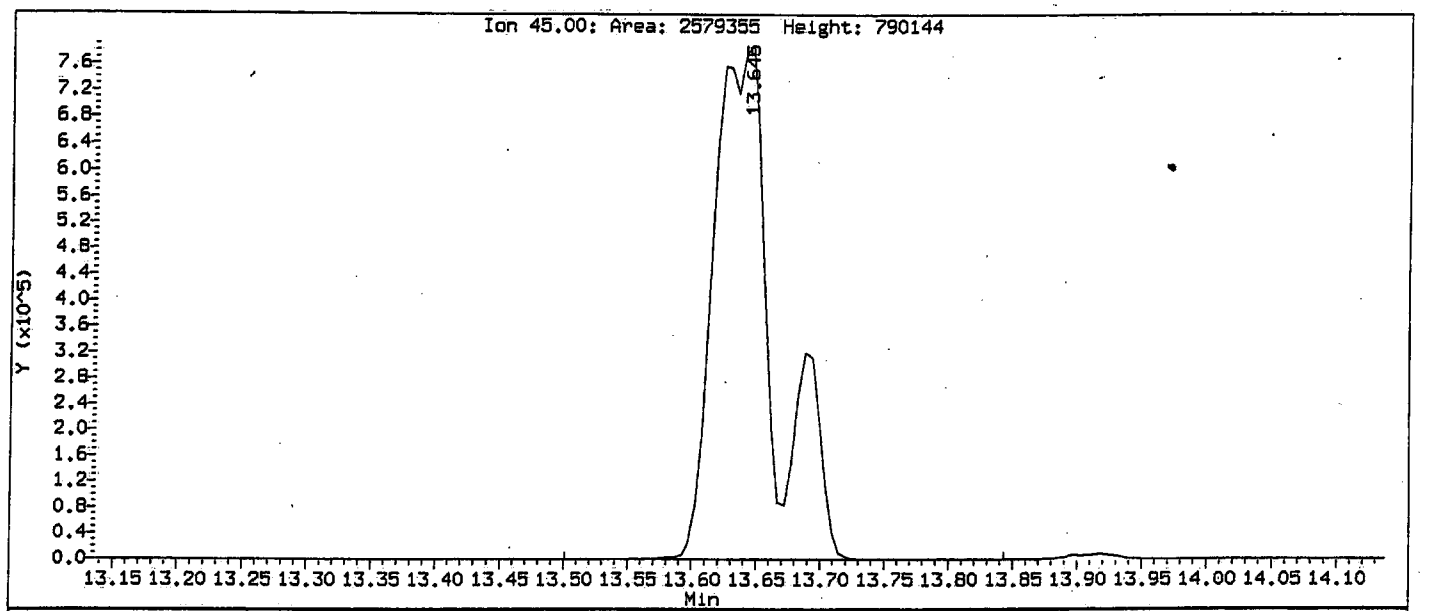
QC Flag Legend

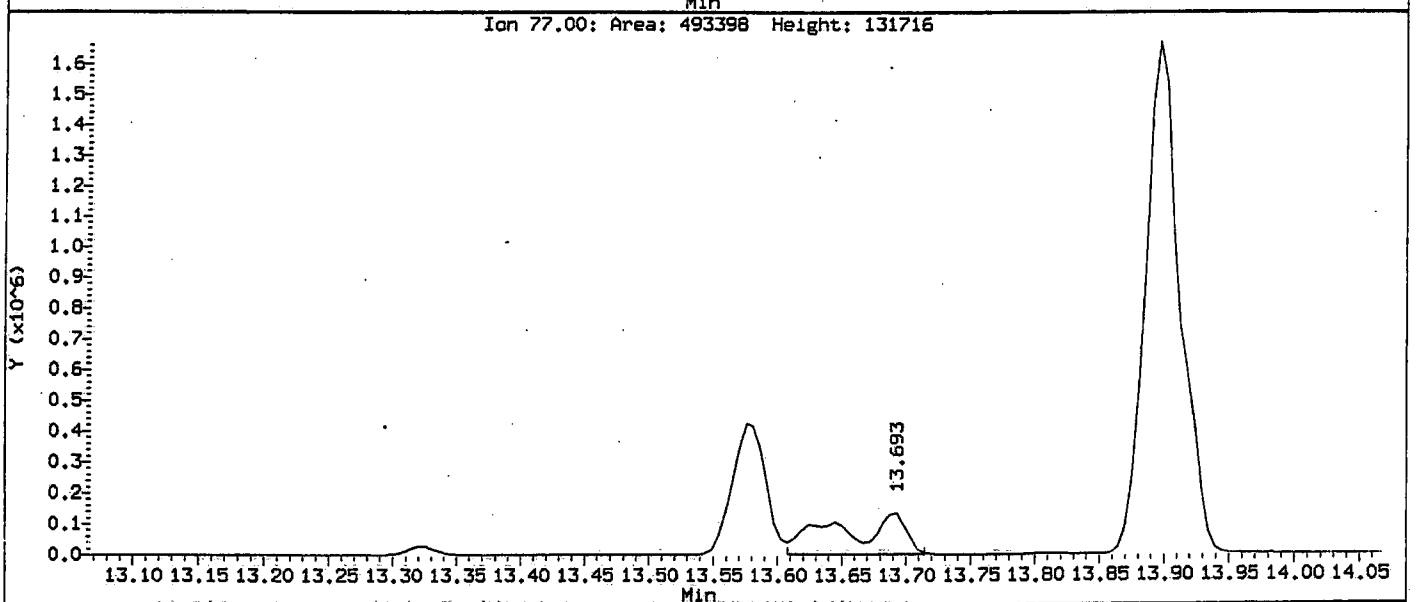
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

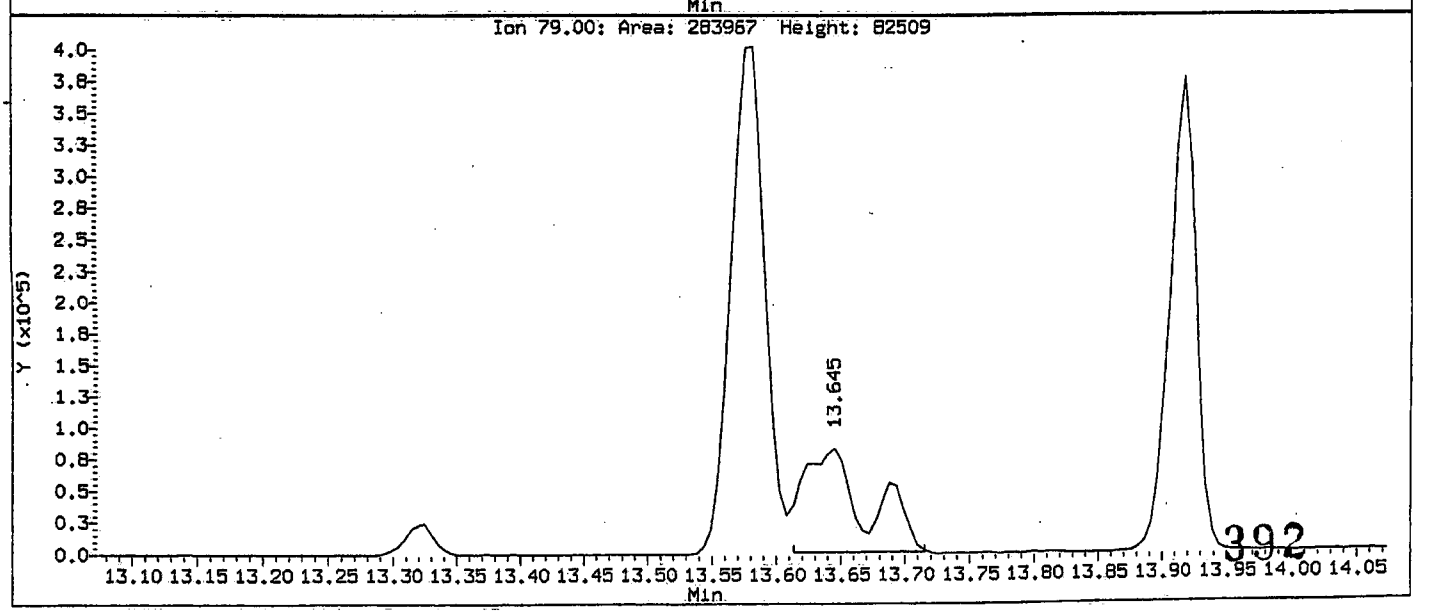
ac 09/12/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5218.D
Injection Date: 08-SEP-2000 12:58
Instrument: s3.i
Client Sample ID: SSTD1603L

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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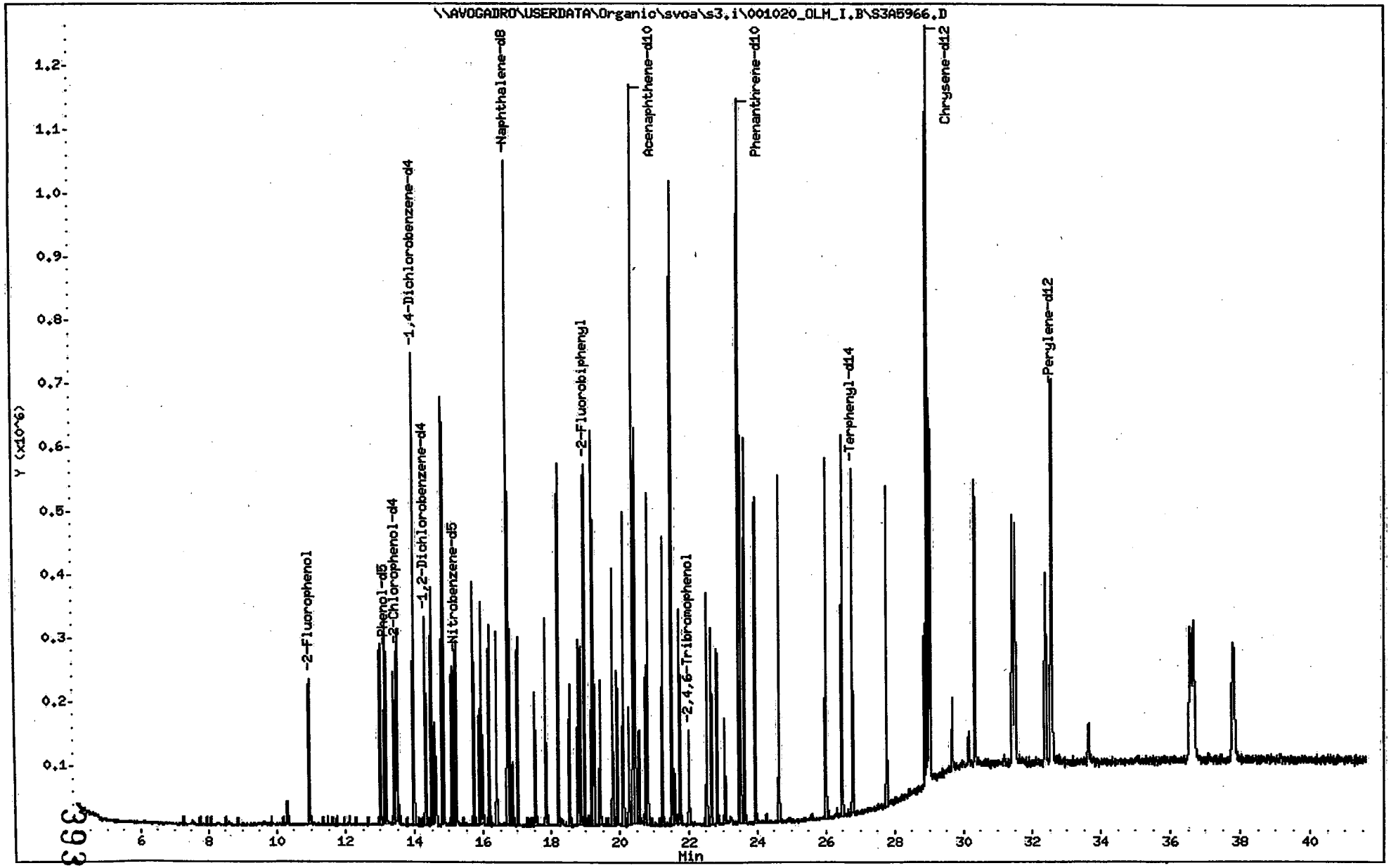
Date : 21-OCT-2000 02:38
Client ID: SSTD0203B
Sample Info: SS1019L,SSTD0203B

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5966.D
Report Date: 21-Oct-2000 14:26

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5966.D
Lab Smp Id: SS1019L Client Smp ID: SSTD0203B
Inj Date : 21-OCT-2000 02:38
Operator : QY Inst ID: s3.i
Smp Info : SS1019L,SSTD0203B
Misc Info : 1,1,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\s3_olm4_1.m
Meth Date : 21-Oct-2000 14:20 mtl Quant Type: ISTD
Cal Date : 21-OCT-2000 00:59 Cal File: S3A5965.D
Als bottle: 14 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	10.942	10.942	(0.782)	120530	20.0000	19
2 Benzaldehyde	77	13.015	13.020	(0.930)	104826	20.0000	19
$ 3 Phenol-d5	99	13.143	13.148	(0.939)	157077	20.0000	19
4 Phenol	94	13.170	13.175	(0.941)	167215	20.0000	19
5 bis(2-Chloroethyl)Ether	93	13.405	13.405	(0.958)	135757	20.0000	20
$ 6 2-Chlorophenol-d4	132	13.474	13.480	(0.963)	128686	20.0000	19
7 2-Chlorophenol	128	13.512	13.512	(0.966)	134793	20.0000	19
* 8 1,4-Dichlorobenzene-d4	152	13.992	13.992	(1.000)	204934	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.324	14.324	(1.024)	92579	20.0000	20
10 2-Methylphenol	108	14.500	14.500	(1.036)	122846	20.0000	19
11 2,2'-oxybis(1-Chloropropane)	45	14.580	14.585	(1.042)	211171	20.0000	20(M)
12 4-Methylphenol	108	14.821	14.820	(1.059)	127367	20.0000	19
13 N-Nitroso-di-n-propylamine	70	14.847	14.847	(1.061)	84062	20.0000	19
14 Acetophenone	105	14.847	14.853	(1.061)	187664	20.0000	20
15 Hexachloroethane	117	15.093	15.093	(1.079)	52098	20.0000	20
$ 16 Nitrobenzene-d5	82	15.173	15.173	(0.908)	135640	20.0000	19
17 Nitrobenzene	77	15.216	15.216	(0.910)	142768	20.0000	19
18 Isophorone	82	15.723	15.723	(0.941)	252017	20.0000	19
19 2-Nitrophenol	139	15.894	15.894	(0.951)	56724	20.0000	17
20 2,4-Dimethylphenol	107	15.958	15.958	(0.955)	115654	20.0000	20
21 bis(2-Chloroethoxy)methane	93	16.172	16.177	(0.968)	163392	20.0000	20
22 2,4-Dichlorophenol	162	16.391	16.391	(0.981)	96604	20.0000	18
* 23 Naphthalene-d8	136	16.712	16.712	(1.000)	775007	40.0000	
24 Naphthalene	128	16.754	16.760	(1.003)	415563	20.0000	20
25 4-Chloroaniline	127	16.851	16.850	(1.008)	45991	20.0000	18
26 Hexachlorobutadiene	225	17.011	17.011	(1.018)	53037	20.0000	20

KW 10/23/00

Data File: S3A5966.D
Report Date: 21-Oct-2000 14:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.518	17.529	(1.048)	41063	20.0000	17
	28 4-Chloro-3-Methylphenol	107	17.833	17.833	(1.067)	103774	20.0000	18
	29 2-Methylnaphthalene	142	18.207	18.207	(1.090)	266839	20.0000	20
	30 Hexachlorocyclopentadiene	237	18.533	18.533	(0.909)	49669	20.0000	18
	31 2,4,6-Trichlorophenol	196	18.779	18.779	(0.921)	63438	20.0000	18
	32 2,4,5-Trichlorophenol	196	18.848	18.848	(0.925)	68140	20.0000	18
$	33 2-Fluorobiphenyl	172	18.966	18.966	(0.930)	292892	20.0000	20
	34 1,1'-Biphenyl	154	19.180	19.180	(0.941)	333091	20.0000	20
	35 2-Chloronaphthalene	162	19.228	19.228	(0.943)	238114	20.0000	20
	36 2-Nitroaniline	65	19.415	19.420	(0.952)	64937	20.0000	17
	37 Dimethylphthalate	163	19.783	19.789	(0.970)	261946	20.0000	20
	38 2,6-Dinitrotoluene	165	19.917	19.917	(0.977)	47797	20.0000	17
	39 Acenaphthylene	152	20.093	20.098	(0.986)	378868	20.0000	20
	40 3-Nitroaniline	138	20.264	20.269	(0.994)	47321	20.0000	16
*	41 Acenaphthene-d10	164	20.387	20.387	(1.000)	435295	40.0000	
	42 Acenaphthene	153	20.456	20.456	(1.003)	254245	20.0000	20
	43 2,4-Dinitrophenol	184	20.478	20.483	(1.004)	10341	20.0000	11
	44 4-Nitrophenol	109	20.563	20.563	(1.009)	23161	20.0000	15
	45 2,4-Dinitrotoluene	165	20.750	20.756	(1.018)	61637	20.0000	16
	46 Dibenzofuran	168	20.814	20.814	(1.021)	353411	20.0000	20
	47 Diethylphthalate	149	21.252	21.258	(1.042)	256554	20.0000	19
	48 4-Chlorophenyl-phenylether	204	21.514	21.519	(1.055)	121156	20.0000	20
	49 Fluorene	166	21.530	21.530	(1.056)	288998	20.0000	20
	50 4-Nitroaniline	138	21.525	21.530	(1.056)	57432	20.0000	16
	51 4,6-Dinitro-2-methylphenol	198	21.594	21.600	(0.919)	18038	20.0000	11
	52 N-Nitrosodiphenylamine (1)	169	21.749	21.749	(0.926)	136770	20.0000	20
$	53 2,4,6-Tribromophenol	330	22.016	22.022	(0.937)	22435	20.0000	17
	54 4-Bromophenyl-phenylether	248	22.535	22.540	(0.960)	61296	20.0000	19
	55 Hexachlorobenzene	284	22.668	22.668	(0.965)	60151	20.0000	19
	56 Atrazine	200	22.834	22.839	(0.972)	45521	20.0000	19
	57 Pentachlorophenol	266	23.063	23.063	(0.982)	28011	20.0000	14
*	58 Phenanthrene-d10	188	23.485	23.485	(1.000)	702797	40.0000	
	59 Phenanthrene	178	23.534	23.533	(1.002)	402674	20.0000	20
	60 Anthracene	178	23.640	23.640	(1.007)	395075	20.0000	19
	61 Carbazole	167	23.956	23.956	(1.020)	365653	20.0000	20
	62 Di-n-butylphthalate	149	24.650	24.650	(1.050)	425137	20.0000	19
	63 Fluoranthene	202	26.007	26.007	(1.107)	398787	20.0000	20
	64 Pyrene	202	26.482	26.482	(0.914)	410748	20.0000	20
$	65 Terphenyl-d14	244	26.776	26.776	(0.924)	277206	20.0000	20
	66 Butylbenzylphthalate	149	27.770	27.770	(0.959)	178306	20.0000	18
	67 3,3'-Dichlorobenzidine	252	28.865	28.870	(0.996)	83774	20.0000	18
	68 bis(2-Ethylhexyl)phthalate	149	28.934	28.934	(0.999)	253675	20.0000	18
	69 Benzo(a)anthracene	228	28.945	28.950	(0.999)	354867	20.0000	20
*	70 Chrysene-d12	240	28.966	28.966	(1.000)	578062	40.0000	
	71 Chrysene	228	29.020	29.025	(1.002)	329952	20.0000	19
	72 Di-n-octylphthalate	149	30.339	30.339	(0.932)	386875	20.0000	17
	73 Benzo(b)fluoranthene	252	31.440	31.451	(0.965)	335443	20.0000	19

Data File: S3A5966.D
Report Date: 21-Oct-2000 14:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.520	31.525	(0.968)	339336	20.0000	19
75 Benzo(a)pyrene	252	32.396	32.401	(0.995)	292217	20.0000	19
* 76 Perylene-d12	264	32.567	32.578	(1.000)	515008	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	36.568	36.579	(1.123)	289980	20.0000	18
78 Dibenzo(a,h)anthracene	278	36.659	36.670	(1.126)	303626	20.0000	19(M)
79 Benzo(g,h,i)perylene	276	37.797	37.824	(1.161)	303845	20.0000	19(M)

KC 14/23/00

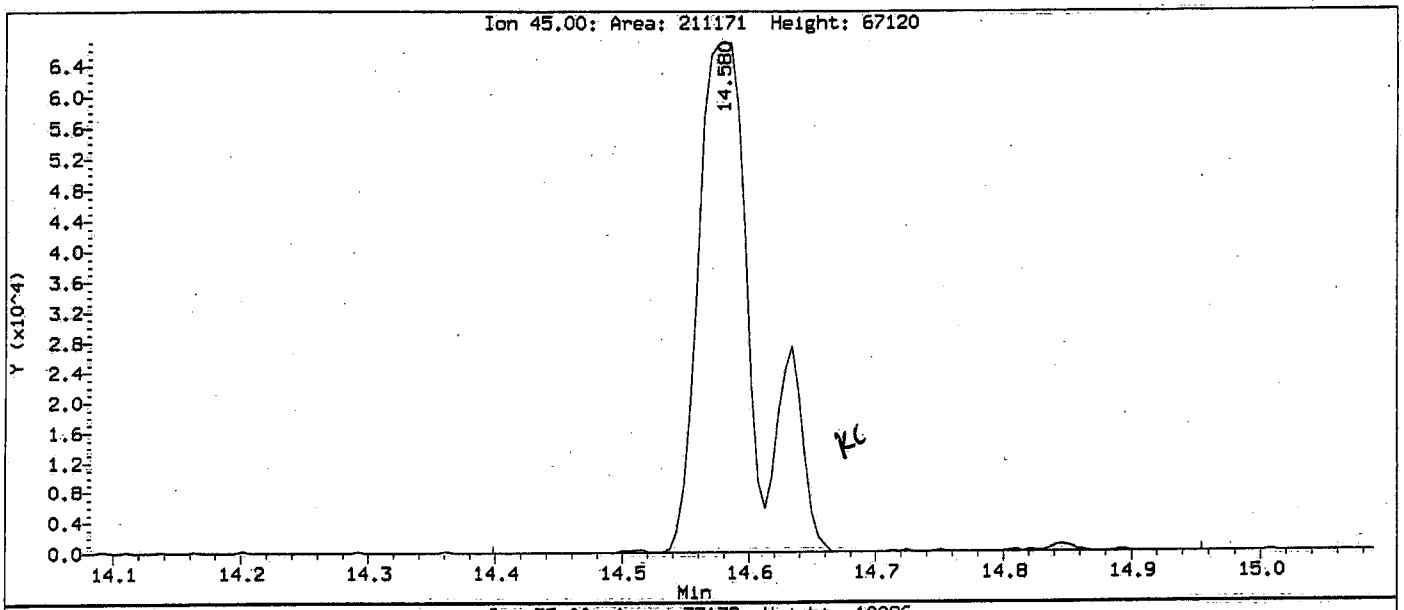
QC Flag Legend

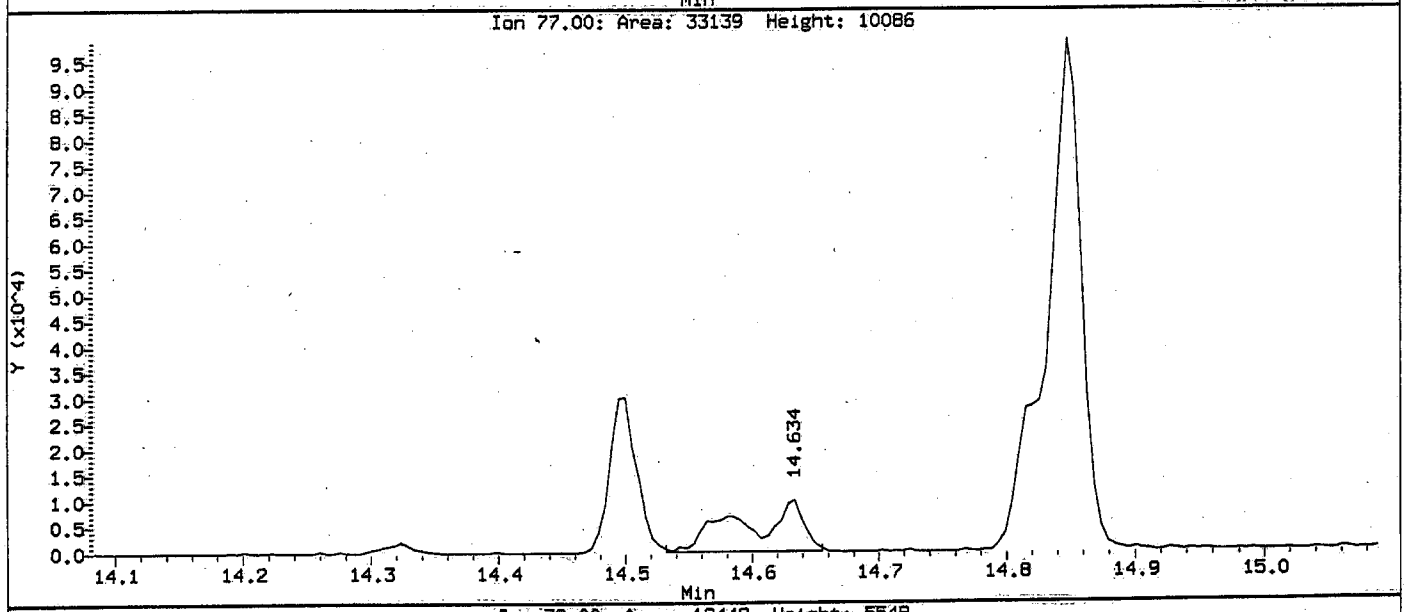
M - Compound response manually integrated.

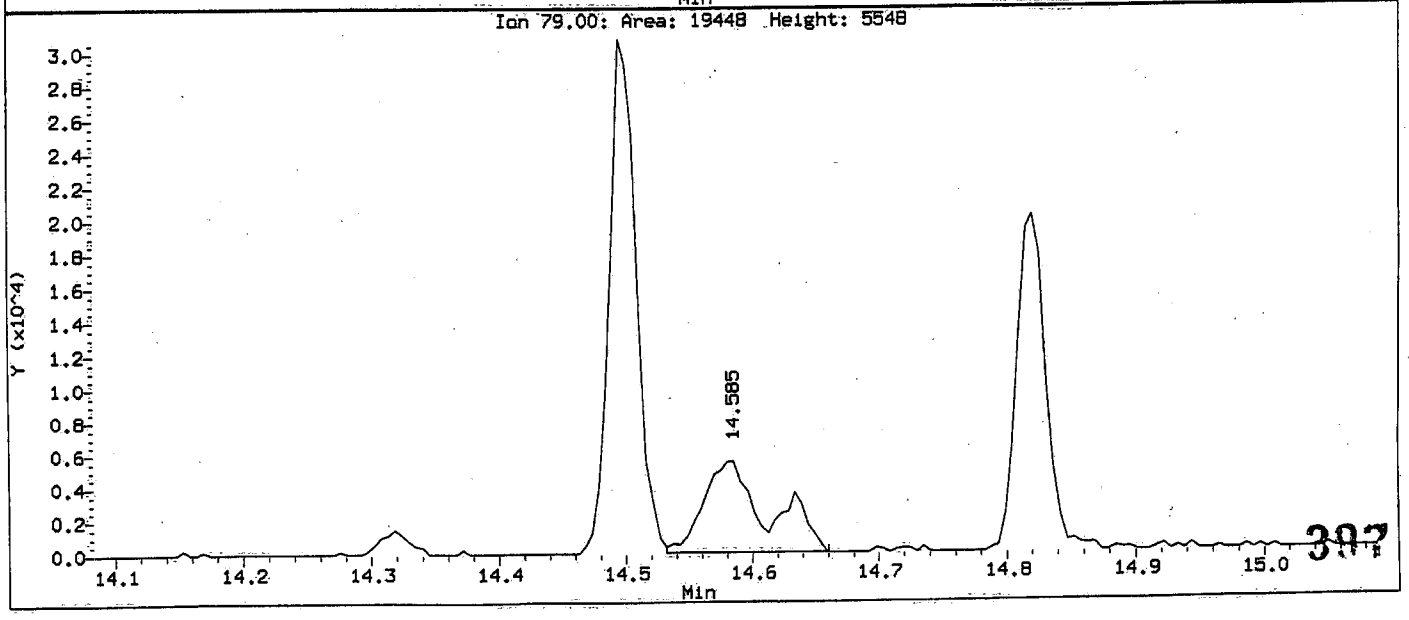
KC
14/23/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5966.D
Injection Date: 21-OCT-2000 02:38
Instrument: s3.i
Client Sample ID: SSTD0203B

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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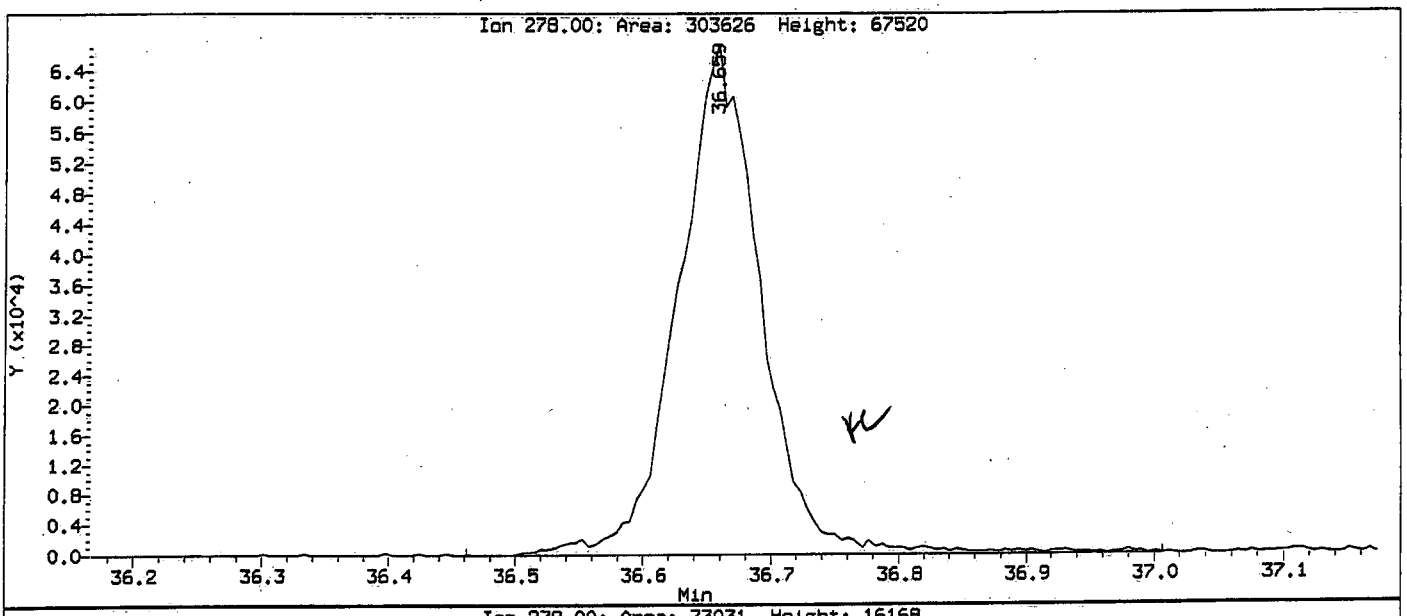
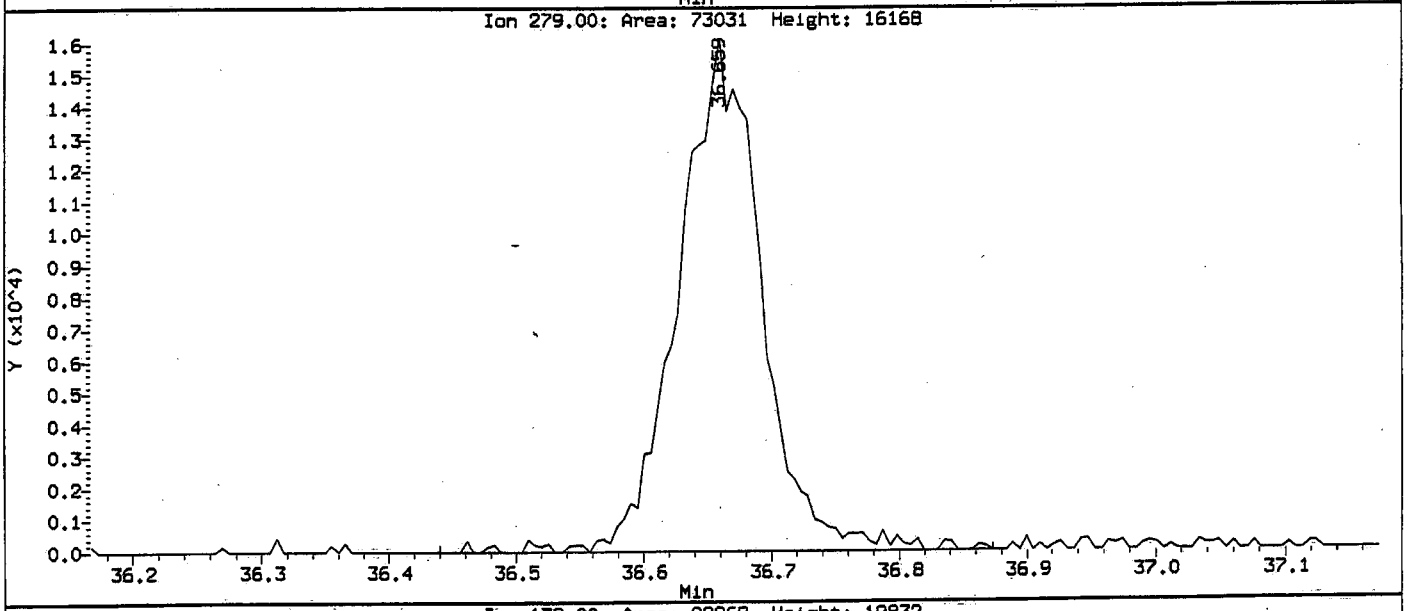
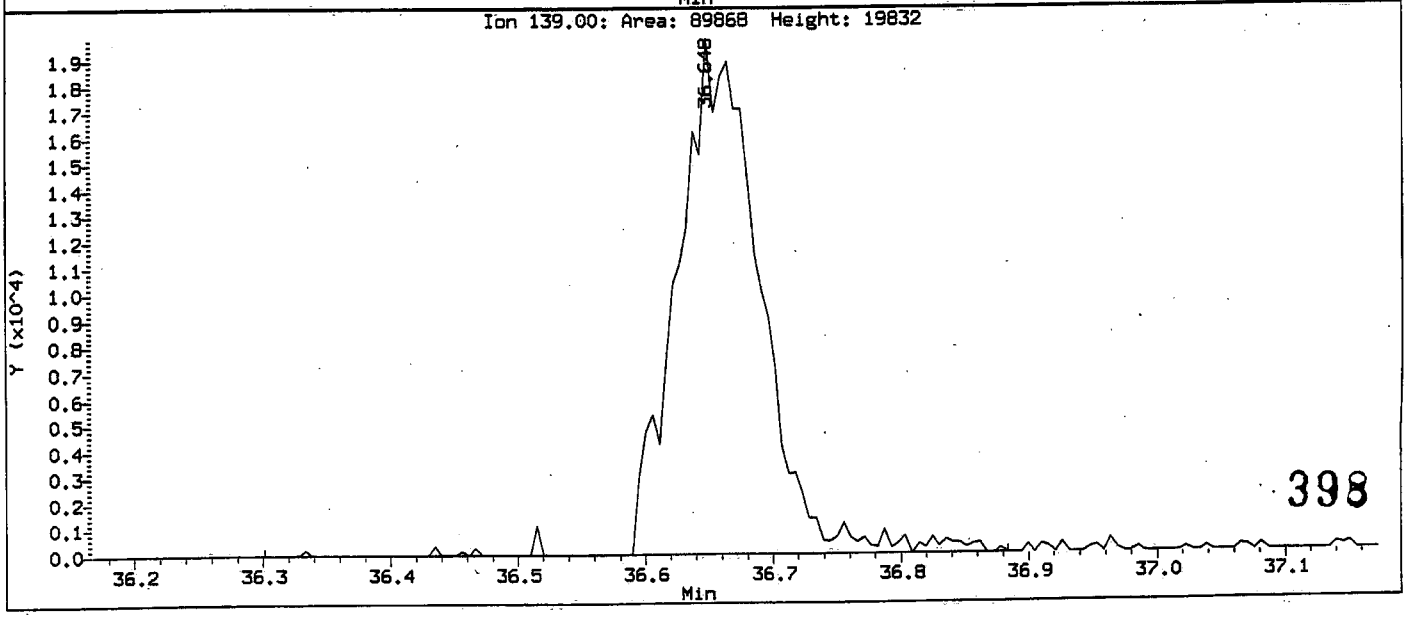
Injection Date: 21-OCT-2000 02:38
Instrument: s3.i
Client Sample ID: SSTD0203B

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3







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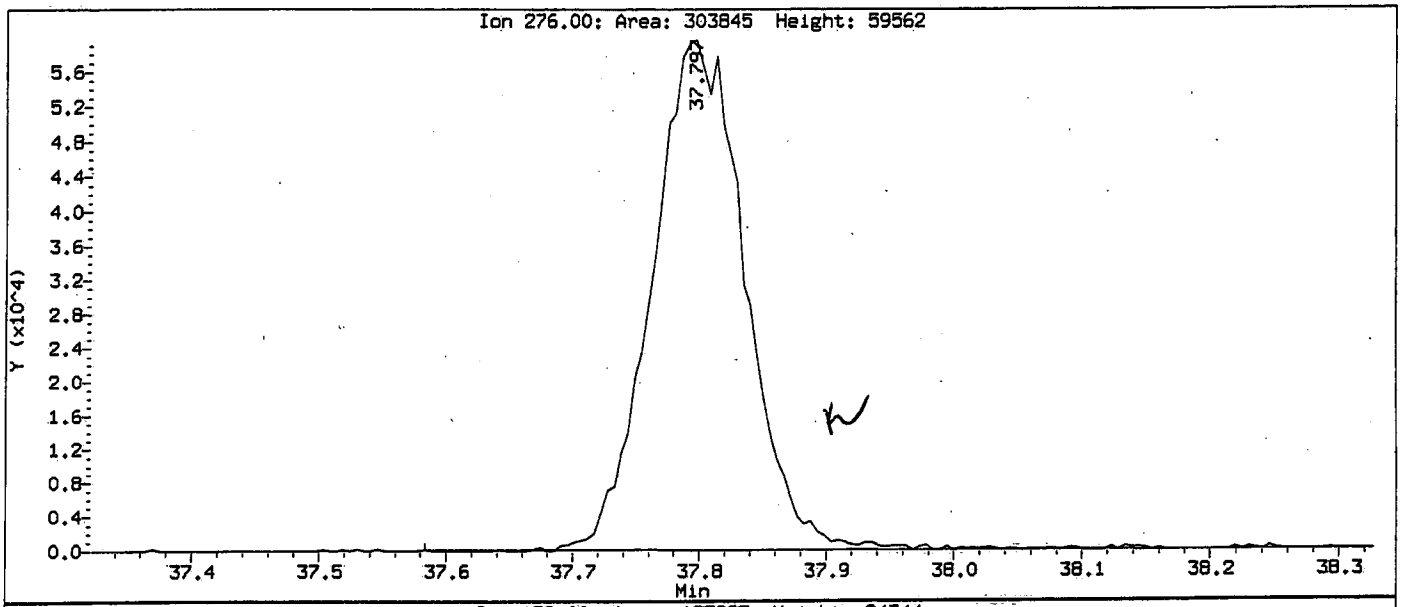
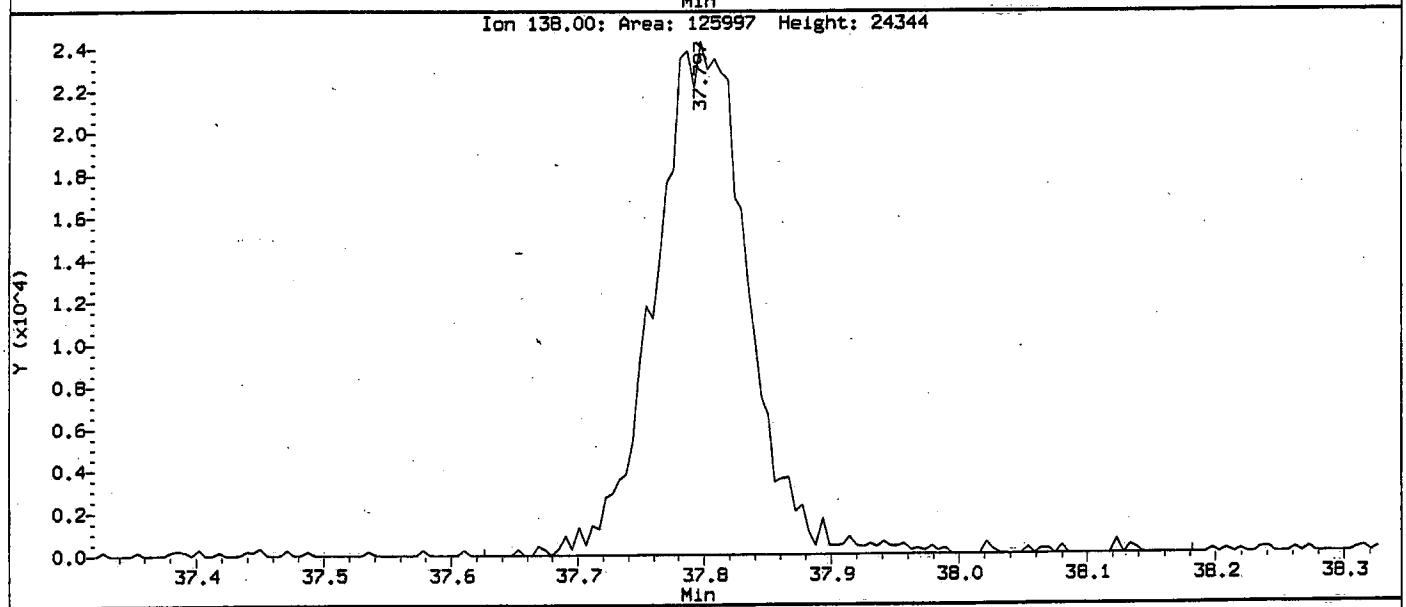
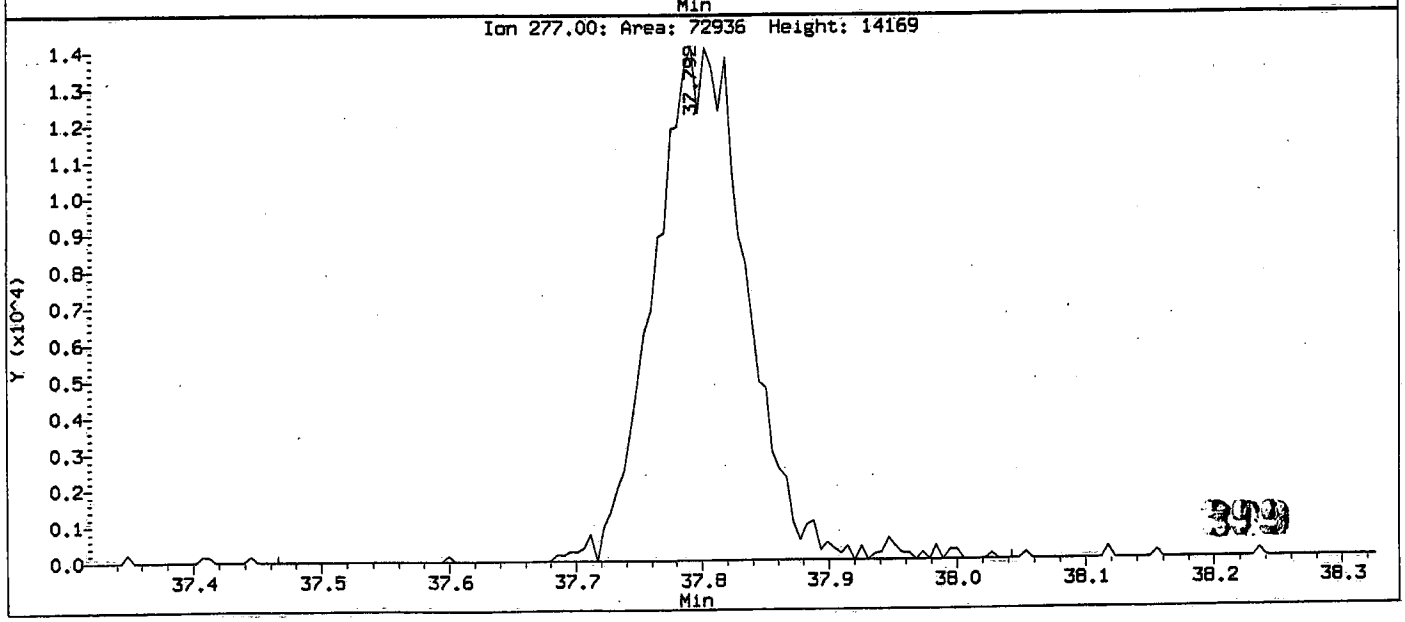
Injection Date: 21-OCT-2000 02:38
Instrument: s3.i
Client Sample ID: SSTD0203B

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2







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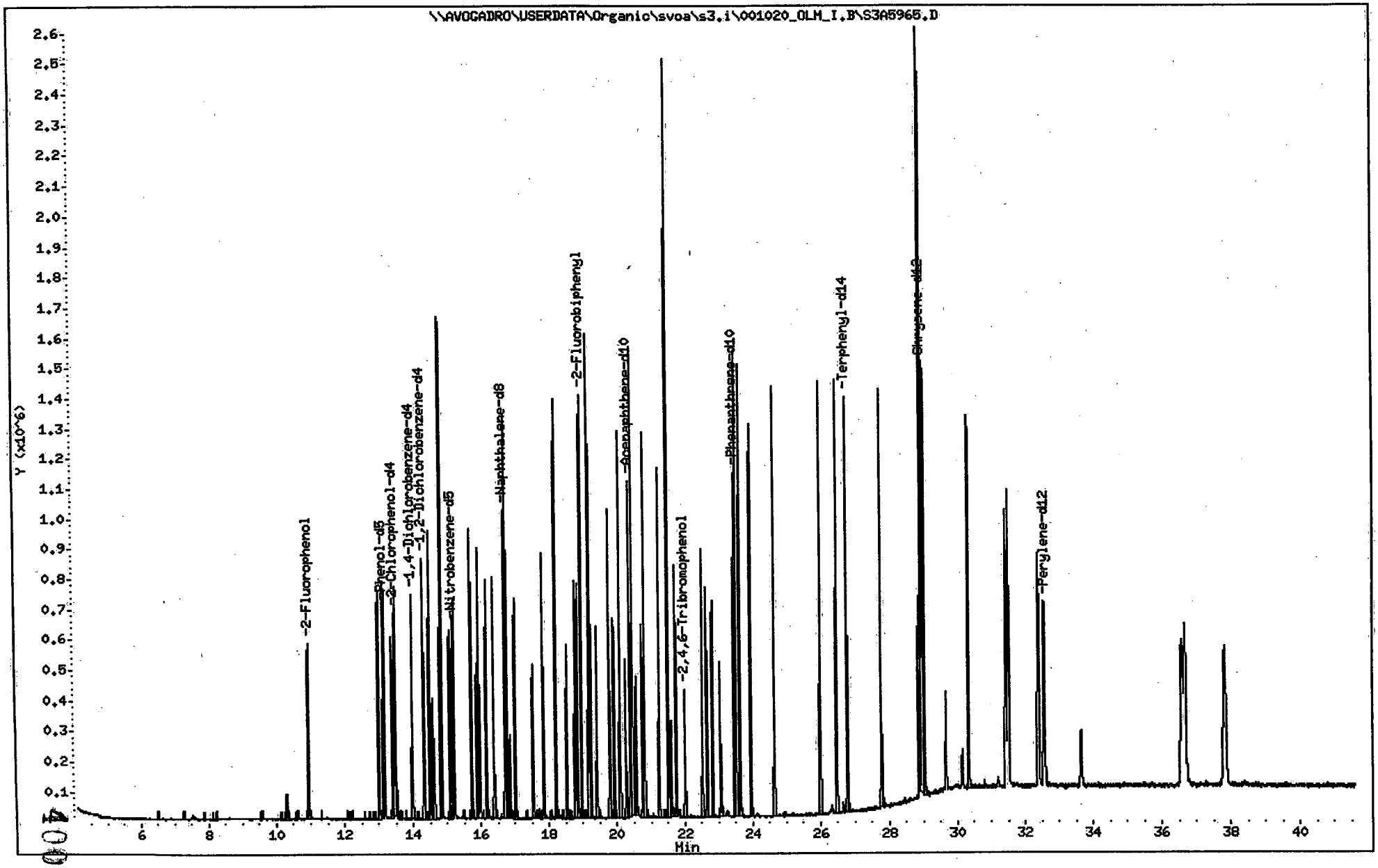
Date : 21-OCT-2000 00:59
Client ID: SSTD0503B
Sample Info: SS1019K,SSTD0503B

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5965.D
Report Date: 21-Oct-2000 14:19

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5965.D
Lab Smp Id: SS1019K Client Smp ID: SSTD0503B
Inj Date : 21-OCT-2000 00:59
Operator : QY Inst ID: s3.i
Smp Info : SS1019K,SSTD0503B
Misc Info : 1,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\s3_olm4_1.m
Meth Date : 21-Oct-2000 14:19 mtl Quant Type: ISTD
Cal Date : 21-OCT-2000 00:59 Cal File: S3A5965.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: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	10.942	10.942	(0.782)	314122	50.0000	50
2 Benzaldehyde	77	13.020	13.020	(0.930)	265128	50.0000	50
$ 3 Phenol-d5	99	13.148	13.148	(0.940)	405281	50.0000	50
4 Phenol	94	13.175	13.175	(0.942)	435879	50.0000	50
5 bis(2-Chloroethyl)Ether	93	13.405	13.405	(0.958)	344359	50.0000	50
$ 6 2-Chlorophenol-d4	132	13.480	13.480	(0.963)	329424	50.0000	50
7 2-Chlorophenol	128	13.512	13.512	(0.966)	342612	50.0000	50
* 8 1,4-Dichlorobenzene-d4	152	13.992	13.992	(1.000)	201795	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.324	14.324	(1.024)	235721	50.0000	50
10 2-Methylphenol	108	14.500	14.500	(1.036)	313067	50.0000	50
11 2,2'-oxybis(1-Chloropropane)	45	14.585	14.585	(1.042)	523836	50.0000	50(M)
12 4-Methylphenol	108	14.820	14.820	(1.059)	329769	50.0000	50
13 N-Nitroso-di-n-propylamine	70	14.847	14.847	(1.061)	211107	50.0000	50
14 Acetophenone	105	14.853	14.853	(1.061)	463317	50.0000	50
15 Hexachloroethane	117	15.093	15.093	(1.079)	131789	50.0000	50
$ 16 Nitrobenzene-d5	82	15.173	15.173	(0.908)	347669	50.0000	50
17 Nitrobenzene	77	15.216	15.216	(0.910)	372374	50.0000	50
18 Isophorone	82	15.723	15.723	(0.941)	651837	50.0000	50
19 2-Nitrophenol	139	15.894	15.894	(0.951)	158967	50.0000	50
20 2,4-Dimethylphenol	107	15.958	15.958	(0.955)	293691	50.0000	50
21 bis(2-Chloroethoxy)methane	93	16.177	16.177	(0.968)	413878	50.0000	50
22 2,4-Dichlorophenol	162	16.391	16.391	(0.981)	253540	50.0000	50
* 23 Naphthalene-d8	136	16.712	16.712	(1.000)	759218	40.0000	
24 Naphthalene	128	16.760	16.760	(1.003)	1038910	50.0000	50
25 4-Chloroaniline	127	16.850	16.850	(1.008)	124410	50.0000	50
26 Hexachlorobutadiene	225	17.011	17.011	(1.018)	124894	50.0000	50

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Data File: S3A5965.D
Report Date: 21-Oct-2000 14:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.529	17.529	(1.049)	116919	50.0000	50
	28 4-Chloro-3-Methylphenol	107	17.833	17.833	(1.067)	275602	50.0000	50
	29 2-Methylnaphthalene	142	18.207	18.207	(1.090)	674139	50.0000	50
	30 Hexachlorocyclopentadiene	237	18.533	18.533	(0.909)	131852	50.0000	50
	31 2,4,6-Trichlorophenol	196	18.779	18.779	(0.921)	167089	50.0000	50
	32 2,4,5-Trichlorophenol	196	18.848	18.848	(0.925)	181782	50.0000	50
$	33 2-Fluorobiphenyl	172	18.966	18.966	(0.930)	726543	50.0000	50
	34 1,1'-Biphenyl	154	19.180	19.180	(0.941)	831067	50.0000	50
	35 2-Chloronaphthalene	162	19.228	19.228	(0.943)	598629	50.0000	50
	36 2-Nitroaniline	65	✓ 19.420	19.420	(0.953)	182819	50.0000	50
	37 Dimethylphthalate	163	19.789	19.789	(0.971)	668098	50.0000	50
	38 2,6-Dinitrotoluene	165	19.917	19.917	(0.977)	137698	50.0000	50
	39 Acenaphthylene	152	20.098	20.098	(0.986)	955717	50.0000	50
	40 3-Nitroaniline	138	✓ 20.269	20.269	(0.994)	134641	50.0000	50
*	41 Acenaphthene-d10	164	20.387	20.387	(1.000)	429657	40.0000	
	42 Acenaphthene	153	20.456	20.456	(1.003)	630100	50.0000	50
	43 2,4-Dinitrophenol	184	20.483	20.483	(1.005)	36322	50.0000	50
	44 4-Nitrophenol	109	20.563	20.563	(1.009)	68442	50.0000	50
	45 2,4-Dinitrotoluene	165	20.756	20.756	(1.018)	182445	50.0000	50
	46 Dibenzofuran	168	20.814	20.814	(1.021)	887361	50.0000	50
	47 Diethylphthalate	149	21.258	21.258	(1.043)	667974	50.0000	50
	48 4-Chlorophenyl-phenylether	204	21.519	21.519	(1.056)	310661	50.0000	50
	49 Fluorene	166	21.530	21.530	(1.056)	714160	50.0000	50
	50 4-Nitroaniline	138	✓ 21.530	21.530	(1.056)	168841	50.0000	50
	51 4,6-Dinitro-2-methylphenol	198	21.600	21.600	(0.920)	67302	50.0000	50
	52 N-Nitrosodiphenylamine (1)	169	21.749	21.749	(0.926)	349928	50.0000	50
$	53 2,4,6-Tribromophenol	330	22.022	22.022	(0.938)	64457	50.0000	50
	54 4-Bromophenyl-phenylether	248	22.540	22.540	(0.960)	156005	50.0000	50
	55 Hexachlorobenzene	284	22.668	22.668	(0.965)	154225	50.0000	50
	56 Atrazine	200	22.839	22.839	(0.972)	119599	50.0000	50
	57 Pentachlorophenol	266	23.063	23.063	(0.982)	87999	50.0000	50
*	58 Phenanthrene-d10	188	23.485	23.485	(1.000)	691854	40.0000	
	59 Phenanthrene	178	23.533	23.533	(1.002)	1003444	50.0000	50
	60 Anthracene	178	23.640	23.640	(1.007)	1013170	50.0000	50
	61 Carbazole	167	23.956	23.956	(1.020)	926712	50.0000	50
	62 Di-n-butylphthalate	149	24.650	24.650	(1.050)	1124454	50.0000	50
	63 Fluoranthene	202	26.007	26.007	(1.107)	996897	50.0000	50
	64 Pyrene	202	26.482	26.482	(0.914)	1034435	50.0000	50
$	65 Terphenyl-d14	244	26.776	26.776	(0.924)	687928	50.0000	50
	66 Butylbenzylphthalate	149	27.770	27.770	(0.959)	481869	50.0000	50
	67 3,3'-Dichlorobenzidine	252	28.870	28.870	(0.997)	216046	50.0000	50
	68 bis(2-Ethylhexyl)phthalate	149	28.934	28.934	(0.999)	679748	50.0000	50
	69 Benzo(a)anthracene	228	28.950	28.950	(0.999)	895678	50.0000	50
*	70 Chrysene-d12	240	28.966	28.966	(1.000)	560567	40.0000	
	71 Chrysene	228	29.025	29.025	(1.002)	844599	50.0000	50
	72 Di-n-octylphthalate	149	30.339	30.339	(0.931)	1084634	50.0000	50
	73 Benzo(b)fluoranthene	252	31.451	31.451	(0.965)	853558	50.0000	50

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Report Date: 21-Oct-2000 14:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.525	31.525	(0.968)	860864	50.0000	50
75 Benzo(a)pyrene	252	32.401	32.401	(0.995)	767768	50.0000	50
* 76 Perylene-d12	264	32.578	32.578	(1.000)	505821	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	36.579	36.579	(1.123)	756511	50.0000	50
78 Dibenzo(a,h)anthracene	278	36.670	36.670	(1.126)	722595	50.0000	50
79 Benzo(g,h,i)perylene	276	37.824	37.824	(1.161)	783512	50.0000	50(M)

KC 10/23/00

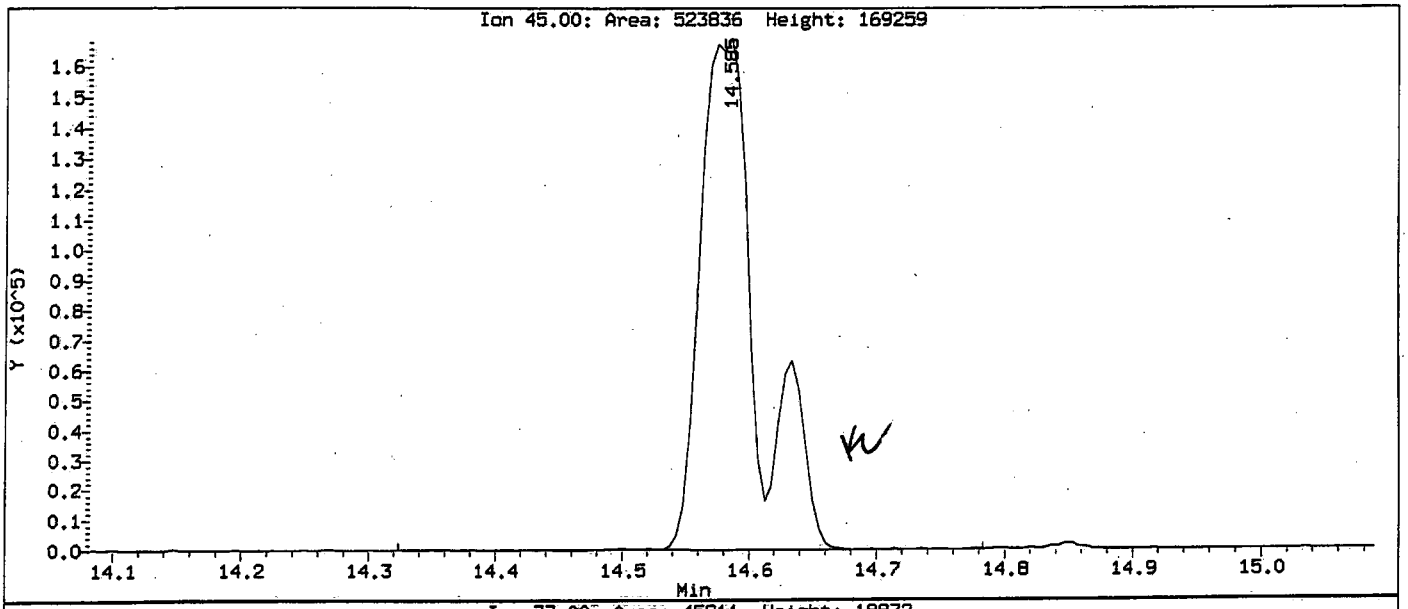
QC Flag Legend

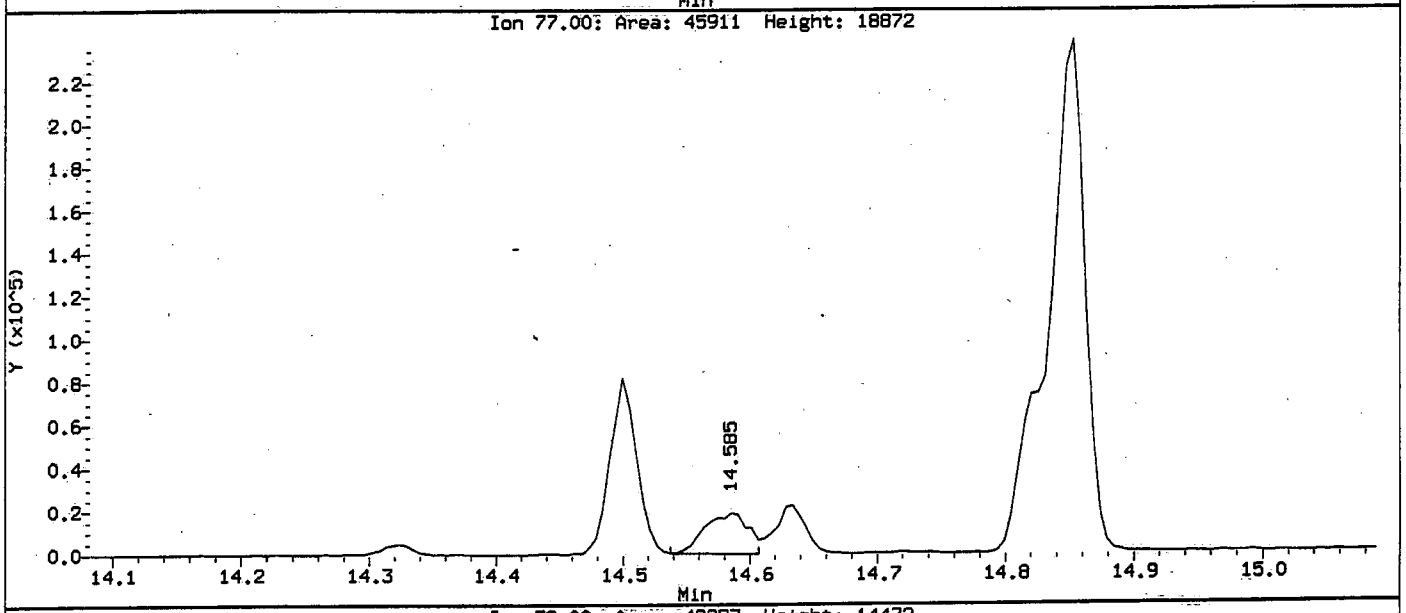
M - Compound response manually integrated.

