SFUND RECORDS CTR
2033363

Jolt Fee 4716

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 31520 SDG No. Y05K8 SDG Nos. To Follow _____ Date Recvd 4/8/2003

EPA Lab ID: PITKEM

Lab Location: RI

Region: IX Audit No.: 3/03-9

Re-Submitted CSF? Yes ___ No ✓

Box No(s): _____

COMMENTS:

Over for additional comments.

ITEMS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	✓		
2. Intact upon receipt?	✓		
FORM DC-2			
3. Numbering scheme accurate?	✓		
4. Are enclosed documents listed?	✓		
5. Are listed documents enclosed?	✓		
FORM DC-1			
6. Present?	✓		
7. Complete?	✓		
8. Accurate?	✓		
CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	✓		
10. Dated?	✓		
TRAFFIC REPORT(s) PACKING LIST(s)			
11. Signed?	✓		
12. Dated?	✓		
AIRBILLS/AIRBILL STICKER			
13. Present?	✓		
14. Signed?	✓		
15. Dated?	✓		
SAMPLE TAGS			
16. Does DC-1 list tags as being included?		✓	
17. Present?			✓
ALL DOCUMENTS			
18. Activities identified?	✓		
19. Legible?	✓		
20. Original?		✓	
20a. If "NO," does the copy indicate where original documents are located?	✓		

Received by: Beth Fraker, RSCC _____ Date 4/8/2003

Audited by: [signature] (Signature) SANTIAGO Lee / Data Reviewer (Printed Name/Title) Date 4/8/03

TO BE COMPLETED BY CEAT

Date Recvd by CEAT: __/__/__ Date Entered: __/__/__ Date Reviewed: __/__/__

Entered by: _____

Reviewed by: _____ (Signature) _____ (Printed Name/Title)

DC-2 ___

2033363

COVER SHEET

LABORATORY RESPONSE TO RESULTS OF CONTRACT COMPLIANCE SCREENING (CCS)

Response To: (Check One) ✓ Organic CCS

_____ Inorganic CCS

Response materials should be sent to the attention of the CCS Coordinator.

Labcode: MITKEM

Response Date: 4/23/03

Date Screening Results Received at Laboratory: 4/10/03

EPA Contract No. 68-W-99-076

Case No. 31520

SDG No. Y05K8

Sample Nos.*

Only list sample numbers that require reconciliation.

This form is used to identify materials sent in response to results of Contract Compliance Screening (CCS). A separate form must accompany the response for each SDG.

Please indicate (on the attached continuation form) which fractions and/or which criteria correspond with your resubmission. Response materials sent to CCS should also be copied to the Region with this blue Cover Sheet.

M-I-TKEM
Case 31520
SDG Y05K8

Laboratory Response to result of CCS

Criterion	Comments
VC.5.3	No further action

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

May 27, 2003

ICF Consulting/Laboratory Data Consultants
Environmental Services Assistance Team
Region IX
1337 S. 46th Street
Building201
Richmond, CA 94804
Attn: Mr. Santiago Lee

RE: Case 31519 SDG Y0SH9 and Case 31520 SDG Y0SK8

Dear Mr. Lee:

1. Sodium bisulfate was added to the samples prior to analysis. The date in the extraction logbook is incorrect. The date of extraction was March 25, 2003.

2. The preparation date, expiration date, lot number, concentration, source and spike volumes are presented in the attached table.

If you have any questions, please call me at 401-732-3400.

Sincerely,

Agnes R. Ng
CLP Project Manager

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

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date 3/25/03	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/$NaHSO_4$	Methanol Lot. # / $NaHSO_4$ ID	Comments	Analyst
am ~~3/26/03~~	B0429-01	8260	5.0	5mL	NaHSO4	VW030306A		TRA
5/27/03	B0447-01		6.2					
	-01MS		6.4					
	-01MSD		6.5					
	-02		4.7					
	B0447-03		4.4					
	B0443-01		5.0 ✓					
	-02		5.0 ✓					
	-03		5.7 ✓					
	-03MS		5.9 ✓					
	-03MSD		5.0 ✓					
	-04		5.5 ✓					
	B0443-05		5.7					
	B0460-01		6.6					
	-02		5.1					
	-03		5.0					
	-04		5.8					
	-07		5.0					
am ~~3/26/03~~ 5/27/03 3/25/03	B0460-08	8260	5.1	5mL	NaHSO4	VW030306A		TRA

Logbook ID: 90.0189-1/02 Reviewed By: AW 3/31/03 Logbook page: 000072

Standard	Prepared	Conc.	Source	Lot #	Exp. Date	Spiking Vol.
Gas Mix	3/10/2003	100 ug/ml	Restek	A023102	12/2008	
Ketone Mix	3/10/2003	100 ug/ml	Restek	A023117	8/2005	
Cal 2000 Mix	3/10/2003	100 ug/ml	Restek	A022897	8/2003	
LCS/MS	2/4/2003	20 ug/ml	Restek	A017891	7/2004	12.5 ul
nternal Standar	12/5/2002	100 ug/ml	Restek	A018019	3/2005	2.5 ul
Surrogates	2/4/2003	100 ug/ml	Restek	A023202	10/2006	2.5 ul

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Mitkem Corporation
CITY/STATE Warwick, RI

CASE NO. 31520 SDG NO. Y0SK8 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO. 68-W-99-076
SOW NO. OLM04.2

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. **Inventory Sheet** (Form DC-2) (Do not Number)				
2. **SDG Case Narrative**	1	3	✓	✓
3. **SDG Cover Sheet/Traffic Report**	4	5	✓	✓
4. **Volatiles Data**				
a. QC Summary				
System Monitoring Compound Summary (Form II	6	6	✓	✓
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	7	7	✓	✓
Method Blank Summary (Form IV VOA)	8	8	✓	✓
GC/MS Instrument Performance Check (Form V VOA)	9	10	✓	✓
Internal Standard Area and RT Summary (Form VIII VOA)	11	11	✓	✓
b. Sample Data	12	80		
TCL Results - (Form I VOA-1, VOA-2)			✓	✓
Tentatively Identified Compounds (Form I VOA-			✓	✓
Reconstructed total ion chromatograms (RIC) for each sample			✓	✓
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	✓
Quantitation reports			✓	✓
Mass Spectra of all reported TICs with three best library matches			✓	✓
c. Standards Data (All Instruments)	81	102		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	✓
RICs and Quan Reports for all Standards			✓	✓
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	✓
RICs and Quantitation Reports for all Standards			✓	✓
d. Raw QC Data			✓	✓
BFB	103	108	✓	✓
Blank Data	109	120	✓	✓
Martix Spike/Matrix Spike Duplicate Data	121	130	✓	✓

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31520 SDG NO. YOSK8 SDG NOS. TO FOLLOW _____

SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	N/A	N/A	NA	
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
GC/MS Instrument Performance Check (Form V SV)				
Internal Standard Area and RT Summary (Form VIII SV)				
b. Sample Data				
TCL Results - (Form I SV-1, SV-2)				
Tentatively Identified Compounds (Form I SV-				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds				
Quantitation reports				
Mass Spectra of TICs with three best library matches				
GPC chromatograms (if GPC is required)				
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI SV-1, SV-2)				
RICs and Quan Reports for all Standards				
Continuing Calibration Data (Form VII SV-1, SV-				
RICs and Quantitation Reports for all Standards				
d. Raw QC Data				
DFTPP				
Blank Data				
Matrix Spike/Matrix Spike Duplicate Data				
e. Raw GPC Data				
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	N/A	N/A		
MS/MSD Duplicate Summary (Form III PEST)				
Method Blank Summary (Form IV PEST)				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31520 SDG NO. YOSK8 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
b. Sample Data	N/A	N/A		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			NA	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data				
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data				
Matrix Spke/Matrix Spike Duplicate Data				

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31520 SDG NO. YOSK8 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	N/A	N/A	NA	
f. Raw Florisil Data	↓	↓	↓	
7. **Miscellaneous Data**				
Original preparation and analysis forms or of preparation and analysis logbook pages	131	134	✓	✓
Internal sample and sample extract transfer chain-of-custody records	135	135	✓	✓
Screening records	N/A	N/A	NA	
All instrument output, including strip charts from screening activities (describe or list)			↓	
_____	N/A	N/A		
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments 1)	136	136	✓	✓
Chain-of-Custody Records	137	138	✓	✓
Sample Tags			NA	
Sample Log-in Sheet (Lab & DC1)	139	141	✓	✓
Miscellaneous Shipping/Receiving Records (describe or list)				
_____	N/A	N/A	NA	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
_____	N/A	N/A		
10. **Other Records** (describe or list)				
Telephone Communication Log	N/A	N/A		
E-MAIL	142	160	✓	✓
_____	N/A	N/A	NA	

11. **Comments:** _____

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. 31520 SDG NO. Y0S18 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	(Signature)	Lou Boudreau/Document Control Officer (Printed Name/Title)	4/4/03 (Date)
Verified by: (CLP Lab)	(Signature)	Agnes Na/ CLP Project Manager (Printed Name/Title)	4/4/03 (Date)
Audited by: (EPA)	(Signature)	SANTIAGO LEE/Data Reviewer (Printed Name/Title)	4/01/03 (Date)

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

April 4, 2003

Computer Sciences Corporation
2000 Edmund Halley Drive
Reston, VA 20191-3436

RE: EPA Case # 31520
SDG# Y0SK8
Mitkem Lab Project # B0443

To Document Control Officer:

Enclosed is the data report for the samples associated with the above referenced project. The analyses were performed under USEPA Contract # 68-W-99-076.

Please call if you have any questions regarding the submittal.

Sincerely,

Agnes R. Ng
CLP Project Manager

cc Region IX

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

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to USEPA Case # 31520 SDG# Y0SK8. Analyses were performed for five soil samples that were received on March 19, 2003. The analyses were performed under USEPA Contract # 68-W-99-076. Please note that the cooler received was measured at 2°C.

Sample Y0SL0 was designated on the COC/TR as the sample for laboratory QC. Only three Encore samplers were received for this sample. There is insufficient sample volume for matrix spike and matrix spike duplicate analysis. Per the Region, if the sample requires re-analysis, do not analysis for matrix spike and matrix spike duplicate. If the sample does not require re-analysis, analyze the matrix spike and matrix spike duplicate.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis
Y0SK8	B0443-01B	V
Y0SK9	B0443-02B	V
Y0SL0	B0443-03B	V
Y0SL0MS	B0443-03BMS	V
Y0SL0MSD	B0443-03BMSD	V
Y0SL1	B0443-04B	V
Y0SL2	B0443-05B	V

V = Volatiles

The analyses were performed using USEPA CLP Multi-Media, Multi-Concentration (OLM04.2) protocols. The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

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

- M1 peak tailing or fronting.
- M2 peak co-elution.

- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

2. Volatile Analysis:

Trap used for instrument V5: 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.

Samples were received as Encore samples. The low-level soil analysis for volatile was performed by modified SW846 Method 5035.

Surrogate recoveries were within the QC limits with the exception of high recovery of 1,1-dichloroethane-d4 in the matrix spike duplicate.

Matrix spike and matrix spike duplicate were performed on sample Y0SL0. Spike recoveries were within the advisory QC limits with the exception of high recovery of trichloroethene in the matrix spike. Replicate RPDs were within the advisory QC limits with the exception of trichloroethene.

For samples Y0SL1 and Y0SL2, cis-1,2-dichloroethene was detected above the instrument calibration range. The samples were re-analyzed at dilution by medium level analysis with not target analytes detected. Per the Region, diluted analyses are not required for these samples. For these samples, cis-1,2-dichloroethene is flagged with an "E" flag on Form Is.

No other unusual observation was made for the analysis.

All of the submittals to the region are originals other than logbook pages. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. Tunes, calibration verifications and initial calibrations that are shared among several cases are photocopies indicating the location of the originals.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
04/04/03

Contract Laboratory Program

Sample Delivery Group (SDG) Traffic Report (TR) Cover Sheet

SDG Number Y0SK8

Laboratory Name Mitkem Corporation Laboratory Code MITKEM

Contract No. 68-W-99-076 Case No. 31520

Analysis Price $536.00 SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) Y0SK8	7) Y0SL2	13)	19)
2) Y0SK9	8)	14)	20)
3) Y0SL0	9)	15)	21)
4) Y0SL0MS	10)	16)	22)
5) Y0SL0MSD	11)	17)	23)
6) Y0SL1	12)	18)	24)

Y0SK8
First Sample in SDG

Y0SL2
Last Sample in SDG

3/19/03
First Sample Receipt Date

3/19/03
Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature [signature] Date 3/20/03

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	31520
DAS No:	
SDG No:	Y0SK8

L

Date Shipped:	3/18/2003
Carrier Name:	FedEx
Airbill:	835859426435
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [signature]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	3/18/03 1700	Federal Express	3/18/03 1700
2			
3			
4		[signature]	3-19-03 0900

For Lab Use Only

Lab Contract No:	68-W-99-076
Unit Price:	$536
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

	ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
-1	Y0SK8	Soil (>12")/ Anitra Rice	L/G	VOA (21)	(Ice Only) (3)	JF-1-S5	S: 3/18/2003	1550	MY0SK8	OK
-2	Y0SK9	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-1-S15	S: 3/18/2003	1612	MY0SK9	OK
-3	Y0SL0	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~1~~-S20 (2)	S: 3/18/2003	10:30	MY0SL0	only 3 Encores
-4	Y0SL1	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~1~~-S30 (2)	S: 3/18/2003	10:55	MY0SL1	OK
-5	Y0SL2	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~1~~-S35 (2)	S: 3/18/2003	11:00	MY0SL2	OK

-5 → SDG-Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0SL0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
VOA = CLP TCL Volatiles CJB				

TR Number: 9-233994445-031803-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK5W	104	94	107		0
02	Y0SK8	97	91	105		0
03	Y0SK9	99	93	112		0
04	Y0SL0	101	93	116		0
05	Y0SL0MS	103	102	118		0
06	Y0SL0MSD	101	103	140*		1
07	Y0SL1	105	101	112		0
08	Y0SL2	103	101	114		0
09	VHBLK5W	105	99	116		0
10						
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		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix Spike - EPA Sample No.: Y0SL0 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	46	0.0	36	78	59-172
Trichloroethene	46	9	93	183*	62-137
Benzene	46	0.0	52	113	66-142
Toluene	46	0.0	51	111	59-139
Chlorobenzene	46	0.0	48	104	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54	44	81	4	22	59-172
Trichloroethene	54	62	98	60*	24	62-137
Benzene	54	58	107	5	21	66-142
Toluene	54	57	106	5	21	59-139
Chlorobenzene	54	56	104	0	21	60-133

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Lab File ID: V5E5112 Lab Sample ID: V5B0325C

Date Analyzed: 03/25/03 Time Analyzed: 1952

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

Instrument ID: V5

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y0SK8	B0443-01B	V5E5115	2120
02	Y0SK9	B0443-02B	V5E5116	2149
03	Y0SL0	B0443-03B	V5E5117	2218
04	Y0SL0MS	B0443-03BMS	V5E5119	2317
05	Y0SL0MSD	B0443-03BMSD	V5E5120	2346
06	Y0SL1	B0443-04B	V5E5123	0113
07	Y0SL2	B0443-05B	V5E5124	0143
08	VHBLK5W	V5B0325D	V5E5125	0212
09				
10				
11				
12				
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COMMENTS: _____

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Lab File ID: V5E3390 BFB Injection Date: 01/28/03

Instrument ID: V5 BFB Injection Time: 1037

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.7
75	30.0 - 66.0% of mass 95	47.0
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 - 120.0% of mass 95	79.0
175	4.0 - 9.0% of mass 174	5.3 (6.8)1
176	93.0 - 101.0% of mass 174	77.0 (97.4)1
177	5.0 - 9.0% of mass 176	5.0 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0505X	V5S0128A	V5E3391	01/28/03	1054
02	VSTD0105X	V5S0128B	V5E3392	01/28/03	1129
03	VSTD2005X	V5S0128C	V5E3393	01/28/03	1204
04	VSTD1005X	V5S0128D	V5E3394	01/28/03	1233
05	VSTD0205X	V5S0128E	V5E3395	01/28/03	1302
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Lab File ID: V5E5110 BFB Injection Date: 03/25/03

Instrument ID: V5 BFB Injection Time: 1906

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.9
75	30.0 - 66.0% of mass 95	36.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.4
175	4.0 - 9.0% of mass 174	6.3 (7.0)1
176	93.0 - 101.0% of mass 174	87.0 (97.4)1
177	5.0 - 9.0% of mass 176	5.7 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0505W	V5S0325B	V5E5111	03/25/03	1918
02	VBLK5W	V5B0325C	V5E5112	03/25/03	1952
03	Y0SK8	B0443-01B	V5E5115	03/25/03	2120
04	Y0SK9	B0443-02B	V5E5116	03/25/03	2149
05	Y0SL0	B0443-03B	V5E5117	03/25/03	2218
06	Y0SL0MS	B0443-03BMS	V5E5119	03/25/03	2317
07	Y0SL0MSD	B0443-03BMSD	V5E5120	03/25/03	2346
08	Y0SL1	B0443-04B	V5E5123	03/26/03	0113
09	Y0SL2	B0443-05B	V5E5124	03/26/03	0143
10	VHBLK5W	V5B0325D	V5E5125	03/26/03	0212
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

EPA Sample No. (VSTD050##): VSTD0505W Date Analyzed: 03/25/03

Lab File ID (Standard): V5E5111 Time Analyzed: 1918

Instrument ID: V5 Heated Purge: (Y/N) Y

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

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	190184	5.36	1098055	6.35	971511	9.48
	UPPER LIMIT	380368	5.86	2196110	6.85	1943022	9.98
	LOWER LIMIT	95092	4.86	549028	5.85	485756	8.98
	EPA SAMPLE						
01	VBLK5W	214605	5.35	1300717	6.36	1113457	9.47
02	Y0SK8	209175	5.35	1163047	6.35	1034790	9.48
03	Y0SK9	209184	5.35	1161619	6.35	1024027	9.48
04	Y0SL0	174920	5.35	1019805	6.36	895148	9.47
05	Y0SL0MS	176858	5.36	1017290	6.36	911301	9.47
06	Y0SL0MSD	143855	5.35	926697	6.36	849176	9.47
07	Y0SL1	234854	5.36	1307729	6.35	1158157	9.47
08	Y0SL2	230568	5.35	1282456	6.36	1150204	9.48
09	VHBLK5W	230904	5.36	1322121	6.35	1186088	9.47
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SK8

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-01B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5115

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND	Q
75-71-8	Dichlorodifluoromethane	11 U
74-87-3	Chloromethane	11 U
75-01-4	Vinyl Chloride	11 U
74-83-9	Bromomethane	11 U
75-00-3	Chloroethane	11 U
75-69-4	Trichlorofluoromethane	11 U
75-35-4	1,1-Dichloroethene	11 U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11 U
67-64-1	Acetone	27
75-15-0	Carbon Disulfide	11 U
79-20-9	Methyl Acetate	4 J
75-09-2	Methylene Chloride	6 J
156-60-5	trans-1,2-Dichloroethene	11 U
1634-04-4	Methyl tert-Butyl Ether	11 U
75-34-3	1,1-Dichloroethane	11 U
156-59-2	cis-1,2-Dichloroethene	11 U
78-93-3	2-Butanone	11 U
67-66-3	Chloroform	11 U
71-55-6	1,1,1-Trichloroethane	11 U
110-82-7	Cyclohexane	11 U
56-23-5	Carbon Tetrachloride	11 U
71-43-2	Benzene	11 U
107-06-2	1,2-Dichloroethane	11 U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SK8

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-01B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5115

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	3	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SK8

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-01B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5115

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.06	14	NJ
2.				
3.				
4.				
5.				
6.				
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29.				
30.				

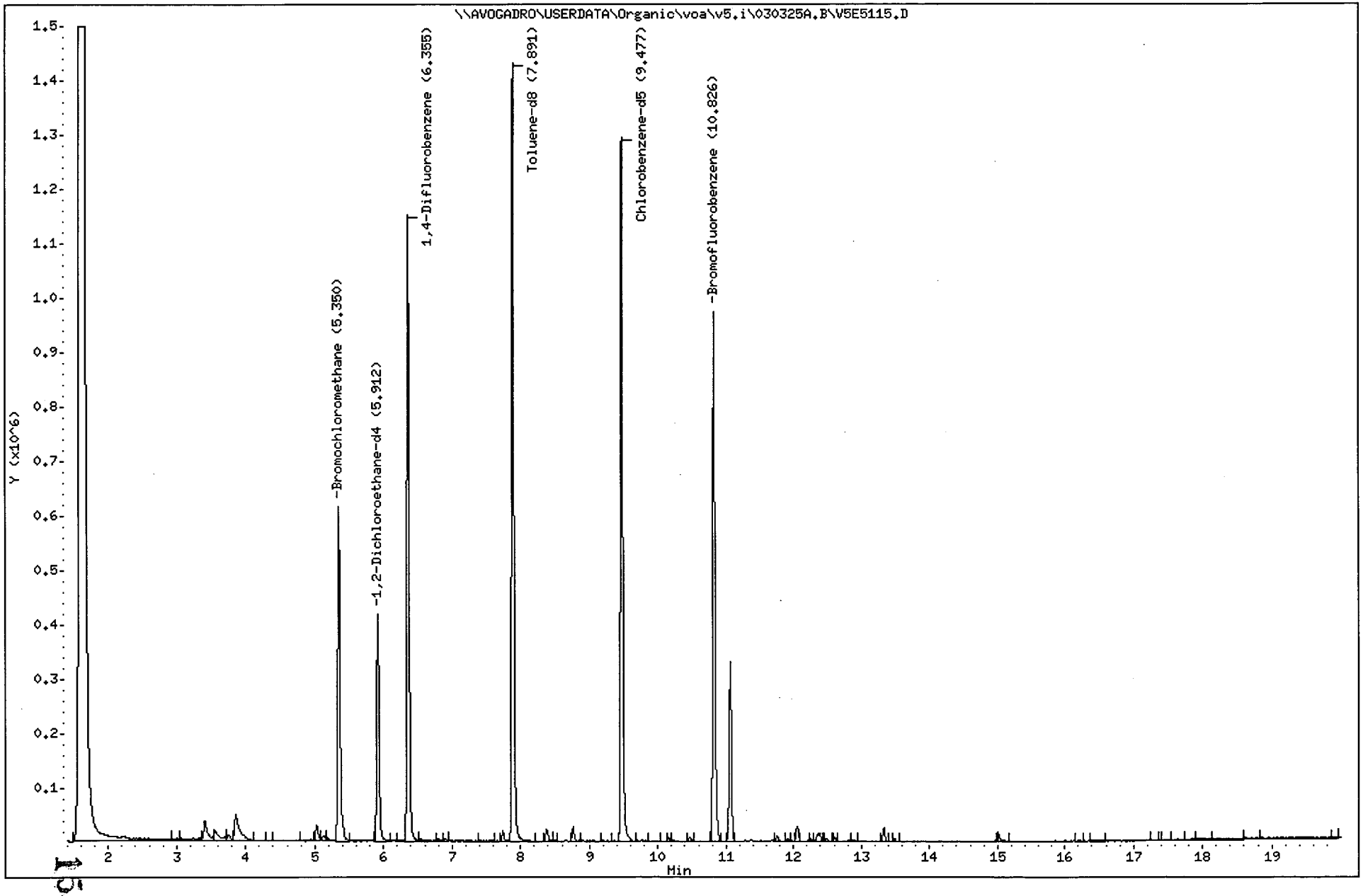
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D
Date : 25-MAR-2003 21:20
Client ID: YOSK8
Sample Info: EPA,B0443-01B,YOSK8,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5115.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D
Lab Smp Id: B0443-01B Client Smp ID: Y0SK8
Inj Date : 25-MAR-2003 21:20
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-01B,Y0SK8,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D ✓
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g) ✓
M	8.000	% Moisture (not decanted) ✓

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.410	3.419	(0.637)	88315	25.2374	27
11 Methyl Acetate	43	3.755	3.764	(0.702)	20003	3.32873	4(a)
12 Methylene Chloride	84	3.863	3.872	(0.722)	61828	5.44683	6(a)
* 18 Bromochloromethane	128	5.350	5.359	(1.000)	209175	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.912	5.921	(1.105)	328742	52.6362	57
* 26 1,4-Difluorobenzene	114	6.355	6.354	(1.000)	1163047	50.0000	
32 4-Methyl-2-Pentanone	43	7.744	7.743	(0.817)	17770	2.41796	3(a)
$ 33 Toluene-d8	98	7.891	7.891	(0.833)	1261490	48.4781	53
* 42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	1034790	50.0000	
$ 50 Bromofluorobenzene	95	10.826	10.826	(1.142)	471249	45.4244	49

QC Flag Legend

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

SB 4/3/03

KW

Data File: V5E5115.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D
Lab Smp Id: B0443-01B Client Smp ID: Y0SK8
Inj Date : 25-MAR-2003 21:20
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-01B,Y0SK8,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	8.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 42 Chlorobenzene-d5	9.477	2864449	50.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
11.063	745743	13.0172155	14	87	NBS75K.L	41966	42

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D

Date : 25-MAR-2003 21:20

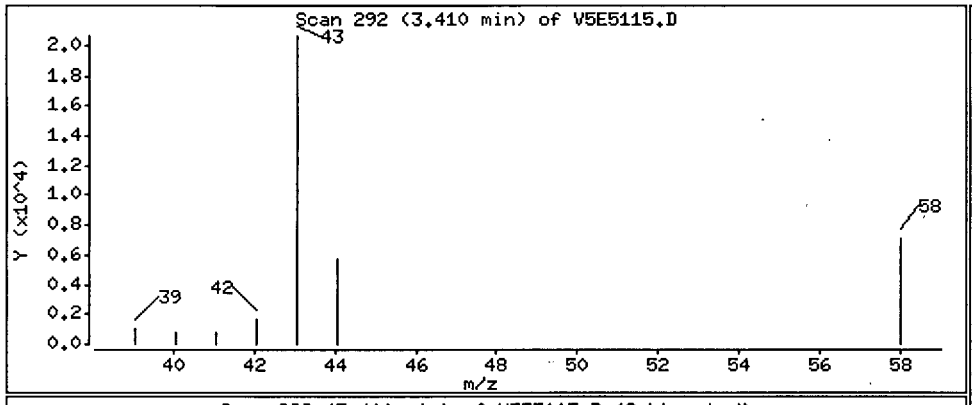
Client ID: Y0SK8 Instrument: v5.i

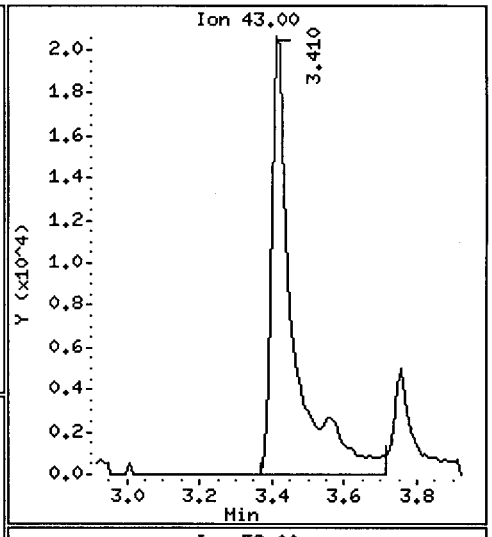
Sample Info: EPA,B0443-01B,Y0SK8,V5B0325C,,Y0SK8

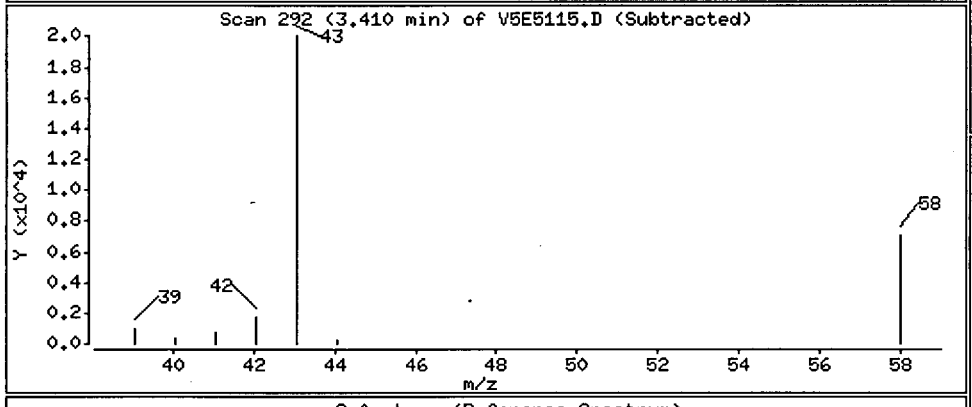
Operator: TRA

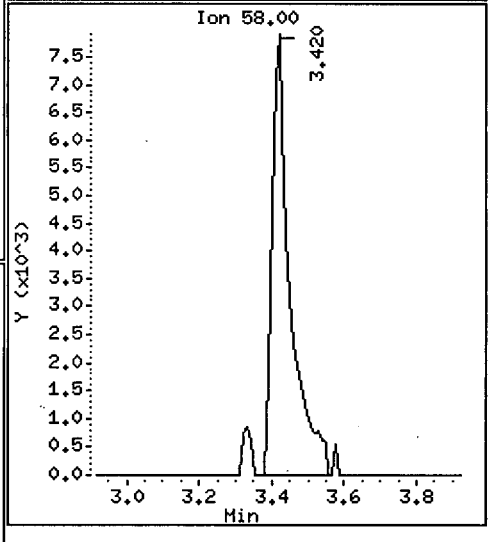
Column phase: DB-624 Column diameter: 0.25

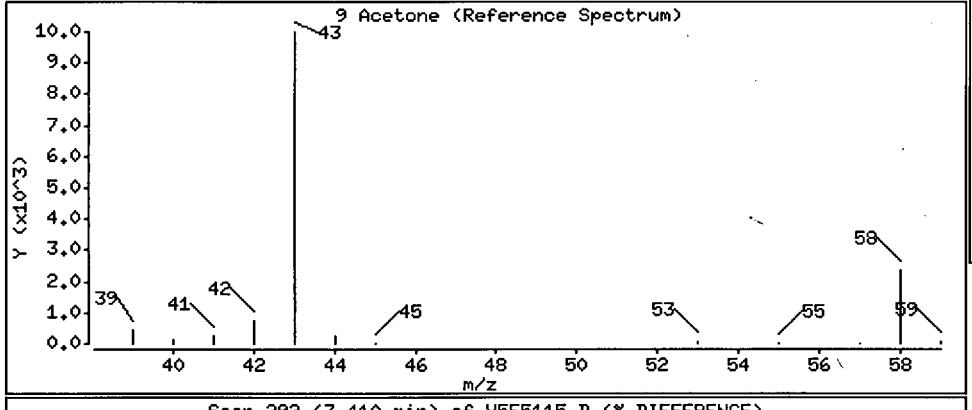
9 Acetone Concentration: 27 ug/Kg

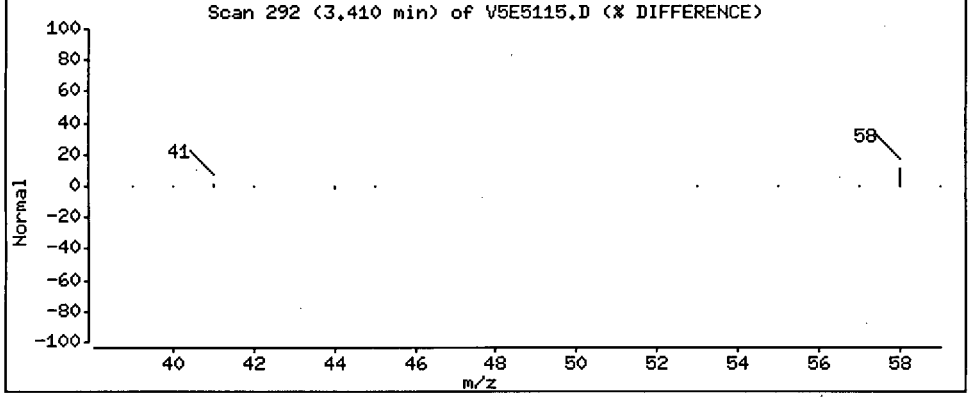












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D

Date : 25-MAR-2003 21:20

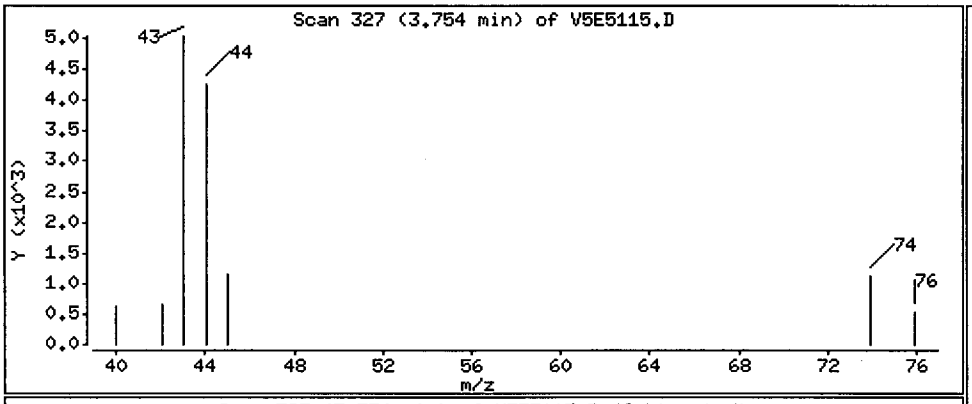
Client ID: YOSK8 | Instrument: v5.i

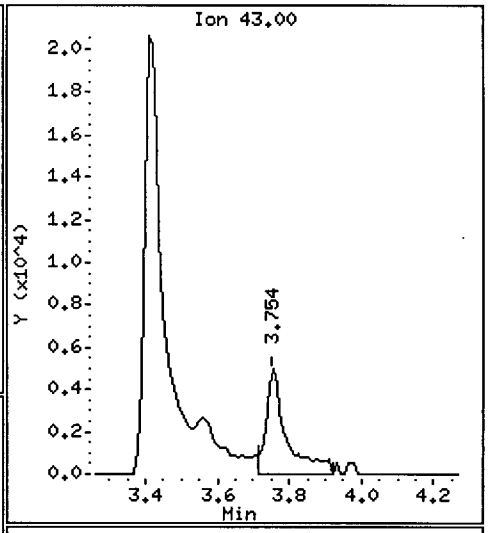
Sample Info: EPA,B0443-01B,YOSK8,V5B0325C,,YOSK8

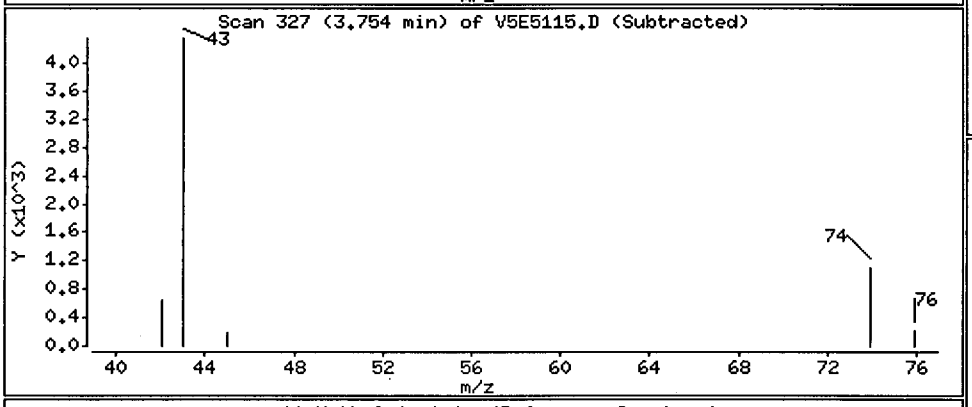
Operator: TRA

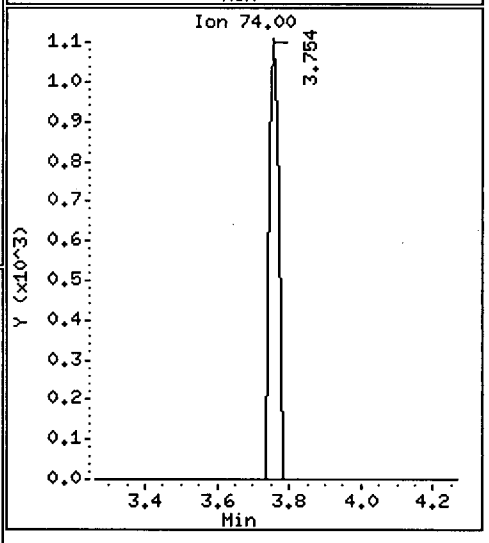
Column phase: DB-624 | Column diameter: 0.25

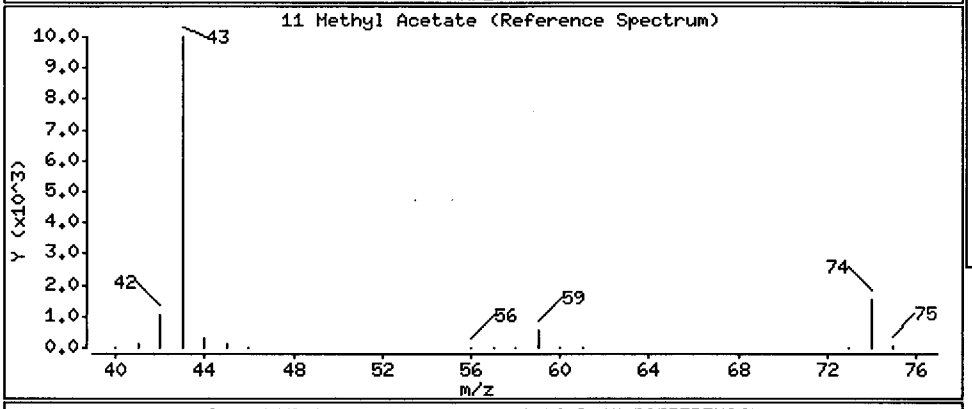
11 Methyl Acetate | Concentration: 4 ug/Kg

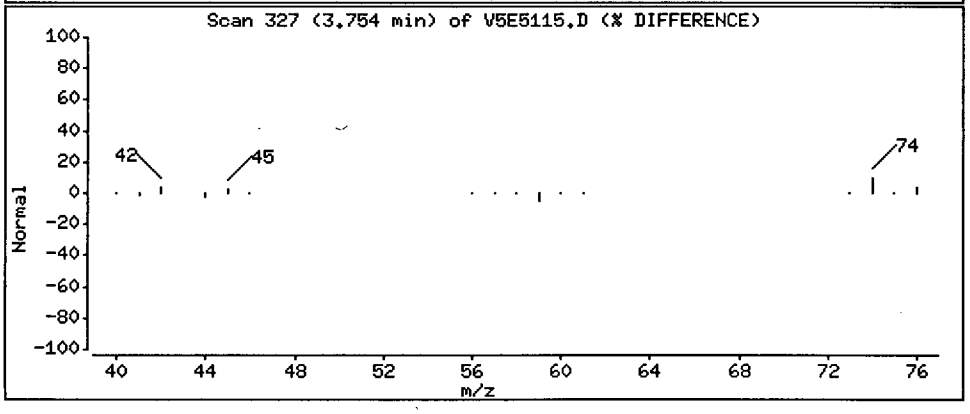












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D

Date : 25-MAR-2003 21:20

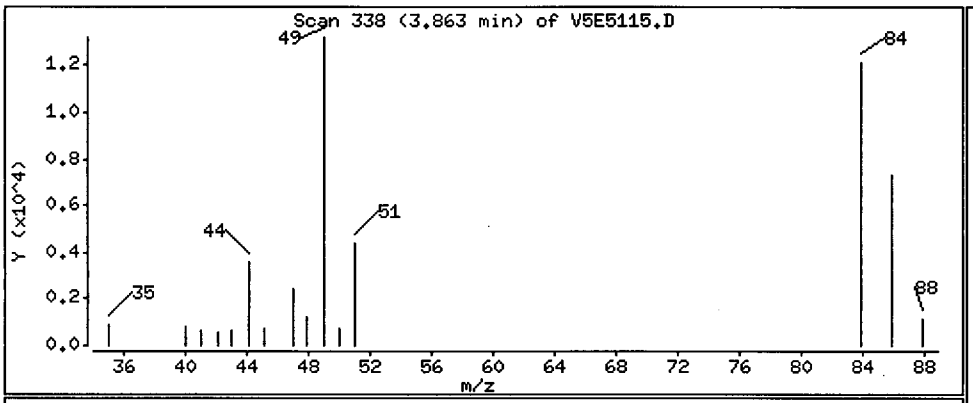
Client ID: YOSK8 Instrument: v5.i

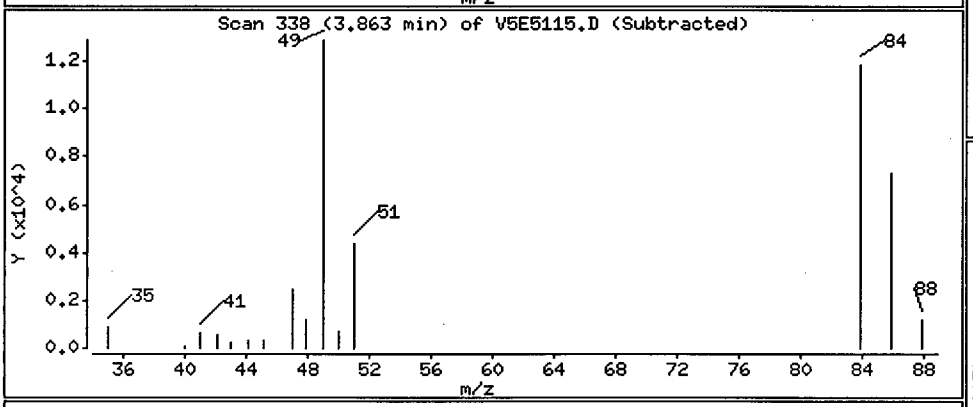
Sample Info: EPA,B0443-01B,YOSK8,V5B0325C,,YOSK8

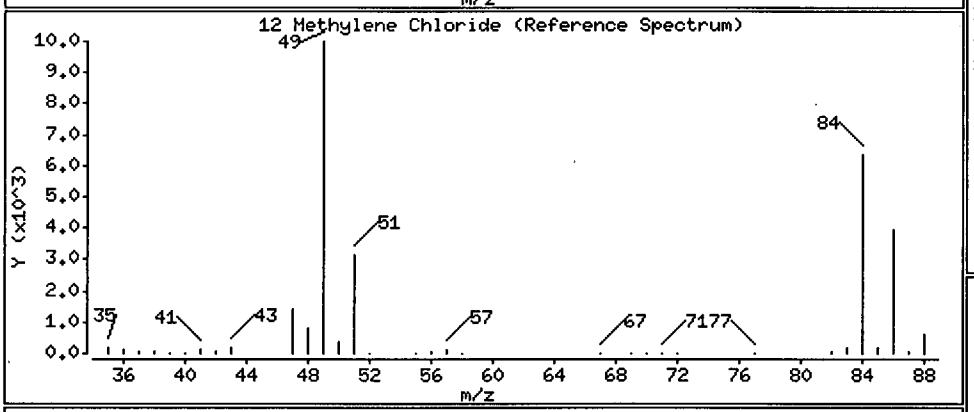
Operator: TRA

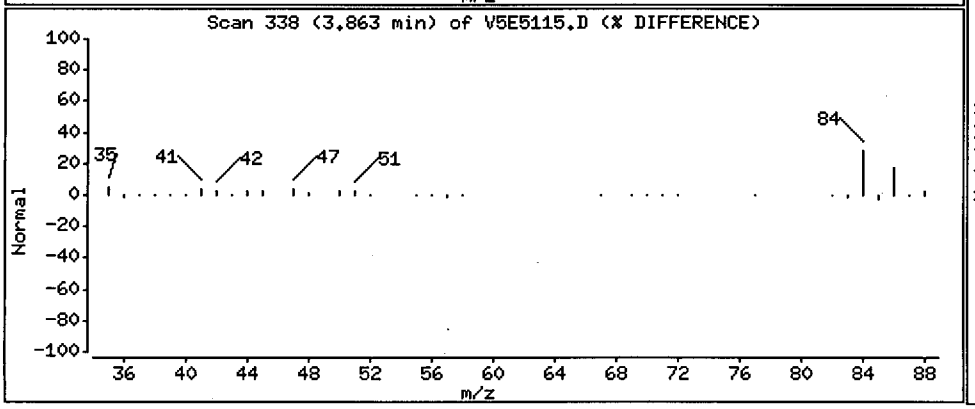
Column phase: DB-624 Column diameter: 0.25

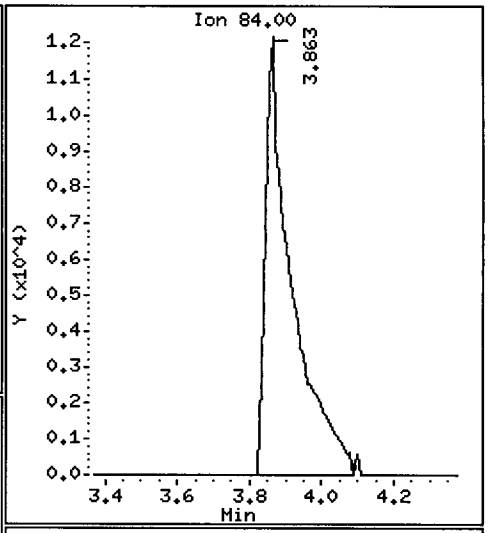
12 Methylene Chloride Concentration: 6 ug/Kg

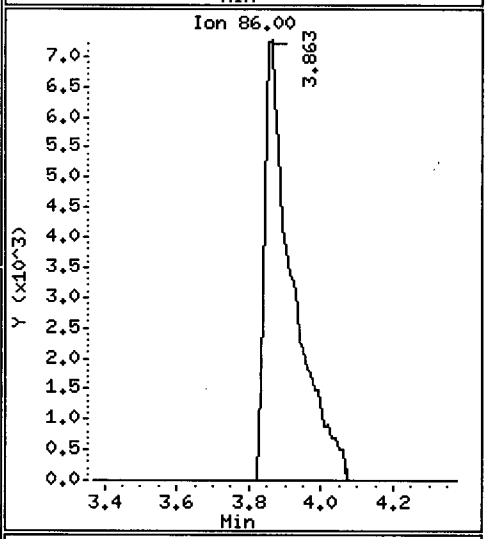


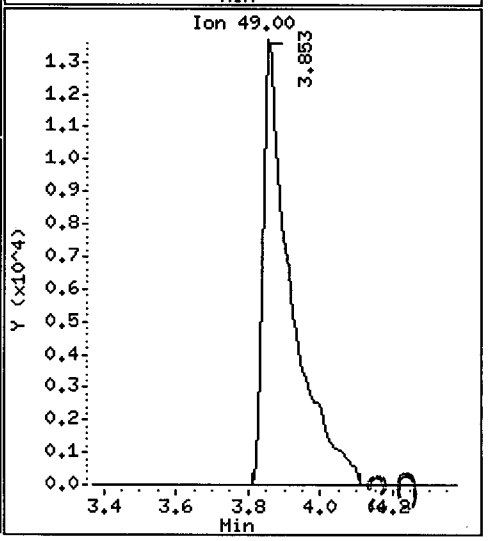












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Date : 25-MAR-2003 21:20

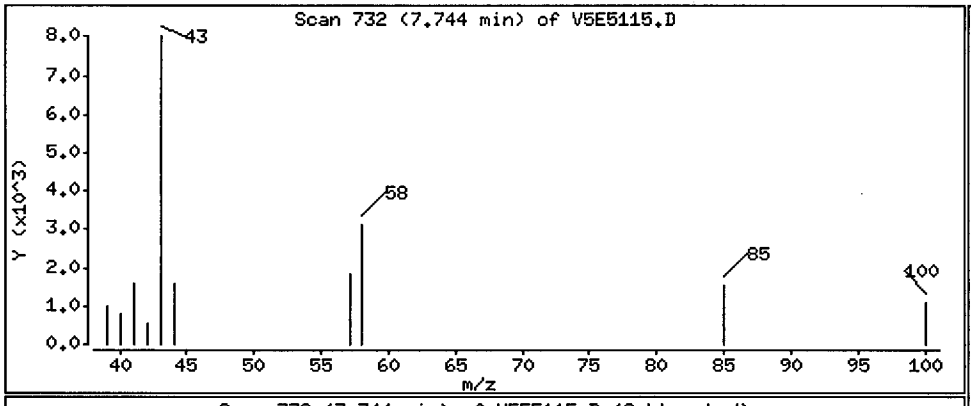
Client ID: YOSK8 Instrument: v5.i

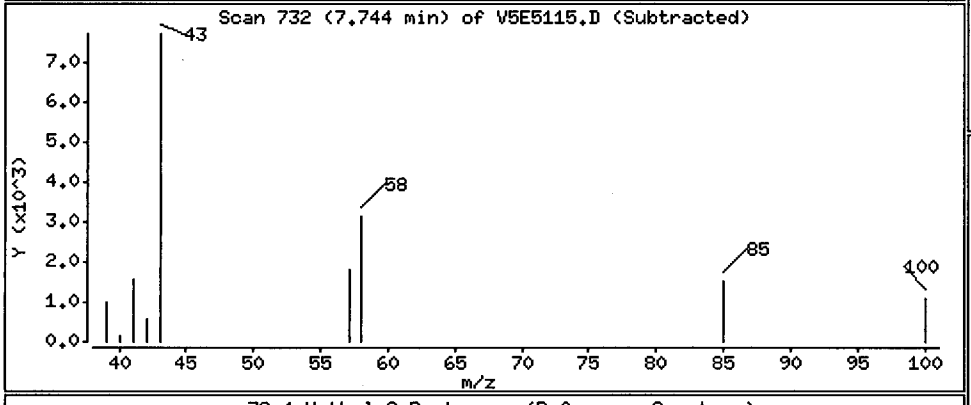
Sample Info: EPA,B0443-01B,YOSK8,V5B0325C,,YOSK8

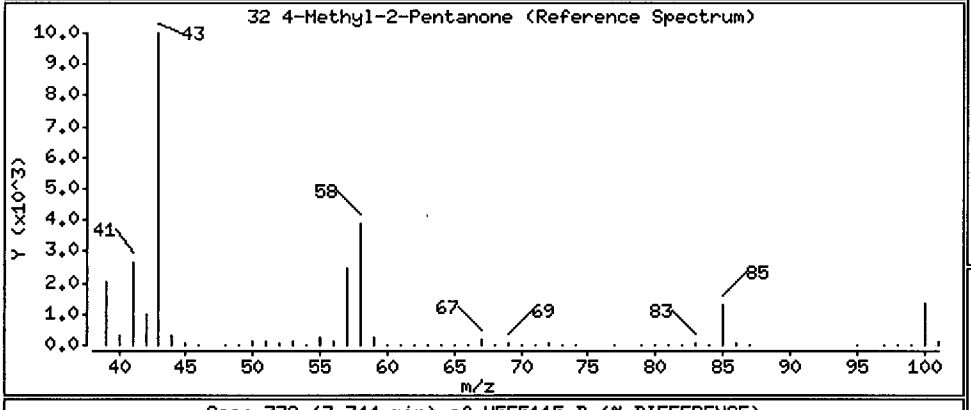
Operator: TRA

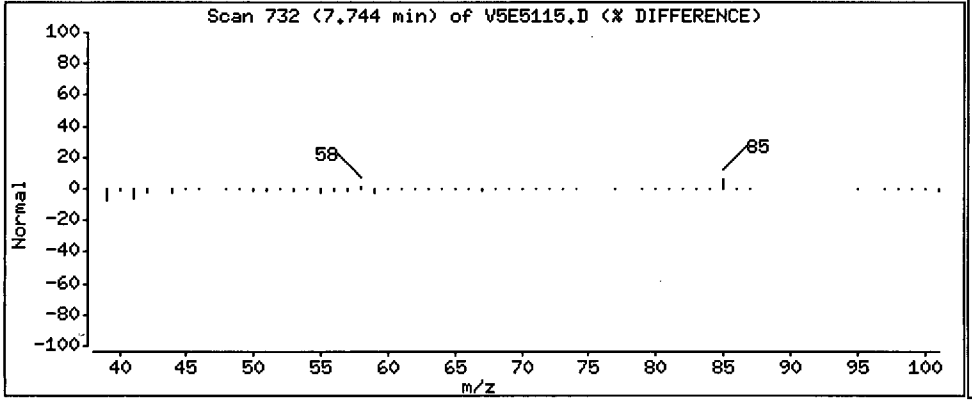
Column phase: DB-624 Column diameter: 0.25

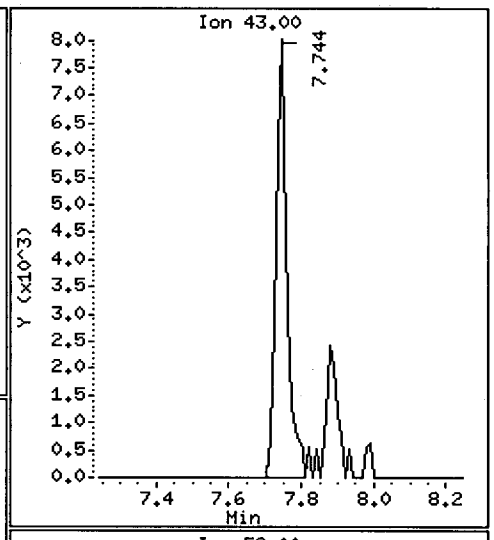
32 4-Methyl-2-Pentanone Concentration: 3 ug/Kg

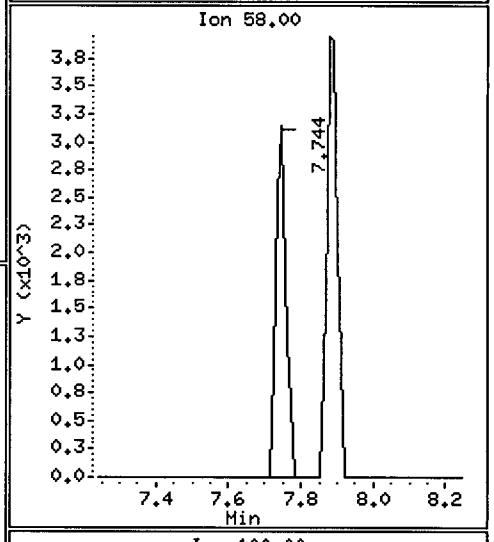


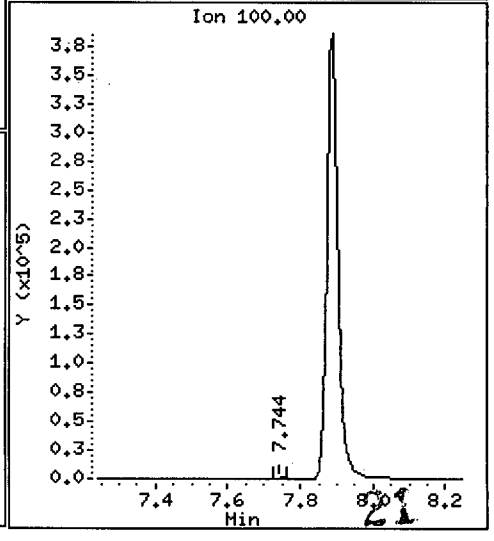












21

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5115.D

Date : 25-MAR-2003 21:20

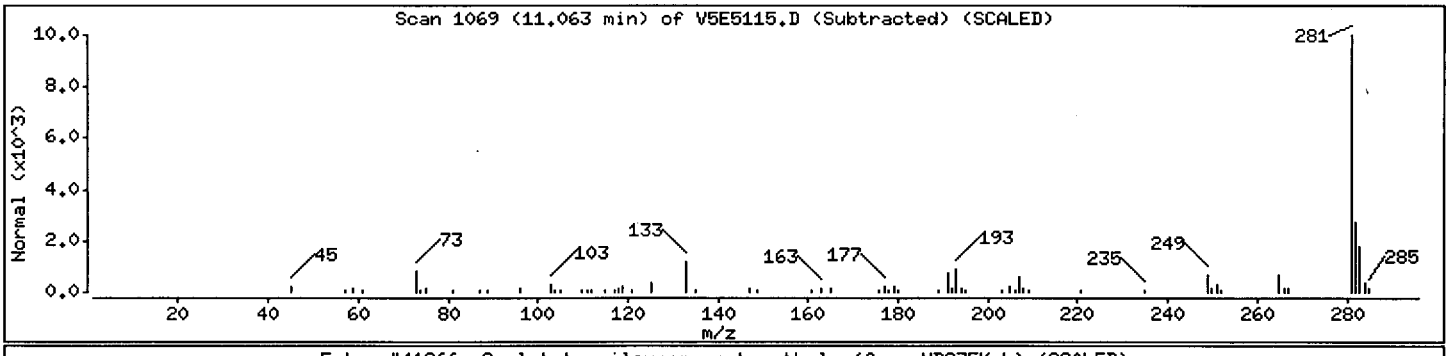
Client ID: Y0SK8 Instrument: v5.i

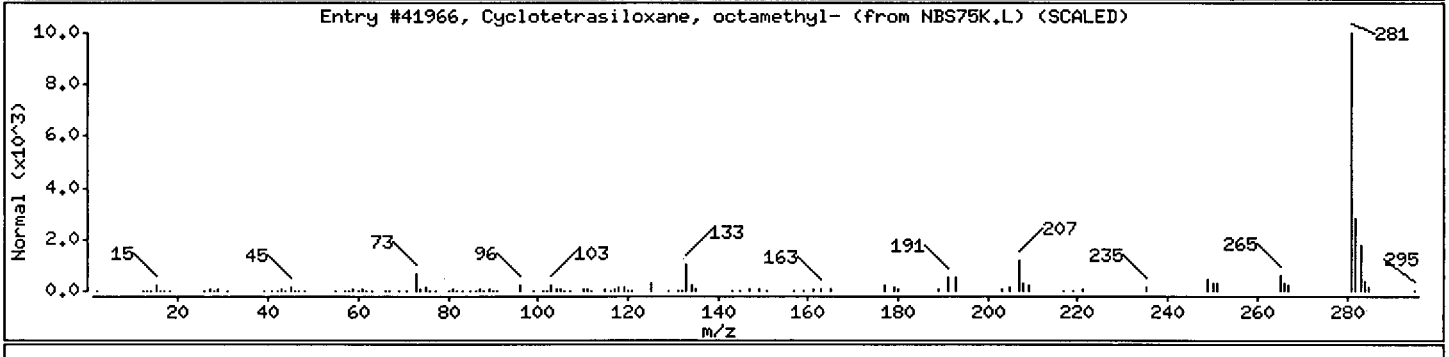
Sample Info: EPA,B0443-01B,Y0SK8,V5B0325C,,Y0SK8

Operator: TRA

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	87	C8H24O4Si4	296





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SK9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-02B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5116

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 12 Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	8	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	16	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SK9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-02B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5116

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 12 Date Analyzed: 03/25/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	10	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	1	J
1330-20-7	Xylene (Total)	2	J
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SK9

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-02B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5116

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 12 Date Analyzed: 03/25/03

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

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.06	8	NJ
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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29.				
30.				

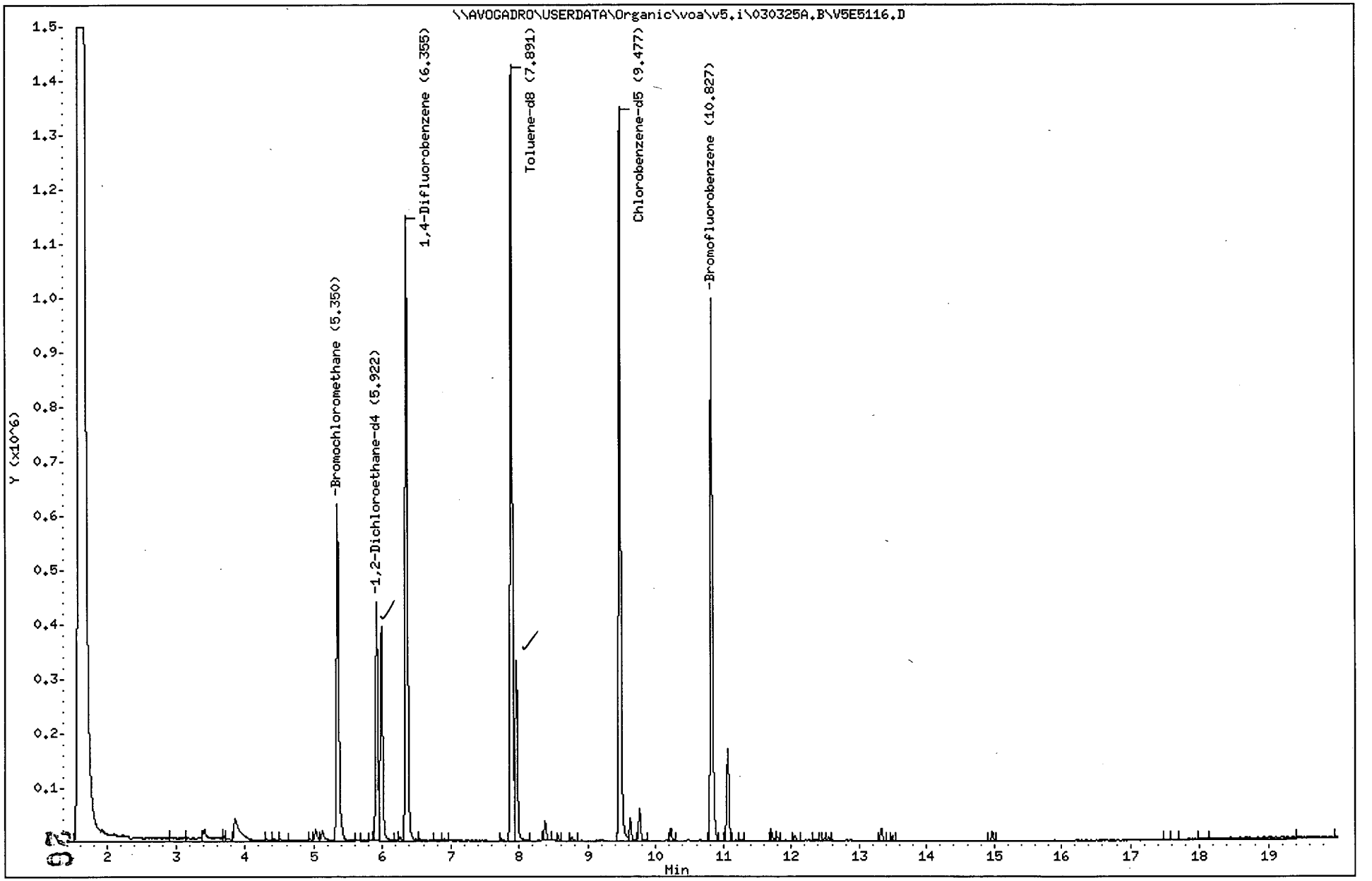
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D
Date : 25-MAR-2003 21:49
Client ID: YOSK9
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5116.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D
Lab Smp Id: B0443-02B Client Smp ID: Y0SK9
Inj Date : 25-MAR-2003 21:49
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-02B,Y0SK9,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	12.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	9 Acetone	43	3.420	3.419	(0.639)	41076	11.7376	13
	12 Methylene Chloride	84	3.863	3.872	(0.722)	62121	5.47240	6(a)
	16 2-Butanone	43	5.124	5.123	(0.958)	36893	7.27293	8(a)
*	18 Bromochloromethane	128	5.350	5.359	(1.000)	209184	50.0000	
$	23 1,2-Dichloroethane-d4	65	5.922	5.921	(1.107)	348922	55.8649	63
	25 Benzene	78	5.990	5.990	(0.943)	427249	13.6983	16
*	26 1,4-Difluorobenzene	114	6.355	6.354	(1.000)	1161619	50.0000	
$	33 Toluene-d8	98	7.891	7.891	(0.833)	1270477	49.3366	56
	34 Toluene	91	7.960	7.960	(0.840)	296585	9.12505	10(a)
M	41 Xylene (Total)	106				23868	1.81175	2(a)
*	42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	1024027	50.0000	
	44 Ethylbenzene	106	9.625	9.624	(1.016)	12034	1.09303	1(aQ)
	45 m,p-Xylene	106	9.763	9.762	(1.030)	23868	1.74011	2(a)
$	50 Bromofluorobenzene	95	10.827	10.826	(1.142)	479748	46.7296	53

SB 4/3/03

Data File: V5E5116.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D
Lab Smp Id: B0443-02B Client Smp ID: Y0SK9
Inj Date : 25-MAR-2003 21:49
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-02B,Y0SK9,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	12.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 42 Chlorobenzene-d5	9.477	2845363	50.000

	CONCENTRATIONS				QUANT			
	RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2			
	11.063	380814	6.69183510	8	87	NBS75K.L	41966	42

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

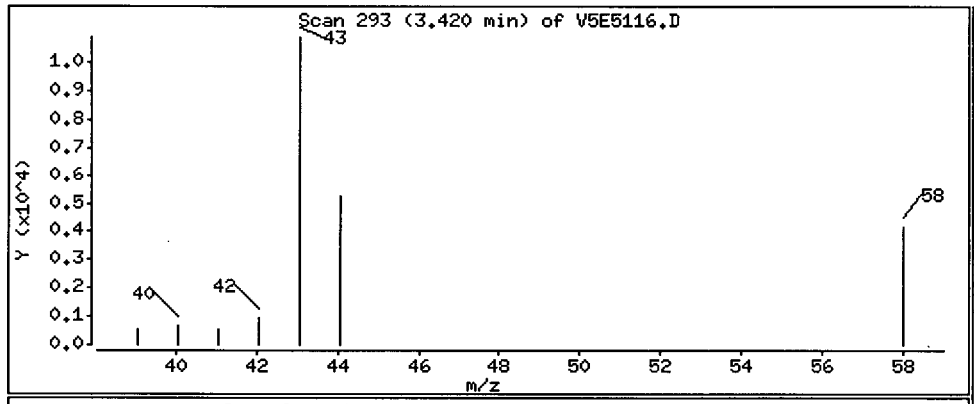
Client ID: YOSK9 Instrument: v5.i

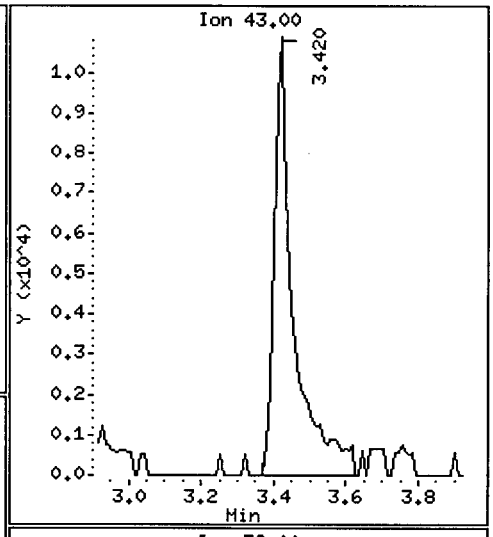
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

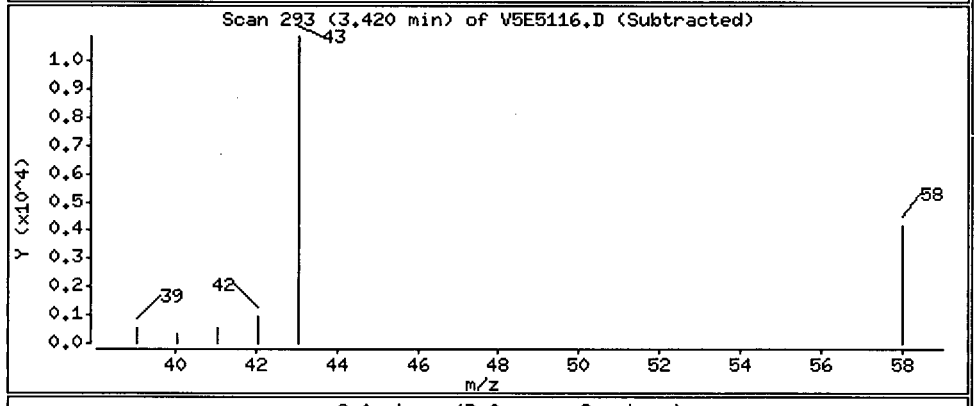
Operator: TRA

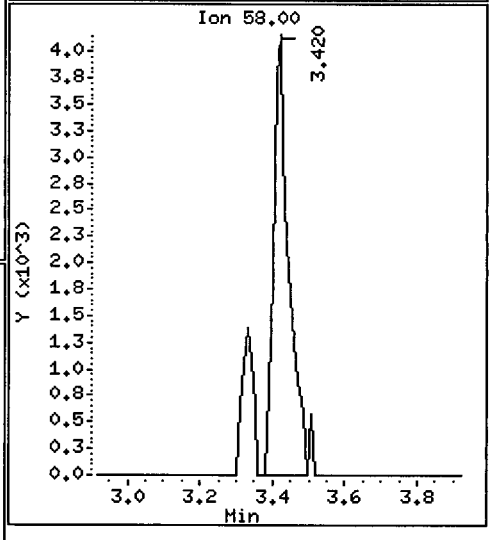
Column phase: DB-624 Column diameter: 0.25

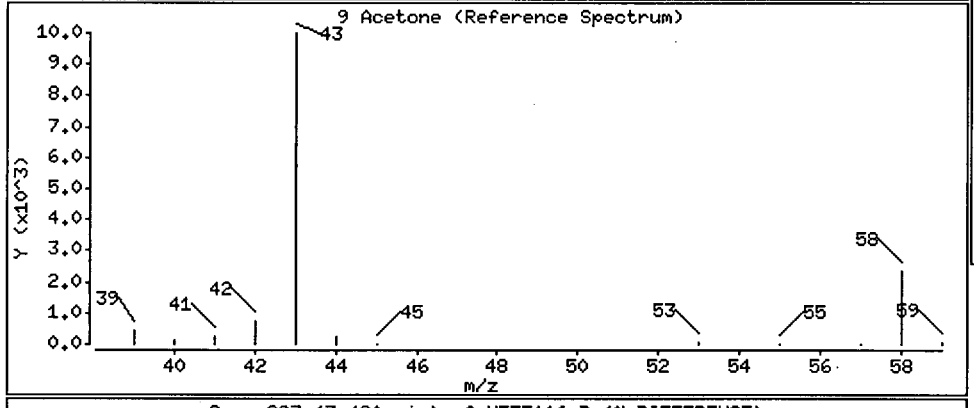
9 Acetone Concentration: 13 ug/Kg

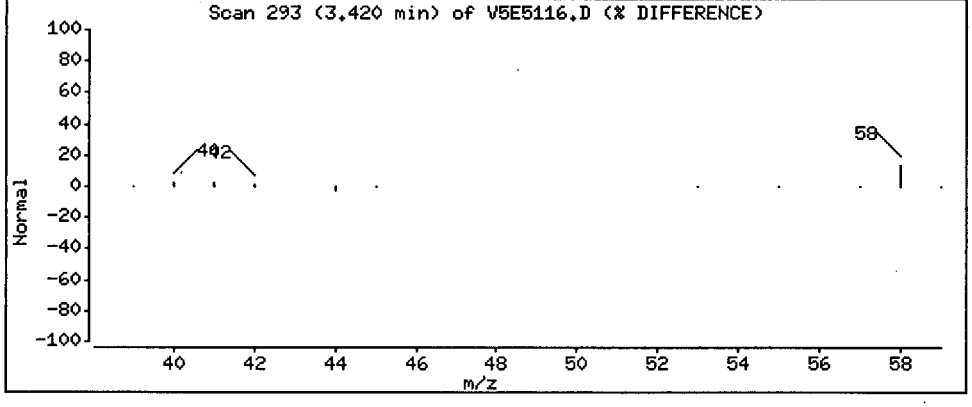












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

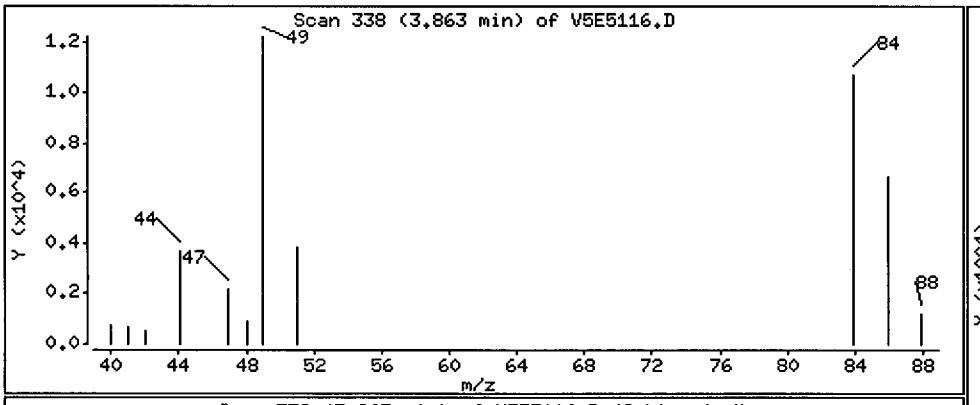
Client ID: Y0SK9 Instrument: v5.i

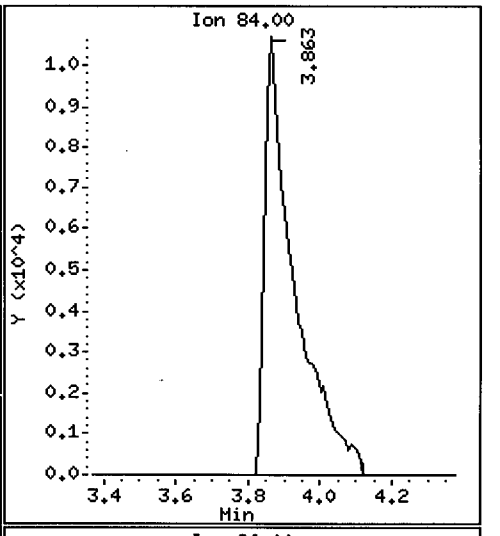
Sample Info: EPA,B0443-02B,Y0SK9,V5B0325C,,Y0SK8

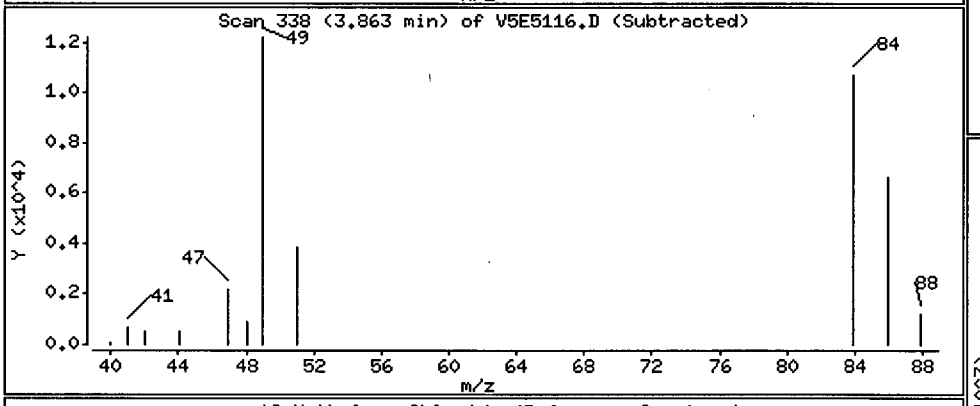
Operator: TRA

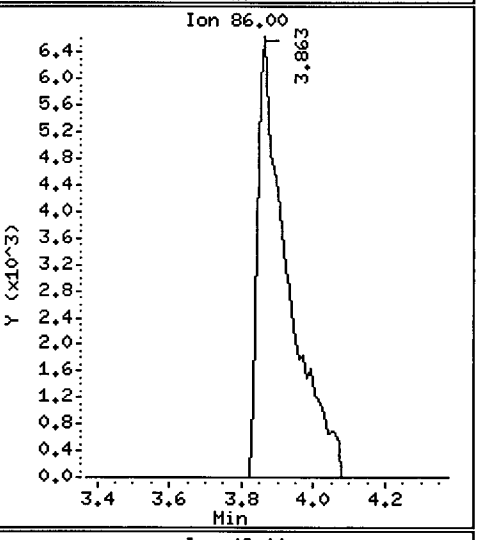
Column phase: DB-624 Column diameter: 0.25