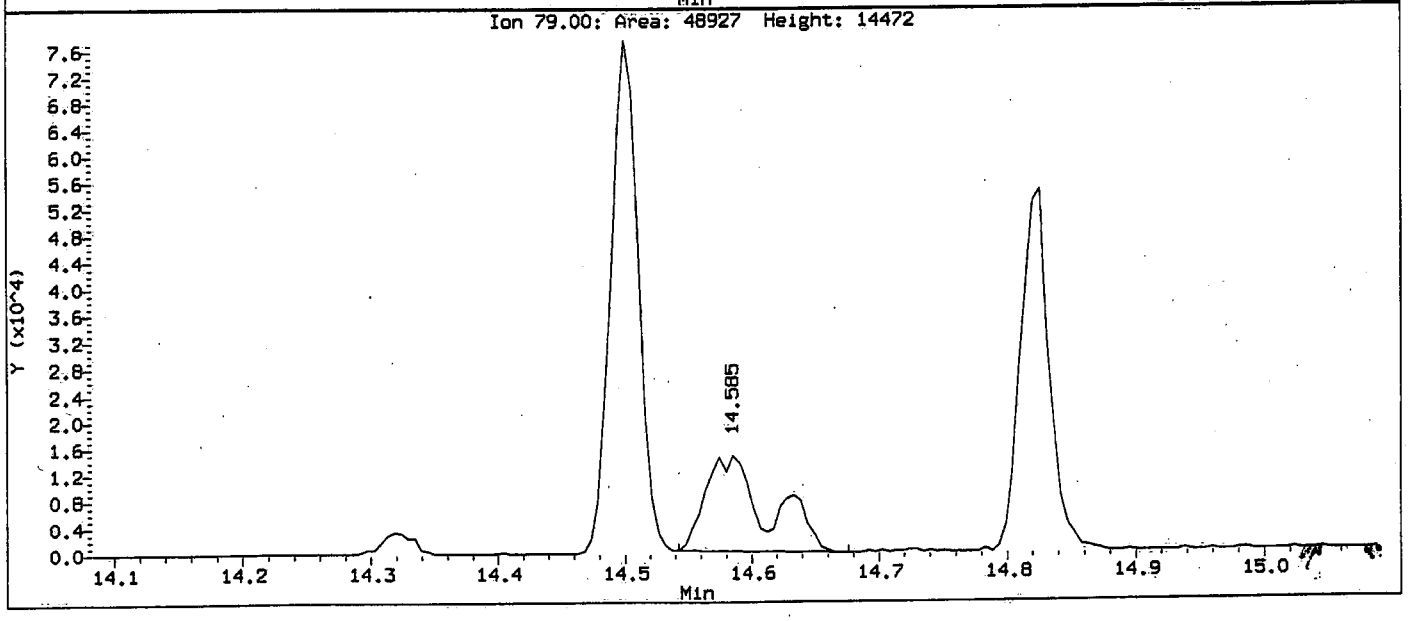
KC 10/23/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_DLM_I.B\S3A5965.D
Injection Date: 21-OCT-2000 00:59
Instrument: s3.i
Client Sample ID: SSTD0503B

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1

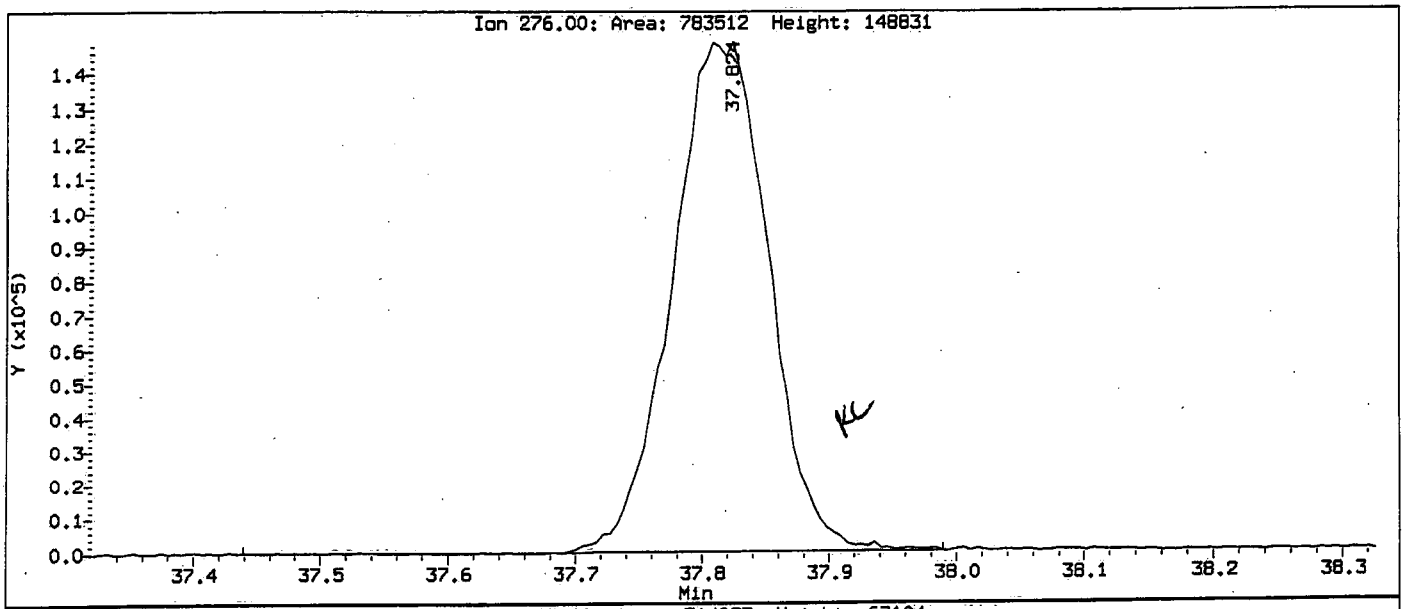


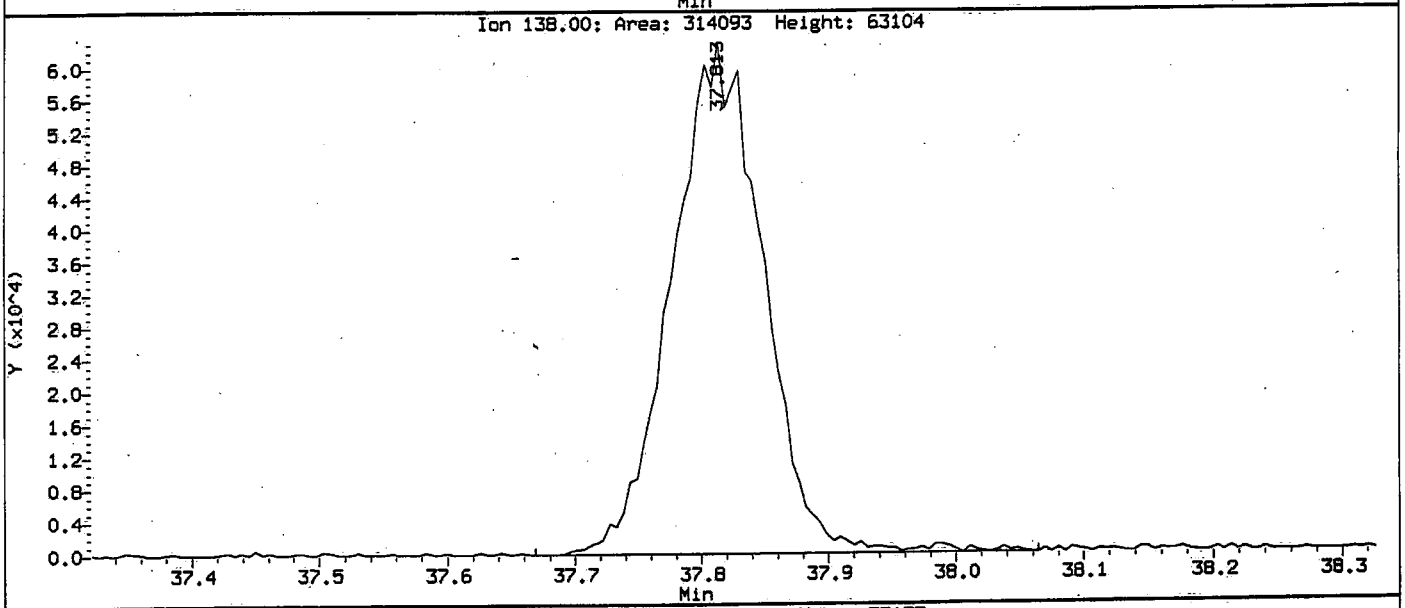


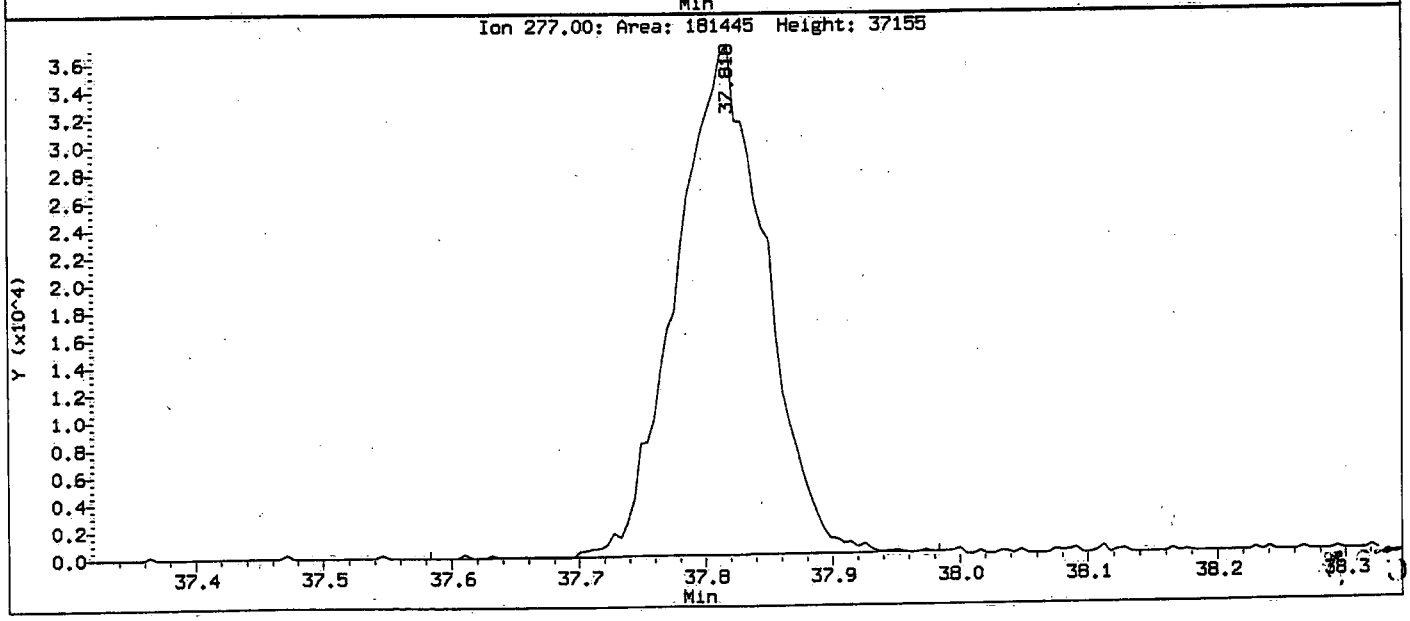


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5965.D
Injection Date: 21-OCT-2000 00:59
Instrument: s3.i
Client Sample ID: SSTD0503B

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2







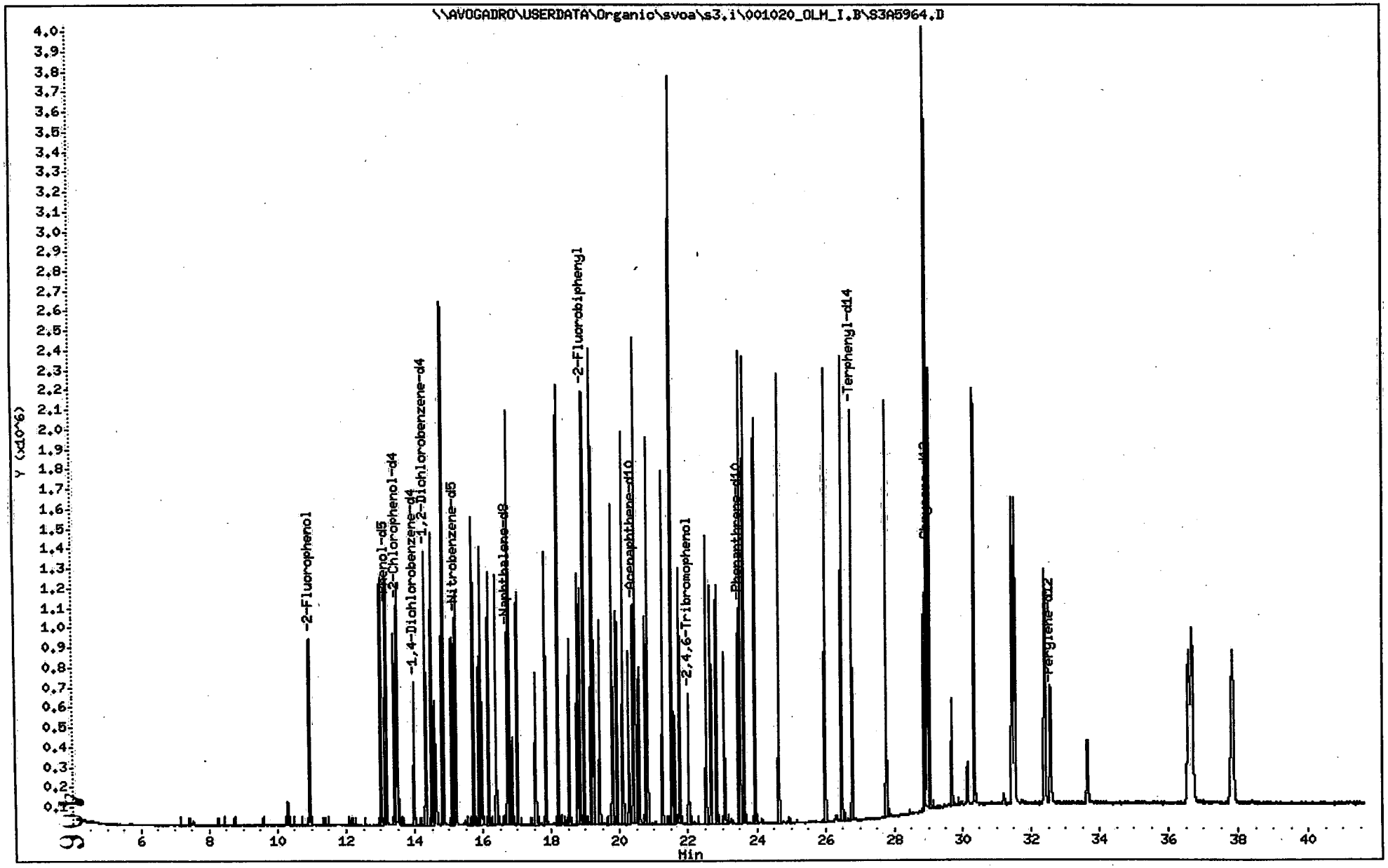
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5964.D
Date : 20-OCT-2000 23:20
Client ID: SSTD0803B
Sample Info: SS1019J,SSTD0803B

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5964.D
Report Date: 21-Oct-2000 14:24

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5964.D
Lab Smp Id: SS1019J Client Smp ID: SSTD0803B
Inj Date : 20-OCT-2000 23:20
Operator : QY Inst ID: s3.i
Smp Info : SS1019J,SSTD0803B
Misc Info : 1,3,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\s3_olm4_1.m
Meth Date : 21-Oct-2000 14:20 mtl Quant Type: ISTD
Cal Date : 21-OCT-2000 00:59 Cal File: S3A5965.D
Als bottle: 12 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	10.939	10.942	(0.782)	511067	80.0000	83
2 Benzaldehyde	77	13.023	13.020	(0.931)	453498	80.0000	85
$ 3 Phenol-d5	99	13.151	13.148	(0.940)	652028	80.0000	83
4 Phenol	94	13.183	13.175	(0.942)	698012	80.0000	83
5 bis(2-Chloroethyl)Ether	93	13.407	13.405	(0.958)	543548	80.0000	82
$ 6 2-Chlorophenol-d4	132	13.482	13.480	(0.964)	535684	80.0000	83
7 2-Chlorophenol	128	13.514	13.512	(0.966)	548104	80.0000	82
* 8 1,4-Dichlorobenzene-d4	152	13.989	13.992	(1.000)	195238	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.321	14.324	(1.024)	368660	80.0000	82
10 2-Methylphenol	108	14.502	14.500	(1.037)	499693	80.0000	82
11 2,2'-oxybis(1-Chloropropane)	45	14.588	14.585	(1.043)	835046	80.0000	85(M)
12 4-Methylphenol	108	14.823	14.820	(1.060)	524865	80.0000	83
13 N-Nitroso-di-n-propylamine	70	14.850	14.847	(1.061)	336533	80.0000	82
14 Acetophenone	105	14.855	14.853	(1.062)	740677	80.0000	82
15 Hexachloroethane	117	15.095	15.093	(1.079)	204395	80.0000	80
$ 16 Nitrobenzene-d5	82	15.181	15.173	(0.908)	559032	80.0000	83
17 Nitrobenzene	77	15.218	15.216	(0.911)	588522	80.0000	83
18 Isophorone	82	15.726	15.723	(0.941)	1035543	80.0000	83
19 2-Nitrophenol	139	15.897	15.894	(0.951)	260156	80.0000	84
20 2,4-Dimethylphenol	107	15.961	15.958	(0.955)	452824	80.0000	82
21 bis(2-Chloroethoxy)methane	93	16.180	16.177	(0.968)	658231	80.0000	83
22 2,4-Dichlorophenol	162	16.393	16.391	(0.981)	412614	80.0000	83
* 23 Naphthalene-d8	136	16.714	16.712	(1.000)	735668	40.0000	
24 Naphthalene	128	16.762	16.760	(1.003)	1651616	80.0000	83
25 4-Chloroaniline	127	16.853	16.850	(1.008)	204199	80.0000	85
26 Hexachlorobutadiene	225	17.013	17.011	(1.018)	202518	80.0000	82

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Data File: S3A5964.D
Report Date: 21-Oct-2000 14:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.542	17.529	(1.050)	189310	80.0000	84
	28 4-Chloro-3-Methylphenol	107	17.841	17.833	(1.067)	446150	80.0000	83
	29 2-Methylnaphthalene	142	18.210	18.207	(1.089)	1056493	80.0000	82
	30 Hexachlorocyclopentadiene	237	18.536	18.533	(0.909)	215264	80.0000	81
	31 2,4,6-Trichlorophenol	196	18.781	18.779	(0.921)	275063	80.0000	83
	32 2,4,5-Trichlorophenol	196	18.851	18.848	(0.925)	292259	80.0000	80
$	33 2-Fluorobiphenyl	172	18.968	18.966	(0.930)	1156851	80.0000	81
	34 1,1'-Biphenyl	154	19.182	19.180	(0.941)	1307459	80.0000	80
	35 2-Chloronaphthalene	162	19.230	19.228	(0.943)	940891	80.0000	80
	36 2-Nitroaniline	65	19.422	19.420	(0.953)	292786	80.0000	79
	37 Dimethylphthalate	163	19.791	19.789	(0.971)	1047221	80.0000	80
	38 2,6-Dinitrotoluene	165	19.919	19.917	(0.977)	223657	80.0000	82
	39 Acenaphthylene	152	20.101	20.098	(0.986)	1499593	80.0000	80
	40 3-Nitroaniline	138	20.266	20.269	(0.994)	226999	80.0000	79
*	41 Acenaphthene-d10	164	20.389	20.387	(1.000)	422991	40.0000	
	42 Acenaphthene	153	20.459	20.456	(1.003)	994872	80.0000	80
	43 2,4-Dinitrophenol	184	20.486	20.483	(1.005)	71663	80.0000	77
	44 4-Nitrophenol	109	20.566	20.563	(1.009)	116031	80.0000	78
	45 2,4-Dinitrotoluene	165	20.758	20.756	(1.018)	302383	80.0000	82
	46 Dibenzofuran	168	20.817	20.814	(1.021)	1390629	80.0000	81
	47 Diethylphthalate	149	21.260	21.258	(1.043)	1038114	80.0000	80
	48 4-Chlorophenyl-phenylether	204	21.517	21.519	(1.055)	488711	80.0000	81
	49 Fluorene	166	21.533	21.530	(1.056)	1116413	80.0000	80
	50 4-Nitroaniline	138	21.538	21.530	(1.056)	273887	80.0000	79
	51 4,6-Dinitro-2-methylphenol	198	21.602	21.600	(0.920)	126677	80.0000	79
	52 N-Nitrosodiphenylamine (1)	169	21.752	21.749	(0.926)	551263	80.0000	83
$	53 2,4,6-Tribromophenol	330	22.024	22.022	(0.938)	107013	80.0000	83
	54 4-Bromophenyl-phenylether	248	22.537	22.540	(0.960)	246292	80.0000	81
	55 Hexachlorobenzene	284	22.670	22.668	(0.965)	238375	80.0000	80
	56 Atrazine	200	22.841	22.839	(0.973)	190050	80.0000	81
	57 Pentachlorophenol	266	23.066	23.063	(0.982)	147308	80.0000	78
*	58 Phenanthrene-d10	188	23.482	23.485	(1.000)	677221	40.0000	
	59 Phenanthrene	178	23.536	23.533	(1.002)	1590468	80.0000	81
	60 Anthracene	178	23.643	23.640	(1.007)	1599072	80.0000	82
	61 Carbazole	167	23.958	23.956	(1.020)	1457933	80.0000	81
	62 Di-n-butylphthalate	149	24.652	24.650	(1.050)	1786569	80.0000	82
	63 Fluoranthene	202	26.009	26.007	(1.108)	1577522	80.0000	81
	64 Pyrene	202	26.485	26.482	(0.914)	1628297	80.0000	81
$	65 Terphenyl-d14	244	26.779	26.776	(0.924)	1096157	80.0000	81
	66 Butylbenzylphthalate	149	27.772	27.770	(0.959)	783085	80.0000	82
	67 3,3'-Dichlorobenzidine	252	28.873	28.870	(0.996)	357837	80.0000	82
	68 bis(2-Ethylhexyl)phthalate	149	28.931	28.934	(0.999)	1101152	80.0000	82
	69 Benzo(a)anthracene	228	28.947	28.950	(0.999)	1408961	80.0000	81
*	70 Chrysene-d12	240	28.974	28.966	(1.000)	553965	40.0000	
	71 Chrysene	228	29.022	29.025	(1.002)	1319227	80.0000	81
	72 Di-n-octylphthalate	149	30.342	30.339	(0.932)	1780952	80.0000	82
	73 Benzo(b)fluoranthene	252	31.453	31.451	(0.966)	1346262	80.0000	81

Data File: S3A5964.D
Report Date: 21-Oct-2000 14:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.533	31.525	(0.968)	1382395	80.0000	82
75 Benzo(a)pyrene	252	32.409	32.401	(0.995)	1221460	80.0000	82
* 76 Perylene-d12	264	32.569	32.578	(1.000)	491314	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	36.592	36.579	(1.123)	1249575	80.0000	83
78 Dibenzo(a,h)anthracene	278	36.683	36.670	(1.126)	1244538	80.0000	82
79 Benzo(g,h,i)perylene	276	37.831	37.824	(1.162)	1262832	80.0000	89

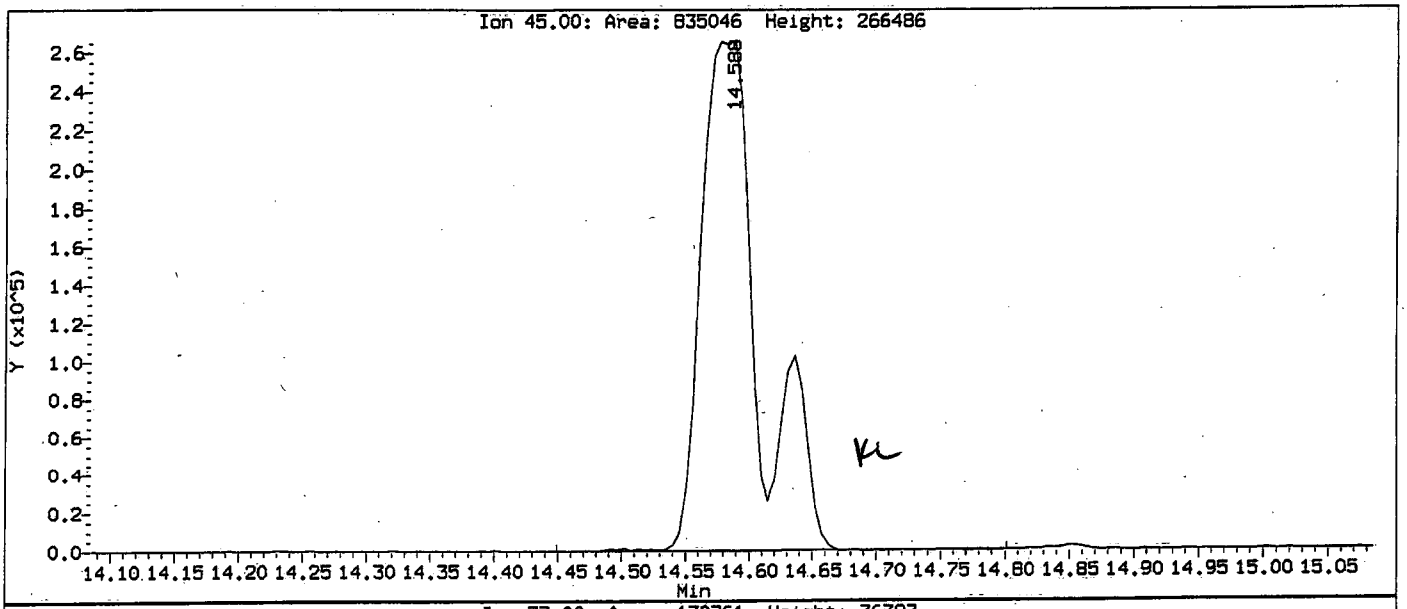
QC Flag Legend

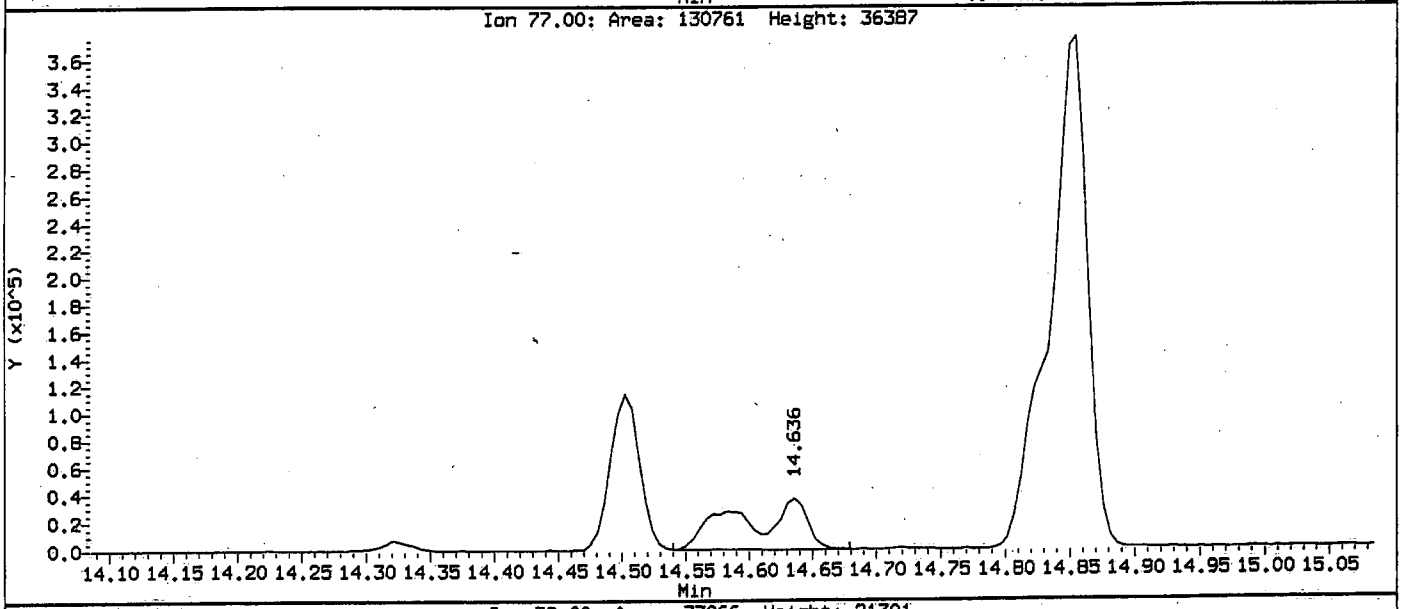
M - Compound response manually integrated.

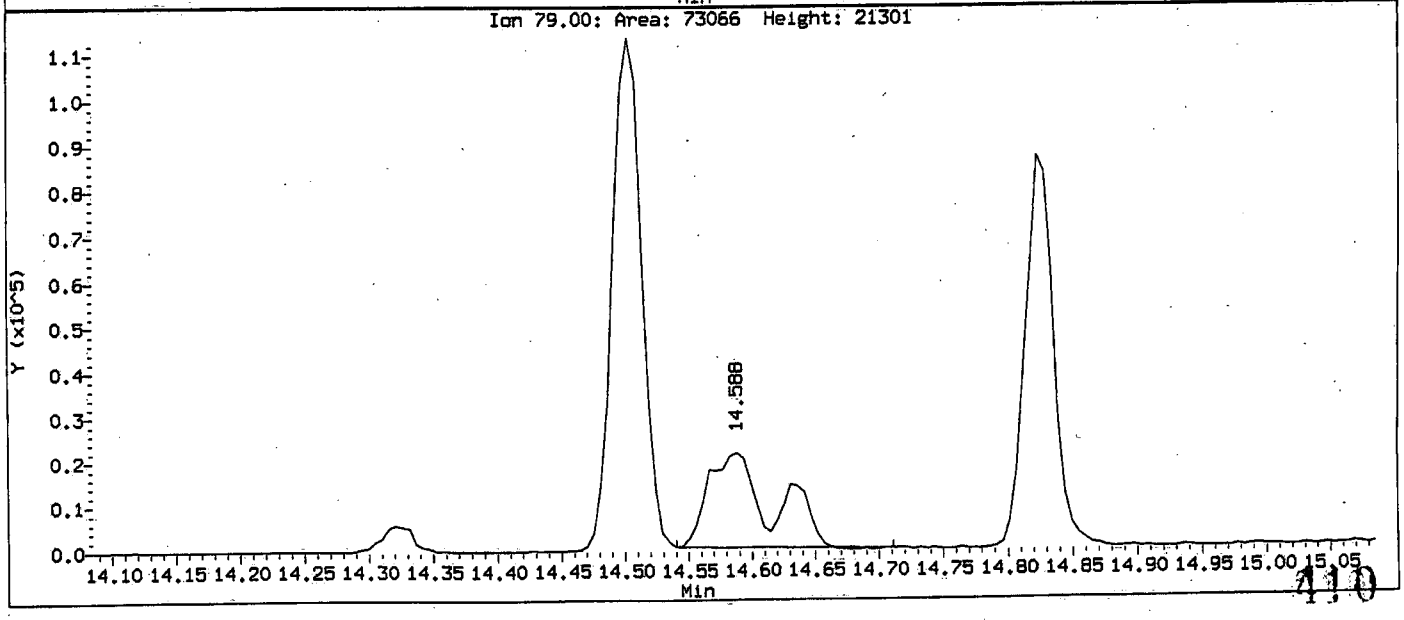
K
10/23/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5964.D
Injection Date: 20-OCT-2000 23:20
Instrument: s3.i
Client Sample ID: SSTD0803B

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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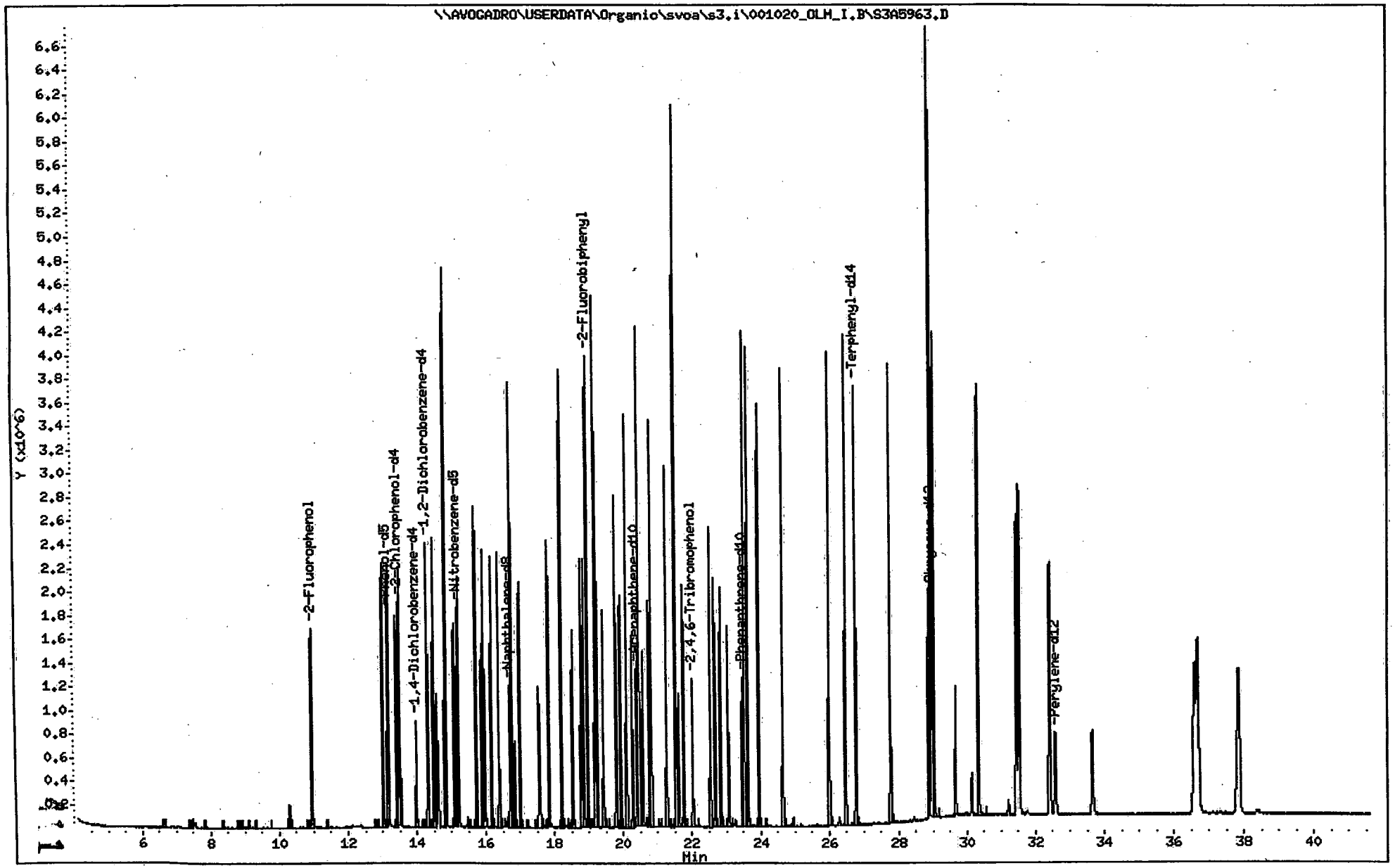
Date : 20-OCT-2000 21:40
Client ID: SSTD1203B
Sample Info: SS1019H,SSTD1203B

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5963.D
Report Date: 21-Oct-2000 14:23

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5963.D
Lab Smp Id: SS1019H Client Smp ID: SSTD1203B
Inj Date : 20-OCT-2000 21:40
Operator : QY Inst ID: s3.i
Smp Info : SS1019H,SSTD1203B
Misc Info : 1,4,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\s3_olm4_1.m
Meth Date : 21-Oct-2000 14:20 mtl Quant Type: ISTD
Cal Date : 21-OCT-2000 00:59 Cal File: S3A5965.D
Als bottle: 11 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1	2-Fluorophenol	112	10.945	10.942	(0.782)	911424	120.000	120
	2	Benzaldehyde	77	13.023	13.020	(0.931)	800270	120.000	120
$	3	Phenol-d5	99	13.157	13.148	(0.940)	1176167	120.000	120
	4	Phenol	94	13.189	13.175	(0.943)	1241725	120.000	120
	5	bis(2-Chloroethyl)Ether	93	13.413	13.405	(0.959)	961807	120.000	120
$	6	2-Chlorophenol-d4	132	13.483	13.480	(0.964)	953407	120.000	120
	7	2-Chlorophenol	128	13.520	13.512	(0.966)	981350	120.000	120
*	8	1,4-Dichlorobenzene-d4	152	13.990	13.992	(1.000)	241680	40.0000	
$	9	1,2-Dichlorobenzene-d4	152	14.321	14.324	(1.024)	662548	120.000	120
	10	2-Methylphenol	108	14.508	14.500	(1.037)	890939	120.000	120
	11	2,2'-oxybis(1-Chloropropane)	45	14.588	14.585	(1.043)	1497769	120.000	130(M)
	12	4-Methylphenol	108	14.829	14.820	(1.060)	941378	120.000	120
	13	N-Nitroso-di-n-propylamine	70	14.855	14.847	(1.062)	612390	120.000	120
	14	Acetophenone	105	14.855	14.853	(1.062)	1344129	120.000	120
	15	Hexachloroethane	117	15.096	15.093	(1.079)	376826	120.000	120
$	16	Nitrobenzene-d5	82	15.181	15.173	(0.908)	1016801	120.000	120
	17	Nitrobenzene	77	15.224	15.216	(0.911)	1049562	120.000	120
	18	Isophorone	82	15.732	15.723	(0.941)	1872915	120.000	120
	19	2-Nitrophenol	139	15.897	15.894	(0.951)	476515	120.000	120
	20	2,4-Dimethylphenol	107	15.967	15.958	(0.955)	791483	120.000	110
	21	bis(2-Chloroethoxy)methane	93	16.180	16.177	(0.968)	1168836	120.000	120
	22	2,4-Dichlorophenol	162	16.394	16.391	(0.981)	749906	120.000	120
*	23	Naphthalene-d8	136	16.715	16.712	(1.000)	917590	40.0000	
	24	Naphthalene	128	16.763	16.760	(1.003)	2920606	120.000	120
	25	4-Chloroaniline	127	16.853	16.850	(1.008)	340091	120.000	110
	26	Hexachlorobutadiene	225	17.014	17.011	(1.018)	358896	120.000	120

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Data File: S3A5963.D
Report Date: 21-Oct-2000 14:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.564	17.529	(1.051)	347466	120.000	120
	28 4-Chloro-3-Methylphenol	107	17.847	17.833	(1.068)	810205	120.000	120
	29 2-Methylnaphthalene	142	18.210	18.207	(1.089)	1889781	120.000	120
	30 Hexachlorocyclopentadiene	237	18.536	18.533	(0.909)	401973	120.000	130
	31 2,4,6-Trichlorophenol	196	18.782	18.779	(0.921)	490293	120.000	120
	32 2,4,5-Trichlorophenol	196	18.857	18.848	(0.925)	532002	120.000	120
$	33 2-Fluorobiphenyl	172	18.969	18.966	(0.930)	2062395	120.000	120
	34 1,1'-Biphenyl	154	19.183	19.180	(0.941)	2332707	120.000	120
	35 2-Chloronaphthalene	162	19.236	19.228	(0.943)	1680194	120.000	120
	36 2-Nitroaniline	65	19.423	19.420	(0.953)	547274	120.000	120
	37 Dimethylphthalate	163	19.797	19.789	(0.971)	1887747	120.000	120
	38 2,6-Dinitrotoluene	165	19.925	19.917	(0.977)	418956	120.000	130
	39 Acenaphthylene	152	20.101	20.098	(0.986)	2681708	120.000	120
	40 3-Nitroaniline	138	20.272	20.269	(0.994)	431084	120.000	120
*	41 Acenaphthene-d10	164	20.390	20.387	(1.000)	511823	40.0000	
	42 Acenaphthene	153	20.465	20.456	(1.004)	1778849	120.000	120
	43 2,4-Dinitrophenol	184	20.486	20.483	(1.005)	150234	120.000	130
	44 4-Nitrophenol	109	20.572	20.563	(1.009)	223931	120.000	120
	45 2,4-Dinitrotoluene	165	20.759	20.756	(1.018)	568231	120.000	130
	46 Dibenzofuran	168	20.823	20.814	(1.021)	2459140	120.000	120
	47 Diethylphthalate	149	21.261	21.258	(1.043)	1881744	120.000	120
	48 4-Chlorophenyl-phenylether	204	21.522	21.519	(1.056)	865652	120.000	120
	49 Fluorene	166	21.533	21.530	(1.056)	1969625	120.000	120
	50 4-Nitroaniline	138	21.549	21.530	(1.057)	511516	120.000	120
	51 4,6-Dinitro-2-methylphenol	198	21.603	21.600	(0.920)	252303	120.000	130
	52 N-Nitrosodiphenylamine (1)	169	21.752	21.749	(0.926)	894339	120.000	110
$	53 2,4,6-Tribromophenol	330	22.025	22.022	(0.938)	199512	120.000	130
	54 4-Bromophenyl-phenylether	248	22.537	22.540	(0.960)	444197	120.000	120
	55 Hexachlorobenzene	284	22.671	22.668	(0.965)	439468	120.000	120
	56 Atrazine	200	22.847	22.839	(0.973)	344738	120.000	120
	57 Pentachlorophenol	266	23.066	23.063	(0.982)	279501	120.000	120
*	58 Phenanthrene-d10	188	23.488	23.485	(1.000)	818325	40.0000	
	59 Phenanthrene	178	23.542	23.533	(1.002)	2823118	120.000	120
	60 Anthracene	178	23.649	23.640	(1.007)	2796614	120.000	120
	61 Carbazole	167	23.964	23.956	(1.020)	2584024	120.000	120
	62 Di-n-butylphthalate	149	24.653	24.650	(1.050)	3208527	120.000	120
	63 Fluoranthene	202	26.010	26.007	(1.107)	2802087	120.000	120
	64 Pyrene	202	26.491	26.482	(0.914)	2848221	120.000	120
$	65 Terphenyl-d14	244	26.779	26.776	(0.924)	1934914	120.000	120
	66 Butylbenzylphthalate	149	27.773	27.770	(0.959)	1405355	120.000	120
	67 3,3'-Dichlorobenzidine	252	28.873	28.870	(0.996)	630843	120.000	120
	68 bis(2-Ethylhexyl)phthalate	149	28.937	28.934	(0.999)	1990563	120.000	120
	69 Benzo(a)anthracene	228	28.953	28.950	(0.999)	2469056	120.000	120
*	70 Chrysene-d12	240	28.975	28.966	(1.000)	663217	40.0000	
	71 Chrysene	228	29.028	29.025	(1.002)	2340299	120.000	120
	72 Di-n-octylphthalate	149	30.348	30.339	(1.000)	3246122	120.000	130
	73 Benzo(b)fluoranthene	252	31.464	31.451	(1.000)	2368683	120.000	120

Data File: S3A5963.D
Report Date: 21-Oct-2000 14:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
74 Benzo(k)fluoranthene	252	31.539	31.525	(1.000)	2392425	120.000	120	
75 Benzo(a)pyrene	252	32.420	32.401	(1.000)	2126173	120.000	120	
* 76 Perylene-d12	264	32.581	32.578	(1.000)	576452	40.0000		(M)
77 Indeno(1,2,3-cd)pyrene	276	36.609	36.579	(1.000)	2175744	120.000	120	
78 Dibenzo(a,h)anthracene	278	36.705	36.670	(1.000)	2179575	120.000	120	
79 Benzo(g,h,i)perylene	276	37.853	37.824	(1.000)	2189828	120.000	130	

KL 10/23/00

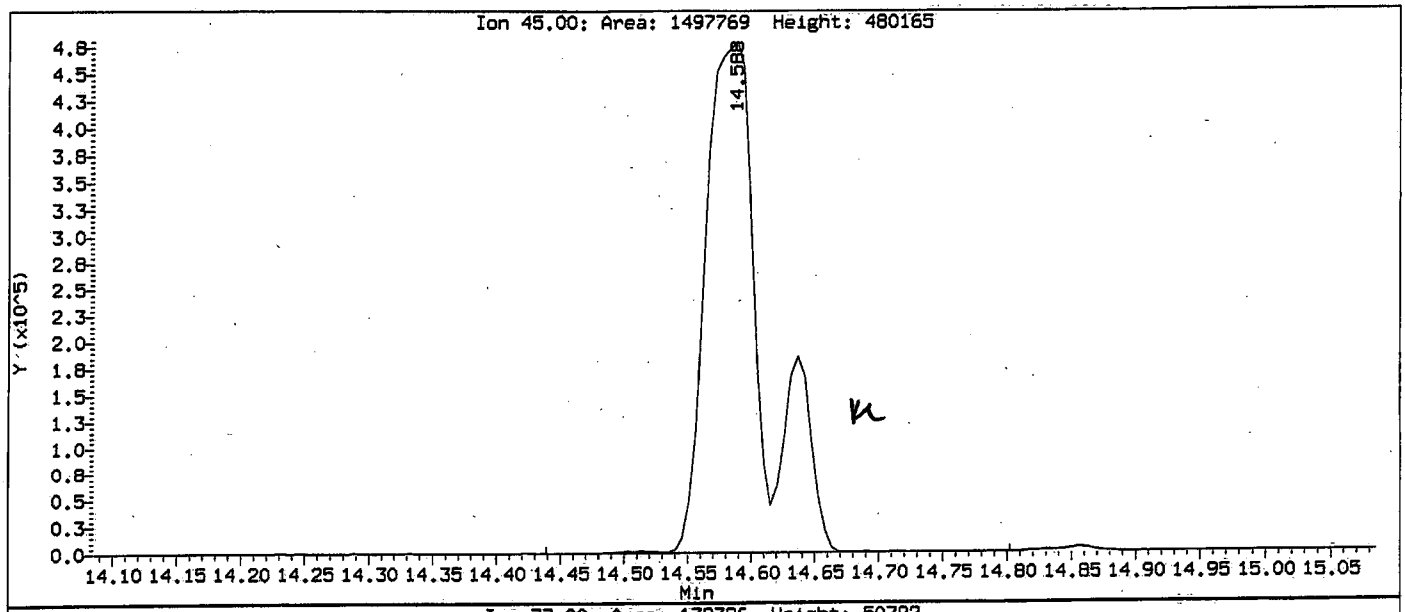
QC Flag Legend

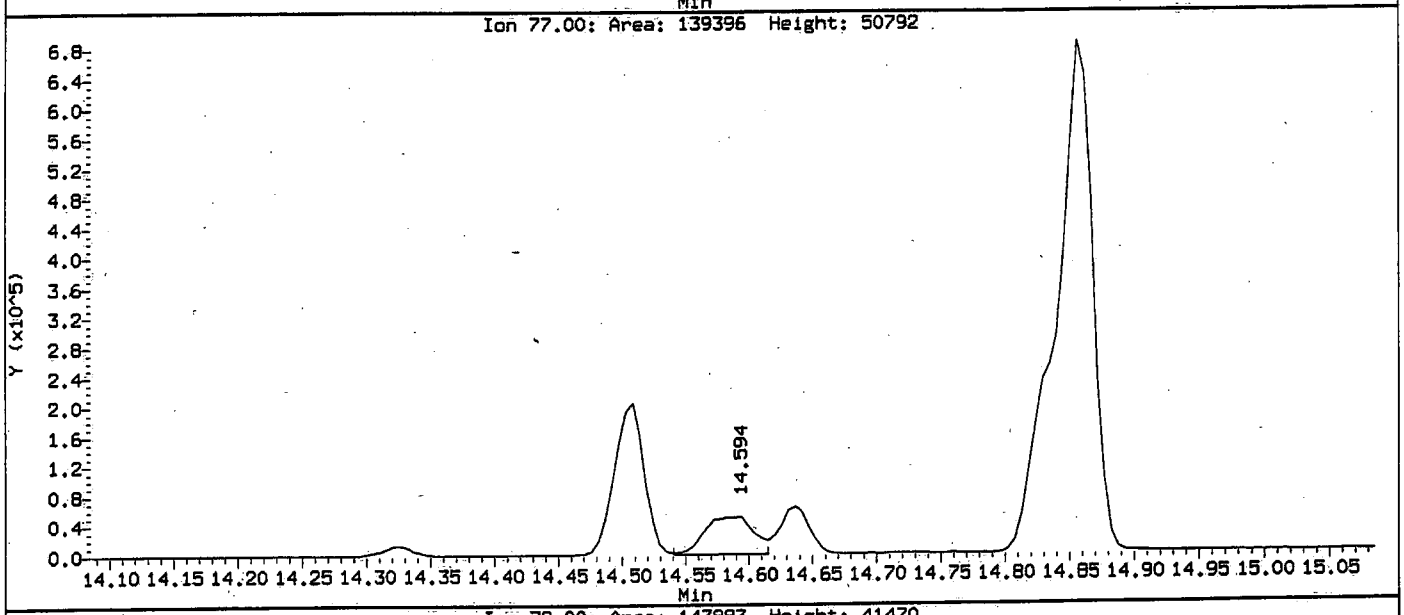
M - Compound response manually integrated.