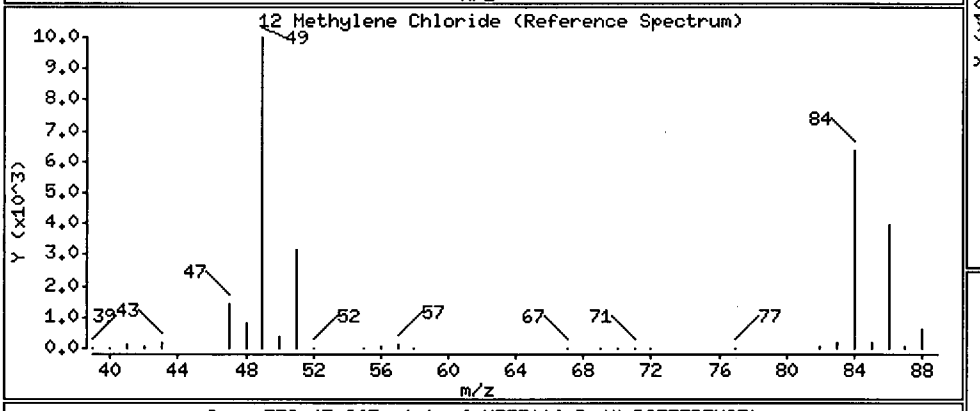
12 Methylene Chloride Concentration: 6 ug/Kg

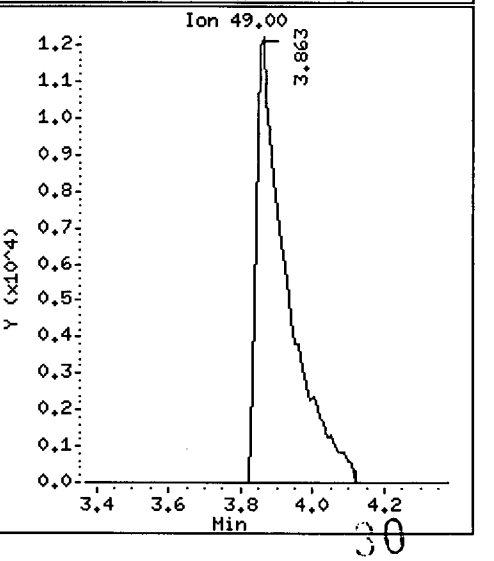


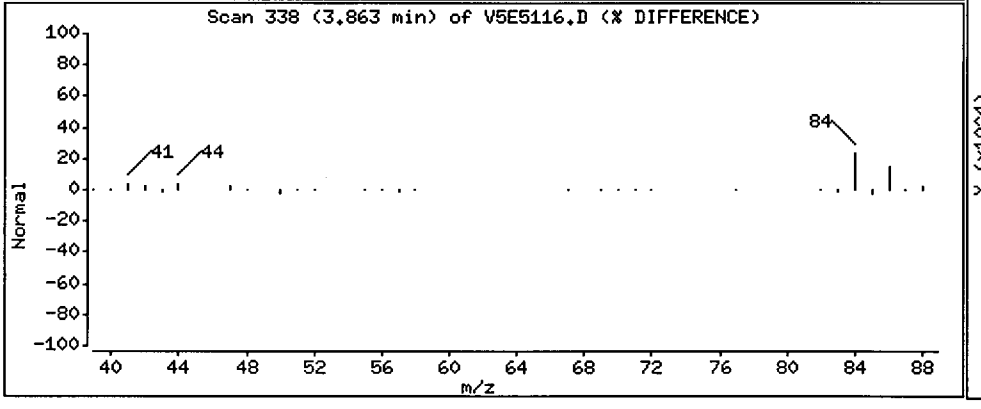












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

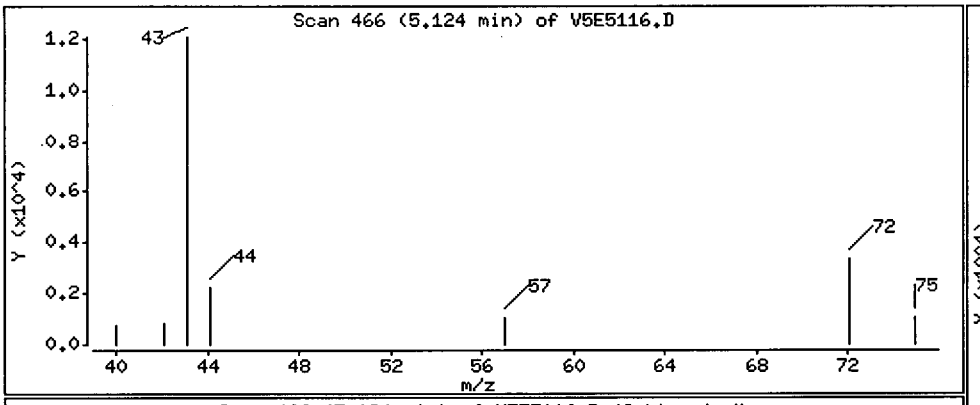
Client ID: Y0SK9 | Instrument: v5.i

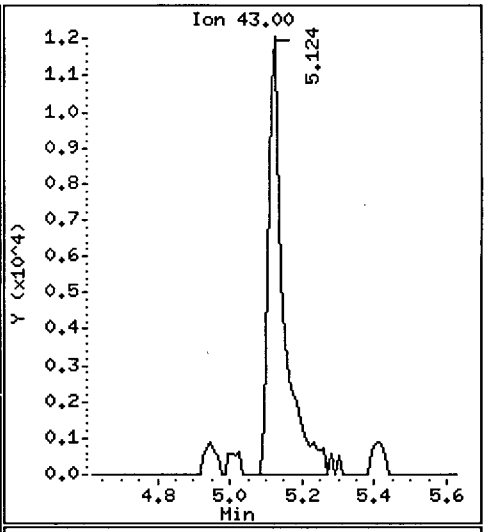
Sample Info: EPA,B0443-02B,Y0SK9,V5B0325C,,Y0SK8

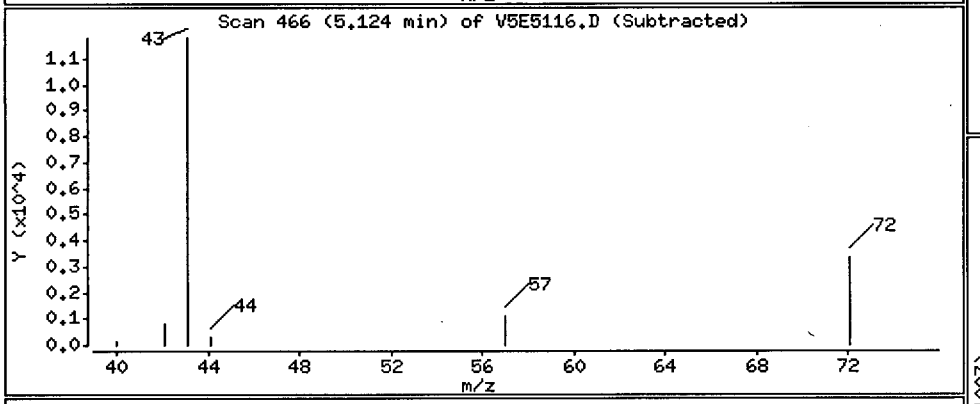
Operator: TRA

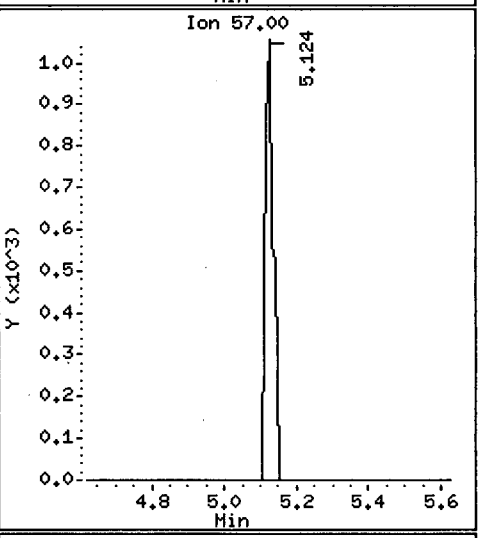
Column phase: DB-624 | Column diameter: 0.25

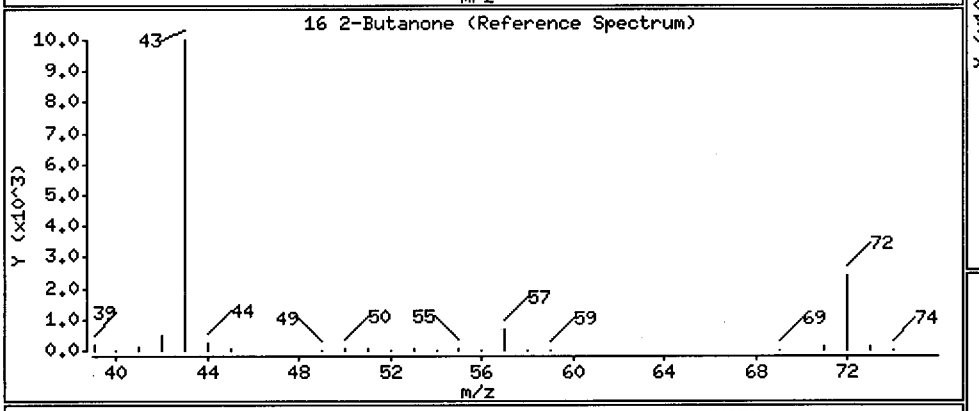
16 2-Butanone | Concentration: 8 ug/Kg

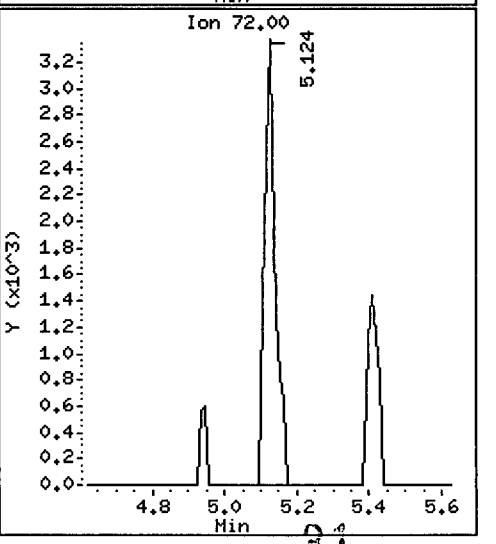


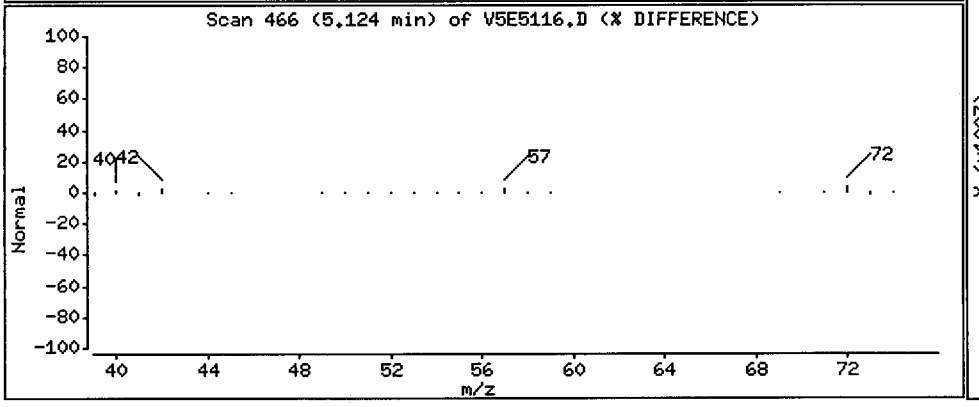












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

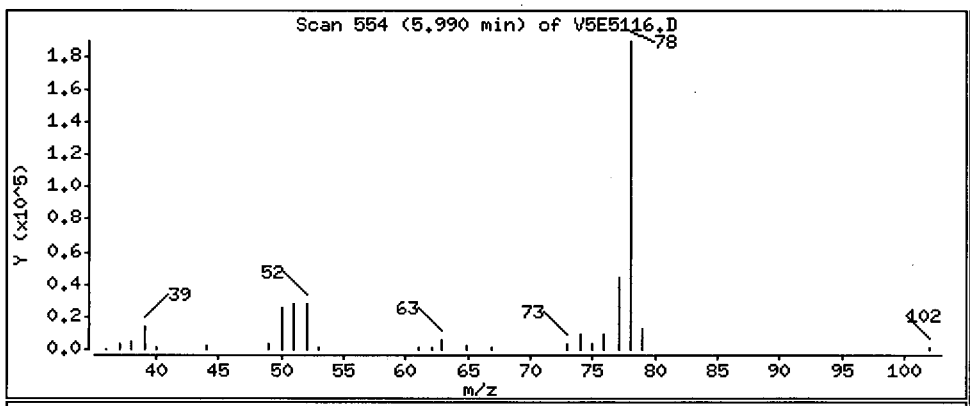
Client ID: YOSK9 Instrument: v5.i

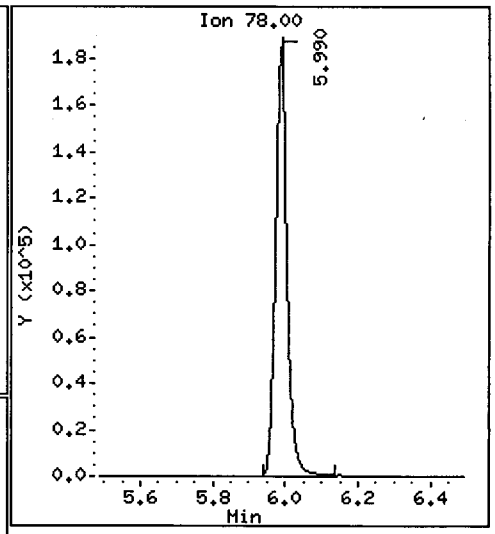
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

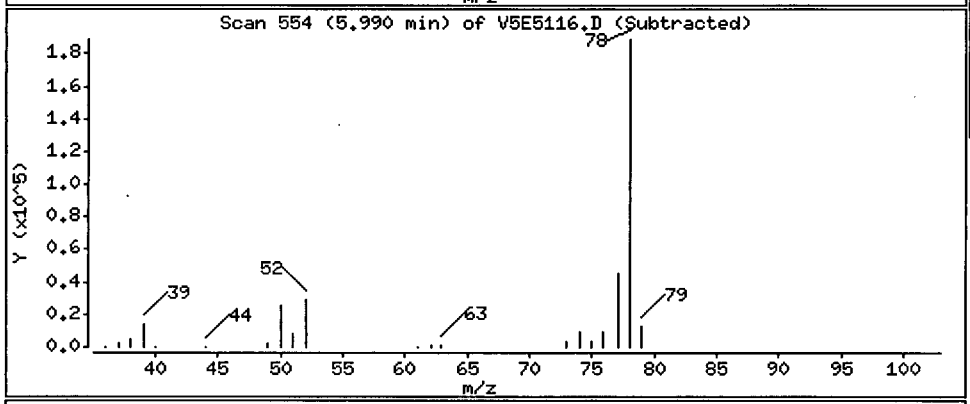
Operator: TRA

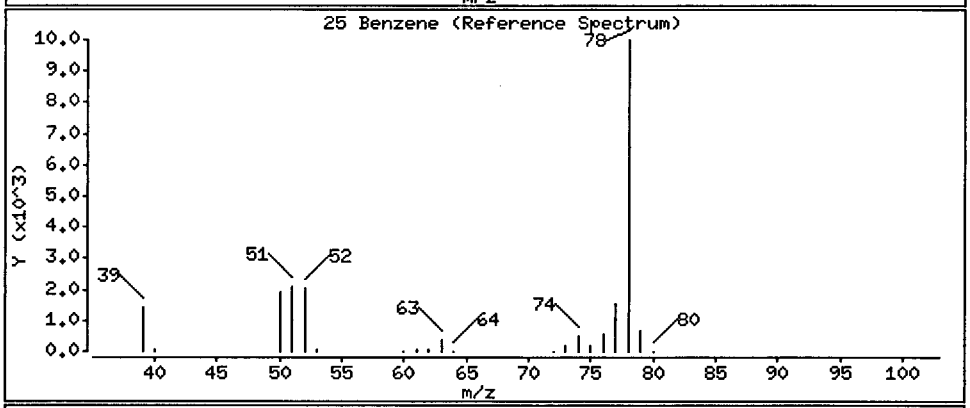
Column phase: DB-624 Column diameter: 0.25

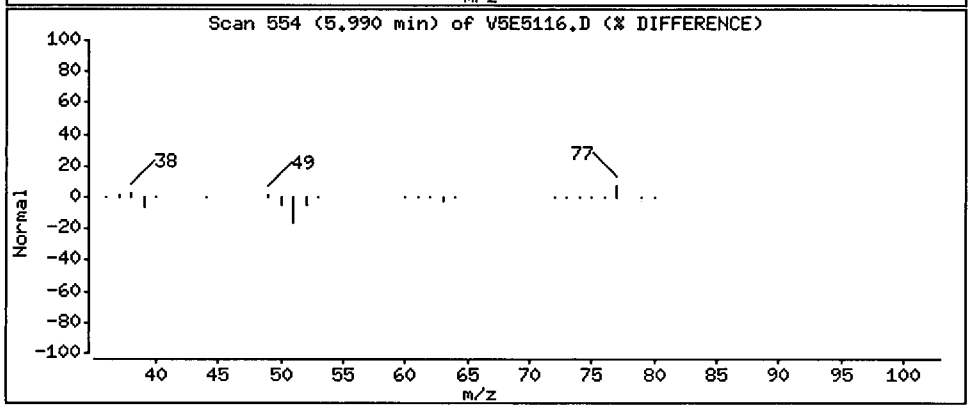
25 Benzene Concentration: 16 ug/Kg











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Date : 25-MAR-2003 21:49

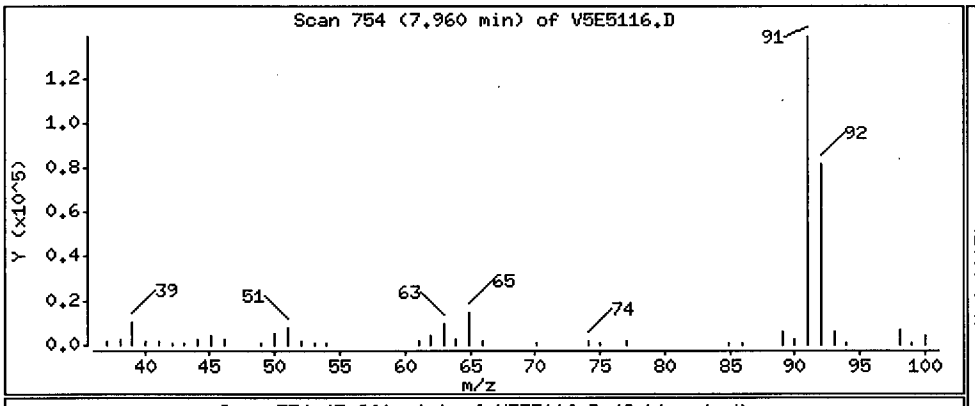
Client ID: YOSK9 Instrument: v5.i

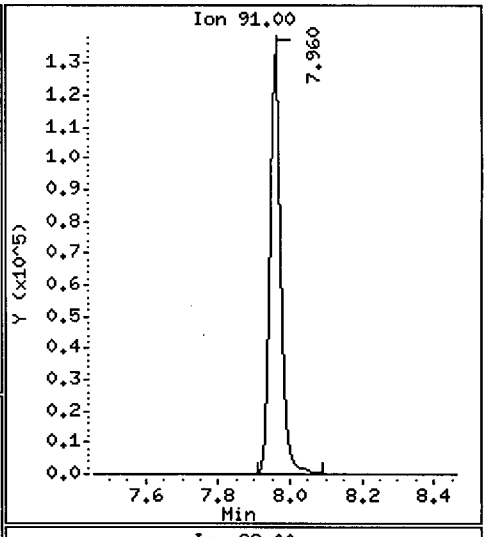
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

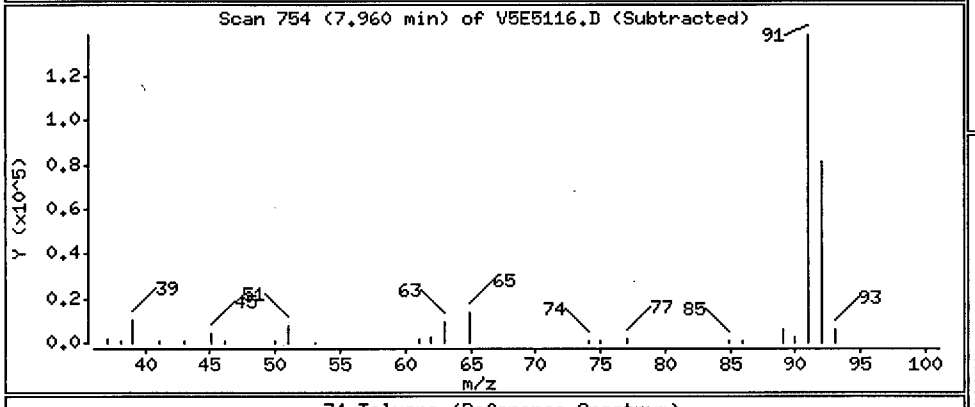
Operator: TRA

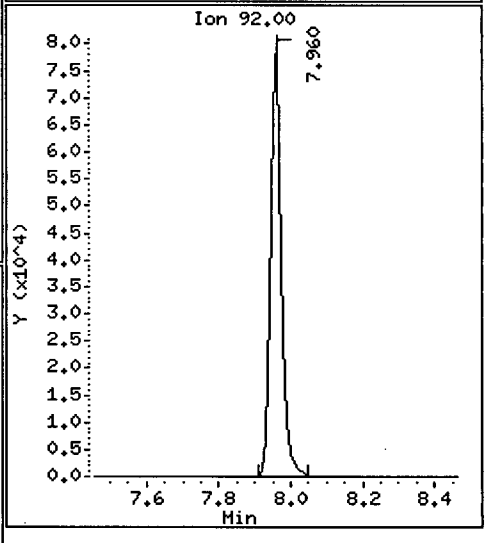
Column phase: DB-624 Column diameter: 0.25

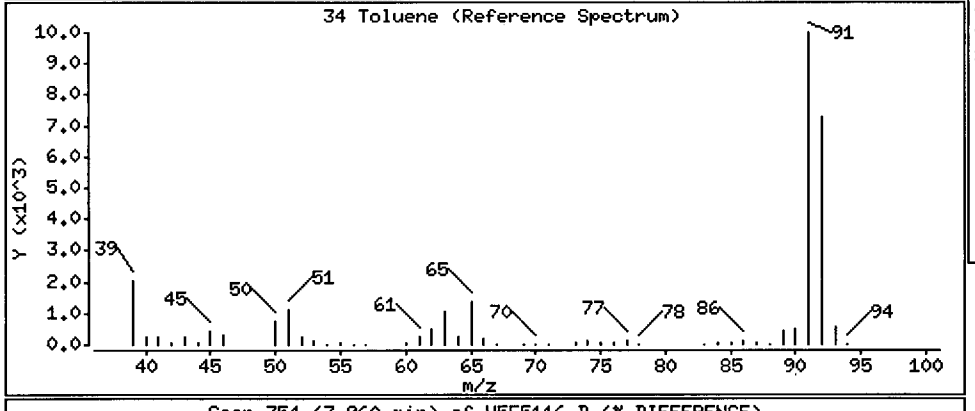
34 Toluene Concentration: 10 ug/Kg

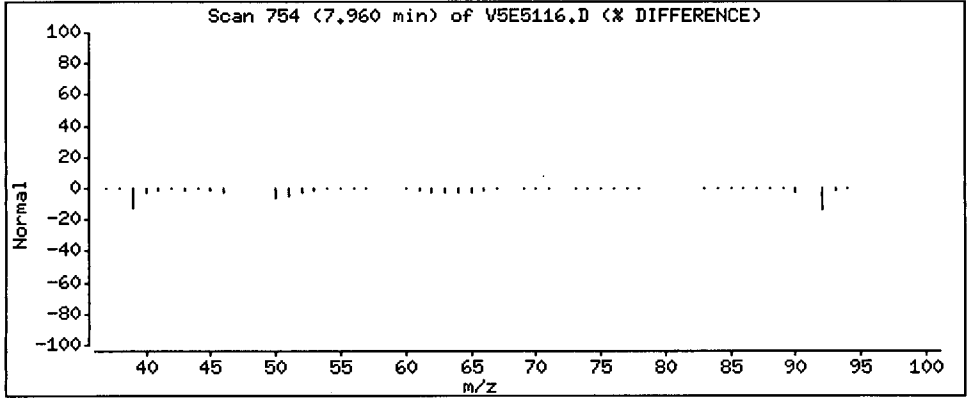












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

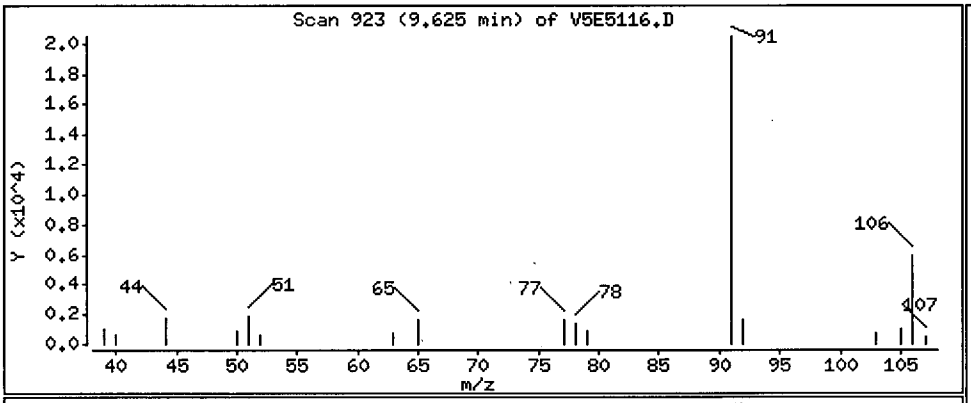
Client ID: YOSK9 Instrument: v5.i

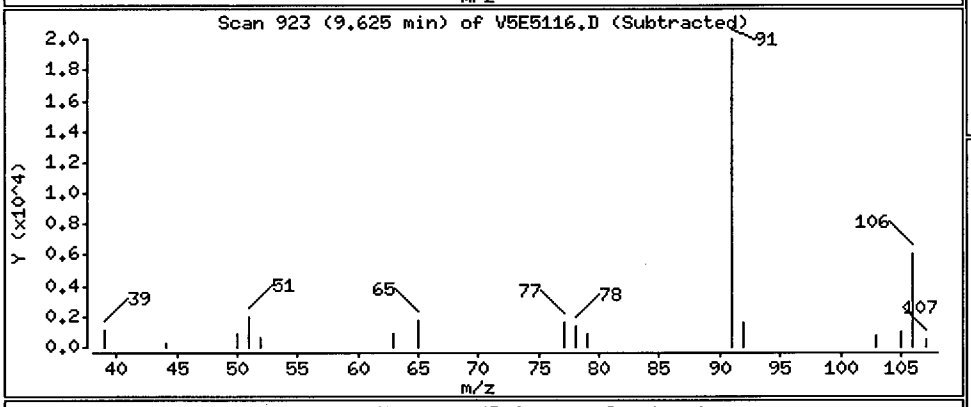
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

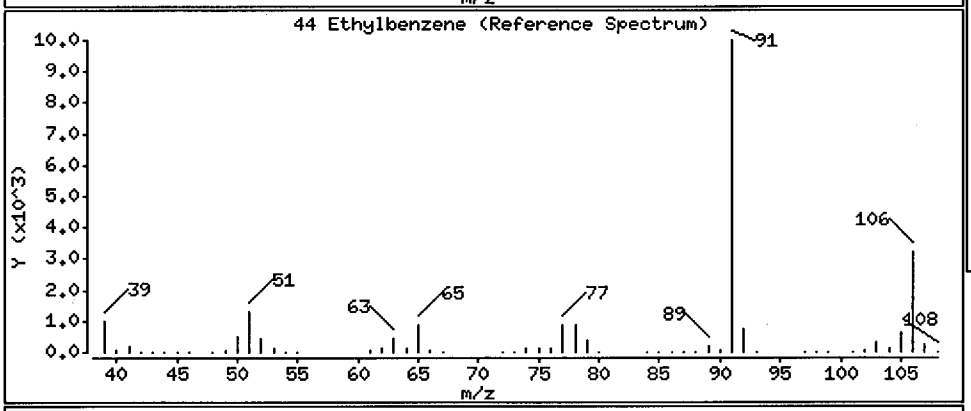
Operator: TRA

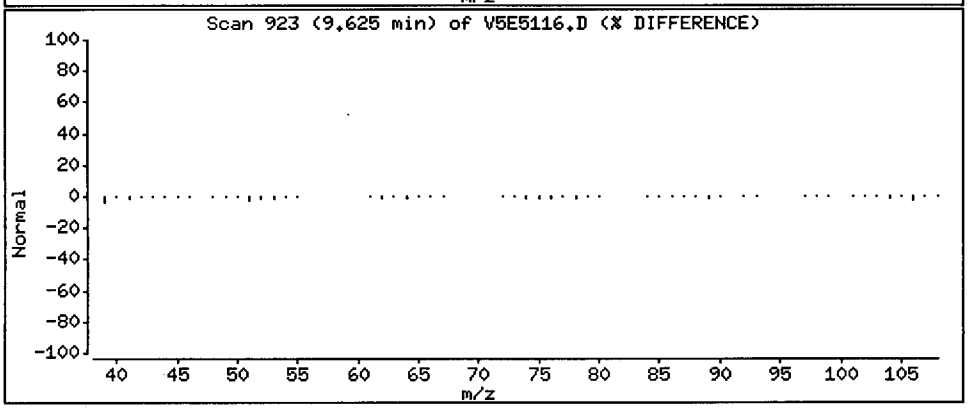
Column phase: DB-624 Column diameter: 0.25

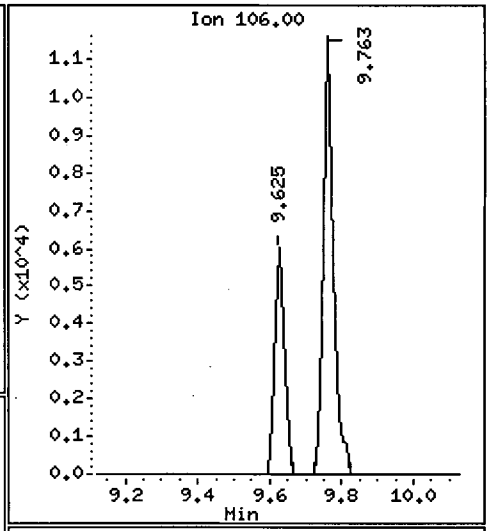
44 Ethylbenzene Concentration: 1 ug/Kg

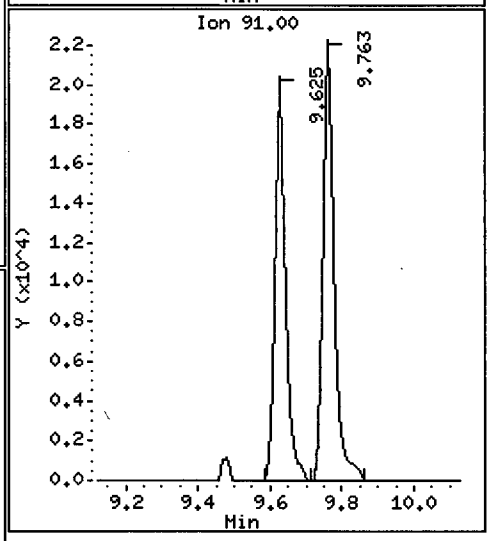












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Date : 25-MAR-2003 21:49

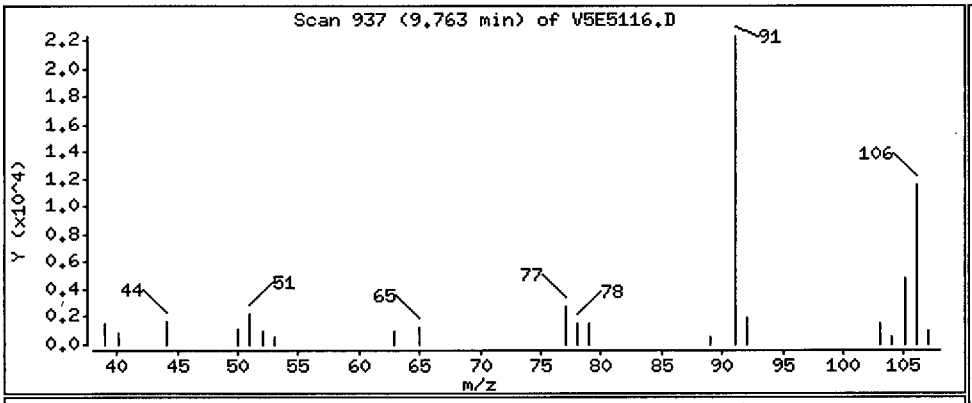
Client ID: YOSK9 Instrument: v5.i

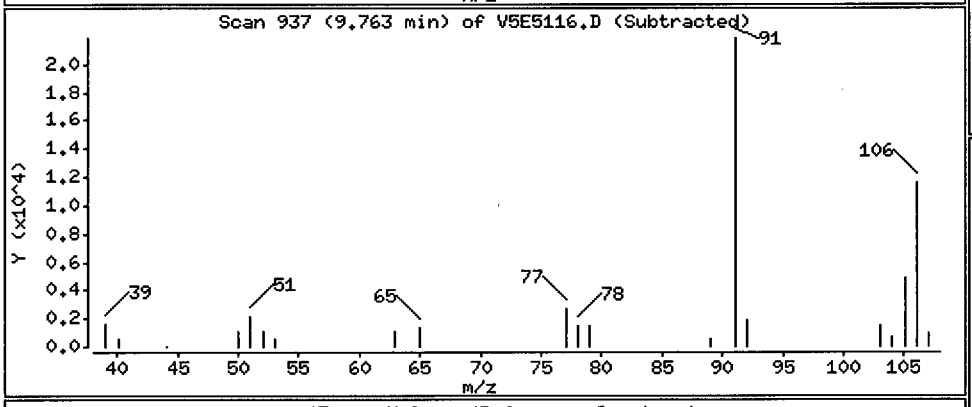
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

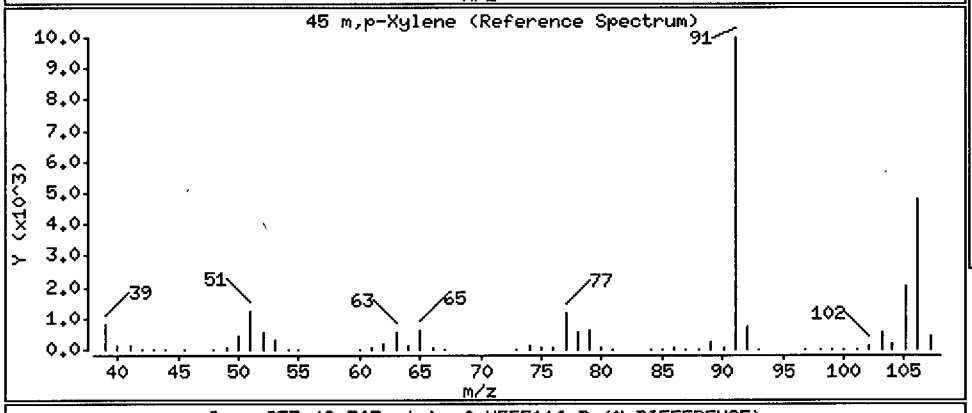
Operator: TRA

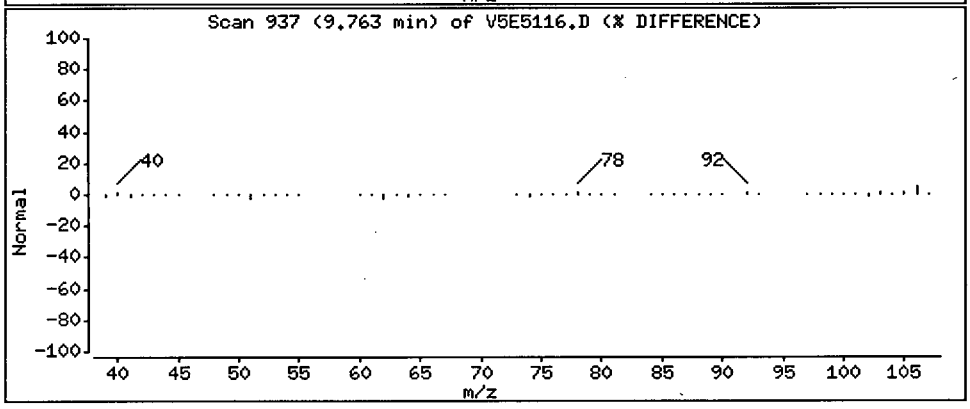
Column phase: DB-624 Column diameter: 0.25

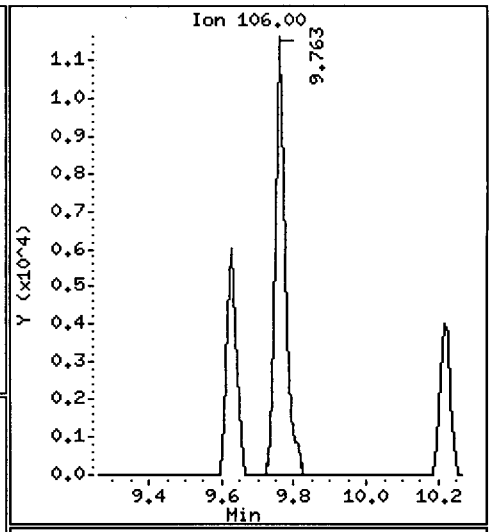
45 m,p-Xylene Concentration: 2 ug/Kg

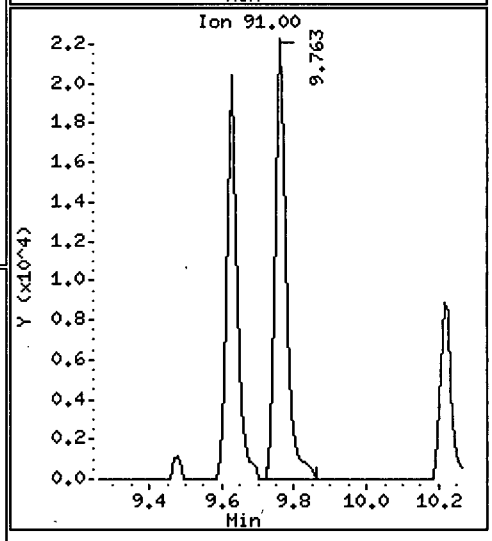












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5116.D

Date : 25-MAR-2003 21:49

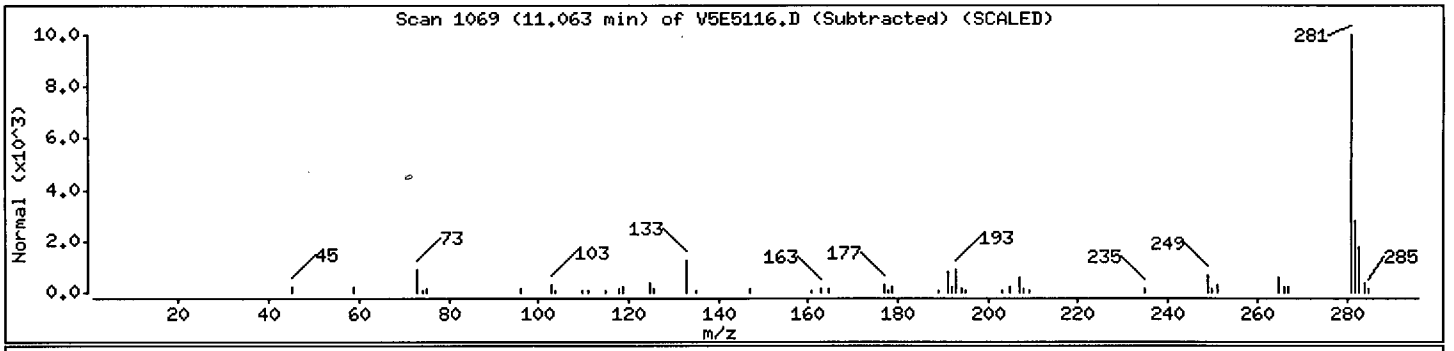
Client ID: YOSK9 Instrument: v5.i

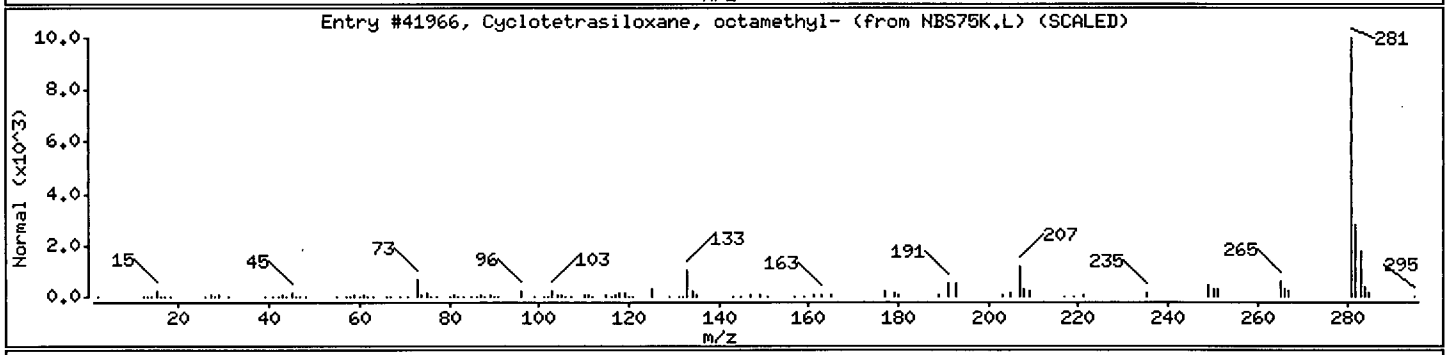
Sample Info: EPA,B0443-02B,YOSK9,V5B0325C,,YOSK8

Operator: TRA

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	87	C8H24O4Si4	296





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5117

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	3	J
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	97	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5117

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	9	J
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	18	
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SL0

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5117

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
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9.				
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26.				
27.				
28.				
29.				
30.				