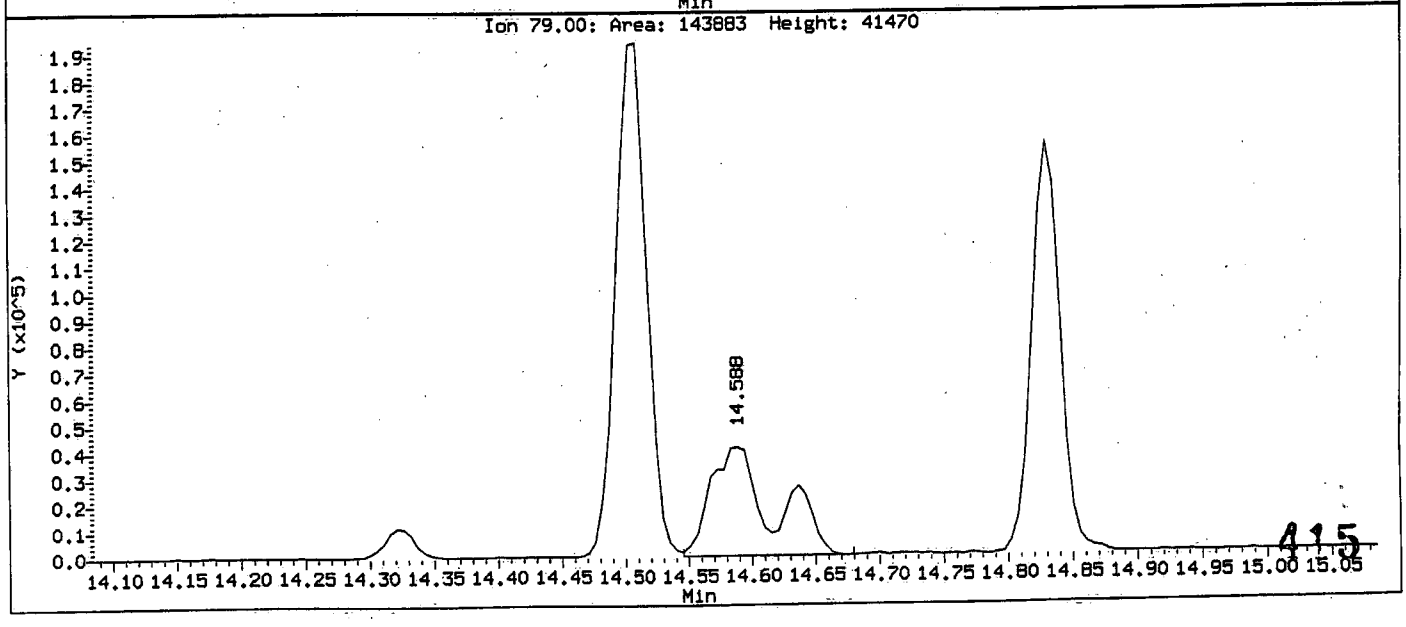
KL 10/23/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5963.D
Injection Date: 20-OCT-2000 21:40
Instrument: s3.i
Client Sample ID: SSTD1203B

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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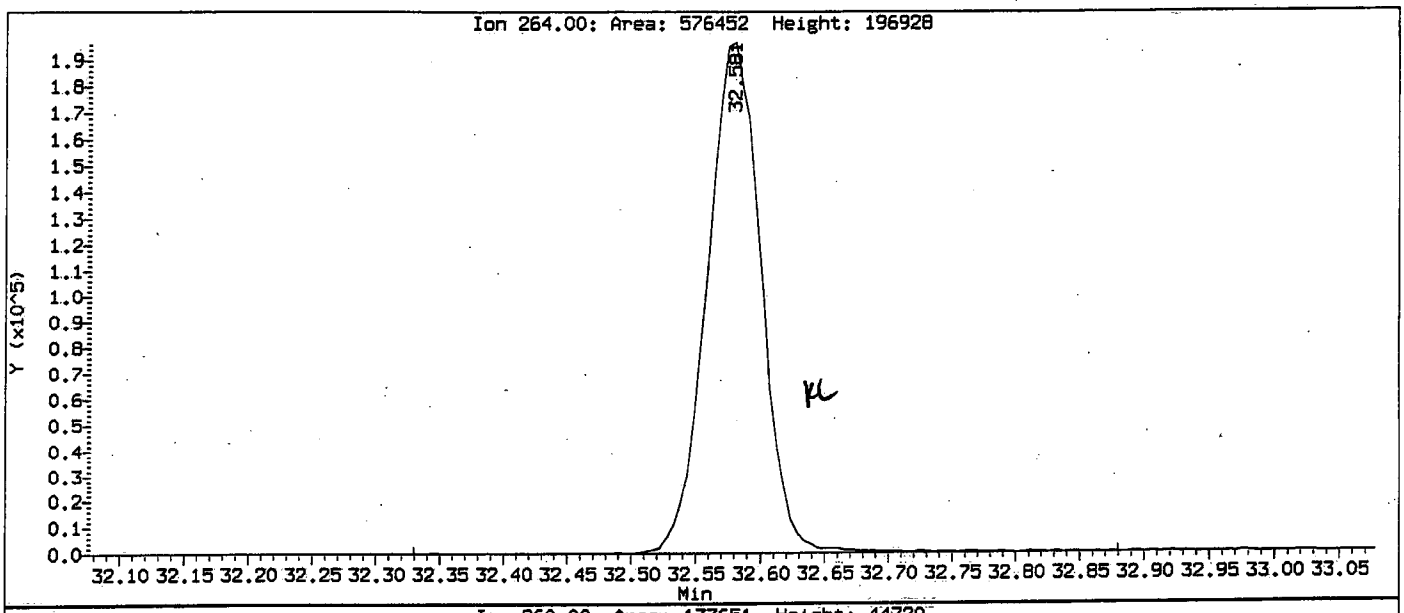
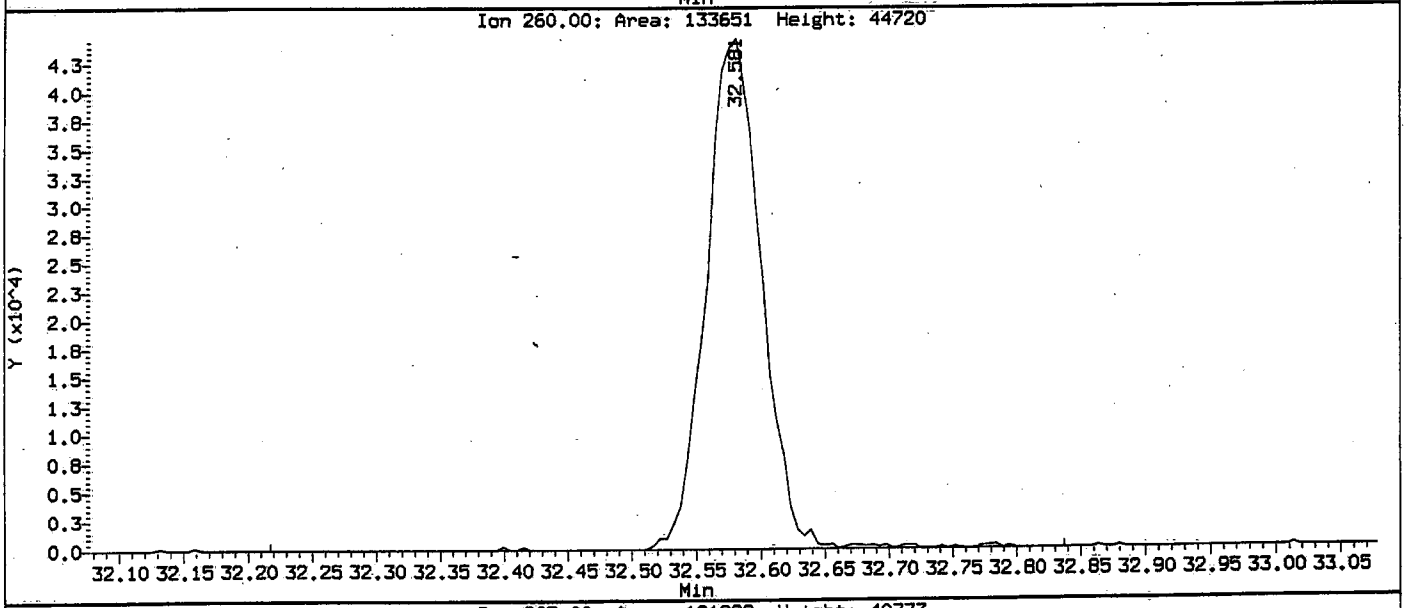
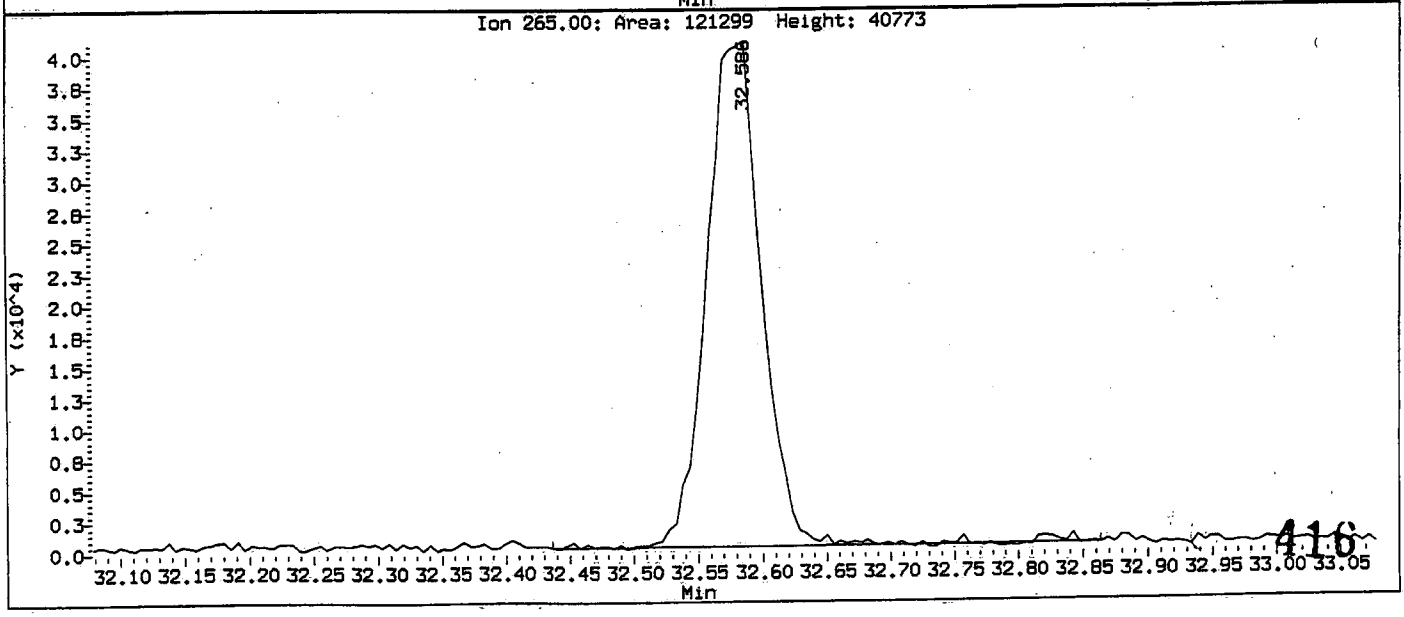
Injection Date: 20-OCT-2000 21:40
Instrument: s3.i
Client Sample ID: SSTD1203B

Compound: Perylene-d12
CAS Number: 1520-96-3







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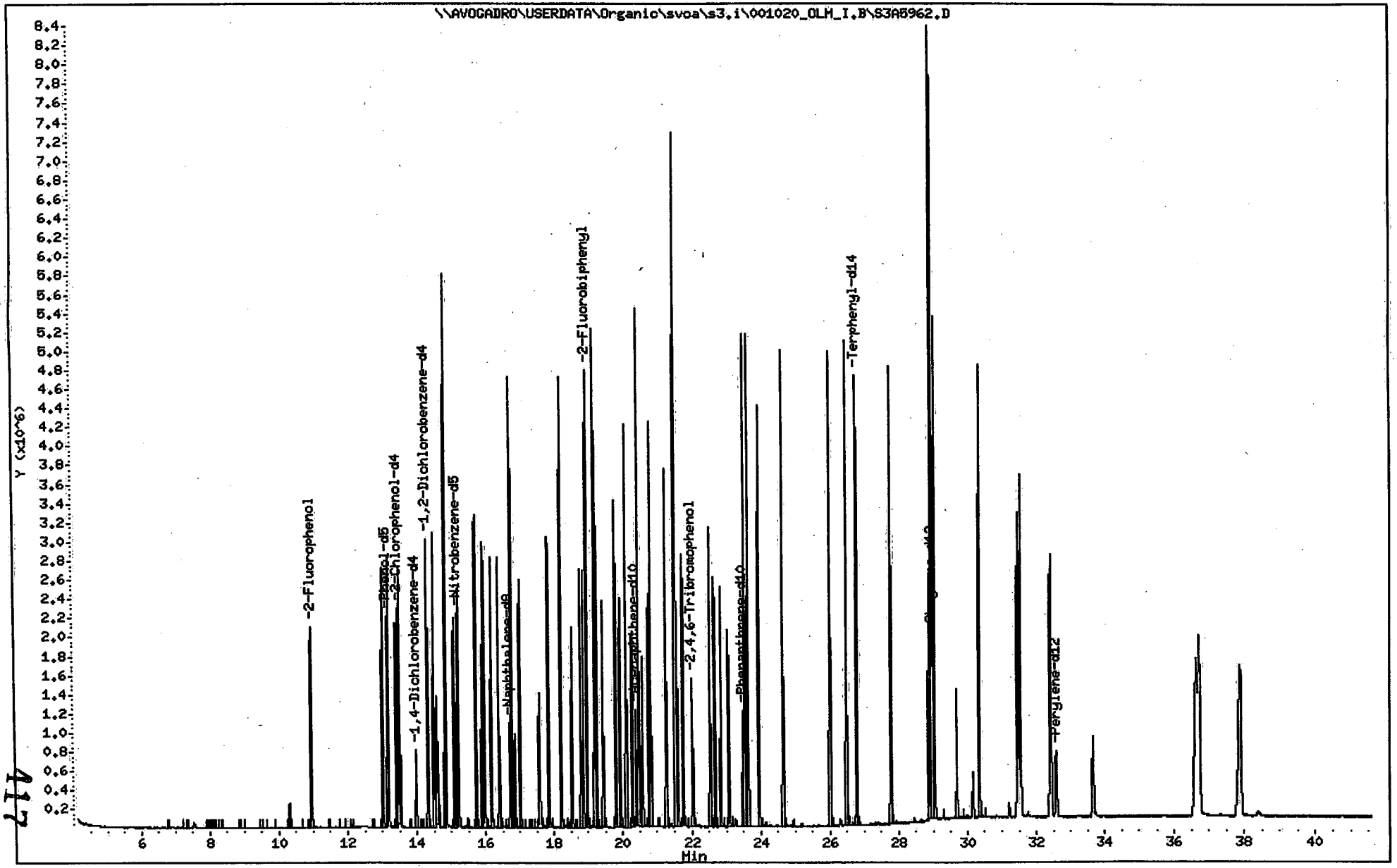
Date : 20-OCT-2000 20:00
Client ID: SSTD1603B
Sample Info: SS1019G,SSTD1603B

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5962.D
Report Date: 21-Oct-2000 14:22

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5962.D
Lab Smp Id: SS1019G Client Smp ID: SSTD1603B
Inj Date : 20-OCT-2000 20:00
Operator : QY Inst ID: s3.i
Smp Info : SS1019G,SSTD1603B
Misc Info : 1,5,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\s3_olm4_1.m
Meth Date : 21-Oct-2000 14:20 mtl Quant Type: ISTD
Cal Date : 21-OCT-2000 00:59 Cal File: S3A5965.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	10.945	10.942	(0.782)	1144965	160.000	160(A)
2 Benzaldehyde	77	13.029	13.020	(0.931)	999869	160.000	170(A)
$ 3 Phenol-d5	99	13.157	13.148	(0.940)	1470158	160.000	160(A)
4 Phenol	94	13.189	13.175	(0.943)	1543857	160.000	160(A)
5 bis(2-Chloroethyl)Ether	93	13.419	13.405	(0.959)	1208922	160.000	160(A)
$ 6 2-Chlorophenol-d4	132	13.488	13.480	(0.964)	1194949	160.000	160(A)
7 2-Chlorophenol	128	13.520	13.512	(0.966)	1228007	160.000	160(A)
* 8 1,4-Dichlorobenzene-d4	152	13.990	13.992	(1.000)	221024	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.327	14.324	(1.024)	823465	160.000	160(A)
10 2-Methylphenol	108	14.509	14.500	(1.037)	1120205	160.000	160(A)
11 2,2'-oxybis(1-Chloropropane)	45	14.583	14.585	(1.042)	1865877	160.000	180(AM) KL 10/23/00
12 4-Methylphenol	108	14.834	14.820	(1.060)	1168299	160.000	160(A)
13 N-Nitroso-di-n-propylamine	70	14.861	14.847	(1.062)	759262	160.000	160(A)
14 Acetophenone	105	14.861	14.853	(1.062)	1645552	160.000	160(A)
15 Hexachloroethane	117	15.096	15.093	(1.079)	468706	160.000	160(A)
$ 16 Nitrobenzene-d5	82	15.187	15.173	(0.909)	1258266	160.000	160(A)
17 Nitrobenzene	77	15.230	15.216	(0.911)	1314940	160.000	160(A)
18 Isophorone	82	15.737	15.723	(0.942)	2306536	160.000	160(A)
19 2-Nitrophenol	139	15.903	15.894	(0.951)	590098	160.000	170(A)
20 2,4-Dimethylphenol	107	15.967	15.958	(0.955)	1015030	160.000	160(A)
21 bis(2-Chloroethoxy)methane	93	16.186	16.177	(0.968)	1446756	160.000	160(A)
22 2,4-Dichlorophenol	162	16.400	16.391	(0.981)	935898	160.000	170(A)
* 23 Naphthalene-d8	136	16.715	16.712	(1.000)	836283	40.0000	
24 Naphthalene	128	16.763	16.760	(1.003)	3604174	160.000	160
25 4-Chloroaniline	127	16.854	16.850	(1.008)	461456	160.000	170(A)
26 Hexachlorobutadiene	225	17.014	17.011	(1.018)	450036	160.000	160(A)

Data File: S3A5962.D
Report Date: 21-Oct-2000 14:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.580	17.529	(1.052)	437567	160.000	170(A)
	28 4-Chloro-3-Methylphenol	107	17.847	17.833	(1.068)	1007009	160.000	170(A)
	29 2-Methylnaphthalene	142	18.216	18.207	(1.090)	2312043	160.000	160
	30 Hexachlorocyclopentadiene	237	18.537	18.533	(0.909)	493998	160.000	170(A)
	31 2,4,6-Trichlorophenol	196	18.788	18.779	(0.921)	610550	160.000	170(A)
	32 2,4,5-Trichlorophenol	196	18.862	18.848	(0.925)	668888	160.000	170(A)
$	33 2-Fluorobiphenyl	172	18.969	18.966	(0.930)	2525588	160.000	160(A)
	34 1,1'-Biphenyl	154	19.188	19.180	(0.941)	2871096	160.000	160(A)
	35 2-Chloronaphthalene	162	19.236	19.228	(0.943)	2073545	160.000	160(A)
	36 2-Nitroaniline	65	19.429	19.420	(0.953)	680064	160.000	170(A)
	37 Dimethylphthalate	163	19.797	19.789	(0.971)	2329331	160.000	160(A)
	38 2,6-Dinitrotoluene	165	19.931	19.917	(0.977)	517532	160.000	170(A)
	39 Acenaphthylene	152	20.107	20.098	(0.986)	3292668	160.000	160(A)
	40 3-Nitroaniline	138	20.278	20.269	(0.994)	529174	160.000	170(A)
*	41 Acenaphthene-d10	164	20.396	20.387	(1.000)	464482	40.0000	
	42 Acenaphthene	153	20.465	20.456	(1.003)	2197345	160.000	160(A)
	43 2,4-Dinitrophenol	184	20.492	20.483	(1.005)	188490	160.000	180(A)
	44 4-Nitrophenol	109	20.583	20.563	(1.009)	285987	160.000	170(A)
	45 2,4-Dinitrotoluene	165	20.764	20.756	(1.018)	725698	160.000	180(A)
	46 Dibenzofuran	168	20.823	20.814	(1.021)	3018823	160.000	160
	47 Diethylphthalate	149	21.266	21.258	(1.043)	2341620	160.000	160(A)
	48 4-Chlorophenyl-phenylether	204	21.523	21.519	(1.055)	1070848	160.000	160(A)
	49 Fluorene	166	21.539	21.530	(1.056)	2440249	160.000	160
	50 4-Nitroaniline	138	21.555	21.530	(1.057)	642561	160.000	170(A)
	51 4,6-Dinitro-2-methylphenol	198	21.608	21.600	(0.920)	321694	160.000	180(A)
	52 N-Nitrosodiphenylamine (1)	169	21.758	21.749	(0.926)	1203068	160.000	160(A)
$	53 2,4,6-Tribromophenol	330	22.025	22.022	(0.938)	250068	160.000	170(A)
	54 4-Bromophenyl-phenylether	248	22.543	22.540	(0.960)	546363	160.000	160(A)
	55 Hexachlorobenzene	284	22.677	22.668	(0.965)	538884	160.000	160(A)
	56 Atrazine	200	22.848	22.839	(0.973)	430399	160.000	160(A)
	57 Pentachlorophenol	266	23.072	23.063	(0.982)	363198	160.000	170(A)
*	58 Phenanthrene-d10	188	23.489	23.485	(1.000)	761319	40.0000	
	59 Phenanthrene	178	23.542	23.533	(1.002)	3498419	160.000	160
	60 Anthracene	178	23.649	23.640	(1.007)	3519129	160.000	160(A)
	61 Carbazole	167	23.964	23.956	(1.020)	3187420	160.000	160
	62 Di-n-butylphthalate	149	24.659	24.650	(1.050)	3988302	160.000	160(A)
	63 Fluoranthene	202	26.016	26.007	(1.108)	3511716	160.000	160(A)
	64 Pyrene	202	26.491	26.482	(0.914)	3628296	160.000	160
$	65 Terphenyl-d14	244	26.785	26.776	(0.924)	2435807	160.000	160
	66 Butylbenzylphthalate	149	27.778	27.770	(0.959)	1812493	160.000	170(A)
	67 3,3'-Dichlorobenzidine	252	28.879	28.870	(0.996)	839510	160.000	170(A)
	68 bis(2-Ethylhexyl)phthalate	149	28.938	28.934	(0.999)	2533496	160.000	170(A)
	69 Benzo(a)anthracene	228	28.959	28.950	(0.999)	3127993	160.000	160
*	70 Chrysene-d12	240	28.980	28.966	(1.000)	633925	40.0000	
	71 Chrysene	228	29.034	29.025	(1.002)	2964581	160.000	160
	72 Di-n-octylphthalate	149	30.348	30.339	(1.000)	4198376	160.000	170(A)
	73 Benzo(b)fluoranthene	252	31.470	31.451	(1.000)	3119173	160.000	170(A)

Data File: S3A5962.D
Report Date: 21-Oct-2000 14:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.550	31.525	(1.000)	3063636	160.000	160(A)
75 Benzo(a)pyrene	252	32.431	32.401	(1.000)	2803457	160.000	170(A)
* 76 Perylene-d12	264	32.586	32.578	(1.000)	557449	40.0000	(M)
77 Indeno(1,2,3-cd)pyrene	276	36.620	36.579	(1.000)	2916065	160.000	170(A)
78 Dibenzo(a,h)anthracene	278	36.716	36.670	(1.127)	2875420	160.000	170(AM)
79 Benzo(g,h,i)perylene	276	37.880	37.824	(1.000)	2859822	160.000	180(A)

KC 10/23/00

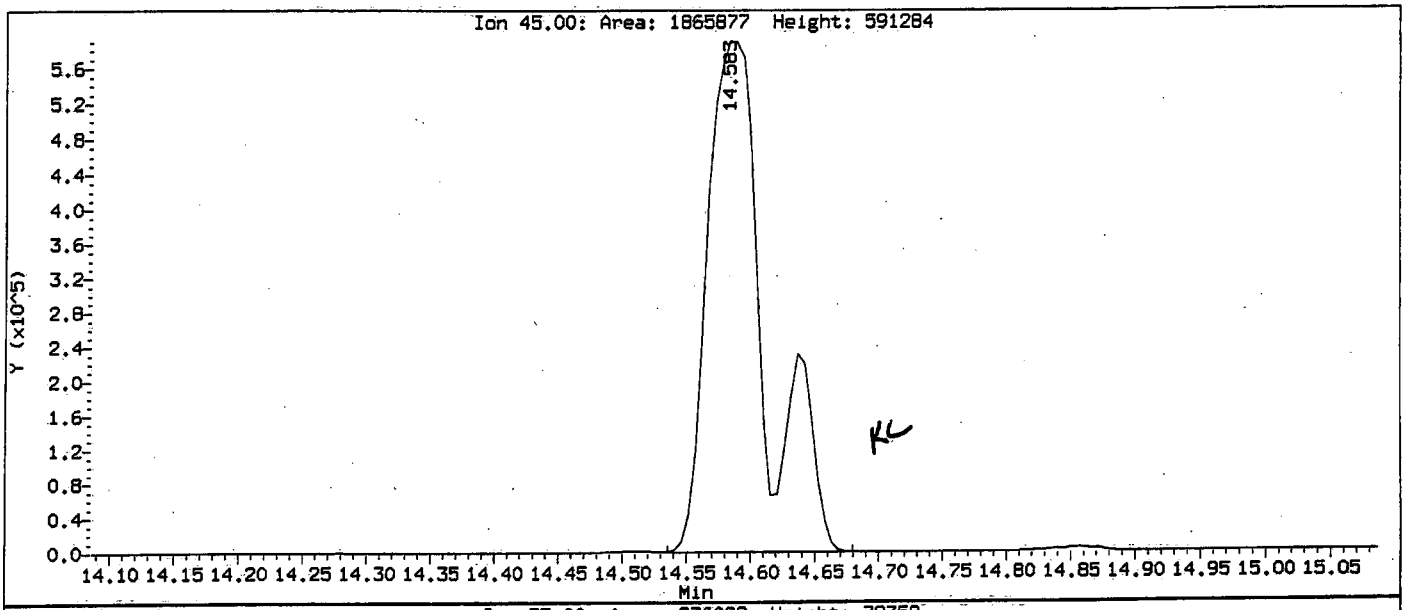
QC Flag Legend

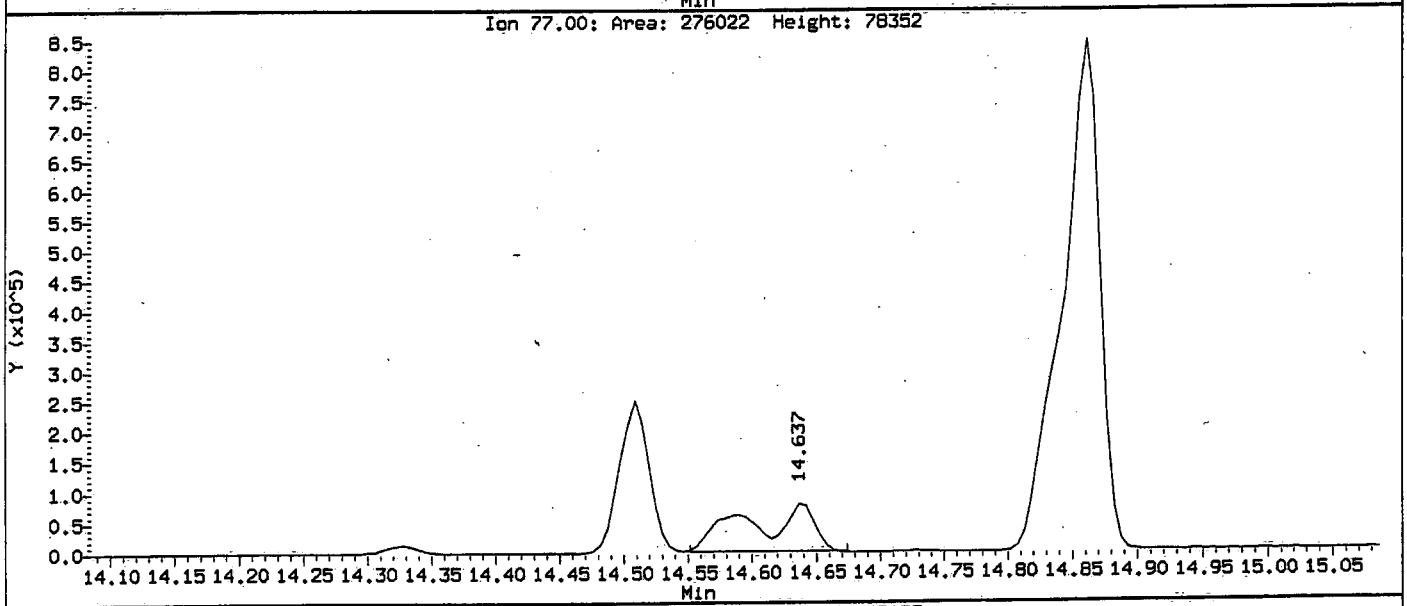
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

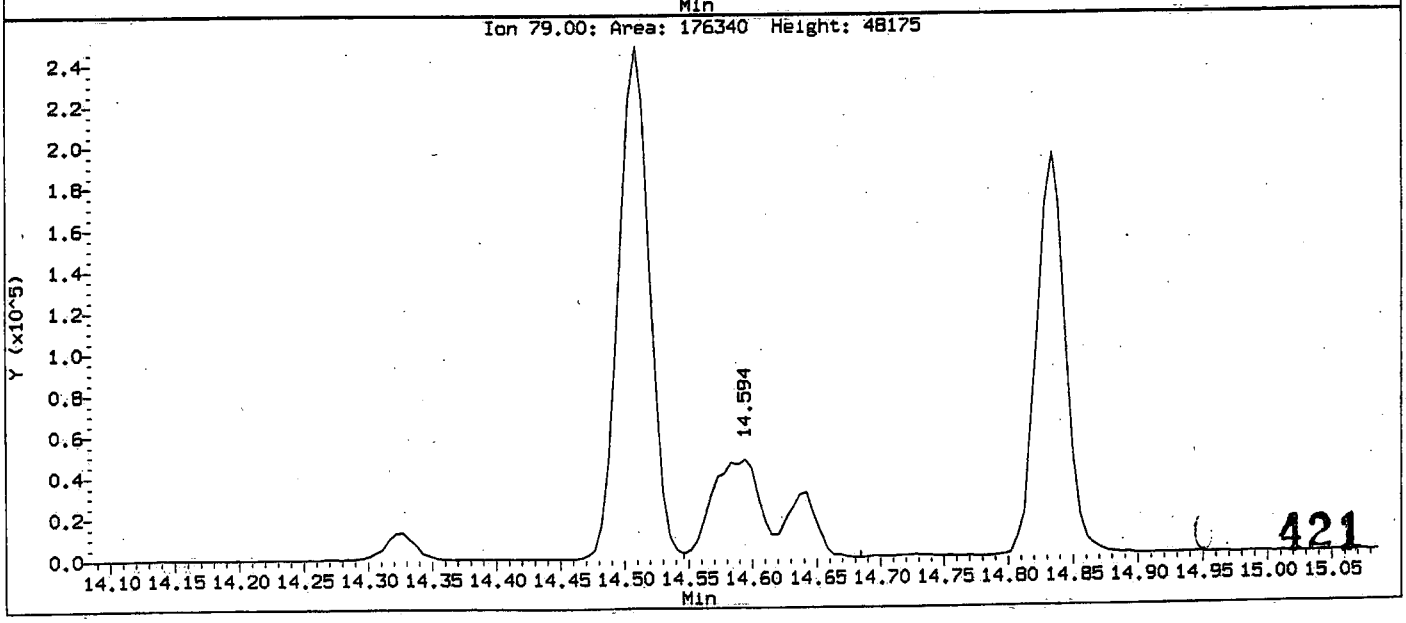
KC
10/23/00

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5962.D
Injection Date: 20-OCT-2000 20:00
Instrument: s3.i
Client Sample ID: SSTD1603B

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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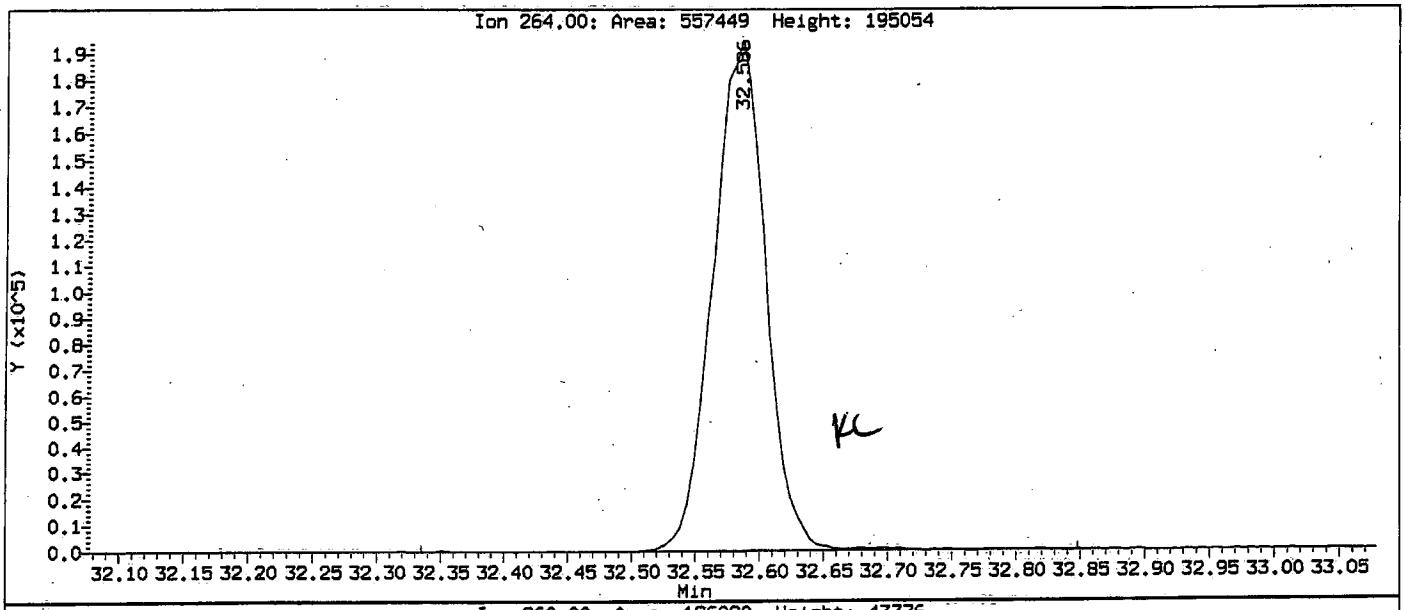
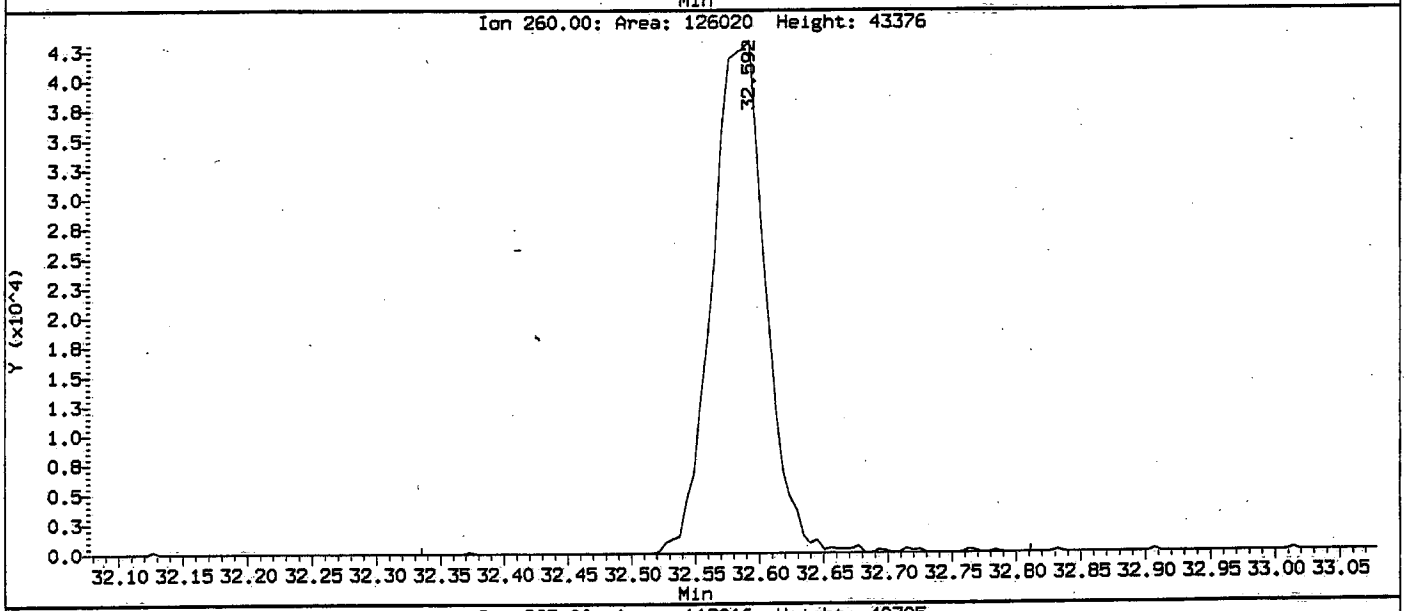
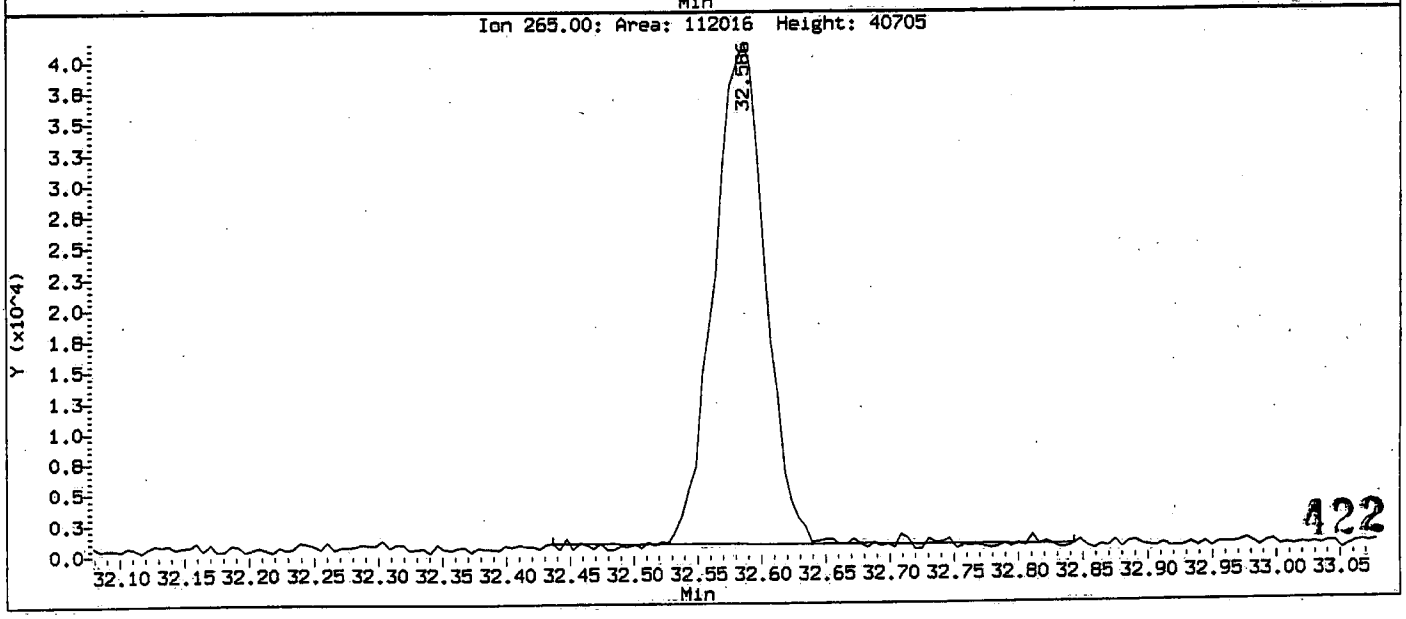
Injection Date: 20-OCT-2000 20:00
Instrument: s3.i
Client Sample ID: SSTD1603B

Compound: Perylene-d12
CAS Number: 1520-96-3







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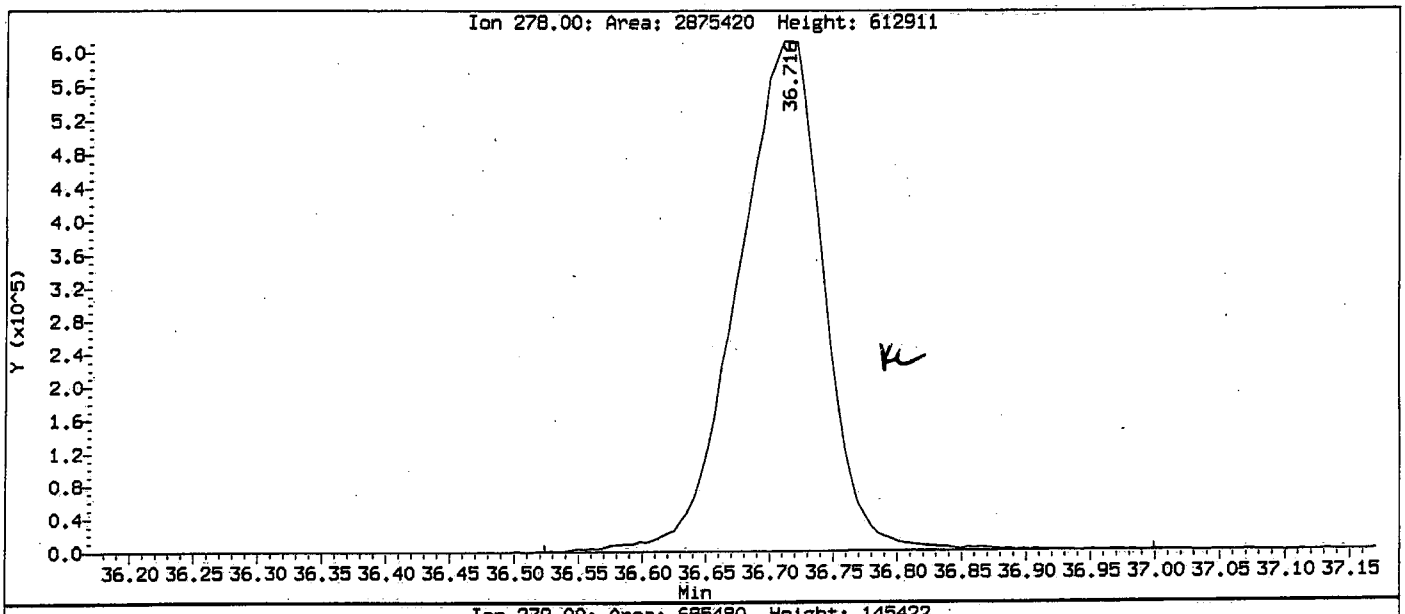
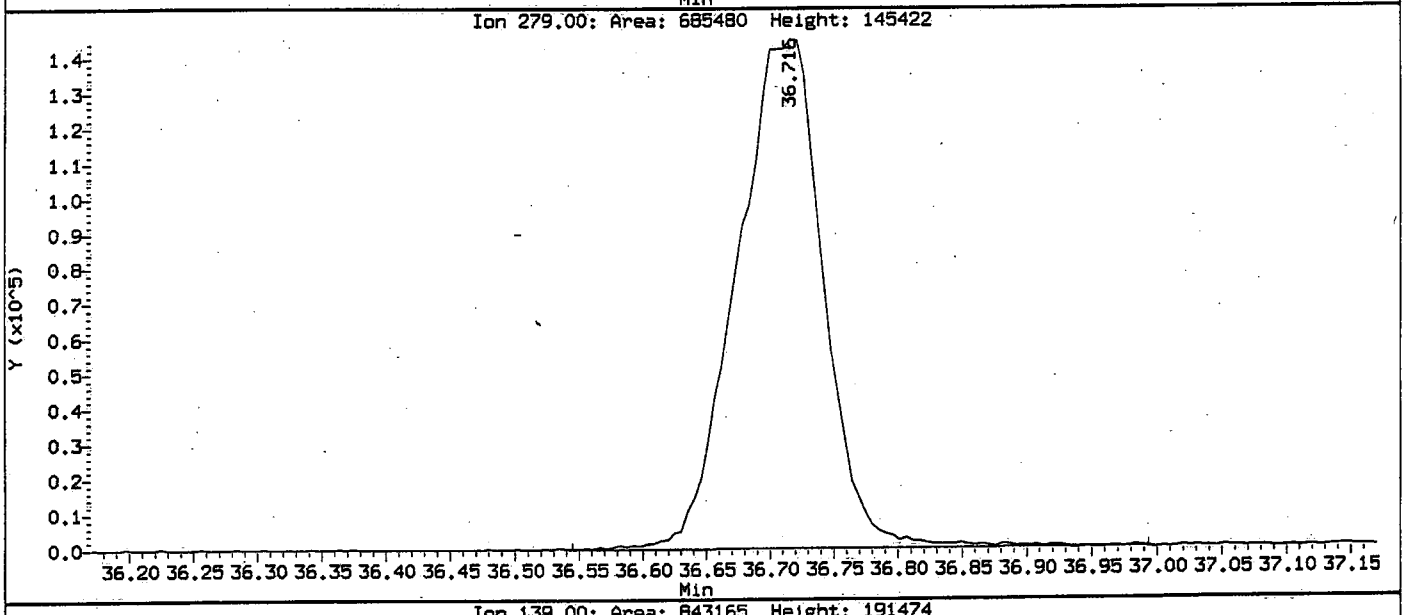
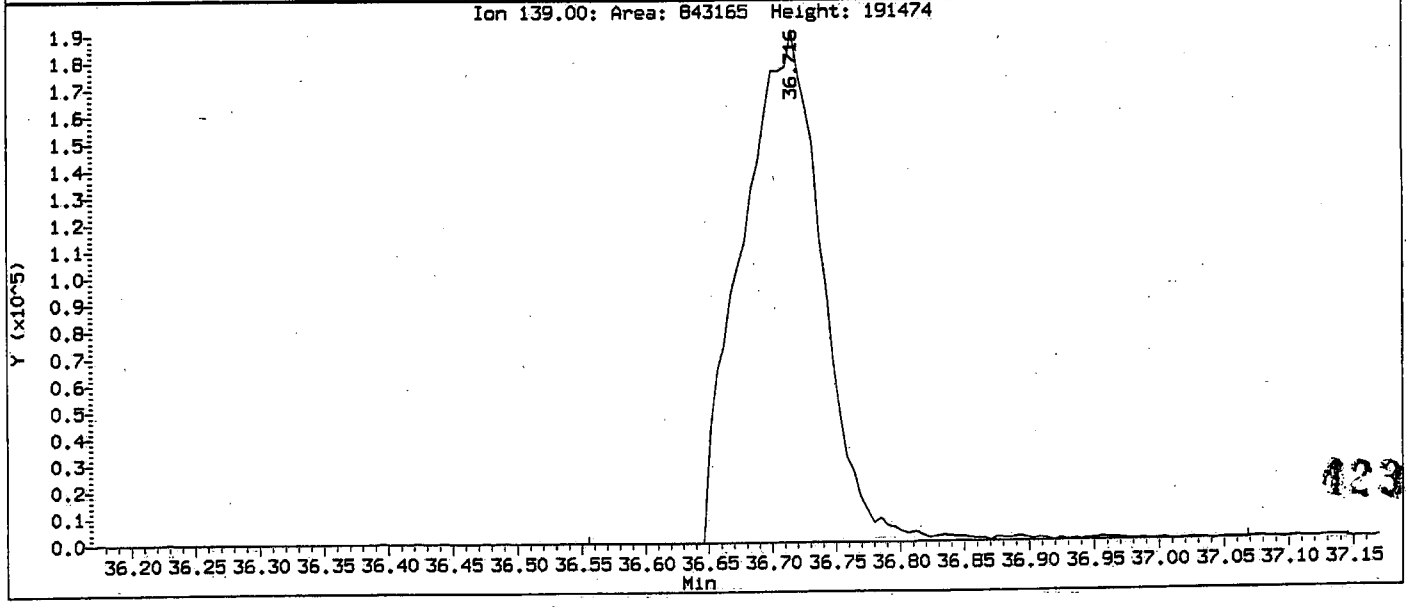
Injection Date: 20-OCT-2000 20:00
Instrument: s3.i
Client Sample ID: SSTD1603B

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3







7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Instrument ID: S3 Calibration Date: 10/15/00 Time: 1744

Lab File ID: S3A5883 Init. Calib. Date(s): 09/08/00 09/08/00

EPA Sample No.(SSTD050##): SSTD0503U Init. Calib. Times: 1119 1605

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.998	1.110		11.2	
Phenol	1.645	1.617	0.800	-1.7	25.0
bis(2-Chloroethyl)Ether	1.266	1.242	0.700	-1.9	25.0
2-Chlorophenol	1.367	1.386	0.800	1.4	25.0
2-Methylphenol	1.206	1.212	0.700	0.5	25.0
2,2'-oxybis(1-Chloropropane)	1.579	1.394		-11.7	
Acetophenone	1.847	1.895		2.6	
4-Methylphenol	1.292	1.254	0.600	-2.9	25.0
N-Nitroso-di-n-propylamine	0.866	0.905	0.500	4.5	25.0
Hexachloroethane	0.547	0.590	0.300	7.9	25.0
Nitrobenzene	0.390	0.394	0.200	1.0	25.0
Isophorone	0.677	0.654	0.400	-3.4	25.0
2-Nitrophenol	0.203	0.193	0.100	-4.9	25.0
2,4-Dimethylphenol	0.288	0.273	0.200	-5.2	25.0
bis(2-Chloroethoxy)methane	0.413	0.386	0.300	-6.5	25.0
2,4-Dichlorophenol	0.301	0.283	0.200	-6.0	25.0
Naphthalene	1.082	1.038	0.700	-4.1	25.0
4-Chloroaniline	0.100	0.110		10.0	
Hexachlorobutadiene	0.156	0.157		0.6	
Caprolactam	0.120	0.110		-8.3	
4-Chloro-3-Methylphenol	0.307	0.303	0.200	-1.3	25.0
2-Methylnaphthalene	0.716	0.667	0.400	-6.8	25.0
Hexachlorocyclopentadiene	0.305	0.280		-8.2	
2,4,6-Trichlorophenol	0.341	0.312	0.200	-8.5	25.0
2,4,5-Trichlorophenol	0.377	0.345	0.200	-8.5	25.0
1,1'-Biphenyl	1.498	1.387		-7.4	
2-Chloronaphthalene	1.132	1.035	0.800	-8.6	25.0
2-Nitroaniline	0.356	0.353		-0.8	
Dimethylphthalate	1.315	1.217		-7.5	
2,6-Dinitrotoluene	0.314	0.285	0.200	-9.2	25.0
Acenaphthylene	1.734	1.584	0.900	-8.7	25.0
3-Nitroaniline	0.321	0.279		-13.1	
Acenaphthene	1.169	1.065	0.900	-8.9	25.0
2,4-Dinitrophenol	0.169	0.158		-6.5	
4-Nitrophenol	0.174	0.194		11.5	
Dibenzofuran	1.648	1.477	0.800	-10.4	25.0

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.: 71643

Instrument ID: S3 Calibration Date: 10/15/00 Time: 1744

Lab File ID: S3A5883 Init. Calib. Date(s): 09/08/00 09/08/00

EPA Sample No.(SSTD050##): SSTD0503U Init. Calib. Times: 1119 1605

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.441	0.400	0.200	-9.3	25.0
Diethylphthalate	1.296	1.230		-5.1	
Fluorene	1.350	1.201	0.900	-11.0	25.0
4-Chlorophenyl-phenylether	0.596	0.520	0.400	-12.8	25.0
4-Nitroaniline	0.377	0.300		-20.4	
4,6-Dinitro-2-methylphenol	0.148	0.146		-1.4	
N-Nitrosodiphenylamine (1)	0.370	0.361		-2.4	
4-Bromophenyl-phenylether	0.198	0.183	0.100	-7.6	25.0
Hexachlorobenzene	0.201	0.192	0.100	-4.5	25.0
Atrazine	0.136	0.147		8.1	
Pentachlorophenol	0.132	0.121	0.050	-8.3	25.0
Phenanthrene	1.176	1.104	0.700	-6.1	25.0
Anthracene	1.175	1.092	0.700	-7.1	25.0
Carbazole	1.110	1.006		-9.4	
Di-n-butylphthalate	1.361	1.365		0.3	
Fluoranthene	1.188	1.085	0.600	-8.7	25.0
Pyrene	1.359	1.281	0.600	-5.7	25.0
Butylbenzylphthalate	0.704	0.717		1.8	
3,3'-Dichlorobenzidine	0.349	0.331		-5.2	
Benzo(a)anthracene	1.277	1.154	0.800	-9.6	25.0
Chrysene	1.187	1.082	0.700	-8.8	25.0
bis(2-Ethylhexyl)phthalate	0.994	1.005		1.1	
Di-n-octylphthalate	1.736	1.799		3.6	
Benzo(b)fluoranthene	1.373	1.226	0.700	-10.7	25.0
Benzo(k)fluoranthene	1.399	1.265	0.700	-9.6	25.0
Benzo(a)pyrene	1.233	1.086	0.700	-11.9	25.0
Indeno(1,2,3-cd)pyrene	1.307	1.088	0.500	-16.8	25.0
Dibenzo(a,h)anthracene	1.294	1.110	0.400	-14.2	25.0
Benzo(g,h,i)perylene	1.285	1.137	0.500	-11.5	25.0
Nitrobenzene-d5	0.373	0.388	0.200	4.0	25.0
2-Fluorobiphenyl	1.309	1.222	0.700	-6.6	25.0
Terphenyl-d14	0.952	0.916	0.500	-3.8	25.0
Phenol-d5	1.588	1.525	0.800	-4.0	25.0
2-Fluorophenol	1.261	1.273	0.600	1.0	25.0
2,4,6-Tribromophenol	0.090	0.094		4.4	
2-Chlorophenol-d4	1.394	1.379	0.800	-1.1	25.0
1,2-Dichlorobenzene-d4	0.912	0.930	0.500	2.0	25.0

(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.: 71643

Instrument ID: S3 Calibration Date: 10/17/00 Time: 1021

Lab File ID: S3A5916 Init. Calib. Date(s): 09/08/00 09/08/00

EPA Sample No.(SSTD050##): SSTD0503X Init. Calib. Times: 1119 1605

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	0.998	1.121		12.3	
Phenol	1.645	1.624	0.800	-1.3	25.0
bis(2-Chloroethyl)Ether	1.266	1.236	0.700	-2.4	25.0
2-Chlorophenol	1.367	1.392	0.800	1.8	25.0
2-Methylphenol	1.206	1.183	0.700	-1.9	25.0
2,2'-oxybis(1-Chloropropane)	1.579	1.379		-12.7	
Acetophenone	1.847	1.872		1.4	
4-Methylphenol	1.292	1.231	0.600	-4.7	25.0
N-Nitroso-di-n-propylamine	0.866	0.865	0.500	-0.1	25.0
Hexachloroethane	0.547	0.592	0.300	8.2	25.0
Nitrobenzene	0.390	0.396	0.200	1.5	25.0
Isophorone	0.677	0.657	0.400	-3.0	25.0
2-Nitrophenol	0.203	0.195	0.100	-3.9	25.0
2,4-Dimethylphenol	0.288	0.271	0.200	-5.9	25.0
bis(2-Chloroethoxy)methane	0.413	0.384	0.300	-7.0	25.0
2,4-Dichlorophenol	0.301	0.284	0.200	-5.6	25.0
Naphthalene	1.082	1.045	0.700	-3.4	25.0
4-Chloroaniline	0.100	0.109		9.0	
Hexachlorobutadiene	0.156	0.154		-1.3	
Caprolactam	0.120	0.110		-8.3	
4-Chloro-3-Methylphenol	0.307	0.308	0.200	0.3	25.0
2-Methylnaphthalene	0.716	0.664	0.400	-7.3	25.0
Hexachlorocyclopentadiene	0.305	0.276		-9.5	
2,4,6-Trichlorophenol	0.341	0.322	0.200	-5.6	25.0
2,4,5-Trichlorophenol	0.377	0.348	0.200	-7.7	25.0
1,1'-Biphenyl	1.498	1.394		-6.9	
2-Chloronaphthalene	1.132	1.061	0.800	-6.3	25.0
2-Nitroaniline	0.356	0.364		2.2	
Dimethylphthalate	1.315	1.253		-4.7	
2,6-Dinitrotoluene	0.314	0.293	0.200	-6.7	25.0
Acenaphthylene	1.734	1.610	0.900	-7.2	25.0
3-Nitroaniline	0.321	0.289		-10.0	
Acenaphthene	1.169	1.073	0.900	-8.2	25.0
2,4-Dinitrophenol	0.169	0.156		-7.7	
4-Nitrophenol	0.174	0.210		20.7	
Dibenzofuran	1.648	1.499	0.800	-9.0	25.0

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.: 71643

Instrument ID: S3 Calibration Date: 10/17/00 Time: 1021

Lab File ID: S3A5916 Init. Calib. Date(s): 09/08/00 09/08/00

EPA Sample No.(SSTD050##): SSTD0503X Init. Calib. Times: 1119 1605

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.441	0.411	0.200	-6.8	25.0
Diethylphthalate	1.296	1.274		-1.7	
Fluorene	1.350	1.210	0.900	-10.4	25.0
4-Chlorophenyl-phenylether	0.596	0.531	0.400	-10.9	25.0
4-Nitroaniline	0.377	0.313		-17.0	
4,6-Dinitro-2-methylphenol	0.148	0.142		-4.1	
N-Nitrosodiphenylamine (1)	0.370	0.349		-5.7	
4-Bromophenyl-phenylether	0.198	0.184	0.100	-7.1	25.0
Hexachlorobenzene	0.201	0.189	0.100	-6.0	25.0
Atrazine	0.136	0.148		8.8	
Pentachlorophenol	0.132	0.125	0.050	-5.3	25.0
Phenanthrene	1.176	1.093	0.700	-7.1	25.0
Anthracene	1.175	1.073	0.700	-8.7	25.0
Carbazole	1.110	1.005		-9.5	
Di-n-butylphthalate	1.361	1.407		3.4	
Fluoranthene	1.188	1.088	0.600	-8.4	25.0
Pyrene	1.359	1.240	0.600	-8.8	25.0
Butylbenzylphthalate	0.704	0.703		-0.1	
3,3'-Dichlorobenzidine	0.349	0.323		-7.4	
Benzo(a)anthracene	1.277	1.144	0.800	-10.4	25.0
Chrysene	1.187	1.077	0.700	-9.3	25.0
bis(2-Ethylhexyl)phthalate	0.994	0.993		-0.1	
Di-n-octylphthalate	1.736	1.837		5.8	
Benzo(b)fluoranthene	1.373	1.226	0.700	-10.7	25.0
Benzo(k)fluoranthene	1.399	1.289	0.700	-7.9	25.0
Benzo(a)pyrene	1.233	1.091	0.700	-11.5	25.0
Indeno(1,2,3-cd)pyrene	1.307	1.137	0.500	-13.0	25.0
Dibenzo(a,h)anthracene	1.294	1.183	0.400	-8.6	25.0
Benzo(g,h,i)perylene	1.285	1.180	0.500	-8.2	25.0
Nitrobenzene-d5	0.373	0.394	0.200	5.6	25.0
2-Fluorobiphenyl	1.309	1.237	0.700	-5.5	25.0
Terphenyl-d14	0.952	0.892	0.500	-6.3	25.0
Phenol-d5	1.588	1.535	0.800	-3.3	25.0
2-Fluorophenol	1.261	1.292	0.600	2.5	25.0
2,4,6-Tribromophenol	0.090	0.093		3.3	
2-Chlorophenol-d4	1.394	1.367	0.800	-1.9	25.0
1,2-Dichlorobenzene-d4	0.912	0.929	0.500	1.9	25.0

(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.: 71643

Instrument ID: S3 Calibration Date: 10/21/00 Time: 0059

Lab File ID: S3A5965 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503B Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	1.094	1.051		-3.9	
Phenol	1.721	1.728	0.800	0.4	25.0
bis(2-Chloroethyl)Ether	1.355	1.365	0.700	0.7	25.0
2-Chlorophenol	1.364	1.358	0.800	-0.4	25.0
2-Methylphenol	1.243	1.241	0.700	-0.2	25.0
2,2'-oxybis(1-Chloropropane)	2.091	2.077		-0.7	
Acetophenone	1.856	1.837		-1.0	
4-Methylphenol	1.303	1.307	0.600	0.3	25.0
N-Nitroso-di-n-propylamine	0.845	0.837	0.500	-0.9	25.0
Hexachloroethane	0.521	0.522	0.300	0.2	25.0
Nitrobenzene	0.387	0.392	0.200	1.3	25.0
Isophorone	0.682	0.687	0.400	0.7	25.0
2-Nitrophenol	0.168	0.168	0.100	0.0	25.0
2,4-Dimethylphenol	0.301	0.309	0.200	2.7	25.0
bis(2-Chloroethoxy)methane	0.432	0.436	0.300	0.9	25.0
2,4-Dichlorophenol	0.270	0.267	0.200	-1.1	25.0
Naphthalene	1.086	1.095	0.700	0.8	25.0
4-Chloroaniline	0.130	0.131		0.8	
Hexachlorobutadiene	0.134	0.132		-1.5	
Caprolactam	0.123	0.123		0.0	
4-Chloro-3-Methylphenol	0.291	0.290	0.200	-0.3	25.0
2-Methylnaphthalene	0.699	0.710	0.400	1.6	25.0
Hexachlorocyclopentadiene	0.251	0.246		-2.0	
2,4,6-Trichlorophenol	0.315	0.311	0.200	-1.3	25.0
2,4,5-Trichlorophenol	0.347	0.338	0.200	-2.6	25.0
1,1'-Biphenyl	1.537	1.547		0.7	
2-Chloronaphthalene	1.106	1.115	0.800	0.8	25.0
2-Nitroaniline	0.352	0.340		-3.4	
Dimethylphthalate	1.234	1.244		0.8	
2,6-Dinitrotoluene	0.258	0.256	0.200	-0.8	25.0
Acenaphthylene	1.762	1.779	0.900	1.0	25.0
3-Nitroaniline	0.271	0.251		-7.4	
Acenaphthene	1.172	1.173	0.900	0.1	25.0
2,4-Dinitrophenol	0.088	0.068		-22.7	
4-Nitrophenol	0.141	0.127		-9.9	
Dibenzofuran	1.629	1.652	0.800	1.4	25.0

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.: 71643

Instrument ID: S3 Calibration Date: 10/21/00 Time: 0059

Lab File ID: S3A5965 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503B Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.348	0.340	0.200	-2.3	25.0
Diethylphthalate	1.227	1.244		1.4	
Fluorene	1.315	1.330	0.900	1.1	25.0
4-Chlorophenyl-phenylether	0.571	0.578	0.400	1.2	25.0
4-Nitroaniline	0.329	0.314		-4.6	
4,6-Dinitro-2-methylphenol	0.095	0.078		-17.9	
N-Nitrosodiphenylamine (1)	0.392	0.405		3.3	
4-Bromophenyl-phenylether	0.179	0.180	0.100	0.6	25.0
Hexachlorobenzene	0.176	0.178	0.100	1.1	25.0
Atrazine	0.138	0.138		0.0	
Pentachlorophenol	0.111	0.102	0.050	-8.1	25.0
Phenanthrene	1.156	1.160	0.700	0.3	25.0
Anthracene	1.154	1.172	0.700	1.6	25.0
Carbazole	1.058	1.072		1.3	
Di-n-butylphthalate	1.289	1.300		0.9	
Fluoranthene	1.149	1.153	0.600	0.3	25.0
Pyrene	1.446	1.476	0.600	2.1	25.0
Butylbenzylphthalate	0.687	0.688		0.1	
3,3'-Dichlorobenzidine	0.314	0.308		-1.9	
Benzo(a)anthracene	1.251	1.278	0.800	2.2	25.0
Chrysene	1.177	1.205	0.700	2.4	25.0
bis(2-Ethylhexyl)phthalate	0.968	0.970		0.2	
Di-n-octylphthalate	1.758	1.715		-2.4	
Benzo(b)fluoranthene	1.358	1.350	0.700	-0.6	25.0
Benzo(k)fluoranthene	1.369	1.362	0.700	-0.5	25.0
Benzo(a)pyrene	1.216	1.214	0.700	-0.2	25.0
Indeno(1,2,3-cd)pyrene	1.232	1.196	0.500	-2.9	25.0
Dibenzo(a,h)anthracene	1.228	1.143	0.400	-6.9	25.0
Benzo(g,h,i)perylene	1.251	1.239	0.500	-1.0	25.0
Nitrobenzene-d5	0.368	0.366	0.200	-0.5	25.0
2-Fluorobiphenyl	1.354	1.353	0.700	-0.1	25.0
Terphenyl-d14	0.973	0.982	0.500	0.9	25.0
Phenol-d5	1.619	1.607	0.800	-0.7	25.0
2-Fluorophenol	1.256	1.245	0.600	-0.9	25.0
2,4,6-Tribromophenol	0.076	0.075		-1.3	
2-Chlorophenol-d4	1.320	1.306	0.800	-1.1	25.0
1,2-Dichlorobenzene-d4	0.925	0.934	0.500	1.0	25.0

(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.: 71643

Instrument ID: S3 Calibration Date: 10/23/00 Time: 1059

Lab File ID: S3A5983 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503D Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	1.094	1.050		-4.0	
Phenol	1.721	1.735	0.800	0.8	25.0
bis(2-Chloroethyl)Ether	1.355	1.371	0.700	1.2	25.0
2-Chlorophenol	1.364	1.380	0.800	1.2	25.0
2-Methylphenol	1.243	1.257	0.700	1.1	25.0
2,2'-oxybis(1-Chloropropane)	2.091	2.072		-0.9	
Acetophenone	1.856	1.833		-1.2	
4-Methylphenol	1.303	1.308	0.600	0.4	25.0
N-Nitroso-di-n-propylamine	0.845	0.859	0.500	1.7	25.0
Hexachloroethane	0.521	0.539	0.300	3.5	25.0
Nitrobenzene	0.387	0.383	0.200	-1.0	25.0
Isophorone	0.682	0.691	0.400	1.3	25.0
2-Nitrophenol	0.168	0.176	0.100	4.8	25.0
2,4-Dimethylphenol	0.301	0.281	0.200	-6.6	25.0
bis(2-Chloroethoxy)methane	0.432	0.435	0.300	0.7	25.0
2,4-Dichlorophenol	0.270	0.281	0.200	4.1	25.0
Naphthalene	1.086	1.094	0.700	0.7	25.0
4-Chloroaniline	0.130	0.134		3.1	
Hexachlorobutadiene	0.134	0.134		0.0	
Caprolactam	0.123	0.126		2.4	
4-Chloro-3-Methylphenol	0.291	0.296	0.200	1.7	25.0
2-Methylnaphthalene	0.699	0.697	0.400	-0.3	25.0
Hexachlorocyclopentadiene	0.251	0.228		-9.2	
2,4,6-Trichlorophenol	0.315	0.318	0.200	1.0	25.0
2,4,5-Trichlorophenol	0.347	0.348	0.200	0.3	25.0
1,1'-Biphenyl	1.537	1.546		0.6	
2-Chloronaphthalene	1.106	1.109	0.800	0.3	25.0
2-Nitroaniline	0.352	0.345		-2.0	
Dimethylphthalate	1.234	1.231		-0.2	
2,6-Dinitrotoluene	0.258	0.271	0.200	5.0	25.0
Acenaphthylene	1.762	1.775	0.900	0.7	25.0
3-Nitroaniline	0.271	0.280		3.3	
Acenaphthene	1.172	1.185	0.900	1.1	25.0
2,4-Dinitrophenol	0.088	0.094		6.8	
4-Nitrophenol	0.141	0.141		0.0	
Dibenzofuran	1.629	1.631	0.800	0.1	25.0

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.: 71643

Instrument ID: S3 Calibration Date: 10/23/00 Time: 1059

Lab File ID: S3A5983 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503D Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.348	0.373	0.200	7.2	25.0
Diethylphthalate	1.227	1.241		1.1	
Fluorene	1.315	1.322	0.900	0.5	25.0
4-Chlorophenyl-phenylether	0.571	0.577	0.400	1.1	25.0
4-Nitroaniline	0.329	0.322		-2.1	
4,6-Dinitro-2-methylphenol	0.095	0.102		7.4	
N-Nitrosodiphenylamine (1)	0.392	0.411		4.8	
4-Bromophenyl-phenylether	0.179	0.188	0.100	5.0	25.0
Hexachlorobenzene	0.176	0.177	0.100	0.6	25.0
Atrazine	0.138	0.143		3.6	
Pentachlorophenol	0.111	0.116	0.050	4.5	25.0
Phenanthrene	1.156	1.179	0.700	2.0	25.0
Anthracene	1.154	1.170	0.700	1.4	25.0
Carbazole	1.058	1.084		2.5	
Di-n-butylphthalate	1.289	1.344		4.3	
Fluoranthene	1.149	1.157	0.600	0.7	25.0
Pyrene	1.446	1.524	0.600	5.4	25.0
Butylbenzylphthalate	0.687	0.743		8.2	
3,3'-Dichlorobenzidine	0.314	0.296		-5.7	
Benzo(a)anthracene	1.251	1.275	0.800	1.9	25.0
Chrysene	1.177	1.200	0.700	2.0	25.0
bis(2-Ethylhexyl)phthalate	0.968	1.046		8.1	
Di-n-octylphthalate	1.758	2.028		15.4	
Benzo(b)fluoranthene	1.358	1.401	0.700	3.2	25.0
Benzo(k)fluoranthene	1.369	1.393	0.700	1.8	25.0
Benzo(a)pyrene	1.216	1.263	0.700	3.9	25.0
Indeno(1,2,3-cd)pyrene	1.232	1.276	0.500	3.6	25.0
Dibenzo(a,h)anthracene	1.228	1.257	0.400	2.4	25.0
Benzo(g,h,i)perylene	1.251	1.249	0.500	-0.2	25.0
Nitrobenzene-d5	0.368	0.370	0.200	0.5	25.0
2-Fluorobiphenyl	1.354	1.346	0.700	-0.6	25.0
Terphenyl-d14	0.973	1.017	0.500	4.5	25.0
Phenol-d5	1.619	1.651	0.800	2.0	25.0
2-Fluorophenol	1.256	1.284	0.600	2.2	25.0
2,4,6-Tribromophenol	0.076	0.084		10.5	
2-Chlorophenol-d4	1.320	1.350	0.800	2.3	25.0
1,2-Dichlorobenzene-d4	0.925	0.932	0.500	0.8	25.0

(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.: 71643

Instrument ID: S3 Calibration Date: 10/24/00 Time: 0913

Lab File ID: S3A6005 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503F Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Benzaldehyde	1.094	1.038		-5.1	
Phenol	1.721	1.775	0.800	3.1	25.0
bis(2-Chloroethyl)Ether	1.355	1.357	0.700	0.1	25.0
2-Chlorophenol	1.364	1.404	0.800	2.9	25.0
2-Methylphenol	1.243	1.291	0.700	3.9	25.0
2,2'-oxybis(1-Chloropropane)	2.091	1.999		-4.4	
Acetophenone	1.856	1.872		0.9	
4-Methylphenol	1.303	1.341	0.600	2.9	25.0
N-Nitroso-di-n-propylamine	0.845	0.919	0.500	8.8	25.0
Hexachloroethane	0.521	0.526	0.300	1.0	25.0
Nitrobenzene	0.387	0.385	0.200	-0.5	25.0
Isophorone	0.682	0.687	0.400	0.7	25.0
2-Nitrophenol	0.168	0.198	0.100	17.9	25.0
2,4-Dimethylphenol	0.301	0.266	0.200	-11.6	25.0
bis(2-Chloroethoxy)methane	0.432	0.425	0.300	-1.6	25.0
2,4-Dichlorophenol	0.270	0.283	0.200	4.8	25.0
Naphthalene	1.086	1.084	0.700	-0.2	25.0
4-Chloroaniline	0.130	0.138		6.2	
Hexachlorobutadiene	0.134	0.129		-3.7	
Caprolactam	0.123	0.131		6.5	
4-Chloro-3-Methylphenol	0.291	0.306	0.200	5.2	25.0
2-Methylnaphthalene	0.699	0.701	0.400	0.3	25.0
Hexachlorocyclopentadiene	0.251	0.197		-21.5	
2,4,6-Trichlorophenol	0.315	0.331	0.200	5.1	25.0
2,4,5-Trichlorophenol	0.347	0.355	0.200	2.3	25.0
1,1'-Biphenyl	1.537	1.525		-0.8	
2-Chloronaphthalene	1.106	1.107	0.800	0.1	25.0
2-Nitroaniline	0.352	0.372		5.7	
Dimethylphthalate	1.234	1.254		1.6	
2,6-Dinitrotoluene	0.258	0.296	0.200	14.7	25.0
Acenaphthylene	1.762	1.783	0.900	1.2	25.0
3-Nitroaniline	0.271	0.299		10.3	
Acenaphthene	1.172	1.168	0.900	-0.3	25.0
2,4-Dinitrophenol	0.088	0.137		55.7	
4-Nitrophenol	0.141	0.151		7.1	
Dibenzofuran	1.629	1.644	0.800	0.9	25.0

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.: 71643

Instrument ID: S3 Calibration Date: 10/24/00 Time: 0913

Lab File ID: S3A6005 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503F Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
2,4-Dinitrotoluene	0.348	0.404	0.200	16.1	25.0
Diethylphthalate	1.227	1.255		2.3	
Fluorene	1.315	1.333	0.900	1.4	25.0
4-Chlorophenyl-phenylether	0.571	0.580	0.400	1.6	25.0
4-Nitroaniline	0.329	0.347		5.5	
4,6-Dinitro-2-methylphenol	0.095	0.128		34.7	
N-Nitrosodiphenylamine (1)	0.392	0.405		3.3	
4-Bromophenyl-phenylether	0.179	0.178	0.100	-0.6	25.0
Hexachlorobenzene	0.176	0.179	0.100	1.7	25.0
Atrazine	0.138	0.144		4.3	
Pentachlorophenol	0.111	0.110	0.050	-0.9	25.0
Phenanthrene	1.156	1.179	0.700	2.0	25.0
Anthracene	1.154	1.165	0.700	1.0	25.0
Carbazole	1.058	1.105		4.4	
Di-n-butylphthalate	1.289	1.366		6.0	
Fluoranthene	1.149	1.185	0.600	3.1	25.0
Pyrene	1.446	1.460	0.600	1.0	25.0
Butylbenzylphthalate	0.687	0.722		5.1	
3,3'-Dichlorobenzidine	0.314	0.305		-2.9	
Benzo(a)anthracene	1.251	1.273	0.800	1.8	25.0
Chrysene	1.177	1.189	0.700	1.0	25.0
bis(2-Ethylhexyl)phthalate	0.968	1.016		5.0	
Di-n-octylphthalate	1.758	1.959		11.4	
Benzo(b)fluoranthene	1.358	1.403	0.700	3.3	25.0
Benzo(k)fluoranthene	1.369	1.387	0.700	1.3	25.0
Benzo(a)pyrene	1.216	1.256	0.700	3.3	25.0
Indeno(1,2,3-cd)pyrene	1.232	1.355	0.500	10.0	25.0
Dibenzo(a,h)anthracene	1.228	1.293	0.400	5.3	25.0
Benzo(g,h,i)perylene	1.251	1.279	0.500	2.2	25.0
Nitrobenzene-d5	0.368	0.378	0.200	2.7	25.0
2-Fluorobiphenyl	1.354	1.342	0.700	-0.9	25.0
Terphenyl-d14	0.973	0.998	0.500	2.6	25.0
Phenol-d5	1.619	1.690	0.800	4.4	25.0
2-Fluorophenol	1.256	1.283	0.600	2.1	25.0
2,4,6-Tribromophenol	0.076	0.085		11.8	
2-Chlorophenol-d4	1.320	1.364	0.800	3.3	25.0
1,2-Dichlorobenzene-d4	0.925	0.946	0.500	2.3	25.0

(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.: 71643

Instrument ID: S3 Calibration Date: 10/25/00 Time: 1405

Lab File ID: S3A6039 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503J Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Benzaldehyde	1.094	1.254		14.6		
Phenol	1.721	1.925	0.800	11.9	25.0	
bis(2-Chloroethyl)Ether	1.355	1.491	0.700	10.0	25.0	
2-Chlorophenol	1.364	1.569	0.800	15.0	25.0	
2-Methylphenol	1.243	1.347	0.700	8.4	25.0	
2,2'-oxybis(1-Chloropropane)	2.091	2.246		7.4		
Acetophenone	1.856	2.013		8.5		
4-Methylphenol	1.303	1.430	0.600	9.7	25.0	
N-Nitroso-di-n-propylamine	0.845	0.935	0.500	10.7	25.0	
Hexachloroethane	0.521	0.598	0.300	14.8	25.0	
Nitrobenzene	0.387	0.442	0.200	14.2	25.0	
Isophorone	0.682	0.762	0.400	11.7	25.0	
2-Nitrophenol	0.168	0.225	0.100	33.9	25.0	<-
2,4-Dimethylphenol	0.301	0.316	0.200	5.0	25.0	
bis(2-Chloroethoxy)methane	0.432	0.494	0.300	14.4	25.0	
2,4-Dichlorophenol	0.270	0.318	0.200	17.8	25.0	
Naphthalene	1.086	1.251	0.700	15.2	25.0	
4-Chloroaniline	0.130	0.154		18.5		
Hexachlorobutadiene	0.134	0.154		14.9		
Caprolactam	0.123	0.139		13.0		
4-Chloro-3-Methylphenol	0.291	0.327	0.200	12.4	25.0	
2-Methylnaphthalene	0.699	0.790	0.400	13.0	25.0	
Hexachlorocyclopentadiene	0.251	0.270		7.6		
2,4,6-Trichlorophenol	0.315	0.390	0.200	23.8	25.0	
2,4,5-Trichlorophenol	0.347	0.414	0.200	19.3	25.0	
1,1'-Biphenyl	1.537	1.781		15.9		
2-Chloronaphthalene	1.106	1.292	0.800	16.8	25.0	
2-Nitroaniline	0.352	0.407		15.6		
Dimethylphthalate	1.234	1.428		15.7		
2,6-Dinitrotoluene	0.258	0.342	0.200	32.6	25.0	<-
Acenaphthylene	1.762	2.005	0.900	13.8	25.0	
3-Nitroaniline	0.271	0.328		21.0		
Acenaphthene	1.172	1.325	0.900	13.1	25.0	
2,4-Dinitrophenol	0.088	0.159		80.7		
4-Nitrophenol	0.141	0.166		17.7		
Dibenzofuran	1.629	1.854	0.800	13.8	25.0	

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.: 71643

Instrument ID: S3 Calibration Date: 10/25/00 Time: 1405

Lab File ID: S3A6039 Init. Calib. Date(s): 10/20/00 10/21/00

EPA Sample No.(SSTD050##): SSTD0503J Init. Calib. Times: 2000 0238

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
2,4-Dinitrotoluene	0.348	0.456	0.200	31.0	25.0	<-
Diethylphthalate	1.227	1.412		15.1		
Fluorene	1.315	1.498	0.900	13.9	25.0	
4-Chlorophenyl-phenylether	0.571	0.679	0.400	18.9	25.0	
4-Nitroaniline	0.329	0.383		16.4		
4,6-Dinitro-2-methylphenol	0.095	0.150		57.9		
N-Nitrosodiphenylamine (1)	0.392	0.459		17.1		
4-Bromophenyl-phenylether	0.179	0.216	0.100	20.7	25.0	
Hexachlorobenzene	0.176	0.211	0.100	19.9	25.0	
Atrazine	0.138	0.169		22.5		
Pentachlorophenol	0.111	0.133	0.050	19.8	25.0	
Phenanthrene	1.156	1.350	0.700	16.8	25.0	
Anthracene	1.154	1.336	0.700	15.8	25.0	
Carbazole	1.058	1.248		18.0		
Di-n-butylphthalate	1.289	1.542		19.6		
Fluoranthene	1.149	1.339	0.600	16.5	25.0	
Pyrene	1.446	1.719	0.600	18.9	25.0	
Butylbenzylphthalate	0.687	0.832		21.1		
3,3'-Dichlorobenzidine	0.314	0.392		24.8		
Benzo(a)anthracene	1.251	1.491	0.800	19.2	25.0	
Chrysene	1.177	1.392	0.700	18.3	25.0	
bis(2-Ethylhexyl)phthalate	0.968	1.210		25.0		
Di-n-octylphthalate	1.758	2.291		30.3		
Benzo(b)fluoranthene	1.358	1.638	0.700	20.6	25.0	
Benzo(k)fluoranthene	1.369	1.625	0.700	18.7	25.0	
Benzo(a)pyrene	1.216	1.456	0.700	19.7	25.0	
Indeno(1,2,3-cd)pyrene	1.232	1.482	0.500	20.3	25.0	
Dibenzo(a,h)anthracene	1.228	1.477	0.400	20.3	25.0	
Benzo(g,h,i)perylene	1.251	1.457	0.500	16.5	25.0	
Nitrobenzene-d5	0.368	0.427	0.200	16.0	25.0	
2-Fluorobiphenyl	1.354	1.565	0.700	15.6	25.0	
Terphenyl-d14	0.973	1.175	0.500	20.8	25.0	
Phenol-d5	1.619	1.854	0.800	14.5	25.0	
2-Fluorophenol	1.256	1.453	0.600	15.7	25.0	
2,4,6-Tribromophenol	0.076	0.098		28.9		
2-Chlorophenol-d4	1.320	1.526	0.800	15.6	25.0	
1,2-Dichlorobenzene-d4	0.925	1.080	0.500	16.8	25.0	

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

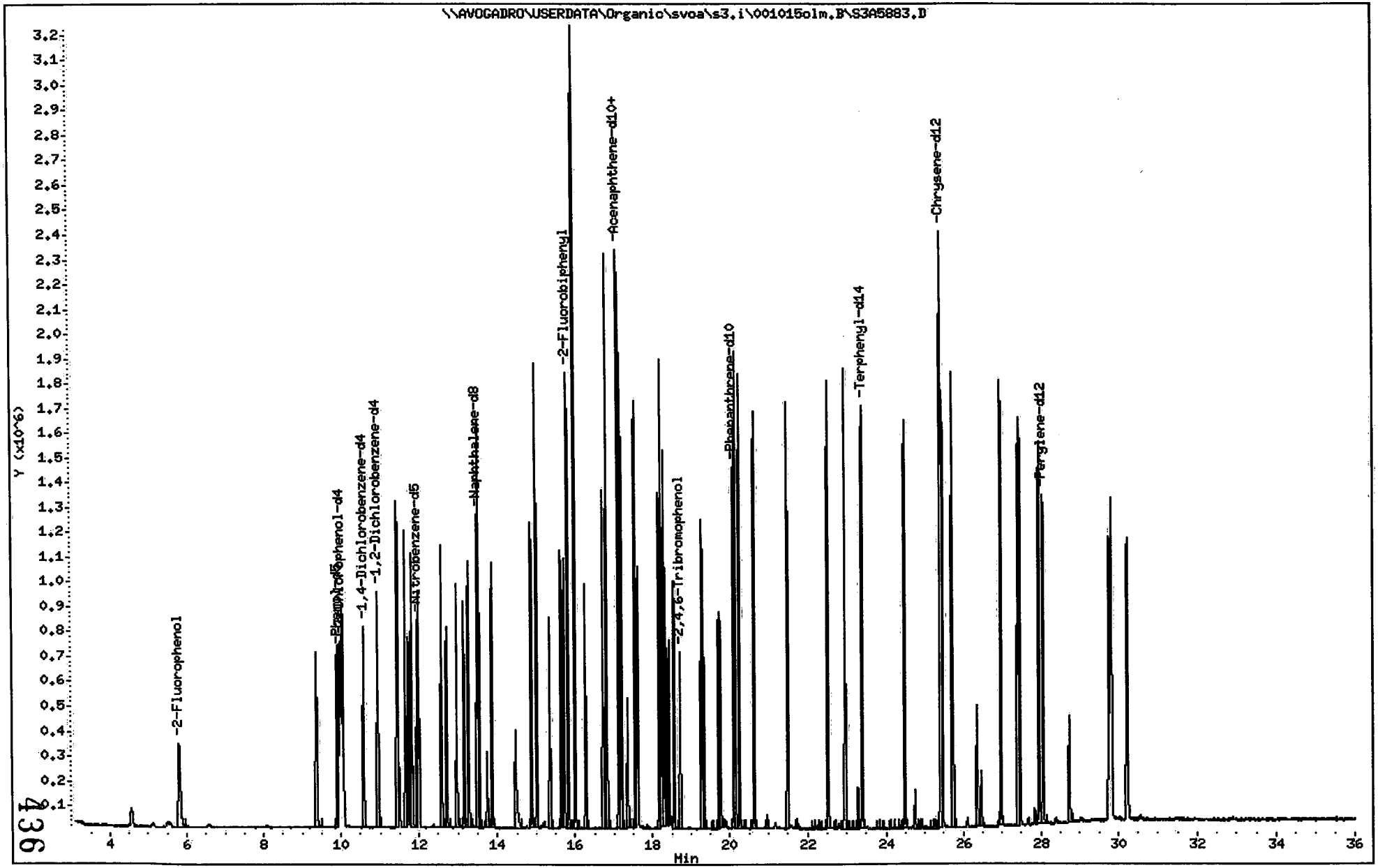
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5883.D
Date : 15-OCT-2000 17:44
Client ID: SSTD0503U
Sample Info: SS1015C,SSTD0503U

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5883.D
Report Date: 15-Oct-2000 18:22

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5883.D
Lab Smp Id: SS1015C Client Smp ID: SSTD0503U
Inj Date : 15-OCT-2000 17:44
Operator : QY Inst ID: s3.i
Smp Info : SS1015C,SSTD0503U
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\s3_olm4_1.m
Meth Date : 15-Oct-2000 18:21 mtl Quant Type: ISTD
Cal Date : 15-OCT-2000 17:44 Cal File: S3A5883.D
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	5.806	5.806	(0.548)	378325	50.0000	50
2 Benzaldehyde	77	9.373	9.373	(0.885)	330024	50.0000	56
$ 3 Phenol-d5	99	9.913	9.913	(0.936)	453133	50.0000	48
4 Phenol	94	9.945	9.945	(0.939)	480749	50.0000	49
5 bis(2-Chloroethyl)Ether	93	10.062	10.062	(0.951)	369182	50.0000	49
$ 6 2-Chlorophenol-d4	132	9.993	9.993	(0.944)	409864	50.0000	49
7 2-Chlorophenol	128	10.041	10.041	(0.949)	412056	50.0000	51
* 8 1,4-Dichlorobenzene-d4	152	10.586	10.586	(1.000)	237774	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.944	10.944	(1.034)	276309	50.0000	51
10 2-Methylphenol	108	11.446	11.446	(1.081)	360159	50.0000	50
11 2,2'-oxybis(1-Chloropropane)	45	11.440	11.440	(1.081)	414269	50.0000	44(M)
12 4-Methylphenol	108	11.820	11.820	(1.117)	372655	50.0000	49
13 Acetophenone	105	11.649	11.649	(1.100)	563168	50.0000	51
14 N-Nitroso-di-n-propylamine	70	11.729	11.729	(1.108)	268836	50.0000	52
15 Hexachloroethane	117	11.766	11.766	(1.112)	175257	50.0000	54
$ 16 Nitrobenzene-d5	82	11.953	11.953	(0.886)	459357	50.0000	52
17 Nitrobenzene	77	11.996	11.996	(0.889)	466033	50.0000	51
18 Isophorone	82	12.583	12.583	(0.932)	773370	50.0000	48
19 2-Nitrophenol	139	12.717	12.717	(0.942)	227680	50.0000	47
20 2,4-Dimethylphenol	107	12.973	12.973	(0.961)	323282	50.0000	47
21 bis(2-Chloroethoxy)methane	93	13.160	13.160	(0.975)	456505	50.0000	47
22 2,4-Dichlorophenol	162	13.278	13.278	(0.984)	334420	50.0000	47
* 23 Naphthalene-d8	136	13.497	13.497	(1.000)	946128	40.0000	
24 Naphthalene	128	13.540	13.540	(1.003)	1227373	50.0000	48
25 4-Chloroaniline	127	13.748	13.748	(1.019)	130148	50.0000	55
26 Hexachlorobutadiene	225	13.876	13.876	(1.028)	185614	50.0000	50

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Data File: S3A5883.D
Report Date: 15-Oct-2000 18:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	14.485	14.485	(1.073)	129562	50.0000	46
	28 4-Chloro-3-Methylphenol	107	14.880	14.880	(1.102)	358158	50.0000	49
	29 2-Methylnaphthalene	142	15.019	15.019	(1.113)	788795	50.0000	47
	30 Hexachlorocyclopentadiene	237	15.361	15.361	(0.897)	200027	50.0000	46
	31 2,4,6-Trichlorophenol	196	15.655	15.655	(0.914)	222314	50.0000	46
	32 2,4,5-Trichlorophenol	196	15.735	15.735	(0.919)	245976	50.0000	46
$	33 2-Fluorobiphenyl	172	15.831	15.831	(0.925)	871860	50.0000	47
	34 1,1'-Biphenyl	154	16.012	16.012	(0.935)	989509	50.0000	46
	35 2-Chloronaphthalene	162	16.007	16.007	(0.935)	738309	50.0000	46
	36 2-Nitroaniline	65	16.279	16.279	(0.951)	251678	50.0000	50
	37 Dimethylphthalate	163	16.728	16.728	(0.977)	867865	50.0000	46
	38 2,6-Dinitrotoluene	165	16.819	16.819	(0.982)	203513	50.0000	46
	39 Acenaphthylene	152	16.830	16.830	(0.983)	1129950	50.0000	46
	40 3-Nitroaniline	138	17.123	17.123	(1.000)	199074	50.0000	43
*	41 Acenaphthene-d10	164	17.123	17.123	(1.000)	570614	40.0000	
	42 Acenaphthene	153	17.187	17.187	(1.004)	759860	50.0000	46
	43 2,4-Dinitrophenol	184	17.353	17.353	(1.013)	112647	50.0000	47
	44 4-Nitrophenol	109	17.588	17.588	(1.027)	138638	50.0000	56
	45 2,4-Dinitrotoluene	165	17.620	17.620	(1.029)	285132	50.0000	45
	46 Dibenzofuran	168	17.551	17.551	(1.025)	1053316	50.0000	45
	47 Diethylphthalate	149	18.176	18.176	(1.061)	877626	50.0000	47
	48 4-Chlorophenyl-phenylether	204	18.309	18.309	(1.069)	370966	50.0000	44
	49 Fluorene	166	18.240	18.240	(1.065)	856880	50.0000	44
	50 4-Nitroaniline	138	18.352	18.352	(1.072)	213625	50.0000	40
	51 4,6-Dinitro-2-methylphenol	198	18.427	18.427	(0.917)	158341	50.0000	49
	52 N-Nitrosodiphenylamine (1)	169	18.560	18.560	(0.923)	391758	50.0000	49
$	53 2,4,6-Tribromophenol	330	18.726	18.726	(0.931)	102355	50.0000	53
	54 4-Bromophenyl-phenylether	248	19.281	19.281	(0.959)	198233	50.0000	46
	55 Hexachlorobenzene	284	19.329	19.329	(0.961)	207920	50.0000	48
	56 Atrazine	200	19.724	19.724	(0.981)	160007	50.0000	54
	57 Pentachlorophenol	266	19.767	19.767	(0.983)	131406	50.0000	46
*	58 Phenanthrene-d10	188	20.104	20.104	(1.000)	868441	40.0000	
	59 Phenanthrene	178	20.152	20.152	(1.002)	1198684	50.0000	47
	60 Anthracene	178	20.253	20.253	(1.007)	1185929	50.0000	46
	61 Carbazole	167	20.632	20.632	(1.026)	1092058	50.0000	45
	62 Di-n-butylphthalate	149	21.498	21.498	(1.069)	1481616	50.0000	50
	63 Fluoranthene	202	22.534	22.534	(1.121)	1177376	50.0000	46
	64 Pyrene	202	22.966	22.966	(0.904)	1210347	50.0000	47
$	65 Terphenyl-d14	244	23.404	23.404	(0.921)	865824	50.0000	48
	66 Butylbenzylphthalate	149	24.489	24.489	(0.963)	677408	50.0000	51
	67 3,3'-Dichlorobenzidine	252	25.434	25.434	(1.001)	312614	50.0000	47
	68 bis(2-Ethylhexyl)phthalate	149	25.722	25.722	(1.012)	949490	50.0000	51
	69 Benzo(a)anthracene	228	25.397	25.397	(0.999)	1090619	50.0000	45
*	70 Chrysene-d12	240	25.418	25.418	(1.000)	755979	40.0000	
	71 Chrysene	228	25.466	25.466	(1.002)	1022166	50.0000	46
	72 Di-n-octylphthalate	149	26.972	26.972	(0.961)	1540967	50.0000	52
	73 Benzo(b)fluoranthene	252	27.410	27.410	(0.977)	1050012	50.0000	45

Data File: S3A5883.D
Report Date: 15-Oct-2000 18:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	27.464	27.464	(0.979)	1083190	50.0000	45
75 Benzo(a)pyrene	252	27.960	27.960	(0.997)	930499	50.0000	44
* 76 Perylene-d12	264	28.057	28.057	(1.000)	685248	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.782	29.782	(1.061)	931671	50.0000	42
78 Dibenzo(a,h)anthracene	278	29.830	29.830	(1.063)	950655	50.0000	43
79 Benzo(g,h,i)perylene	276	30.236	30.236	(1.078)	974332	50.0000	44

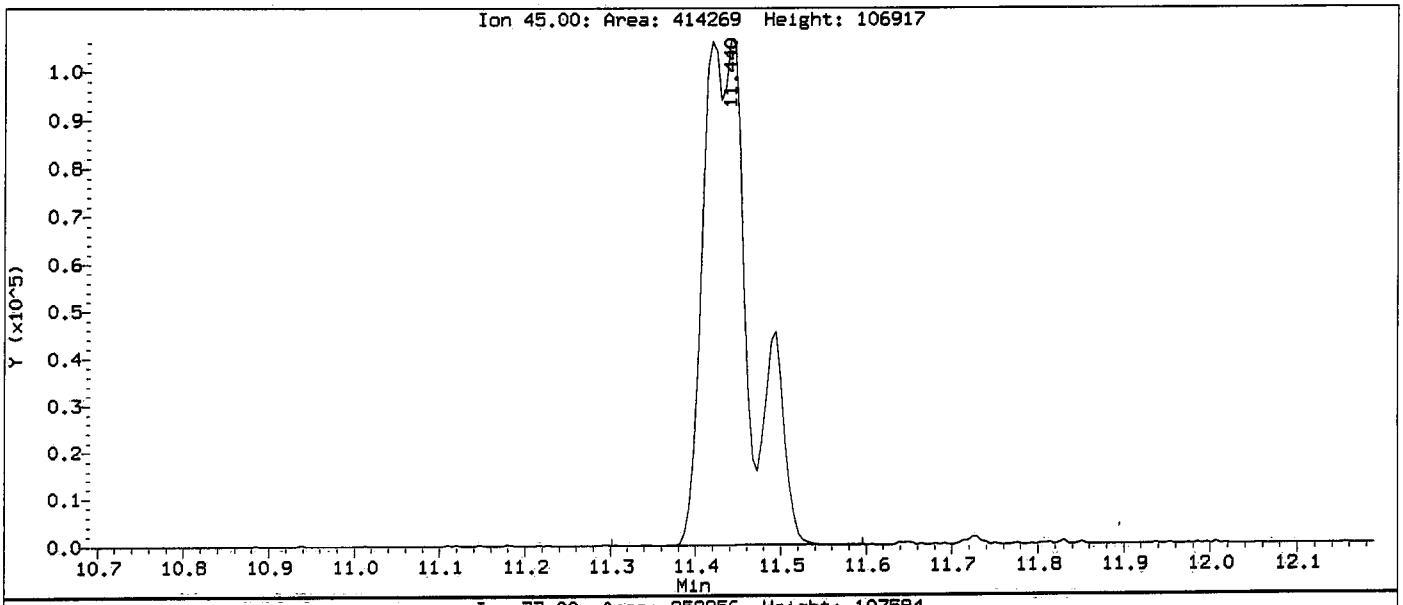
10/26/00

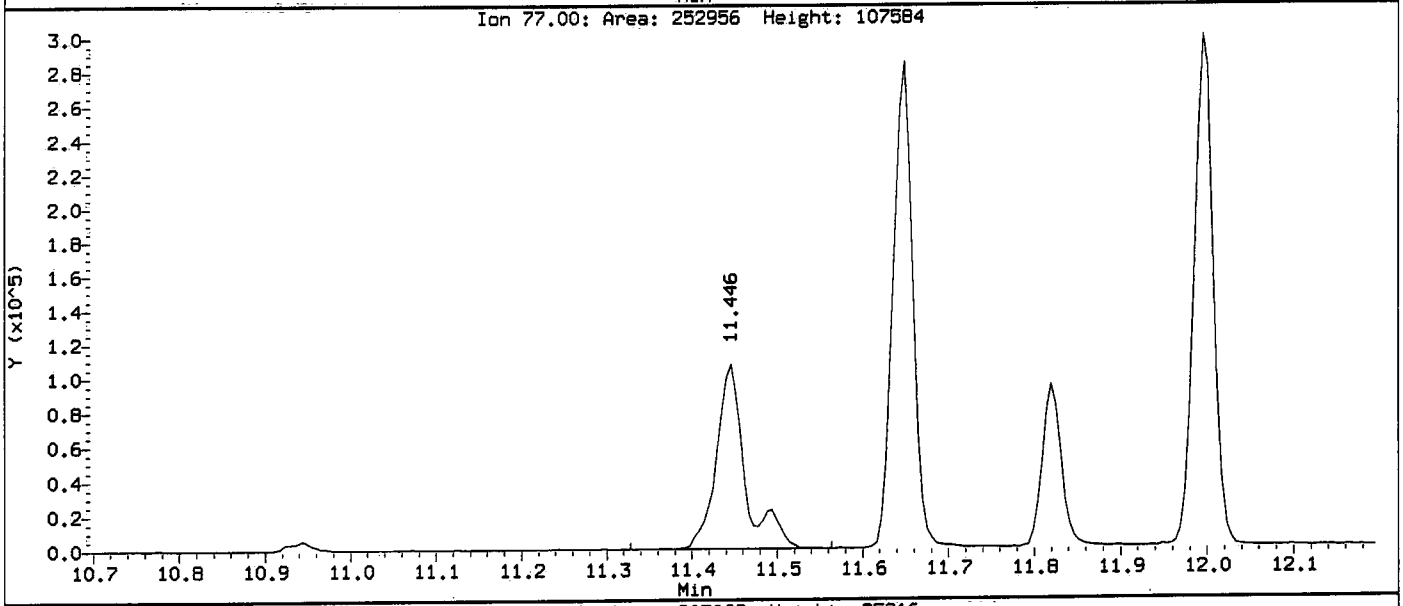
QC Flag Legend

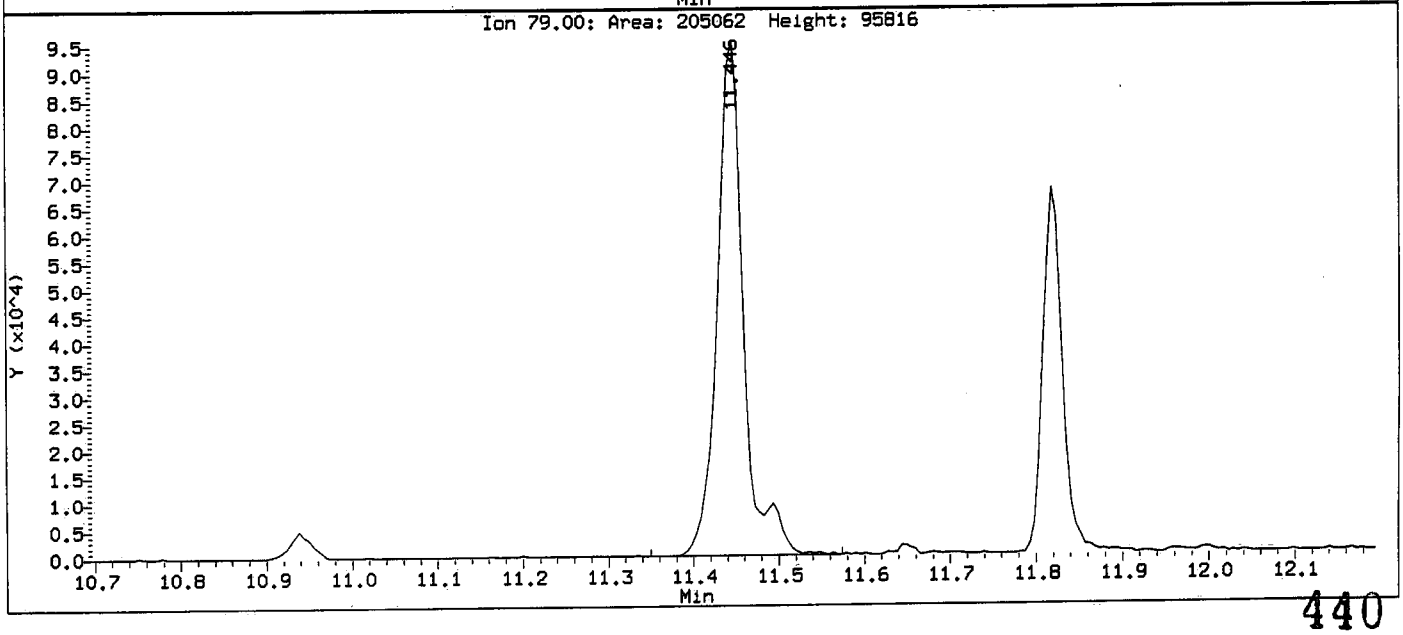
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5883.D
Injection Date: 15-OCT-2000 17:44
Instrument: s3.i
Client Sample ID: SSTD0503U

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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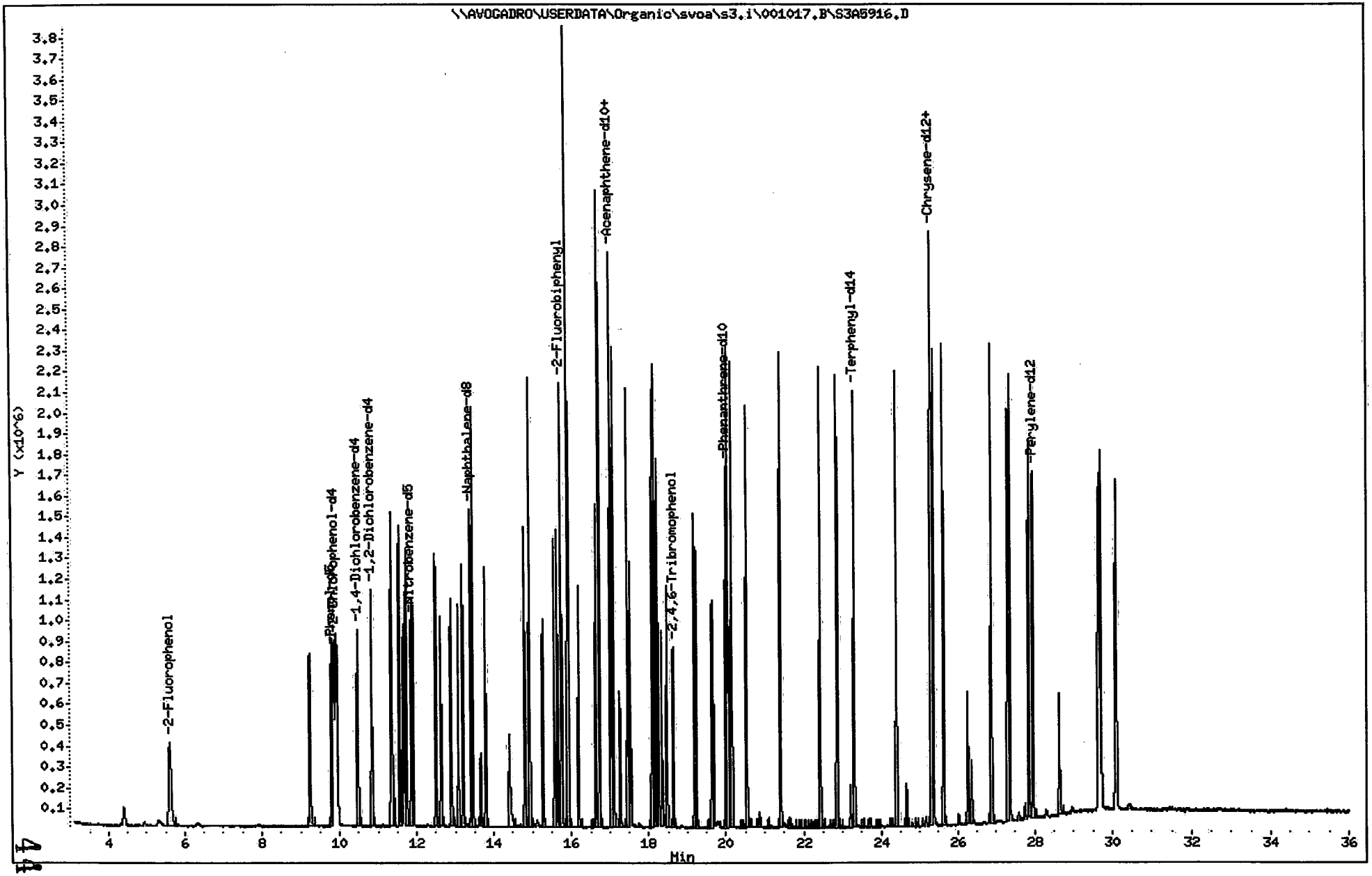
Date : 17-OCT-2000 10:21
Client ID: SSTD0503X
Sample Info: SS1017A,SSTD0503X

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5916.D
Report Date: 17-Oct-2000 10:57

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5916.D
Lab Smp Id: SS1017A Client Smp ID: SSTD0503X
Inj Date : 17-OCT-2000 10:21
Operator : QY Inst ID: s3.i
Smp Info : SS1017A,SSTD0503X
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 25 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	5.615	5.615	(0.536)	463271	50.0000	51(M)
2 Benzaldehyde	77	9.247	9.247	(0.882)	402033	50.0000	56
$ 3 Phenol-d5	99	9.807	9.807	(0.936)	550333	50.0000	48
4 Phenol	94	9.845	9.845	(0.939)	582039	50.0000	49
5 bis(2-Chloroethyl)Ether	93	9.957	9.957	(0.950)	442976	50.0000	49
$ 6 2-Chlorophenol-d4	132	9.882	9.882	(0.943)	490131	50.0000	49
7 2-Chlorophenol	128	9.925	9.925	(0.947)	499026	50.0000	51
* 8 1,4-Dichlorobenzene-d4	152	10.480	10.480	(1.000)	286805	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.844	10.844	(1.035)	333202	50.0000	51
10 2-Methylphenol	108	11.362	11.362	(1.084)	423957	50.0000	49
11 2,2'-oxybis(1-Chloropropane)	45	11.356	11.356	(1.084)	494465	50.0000	44(M)
12 4-Methylphenol	108	11.741	11.741	(1.120)	441230	50.0000	48
13 Acetophenone	105	11.559	11.559	(1.103)	671124	50.0000	51
14 N-Nitroso-di-n-propylamine	70	11.645	11.645	(1.111)	309973	50.0000	50
15 Hexachloroethane	117	11.671	11.671	(1.114)	212076	50.0000	54
$ 16 Nitrobenzene-d5	82	11.864	11.864	(0.885)	551106	50.0000	53
17 Nitrobenzene	77	11.906	11.906	(0.888)	554257	50.0000	51
18 Isophorone	82	12.499	12.499	(0.932)	920235	50.0000	49
19 2-Nitrophenol	139	12.633	12.633	(0.942)	272404	50.0000	48
20 2,4-Dimethylphenol	107	12.895	12.895	(0.961)	379689	50.0000	47
21 bis(2-Chloroethoxy)methane	93	13.081	13.081	(0.975)	537229	50.0000	47
22 2,4-Dichlorophenol	162	13.199	13.199	(0.984)	397236	50.0000	47
* 23 Naphthalene-d8	136	13.413	13.413	(1.000)	1120042	40.0000	
24 Naphthalene	128	13.455	13.455	(1.003)	1462500	50.0000	48
25 4-Chloroaniline	127	13.664	13.664	(1.019)	152907	50.0000	55
26 Hexachlorobutadiene	225	13.792	13.792	(1.028)	215628	50.0000	49