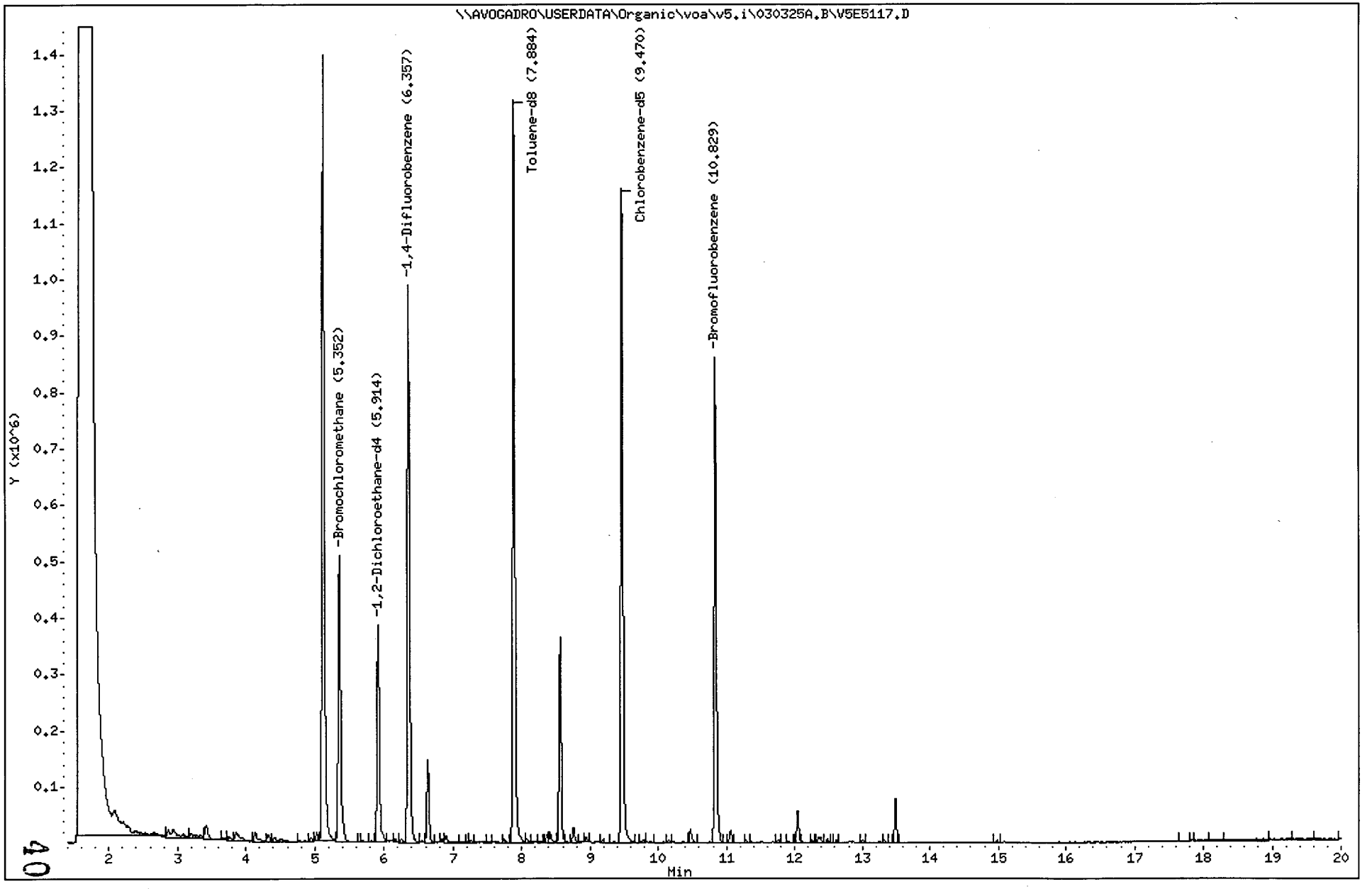
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D
Date : 25-MAR-2003 22:18
Client ID: YOSL0
Sample Info: EPA,B0443-03B,YOSL0,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5117.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D
Lab Smp Id: B0443-03B Client Smp ID: Y0SL0
Inj Date : 25-MAR-2003 22:18
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-03B,Y0SL0,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.700	Weight of sample (g)
M	8.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
3 Vinyl Chloride	62	2.102	2.109	(0.393)	15290	2.13221	2(a)
9 Acetone	43	3.422	3.419	(0.639)	61566	21.0388	20
11 Methyl Acetate	43	3.757	3.764	(0.702)	14022	2.79038	3(a)
12 Methylene Chloride	84	3.865	3.872	(0.722)	21518	2.26689	2(a)
17 cis-1,2-Dichloroethene	96	5.116	5.123	(0.956)	783853	101.679	97
* 18 Bromochloromethane	128	5.352	5.359	(1.000)	174920	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.914	5.921	(1.105)	303248	58.0627	55
* 26 1,4-Difluorobenzene	114	6.357	6.354	(1.000)	1019805	50.0000	
27 Trichloroethene	130	6.633	6.630	(1.043)	57171	9.11562	9(a)
$ 33 Toluene-d8	98	7.884	7.891	(0.833)	1132450	50.3081	48
37 Tetrachloroethene	164	8.563	8.561	(0.904)	107163	18.7299	18
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	895148	50.0000	
$ 50 Bromofluorobenzene	95	10.829	10.826	(1.144)	419283	46.7200	45

SB
4/3/03

Data File: V5E5117.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D
Lab Smp Id: B0443-03B Client Smp ID: Y0SL0
Inj Date : 25-MAR-2003 22:18
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-03B,Y0SL0,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

Client ID: YOSLO

Instrument: v5.i

Sample Info: EPA,B0443-03B,YOSLO,V5B0325C,,YOSK8

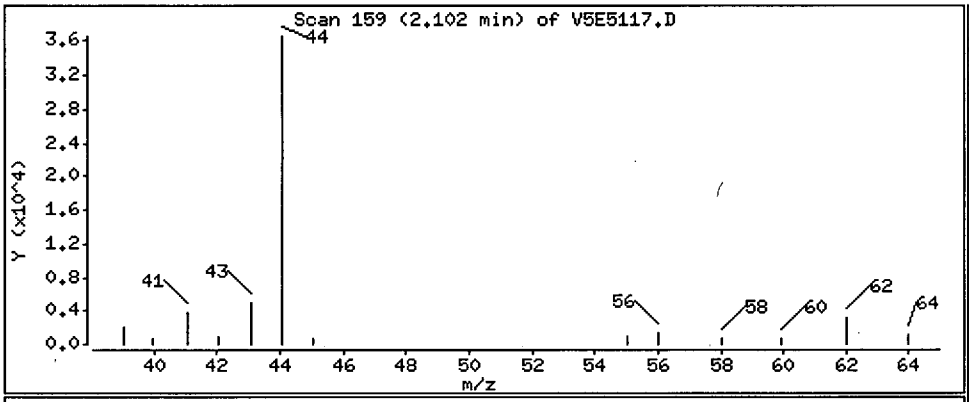
Operator: TRA

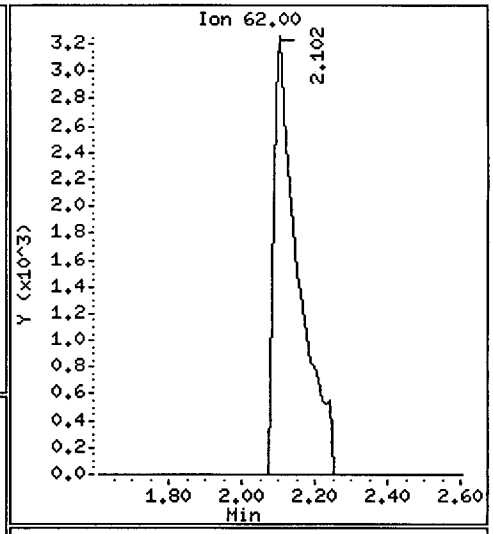
Column phase: DB-624

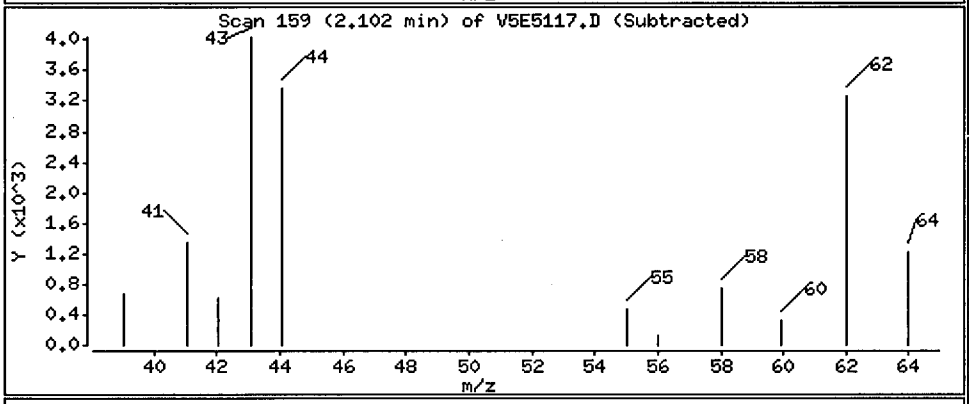
Column diameter: 0.25

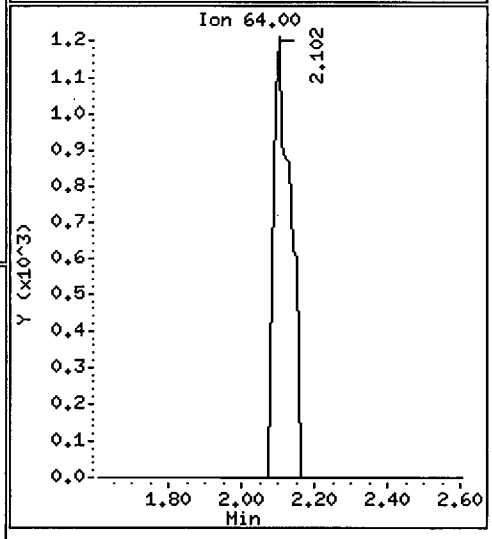
3 Vinyl Chloride

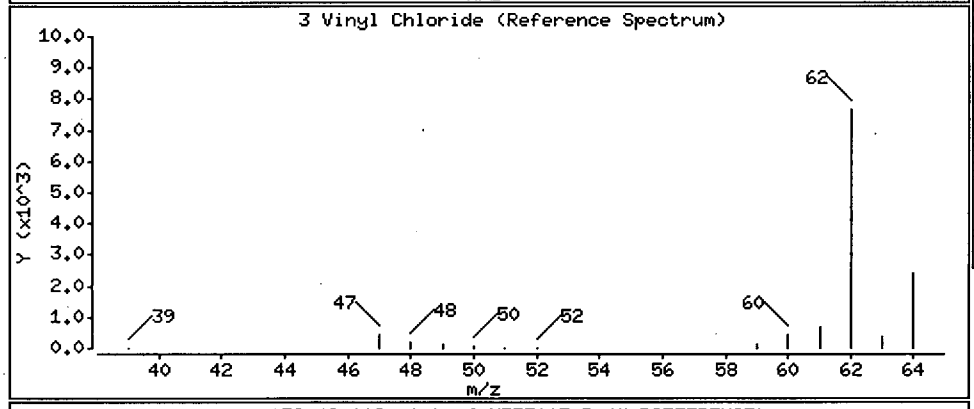
Concentration: 2 ug/Kg

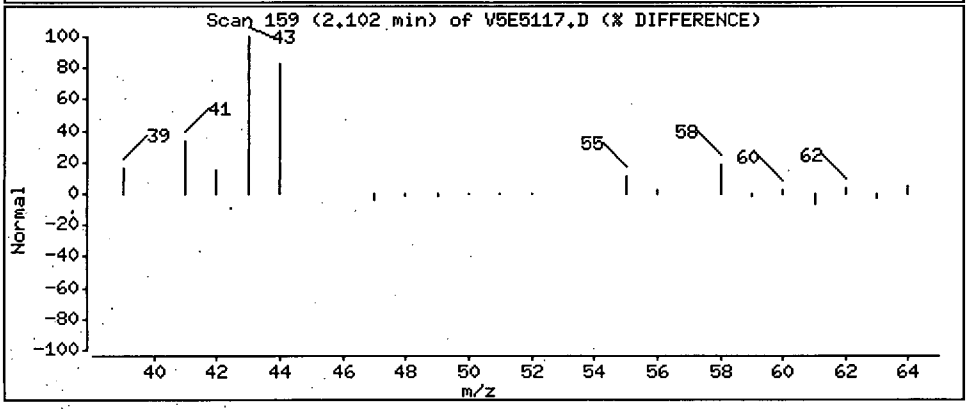












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

Client ID: YOSLO

Instrument: v5.i

Sample Info: EPA,B0443-03B,YOSLO,V5B0325C,,YOSK8

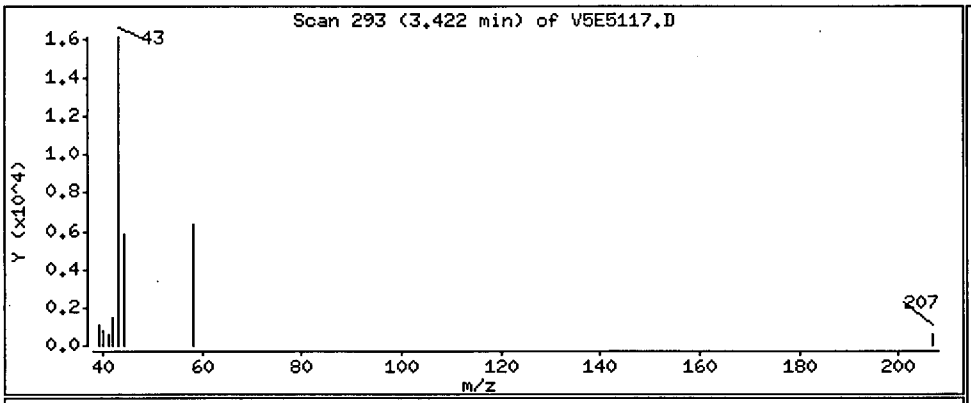
Operator: TRA

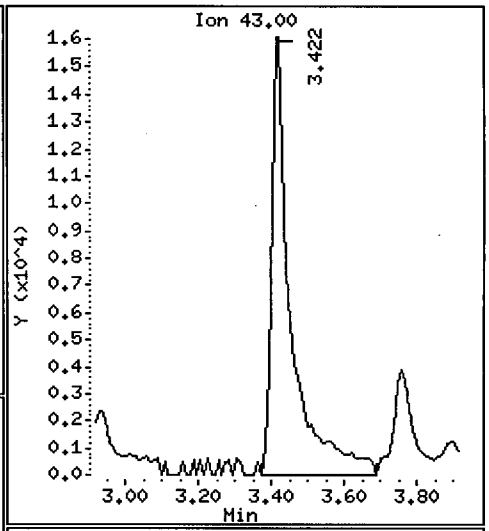
Column phase: DB-624

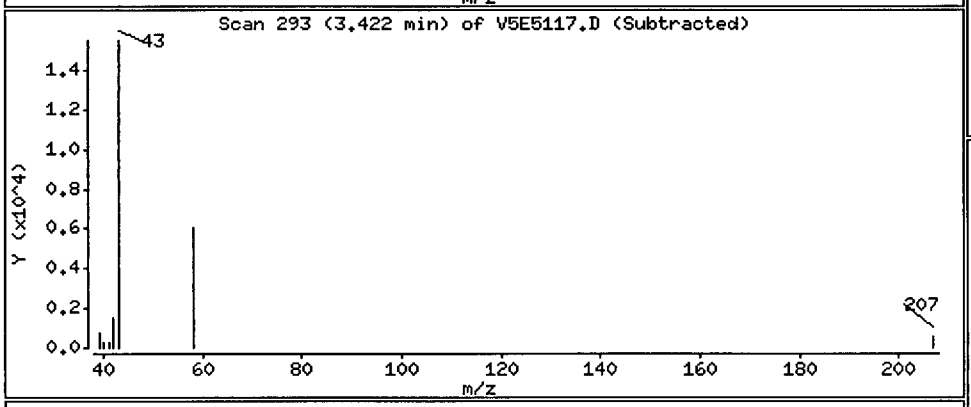
Column diameter: 0.25

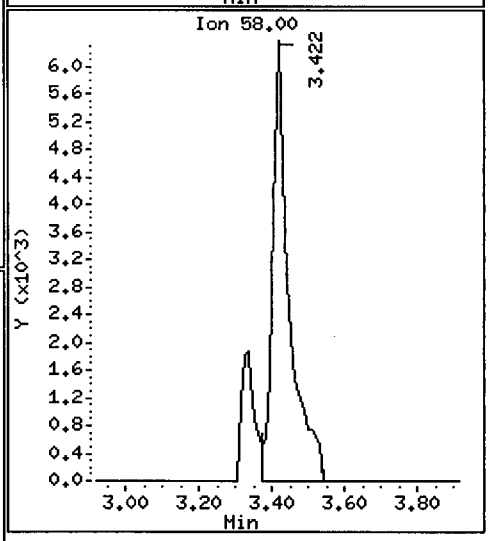
9 Acetone

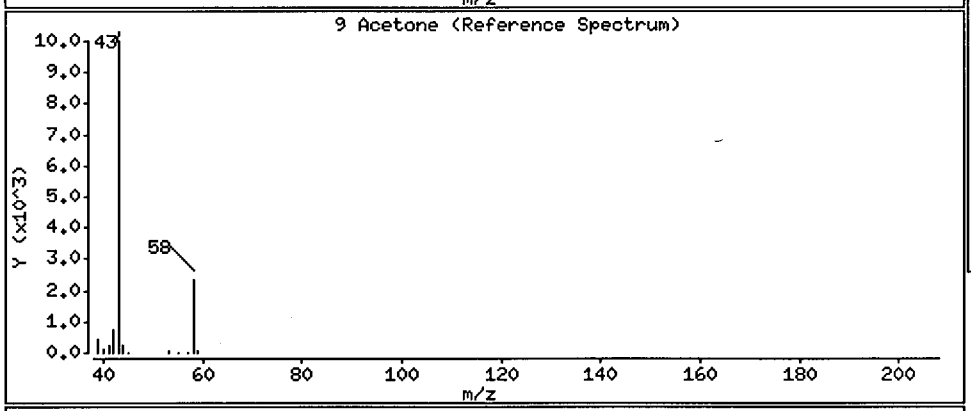
Concentration: 20 ug/Kg

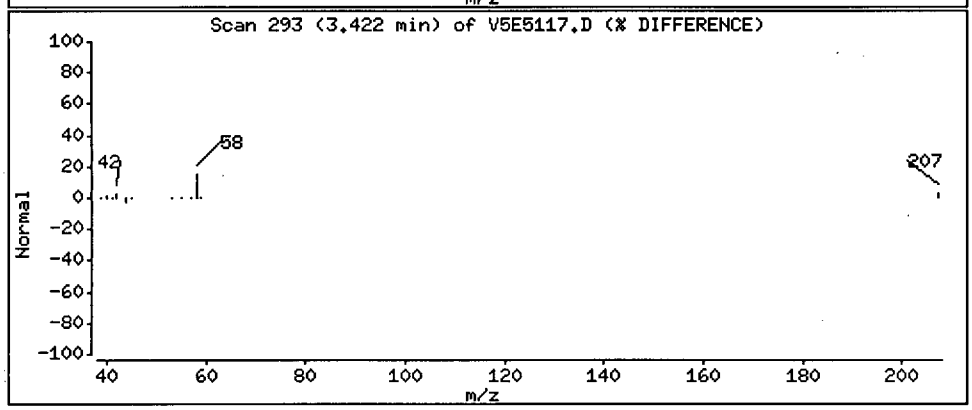












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

Client ID: YOSLO

Instrument: v5.i

Sample Info: EPA,B0443-03B,YOSLO,V5B0325C,,YOSK8

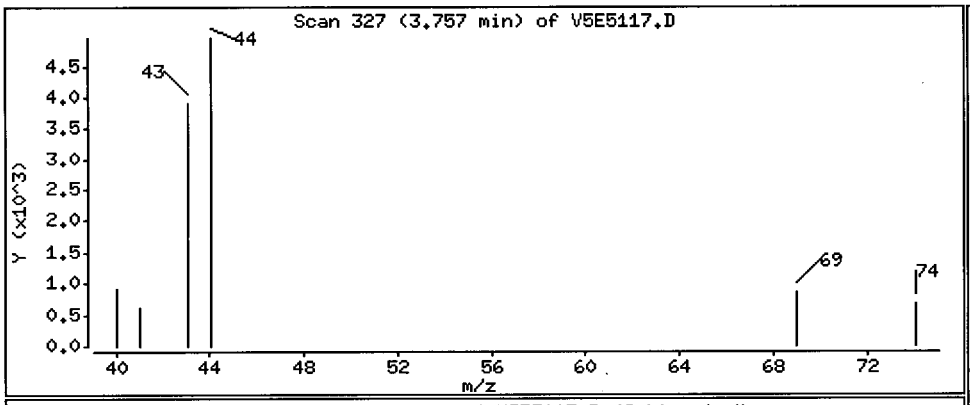
Operator: TRA

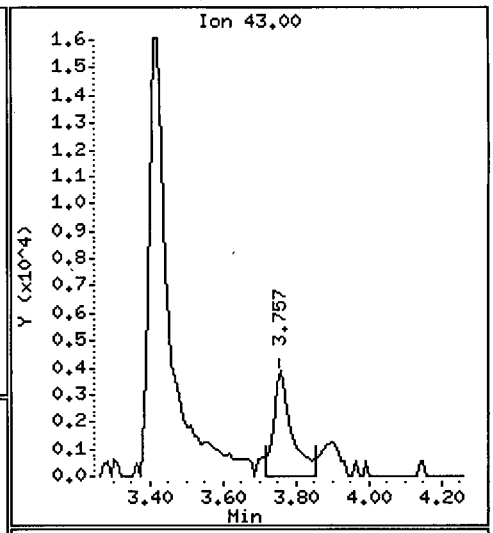
Column phase: DB-624

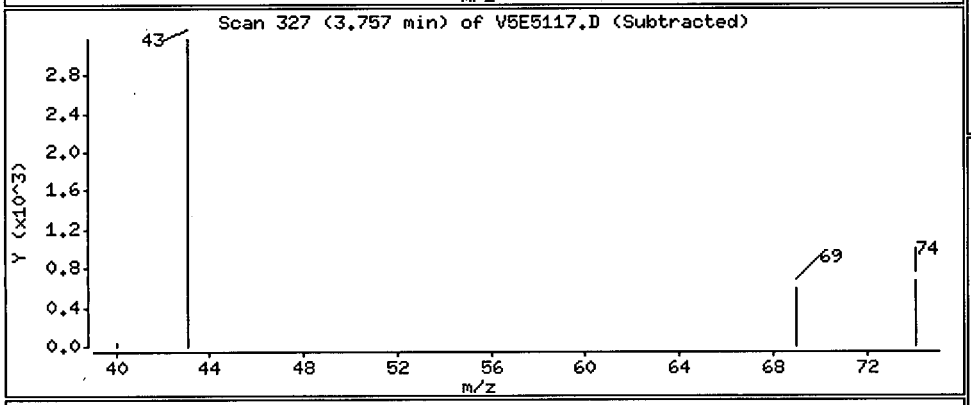
Column diameter: 0.25

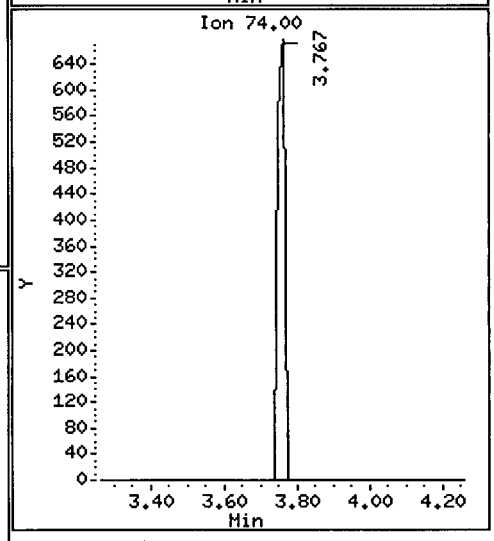
11 Methyl Acetate

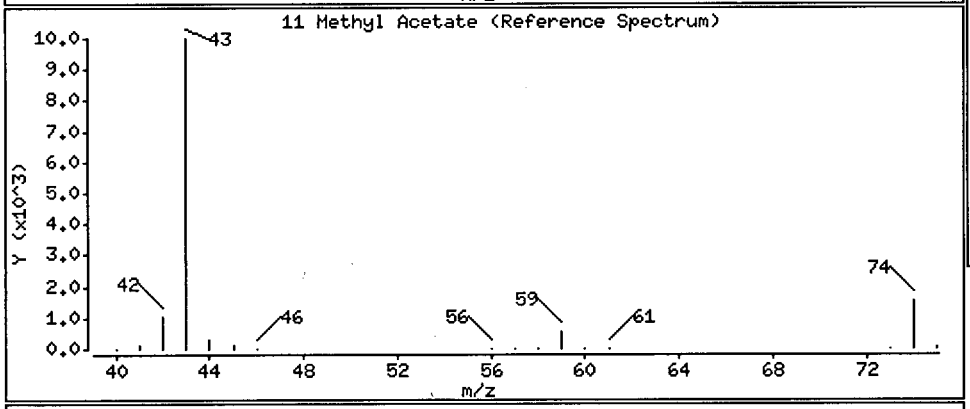
Concentration: 3 ug/Kg

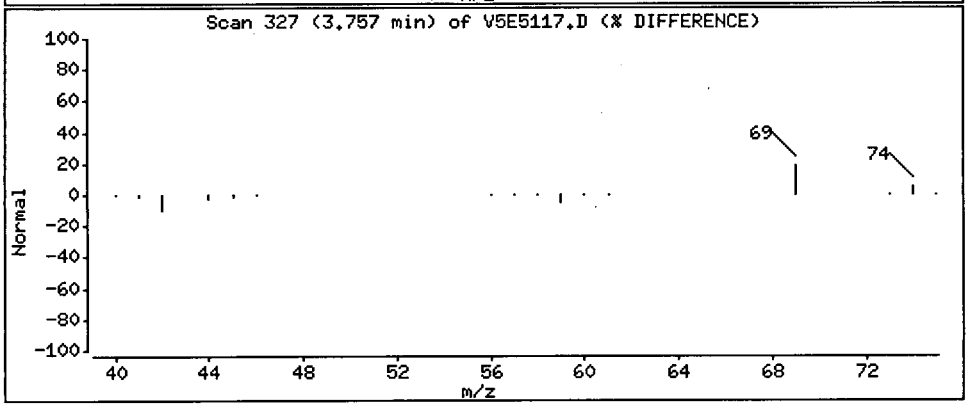












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

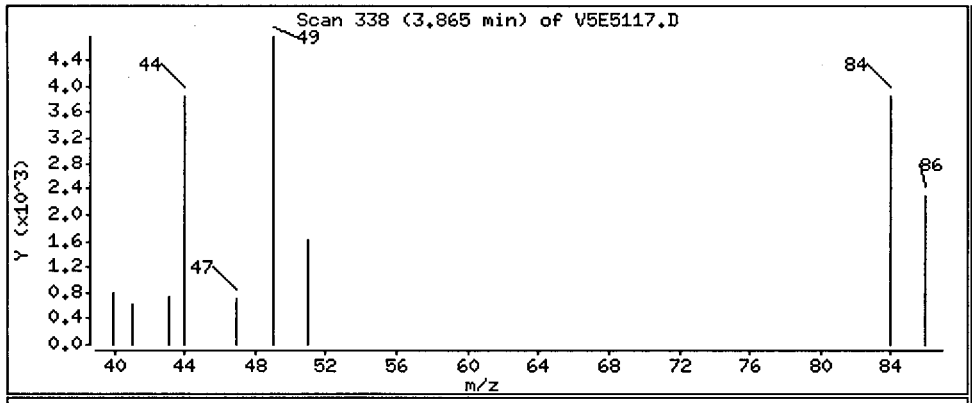
Client ID: Y0SL0 Instrument: v5.i

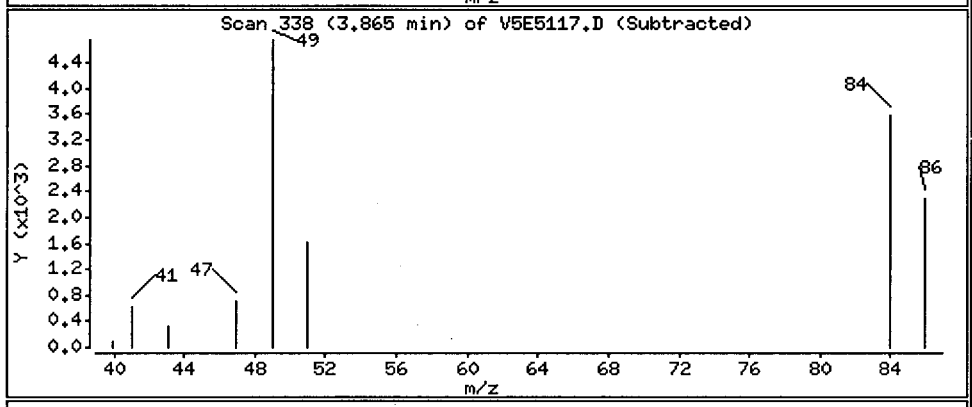
Sample Info: EPA,B0443-03B,Y0SL0,V5B0325C,,Y0SK8

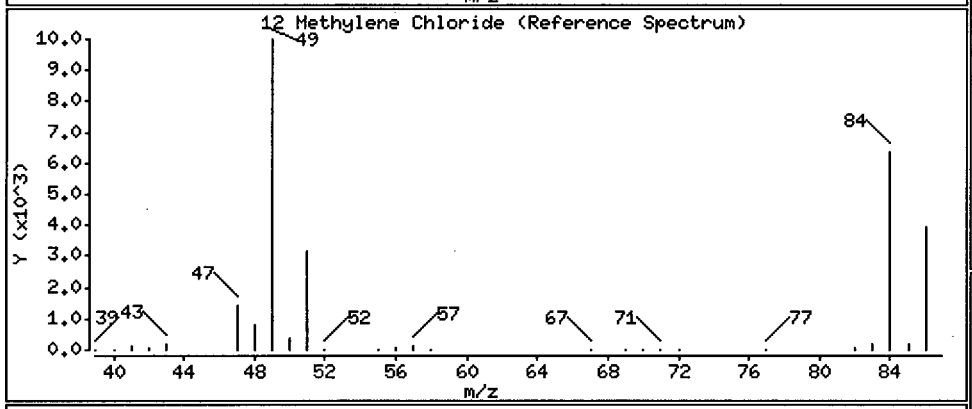
Operator: TRA

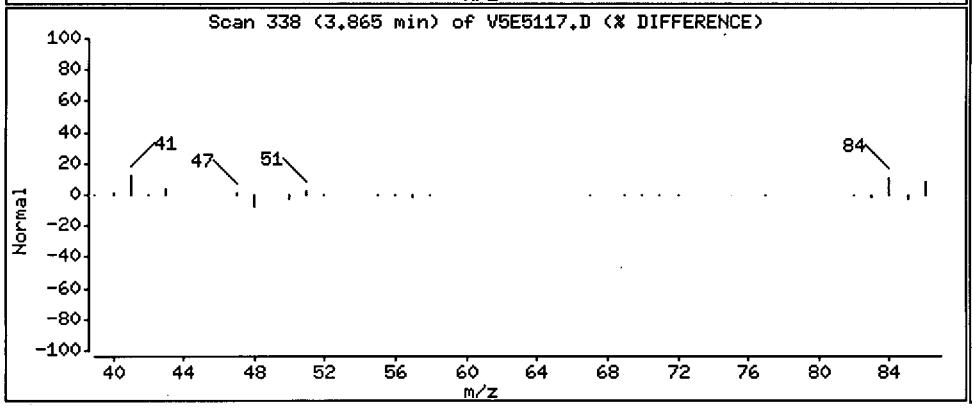
Column phase: DB-624 Column diameter: 0.25

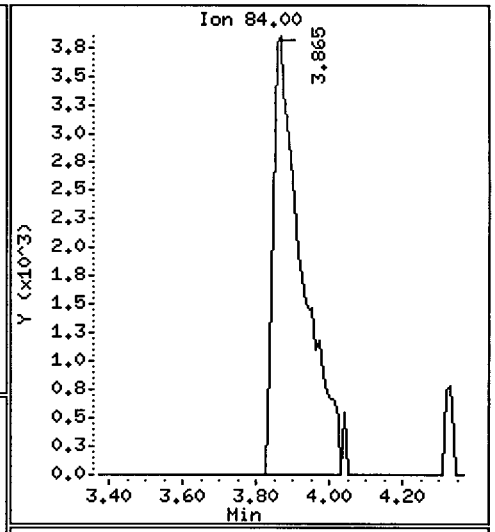
12 Methylene Chloride Concentration: 2 ug/Kg

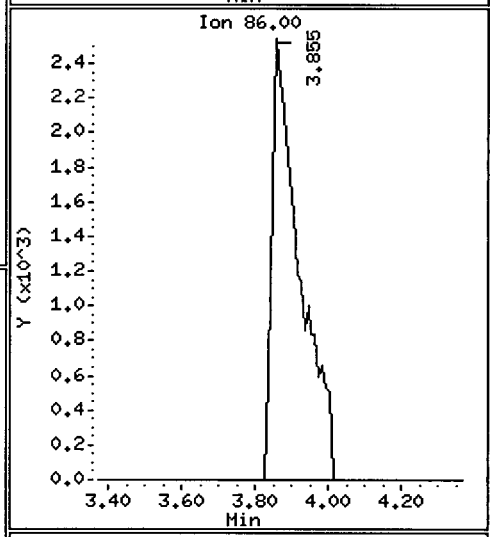


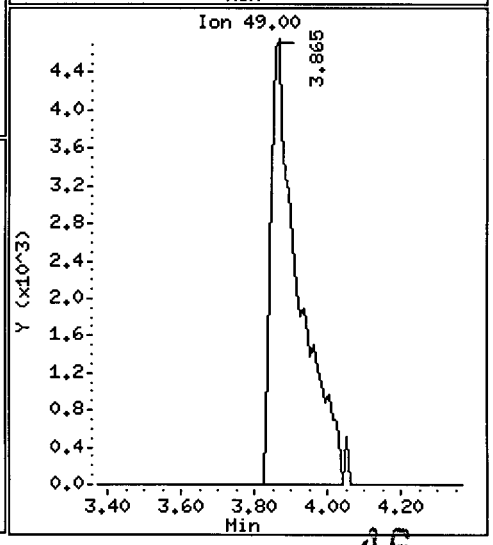












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

Client ID: YOSLO

Instrument: v5.i

Sample Info: EPA,B0443-03B,YOSLO,V5B0325C,,YOSK8

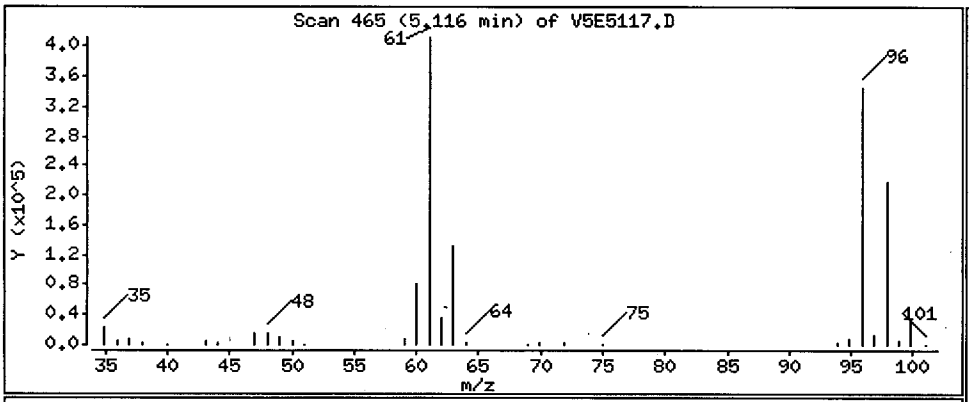
Operator: TRA

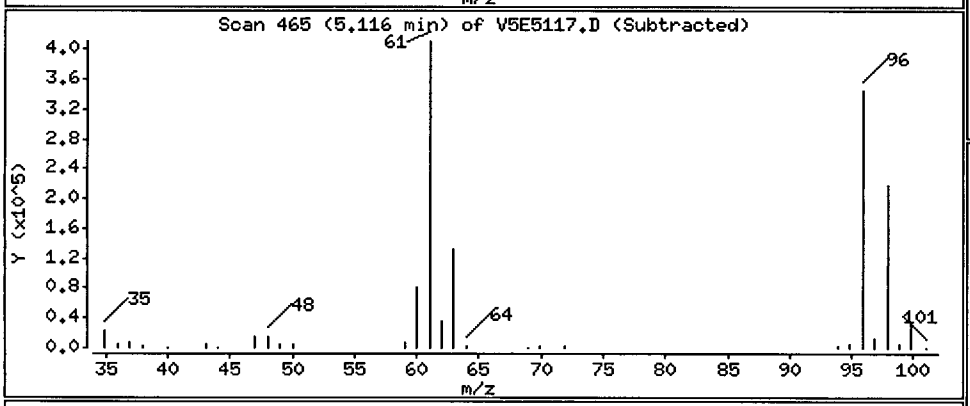
Column phase: DB-624

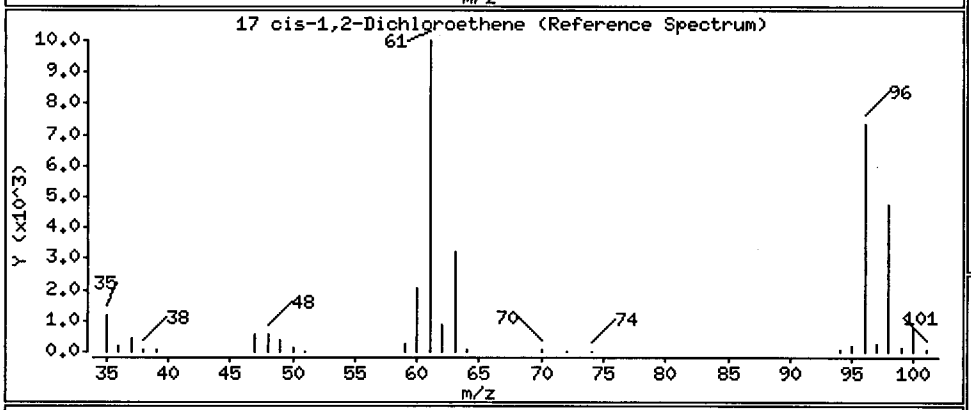
Column diameter: 0.25

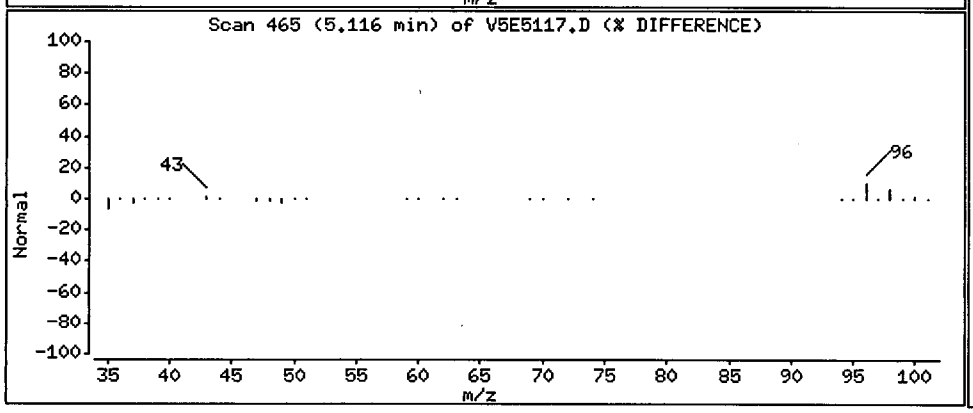
17 cis-1,2-Dichloroethene

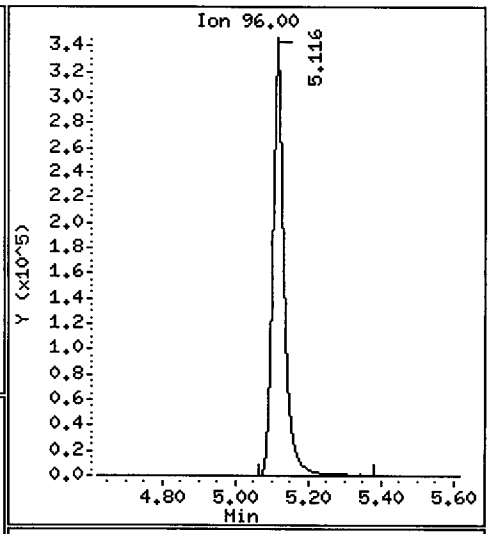
Concentration: 97 ug/Kg

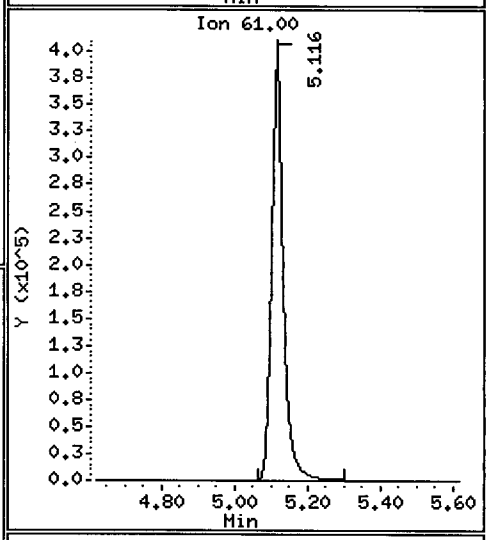


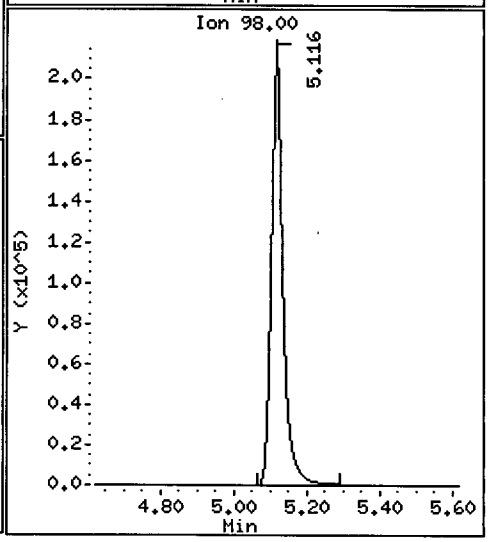












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

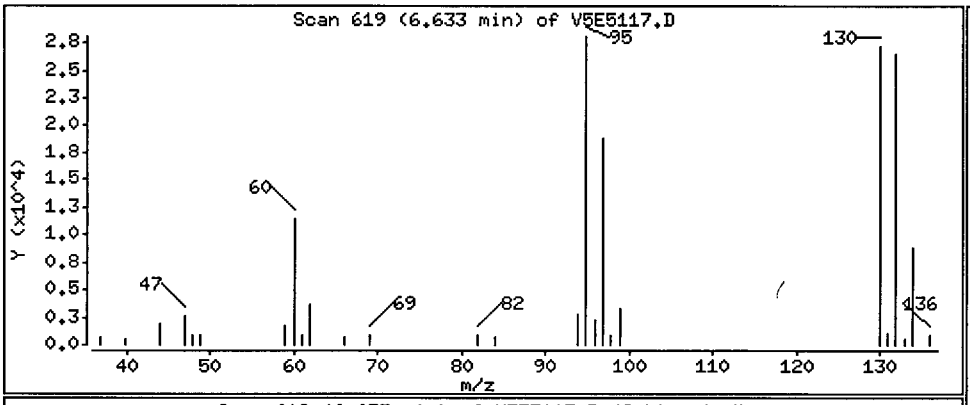
Client ID: YOSL0 Instrument: v5.i

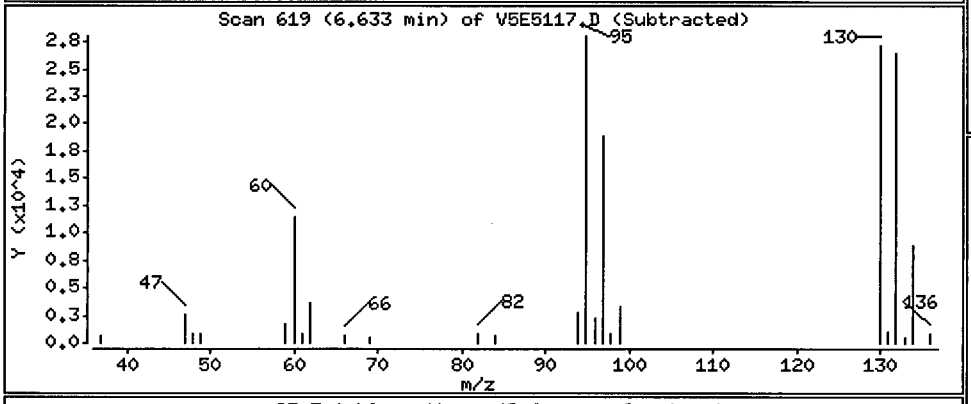
Sample Info: EPA,B0443-03B,YOSL0,V5B0325C,,YOSK8

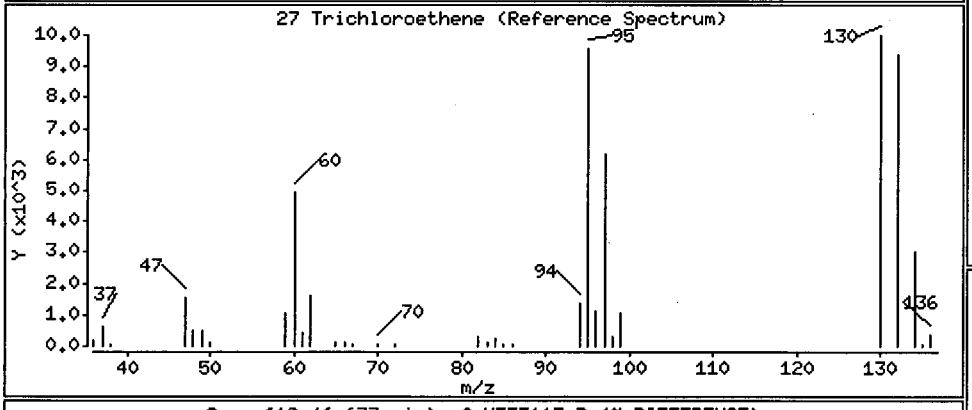
Operator: TRA

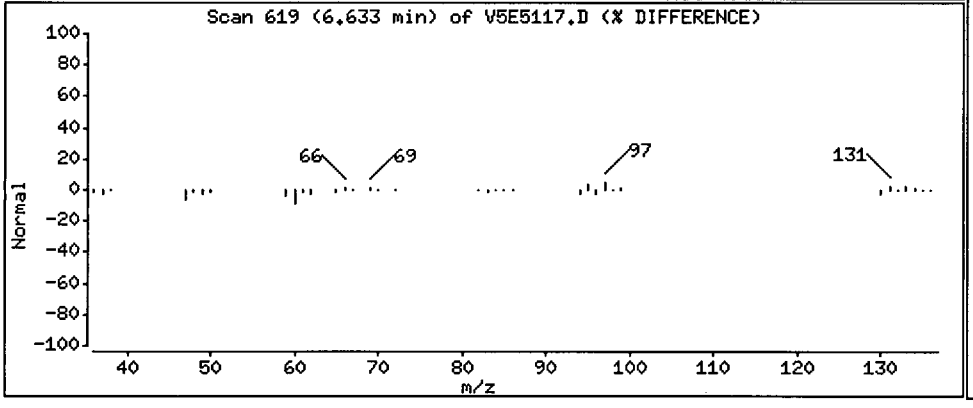
Column phase: DB-624 Column diameter: 0.25

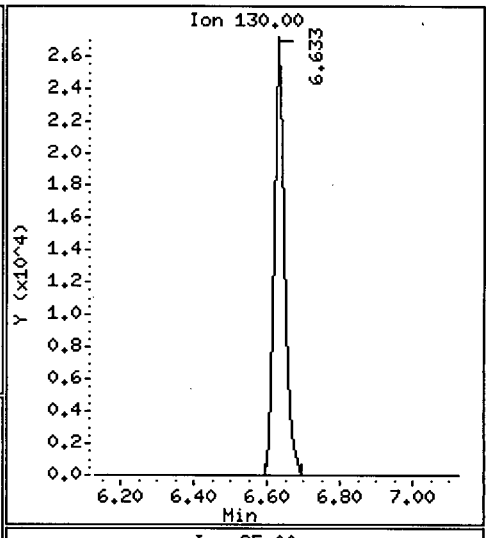
27 Trichloroethene Concentration: 9 ug/Kg

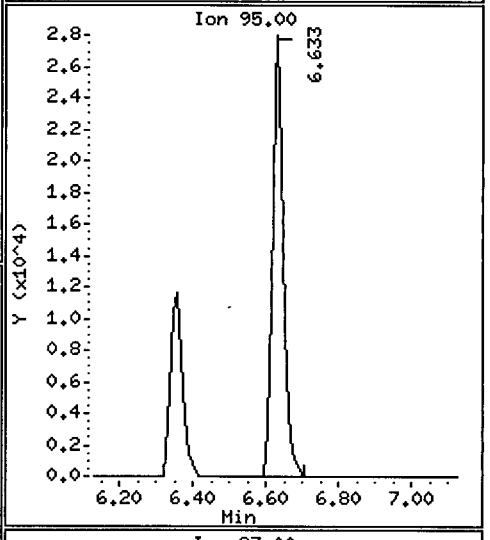


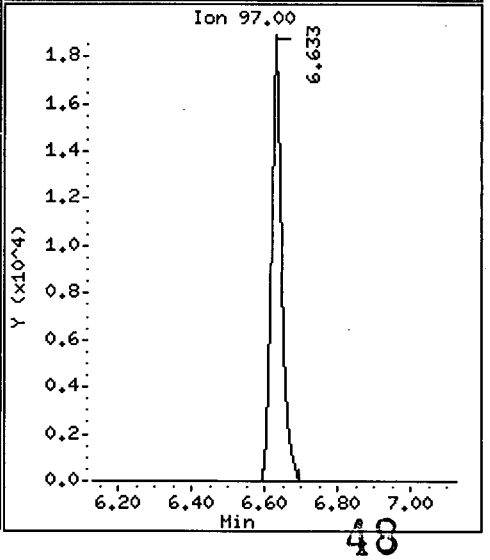












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5117.D

Date : 25-MAR-2003 22:18

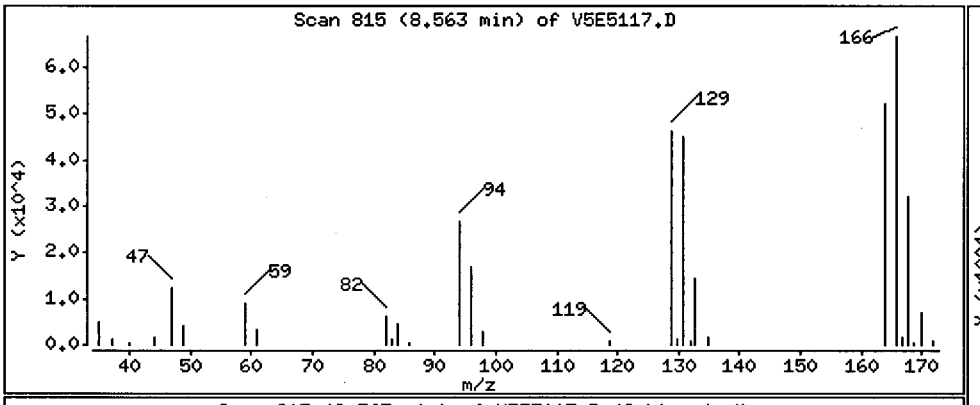
Client ID: YOSL0 Instrument: v5.i

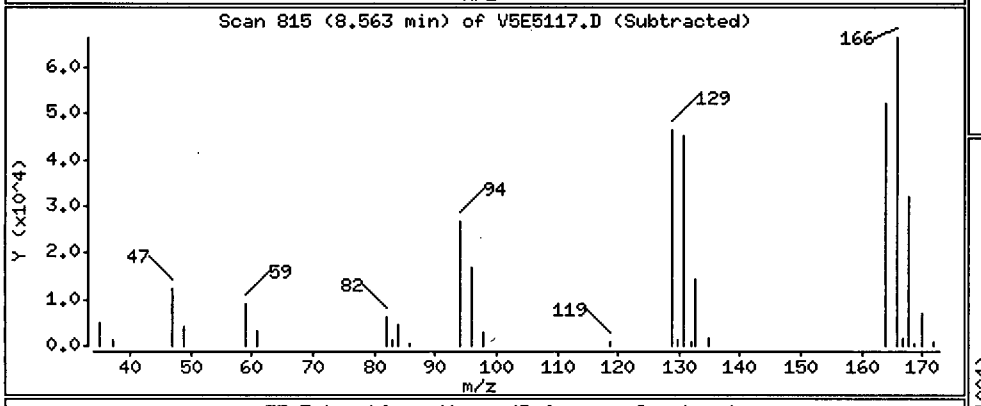
Sample Info: EPA,B0443-03B,YOSL0,V5B0325C,,YOSK8

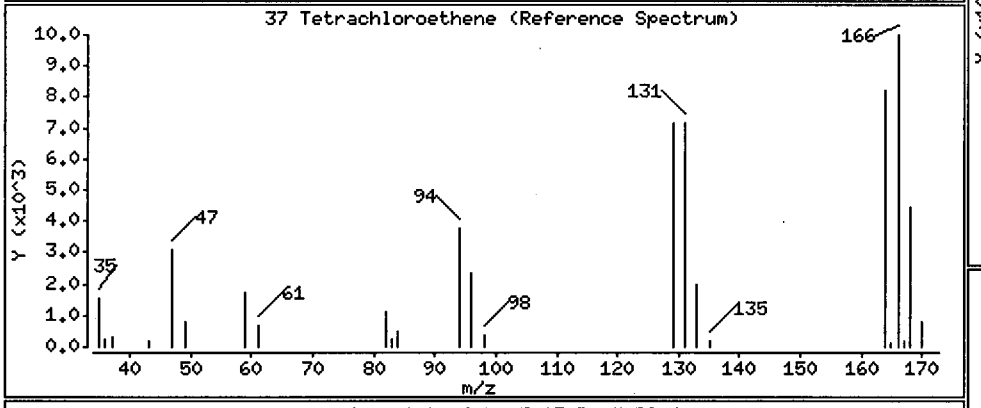
Operator: TRA

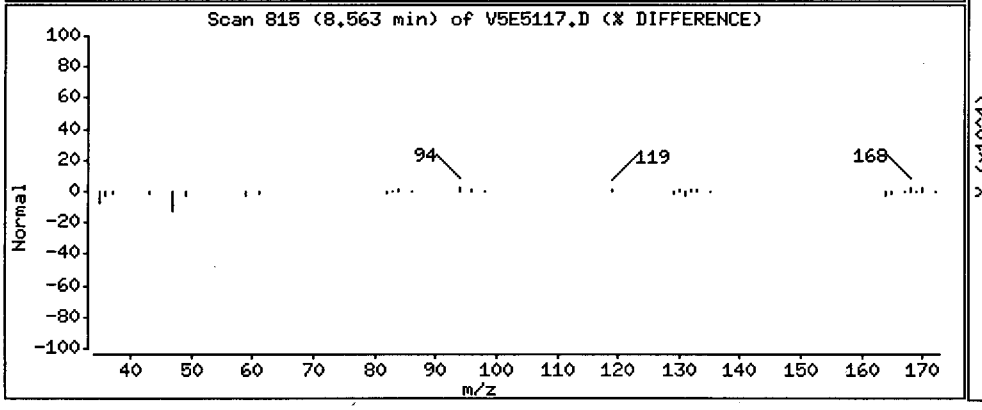
Column phase: DB-624 Column diameter: 0.25

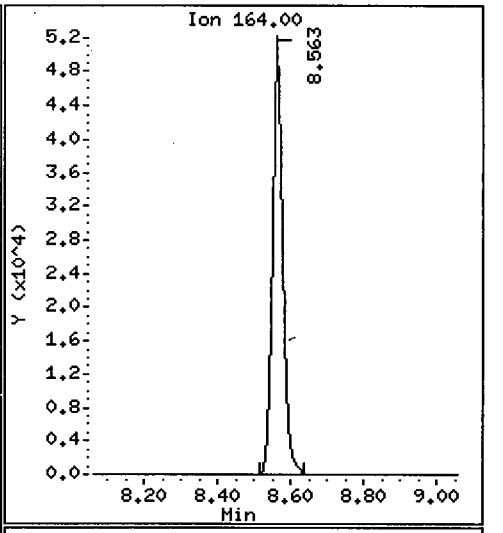
37 Tetrachloroethene Concentration: 18 ug/Kg

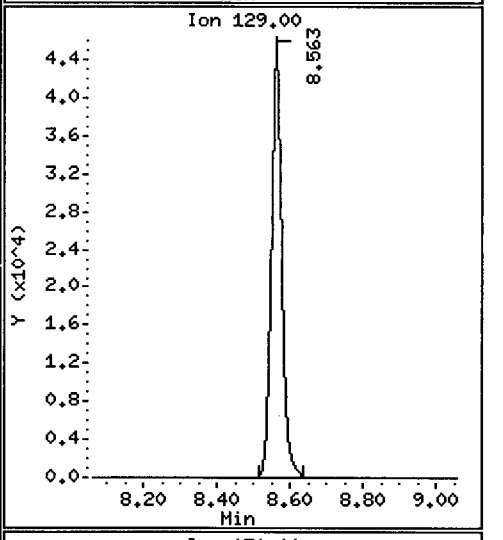


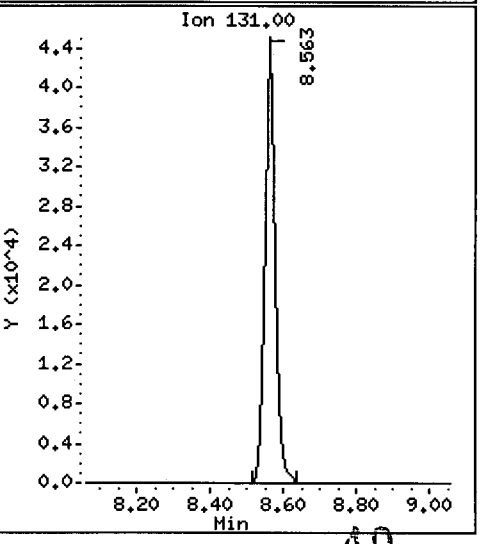












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-04B

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V5E5123

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 17 Date Analyzed: 03/26/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	20	
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	11	
156-60-5	trans-1,2-Dichloroethene	11	
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	930	E
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	6	J
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-04B

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V5E5123

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 17 Date Analyzed: 03/26/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	84	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	190	
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SL1

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-04B

Sample wt/vol: 5.5 (g/mL) G Lab File ID: V5E5123

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 17 Date Analyzed: 03/26/03

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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24.				
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26.				
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28.				
29.				
30.				

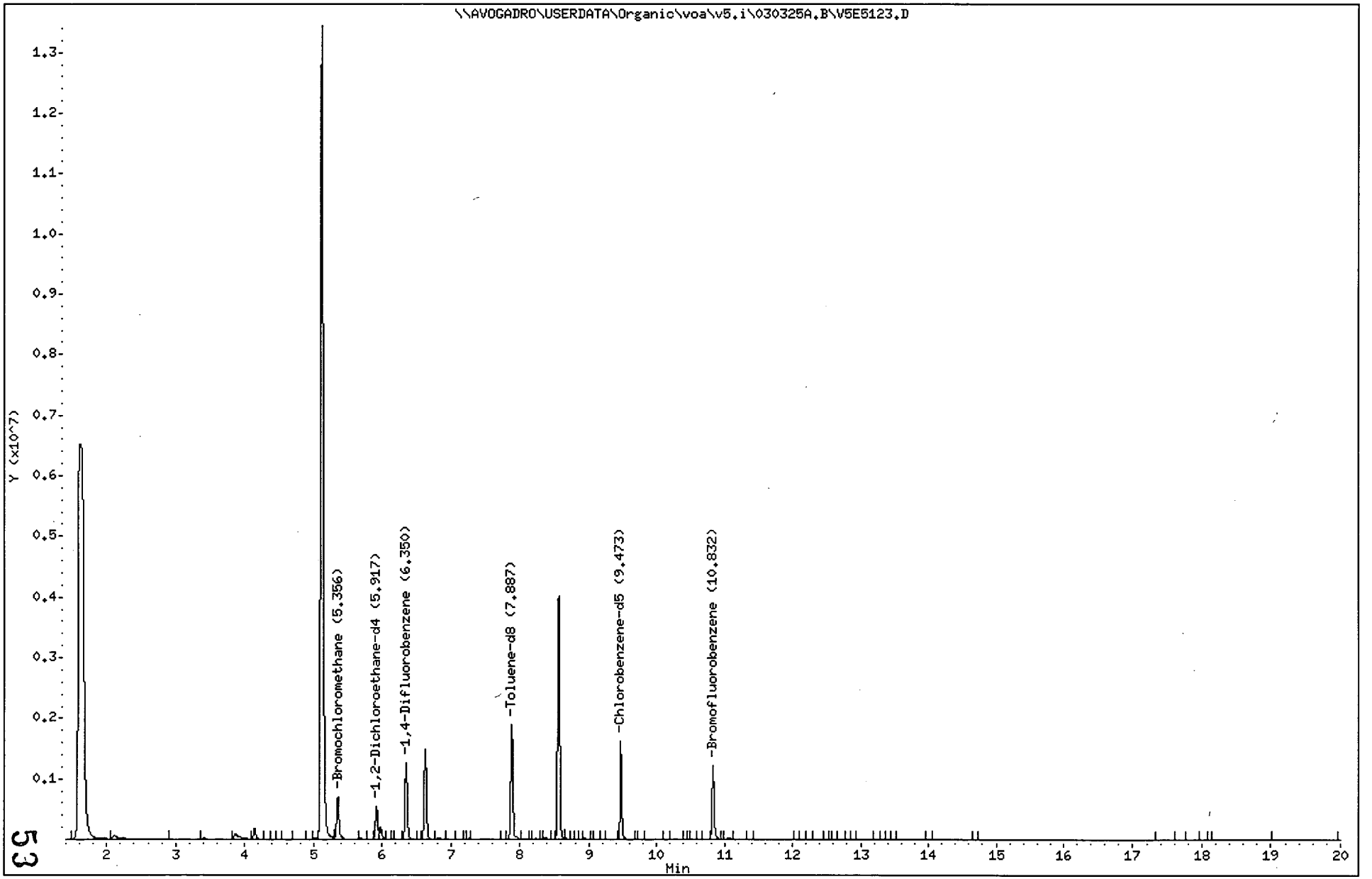
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D
Date : 26-MAR-2003 01:13
Client ID: YOSL1
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5123.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D
Lab Smp Id: B0443-04B Client Smp ID: Y0SL1
Inj Date : 26-MAR-2003 01:13
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-04B,Y0SL1,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D ✓
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub ✓
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.500	Weight of sample (g)
M	17.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
3 Vinyl Chloride	62	2.105	2.109	(0.393)	180097	18.7056	20
9 Acetone	43	3.425	3.419	(0.640)	17049	4.33931	5(a)
12 Methylene Chloride	84	3.858	3.872	(0.720)	127519	10.0056	11
13 trans-1,2-Dichloroethene	96	4.144	4.148	(0.774)	99764	9.89496	11
17 cis-1,2-Dichloroethene	96	5.119	5.123	(0.956)	8769526	847.252	930(A)
* 18 Bromochloromethane	128	5.356	5.359	(1.000)	234854	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.917	5.921	(1.105)	392787	56.0142	61
25 Benzene	78	5.986	5.990	(0.943)	201844	5.74840	6(a)
* 26 1,4-Difluorobenzene	114	6.350	6.354	(1.000)	1307729	50.0000	
27 Trichloroethene	130	6.636	6.630	(1.045)	615538	76.5358	84
$ 33 Toluene-d8	98	7.887	7.891	(0.833)	1527989	52.4646	57
37 Tetrachloroethene	164	8.566	8.561	(0.904)	1254136	169.419	190
* 42 Chlorobenzene-d5	117	9.473	9.477	(1.000)	1158157	50.0000	
$ 50 Bromofluorobenzene	95	10.832	10.826	(1.143)	585005	50.3828	55

SD
4/3/03 KL

Data File: V5E5123.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D
Lab Smp Id: B0443-04B Client Smp ID: Y0SL1
Inj Date : 26-MAR-2003 01:13
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-04B,Y0SL1,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 47
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

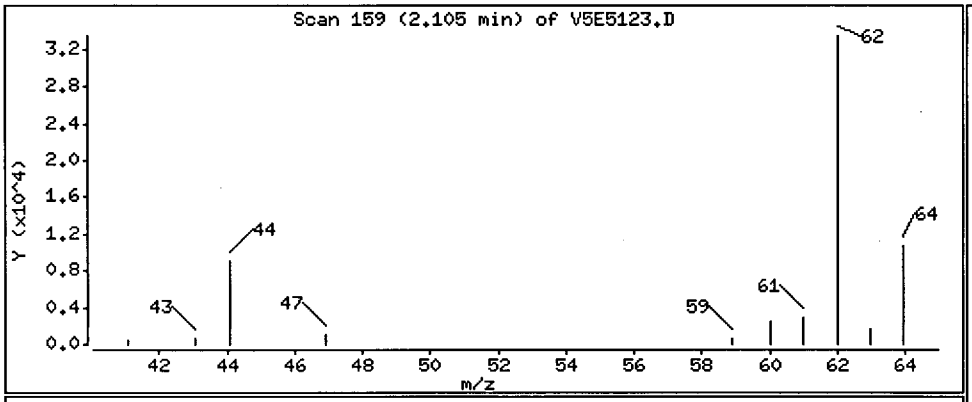
Client ID: YOSL1 Instrument: v5.i

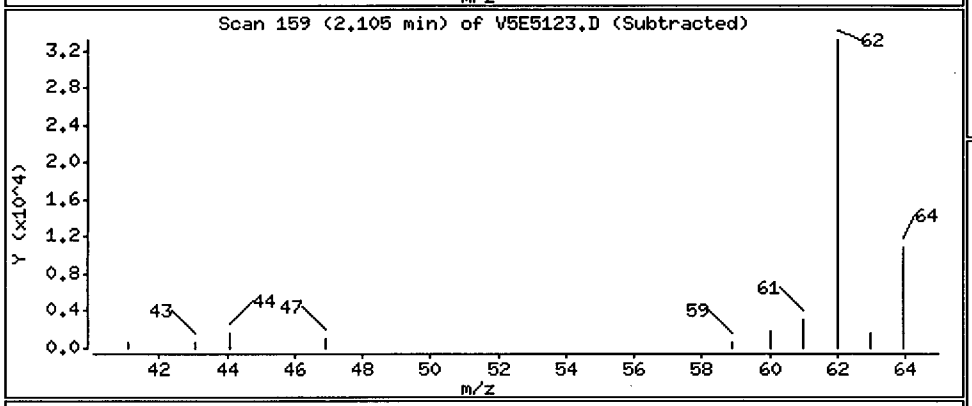
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

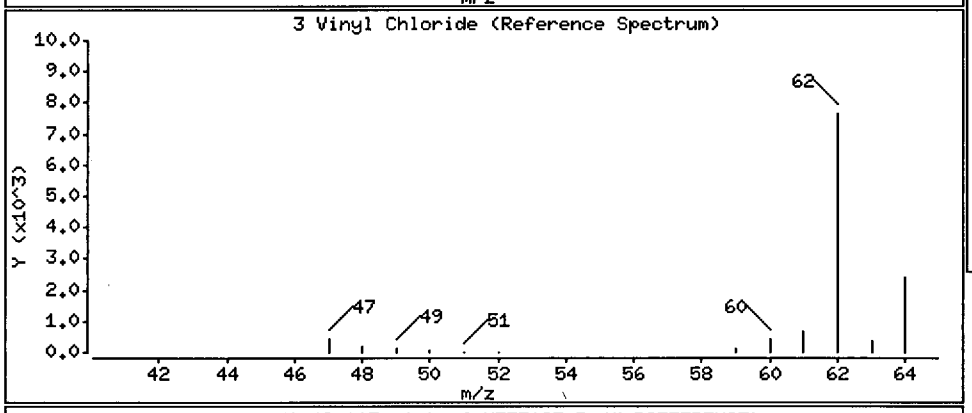
Operator: TRA

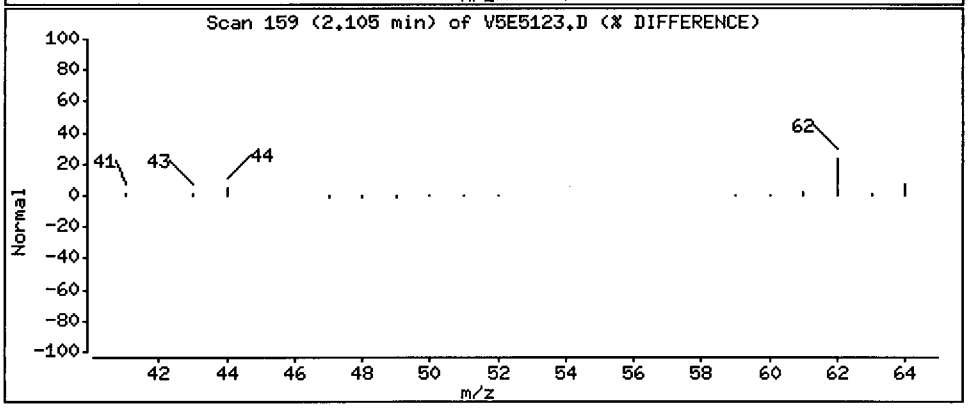
Column phase: DB-624 Column diameter: 0.25