10/26/00

Data File: S3A5916.D
Report Date: 17-Oct-2000 10:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	14.417	14.417	(1.075)	153411	50.0000	46
	28 4-Chloro-3-Methylphenol	107	14.807	14.807	(1.104)	430859	50.0000	50
	29 2-Methylnaphthalene	142	14.935	14.935	(1.113)	929198	50.0000	46
	30 Hexachlorocyclopentadiene	237	15.277	15.277	(0.897)	229567	50.0000	45
	31 2,4,6-Trichlorophenol	196	15.576	15.576	(0.914)	268066	50.0000	47
	32 2,4,5-Trichlorophenol	196	15.651	15.651	(0.919)	289426	50.0000	46
$	33 2-Fluorobiphenyl	172	15.747	15.747	(0.924)	1028484	50.0000	47
	34 1,1'-Biphenyl	154	15.928	15.928	(0.935)	1158783	50.0000	47
	35 2-Chloronaphthalene	162	15.918	15.918	(0.934)	881888	50.0000	47
	36 2-Nitroaniline	65	16.195	16.195	(0.950)	302241	50.0000	51
	37 Dimethylphthalate	163	16.649	16.649	(0.977)	1041818	50.0000	48
	38 2,6-Dinitrotoluene	165	16.735	16.735	(0.982)	243839	50.0000	47
	39 Acenaphthylene	152	16.740	16.740	(0.982)	1338047	50.0000	46
	40 3-Nitroaniline	138	17.039	17.039	(1.000)	240424	50.0000	45
*	41 Acenaphthene-d10	164	17.039	17.039	(1.000)	665037	40.0000	
	42 Acenaphthene	153	17.103	17.103	(1.004)	892206	50.0000	46
	43 2,4-Dinitrophenol	184	17.269	17.269	(1.013)	129847	50.0000	46
	44 4-Nitrophenol	109	17.509	17.509	(1.028)	174661	50.0000	60
	45 2,4-Dinitrotoluene	165	17.536	17.536	(1.029)	341608	50.0000	47
	46 Dibenzofuran	168	17.461	17.461	(1.025)	1246049	50.0000	45
	47 Diethylphthalate	149	18.097	18.097	(1.062)	1058671	50.0000	49
	48 4-Chlorophenyl-phenylether	204	18.220	18.220	(1.069)	441511	50.0000	45
	49 Fluorene	166	18.150	18.150	(1.065)	1005758	50.0000	45
	50 4-Nitroaniline	138	18.268	18.268	(1.072)	260188	50.0000	42
	51 4,6-Dinitro-2-methylphenol	198	18.342	18.342	(0.917)	186912	50.0000	48
	52 N-Nitrosodiphenylamine (1)	169	18.476	18.476	(0.923)	460713	50.0000	47
$	53 2,4,6-Tribromophenol	330	18.636	18.636	(0.931)	123450	50.0000	52
	54 4-Bromophenyl-phenylether	248	19.192	19.192	(0.959)	242504	50.0000	46
	55 Hexachlorobenzene	284	19.240	19.240	(0.962)	249896	50.0000	47
	56 Atrazine	200	19.640	19.640	(0.982)	194841	50.0000	54
	57 Pentachlorophenol	266	19.678	19.678	(0.983)	165602	50.0000	48
*	58 Phenanthrene-d10	188	20.009	20.009	(1.000)	1056364	40.0000	
	59 Phenanthrene	178	20.057	20.057	(1.002)	1443104	50.0000	46
	60 Anthracene	178	20.158	20.158	(1.007)	1416538	50.0000	46
	61 Carbazole	167	20.543	20.543	(1.027)	1327638	50.0000	45
	62 Di-n-butylphthalate	149	21.414	21.414	(1.070)	1857330	50.0000	52
	63 Fluoranthene	202	22.439	22.439	(1.121)	1437061	50.0000	46
	64 Pyrene	202	22.872	22.872	(0.903)	1503803	50.0000	46
$	65 Terphenyl-d14	244	23.310	23.310	(0.921)	1081593	50.0000	47
	66 Butylbenzylphthalate	149	24.399	24.399	(0.964)	853158	50.0000	50
	67 3,3'-Dichlorobenzidine	252	25.339	25.339	(1.001)	392160	50.0000	46
	68 bis(2-Ethylhexyl)phthalate	149	25.638	25.638	(1.013)	1204122	50.0000	50
	69 Benzo(a)anthracene	228	25.302	25.302	(0.999)	1388341	50.0000	45
*	70 Chrysene-d12	240	25.318	25.318	(1.000)	970501	40.0000	
	71 Chrysene	228	25.371	25.371	(1.002)	1306811	50.0000	45
	72 Di-n-octylphthalate	149	26.888	26.888	(0.962)	2041783	50.0000	53
	73 Benzo(b)fluoranthene	252	27.315	27.315	(0.977)	1362334	50.0000	45

Data File: S3A5916.D
Report Date: 17-Oct-2000 10:57

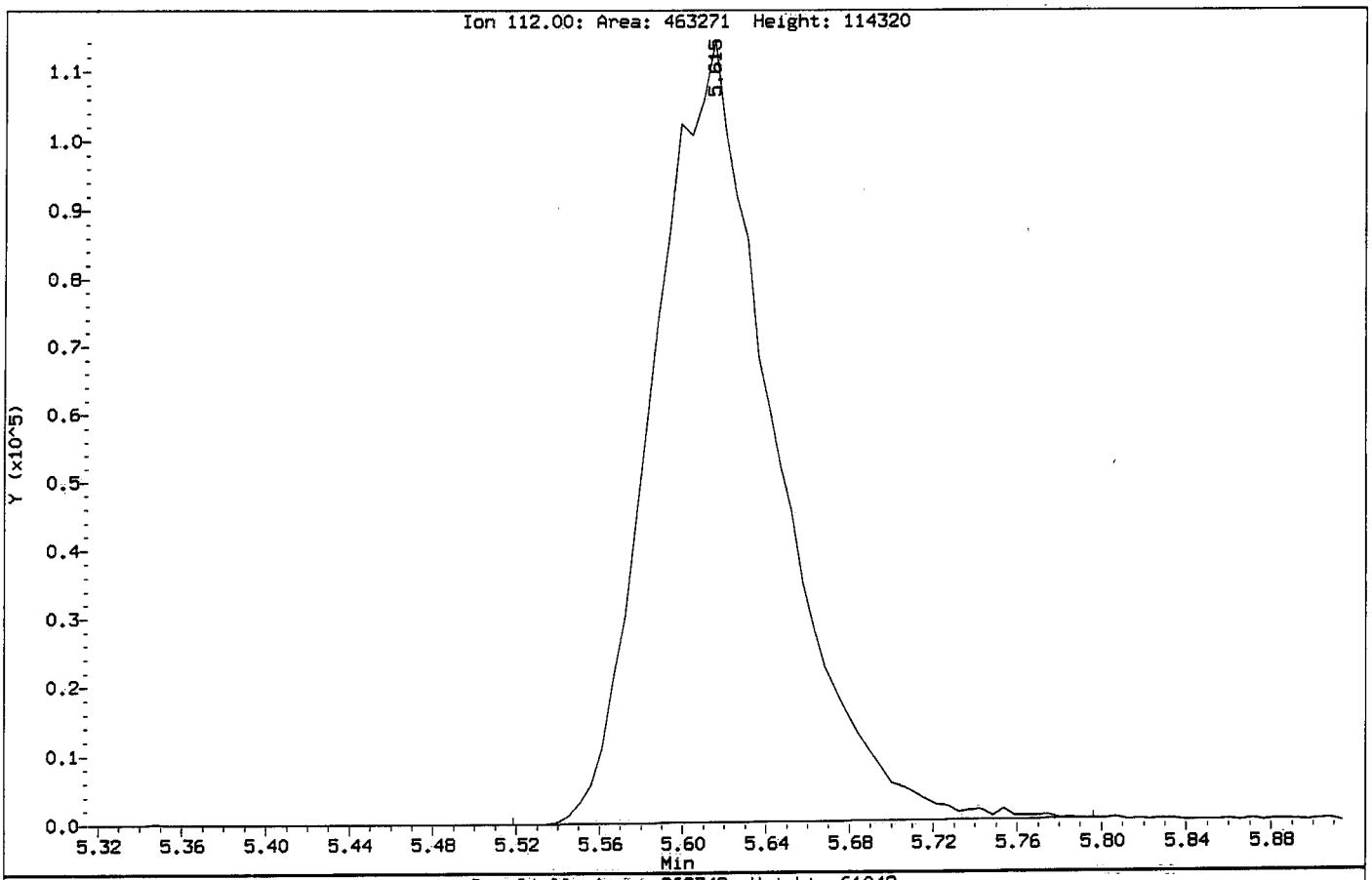
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	27.364	27.364	(0.979)	1431991	50.0000	46
75 Benzo(a)pyrene	252	27.860	27.860	(0.997)	1212443	50.0000	44
* 76 Perylene-d12	264	27.956	27.956	(1.000)	889014	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	29.660	29.660	(1.061)	1263473	50.0000	43
78 Dibenzo(a,h)anthracene	278	29.719	29.719	(1.063)	1315107	50.0000	46
79 Benzo(g,h,i)perylene	276	30.109	30.109	(1.077)	1311098	50.0000	46

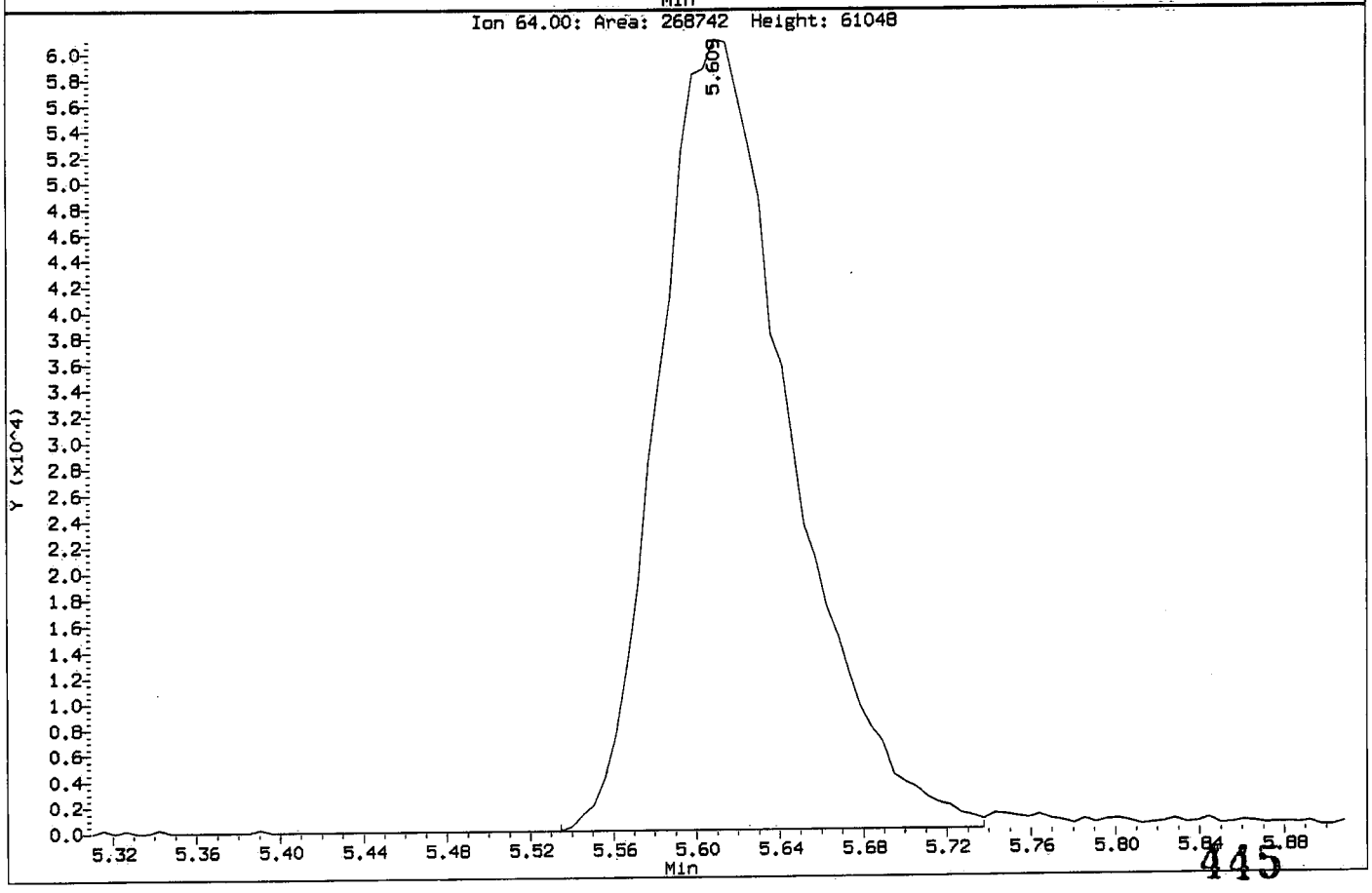
QC Flag Legend

M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5916.D
Injection Date: 17-OCT-2000 10:21
Instrument: s3.i
Client Sample ID: SSTD0503X

Compound: 2-Fluorophenol
CAS Number: 367-12-4





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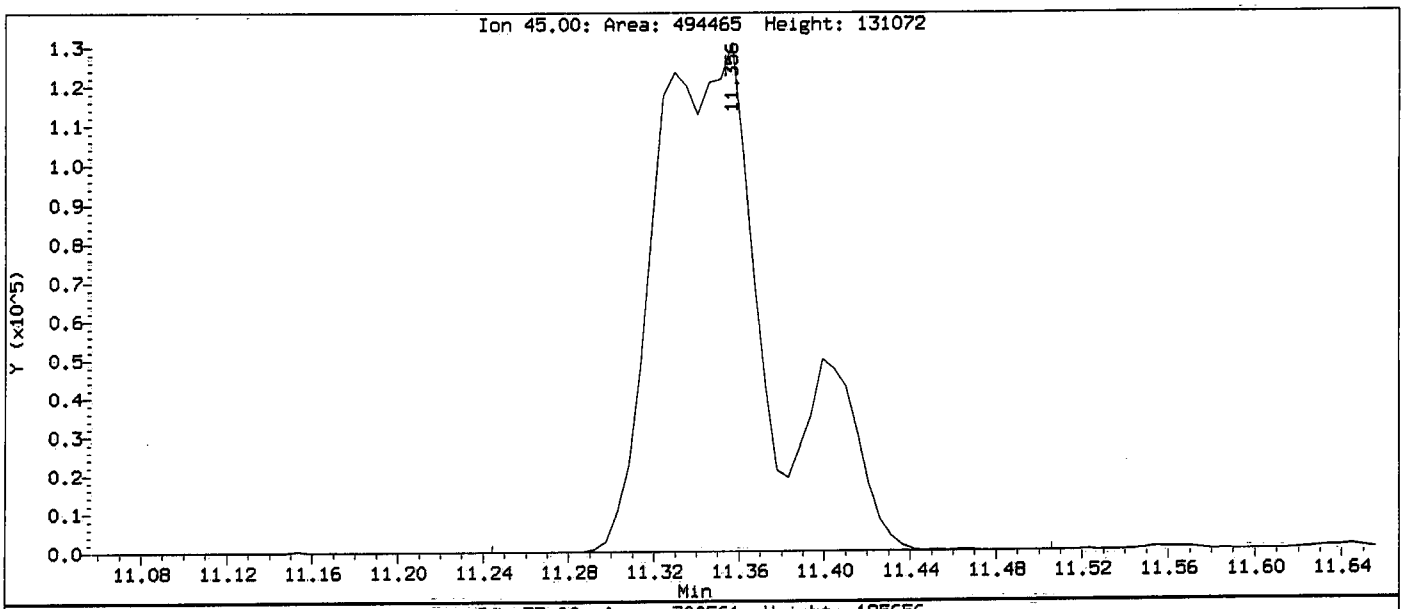
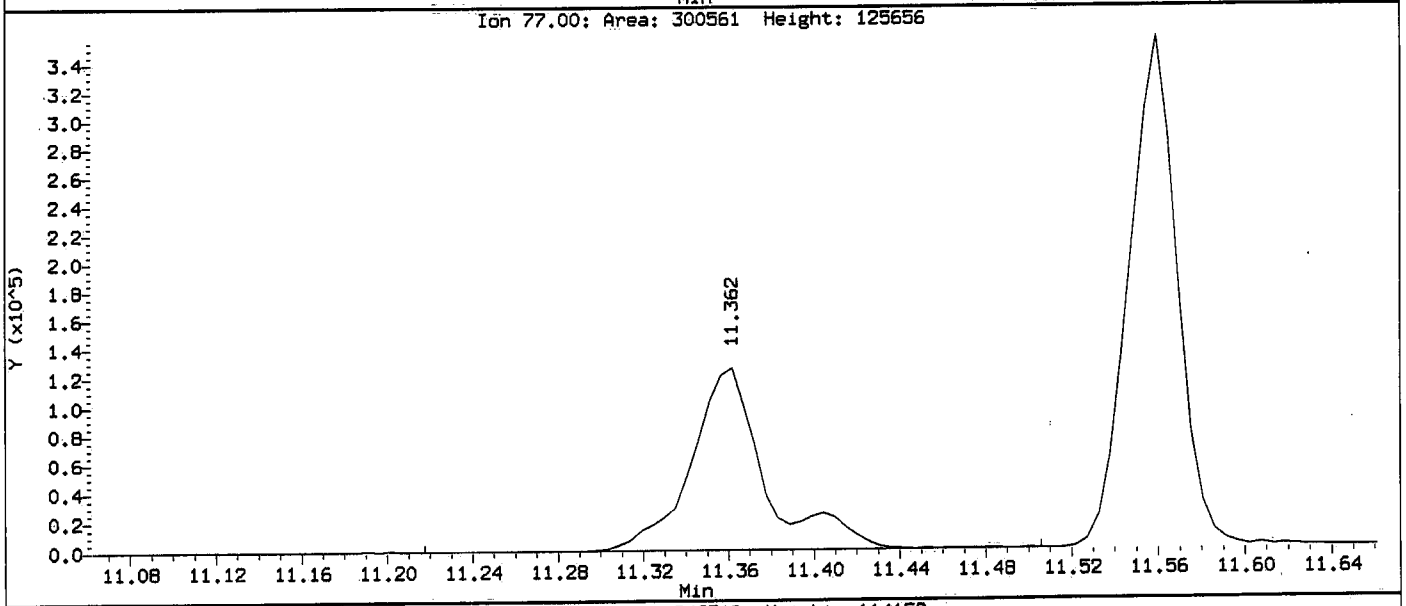
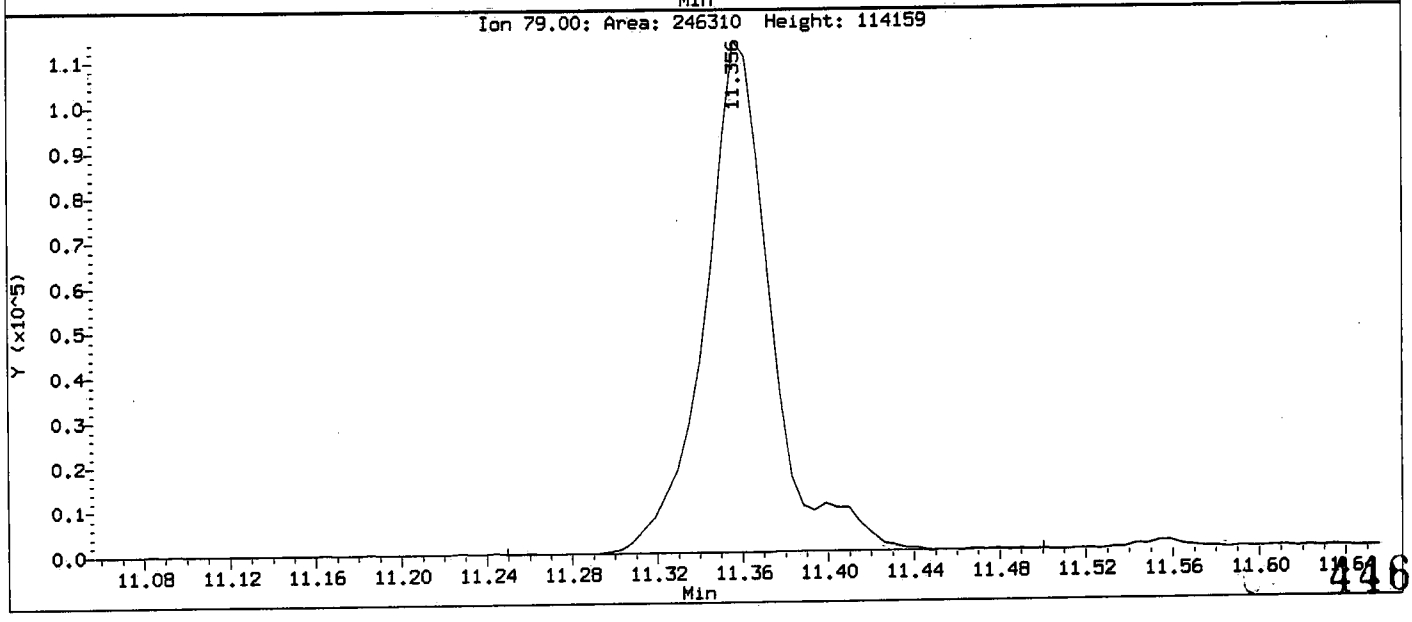
Injection Date: 17-OCT-2000 10:21
Instrument: s3.i
Client Sample ID: SSTD0503X

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







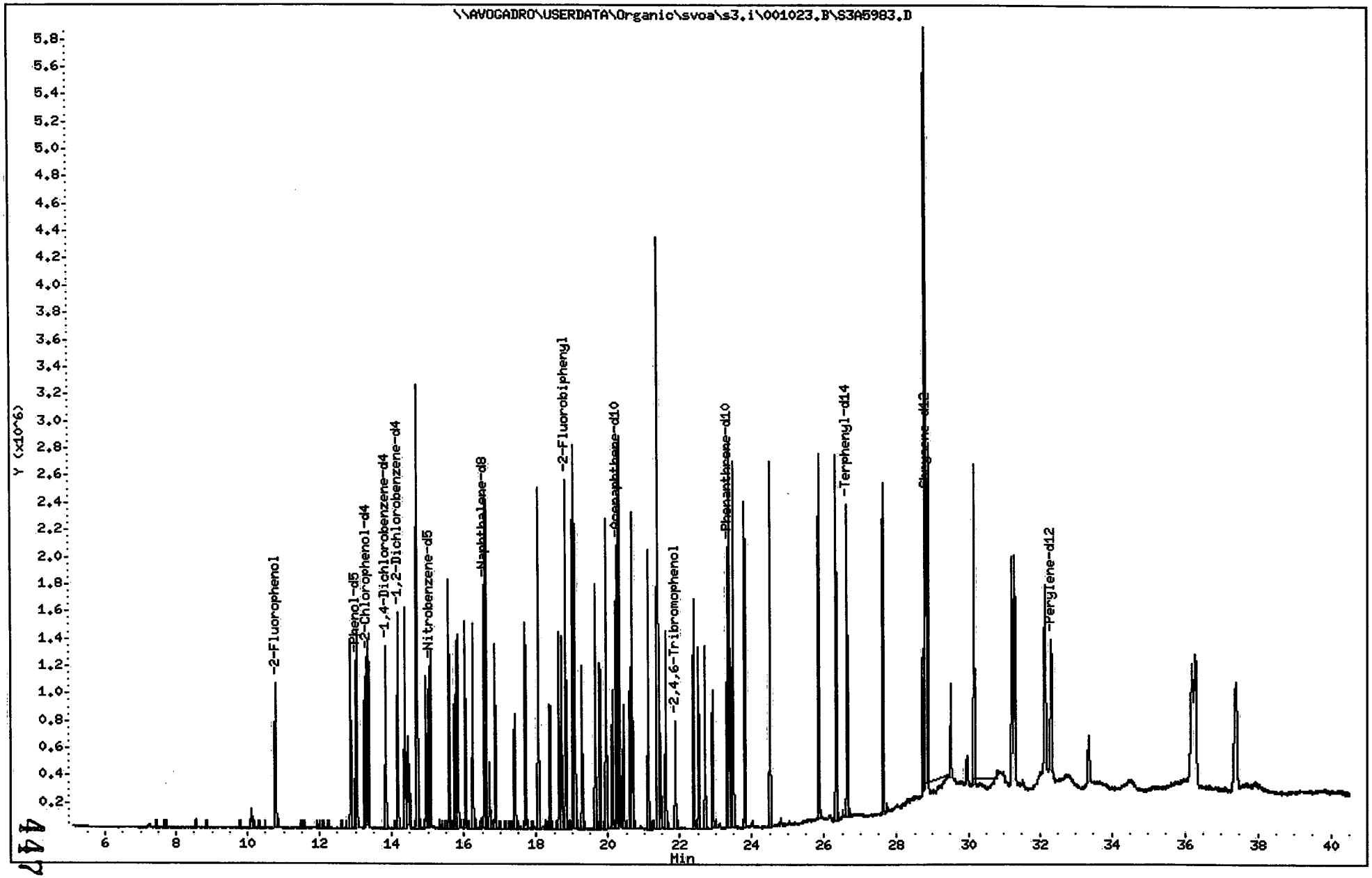
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5983.D
Date : 23-OCT-2000 10:59
Client ID: SSTD0503D
Sample Info: SS1023A,SSTD0503D

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A5983.D
Report Date: 24-Oct-2000 09:03

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5983.D
Lab Smp Id: SS1023A Client Smp ID: SSTD0503D
Inj Date : 23-OCT-2000 10:59
Operator : QY Inst ID: s3.i
Smp Info : SS1023A,SSTD0503D
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:03 mtl Quant Type: ISTD
Cal Date : 23-OCT-2000 10:59 Cal File: S3A5983.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	10.782	10.782	(0.779)	596227	50.0000	51
	2 Benzaldehyde	77	12.866	12.866	(0.930)	487862	50.0000	48
$	3 Phenol-d5	99	13.010	13.010	(0.940)	766806	50.0000	51
	4 Phenol	94	13.042	13.042	(0.942)	805848	50.0000	50
	5 bis(2-Chloroethyl)Ether	93	13.266	13.266	(0.959)	636867	50.0000	51
$	6 2-Chlorophenol-d4	132	13.331	13.331	(0.963)	626767	50.0000	51
	7 2-Chlorophenol	128	13.368	13.368	(0.966)	640883	50.0000	51
*	8 1,4-Dichlorobenzene-d4	152	13.838	13.838	(1.000)	371549	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	14.169	14.169	(1.024)	432741	50.0000	50
	10 2-Methylphenol	108	14.367	14.367	(1.038)	583955	50.0000	51
	11 2,2'-oxybis(1-Chloropropane)	45	14.431	14.431	(1.043)	962474	50.0000	50(M)
	12 4-Methylphenol	108	14.687	14.687	(1.061)	607420	50.0000	50
	13 N-Nitroso-di-n-propylamine	70	14.709	14.709	(1.063)	399025	50.0000	51
	14 Acetophenone	105	14.709	14.709	(1.063)	851120	50.0000	49
	15 Hexachloroethane	117	14.938	14.938	(1.080)	250348	50.0000	52
$	16 Nitrobenzene-d5	82	15.035	15.035	(0.907)	647238	50.0000	50
	17 Nitrobenzene	77	15.072	15.072	(0.910)	670075	50.0000	49
	18 Isophorone	82	15.585	15.585	(0.941)	1209452	50.0000	51
	19 2-Nitrophenol	139	15.750	15.750	(0.951)	308139	50.0000	52
	20 2,4-Dimethylphenol	107	15.825	15.825	(0.955)	491775	50.0000	47
	21 bis(2-Chloroethoxy)methane	93	16.039	16.039	(0.968)	760193	50.0000	50
	22 2,4-Dichlorophenol	162	16.247	16.247	(0.981)	491141	50.0000	52
*	23 Naphthalene-d8	136	16.568	16.568	(1.000)	1399517	40.0000	
	24 Naphthalene	128	16.611	16.611	(1.003)	1914133	50.0000	50
	25 4-Chloroaniline	127	16.707	16.707	(1.008)	235133	50.0000	52
	26 Hexachlorobutadiene	225	16.867	16.867	(1.018)	234276	50.0000	50

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Data File: S3A5983.D
Report Date: 24-Oct-2000 09:03

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.412	17.412	(1.051)	219895	50.0000	51
	28 4-Chloro-3-Methylphenol	107	17.706	17.706	(1.069)	518104	50.0000	51
	29 2-Methylnaphthalene	142	18.064	18.064	(1.090)	1219891	50.0000	50
	30 Hexachlorocyclopentadiene	237	18.390	18.390	(0.908)	223791	50.0000	45
	31 2,4,6-Trichlorophenol	196	18.641	18.641	(0.921)	311702	50.0000	50
	32 2,4,5-Trichlorophenol	196	18.710	18.710	(0.924)	341034	50.0000	50
$	33 2-Fluorobiphenyl	172	18.822	18.822	(0.930)	1319460	50.0000	50
	34 1,1'-Biphenyl	154	19.036	19.036	(0.940)	1515352	50.0000	50
	35 2-Chloronaphthalene	162	19.084	19.084	(0.943)	1087306	50.0000	50
	36 2-Nitroaniline	65	19.276	19.276	(0.952)	338454	50.0000	49
	37 Dimethylphthalate	163	19.650	19.650	(0.971)	1206342	50.0000	50
	38 2,6-Dinitrotoluene	165	19.784	19.784	(0.977)	265211	50.0000	52
	39 Acenaphthylene	152	19.949	19.949	(0.985)	1740227	50.0000	50
	40 3-Nitroaniline	138	20.126	20.126	(0.994)	274690	50.0000	52
*	41 Acenaphthene-d10	164	20.243	20.243	(1.000)	784164	40.0000	
	42 Acenaphthene	153	20.313	20.313	(1.003)	1161668	50.0000	51
	43 2,4-Dinitrophenol	184	20.345	20.345	(1.005)	92453	50.0000	54
	44 4-Nitrophenol	109	20.430	20.430	(1.009)	138564	50.0000	50
	45 2,4-Dinitrotoluene	165	20.617	20.617	(1.018)	365925	50.0000	54
	46 Dibenzofuran	168	20.671	20.671	(1.021)	1598721	50.0000	50
	47 Diethylphthalate	149	21.119	21.119	(1.043)	1216481	50.0000	51
	48 4-Chlorophenyl-phenylether	204	21.376	21.376	(1.056)	565539	50.0000	51
	49 Fluorene	166	21.386	21.386	(1.056)	1295966	50.0000	50
	50 4-Nitroaniline	138	21.392	21.392	(1.057)	315428	50.0000	49
	51 4,6-Dinitro-2-methylphenol	198	21.461	21.461	(0.920)	158924	50.0000	54
	52 N-Nitrosodiphenylamine (1)	169	21.605	21.605	(0.926)	641654	50.0000	52
$	53 2,4,6-Tribromophenol	330	21.873	21.873	(0.937)	131258	50.0000	55
	54 4-Bromophenyl-phenylether	248	22.391	22.391	(0.959)	293832	50.0000	52
	55 Hexachlorobenzene	284	22.524	22.524	(0.965)	276668	50.0000	50
	56 Atrazine	200	22.701	22.701	(0.973)	223625	50.0000	52
	57 Pentachlorophenol	266	22.920	22.920	(0.982)	181120	50.0000	52
*	58 Phenanthrene-d10	188	23.336	23.336	(1.000)	1248072	40.0000	
	59 Phenanthrene	178	23.384	23.384	(1.002)	1838608	50.0000	51
	60 Anthracene	178	23.491	23.491	(1.007)	1825568	50.0000	51
	61 Carbazole	167	23.812	23.812	(1.020)	1690547	50.0000	51
	62 Di-n-butylphthalate	149	24.512	24.512	(1.050)	2096649	50.0000	52
	63 Fluoranthene	202	25.858	25.858	(1.108)	1805421	50.0000	50
	64 Pyrene	202	26.333	26.333	(0.914)	1865048	50.0000	53
$	65 Terphenyl-d14	244	26.632	26.632	(0.924)	1244759	50.0000	52
	66 Butylbenzylphthalate	149	27.626	27.626	(0.958)	909053	50.0000	54
	67 3,3'-Dichlorobenzidine	252	28.721	28.721	(0.996)	362400	50.0000	47
	68 bis(2-Ethylhexyl)phthalate	149	28.796	28.796	(0.999)	1280042	50.0000	54
	69 Benzo(a)anthracene	228	28.801	28.801	(0.999)	1560893	50.0000	51
*	70 Chrysene-d12	240	28.823	28.823	(1.000)	979194	40.0000	
	71 Chrysene	228	28.876	28.876	(1.002)	1468671	50.0000	51
	72 Di-n-octylphthalate	149	30.169	30.169	(0.933)	2144151	50.0000	58
	73 Benzo(b)fluoranthene	252	31.237	31.237	(0.966)	1480907	50.0000	52

Data File: S3A5983.D
Report Date: 24-Oct-2000 09:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.312	31.312	(0.969)	1472737	50.0000	51
75 Benzo(a)pyrene	252	32.162	32.162	(0.995)	1335969	50.0000	52
* 76 Perylene-d12	264	32.327	32.327	(1.000)	845930	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	36.206	36.206	(1.120)	1349508	50.0000	52
78 Dibenzo(a,h)anthracene	278	36.296	36.296	(1.123)	1329101	50.0000	51
79 Benzo(g,h,i)perylene	276	37.402	37.402	(1.157)	1320420	50.0000	50

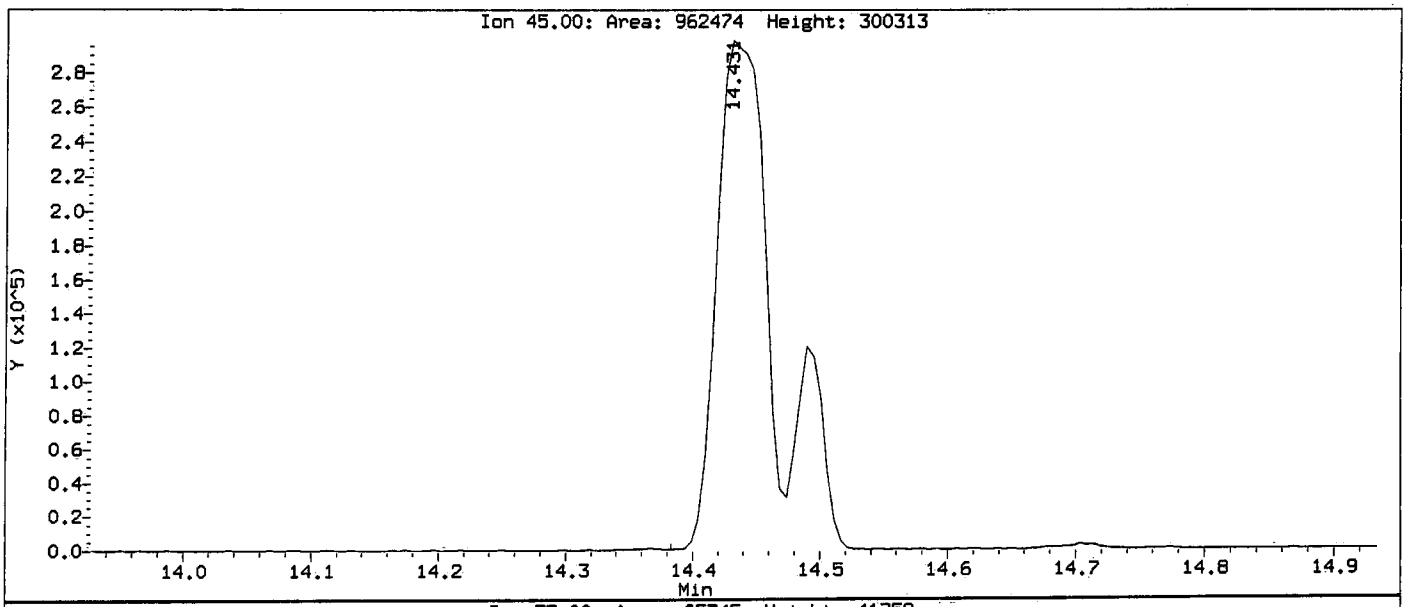
10/26/00

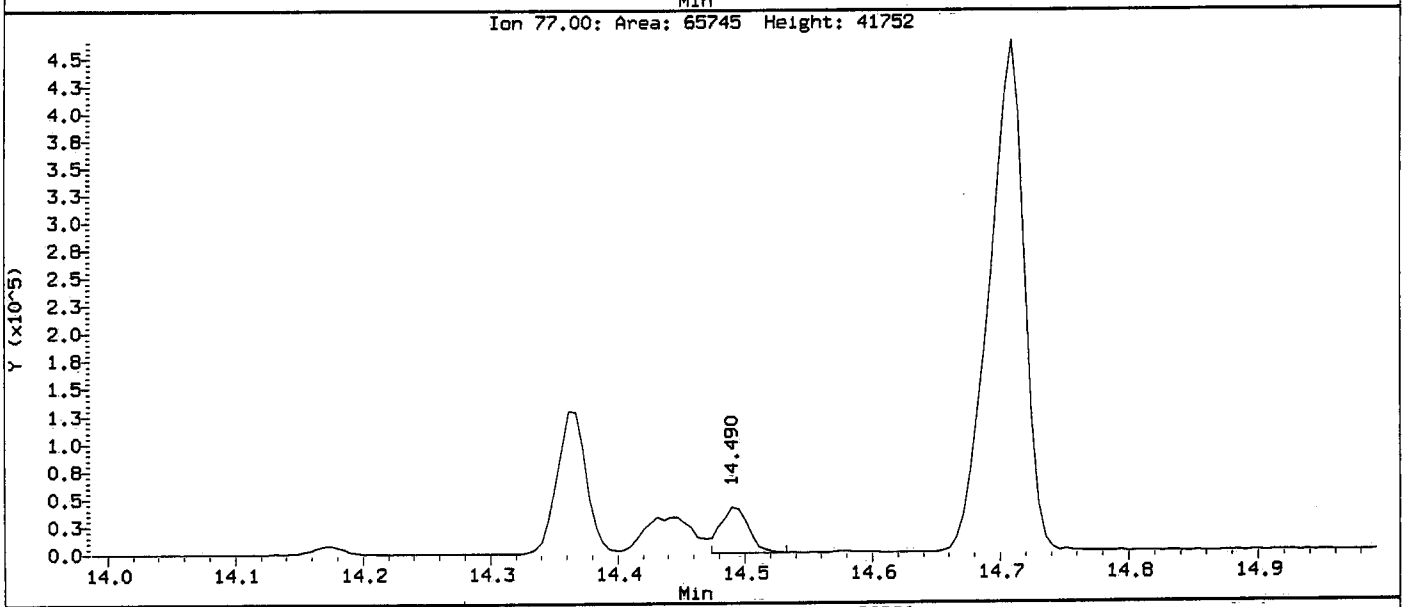
QC Flag Legend

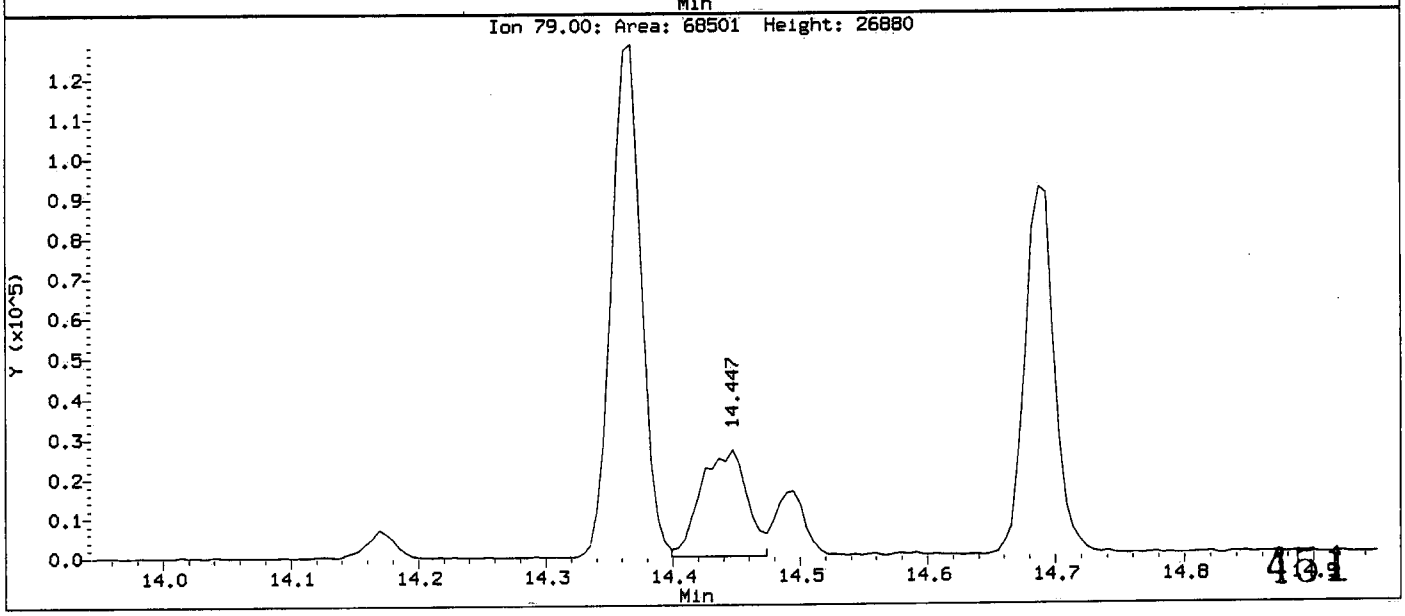
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5983.D
Injection Date: 23-OCT-2000 10:59
Instrument: s3.i
Client Sample ID: SSTD0503D

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







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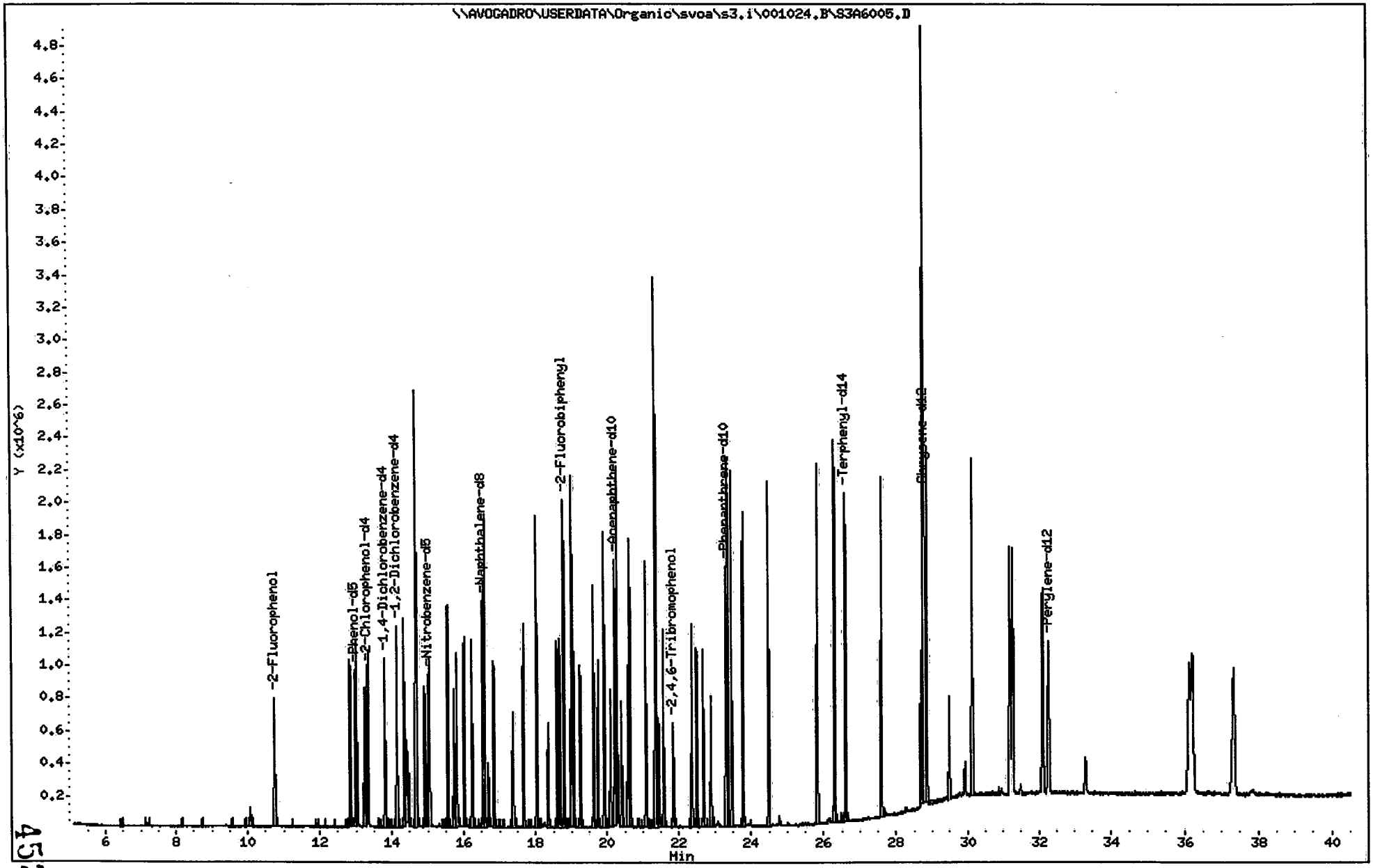
Date : 24-OCT-2000 09:13
Client ID: SSTD0503F
Sample Info: SS1024A,SSTD0503F

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



452

Data File: S3A6005.D
Report Date: 24-Oct-2000 09:59

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6005.D
Lab Smp Id: SS1024A Client Smp ID: SSTD0503F
Inj Date : 24-OCT-2000 09:13
Operator : QY Inst ID: s3.i
Smp Info : SS1024A,SSTD0503F
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$	1 2-Fluorophenol	112	10.751	10.751	(0.778)	453708	50.0000	51
	2 Benzaldehyde	77	12.840	12.840	(0.930)	367273	50.0000	47
$	3 Phenol-d5	99	12.990	12.990	(0.940)	597829	50.0000	52
	4 Phenol	94	13.016	13.016	(0.942)	627623	50.0000	52
	5 bis(2-Chloroethyl)Ether	93	13.235	13.235	(0.958)	480115	50.0000	50
$	6 2-Chlorophenol-d4	132	13.305	13.305	(0.963)	482412	50.0000	52
	7 2-Chlorophenol	128	13.337	13.337	(0.966)	496558	50.0000	51
*	8 1,4-Dichlorobenzene-d4	152	13.812	13.812	(1.000)	282945	40.0000	
$	9 1,2-Dichlorobenzene-d4	152	14.143	14.143	(1.024)	334654	50.0000	51
	10 2-Methylphenol	108	14.341	14.341	(1.038)	456434	50.0000	52
	11 2,2'-oxybis(1-Chloropropane)	45	14.416	14.416	(1.044)	706999	50.0000	48(M)
	12 4-Methylphenol	108	14.667	14.667	(1.062)	474157	50.0000	51
	13 N-Nitroso-di-n-propylamine	70	14.683	14.683	(1.063)	324949	50.0000	54
	14 Acetophenone	105	14.683	14.683	(1.063)	662152	50.0000	50
	15 Hexachloroethane	117	14.913	14.913	(1.080)	185933	50.0000	50
$	16 Nitrobenzene-d5	82	15.004	15.004	(0.907)	514506	50.0000	51
	17 Nitrobenzene	77	15.046	15.046	(0.910)	524791	50.0000	50
	18 Isophorone	82	15.559	15.559	(0.941)	935956	50.0000	50
	19 2-Nitrophenol	139	15.725	15.725	(0.951)	270416	50.0000	59
	20 2,4-Dimethylphenol	107	15.799	15.799	(0.955)	362822	50.0000	44
	21 bis(2-Chloroethoxy)methane	93	16.013	16.013	(0.968)	579538	50.0000	49
	22 2,4-Dichlorophenol	162	16.227	16.227	(0.981)	385221	50.0000	52
*	23 Naphthalene-d8	136	16.537	16.537	(1.000)	1089889	40.0000	
	24 Naphthalene	128	16.585	16.585	(1.003)	1476604	50.0000	50
	25 4-Chloroaniline	127	16.681	16.681	(1.009)	187326	50.0000	53
	26 Hexachlorobutadiene	225	16.841	16.841	(1.018)	175672	50.0000	48

✓ 10/26/00

Data File: S3A6005.D
Report Date: 24-Oct-2000 09:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.381	17.381	(1.051)	178786	50.0000	53
	28 4-Chloro-3-Methylphenol	107	17.680	17.680	(1.069)	416821	50.0000	53
	29 2-Methylnaphthalene	142	18.038	18.038	(1.091)	955456	50.0000	50
	30 Hexachlorocyclopentadiene	237	18.358	18.358	(0.908)	152275	50.0000	39
	31 2,4,6-Trichlorophenol	196	18.609	18.609	(0.921)	256345	50.0000	53
	32 2,4,5-Trichlorophenol	196	18.684	18.684	(0.924)	274665	50.0000	51
$	33 2-Fluorobiphenyl	172	18.796	18.796	(0.930)	1038016	50.0000	50
	34 1,1'-Biphenyl	154	19.005	19.005	(0.940)	1179722	50.0000	50
	35 2-Chloronaphthalene	162	19.058	19.058	(0.943)	856120	50.0000	50
	36 2-Nitroaniline	65	19.250	19.250	(0.952)	287428	50.0000	53
	37 Dimethylphthalate	163	19.624	19.624	(0.971)	969853	50.0000	51
	38 2,6-Dinitrotoluene	165	19.753	19.753	(0.977)	228909	50.0000	57
	39 Acenaphthylene	152	19.924	19.924	(0.986)	1379275	50.0000	51
	40 3-Nitroaniline	138	20.100	20.100	(0.994)	231095	50.0000	55
*	41 Acenaphthene-d10	164	20.212	20.212	(1.000)	618748	40.0000	
	42 Acenaphthene	153	20.282	20.282	(1.003)	903082	50.0000	50
	43 2,4-Dinitrophenol	184	20.324	20.324	(1.006)	105602	50.0000	78
	44 4-Nitrophenol	109	20.410	20.410	(1.010)	117165	50.0000	54
	45 2,4-Dinitrotoluene	165	20.591	20.591	(1.019)	312827	50.0000	58
	46 Dibenzofuran	168	20.639	20.639	(1.021)	1271346	50.0000	50
	47 Diethylphthalate	149	21.088	21.088	(1.043)	970827	50.0000	51
	48 4-Chlorophenyl-phenylether	204	21.345	21.345	(1.056)	448387	50.0000	51
	49 Fluorene	166	21.355	21.355	(1.057)	1030708	50.0000	51
	50 4-Nitroaniline	138	21.366	21.366	(1.057)	268033	50.0000	53
	51 4,6-Dinitro-2-methylphenol	198	21.435	21.435	(0.920)	161911	50.0000	68
	52 N-Nitrosodiphenylamine (1)	169	21.580	21.580	(0.926)	511960	50.0000	52
$	53 2,4,6-Tribromophenol	330	21.847	21.847	(0.937)	107083	50.0000	56
	54 4-Bromophenyl-phenylether	248	22.365	22.365	(0.960)	224117	50.0000	49
	55 Hexachlorobenzene	284	22.493	22.493	(0.965)	225741	50.0000	51
	56 Atrazine	200	22.675	22.675	(0.973)	181890	50.0000	52
	57 Pentachlorophenol	266	22.894	22.894	(0.982)	139218	50.0000	50
*	58 Phenanthrene-d10	188	23.305	23.305	(1.000)	1010037	40.0000	
	59 Phenanthrene	178	23.359	23.359	(1.002)	1488818	50.0000	51
	60 Anthracene	178	23.465	23.465	(1.007)	1471088	50.0000	50
	61 Carbazole	167	23.781	23.781	(1.020)	1394888	50.0000	52
	62 Di-n-butylphthalate	149	24.480	24.480	(1.050)	1724852	50.0000	53
	63 Fluoranthene	202	25.827	25.827	(1.108)	1496681	50.0000	52
	64 Pyrene	202	26.302	26.302	(0.914)	1566942	50.0000	50
$	65 Terphenyl-d14	244	26.601	26.601	(0.924)	1070869	50.0000	51
	66 Butylbenzylphthalate	149	27.600	27.600	(0.959)	774540	50.0000	53
	67 3,3'-Dichlorobenzidine	252	28.690	28.690	(0.996)	327507	50.0000	49
	68 bis(2-Ethylhexyl)phthalate	149	28.765	28.765	(0.999)	1090075	50.0000	52
	69 Benzo(a)anthracene	228	28.770	28.770	(0.999)	1366165	50.0000	51
*	70 Chrysene-d12	240	28.792	28.792	(1.000)	858467	40.0000	
	71 Chrysene	228	28.845	28.845	(1.002)	1275695	50.0000	51
	72 Di-n-octylphthalate	149	30.132	30.132	(0.934)	1851930	50.0000	56
	73 Benzo(b)fluoranthene	252	31.196	31.196	(0.967)	1325670	50.0000	52

Data File: S3A6005.D
Report Date: 24-Oct-2000 09:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.270	31.270	(0.969)	1311013	50.0000	51
75 Benzo(a)pyrene	252	32.114	32.114	(0.995)	1187437	50.0000	52
* 76 Perylene-d12	264	32.275	32.275	(1.000)	756140	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	36.132	36.132	(1.120)	1280848	50.0000	55
78 Dibenzo(a,h)anthracene	278	36.217	36.217	(1.122)	1222390	50.0000	53
79 Benzo(g,h,i)perylene	276	37.328	37.328	(1.157)	1209334	50.0000	51