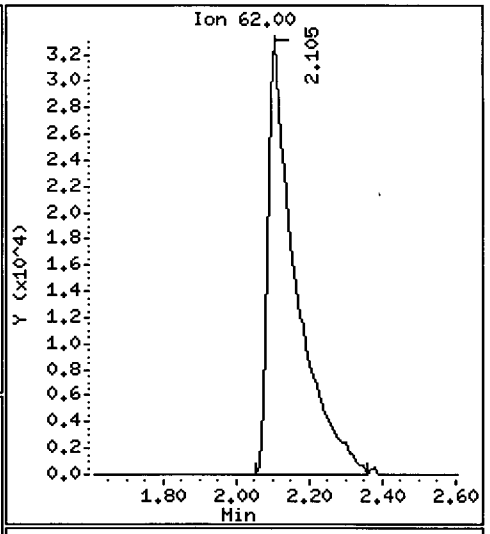
3 Vinyl Chloride Concentration: 20 ug/Kg

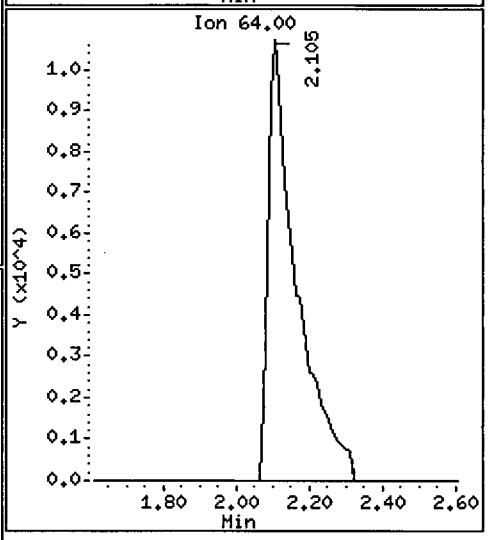












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Date : 26-MAR-2003 01:13

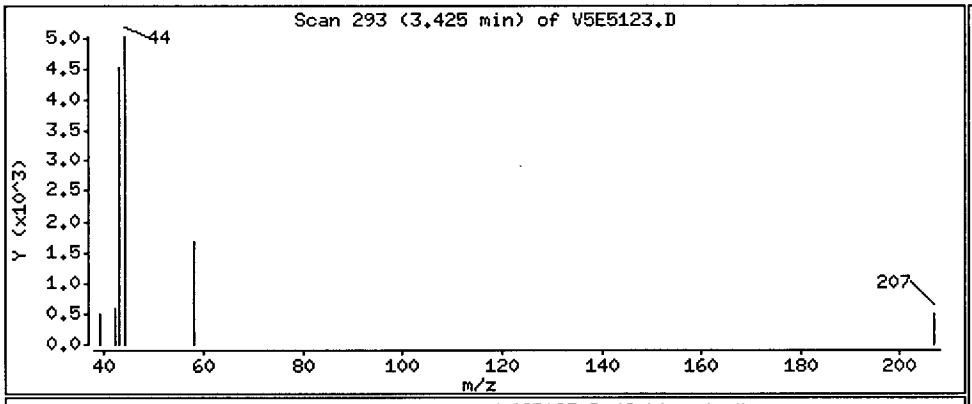
Client ID: YOSL1 Instrument: v5.i

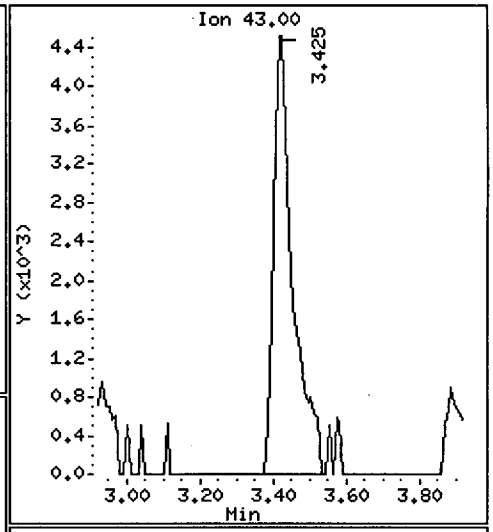
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

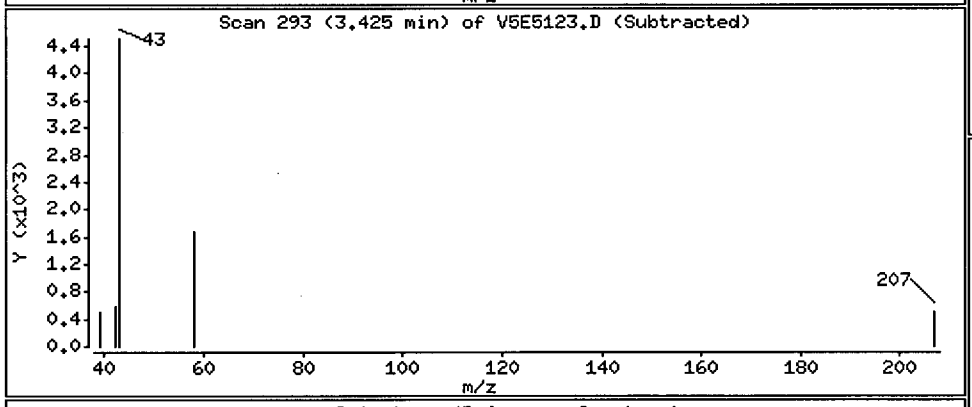
Operator: TRA

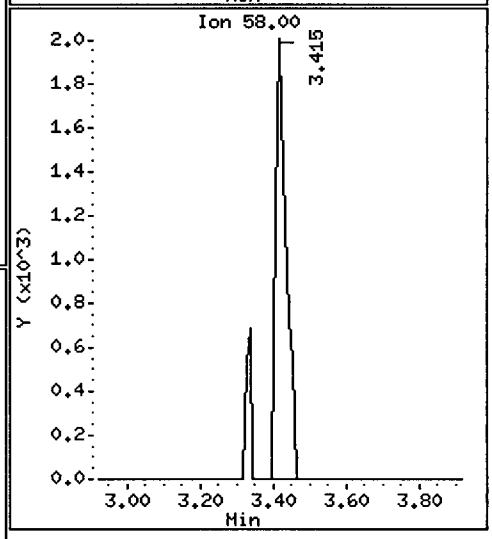
Column phase: DB-624 Column diameter: 0.25

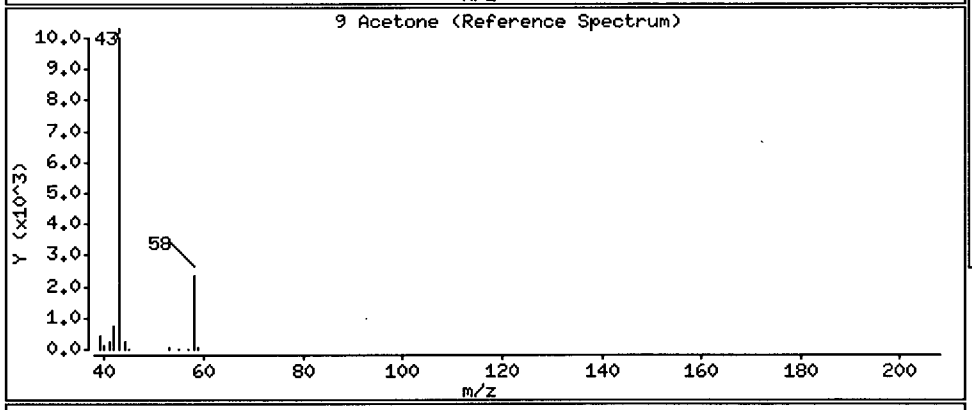
9 Acetone Concentration: 5 ug/Kg

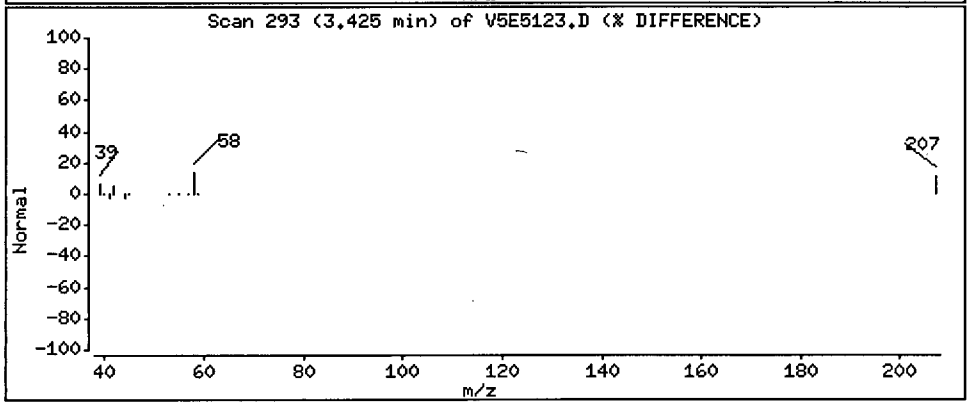












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

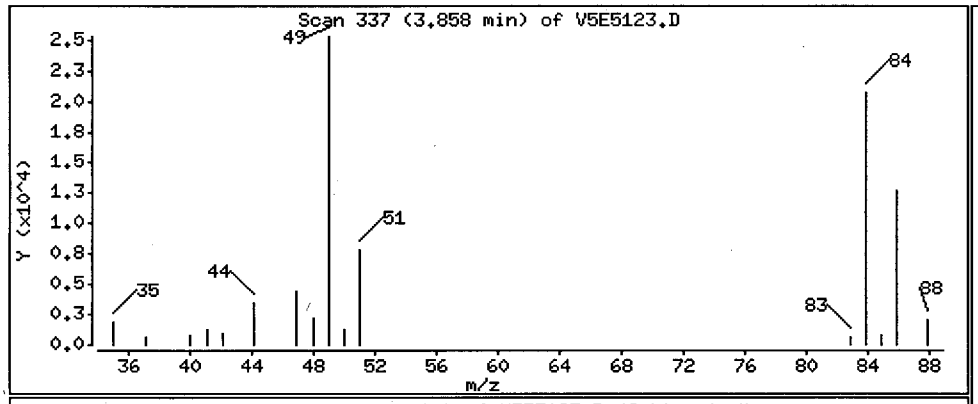
Client ID: YOSL1 Instrument: v5.i

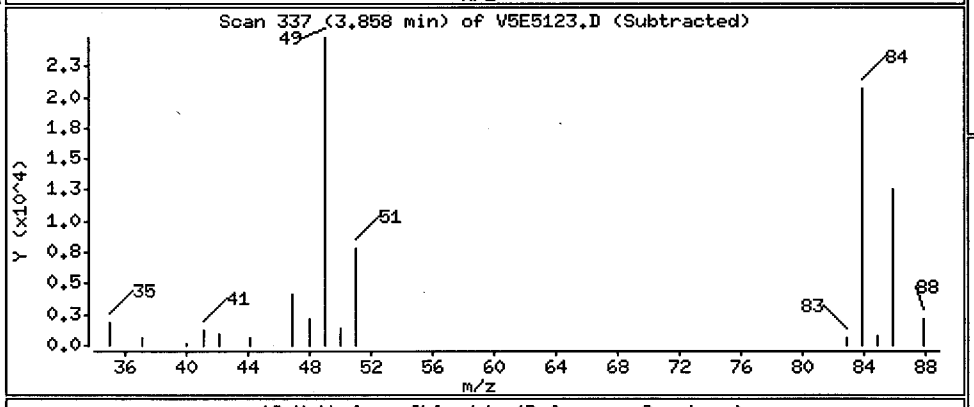
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

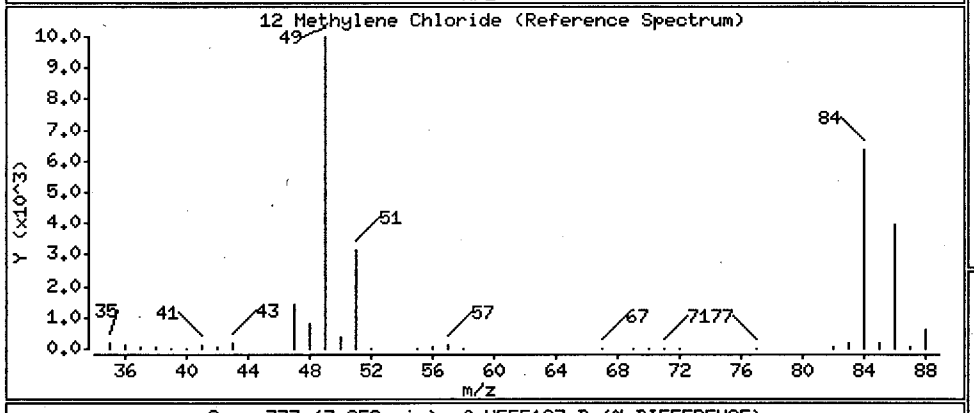
Operator: TRA

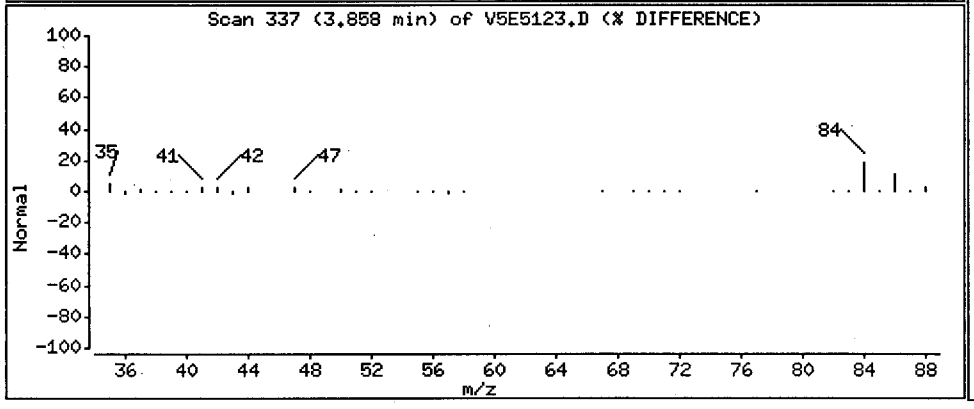
Column phase: DB-624 Column diameter: 0.25

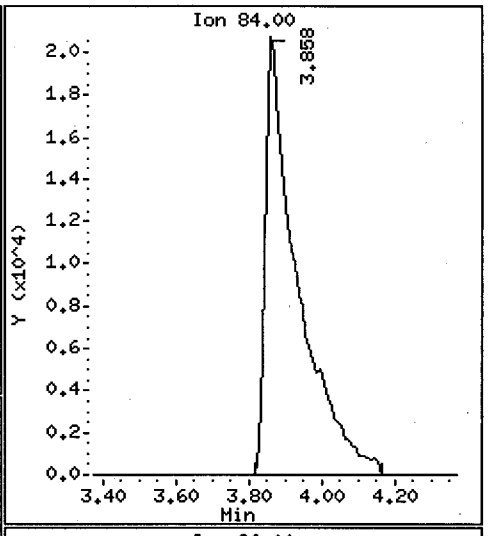
12 Methylene Chloride Concentration: 11 ug/Kg

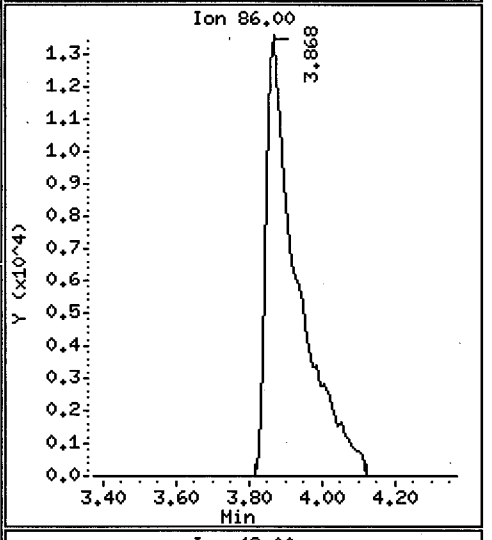


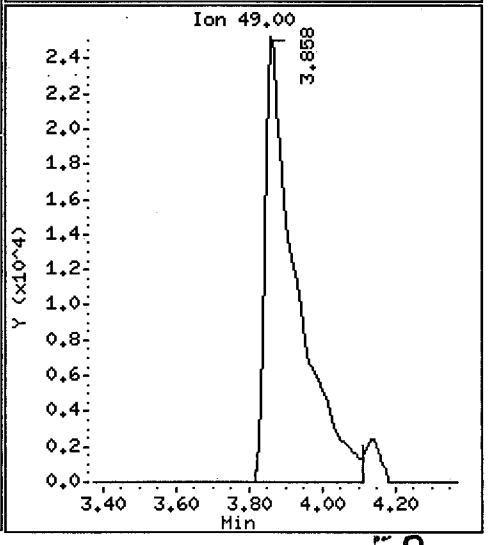












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

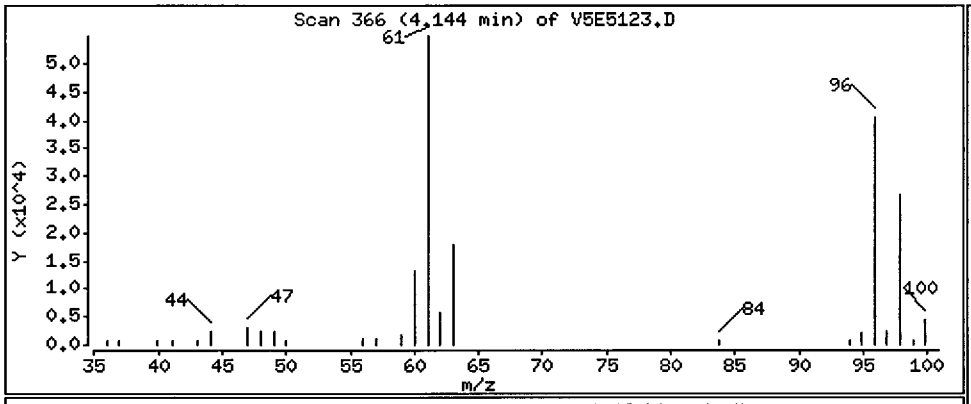
Client ID: YOSL1 Instrument: v5.i

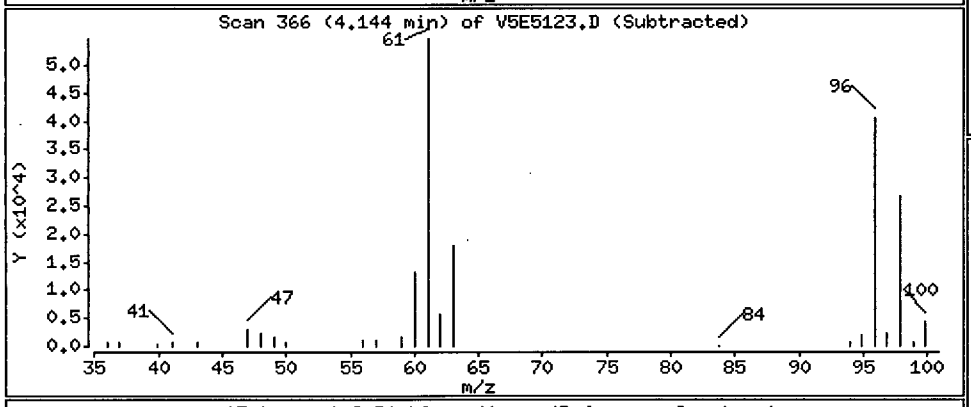
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

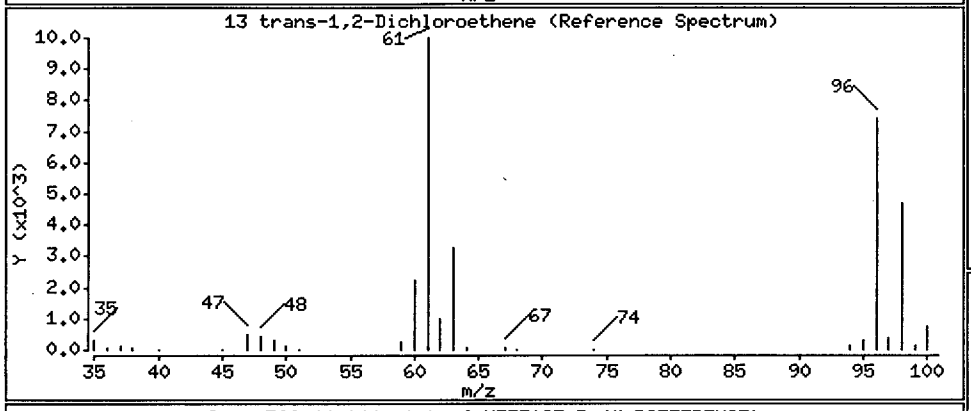
Operator: TRA

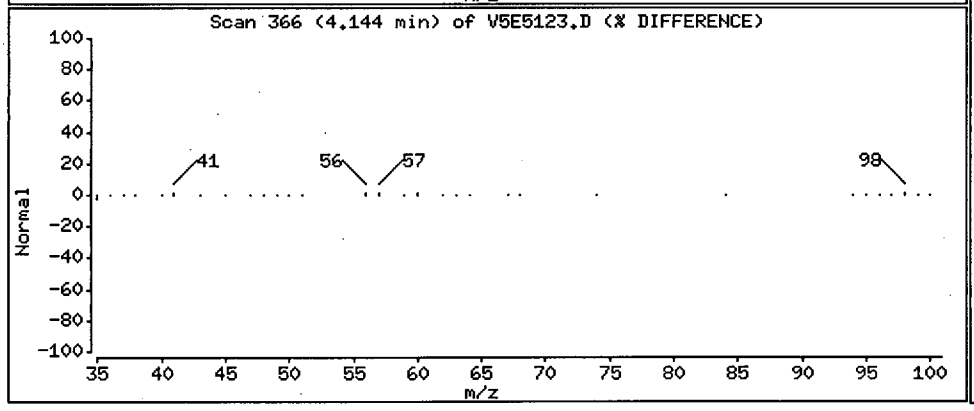
Column phase: DB-624 Column diameter: 0.25

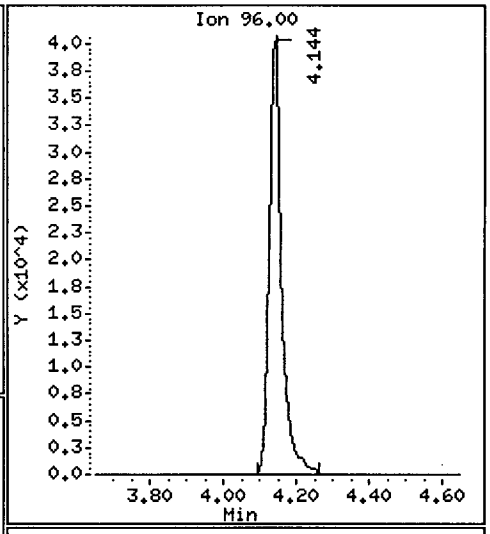
13 trans-1,2-Dichloroethene Concentration: 11 ug/Kg

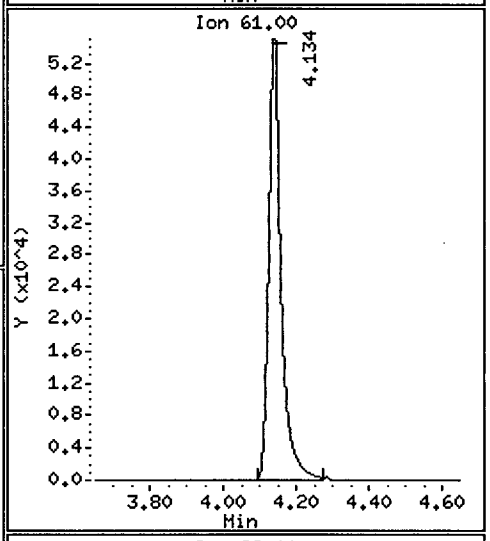


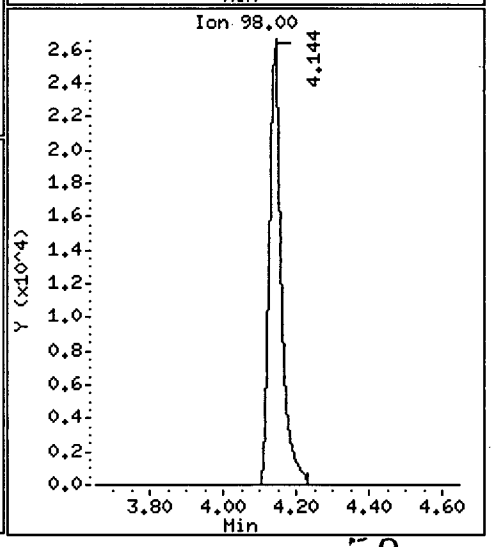












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

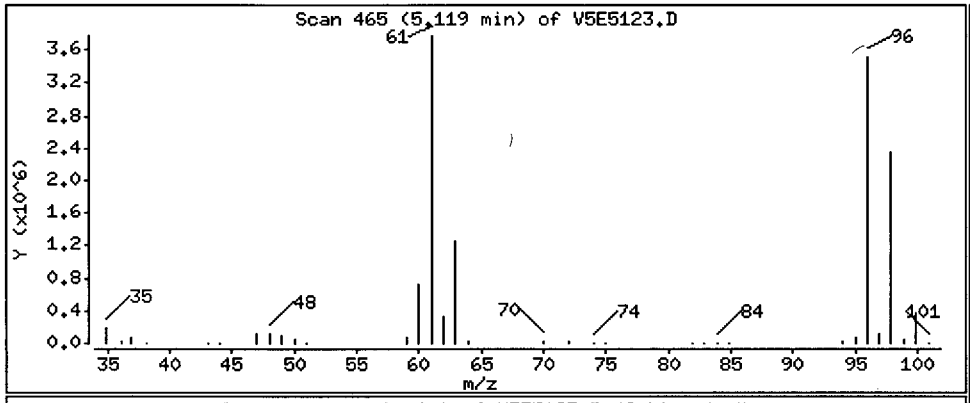
Client ID: YOSL1 Instrument: v5.i

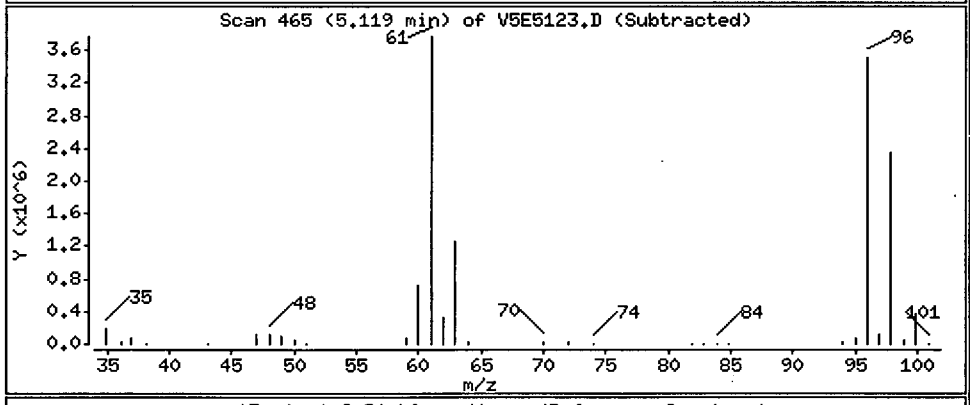
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

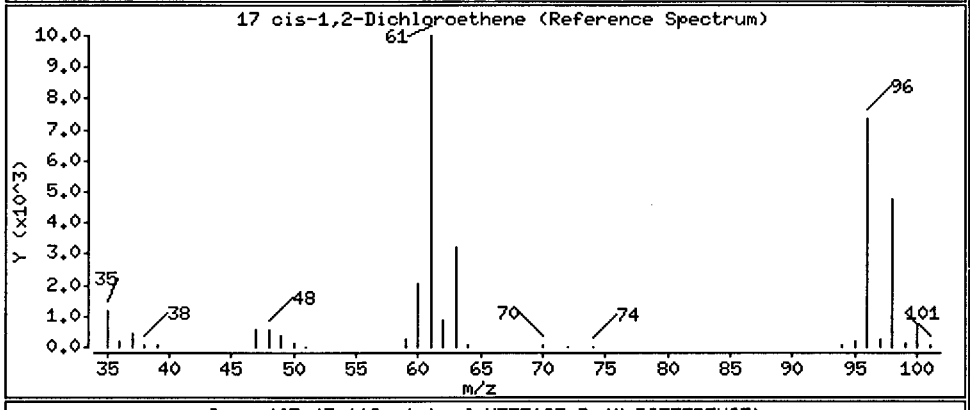
Operator: TRA

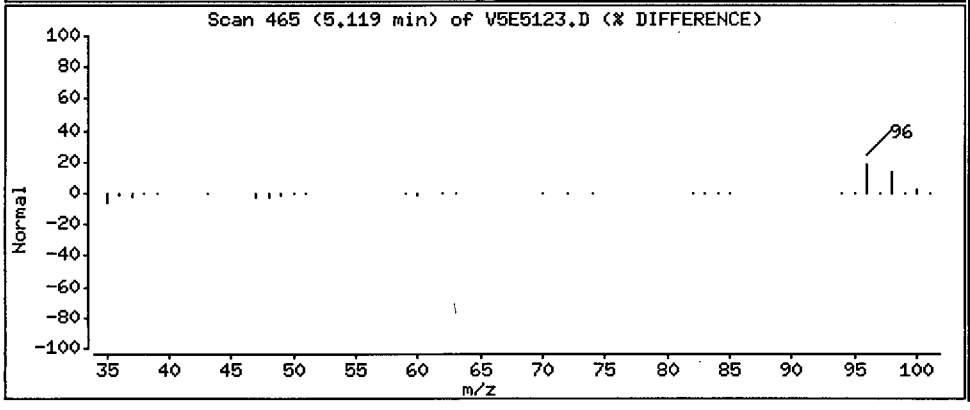
Column phase: DB-624 Column diameter: 0.25

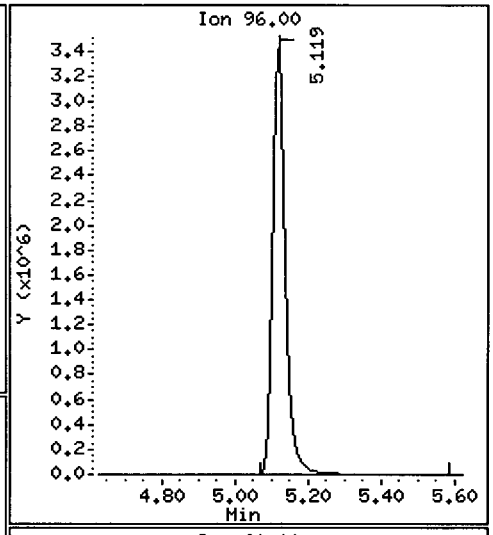
17 cis-1,2-Dichloroethene Concentration: 930 ug/Kg

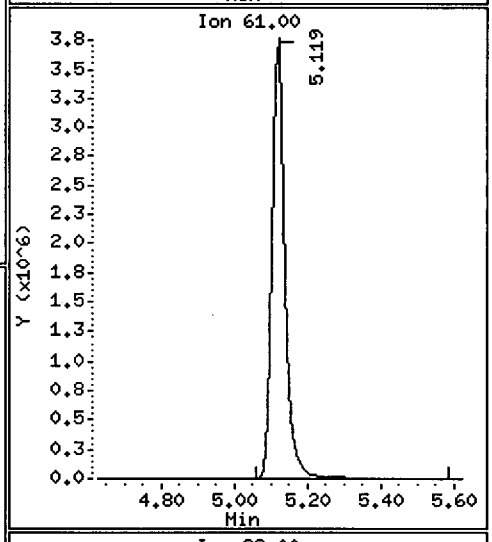


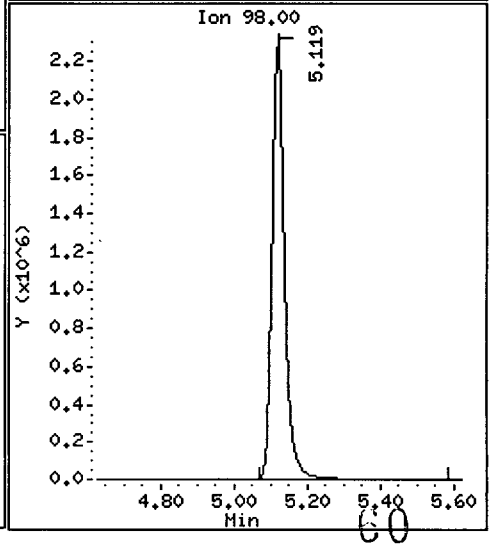












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Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

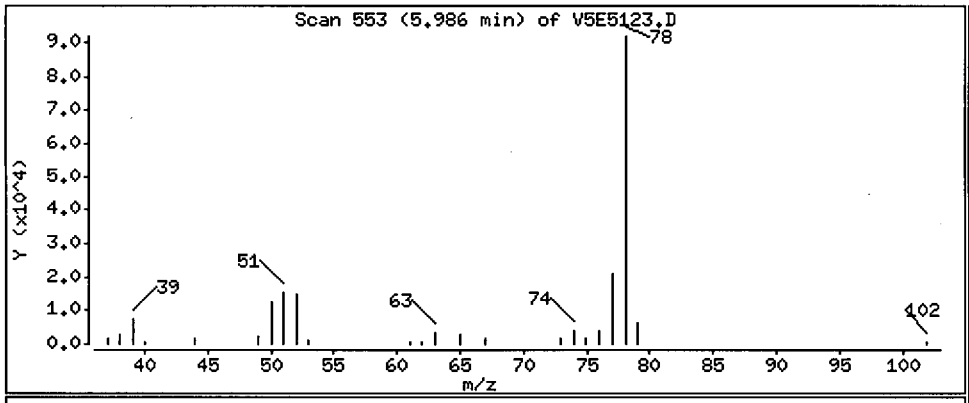
Client ID: YOSL1 Instrument: v5.i

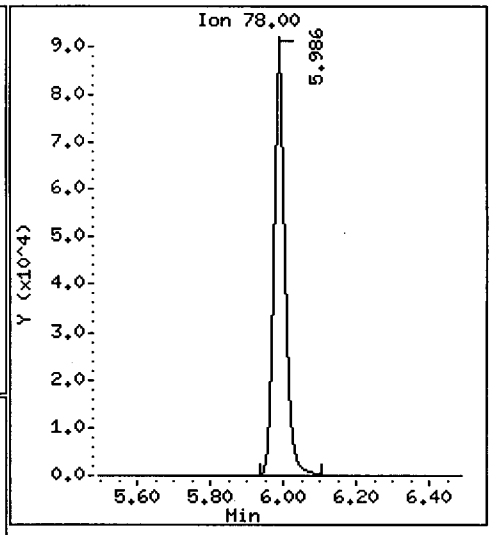
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

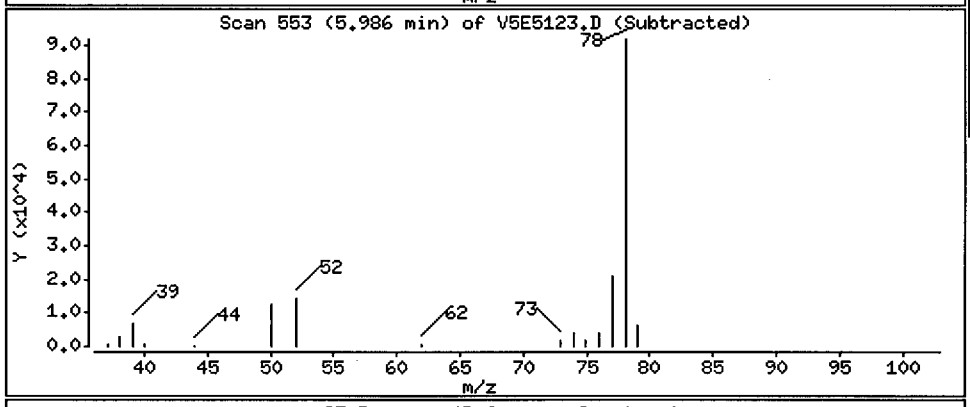
Operator: TRA

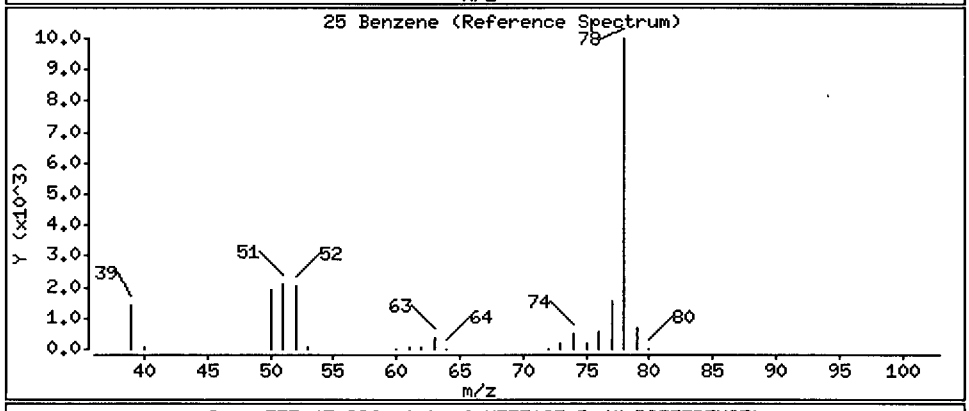
Column phase: DB-624 Column diameter: 0.25

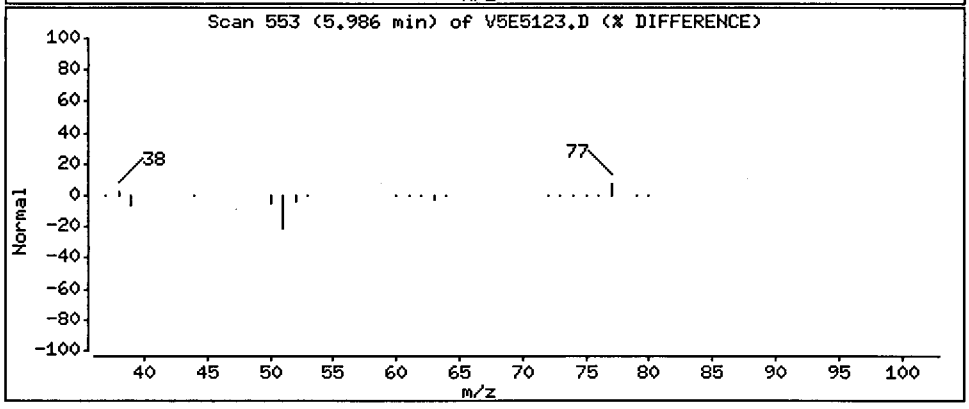
25 Benzene Concentration: 6 ug/Kg











Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

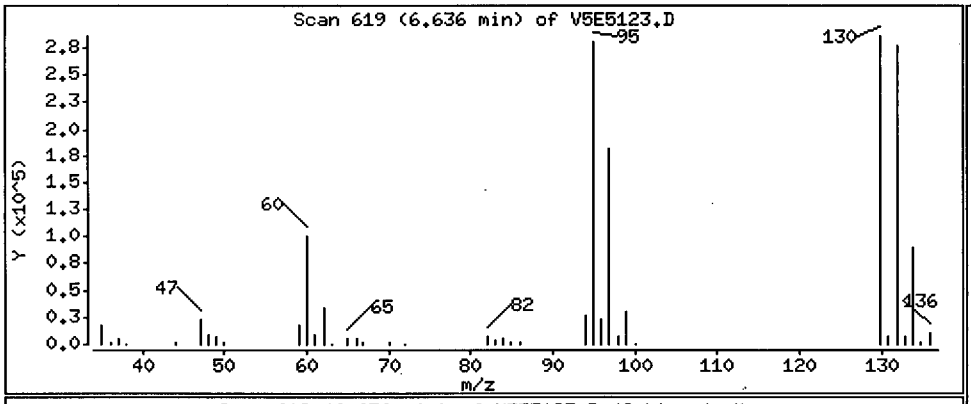
Client ID: YOSL1 | Instrument: v5.i

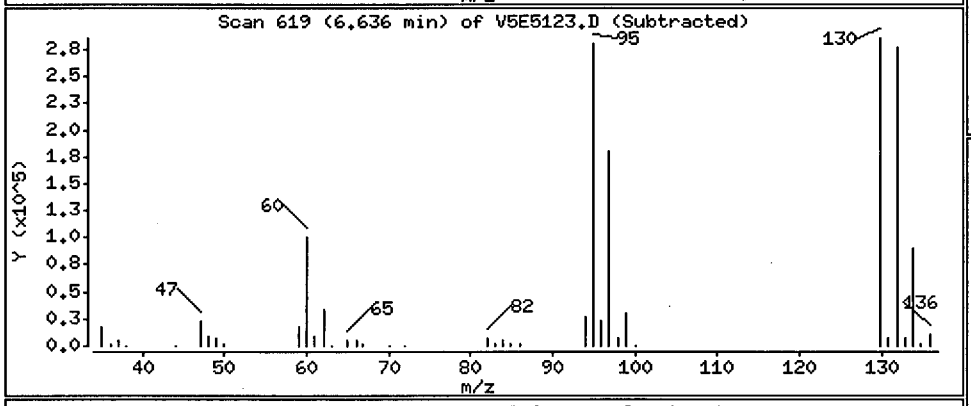
Sample Info: EPA,B0443-04B,YOSL1,V5B0325C,,YOSK8

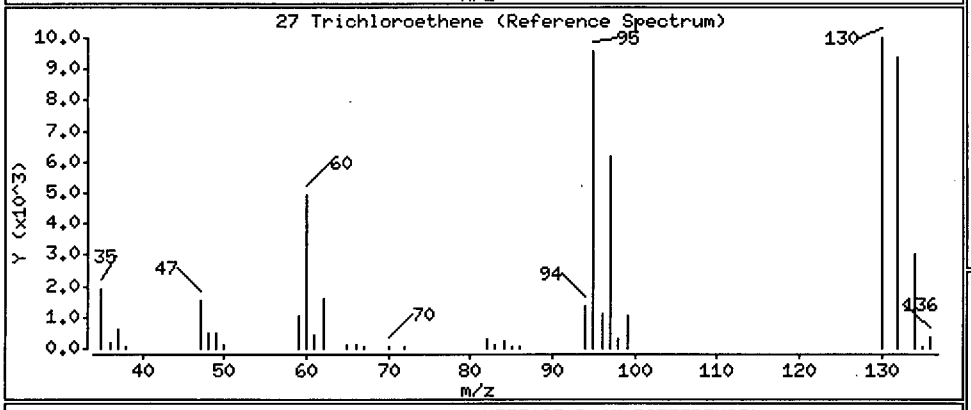
Operator: TRA

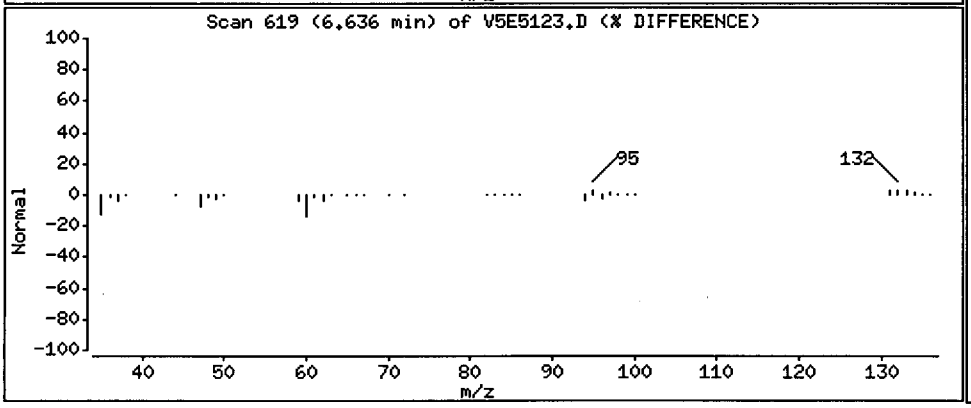
Column phase: DB-624 | Column diameter: 0.25

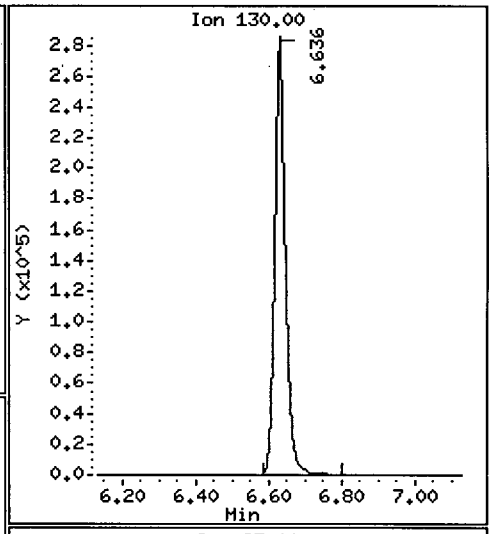
27 Trichloroethene | Concentration: 84 ug/Kg

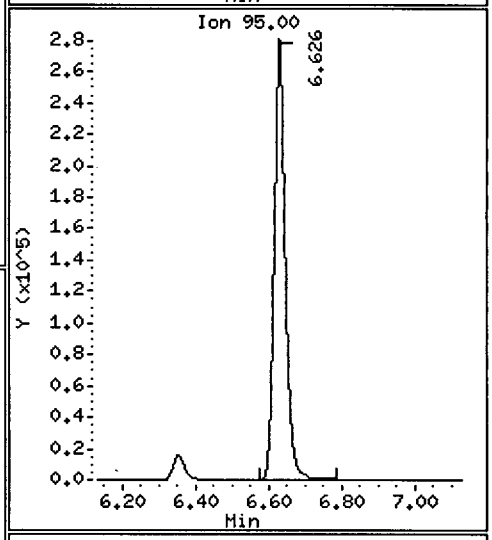


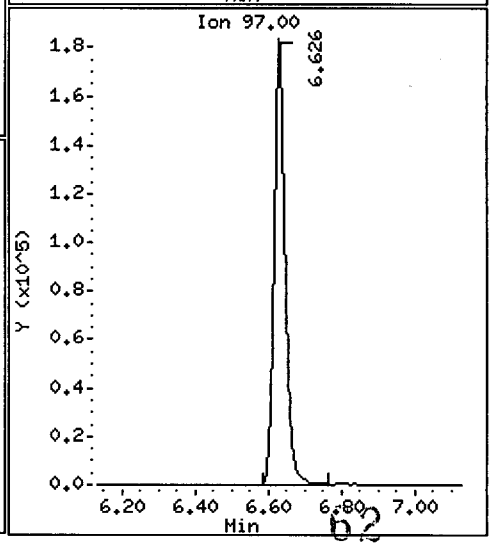












62

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5123.D

Date : 26-MAR-2003 01:13

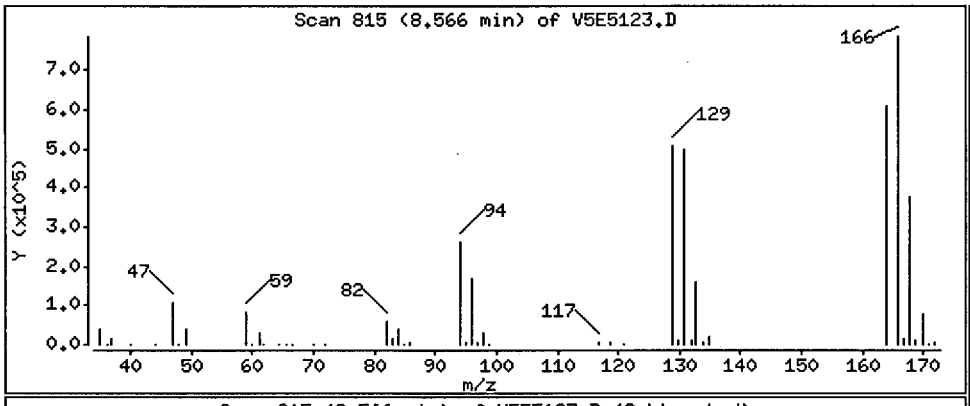
Client ID: Y0SL1 Instrument: v5.i

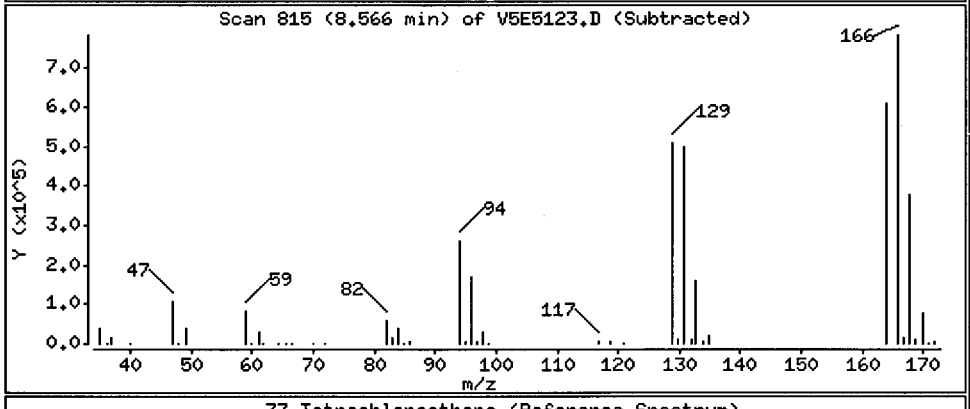
Sample Info: EPA,B0443-04B,Y0SL1,V5B0325C,,Y0SK8

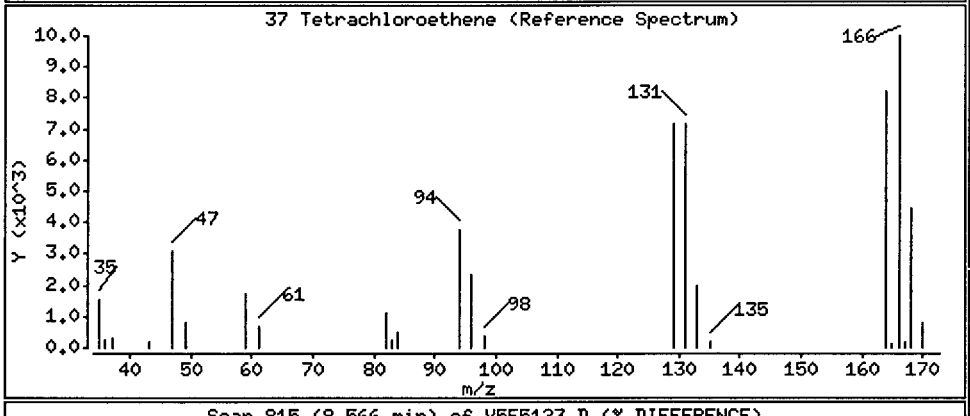
Operator: TRA

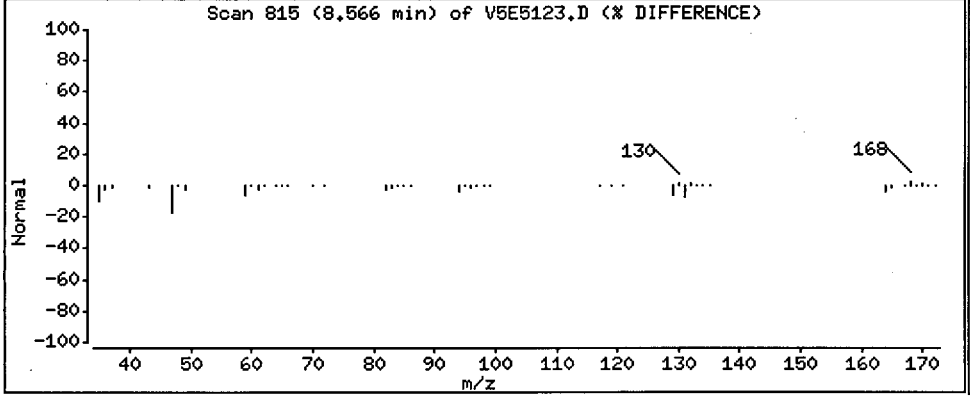
Column phase: DB-624 Column diameter: 0.25

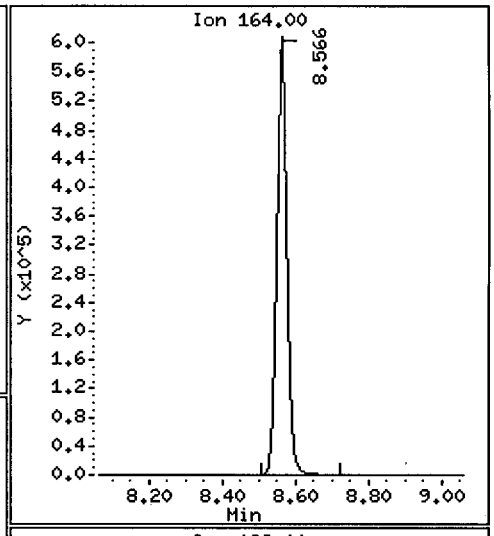
37 Tetrachloroethene Concentration: 190 ug/Kg

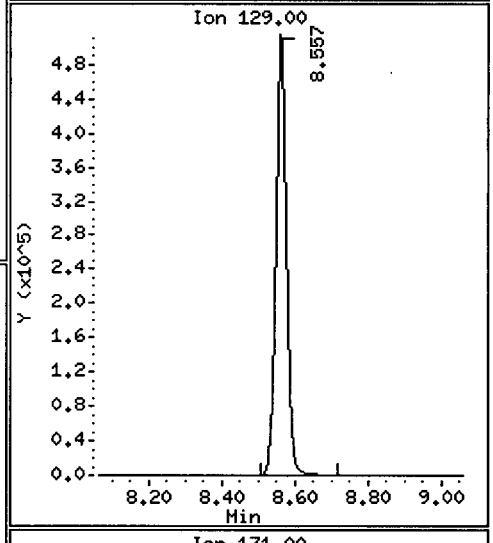


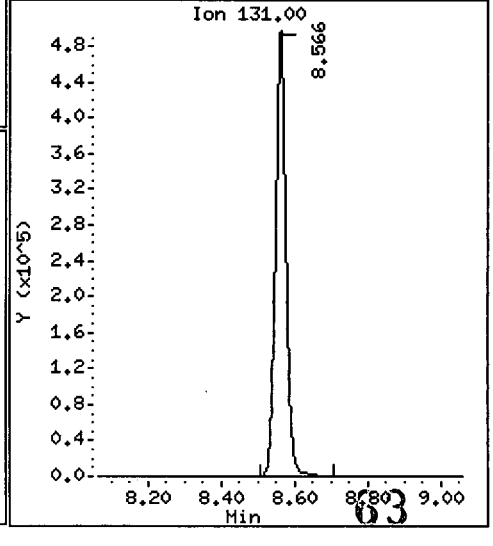












1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL2

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-05B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5124

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 24 Date Analyzed: 03/26/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	30	
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	4	J
75-15-0	Carbon Disulfide	12	U
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	10	J
1634-04-4	Methyl tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	860	E
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	2	J
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	5	J
107-06-2	1,2-Dichloroethane	12	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL2

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-05B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5124

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 24 Date Analyzed: 03/26/03

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

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

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

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	74	
108-87-2	Methylcyclohexane	2	J
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	190	
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y0SL2

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-05B

Sample wt/vol: 5.7 (g/mL) G Lab File ID: V5E5124

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 24 Date Analyzed: 03/26/03

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
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9.				
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23.				
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25.				
26.				
27.				
28.				
29.				
30.				

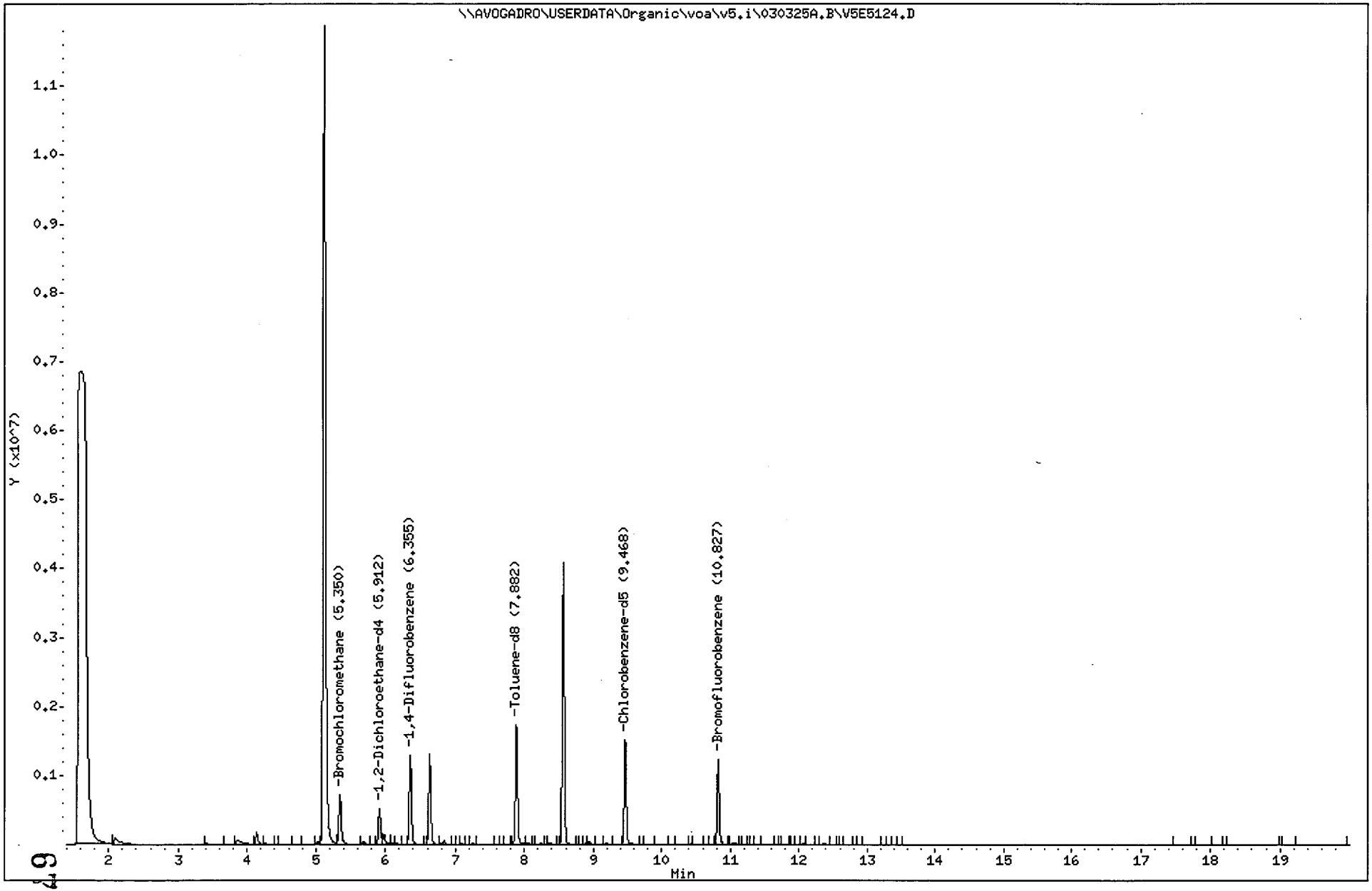
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D
Date : 26-MAR-2003 01:43
Client ID: YOSL2
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5124.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D
Lab Smp Id: B0443-05B Client Smp ID: Y0SL2
Inj Date : 26-MAR-2003 01:43
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-05B,Y0SL2,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.700	Weight of sample (g)
M	24.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
3 Vinyl Chloride	62	2.100	2.109	(0.393)	246955	26.1265	30
9 Acetone	43	3.420	3.419	(0.639)	13566	3.51701	4(a)
12 Methylene Chloride	84	3.863	3.872	(0.722)	92474	7.39075	9(a)
13 trans-1,2-Dichloroethene	96	4.139	4.148	(0.774)	87729	8.86303	10(a)
17 cis-1,2-Dichloroethene	96	5.114	5.123	(0.956)	7540535	742.058	860(A)
* 18 Bromochloromethane	128	5.351	5.359	(1.000)	230568	50.0000	
21 Cyclohexane	56	5.685	5.694	(0.895)	29226	1.98758	2(a)
$ 23 1,2-Dichloroethane-d4	65	5.912	5.921	(1.105)	392764	57.0521	66
25 Benzene	78	5.991	5.990	(0.943)	144574	4.19853	5(a)
* 26 1,4-Difluorobenzene	114	6.355	6.354	(1.000)	1282456	50.0000	
27 Trichloroethene	130	6.631	6.630	(1.043)	507157	64.3024	74
28 Methylcyclohexane	83	6.838	6.847	(1.076)	27808	1.88235	2(a)
$ 33 Toluene-d8	98	7.882	7.891	(0.832)	1496405	51.7354	60
37 Tetrachloroethene	164	8.561	8.561	(0.903)	1192945	162.267	190
* 42 Chlorobenzene-d5	117	9.477	9.477	(1.000)	1150204	50.0000	

Data File: V5E5124.D
Report Date: 03-Apr-2003 10:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 50 Bromofluorobenzene	95	10.827	10.826	(1.142)	580922	50.3771	58

QC Flag Legend

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

58
4/3/03

Data File: V5E5124.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D
Lab Smp Id: B0443-05B Client Smp ID: Y0SL2
Inj Date : 26-MAR-2003 01:43
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-05B,Y0SL2,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

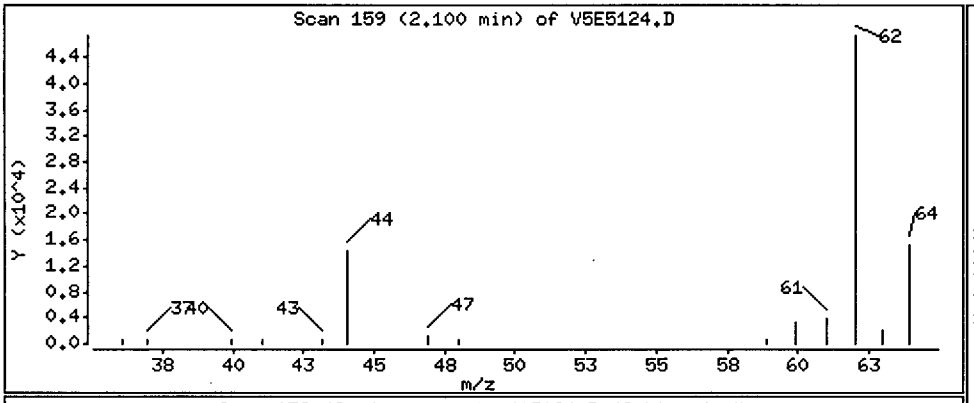
Client ID: YOSL2 Instrument: v5.i

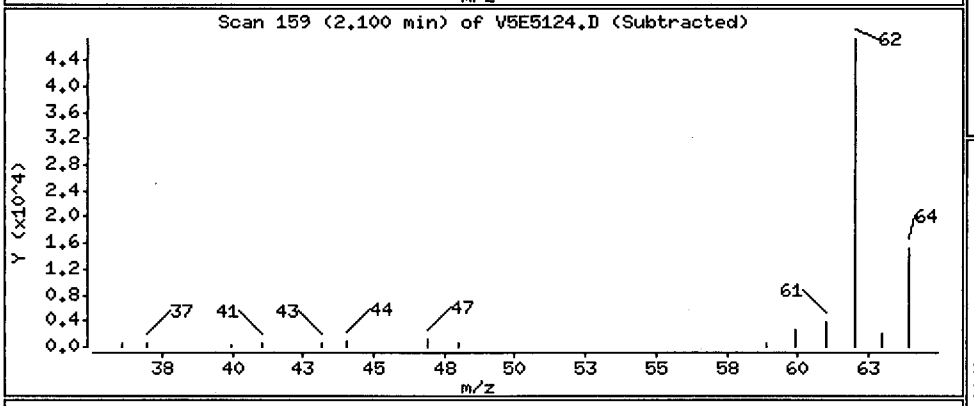
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

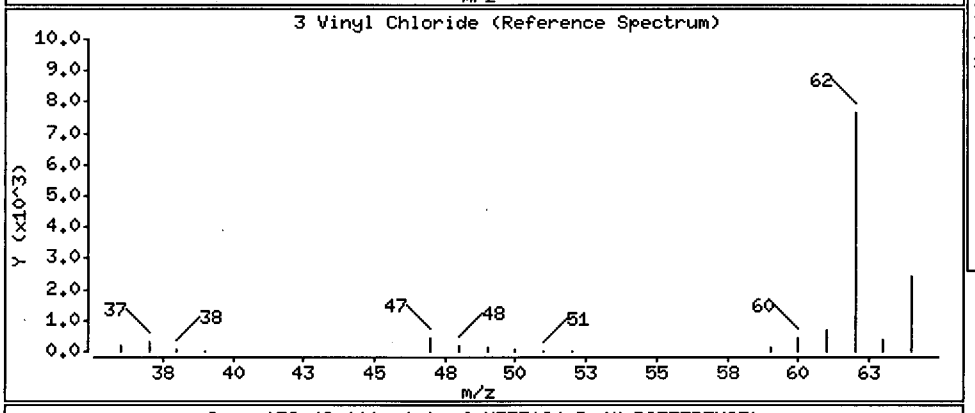
Operator: TRA

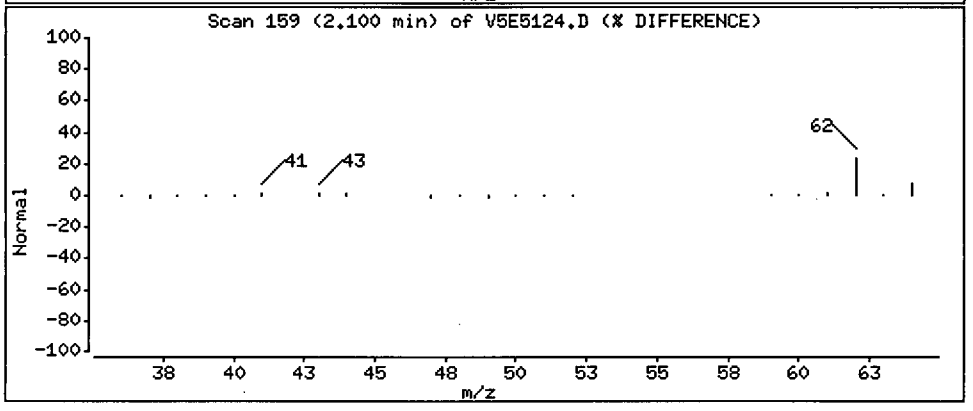
Column phase: DB-624 Column diameter: 0.25

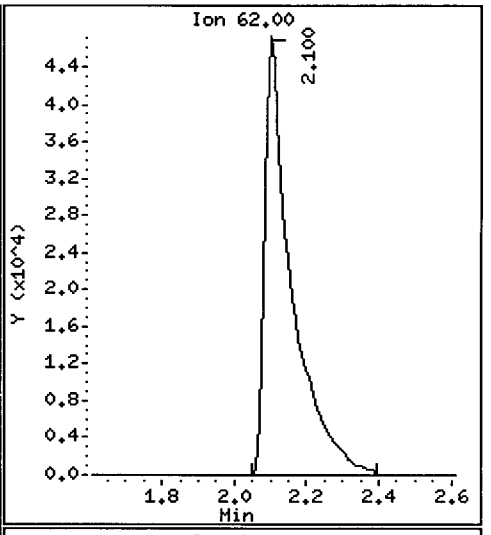
3 Vinyl Chloride Concentration: 30 ug/Kg

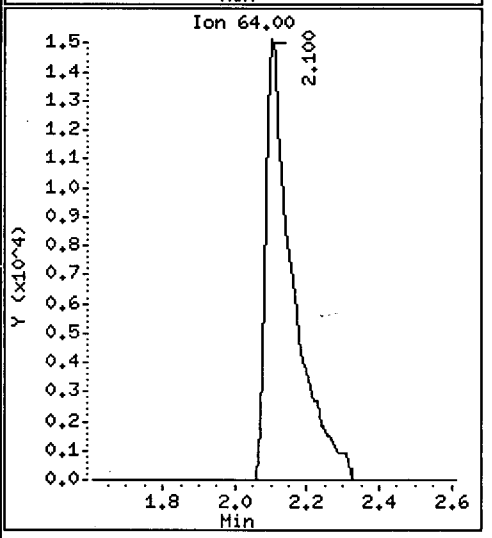












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Date : 26-MAR-2003 01:43

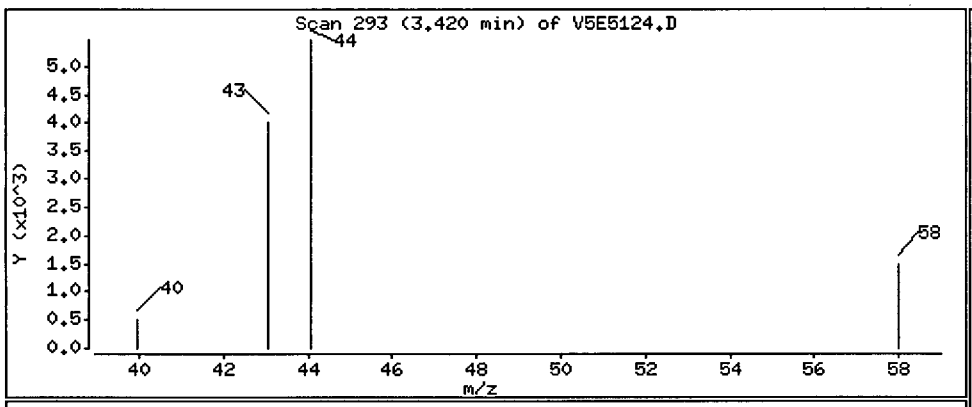
Client ID: YOSL2 Instrument: v5.i

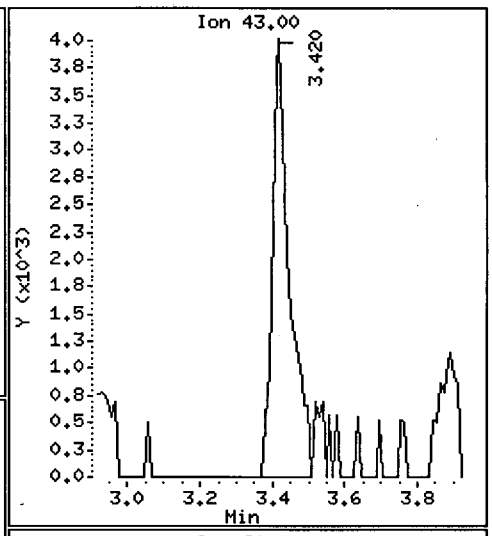
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

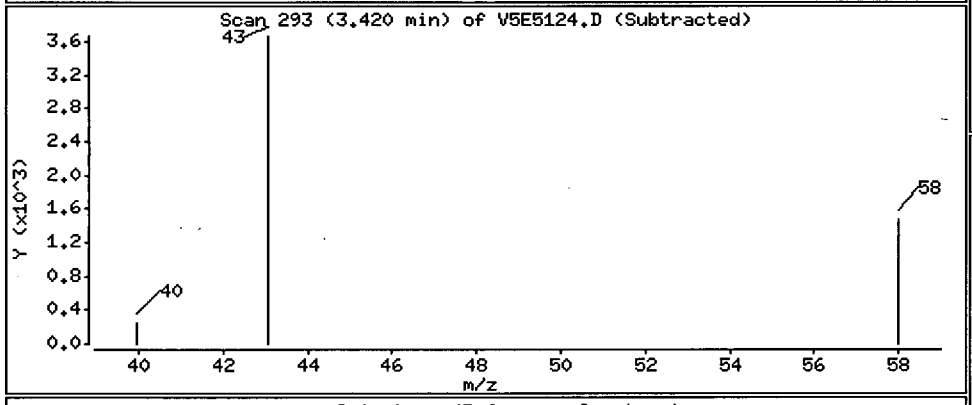
Operator: TRA

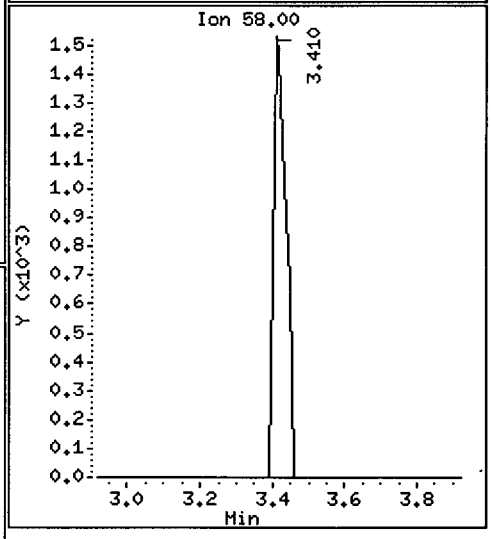
Column phase: DB-624 Column diameter: 0.25

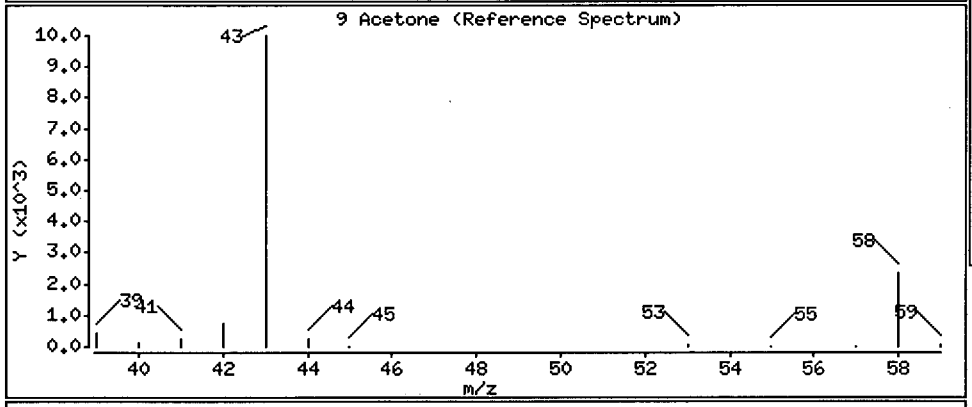
9 Acetone Concentration: 4 ug/Kg

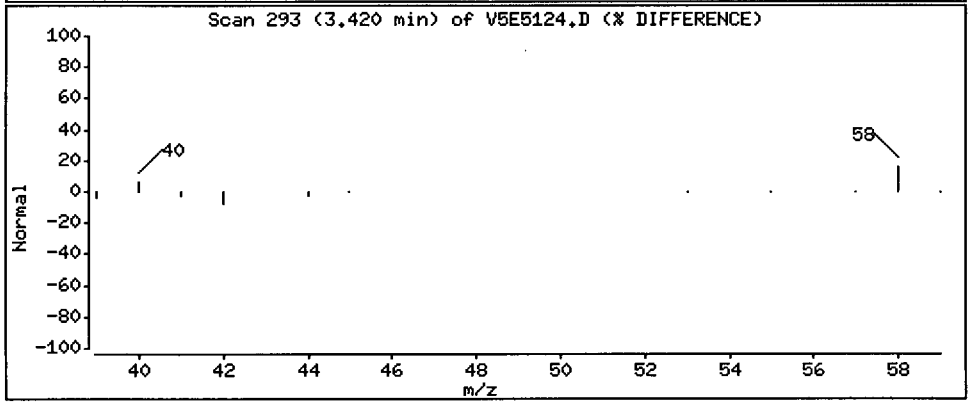












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

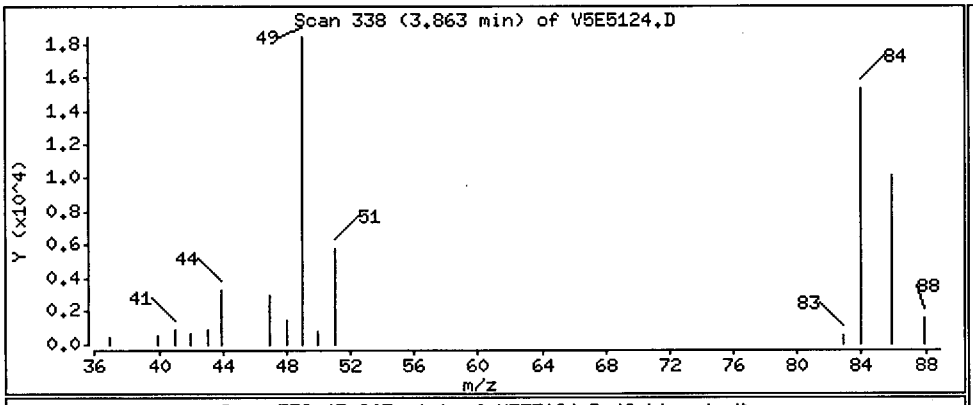
Client ID: YOSL2 Instrument: v5.i

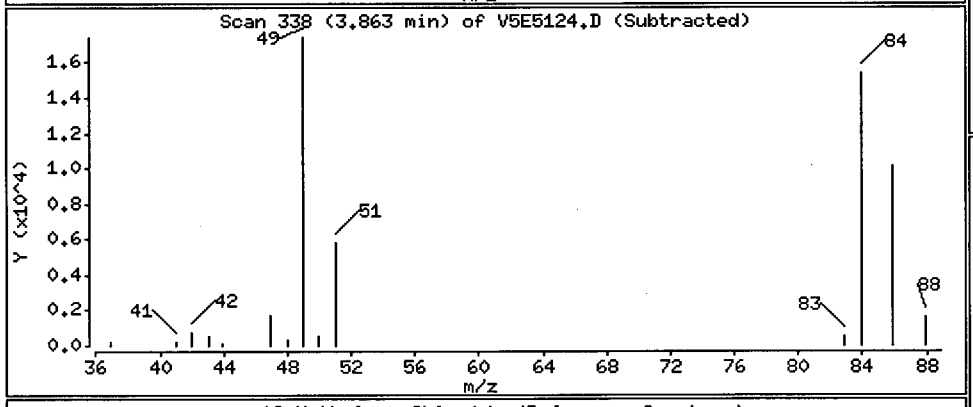
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