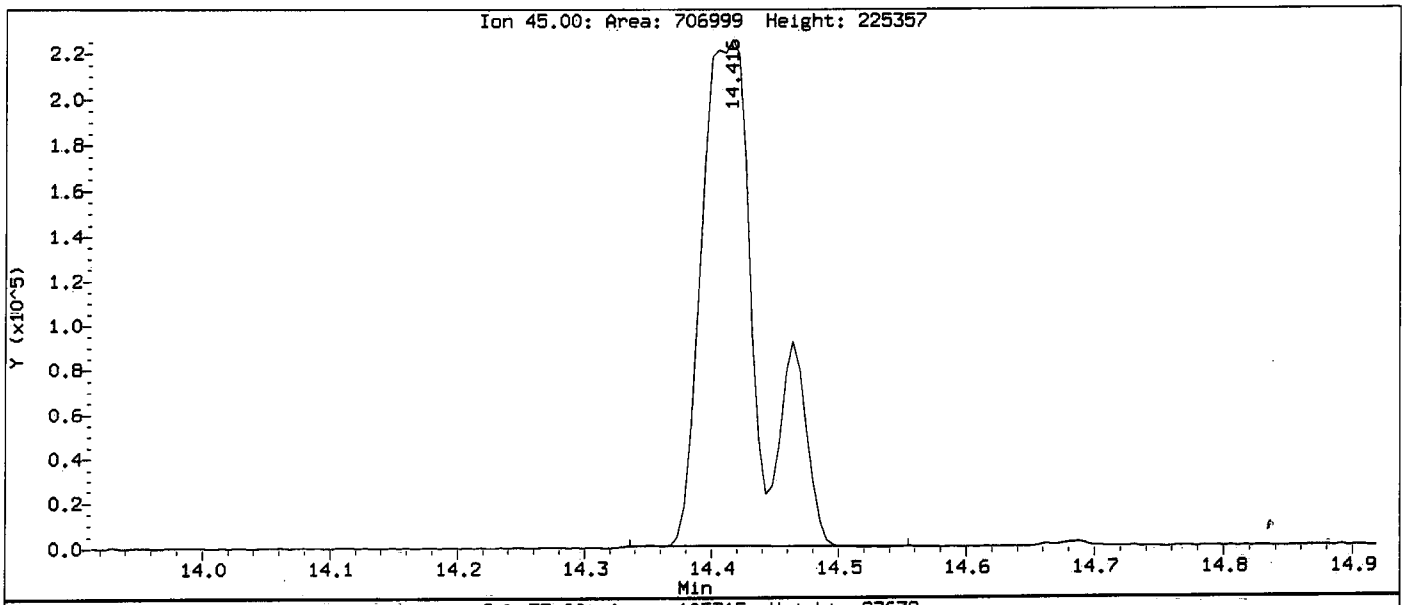
P 10/26/00

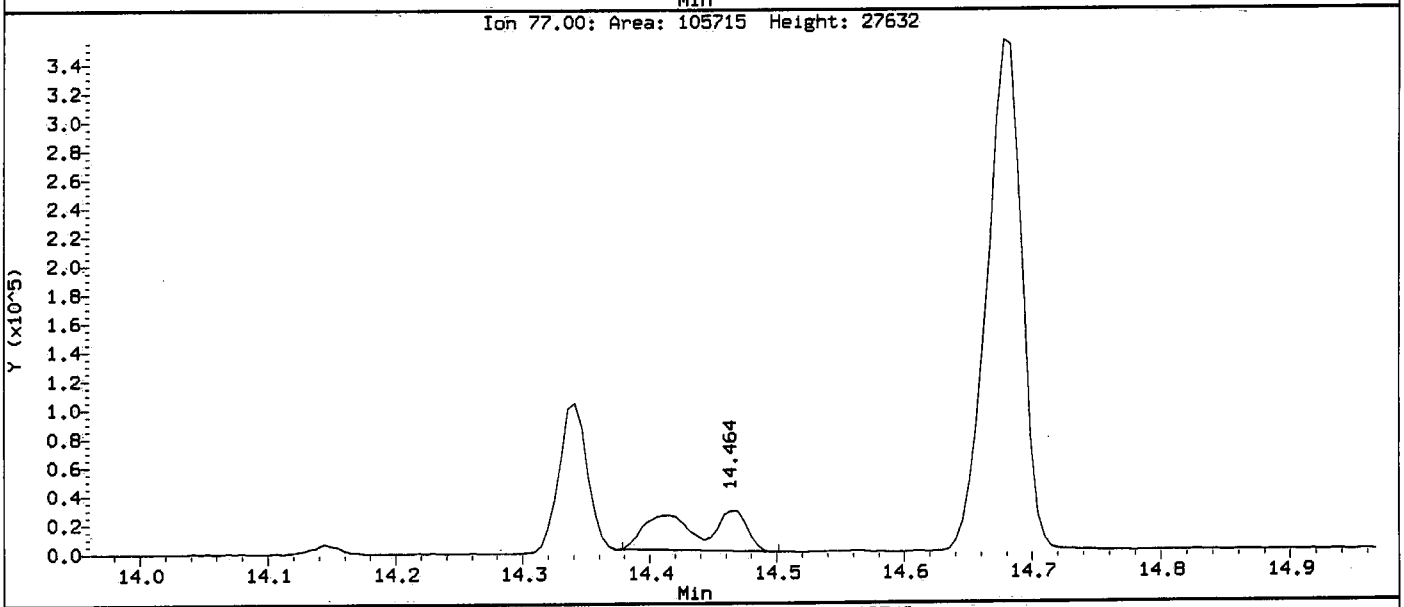
QC Flag Legend

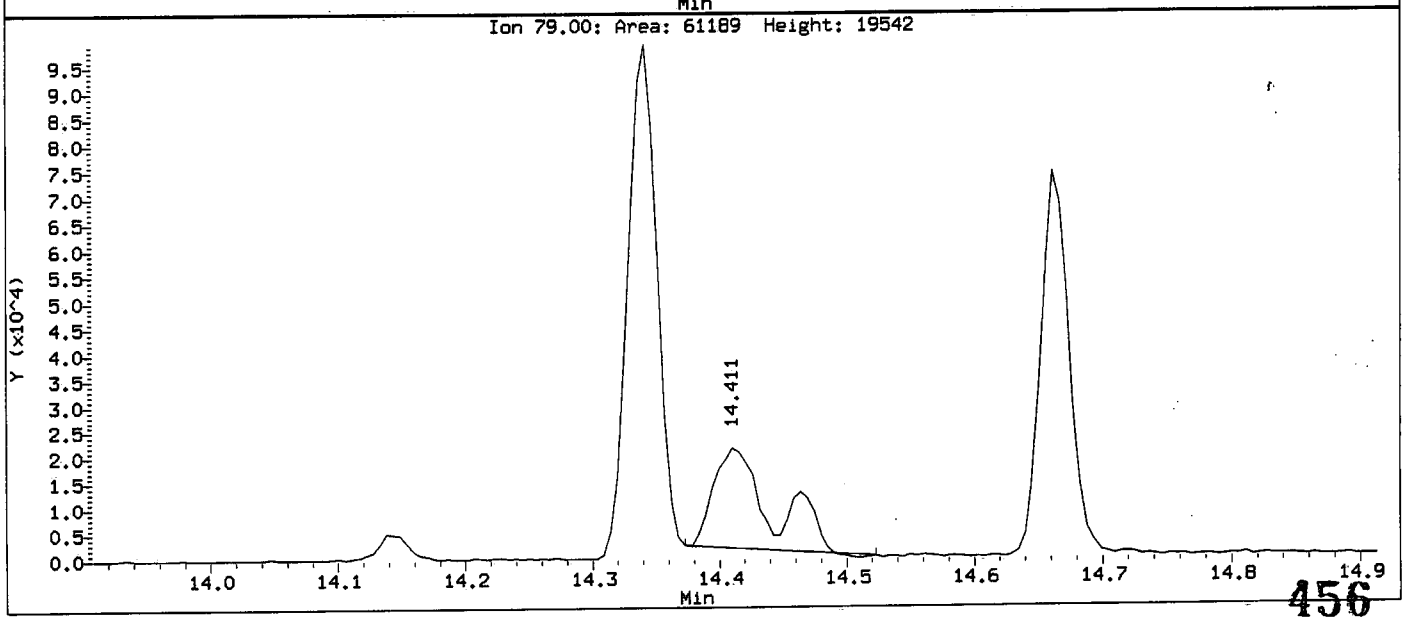
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6005.D
Injection Date: 24-OCT-2000 09:13
Instrument: s3.i
Client Sample ID: SSTD0503F

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







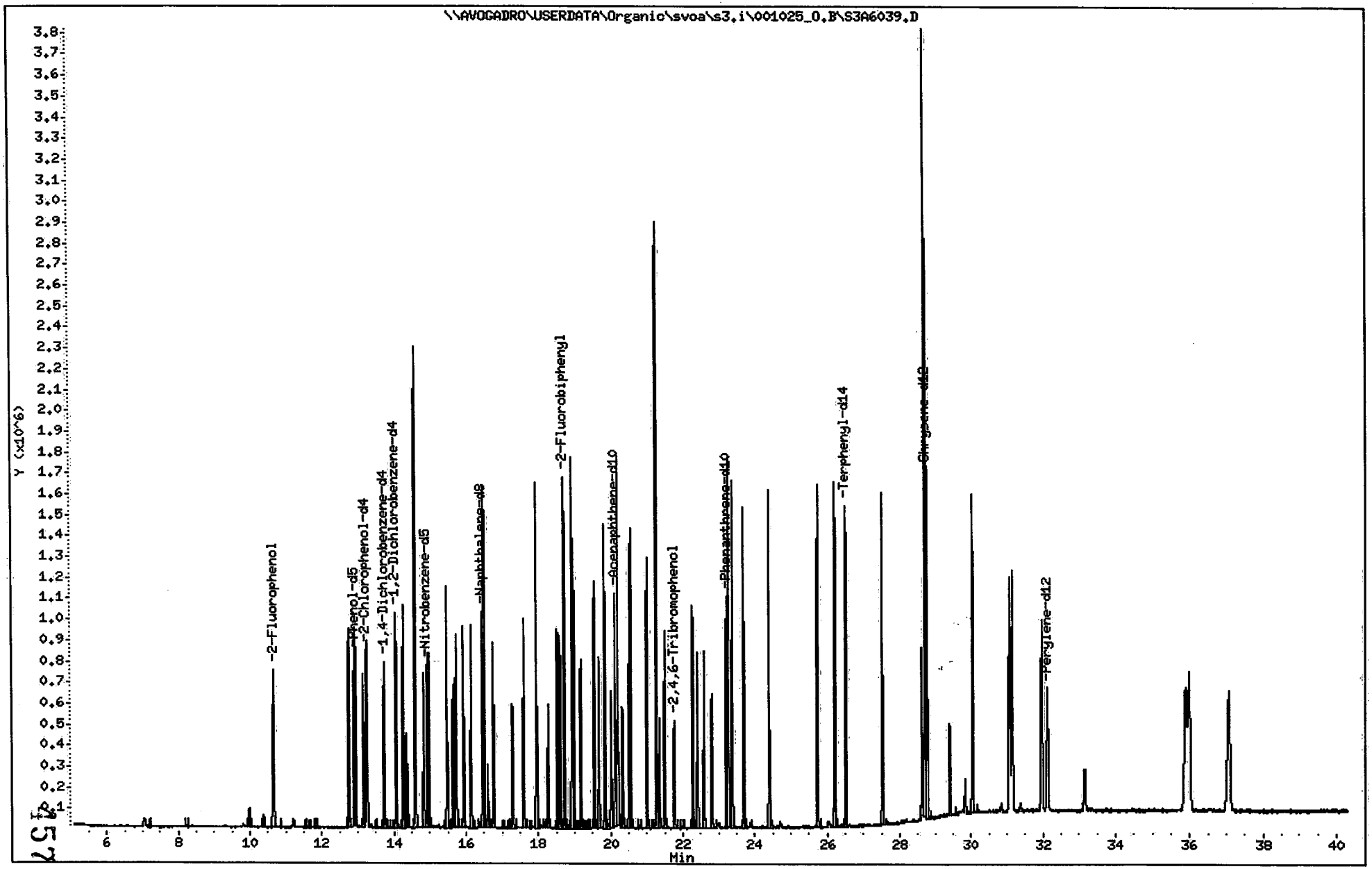
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6039.D
Date : 25-OCT-2000 14:05
Client ID: SSTD0503J
Sample Info: SS1025B,SSTD0503J

Instrument: s3.i

Operator: QY

Column phase: DB-5MS

Column diameter: 0.25



Data File: S3A6039.D
Report Date: 25-Oct-2000 16:00

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\S3A6039.D
Lab Smp Id: SS1025B Client Smp ID: SSTD0503J
Inj Date : 25-OCT-2000 14:05
Operator : QY Inst ID: s3.i
Smp Info : SS1025B,SSTD0503J
Misc Info : 2,2,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_O.B\s3_olm4_1.m
Meth Date : 25-Oct-2000 16:00 mtl Quant Type: ISTD
Cal Date : 25-OCT-2000 14:05 Cal File: S3A6039.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 1 2-Fluorophenol	112	10.670	10.670	(0.776)	388378	50.0000	58
2 Benzaldehyde	77	12.764	12.764	(0.929)	335244	50.0000	57
$ 3 Phenol-d5	99	12.914	12.914	(0.940)	495693	50.0000	57
4 Phenol	94	12.946	12.946	(0.942)	514715	50.0000	56
5 bis(2-Chloroethyl)Ether	93	13.165	13.165	(0.958)	398452	50.0000	55
$ 6 2-Chlorophenol-d4	132	13.229	13.229	(0.963)	407925	50.0000	58
7 2-Chlorophenol	128	13.266	13.266	(0.965)	419306	50.0000	57
* 8 1,4-Dichlorobenzene-d4	152	13.742	13.742	(1.000)	213855	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.073	14.073	(1.024)	288572	50.0000	58
10 2-Methylphenol	108	14.270	14.270	(1.038)	360033	50.0000	54
11 2,2'-oxybis(1-Chloropropane)	45	14.345	14.345	(1.044)	600460	50.0000	54(M)
12 4-Methylphenol	108	14.591	14.591	(1.062)	382187	50.0000	55
13 N-Nitroso-di-n-propylamine	70	14.612	14.612	(1.063)	250023	50.0000	55
14 Acetophenone	105	14.607	14.607	(1.063)	538050	50.0000	54
15 Hexachloroethane	117	14.837	14.837	(1.080)	159757	50.0000	57
$ 16 Nitrobenzene-d5	82	14.933	14.933	(0.907)	418765	50.0000	58
17 Nitrobenzene	77	14.970	14.970	(0.909)	433433	50.0000	57
18 Isophorone	82	15.483	15.483	(0.940)	746559	50.0000	56
19 2-Nitrophenol	139	15.649	15.649	(0.950)	220716	50.0000	67
20 2,4-Dimethylphenol	107	15.729	15.729	(0.955)	309599	50.0000	52
21 bis(2-Chloroethoxy)methane	93	15.942	15.942	(0.968)	483779	50.0000	57
22 2,4-Dichlorophenol	162	16.151	16.151	(0.981)	311672	50.0000	59
* 23 Naphthalene-d8	136	16.466	16.466	(1.000)	784102	40.0000	
24 Naphthalene	128	16.509	16.509	(1.003)	1226118	50.0000	58
25 4-Chloroaniline	127	16.610	16.610	(1.009)	150807	50.0000	59
26 Hexachlorobutadiene	225	16.765	16.765	(1.018)	150550	50.0000	57

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Data File: S3A6039.D
Report Date: 25-Oct-2000 16:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Caprolactam	113	17.294	17.294	(1.050)	136444	50.0000	57
	28 4-Chloro-3-Methylphenol	107	17.609	17.609	(1.069)	320871	50.0000	56
	29 2-Methylnaphthalene	142	17.962	17.962	(1.091)	773926	50.0000	56
	30 Hexachlorocyclopentadiene	237	18.282	18.282	(0.908)	145935	50.0000	54
	31 2,4,6-Trichlorophenol	196	18.533	18.533	(0.920)	210232	50.0000	62
	32 2,4,5-Trichlorophenol	196	18.608	18.608	(0.924)	223666	50.0000	60
$	33 2-Fluorobiphenyl	172	18.720	18.720	(0.930)	844709	50.0000	58
	34 1,1'-Biphenyl	154	18.929	18.929	(0.940)	960926	50.0000	58
	35 2-Chloronaphthalene	162	18.977	18.977	(0.942)	697257	50.0000	58
	36 2-Nitroaniline	65	19.174	19.174	(0.952)	219883	50.0000	58
	37 Dimethylphthalate	163	19.548	19.548	(0.971)	770697	50.0000	58
	38 2,6-Dinitrotoluene	165	19.677	19.677	(0.977)	184725	50.0000	66
	39 Acenaphthylene	152	19.842	19.842	(0.985)	1082173	50.0000	57
	40 3-Nitroaniline	138	20.024	20.024	(0.994)	176962	50.0000	60
*	41 Acenaphthene-d10	164	20.136	20.136	(1.000)	431749	40.0000	
	42 Acenaphthene	153	20.206	20.206	(1.003)	715019	50.0000	57
	43 2,4-Dinitrophenol	184	20.243	20.243	(1.005)	85634	50.0000	90
	44 4-Nitrophenol	109	20.339	20.339	(1.010)	89460	50.0000	59
	45 2,4-Dinitrotoluene	165	20.515	20.515	(1.019)	246309	50.0000	66
	46 Dibenzofuran	168	20.563	20.563	(1.021)	1000430	50.0000	57
	47 Diethylphthalate	149	21.012	21.012	(1.044)	761829	50.0000	58
	48 4-Chlorophenyl-phenylether	204	21.269	21.269	(1.056)	366458	50.0000	60
	49 Fluorene	166	21.274	21.274	(1.057)	808634	50.0000	57
	50 4-Nitroaniline	138	21.285	21.285	(1.057)	206629	50.0000	58
	51 4,6-Dinitro-2-methylphenol	198	21.354	21.354	(0.919)	127797	50.0000	79
	52 N-Nitrosodiphenylamine (1)	169	21.504	21.504	(0.926)	390215	50.0000	58
$	53 2,4,6-Tribromophenol	330	21.771	21.771	(0.937)	83242	50.0000	64
	54 4-Bromophenyl-phenylether	248	22.284	22.284	(0.960)	183782	50.0000	60
	55 Hexachlorobenzene	284	22.417	22.417	(0.965)	179790	50.0000	60
	56 Atrazine	200	22.599	22.599	(0.973)	143527	50.0000	61
	57 Pentachlorophenol	266	22.812	22.812	(0.982)	113295	50.0000	60
*	58 Phenanthrene-d10	188	23.224	23.224	(1.000)	680593	40.0000	
	59 Phenanthrene	178	23.277	23.277	(1.002)	1148801	50.0000	58
	60 Anthracene	178	23.384	23.384	(1.007)	1136508	50.0000	58
	61 Carbazole	167	23.705	23.705	(1.021)	1061324	50.0000	59
	62 Di-n-butylphthalate	149	24.410	24.410	(1.051)	1311457	50.0000	60
	63 Fluoranthene	202	25.745	25.745	(1.109)	1138808	50.0000	58
	64 Pyrene	202	26.221	26.221	(0.913)	1168899	50.0000	59
$	65 Terphenyl-d14	244	26.520	26.520	(0.924)	798727	50.0000	60
	66 Butylbenzylphthalate	149	27.519	27.519	(0.959)	565613	50.0000	61
	67 3,3'-Dichlorobenzidine	252	28.609	28.609	(0.997)	266292	50.0000	62
	68 bis(2-Ethylhexyl)phthalate	149	28.689	28.689	(0.999)	822470	50.0000	62
	69 Benzo(a)anthracene	228	28.683	28.683	(0.999)	1013893	50.0000	60
*	70 Chrysene-d12	240	28.705	28.705	(1.000)	543990	40.0000	
	71 Chrysene	228	28.758	28.758	(1.002)	946536	50.0000	59
	72 Di-n-octylphthalate	149	30.040	30.040	(0.935)	1357379	50.0000	65
	73 Benzo(b)fluoranthene	252	31.077	31.077	(0.967)	970559	50.0000	60

Data File: S3A6039.D
Report Date: 25-Oct-2000 16:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
74 Benzo(k)fluoranthene	252	31.146	31.146	(0.969)	962517	50.0000	59
75 Benzo(a)pyrene	252	31.974	31.974	(0.995)	862798	50.0000	60
* 76 Perylene-d12	264	32.129	32.129	(1.000)	473991	40.0000	
77 Indeno(1,2,3-cd)pyrene	276	35.906	35.906	(1.118)	877860	50.0000	60
78 Dibenzo(a,h)anthracene	278	35.986	35.986	(1.120)	874950	50.0000	60
79 Benzo(g,h,i)perylene	276	37.065	37.065	(1.154)	863530	50.0000	58

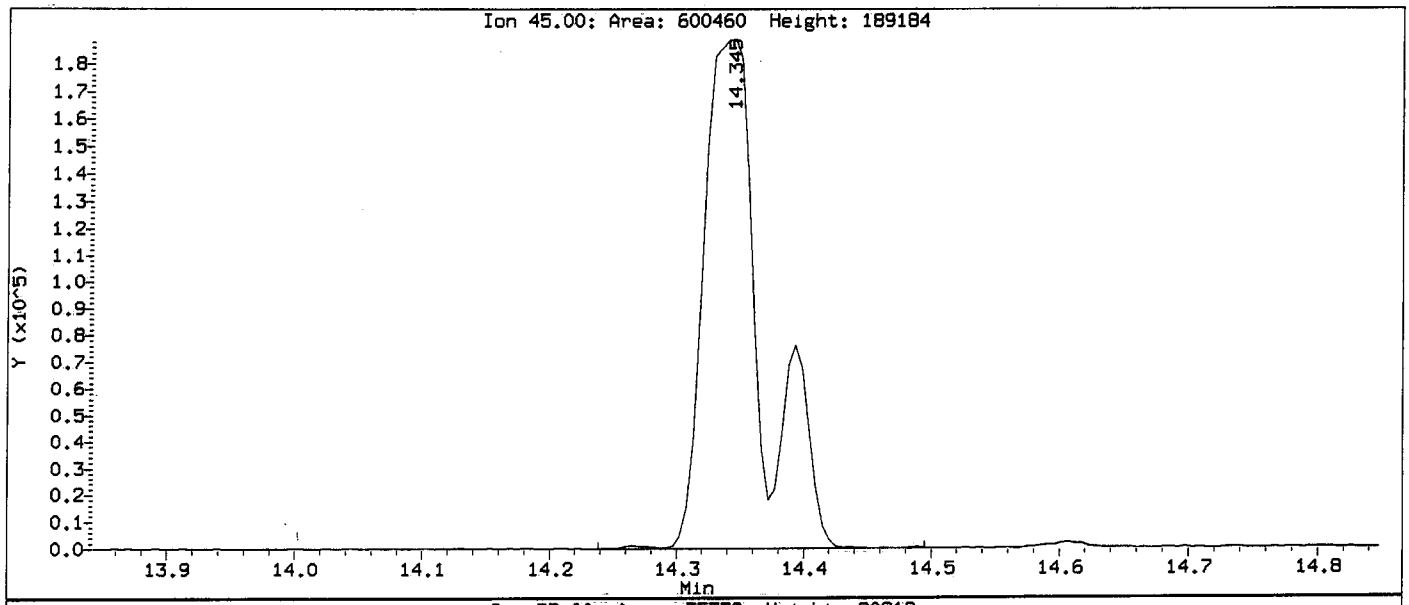
10/26/00

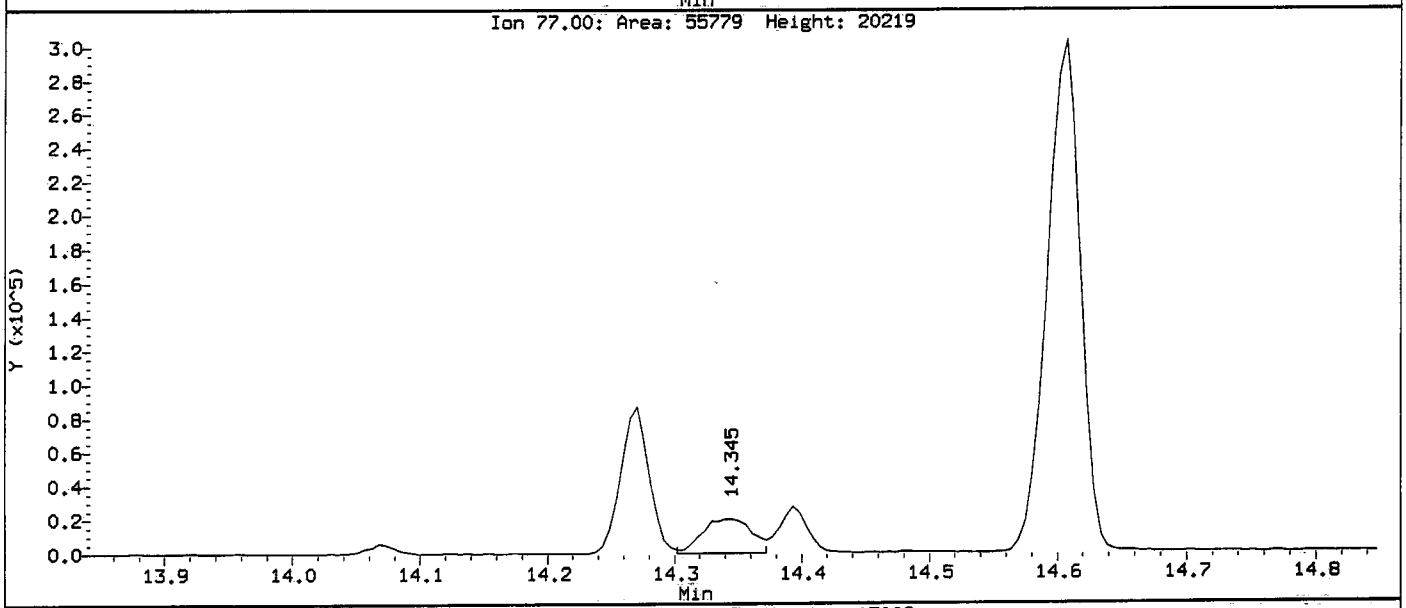
QC Flag Legend

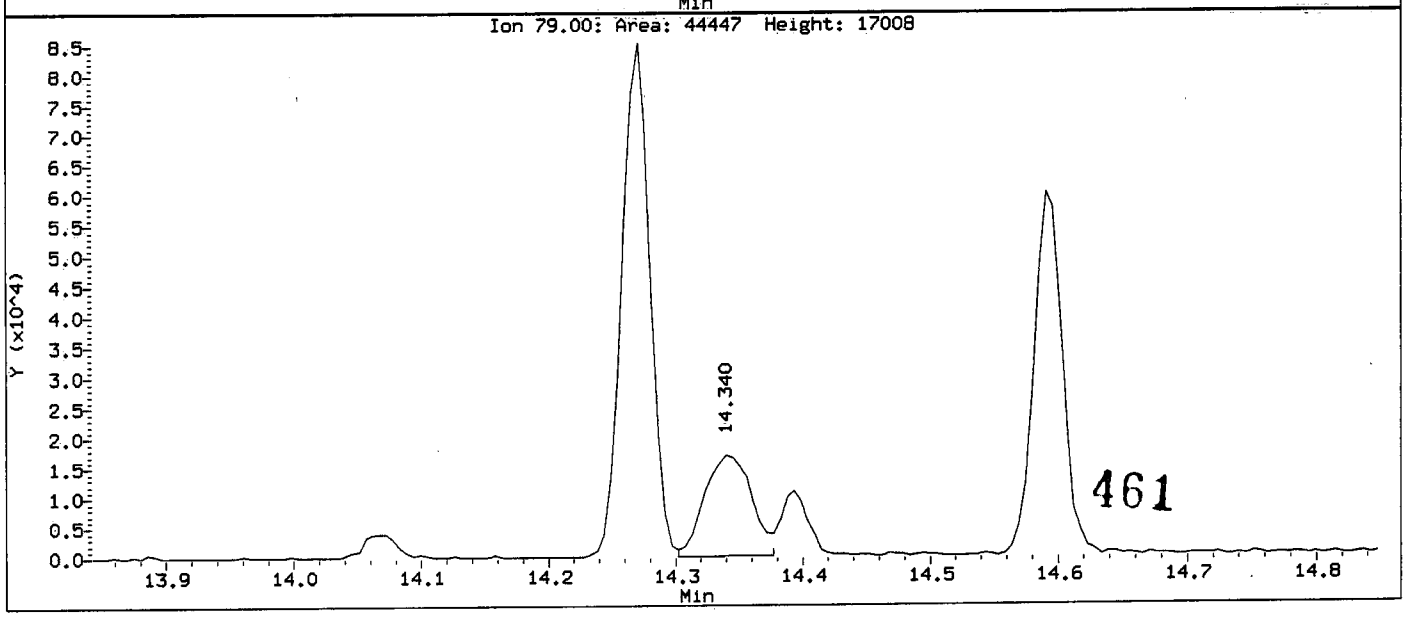
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6039.D
Injection Date: 25-OCT-2000 14:05
Instrument: s3.i
Client Sample ID: SSTD0503J

Compound: 2,2'-oxybis(1-Chloropropane)
CAS Number: 108-60-1







461

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5214.D

Date : 08-SEP-2000 10:11

Client ID: DFTPP3L

Instrument: S3.i

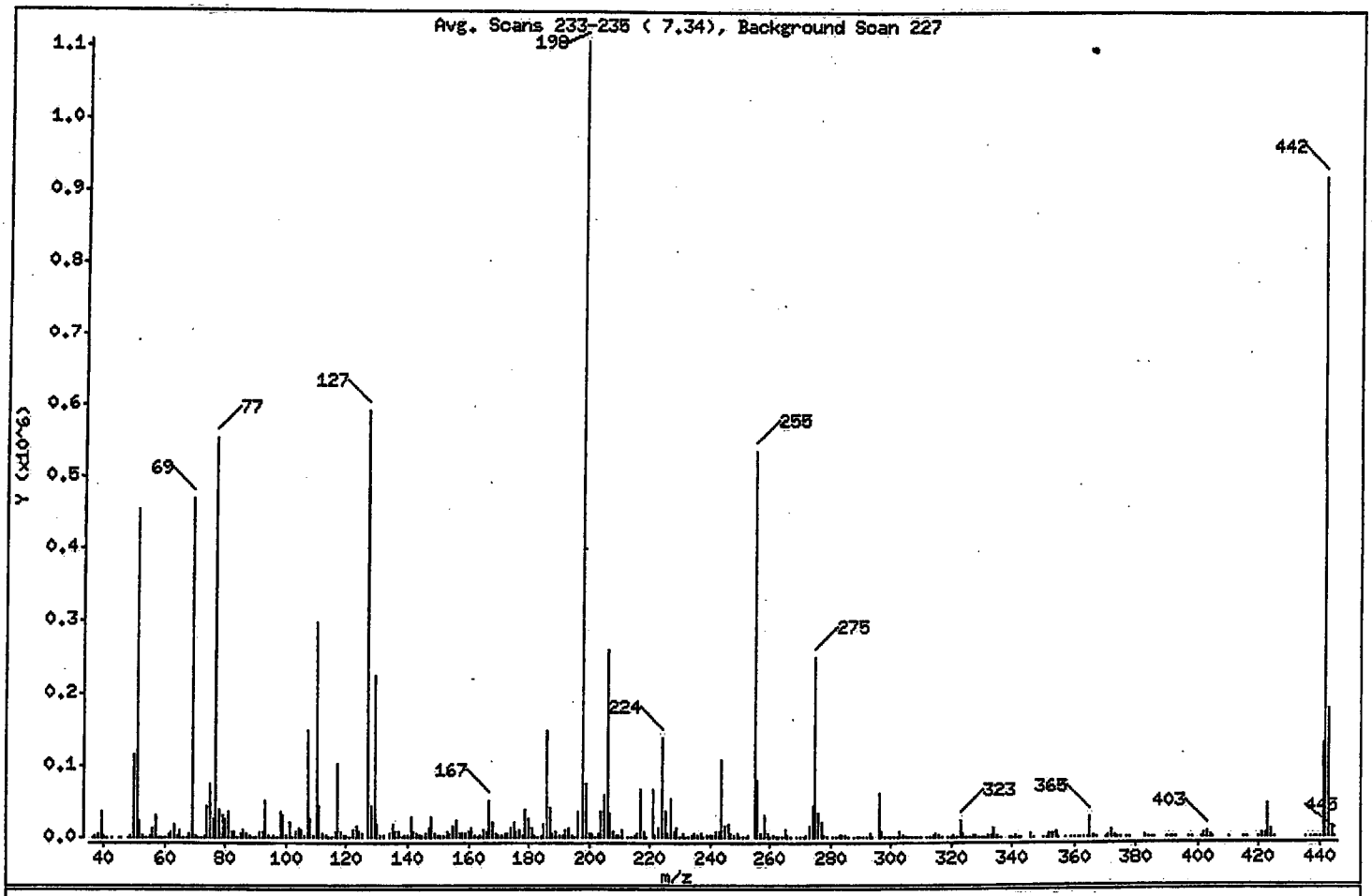
Sample Info: ST0908A,DFTPP3L

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	41.09
68	Less than 2.00% of mass 69	0.41 (0.98)
69	Mass 69 relative abundance	42.37
70	Less than 2.00% of mass 69	0.24 (0.57)
127	25.00 - 75.00% of mass 198	53.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 30.00% of mass 198	22.69
365	Greater than 0.75% of mass 198	2.43
441	Present, but less than mass 443	11.64
442	40.00 - 110.00% of mass 198	83.44
443	15.00 - 24.00% of mass 442	16.24 (19.46)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5214.D

Date : 08-SEP-2000 10:11

Client ID: DFTPP3L

Instrument: S3.i

Sample Info: ST0908A,DFTPP3L

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5214.D

Spectrum: Avg. Scans 233-235 (7.34), Background Scan 227

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	109	128.00	43488	219.00	498	314.00	3016
37.00	2131	129.00	225280	221.00	65512	315.00	5906
38.00	6297	130.00	18776	222.00	2820	316.00	3810
39.00	35456	131.00	3329	223.00	13992	317.00	634
40.00	1647	132.00	1613	224.00	138688	319.00	160
41.00	1143	134.00	5635	225.00	34648	320.00	437
43.00	355	135.00	17344	226.00	3991	321.00	2108
45.00	1191	136.00	6638	227.00	52688	322.00	1137
46.00	66	137.00	7882	228.00	7347	323.00	22472
48.00	279	138.00	1273	229.00	11943	324.00	4389
49.00	2490	139.00	1406	230.00	1222	325.00	441
50.00	115024	140.00	2696	231.00	4883	326.00	382
51.00	455104	141.00	27280	232.00	777	327.00	3357
52.00	23968	142.00	8469	233.00	1004	328.00	2191
53.00	1495	143.00	5399	234.00	3367	329.00	304
54.00	52	144.00	1543	235.00	3998	330.00	54
55.00	2223	145.00	1870	236.00	2627	331.00	120
56.00	11802	146.00	4834	237.00	3936	332.00	1544
57.00	29680	147.00	13750	238.00	761	333.00	2034
58.00	1262	148.00	29064	239.00	2190	334.00	13580
59.00	474	149.00	5543	240.00	1429	335.00	3456
60.00	15	150.00	1861	241.00	2706	336.00	270
61.00	5141	151.00	3182	242.00	6420	339.00	559
62.00	6530	152.00	1933	243.00	7467	340.00	315
63.00	17664	153.00	7981	244.00	107664	341.00	2325
64.00	2632	154.00	5799	245.00	15091	342.00	866
65.00	10293	155.00	15707	246.00	18616	343.00	249
66.00	912	156.00	23064	247.00	3864	346.00	4345
67.00	427	157.00	4391	248.00	1587	347.00	781
68.00	4594	158.00	4617	249.00	3897	350.00	142
69.00	469184	159.00	4049	250.00	704	351.00	514
70.00	2679	160.00	8620	251.00	1122	352.00	6307
71.00	414	161.00	11798	252.00	1041	353.00	4342
72.00	379	162.00	3737	253.00	2126	354.00	6724
73.00	2495	163.00	1101	255.00	536960	355.00	1184

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5214.D

Date : 08-SEP-2000 10:11

Client ID: DFTPP3L

Instrument: S3.i

Sample Info: ST0908A,DFTPP3L

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5214.D

Spectrum: Avg. Scans 233-235 (7.34), Background Scan 227

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	43744	164.00	1884	256.00	80048	357.00	108
75.00	73072	165.00	8953	257.00	5563	359.00	550
76.00	25352	166.00	7791	258.00	29384	360.00	79
77.00	554624	167.00	51448	259.00	4725	361.00	181
78.00	37568	168.00	20552	260.00	775	362.00	59
79.00	29408	169.00	3838	261.00	1337	363.00	235
80.00	24512	170.00	1715	262.00	183	364.00	196
81.00	34952	171.00	1933	263.00	310	365.00	26872
82.00	8408	172.00	4691	264.00	708	366.00	3821
83.00	8345	173.00	5773	265.00	11135	367.00	225
84.00	1130	174.00	11687	266.00	1356	370.00	728
85.00	5846	175.00	20400	267.00	309	371.00	1685
86.00	9206	176.00	6945	269.00	69	372.00	11099
87.00	4628	177.00	10192	270.00	839	373.00	2861
88.00	1514	178.00	2860	271.00	1152	374.00	375
89.00	980	179.00	38168	272.00	1368	375.00	66
90.00	62	180.00	26560	273.00	16327	377.00	383
91.00	8517	181.00	12845	274.00	42232	378.00	69
92.00	7419	182.00	1688	275.00	251264	383.00	3351
93.00	50848	183.00	1269	276.00	33064	384.00	764
94.00	3002	184.00	3075	277.00	20184	385.00	188
95.00	777	185.00	17672	278.00	3561	386.00	61
96.00	1981	186.00	146944	279.00	476	390.00	1202
97.00	388	187.00	40960	281.00	393	391.00	1118
98.00	36696	188.00	4025	282.00	411	392.00	692
99.00	30696	189.00	8112	283.00	1948	393.00	124
100.00	2934	190.00	1315	284.00	1831	397.00	368
101.00	20440	191.00	3488	285.00	3285	398.00	82
102.00	1227	192.00	11399	286.00	721	401.00	515
103.00	7514	193.00	12607	288.00	207	402.00	4928
104.00	12377	194.00	2586	289.00	730	403.00	7064
105.00	11100	195.00	512	290.00	777	404.00	2140
106.00	3436	196.00	36624	291.00	402	405.00	409
107.00	148608	198.00	1107456	292.00	904	410.00	106
108.00	24808	199.00	75176	293.00	5115	415.00	286

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5214.D

Date : 08-SEP-2000 10:11

Client ID: DFTPP3L

Instrument: S3.i

Sample Info: ST0908A,DFTPP3L

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5214.D

Spectrum: Avg. Scans 233-235 (7.34), Background Scan 227

Location of Maximum: 198.00

Number of points: 351

m/z	Y	m/z	Y	m/z	Y	m/z	Y
109.00	2494	200.00	5636	294.00	1068	416.00	76
110.00	298816	201.00	6131	296.00	61680	420.00	63
111.00	43272	202.00	134	297.00	8523	421.00	5881
112.00	5147	203.00	6339	298.00	615	422.00	5606
113.00	1849	204.00	35432	299.00	277	423.00	46528
114.00	252	205.00	59224	300.00	85	424.00	9433
115.00	448	206.00	259008	301.00	768	425.00	770
116.00	8444	207.00	32720	302.00	1228	435.00	64
117.00	102976	208.00	7332	303.00	7439	437.00	61
118.00	7133	209.00	2509	304.00	1858	438.00	159
119.00	1345	210.00	1636	305.00	454	439.00	337
120.00	1758	211.00	10964	306.00	54	440.00	116
121.00	817	213.00	854	307.00	92	441.00	128960
122.00	9762	214.00	364	308.00	901	442.00	924032
123.00	15253	215.00	2781	309.00	476	443.00	179776
124.00	6685	216.00	5448	310.00	1016	444.00	16400
125.00	5834	217.00	65656	312.00	228	445.00	944
127.00	591040	218.00	7598	313.00	1004		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\000908_ICAL.B\S3A5214.D

Date : 08-SEP-2000 10:11

Client ID: DFTPP3L

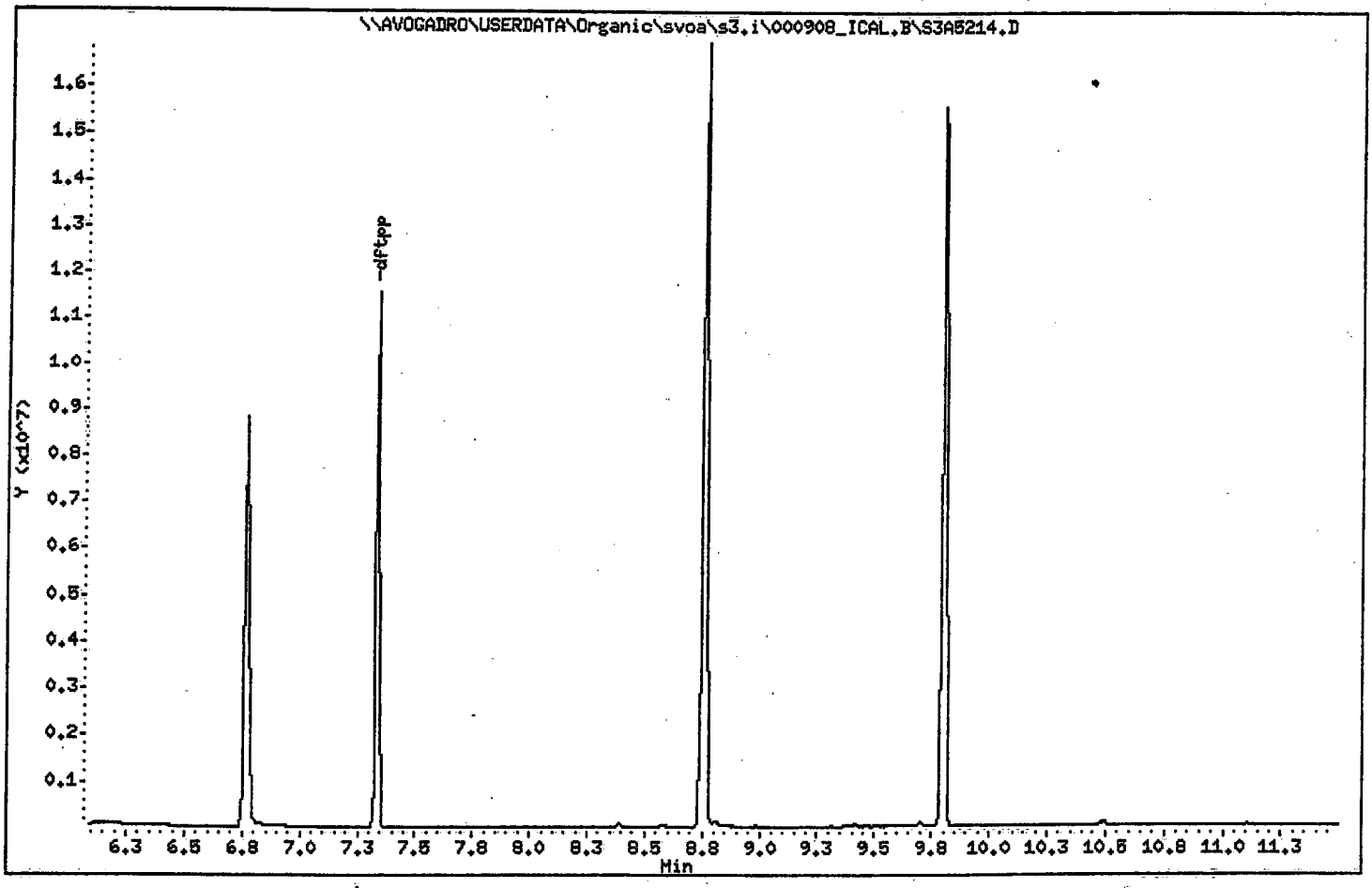
Instrument: S3.i

Sample Info: ST0908A,DFTPP3L

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5880.D

Date : 15-OCT-2000 15:56

Client ID: DFTPP3T

Instrument: S3.i

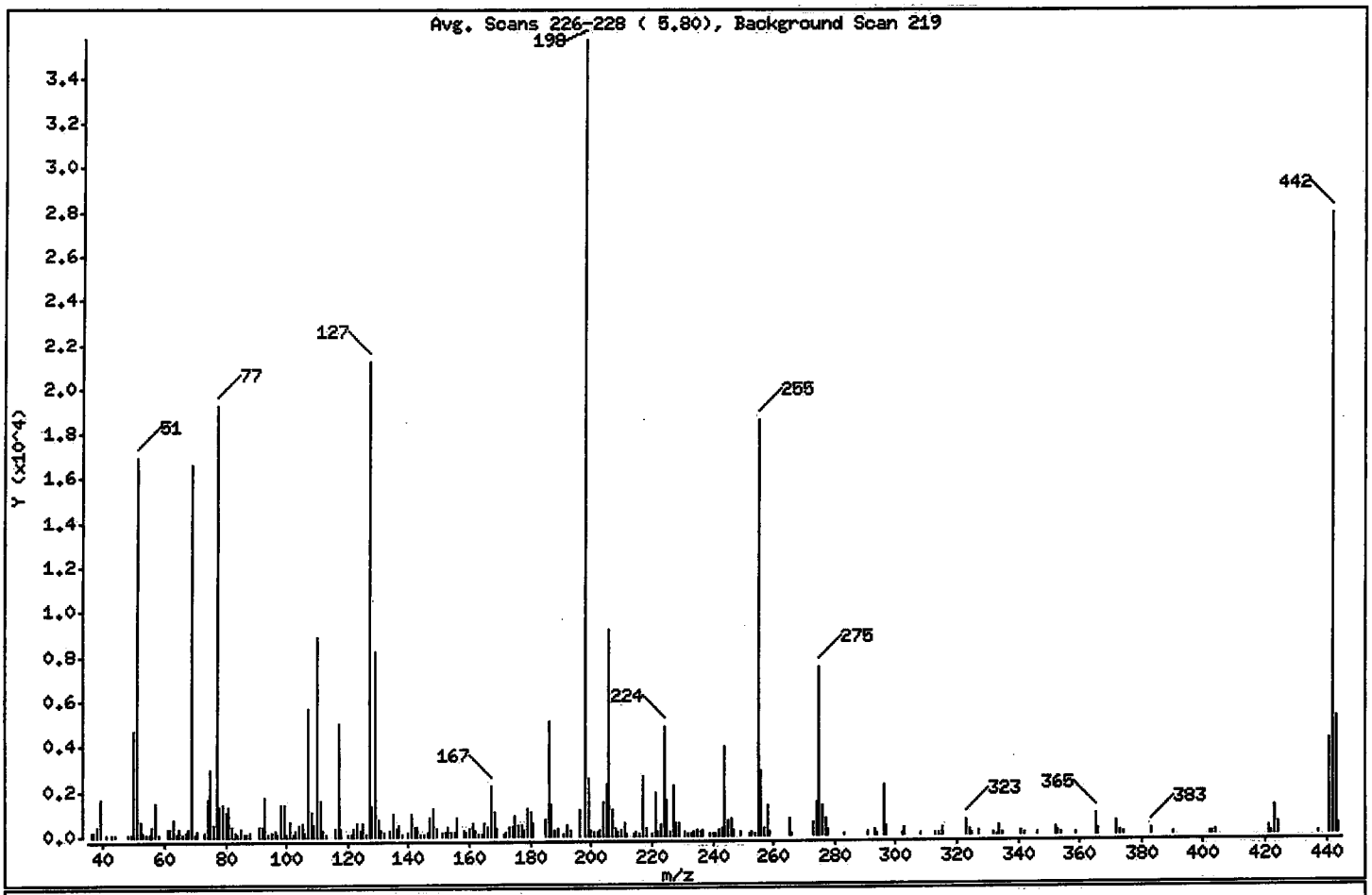
Sample Info: ST1015B,DFTPP3T

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	47.40
68	Less than 2.00% of mass 69	0.92 (1.97)
69	Mass 69 relative abundance	46.58
70	Less than 2.00% of mass 69	0.15 (0.32)
127	25.00 - 75.00% of mass 198	59.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.16
275	10.00 - 30.00% of mass 198	21.02
365	Greater than 0.75% of mass 198	2.55
441	Present, but less than mass 443	11.75
442	40.00 - 110.00% of mass 198	78.23
443	15.00 - 24.00% of mass 442	14.60 (18.66)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5880.D

Date : 15-OCT-2000 15:56

Client ID: DFTPP3T

Instrument: S3.i

Sample Info: ST1015B,DFTPP3T

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5880.D
Spectrum: Avg. Scans 226-228 (5.80), Background Scan 219
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	160	108.00	1091	178.00	246	254.00	51
37.00	158	109.00	533	179.00	1244	255.00	18552
38.00	385	110.00	8903	180.00	1051	256.00	2914
39.00	1611	111.00	1566	181.00	614	257.00	334
41.00	109	112.00	276	185.00	730	258.00	1340
43.00	109	113.00	80	186.00	5091	259.00	141
44.00	123	116.00	367	187.00	1374	265.00	710
48.00	65	117.00	4991	188.00	248	266.00	120
49.00	117	118.00	344	189.00	309	273.00	615
50.00	4682	120.00	77	191.00	94	274.00	1504
51.00	16920	121.00	113	192.00	503	275.00	7505
52.00	688	122.00	349	193.00	214	276.00	1341
53.00	143	123.00	602	196.00	1111	277.00	778
54.00	67	124.00	207	198.00	35696	278.00	239
55.00	89	125.00	564	199.00	2556	283.00	104
56.00	379	126.00	104	200.00	284	291.00	172
57.00	1491	127.00	21240	201.00	150	293.00	276
58.00	56	128.00	1337	202.00	153	294.00	53
61.00	347	129.00	8196	203.00	266	296.00	2236
62.00	332	130.00	779	204.00	1467	297.00	403
63.00	763	131.00	220	205.00	2317	302.00	56
64.00	119	132.00	175	206.00	9204	303.00	320
65.00	340	134.00	221	207.00	1156	308.00	77
66.00	54	135.00	950	208.00	304	313.00	55
67.00	155	136.00	332	209.00	126	314.00	111
68.00	328	137.00	505	210.00	280	315.00	311
69.00	16624	138.00	75	211.00	566	323.00	687
70.00	54	140.00	152	212.00	51	324.00	277
71.00	249	141.00	1014	214.00	54	325.00	99
73.00	197	142.00	401	215.00	188	327.00	166
74.00	1608	143.00	409	216.00	111	332.00	57
75.00	2942	144.00	83	217.00	2600	333.00	12
76.00	534	145.00	66	218.00	337	334.00	443
77.00	19272	146.00	143	220.00	67	335.00	102
78.00	1313	147.00	817	221.00	1887	341.00	134

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5880.D

Date : 15-OCT-2000 15:56

Client ID: DFTPP3T

Instrument: S3.i

Sample Info: ST1015B,DFTPP3T

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5880.D
Spectrum: Avg. Scans 226-228 (5.80), Background Scan 219
Location of Maximum: 198.00
Number of points: 246

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	1431	148.00	1224	222.00	137	342.00	52
80.00	1046	149.00	367	223.00	504	346.00	123
81.00	1349	151.00	169	224.00	4817	352.00	306
82.00	385	152.00	145	225.00	1580	353.00	171
83.00	151	153.00	384	226.00	196	354.00	57
84.00	100	154.00	203	227.00	2209	359.00	56
85.00	306	155.00	200	228.00	589	365.00	911
86.00	79	156.00	846	229.00	583	366.00	206
87.00	101	158.00	270	231.00	127	372.00	576
88.00	203	159.00	153	232.00	80	373.00	139
91.00	434	160.00	370	233.00	107	374.00	73
92.00	431	161.00	536	234.00	143	383.00	221
93.00	1766	162.00	238	235.00	239	390.00	73
94.00	64	163.00	65	236.00	192	402.00	92
95.00	184	164.00	65	237.00	217	403.00	92
96.00	225	165.00	574	239.00	116	404.00	125
97.00	54	166.00	385	240.00	77	421.00	337
98.00	1384	167.00	2201	241.00	111	422.00	70
99.00	1423	168.00	1095	242.00	281	423.00	1266
100.00	51	169.00	289	243.00	328	424.00	533
101.00	619	171.00	52	244.00	3979	437.00	53
102.00	51	172.00	139	245.00	647	441.00	4194
103.00	222	173.00	405	246.00	774	442.00	27920
104.00	511	174.00	418	247.00	224	443.00	5212
105.00	604	175.00	943	249.00	140	444.00	378
106.00	187	176.00	464	252.00	74		
107.00	5708	177.00	499	253.00	153		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001015olm.B\S3A5880.D

Date : 15-OCT-2000 15:56

Client ID: DFTPP3T

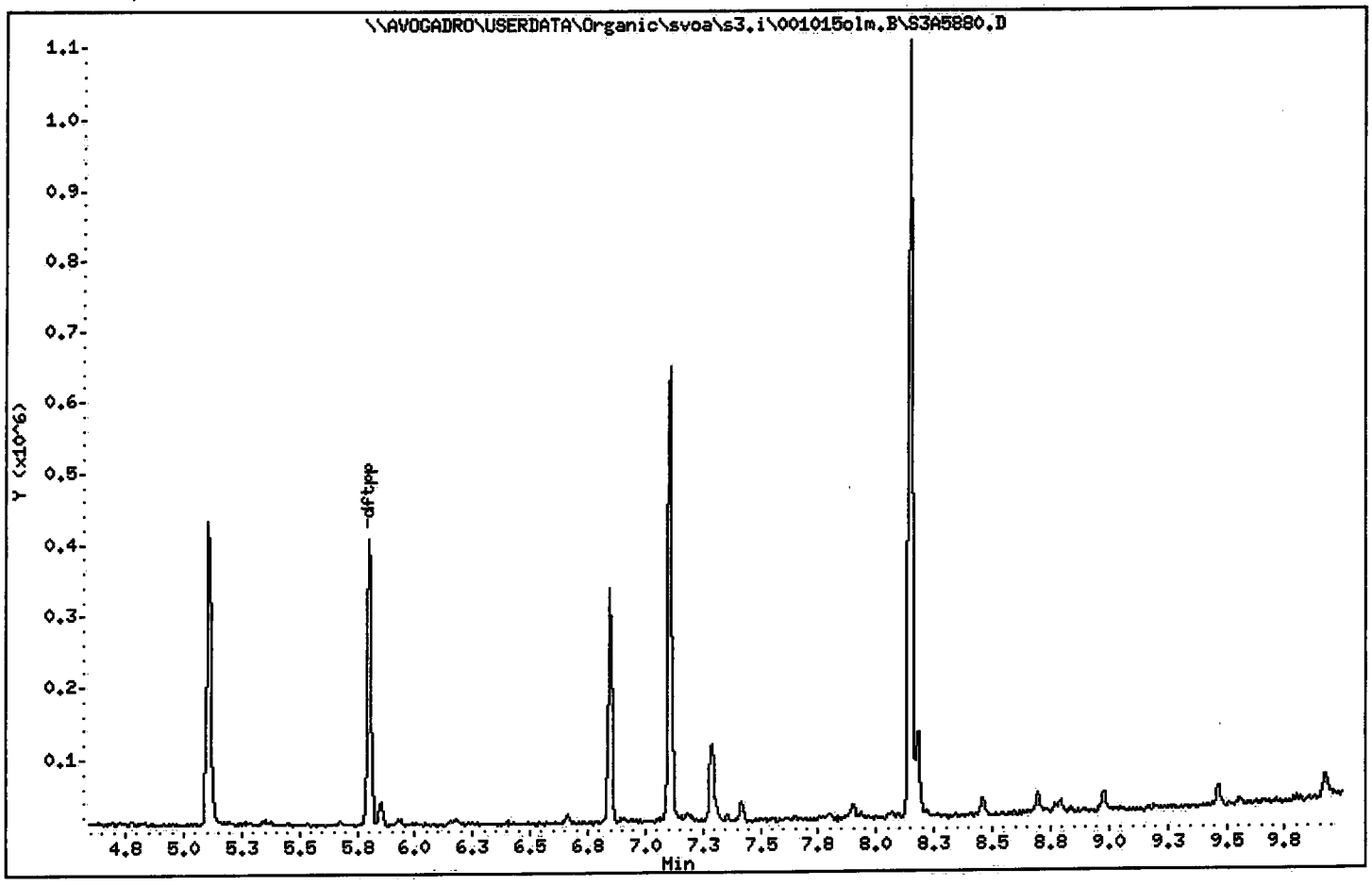
Instrument: S3.i

Sample Info: ST1015B,DFTPP3T

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5915.D

Date : 17-OCT-2000 10:04

Client ID: DFTPP3W

Instrument: S3.i

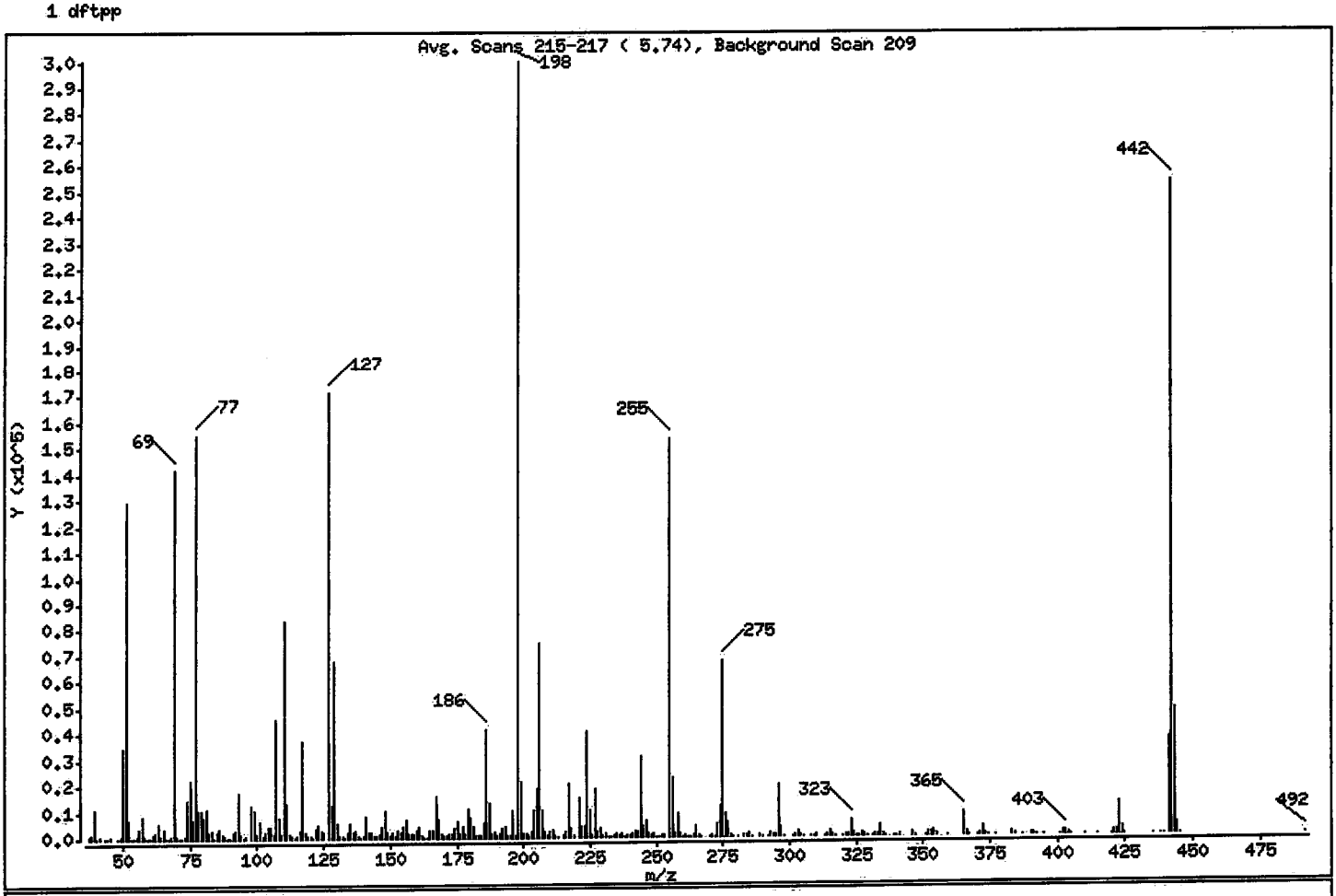
Sample Info: ST1017A,DFTPP3W

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	43.13
68	Less than 2.00% of mass 69	0.18 (0.38)
69	Mass 69 relative abundance	47.21
70	Less than 2.00% of mass 69	0.17 (0.36)
127	25.00 - 75.00% of mass 198	57.04
197	Less than 1.00% of mass 198	0.18
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	22.50
365	Greater than 0.75% of mass 198	3.07
441	Present, but less than mass 443	12.44
442	40.00 - 110.00% of mass 198	84.65
443	15.00 - 24.00% of mass 442	16.10 (19.01)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5915.D

Date : 17-OCT-2000 10:04

Client ID: DFTPP3W

Instrument: S3.i

Sample Info: ST1017A,DFTPP3W

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5915.D
Spectrum: Avg. Scans 215-217 (5.74), Background Scan 209
Location of Maximum: 198.00
Number of points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	459	123.00	5126	206.00	74992	298.00	284
38.00	1701	124.00	2485	207.00	10698	301.00	267
39.00	10884	125.00	2014	208.00	2307	302.00	354
40.00	24	127.00	171328	209.00	715	303.00	2336
41.00	620	128.00	12452	210.00	2146	304.00	454
43.00	4	129.00	67856	211.00	2814	305.00	110
44.00	14	130.00	5685	212.00	729	308.00	262
45.00	368	131.00	949	213.00	194	309.00	161
48.00	123	132.00	806	215.00	836	310.00	431
49.00	1006	133.00	214	216.00	1830	313.00	177
50.00	34824	134.00	2121	217.00	20712	314.00	1030
51.00	129560	135.00	5761	218.00	3187	315.00	2195
52.00	7081	136.00	1771	219.00	373	316.00	912
53.00	139	137.00	2764	221.00	15098	317.00	171
54.00	78	138.00	680	222.00	4000	320.00	90
55.00	660	139.00	343	223.00	4215	321.00	648
56.00	3646	140.00	819	224.00	40520	322.00	387
57.00	8591	141.00	7977	225.00	10108	323.00	6482
58.00	599	142.00	2056	226.00	986	324.00	1340
59.00	167	143.00	1743	227.00	18808	325.00	82
60.00	142	144.00	794	228.00	2161	326.00	96
61.00	1438	145.00	529	229.00	3457	327.00	1619
62.00	1858	146.00	1543	230.00	549	328.00	735
63.00	5794	147.00	4130	231.00	1329	329.00	139
64.00	701	148.00	10650	232.00	161	331.00	66
65.00	3232	149.00	1884	233.00	311	332.00	397
66.00	161	150.00	704	234.00	1034	333.00	713
67.00	218	151.00	1896	235.00	1730	334.00	4460
68.00	534	152.00	393	236.00	1010	335.00	1012
69.00	141760	153.00	2892	237.00	1572	336.00	117
70.00	516	154.00	1903	238.00	135	339.00	148
71.00	288	155.00	4301	239.00	509	340.00	51
72.00	70	156.00	7125	240.00	519	341.00	694
73.00	687	157.00	1308	241.00	1084	346.00	1305
74.00	14615	158.00	1236	242.00	2195	347.00	301

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5915.D

Date : 17-OCT-2000 10:04

Client ID: DFTPP3W

Instrument: S3.i

Sample Info: ST1017A,DFTPP3W

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5915.D
Spectrum: Avg. Scans 215-217 (5.74), Background Scan 209
Location of Maximum: 198.00
Number of points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	22424	159.00	1498	243.00	1945	351.00	107
76.00	7105	160.00	2888	244.00	31280	352.00	1657
77.00	155136	161.00	4011	245.00	4350	353.00	1298
78.00	10118	162.00	1003	246.00	6384	354.00	1856
79.00	10725	163.00	343	247.00	1048	355.00	418
80.00	7931	164.00	270	248.00	359	359.00	114
81.00	10775	165.00	3084	249.00	1194	365.00	9221
82.00	2409	166.00	2760	250.00	273	366.00	1328
83.00	2547	167.00	15968	251.00	165	367.00	253
84.00	277	168.00	7163	252.00	575	370.00	147
85.00	2083	169.00	1419	253.00	765	371.00	382
86.00	3366	170.00	686	255.00	153664	372.00	3769
87.00	1507	171.00	540	256.00	23016	373.00	932
88.00	470	172.00	1488	257.00	1669	374.00	59
89.00	199	173.00	1503	258.00	9039	377.00	210
90.00	130	174.00	3246	259.00	1464	383.00	1247
91.00	2276	175.00	5918	260.00	150	384.00	358
92.00	2493	176.00	1624	261.00	380	387.00	51
93.00	17392	177.00	3872	262.00	71	390.00	359
94.00	1241	178.00	1410	263.00	157	391.00	408
95.00	103	179.00	11322	264.00	415	392.00	250
96.00	897	180.00	7697	265.00	3808	395.00	83
98.00	12797	181.00	4039	266.00	515	401.00	164
99.00	10147	182.00	691	267.00	108	402.00	1423
100.00	1223	183.00	563	270.00	232	403.00	1696
101.00	6417	184.00	957	271.00	438	404.00	764
102.00	430	185.00	5370	272.00	283	405.00	209
103.00	2267	186.00	41592	273.00	4582	410.00	51
104.00	4223	187.00	12885	274.00	12057	415.00	50
105.00	4182	188.00	1258	275.00	67608	420.00	56
106.00	1240	189.00	2393	276.00	9290	421.00	1373
107.00	45872	190.00	513	277.00	5786	422.00	1561
108.00	7785	191.00	1463	278.00	958	423.00	12367
109.00	1263	192.00	3693	279.00	290	424.00	2551
110.00	83632	193.00	3985	281.00	90	425.00	245

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5915.D

Date : 17-OCT-2000 10:04

Client ID: DFTPP3W

Instrument: S3.i

Sample Info: ST1017A,DFTPP3W

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5915.D
Spectrum: Avg. Scans 215-217 (5.74), Background Scan 209
Location of Maximum: 198.00
Number of points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	13204	194.00	962	283.00	464	435.00	51
112.00	1508	195.00	440	284.00	519	438.00	54
113.00	751	196.00	10136	285.00	1291	439.00	51
114.00	56	197.00	553	286.00	327	441.00	37368
115.00	436	198.00	300416	289.00	378	442.00	254272
116.00	2788	199.00	21152	290.00	196	443.00	48352
117.00	37264	200.00	1388	292.00	208	444.00	4398
118.00	2325	201.00	1261	293.00	1459	445.00	295
119.00	489	202.00	893	294.00	497	492.00	72
120.00	865	203.00	2158	295.00	396		
121.00	75	204.00	10545	296.00	19776		
122.00	3379	205.00	18576	297.00	3232		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5915.D

Date : 17-OCT-2000 10:04

Client ID: DFTPP3W

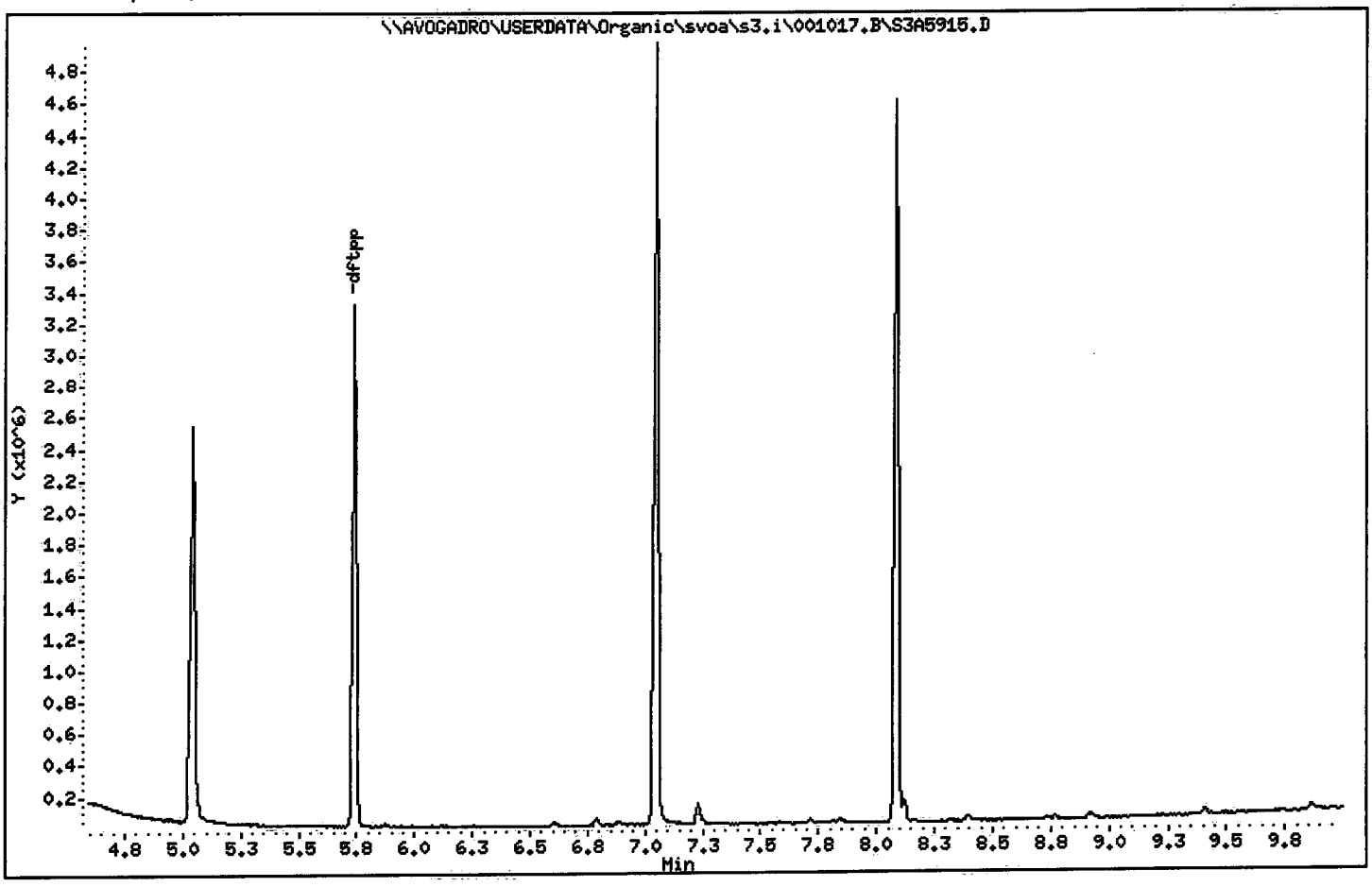
Instrument: S3.i

Sample Info: ST1017A,DFTPP3W

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5961.D

Date : 20-OCT-2000 19:22

Client ID: DFTPP3B

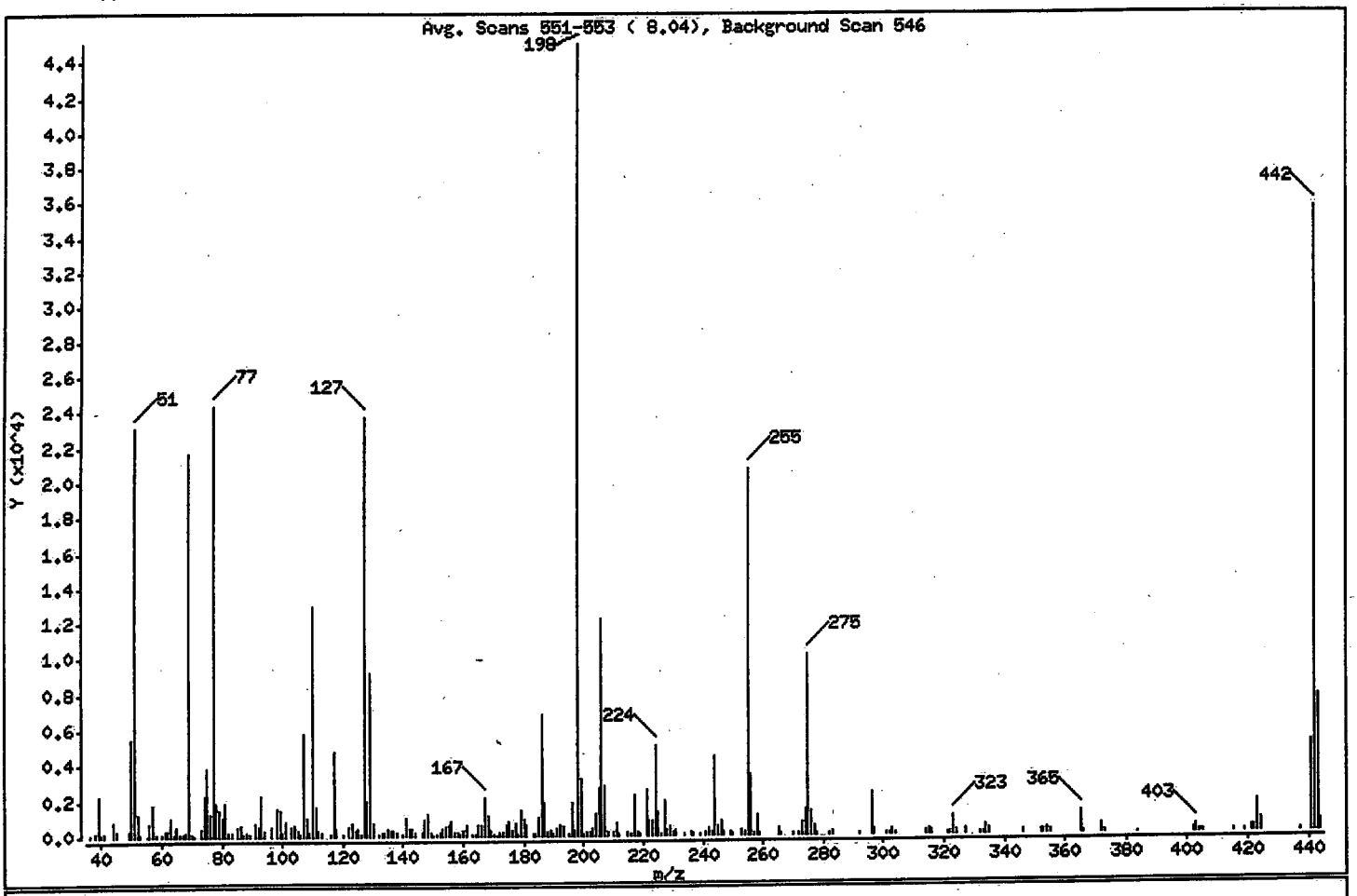
Instrument: S3.i

Sample Info: ST1019C,DFTPP3B

Operator: QY

Column phase:
1 dftpp

Column diameter: 2.00



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	51.24
68	Less than 2.00% of mass 69	0.36 (0.75)
69	Mass 69 relative abundance	48.08
70	Less than 2.00% of mass 69	0.26 (0.53)
127	25.00 - 75.00% of mass 198	52.63
197	Less than 1.00% of mass 198	0.63
199	5.00 - 9.00% of mass 198	7.15
275	10.00 - 30.00% of mass 198	22.49
365	Greater than 0.75% of mass 198	2.84
441	Present, but less than mass 443	11.32
442	40.00 - 110.00% of mass 198	79.18
443	15.00 - 24.00% of mass 442	17.02 (21.49)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5961.D

Date : 20-OCT-2000 19:22

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: ST1019G,DFTPP3B

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5961.D

Spectrum: Avg. Scans 551-553 (8.04), Background Scan 546

Location of Maximum: 198.00

Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	71	112.00	331	183.00	137	258.00	1164
38.00	216	113.00	186	184.00	120	259.00	116
39.00	2274	116.00	137	185.00	1006	265.00	387
40.00	154	117.00	4733	186.00	6830	266.00	129
41.00	189	118.00	363	187.00	1834	270.00	84
44.00	827	120.00	79	188.00	180	272.00	145
45.00	273	122.00	512	189.00	294	273.00	738
49.00	303	123.00	767	190.00	58	274.00	1473
50.00	5536	124.00	294	191.00	415	275.00	10133
51.00	23080	125.00	409	192.00	653	276.00	1318
52.00	1265	126.00	130	193.00	468	277.00	516
53.00	64	127.00	23712	195.00	74	278.00	154
55.00	19	128.00	1958	196.00	1861	282.00	58
56.00	720	129.00	9172	197.00	284	283.00	225
57.00	1770	130.00	724	198.00	45056	292.00	104
58.00	134	132.00	152	199.00	3222	296.00	2372
60.00	130	133.00	232	200.00	67	297.00	325
61.00	361	134.00	223	201.00	215	301.00	53
62.00	342	135.00	443	202.00	179	302.00	57
63.00	1024	136.00	300	203.00	366	303.00	342
64.00	114	137.00	266	204.00	1245	304.00	93
65.00	565	138.00	191	205.00	2729	314.00	191
66.00	126	140.00	107	206.00	12223	315.00	302
67.00	57	141.00	1075	207.00	2838	316.00	255
68.00	163	142.00	430	208.00	209	321.00	57
69.00	21664	143.00	383	210.00	178	322.00	54
70.00	115	144.00	171	211.00	695	323.00	1028
71.00	51	146.00	179	212.00	116	324.00	164
73.00	395	147.00	943	215.00	220	327.00	283
74.00	2260	148.00	1229	216.00	77	332.00	66
75.00	3811	149.00	220	217.00	2320	333.00	54
76.00	1249	150.00	51	218.00	205	334.00	533
77.00	24384	151.00	90	219.00	66	335.00	343
78.00	1884	152.00	192	221.00	2612	346.00	193
79.00	1457	153.00	434	222.00	778	352.00	179

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5961.D

Date : 20-OCT-2000 19:22

Client ID: DFTPP3B

Instrument: S3.i

Sample Info: ST1019G,DFTPP3B

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5961.D
Spectrum: Avg. Scans 551-553 (8.04), Background Scan 546
Location of Maximum: 198.00
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	1057	154.00	477	223.00	797	353.00	257
81.00	1848	155.00	605	224.00	5089	354.00	288
82.00	243	156.00	804	225.00	1364	355.00	197
83.00	258	157.00	250	226.00	118	365.00	1280
85.00	492	158.00	208	227.00	2009	366.00	96
86.00	647	159.00	60	228.00	335	372.00	549
87.00	133	160.00	311	229.00	541	373.00	79
88.00	177	161.00	586	230.00	169	384.00	50
89.00	67	163.00	138	231.00	286	402.00	171
91.00	734	164.00	147	234.00	145	403.00	378
92.00	568	165.00	631	236.00	210	404.00	72
93.00	2249	166.00	639	237.00	121	405.00	58
94.00	274	167.00	2194	239.00	55	415.00	80
96.00	538	168.00	1164	241.00	224	419.00	60
98.00	1604	169.00	273	242.00	406	421.00	276
99.00	1500	170.00	60	243.00	239	422.00	343
100.00	208	171.00	50	244.00	4444	423.00	1756
101.00	810	172.00	241	245.00	547	424.00	754
103.00	523	173.00	244	246.00	860	437.00	115
104.00	634	174.00	576	247.00	238	441.00	5101
105.00	337	175.00	844	249.00	197	442.00	35672
106.00	116	176.00	347	250.00	77	443.00	7667
107.00	5849	177.00	701	253.00	305	444.00	630
108.00	1051	178.00	61	254.00	184		
109.00	205	179.00	1449	255.00	20688		
110.00	12933	180.00	958	256.00	3421		
111.00	1678	181.00	572	257.00	94		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001020_OLM_I.B\S3A5961.D

Date : 20-OCT-2000 19:22

Client ID: DFTPP3B

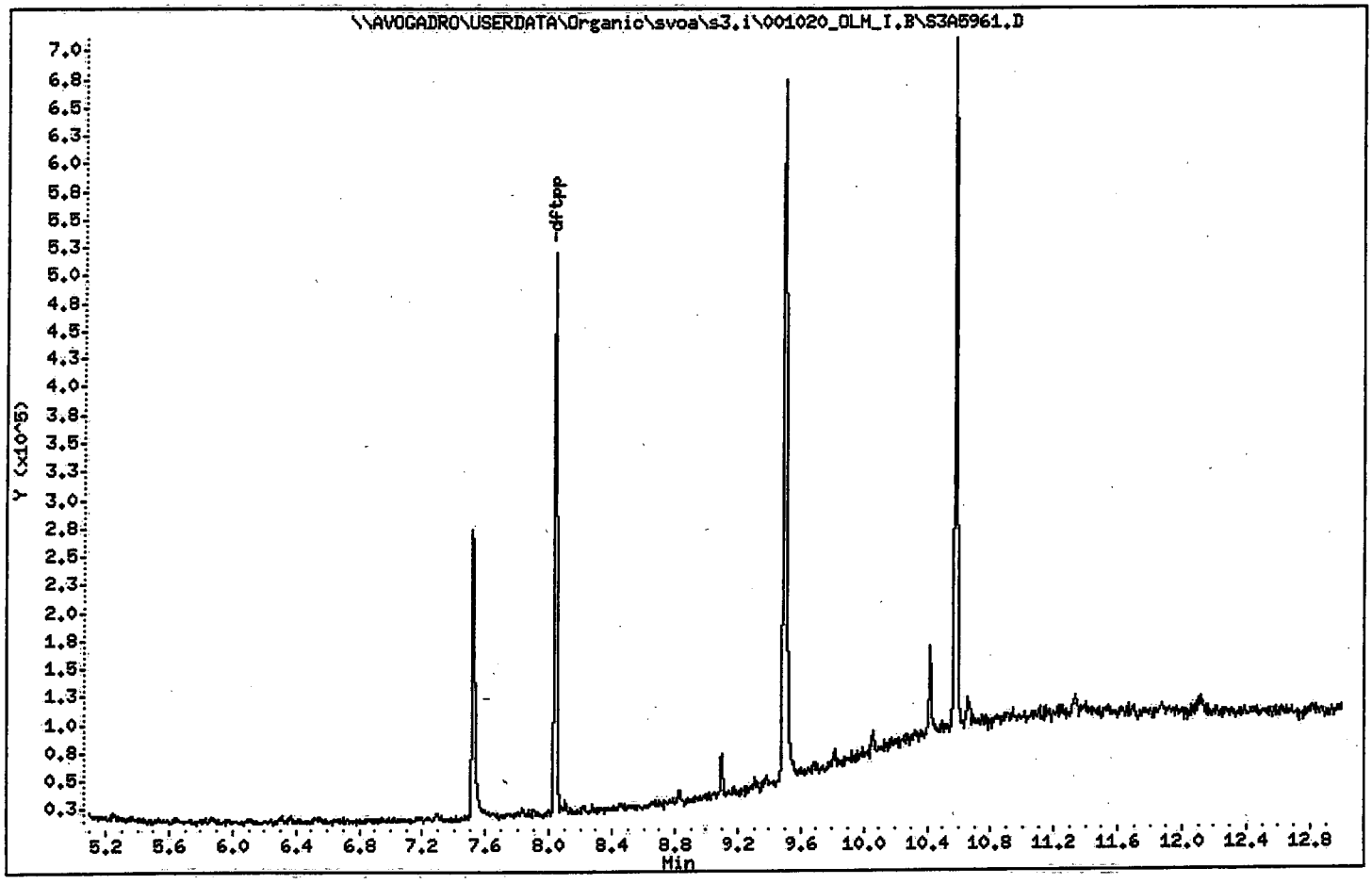
Instrument: S3.i

Sample Info: ST1019C,DFTPP3B

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5982.D

Date : 23-OCT-2000 10:39

Client ID: DFTPP3D

Instrument: S3.i

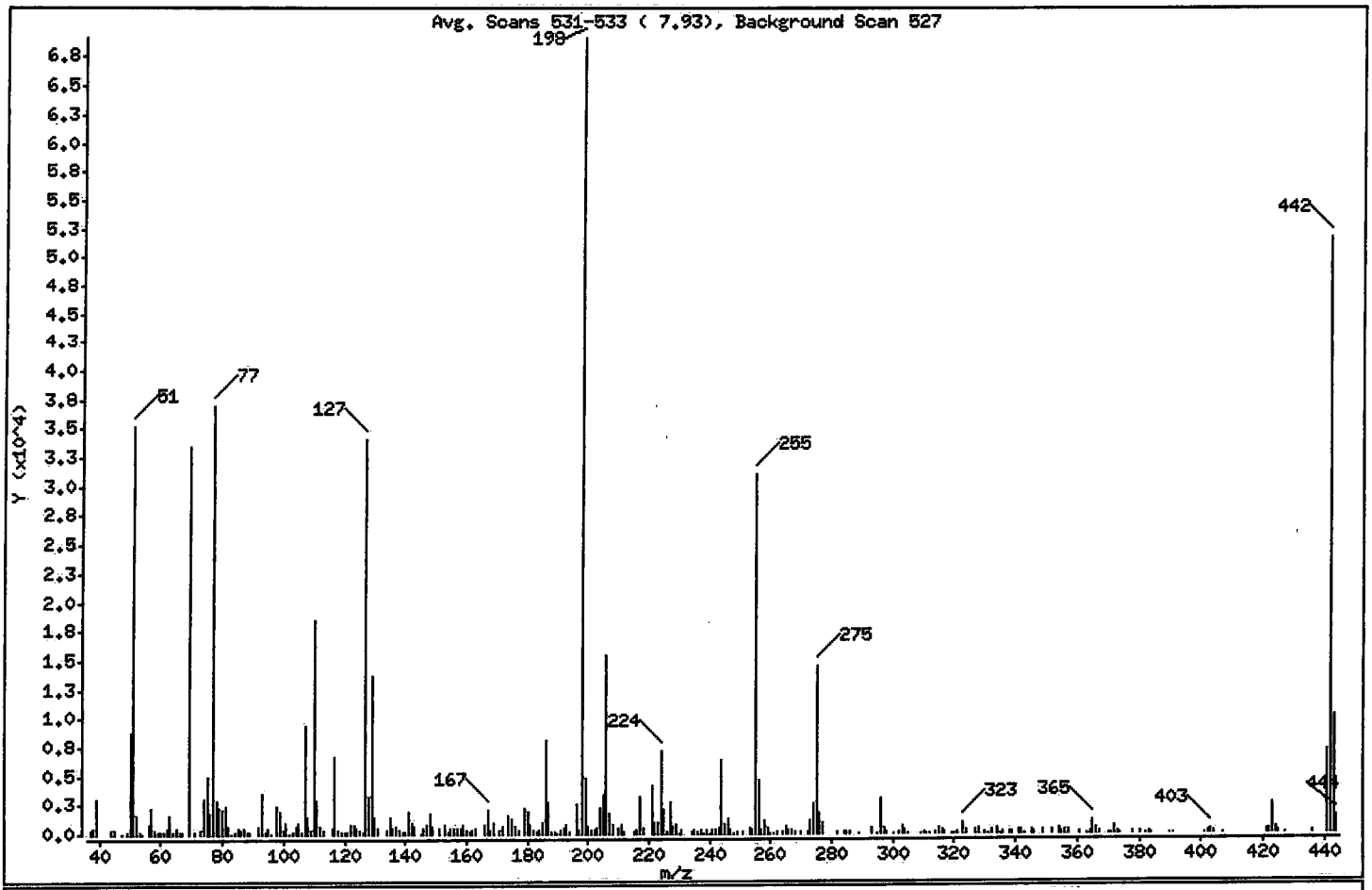
Sample Info: ST1023A,DFTPP3D

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	50.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.33
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	49.25
197	Less than 1.00% of mass 198	0.44
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 30.00% of mass 198	20.97
365	Greater than 0.75% of mass 198	1.73
441	Present, but less than mass 443	10.47
442	40.00 - 110.00% of mass 198	74.99
443	15.00 - 24.00% of mass 442	14.69 (19.59)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5982.D

Date : 23-OCT-2000 10:39

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: ST1023A,DFTPP3D

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5982.D
Spectrum: Avg. Scans 531-533 (7.93), Background Scan 527
Location of Maximum: 198.00
Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	356	124.00	512	207.00	1736	304.00	257
38.00	554	125.00	328	208.00	762	305.00	62
39.00	3103	126.00	152	210.00	456	309.00	58
44.00	252	127.00	34064	211.00	765	310.00	91
45.00	245	128.00	3181	212.00	196	311.00	56
47.00	8	129.00	13716	215.00	136	312.00	68
49.00	178	130.00	1487	216.00	355	314.00	199
50.00	8719	131.00	535	217.00	3198	315.00	482
51.00	35176	134.00	297	218.00	453	316.00	273
52.00	1532	135.00	1491	221.00	4210	317.00	179
53.00	203	136.00	409	222.00	942	319.00	76
54.00	52	137.00	613	223.00	934	320.00	57
56.00	726	138.00	327	224.00	7202	321.00	81
57.00	2214	139.00	170	225.00	2012	323.00	982
58.00	266	140.00	224	226.00	123	324.00	368
59.00	155	141.00	1839	227.00	2756	327.00	285
60.00	136	142.00	886	228.00	562	328.00	403
61.00	169	143.00	607	229.00	848	330.00	214
62.00	525	145.00	62	230.00	61	331.00	70
63.00	1600	146.00	404	231.00	244	332.00	243
64.00	198	147.00	831	234.00	212	334.00	477
65.00	552	148.00	1774	235.00	264	335.00	33
66.00	127	149.00	623	236.00	105	336.00	137
67.00	158	151.00	474	237.00	322	338.00	115
69.00	33424	153.00	778	238.00	50	339.00	195
71.00	180	154.00	222	239.00	326	341.00	376
73.00	367	155.00	544	240.00	70	342.00	267
74.00	3006	156.00	556	241.00	269	343.00	9
75.00	4910	157.00	554	242.00	355	345.00	245
76.00	1720	158.00	486	243.00	478	346.00	197
77.00	36984	159.00	725	244.00	6359	349.00	244
78.00	2858	160.00	363	245.00	860	352.00	380
79.00	2162	161.00	138	246.00	1288	354.00	551
80.00	2016	162.00	276	247.00	261	355.00	113
81.00	2312	163.00	513	248.00	59	356.00	317

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5982.D

Date : 23-OCT-2000 10:39

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: ST1023A,DFTPP3D

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5982.D
Spectrum: Avg. Scans 531-533 (7.93), Background Scan 527
Location of Maximum: 198.00
Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	659	166.00	723	249.00	163	357.00	249
83.00	57	167.00	2110	251.00	148	361.00	126
84.00	99	168.00	255	253.00	507	363.00	58
85.00	449	169.00	981	254.00	326	364.00	104
86.00	362	171.00	375	255.00	31104	365.00	1195
87.00	457	172.00	689	256.00	4650	366.00	506
88.00	112	174.00	1631	257.00	393	367.00	131
89.00	213	175.00	1210	258.00	1136	370.00	69
92.00	597	176.00	686	259.00	548	371.00	61
93.00	3532	177.00	341	260.00	50	372.00	641
94.00	202	179.00	2203	261.00	68	373.00	145
95.00	499	180.00	1967	262.00	128	374.00	69
96.00	29	181.00	733	264.00	207	378.00	143
98.00	2394	182.00	335	265.00	639	380.00	166
99.00	1869	183.00	166	266.00	358	382.00	65
100.00	274	184.00	331	267.00	266	383.00	239
101.00	943	185.00	966	268.00	132	384.00	78
102.00	69	186.00	8101	270.00	80	390.00	59
103.00	83	187.00	2657	272.00	153	391.00	70
104.00	654	188.00	106	273.00	1160	401.00	69
105.00	946	189.00	138	274.00	2509	402.00	226
106.00	189	190.00	53	275.00	14502	403.00	342
107.00	9358	191.00	372	276.00	1768	404.00	231
108.00	1498	192.00	447	277.00	1027	407.00	51
109.00	296	193.00	805	282.00	179	421.00	306
110.00	18504	194.00	95	284.00	95	422.00	352
111.00	2798	196.00	2525	285.00	203	423.00	2560
112.00	603	197.00	301	286.00	127	424.00	495
113.00	257	198.00	69168	289.00	72	425.00	81
116.00	504	199.00	4781	293.00	403	427.00	77
117.00	6718	200.00	560	295.00	61	436.00	80
118.00	271	201.00	363	296.00	2970	441.00	7240
119.00	81	202.00	324	297.00	484	442.00	51864
120.00	226	203.00	536	298.00	113	443.00	10163
121.00	224	204.00	2216	300.00	52	444.00	1470

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5982.D

Date : 23-OCT-2000 10:39

Client ID: DFTPP3D

Instrument: S3.i

Sample Info: ST1023A,DFTPP3D

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A5982.D
Spectrum: Avg. Scans 531-533 (7.93), Background Scan 527
Location of Maximum: 198.00
Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	796	205.00	3315	302.00	89		
123.00	788	206.00	15430	303.00	689		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5982.D

Date : 23-OCT-2000 10:39

Client ID: DFTPP3D

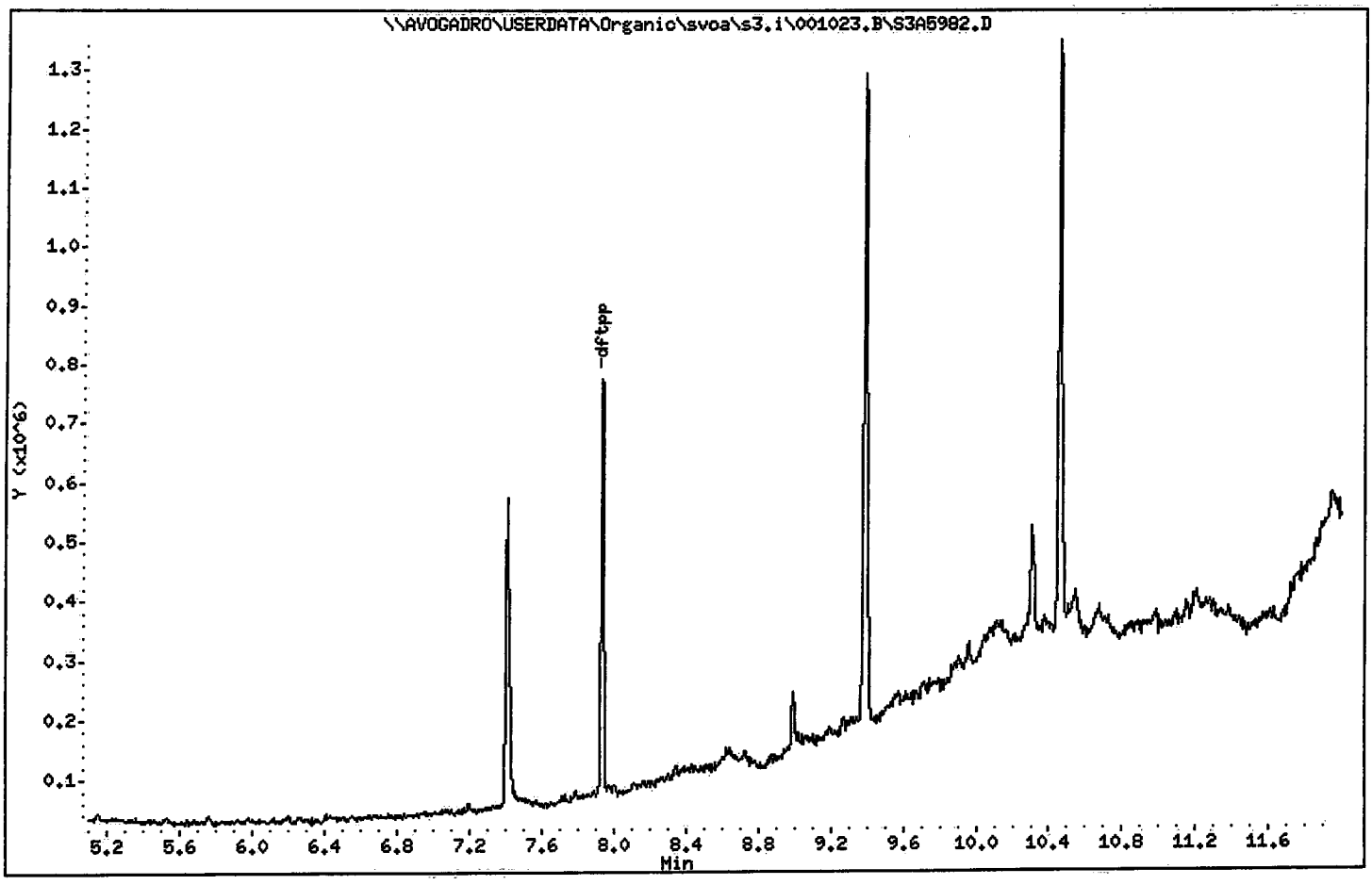
Instrument: S3.i

Sample Info: ST1023A,DFTPP3D

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6004.D

Date : 24-OCT-2000 08:53

Client ID: DFTPP3F

Instrument: S3.i

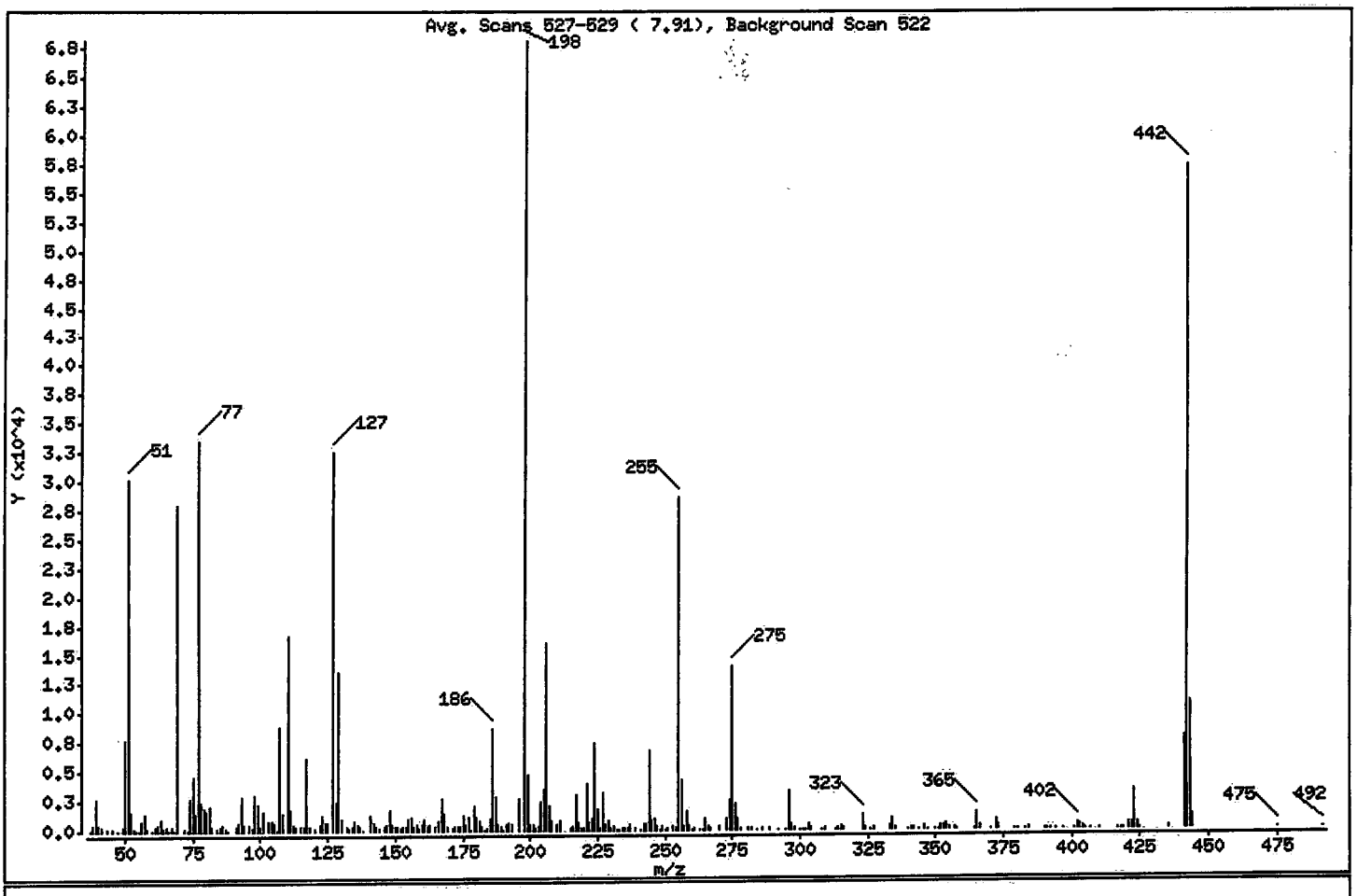
Sample Info: ST1024A,DFTPP3F

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	44.20
68	Less than 2.00% of mass 69	0.02 (0.04)
69	Mass 69 relative abundance	41.10
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	47.63
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.02
275	10.00 - 30.00% of mass 198	20.54
365	Greater than 0.75% of mass 198	2.14
441	Present, but less than mass 443	11.69
442	40.00 - 110.00% of mass 198	84.35
443	15.00 - 24.00% of mass 442	16.00 (18.97)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6004.D

Date : 24-OCT-2000 08:53

Client ID: DFTPP3F

Instrument: S3.i

Sample Info: ST1024A,DFTPP3F

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A6004.D
Spectrum: Avg. Scans 527-529 (7.91), Background Scan 522
Location of Maximum: 198.00
Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	30	124.00	638	205.00	3397	298.00	156
38.00	510	125.00	629	206.00	15960	300.00	53
39.00	2605	127.00	32472	207.00	1986	301.00	69
40.00	482	128.00	2335	208.00	797	302.00	69
41.00	247	129.00	13498	210.00	493	303.00	499
43.00	173	130.00	1014	211.00	774	304.00	150
45.00	178	132.00	388	215.00	155	308.00	59
47.00	31	133.00	85	216.00	273	309.00	123
49.00	333	134.00	357	217.00	2947	313.00	74
50.00	7669	135.00	844	218.00	560	314.00	94
51.00	30128	136.00	479	219.00	170	315.00	265
52.00	1634	137.00	390	220.00	182	316.00	133
53.00	101	138.00	55	221.00	3941	323.00	1305
54.00	24	141.00	1262	222.00	585	324.00	220
55.00	61	142.00	577	223.00	946	326.00	55
56.00	789	143.00	349	224.00	7429	327.00	150
57.00	1395	144.00	169	225.00	1718	333.00	282
58.00	149	146.00	375	226.00	214	334.00	973
60.00	11	147.00	428	227.00	3069	335.00	231
61.00	367	148.00	1712	228.00	436	340.00	70
62.00	402	149.00	446	229.00	763	341.00	226
63.00	995	150.00	256	230.00	225	342.00	168
64.00	215	151.00	282	231.00	288	344.00	51
65.00	358	152.00	181	232.00	62	346.00	295
66.00	58	153.00	291	233.00	59	347.00	75
67.00	299	154.00	323	234.00	166	350.00	66
68.00	12	155.00	922	235.00	228	351.00	51
69.00	28016	156.00	1024	236.00	143	352.00	337
72.00	136	157.00	278	237.00	404	353.00	289
73.00	60	158.00	418	239.00	86	354.00	434
74.00	2712	159.00	231	241.00	55	355.00	228
75.00	4526	160.00	434	242.00	526	357.00	85
76.00	1475	161.00	973	243.00	531	358.00	54
77.00	33464	162.00	351	244.00	6753	364.00	73
78.00	2362	163.00	398	245.00	812	365.00	1460

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6004.D

Date : 24-OCT-2000 08:53

Client ID: DFTPP3F

Instrument: S3.i

Sample Info: ST1024A,DFTPP3F

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A6004.D
Spectrum: Avg. Scans 527-529 (7.91), Background Scan 522
Location of Maximum: 198.00
Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	1812	165.00	259	246.00	977	366.00	283
80.00	1539	166.00	775	247.00	378	370.00	56
81.00	2117	167.00	2719	248.00	65	372.00	724
82.00	269	168.00	1374	249.00	333	373.00	295
84.00	86	169.00	279	250.00	72	379.00	50
85.00	376	171.00	192	251.00	132	380.00	52
86.00	430	172.00	310	253.00	348	383.00	60
87.00	175	173.00	276	254.00	98	384.00	160
88.00	75	174.00	389	255.00	28552	390.00	59
91.00	365	175.00	1282	256.00	4254	391.00	58
92.00	580	176.00	425	257.00	251	392.00	75
93.00	2893	177.00	1148	258.00	1563	394.00	51
94.00	413	178.00	60	259.00	260	397.00	68
96.00	461	179.00	2095	260.00	50	401.00	64
97.00	117	180.00	1023	261.00	120	402.00	465
98.00	2930	181.00	753	263.00	50	403.00	343
99.00	2129	182.00	268	264.00	59	404.00	192
100.00	284	183.00	68	265.00	938	405.00	66
101.00	1537	184.00	139	266.00	304	407.00	57
103.00	763	185.00	1005	267.00	201	410.00	64
104.00	730	186.00	8577	270.00	237	417.00	51
105.00	620	187.00	2779	273.00	937	418.00	57
106.00	43	188.00	445	274.00	2477	419.00	57
107.00	8811	189.00	375	275.00	14006	421.00	502
108.00	1387	190.00	63	276.00	2145	422.00	413
110.00	16600	191.00	471	277.00	939	423.00	3351
111.00	1751	192.00	555	278.00	96	424.00	537
112.00	433	193.00	547	281.00	85	425.00	51
113.00	289	196.00	2625	282.00	150	435.00	96
115.00	361	198.00	68168	284.00	69	441.00	7904
116.00	349	199.00	4786	286.00	96	442.00	57504
117.00	6174	200.00	526	289.00	207	443.00	10906
118.00	326	201.00	492	292.00	51	444.00	1042
120.00	109	202.00	141	295.00	70	475.00	55
122.00	411	203.00	391	296.00	3331	492.00	58

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6004.D

Date : 24-OCT-2000 08:53

Client ID: DFTPP3F

Instrument: S3.i

Sample Info: ST1024A,DFTPP3F

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A6004.D
Spectrum: Avg. Scans 527-529 (7.91), Background Scan 522
Location of Maximum: 198.00
Number of points: 283

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	1194	204.00	2382	297.00	541		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6004.D

Date : 24-OCT-2000 08:53

Client ID: DFTPP3F

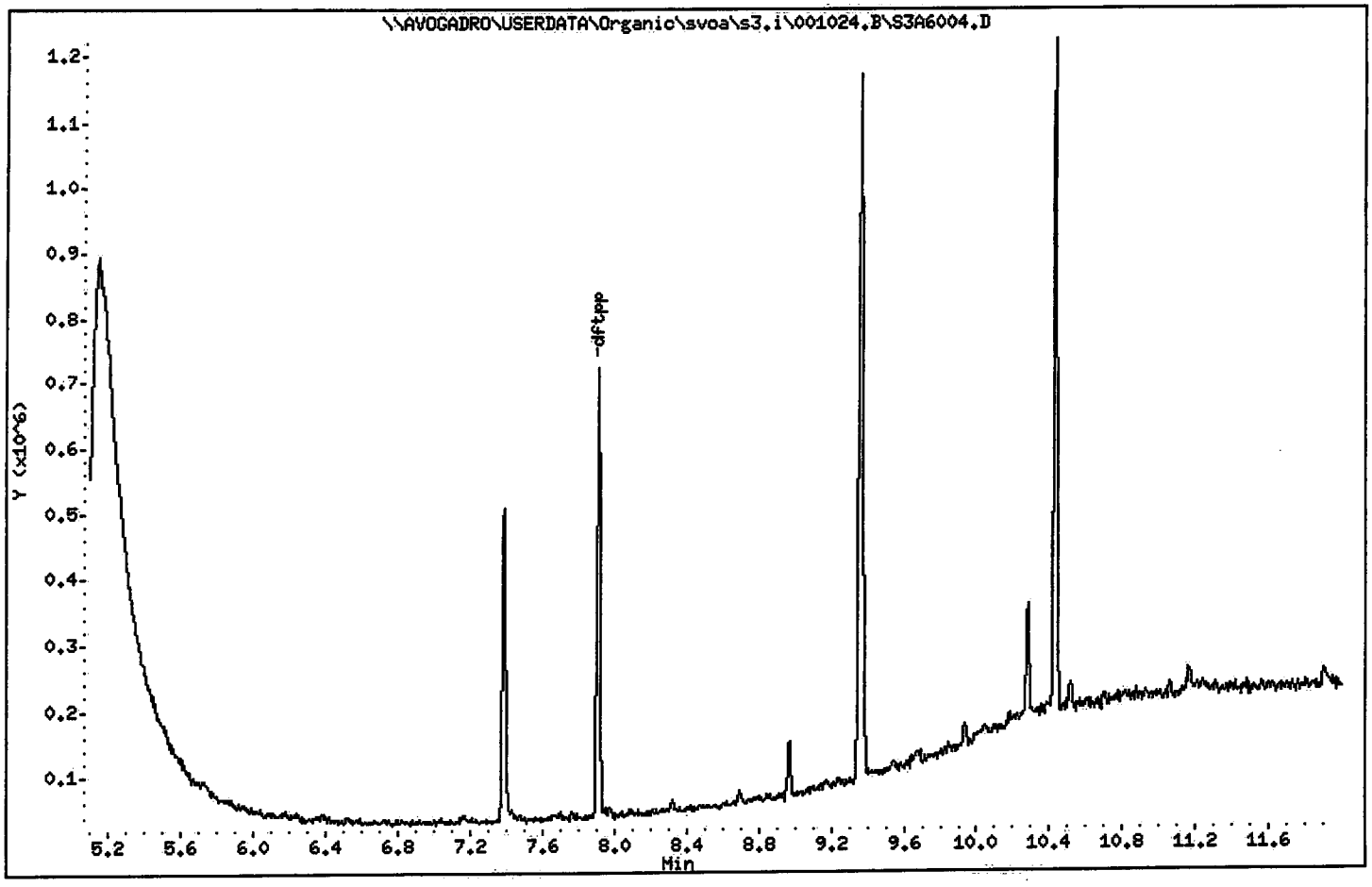
Instrument: S3.i

Sample Info: ST1024A,DFTPP3F

Operator: QY

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6038.D

Date : 25-OCT-2000 13:43

Client ID: DFTPP3J

Instrument: S3.i

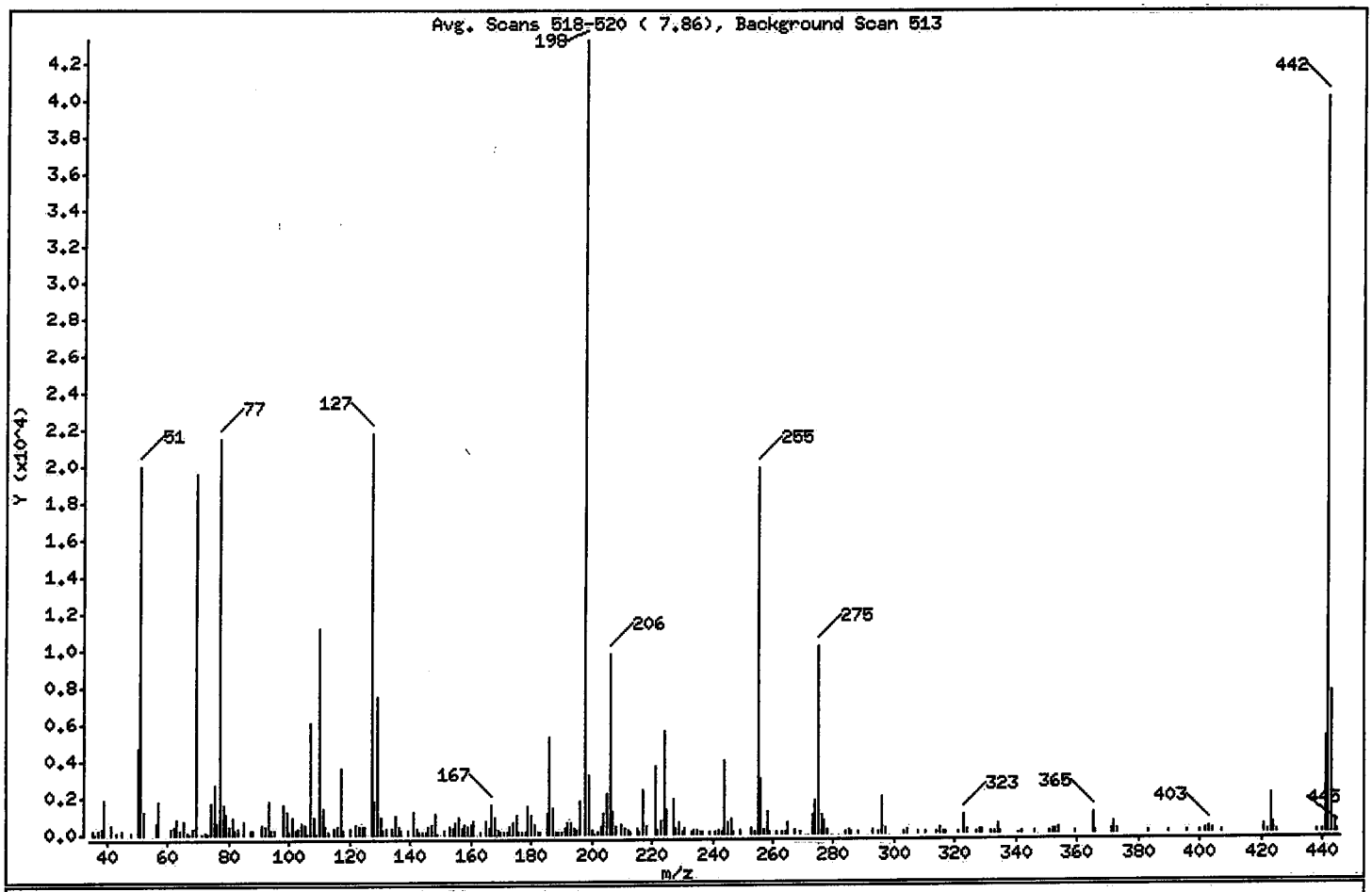
Sample Info: ST1025B,DFTPP3J

Operator: QY

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	46.07
68	Less than 2.00% of mass 69	0.74 (1.63)
69	Mass 69 relative abundance	45.12
70	Less than 2.00% of mass 69	0.00 (0.00)
127	25.00 - 75.00% of mass 198	50.36
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.29
275	10.00 - 30.00% of mass 198	23.43
365	Greater than 0.75% of mass 198	2.51
441	Present, but less than mass 443	11.88
442	40.00 - 110.00% of mass 198	92.83
443	15.00 - 24.00% of mass 442	17.73 (19.10)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6038.D

Date : 25-OCT-2000 13:43

Client ID: DFTPP3J

Instrument: S3.i

Sample Info: ST1025B,DFTPP3J

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A6038.D
Spectrum: Avg. Scans 518-520 (7.86), Background Scan 513
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	215	120.00	262	194.00	348	278.00	231
36.00	19	122.00	476	195.00	187	284.00	77
37.00	222	123.00	404	196.00	1777	285.00	153
38.00	333	124.00	402	198.00	43320	286.00	55
39.00	1872	125.00	374	199.00	3158	288.00	55
41.00	497	127.00	21808	200.00	160	293.00	231
43.00	147	128.00	1776	201.00	38	295.00	54
45.00	249	129.00	7506	202.00	85	296.00	1958
48.00	51	130.00	885	203.00	431	297.00	260
50.00	4716	131.00	174	204.00	1140	303.00	101
51.00	19952	132.00	275	205.00	2190	304.00	175
52.00	1175	134.00	328	206.00	9814	308.00	63
56.00	583	135.00	1047	207.00	1182	310.00	90
57.00	1757	136.00	393	208.00	363	314.00	111
61.00	308	137.00	215	210.00	483	315.00	298
62.00	396	139.00	156	211.00	285	316.00	83
63.00	809	141.00	1224	212.00	189	317.00	63
64.00	151	142.00	312	213.00	52	321.00	50
65.00	649	143.00	111	215.00	273	323.00	974
66.00	58	144.00	63	216.00	71	324.00	163
67.00	26	145.00	72	217.00	2402	327.00	106
68.00	319	146.00	372	218.00	392	328.00	171
69.00	19544	147.00	543	221.00	3739	329.00	166
71.00	1	148.00	1105	222.00	222	332.00	59
72.00	71	149.00	27	223.00	715	333.00	134
73.00	36	151.00	212	224.00	5561	334.00	544
74.00	1733	153.00	429	225.00	1294	335.00	66
75.00	2687	154.00	329	227.00	1864	341.00	43
76.00	630	155.00	564	228.00	284	342.00	64
77.00	21464	156.00	902	229.00	586	346.00	64
78.00	1574	157.00	295	230.00	66	351.00	60
79.00	1076	158.00	487	231.00	303	352.00	205
80.00	395	159.00	399	233.00	140	353.00	187
81.00	875	160.00	476	234.00	206	354.00	284
82.00	177	161.00	708	235.00	235	359.00	97

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6038.D

Date : 25-OCT-2000 13:43

Client ID: DFTPP3J

Instrument: S3.i

Sample Info: ST1025B,DFTPP3J

Operator: QY

Column phase:

Column diameter: 2.00

Data File: S3A6038.D
Spectrum: Avg. Scans 518-520 (7.86), Background Scan 513
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	300	163.00	52	236.00	61	365.00	1086
85.00	657	165.00	692	237.00	62	366.00	116
87.00	221	166.00	262	239.00	143	371.00	170
88.00	239	167.00	1576	241.00	76	372.00	573
91.00	450	168.00	906	242.00	181	373.00	216
92.00	350	169.00	249	243.00	104	383.00	95
93.00	1831	170.00	56	244.00	3960	390.00	54
94.00	244	171.00	126	245.00	585	396.00	52
95.00	183	172.00	140	246.00	789	400.00	65
98.00	1615	173.00	394	247.00	110	402.00	188
99.00	1181	174.00	599	249.00	229	403.00	261
100.00	59	175.00	1004	253.00	261	404.00	152
101.00	916	176.00	145	254.00	83	407.00	67
102.00	179	177.00	70	255.00	19864	421.00	391
103.00	294	178.00	90	256.00	2989	422.00	148
104.00	634	179.00	1493	257.00	193	423.00	2125
105.00	533	180.00	1010	258.00	1221	424.00	539
106.00	17	181.00	532	259.00	53	425.00	54
107.00	6103	182.00	71	261.00	64	438.00	66
108.00	907	183.00	71	263.00	99	440.00	62
109.00	25	185.00	1060	264.00	93	441.00	5146
110.00	11190	186.00	5321	265.00	629	442.00	40216
111.00	1428	187.00	1426	267.00	208	443.00	7683
112.00	361	188.00	90	269.00	51	444.00	582
113.00	124	189.00	142	273.00	950	445.00	85
115.00	332	190.00	61	274.00	1781		
116.00	386	191.00	327	275.00	10150		
117.00	3641	192.00	618	276.00	961		
118.00	168	193.00	588	277.00	710		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001025_0.B\S3A6038.D

Date : 25-OCT-2000 13:43

Client ID: DFTPP3J

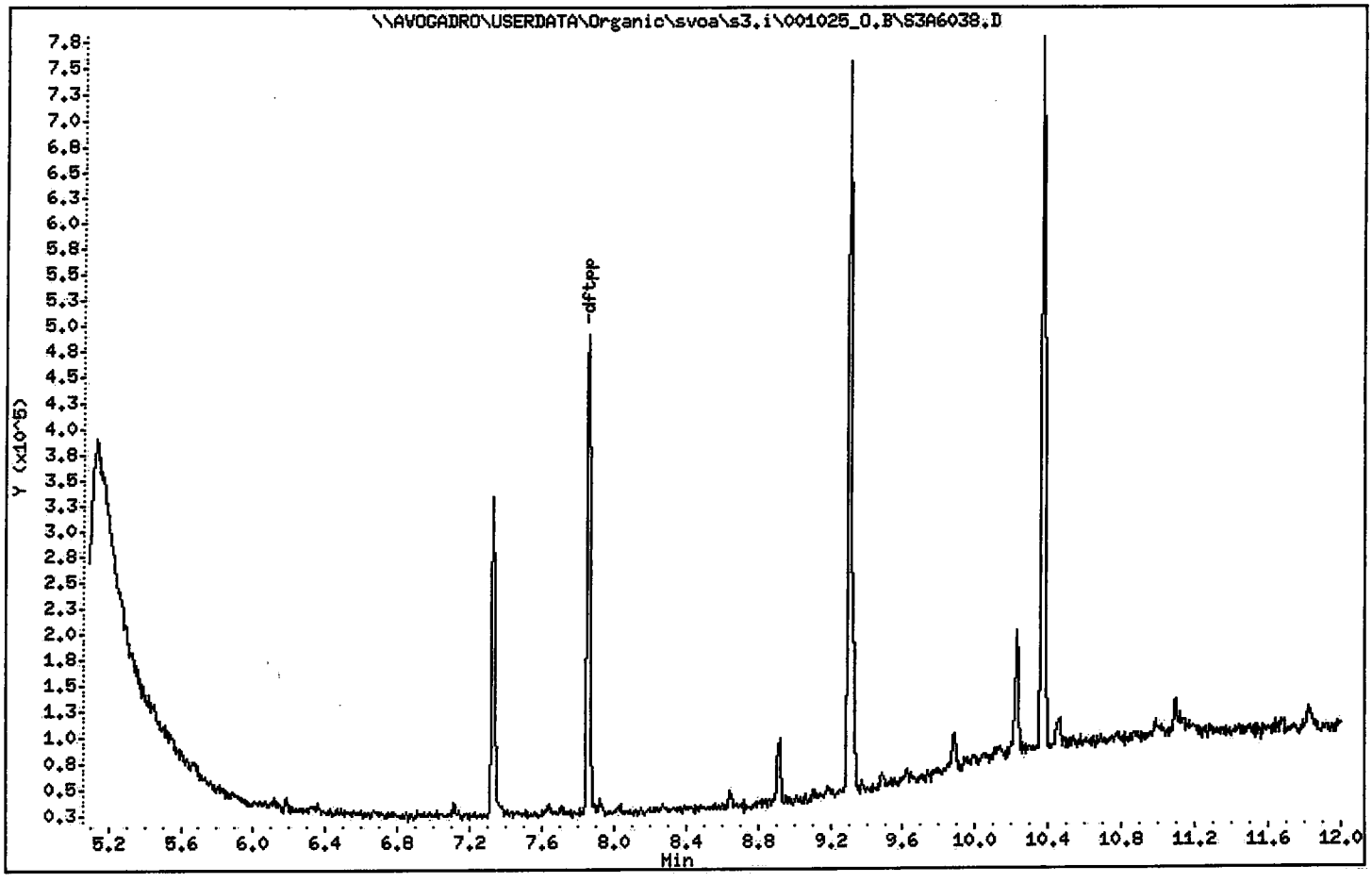
Instrument: S3.i

Sample Info: ST1025B,DFTPP3J

Operator: QY

Column phase:

Column diameter: 2.00



1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3V

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1013-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5918

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3V

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1013-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5918

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3V

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1013-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5918

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/13/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/17/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

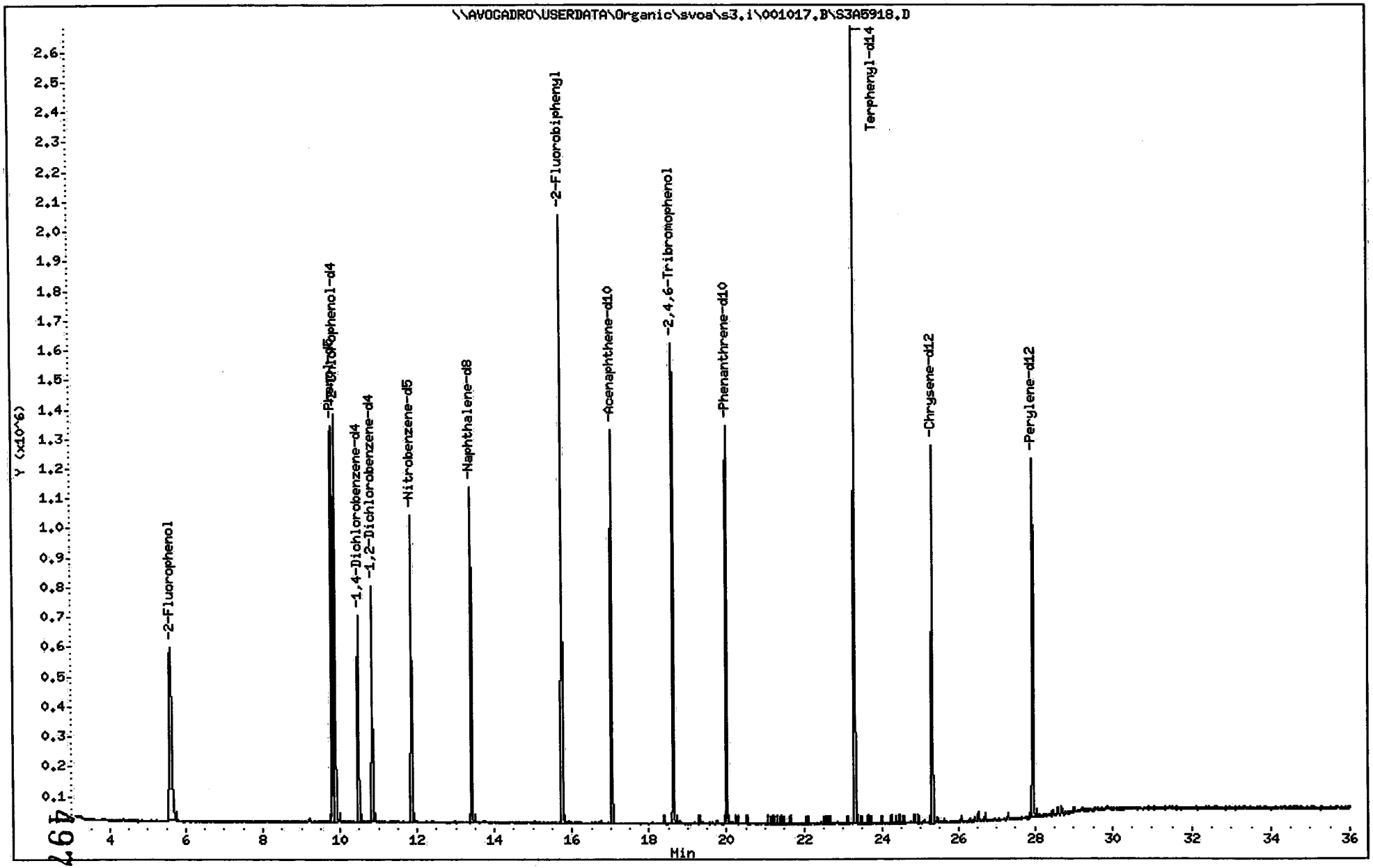
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5918.D
Date : 17-OCT-2000 11:49
Client ID: SBLK3V
Sample Info: S1013-BW1,SBLK3V,S1013-BW1,CS
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: CS
Column diameter: 0.25



Data File: S3A5918.D
Report Date: 26-Oct-2000 10:18

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5918.D
Lab Smp Id: S1013-BW1 Client Smp ID: SBLK3V
Inj Date : 17-OCT-2000 11:49
Operator : CS Inst ID: s3.i
Smp Info : S1013-BW1,SBLK3V,S1013-BW1,CS
Misc Info : 3,,BLANK,1,,,,,,,13-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A~~5916.D~~
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	5.609	5.615	(0.535)	695556	101.564	51
$ 3 Phenol-d5	99	9.807	9.807	(0.936)	871283	107.097	54
$ 6 2-Chlorophenol-d4	132	9.882	9.882	(0.943)	755998	104.340	52
* 8 1,4-Dichlorobenzene-d4	152	10.480	10.480	(1.000)	211989	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	10.843	10.844	(1.035)	229427	46.5779	23
$ 16 Nitrobenzene-d5	82	11.858	11.864	(0.884)	562366	71.7548	36
* 23 Naphthalene-d8	136	13.407	13.413	(1.000)	796411	40.0000	
$ 33 2-Fluorobiphenyl	172	15.747	15.747	(0.924)	955878	66.5219	33
* 41 Acenaphthene-d10	164	17.034	17.039	(1.000)	464575	40.0000	
$ 53 2,4,6-Tribromophenol	330	18.631	18.636	(0.931)	226341	131.213	66
* 58 Phenanthrene-d10	188	20.003	20.009	(1.000)	738038	40.0000	
$ 65 Terphenyl-d14	244	23.315	23.310	(0.921)	1412564	94.7355	47
* 70 Chrysene-d12	240	25.307	25.318	(1.000)	668956	40.0000	
* 76 Perylene-d12	264	27.951	27.956	(1.000)	642870	40.0000	

10/26/00

K

Data File: S3A5918.D
Report Date: 26-Oct-2000 10:18

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\S3A5918.D
Lab Smp Id: S1013-BW1 Client Smp ID: SBLK3V
Inj Date : 17-OCT-2000 11:49
Operator : CS Inst ID: s3.i
Smp Info : S1013-BW1,SBLK3V,S1013-BW1,CS
Misc Info : 3,,BLANK,1,,,,,,,13-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001017.B\s3_olm4_1.m
Meth Date : 17-Oct-2000 10:56 mtl Quant Type: ISTD
Cal Date : 17-OCT-2000 10:21 Cal File: S3A5916.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3D

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1014-BW2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5986

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3D

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1014-BW2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5986

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3D

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: S1014-BW2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A5986

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/23/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
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21.				
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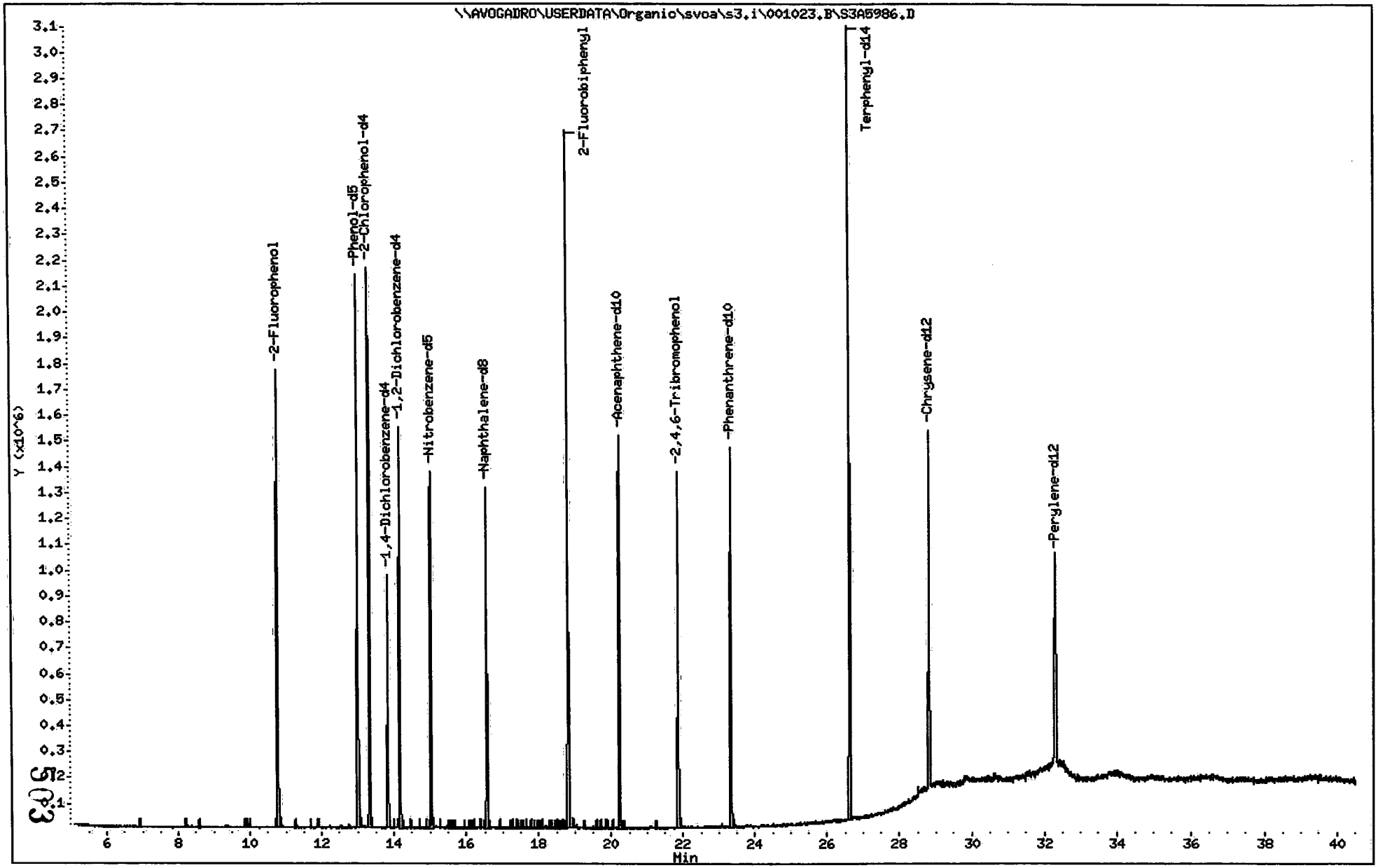
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5986.D
Date : 23-OCT-2000 12:53
Client ID: SBLK3D
Sample Info: S1014-BW2,SBLK3D,S1014-BW2,RC,,
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



5 of 3

Data File: S3A5986.D
Report Date: 26-Oct-2000 12:05

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5986.D
Lab Smp Id: S1014-BW2 Client Smp ID: SBLK3D
Inj Date : 23-OCT-2000 12:53
Operator : RC Inst ID: s3.i
Smp Info : S1014-BW2,SBLK3D,S1014-BW2,RC,,
Misc Info : 3,,BLANK,1,,,,,,,14-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:03 mtl Quant Type: ISTD
Cal Date : 23-OCT-2000 10:59 Cal File: S3A5983.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.777	10.782	(0.779)	969727	116.507	58
$ 3 Phenol-d5	99	13.010	13.010	(0.940)	1309851	122.363	61
$ 6 2-Chlorophenol-d4	132	13.331	13.331	(0.963)	1058177	120.939	60
* 8 1,4-Dichlorobenzene-d4	152	13.838	13.838	(1.000)	259341	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.170	14.169	(1.024)	417438	69.1001	35
$ 16 Nitrobenzene-d5	82	15.030	15.035	(0.907)	716634	78.6804	39
* 23 Naphthalene-d8	136	16.563	16.568	(1.000)	984725	40.0000	
$ 33 2-Fluorobiphenyl	172	18.823	18.822	(0.930)	1439096	77.2021	39
* 41 Acenaphthene-d10	164	20.238	20.243	(1.000)	553913	40.0000	
$ 53 2,4,6-Tribromophenol	330	21.873	21.873	(0.937)	232596	124.048	62
* 58 Phenanthrene-d10	188	23.331	23.336	(1.000)	891447	40.0000	
$ 65 Terphenyl-d14	244	26.627	26.632	(0.924)	1590427	85.7557	43
* 70 Chrysene-d12	240	28.812	28.823	(1.000)	729465	40.0000	
* 76 Perylene-d12	264	32.311	32.327	(1.000)	672041	40.0000	

P 10/26/00

F

Data File: S3A5986.D
Report Date: 26-Oct-2000 12:05

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\S3A5986.D
Lab Smp Id: S1014-BW2 Client Smp ID: SBLK3D
Inj Date : 23-OCT-2000 12:53
Operator : RC Inst ID: s3.i
Smp Info : S1014-BW2,SBLK3D,S1014-BW2,RC,,
Misc Info : 3,,BLANK,1,,,,,,,14-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001023.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:03 mtl Quant Type: ISTD
Cal Date : 23-OCT-2000 10:59 Cal File: S3A5983.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFMS

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643018

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6016

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	57	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	57	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	59	
91-57-6	2-Methylnaphthalene	22	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	40	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFMS

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643018

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6016

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

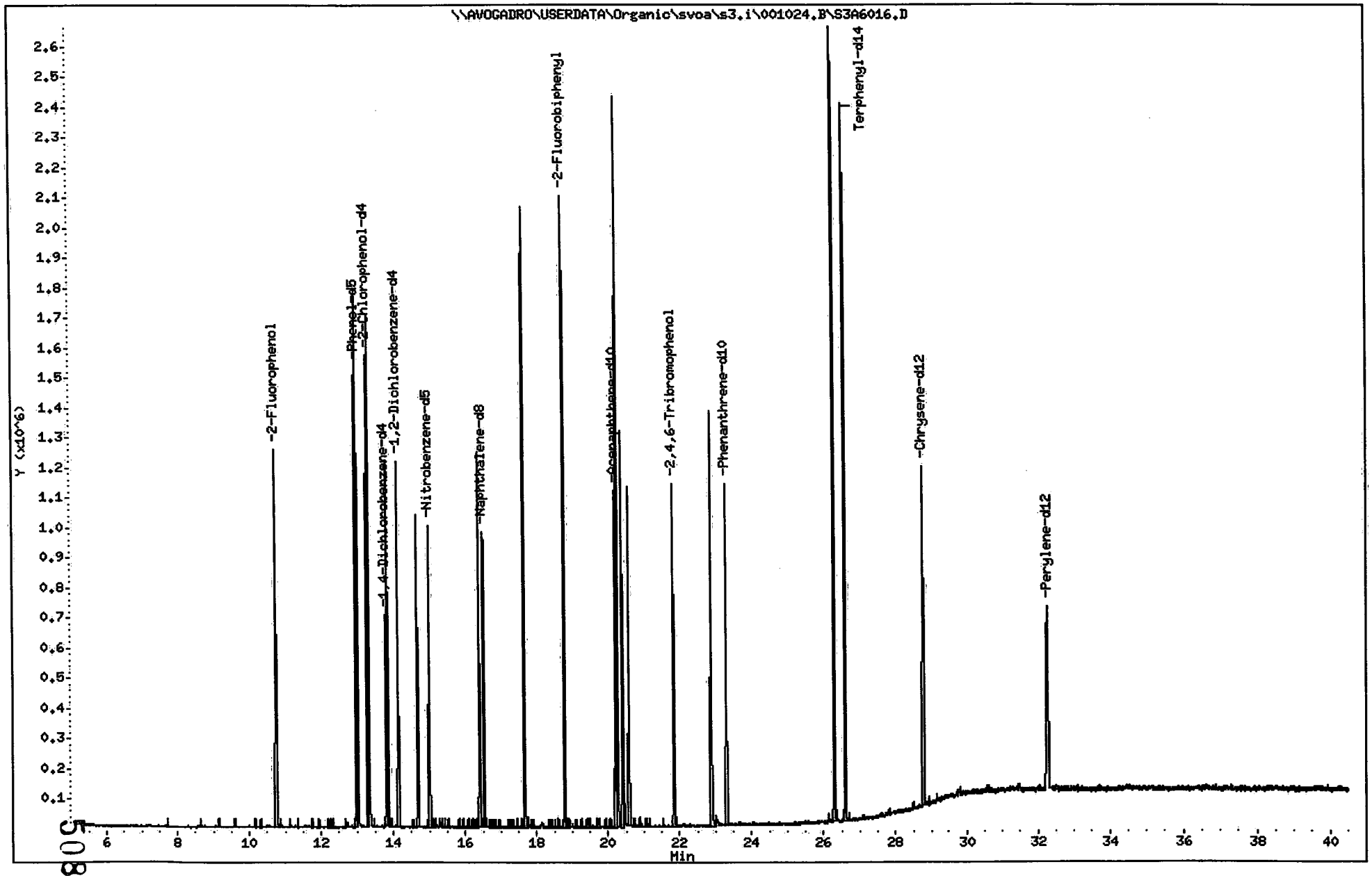
GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	61	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	66	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	44	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	7	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6016.D
Date : 24-OCT-2000 18:39
Client ID: 005SR-IFMS
Sample Info: 71643018,005SR-IFMS,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6016.D
Report Date: 26-Oct-2000 10:24

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6016.D
Lab Smp Id: 71643018 Client Smp ID: 005SR-IFMS
Inj Date : 24-OCT-2000 18:39
Operator : RC Inst ID: s3.i
Smp Info : 71643018,005SR-IFMS,S1014-BW2,RC,,71643
Misc Info : 3,,MS,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 10 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.755	10.751	(0.779)	708023	112.307	56
$ 3 Phenol-d5	99	12.988	12.990	(0.940)	969950	116.764	58
4 Phenol	94	13.020	13.016	(0.943)	998182	114.458	57
$ 6 2-Chlorophenol-d4	132	13.304	13.305	(0.963)	781822	116.634	58
7 2-Chlorophenol	128	13.341	13.337	(0.966)	785594	113.858	57
* 8 1,4-Dichlorobenzene-d4	152	13.811	13.812	(1.000)	196579	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.142	14.143	(1.024)	327285	70.3825	35
13 N-Nitroso-di-n-propylamine	70	14.682	14.683	(1.063)	334801	74.1492	37(Q)
$ 16 Nitrobenzene-d5	82	15.002	15.004	(0.907)	537048	76.3675	38
* 23 Naphthalene-d8	136	16.536	16.537	(1.000)	744846	40.0000	
28 4-Chloro-3-Methylphenol	107	17.673	17.680	(1.069)	668862	117.401	59
29 2-Methylnaphthalene	142	17.673	18.038	(1.069)	585956	44.8683	22(Q)
$ 33 2-Fluorobiphenyl	172	18.795	18.796	(0.930)	1098334	77.9091	39
* 41 Acenaphthene-d10	164	20.211	20.212	(1.000)	420171	40.0000	

Data File: S3A6016.D
Report Date: 26-Oct-2000 10:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
42 Acenaphthene	153	20.280	20.282	(1.003)	975942	79.5710	40
44 4-Nitrophenol	109	20.414	20.410	(1.010)	194806	122.423	61(R)
45 2,4-Dinitrotoluene	165	20.590	20.591	(1.019)	348855	82.1105	41
$ 53 2,4,6-Tribromophenol	330	21.846	21.847	(0.937)	183313	126.984	63
57 Pentachlorophenol	266	22.893	22.894	(0.982)	248884	132.610	66
* 58 Phenanthrene-d10	188	23.304	23.305	(1.000)	680818	40.0000	
64 Pyrene	202	26.301	26.302	(0.914)	1859366	88.5881	44
$ 65 Terphenyl-d14	244	26.600	26.601	(0.924)	1238290	86.3276	43
68 bis(2-Ethylhexyl)phthalate	149	28.764	28.765	(0.999)	203131	13.9118	7(a)
* 70 Chrysene-d12	240	28.785	28.792	(1.000)	574950	40.0000	
* 76 Perylene-d12	264	32.268	32.275	(1.000)	519195	40.0000	

10/26/00

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFMSD

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6017

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	56	
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	57	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	35	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-Methylphenol	58	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	40	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

005SR-IFMSD

Lab Name: MITKEM CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: 71643

Matrix: (soil/water) WATER Lab Sample ID: 71643019

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3A6017

Level: (low/med) LOW Date Received: 10/12/00

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 10/14/00

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/24/00

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

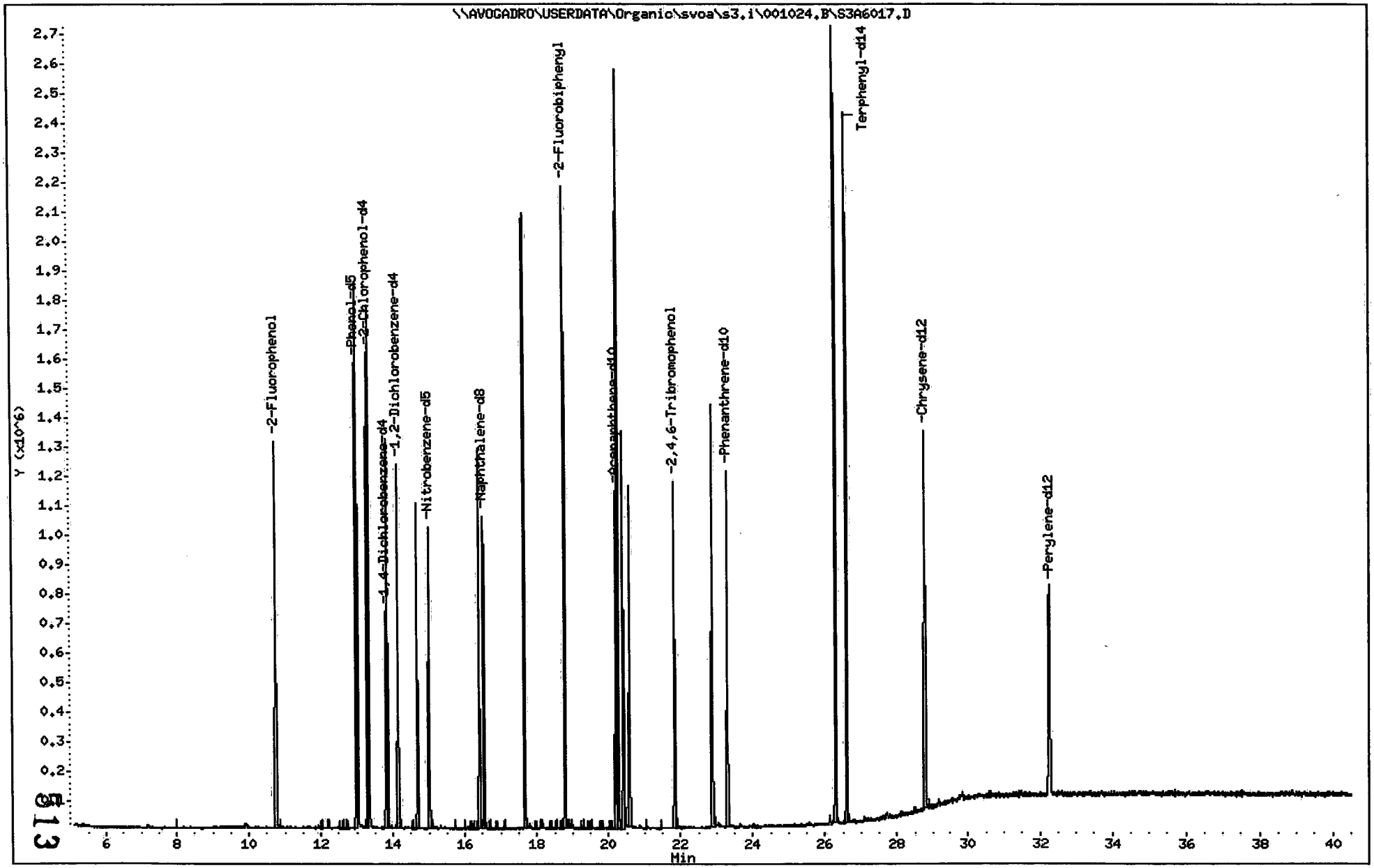
GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	62	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	62	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	43	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	8	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6017.D
Date : 24-OCT-2000 19:28
Client ID: 005SR-IFMSD
Sample Info: 71643019,005SR-IFMSD,S1014-BW2,RC,,71643
Volume Injected (uL): 2.0
Column phase: DB-5MS

Instrument: s3.i
Operator: RC
Column diameter: 0.25



Data File: S3A6017.D
Report Date: 26-Oct-2000 10:56

Mitkem Corporation

CLP OLM04.1 QUANTITATION REPORT

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\S3A6017.D
Lab Smp Id: 71643019 Client Smp ID: 005SR-IFMSD
Inj Date : 24-OCT-2000 19:28
Operator : RC Inst ID: s3.i
Smp Info : 71643019,005SR-IFMSD,S1014-BW2,RC,,71643
Misc Info : 3,,MSD,1,,,,,,,14-OCT-00,12-OCT-00
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s3.i\001024.B\s3_olm4_1.m
Meth Date : 24-Oct-2000 09:59 mtl Quant Type: ISTD
Cal Date : 24-OCT-2000 09:13 Cal File: S3A6005.D
Als bottle: 11 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	2.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 1 2-Fluorophenol	112	10.752	10.751	(0.778)	732891	110.075	55
$ 3 Phenol-d5	99	12.990	12.990	(0.940)	1009047	115.017	58
4 Phenol	94	13.022	13.016	(0.943)	1039031	112.812	56
$ 6 2-Chlorophenol-d4	132	13.305	13.305	(0.963)	814848	115.102	58
7 2-Chlorophenol	128	13.337	13.337	(0.966)	829044	113.771	57
* 8 1,4-Dichlorobenzene-d4	152	13.813	13.812	(1.000)	207609	40.0000	
$ 9 1,2-Dichlorobenzene-d4	152	14.144	14.143	(1.024)	335906	68.3987	34
13 N-Nitroso-di-n-propylamine	70	14.678	14.683	(1.063)	338541	70.9940	35(Q)
$ 16 Nitrobenzene-d5	82	15.004	15.004	(0.907)	546270	73.7482	37
* 23 Naphthalene-d8	136	16.537	16.537	(1.000)	784545	40.0000	
28 4-Chloro-3-Methylphenol	107	17.675	17.680	(1.069)	700875	116.795	58
$ 33 2-Fluorobiphenyl	172	18.791	18.796	(0.930)	1136696	75.6514	38
* 41 Acenaphthene-d10	164	20.212	20.212	(1.000)	447824	40.0000	
42 Acenaphthene	153	20.282	20.282	(1.003)	1053077	80.5581	40

10/26/00

Data File: S3A6017.D
Report Date: 26-Oct-2000 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
44 4-Nitrophenol	109	20.410	20.410	(1.010)	209775	123.689	62(R)
45 2,4-Dinitrotoluene	165	20.586	20.591	(1.019)	369965	81.7020	41
$ 53 2,4,6-Tribromophenol	330	21.847	21.847	(0.938)	190826	119.733	60
57 Pentachlorophenol	266	22.889	22.894	(0.982)	257310	124.182	62
* 58 Phenanthrene-d10	188	23.300	23.305	(1.000)	751642	40.0000	
64 Pyrene	202	26.302	26.302	(0.914)	1959621	85.4278	43
$ 65 Terphenyl-d14	244	26.596	26.601	(0.924)	1308902	83.4932	42
68 bis(2-Ethylhexyl)phthalate	149	28.760	28.765	(0.999)	243325	15.2479	8(a)
* 70 Chrysene-d12	240	28.787	28.792	(1.000)	628367	40.0000	
* 76 Perylene-d12	264	32.264	32.275	(1.000)	576289	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

K

MITKEM CORPORATION: ORGANIC PREP - CLP Semvolatiles

Date	Analysis	Method & SOP #	Sample Matrix	Project(s)
10/13/00	OLM BNA	AQ: 3510C(SepF) 3520C(Liq/Liq) Other: _____ Soil: 3540C(Soxhlet) 3550B(Sonic)	Aqueous Soil Other:	71625, 71643

Blank ID	LCS ID	Analyst:	Spiker:	Witness:	Solvent Lot #	Acid Lot #	Time Started / Time Ended	GPC Batch #
S1013 -BW1 -BW2	—	BMF	BMF	JP	T16320	319020	4PM / 9AM	—

Lab ID	Client ID	Wt/Vol Extracted	Surrogate Added	Matrix Spike Added	pH	KD prior to GPC Date/Analyst	Vol. pre GPC	GPC Date/Analyst	KD after GPC Date/Analyst		Final Vol.	Date Ext. Trans.
S1013-BW1		1000 mL	OSW0001004 A 500 ml	—	2				10/14	SR	1 mL	10/14
-BW2				—								
S71625-01												
-02												
-03												
-04												
-05												
-06												
-07												
-08												
-09												
-10												
-11												
-11MS				OSW0008 18A 500 ml								
-11MSD												
S71643-01				—								
-02												
-03												
-04												
-05												

Comments

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QAT00173
7P-16

Reviewed By: _____

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MITKEM CORPORATION: ORGANIC PREP - CLP Semvolatiles

Date	Analysis	Method & SOP #	Sample Matrix	Project(s)
10/13 100	OLM BNA	AQ: 3510C(SepF) 3520C(Liq/Liq) Other: ____ Soil: 3540C(Soxhlet) 3550B(Sonic)	Aqueous Soil Other:	71643

Blank ID	LCS ID	Analyst:	Spiker:	Witness:	Solvent Lot #	Acid Lot #	Time Started: / Time Ended:	GPC Batch #
S1013 -BW1 -BW2	—	BMF	BMF	SP	T16320	319020	4PM / 9AM	—

Lab ID	Client ID	Wt/Vol Extracted	Surrogate Added	Matrix Spike Added	pH	KD prior to GPC Date/Analyst		Vol. pre GPC	GPC Date/Analyst		KD after GPC Date/Analyst		Final Vol.	Date Ext. Trans.
S71643-06		1000mL	OSW001004A 500ul	—	2						10/14	SR	1mL	10/14
-07		↓	↓	↓	↓						"	"	"	"

Comments

517

QAT00173
7P-16

Reviewed By: _____

MITKEM CORPORATION: ORGANIC PREP - CLP Semvolatiles

Date	Analysis	Method & SOP #	AQ: 3510C(SepF) 3520C(Liq/Liq) Other: ____ Soil: 3540C(Soxhlet) 3550B(Sonic)			Sample Aqueous Soil Matrix Other:	Project(s)
10/14/00	OLM SVOA						71643
Blank ID -BW2 S1014 -BW3	LCS ID ____	Analyst: BMF / SK	Spiker: BMF	Witness: SK	Solvent Lot # T16320	Acid Lot # 319020	Time Started: 4 PM Time Ended: 9 AM / GPC Batch # ____

Lab ID	Client ID	Wt/Vol Extracted	Surrogate Added	Matrix Spike Added	pH	KD prior to GPC Date/Analyst	Vol. pre GPC	GPC Date/Analyst	KD after GPC Date/Analyst		Final Vol.	Date Ext. Trans.
S1014-BW2		1000mL	OSW00:004A 500ul	—	2	—			10/19/00	SK	1mL	10/19/00
-BW3												
S71643-08												
-09												
-10												
-11												
-11 MS				OSW000818A 500ul								
-11 MSD												
-12				—								
-13												
-14												
-15												
-16												

PB 10/14/00

PB 10/16/00

Comments

QAT00173
7P-16

Reviewed By: PB

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MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 09/08/2000 Tune Time: 10:11 TF PCP:

Benzidine: N/A

%BKD DDT:

Initial Calibration Date: 09/08/2000 (OLM) EMV: 1800

Analyst: ZY

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A5214	ST0908A	DFTPP3L		—			
15					do not use		
16	SS0908A	SSTD0503L		—			
17					do not use		
18	SS0908B	SSTD1603L		—			
19					do not use		
20	SS0908D	SSTDD803L		—			
21	E	0203L		—	OLM ICAL OK		
22	C	1203L		—			
23	ICV						

ZY 9/9/00

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	✓
Ferrule	—

QAT00192 Log ID: 7SV-11 Reviewed By:_____

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519

MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/15/00 Tune Time: TF PCP:

Benzidine:

%BKD DDT:

Initial Calibration Date: 10/04/00 8270 09/08/00 OLM EMV: 1800

10/11/00 OLC

Analyst: CS

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	✓
Ferrule	—

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A5877	ST1015A	DFTPP3S	DFTPP	-	ok 14:08		
78	SS1015A	SSTD0203S	BNA	-	ok ϕ out (OLC)	SW001011C	
79	SS1015B	SSTD0503T	↓	-	ok 8270 All (8270)	SW001013A	
80	ST1015B	DFTPP3T	DFT-ASP	-	ok 15:56		
81	SS1015C	SSTD0503U	ASP-CLP	-	ϕ (OLM)	SW001010B	
82	↓	↓	↓	-		↓	
83	↓	↓	↓	-	ok ϕ out (OLM)	SW001004A	
84	S0925-BW2	SBLK3T	↓	1	ok	ok	ok
85	71496004	B03M0	↓	1	↓	↓	↓
86	S1010-BS1	SBLK3S	↓	1	↓	↓	↓
87	71593017	E0JA8	BNA	1	ok (OLC)	ok	TBP↑
88	71597003	E000T	↓	1	↓ 22:08 ↓	↓	↓
89	71643004	240WS-IF	ASP-CLP	1	ok	ok	ok
90	05	240WS-CF	↓	1	↓	↓	↓
91	01	250WS-IF	↓	1	↓	↓	↓
92	02	250WS-CF	↓	1	↓	↓	↓
93	06	240WS-EF	↓	1	↓ 01:45	↓	↓
94	71627005RE	MW-11DRE	BNA	1	Report both Rerun OTT	ok	DBC <20%
95	71632010	GP1502	↓	1	ok ↓	↓	ok
96	.12	GP14	↓	1	↓ ↓	↓	ok
97	71627007	MW-103S	↓	CS 10/16/00 ~~10~~ 2	↓ ↓	↓	ok
CT 20					cont. on next page CS 10/16/00		

QAT00192 Log ID: 7SV-11 Reviewed By:_____ Page: 0054

MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/17/00 Tune Time: 10:04 TF PCP:

Benzidine: N/A

%BKD DDT:

Initial Calibration Date: 09/08/00 OLM EMV: 1800

Analyst: CS

Daily Maintenance	
Gold Seal	
Liner	
Clipped Column	
Ferrule	

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A59~~14~~ 15	ST1017A	DFTPP3W	DFT_ASP	-	ok		
~~17~~ 16	SS1017A	SSTD0503X	ASP_CLP	-	ok ϕ out		
~~18~~ 17	GPC1016-SB1			1	OK	—	—
~~19~~ 18	S1013-BW1	SBLK3V		1	OK	OK	OK
~~20~~ 19	71643003	250WS-EF		1	OK	OK	OK
~~21~~ 20	07	420WS-EF		1	OK	OK	OK
~~22~~ 21	71625008	C04N2		1	OK	OK	OK
22 ~~23~~	07	N0		1	OK	OK	OK
23 ~~24~~	06	M7		1	OK	OK	OK
24 ~~25~~	01	L2		1	OK	OK	OK
25 ~~26~~	05	M2		1	OK	OK	OK
26 ~~27~~	03	L6		1	OK	OK	OK
27 ~~28~~	04	L9		1		OK	TPH↓ 28.8%
28 ~~29~~	09	N5		1	OK	OK	OK
29 ~~30~~	02	L4		1	@ 4X	OK	OK
30 ~~31~~	11	P5		1	~~one ↑~~	OK	TPH↓
31 ~~32~~	16	P5MS		1	one out ↑	OK	↓
32 ~~33~~	17	P5MSD		1	OTT ↓	OK	↓
33 ~~34~~	10	N7	↓	1	OK ↓	OK	OK

10:07 !
10:52 !

[initials] 10/18/00

[initials] 10/18/2000

521

QAT00192 Log ID: 7SV-11 Reviewed By:_____

0057

Page:_____

MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/20/2000 (2nd seq.)

Tune Time: 19:22

TF PCP:

Benzidine: N/A

%BKD DDT:

Initial Calibration Date: 10/20/2000 (OLM)

EMV: 1849 ay

Analyst: ay

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A5961	ST1019G	DFTPP3B	DFT_ASP	–	Use this		
61A	↓	↓	↓	–			
62	SS1019G	SSTD1603B	ASP_CLP	–	use		
62A	↓	↓		–			
63	SS1019H	SSTD1203B		–	OLM4.2_ICAL use		
63A	↓	↓		–	OK		
64	SS1019J	SSTD0803B		–	use		
64A	↓	↓		–			
65	SS1019K	SSTD0503B		–	use		
65A	↓	↓		–			
66	SS1019L	SSTD0203B		–	use		
66A	↓	↓		–			

10/21/00

ay

Daily Maintenance	
Gold Seal	
Liner	
Clipped Column	
Ferrule	

522

QAT00192 Log ID: 7SV-11 Reviewed By:_____

MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/23/00 Tune Time: 10:39 TF PCP: Benzidine: %BKD DDT:

Initial Calibration Date: 10/20/00 (OLM) 10/20 (8270) EMV: 1847 Analyst: RC

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	✓
Ferrule	—

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A5981	ST1023A	DFTPP3D	DFT_ASP				
82	↓	↓	↓		OK 10:39 CLP		
83	SS1023A	SSTD0503D	ASP-CLP		OK ↓		
84	ST1023B	DFTPP3E	DFTPP		OK 8270		
85	SS1023B	SSTD0503E	BNA		OK BN/PAH ↓		
86	S1014-BW2	SBLK3D	ASP-CLP		OK	OK	OK
87	71632003	GPBC2	BNA	20	OK	OK	↓
88	S1014-LS1	SBLK3ELCS	↓		all in	OK	↓
89	↓ -BS1	SBLK3E	↓		OK	OK	↓
90	71632003	GPBC2	↓	1X	OK w/ 20X	OK	NB↑
91	71635014	C04P3	ASP-CLP	5	another 2X DL	OK	OK
92	018	MS	↓	↓	ok	OK	OK
93	019	MSD	↓	↓	ok	OK	OK
94	015	C04P7	↓	↓	OK	OK	OK
95	014		↓	1	NOT NEEDED		
96	018		↓	1			
97	019		↓	1			
98	015		↓	1	OTT 22:41		
99	PCBAR1232		↓		10ug/mL		
6000	↓		↓				
01	71472001		↓				
02	004		↓				
03	007		↓				

PCB confirm

QAT00192 Log ID: 7SV-11 Reviewed By:_____ Page: 0061

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MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/24/00 Tune Time: 8:53 TF PCP:

Benzidine:

%BKD DDT:

Initial Calibration Date: 10/20/00 OLM EMV: 1847

10/20/00 8270 Analyst: RC

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A6004	ST1024A	DFTPP3F	DFT_CLP		OK 8:53		
05	SS1024A	SSTD0503F	CLP↔ASP		OK OLM Ø out		
06	71625014		↓	10x	OK	OK	OK
07	71643008		↓		OK	OK	OK
08	09		↓		OK	OK	OK
09	10		↓		OK		
10	ST1024B	DFTPP3G	DFTPP		OK (8270) 1:16		
11	SS1024B	SSTD0503G	BNA		OK (BN)		
12	71625017		CLP↔ASP				
13	10		↓				
14	71632003		BNA	40x	4:58		
15	71643011		ASP_CLP		OK	OK	OK
16	18	MS	↓		4NP↑ OK	↓	↓
17	19	MSD	↓		↓ OK 7:28	↓	↓
					@ 10/25/00		

Daily Maintenance	
Gold Seal	✓
Liner	—
Clipped Column	✓
Ferrule	—

QAT00192 Log ID: 7SV-11 Reviewed By:_____

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MITKEM CORPORATION: Semivolatile GC/MS Logbook Instrument S3

Date: 10/25/2000 (2nd seq.)

Tune Time: 13:43

TF PCP:

Benzidine: N/A

%BKD DDT:

Initial Calibration Date: 10/20/2000 (OLM)

EMV: 1847

Analyst:

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	✓
Ferrule	—

File ID	Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S3A6038	ST1025B	DFTPP3J	DFT_ASP	—	OK		
39	SS1025B	SSTD050J	ASP_CLP	—	OK 3 out < 40%		
40	S1020-BW1	SBLK3J		1		OK	4 ↓
41	71643016			1	OK	OK	OK
41A	S1021-BW2	SBLK3J		1	wrong sample!		
41B	S1020-BW2	SBLK3J		1		OK	1↓ ~~OK~~
42	71643015				OK	OK	OK
43	13				OK	OK	OK
44	14				OK	OK	OK
45	12				OK	OK	OK
46	71669001						
47	02						
48	03						
49	04						
50	06						
51	07				1:32		
52	08				OTT (rerun) 2:20		

(P) 10/26/00

525

QAT00192 Log ID: 7SV-11 Reviewed By:_____

MITKEM CORPORATION: Sample Receipt Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
71641	10-12-00	DPB	VOA F3	01-05 01-04	1-4 SK 10/12							
71642	10-12-00	CDM	R2 RIAL STL G1 M2	01,02,04 03,05-08 03,05-08 03,05-08 02,04 02,04	3,5-8 BD 10/12	3,5-8 BD 10/12	03,05-08 MJ 10/12/00	03,5-8 MJ 10/12/00	04 WC 10/17	04 BD 10/17		
					2,4 EP 10/12/00 2,4 WC 10/12 01 WC 10/12	2,4 EP 10/12 2,4 WC 10/12 01 WC 10/12	2,4 BD 10/13	2,4 BD 10/13	3,5-8 RJK 10/18/00	3,5-8 RJK 10/18/00		
71643	10/12/00	ROY - WESTON	L4 VOA	01-16 01-17	1-7 BMF 10/13/00							
					8-16 SK 10/14							
71644	10/12/00	TAMS	F1 M2	01-05 06	06 EP 10/12/00	06 EP 10/12	06 RJK 10/13/00					
					01-05 MJ 10/12/00	01-05 MJ 10/12/00						
71645	10/12/00	TAMS	VOA F3 M2	01-06 01-05 02-05	2-5 WC 10/12	2-5 WC 10/12	2-5 RJK 10/13/00	2-5 RJK 10/13/00	2-5 10/17 EP	2-5 10/17 EP		
					2-5 EP 10/12	2-5 EP 10/12	2-5 EP 10/13 2-5 WC 10/13	2-5 EP 10/13 2-5 WC 10/13	2-5 10/17 SK 1-5 BMF 10/17/00			

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QAT00187
7SR-05

Reviewed By: BMF

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
10-14	571627-02	SR	[illegible]	R7	
	-03				
	-04				
	-05				
	-06				
	-07				
10-14	S1013-BW1	SR			
	BW2				
	571625-01				
	02				
	03				
	04				
	05				
	06				
	07				
	08				
	09				
	10				
	11				
	11MS				
	11MSD				
10-14	571643-01	SR			
	02				
	03				
	04				
	05				
	06				
	07				
10/14/00	S1010-BS1	SR			
	571496-04				
10/15	F1014-BS1	SR	RD	RS	
	-LS1				
	F71660-01				
10/15	S1014-BS1	SR	RS	R7	
	-LS1				

QAT00141

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Log ID: 7SV-12

Reviewed By: [illegible] 10/18/00

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
10/19/00	S71652-01MSD	SIC	(R)	R7	
	-02				
	03				
	04				
	05				
	06				
	S71666-01				
	02				
10/19/00	S1014-BW2	SIC	(R)	R7	
	S71643-08				
	09				
	10				
	11				
	11MS				
	11MSD				
	12				
	13				
	14				
	15				
	16				
10/19/00	F1018-BW1	(RP)	RB	R5	
	-LW1				
	F71674-01				
	F71676-01				
10-19-00	S1019-BS5	SP	(R)	R7	
	~~S7~~ -LS5				
	S71698-01				
10-20-00	F~~S~~ 8/10-20 1019-BS1	SP	RB	R5	
	SP 10-20 -LS1				
	F~~S~~ 71698-01				
10/20/00	S1018-BS1	SIC	RB	R7	Fv=1mL
	S71625-14				
	14MS				
	14MSD				
	15				

QAT00141

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Log ID: 7SV-12

Reviewed By: (P) 10/23/00

Last Page of Data Report