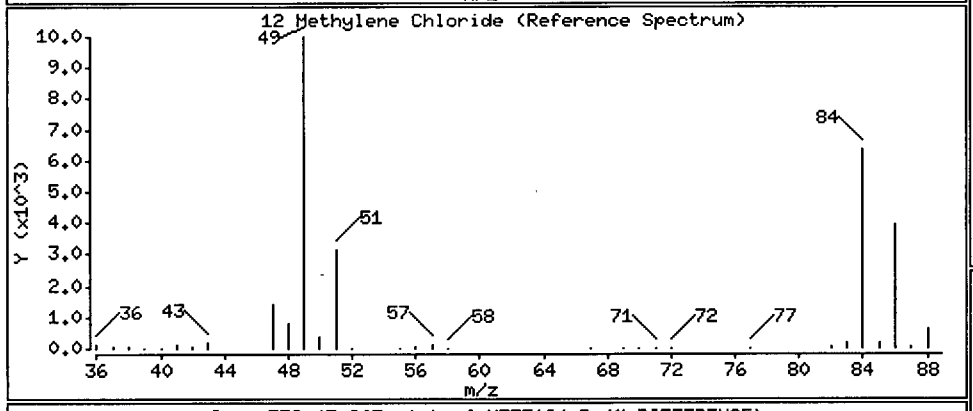
Operator: TRA

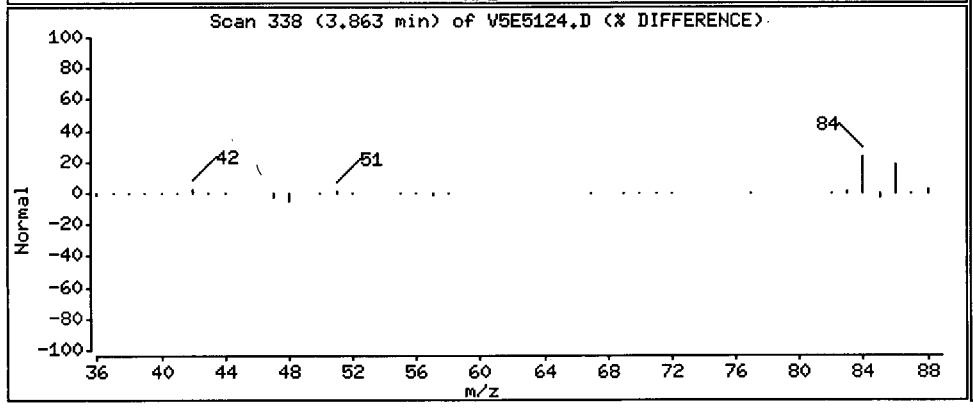
Column phase: DB-624 Column diameter: 0.25

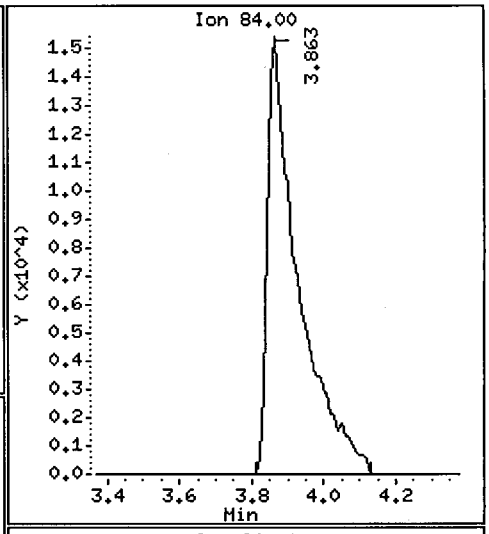
12 Methylene Chloride Concentration: 9 ug/Kg

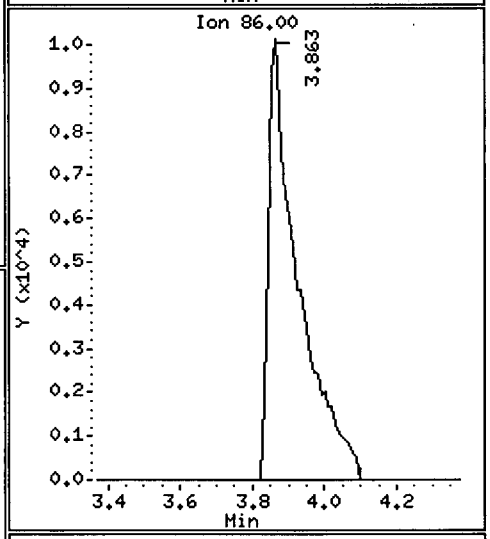


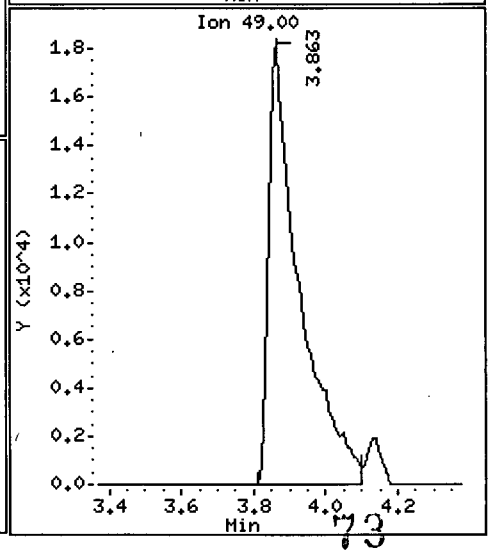












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

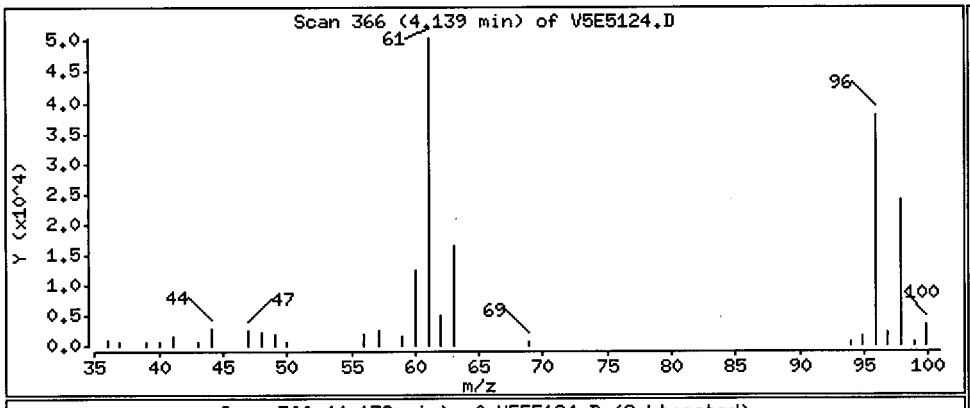
Client ID: YOSL2 | Instrument: v5.i

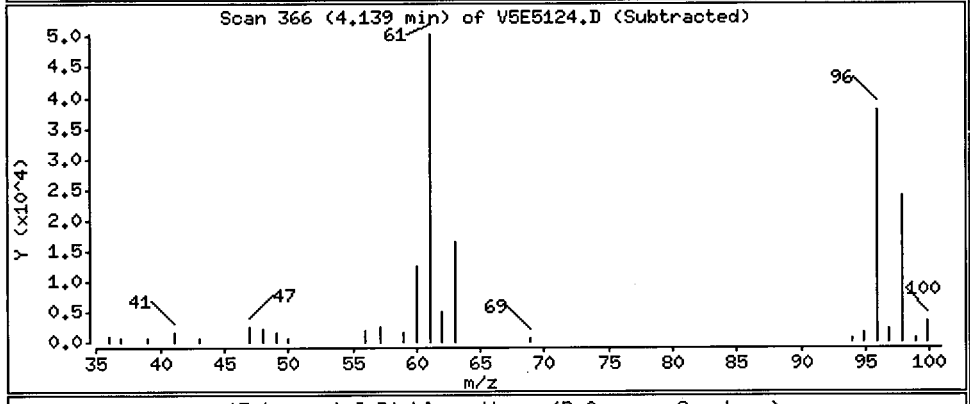
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

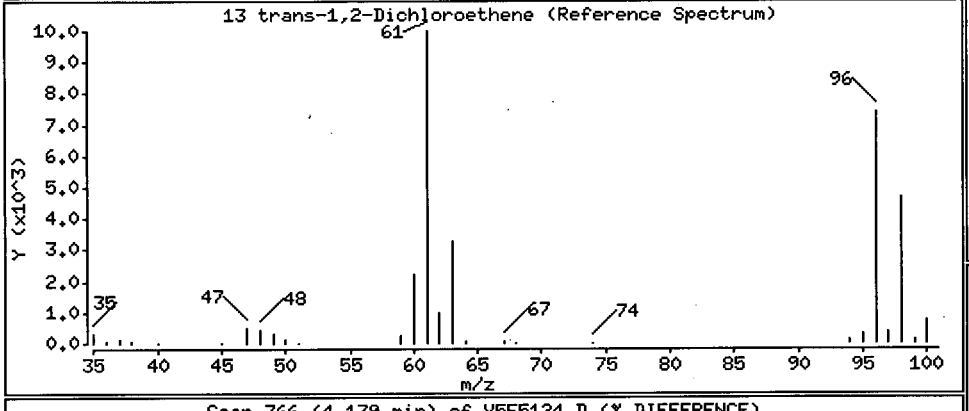
Operator: TRA

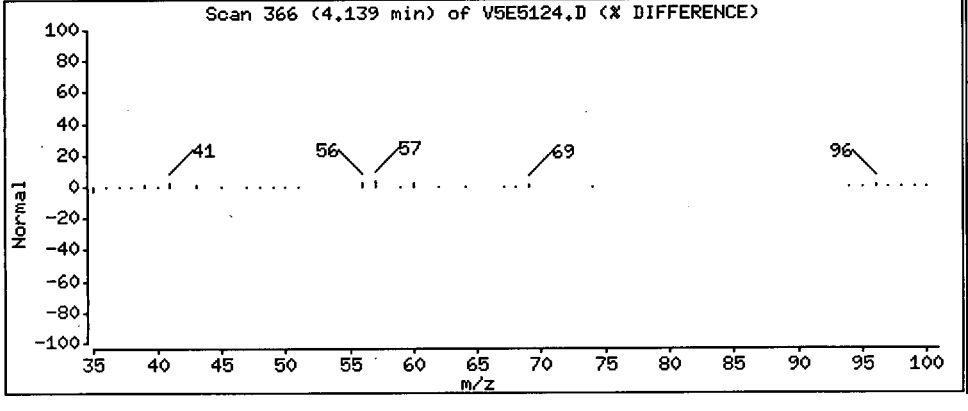
Column phase: DB-624 | Column diameter: 0.25

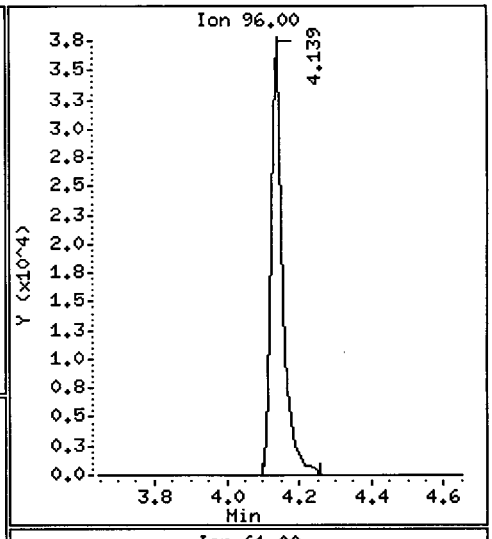
13 trans-1,2-Dichloroethene | Concentration: 10 ug/Kg

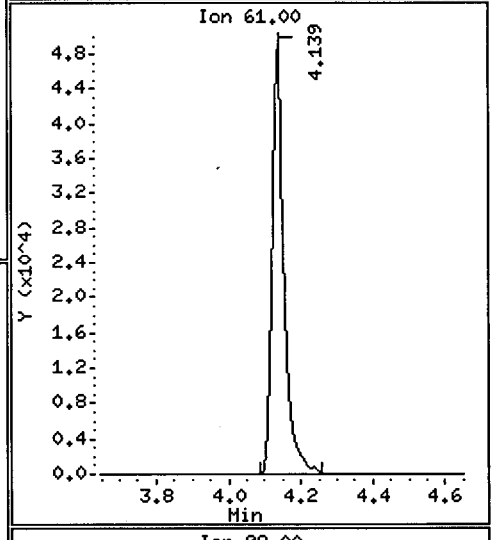


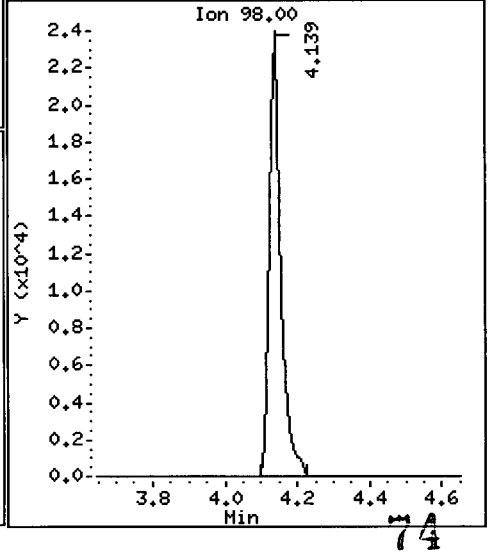












14

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

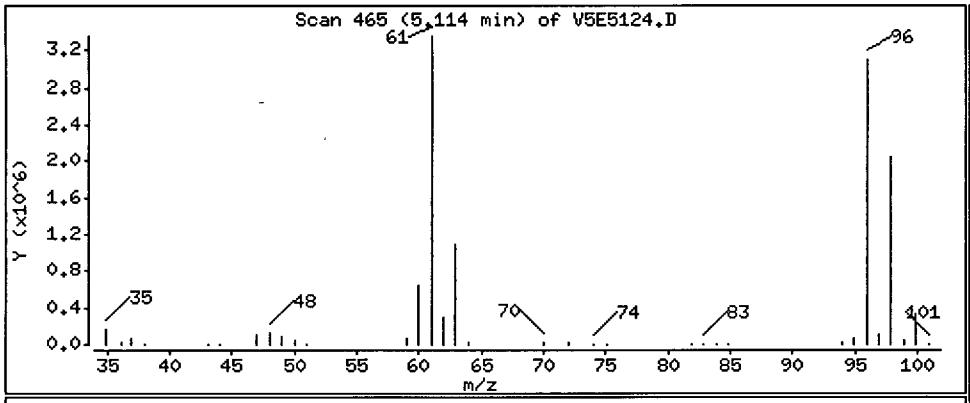
Client ID: YOSL2 Instrument: v5.i

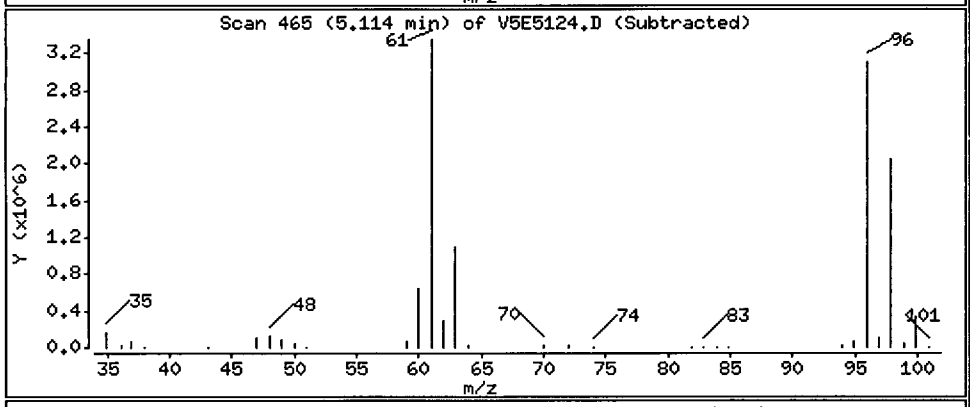
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

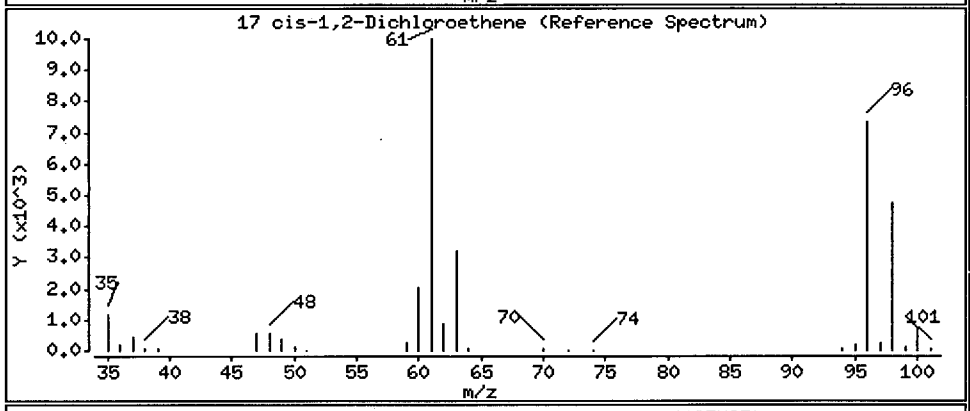
Operator: TRA

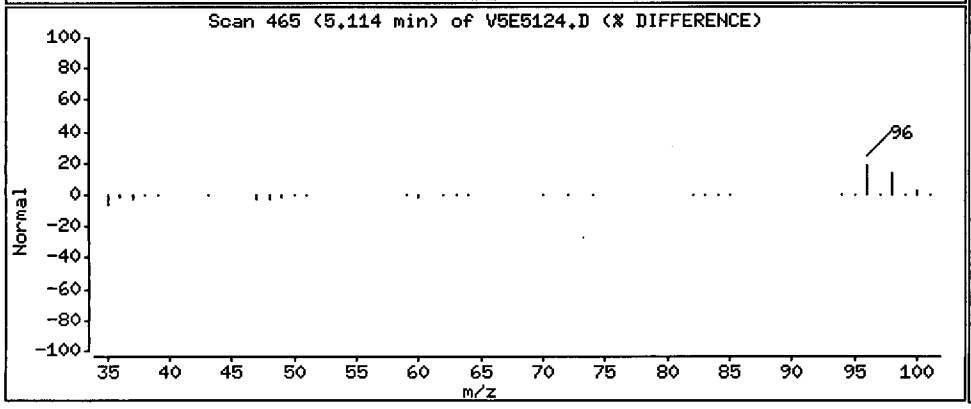
Column phase: DB-624 Column diameter: 0.25

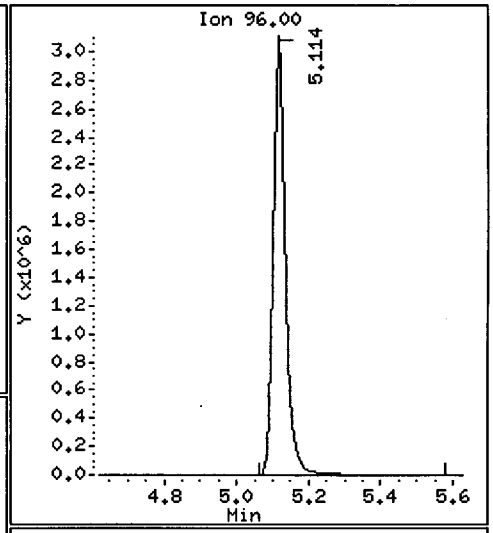
17 cis-1,2-Dichloroethene Concentration: 860 ug/Kg

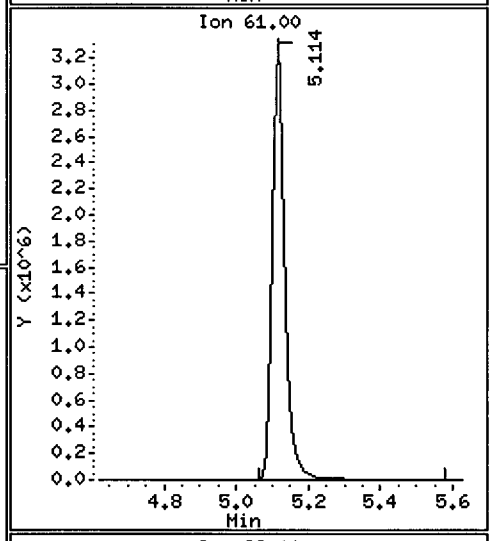


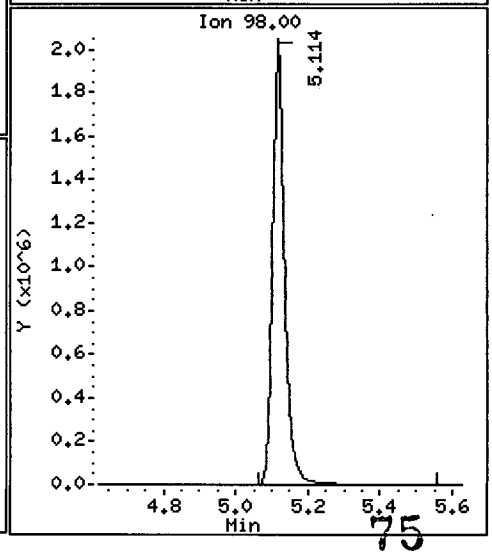












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

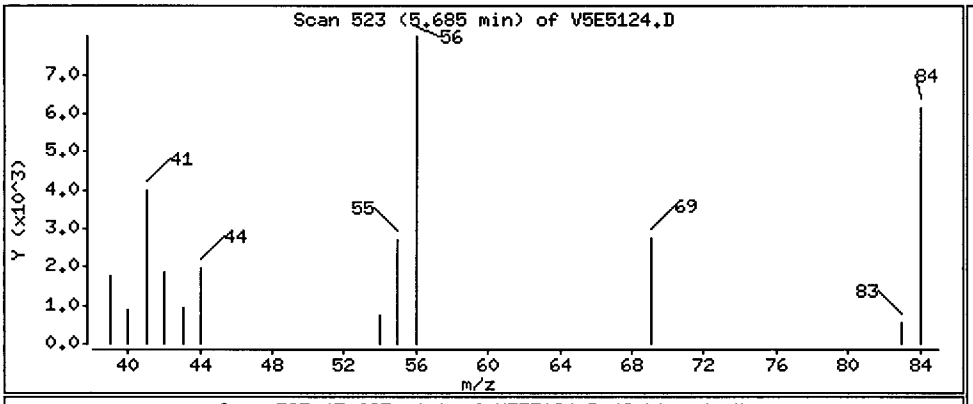
Client ID: YOSL2 Instrument: v5.i

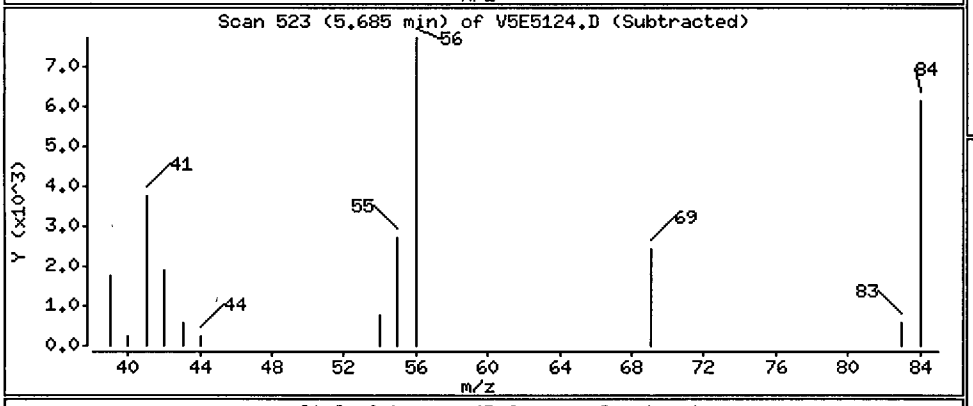
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

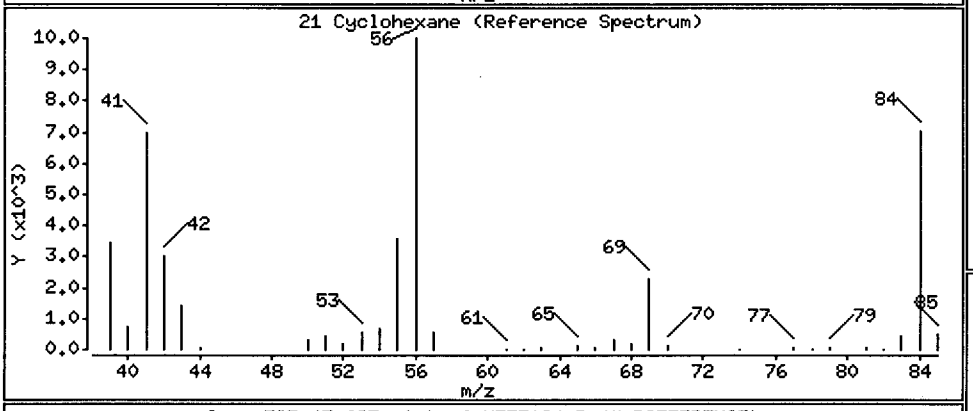
Operator: TRA

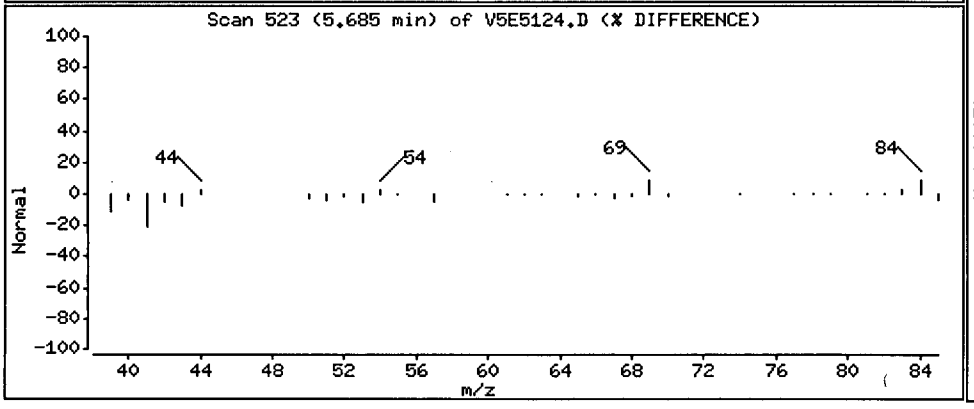
Column phase: DB-624 Column diameter: 0.25

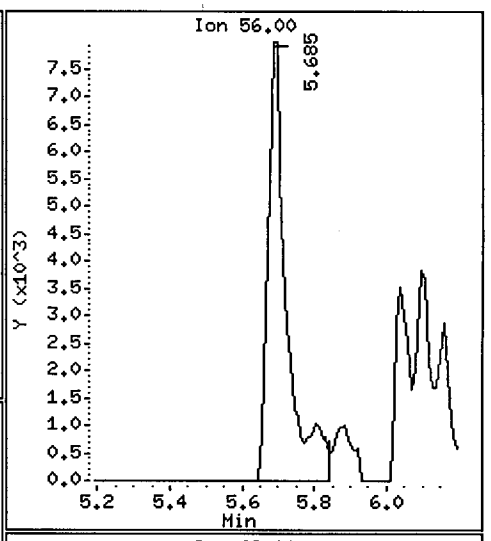
21 Cyclohexane Concentration: 2 ug/Kg

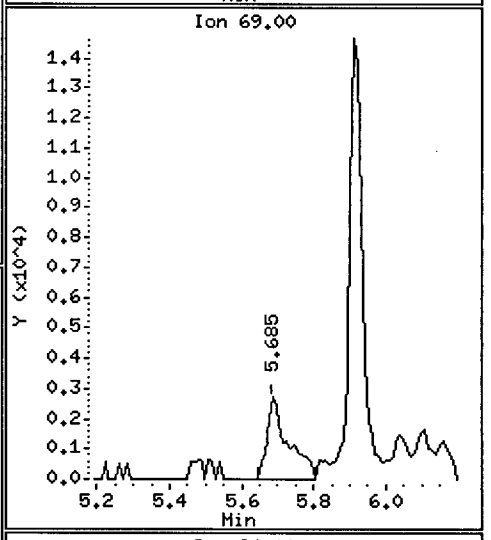


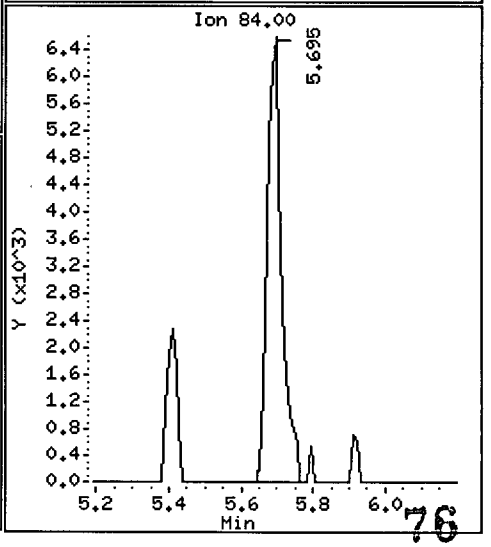












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

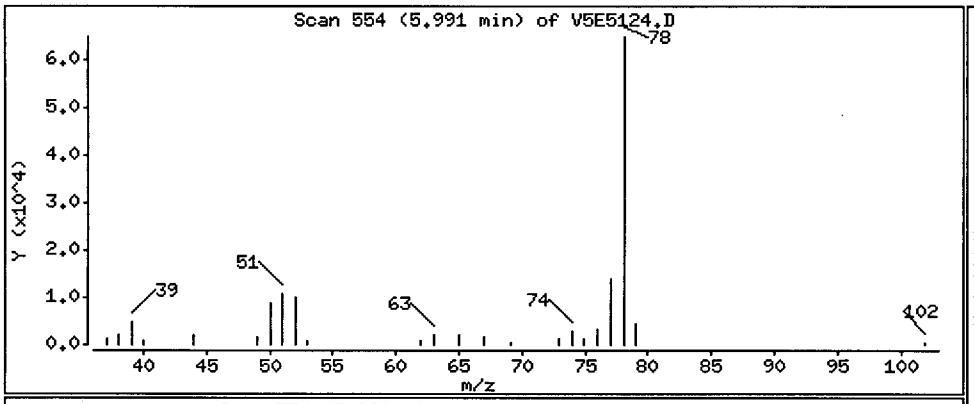
Client ID: YOSL2 Instrument: v5.i

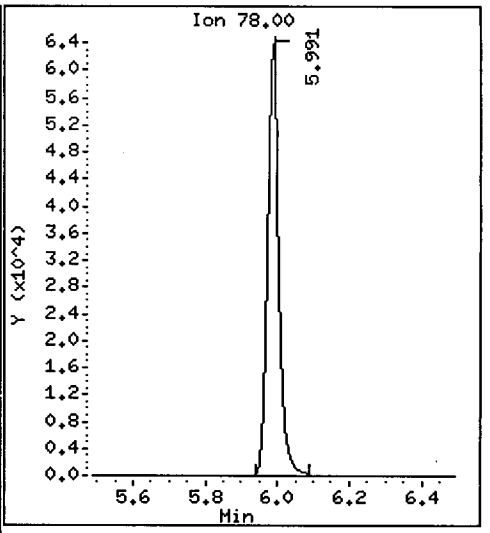
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

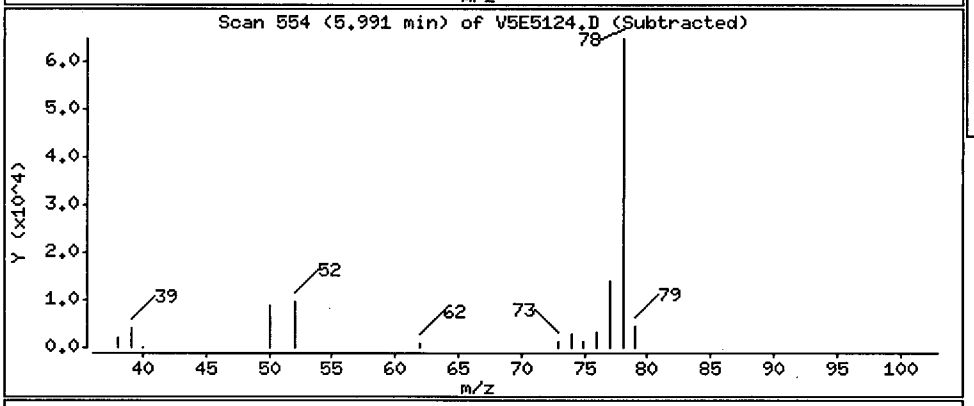
Operator: TRA

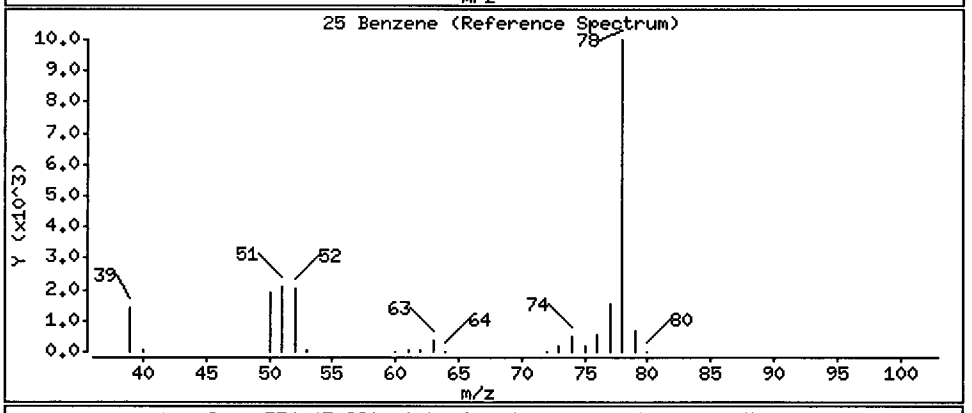
Column phase: DB-624 Column diameter: 0.25

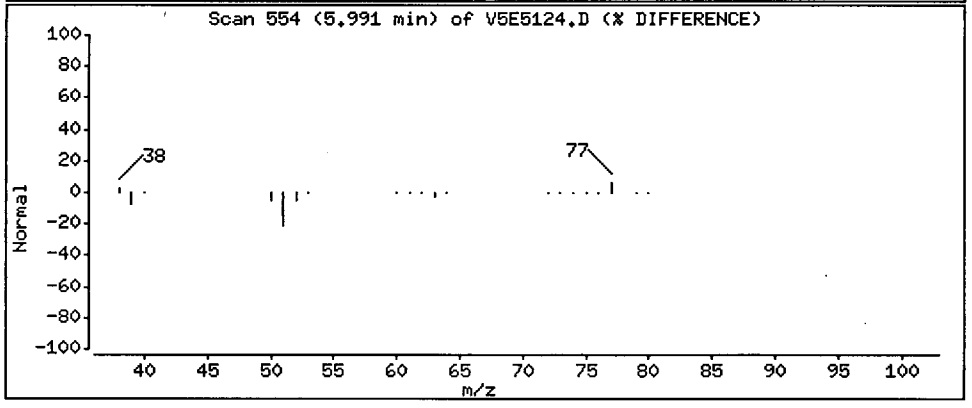
25 Benzene Concentration: 5 ug/Kg











Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

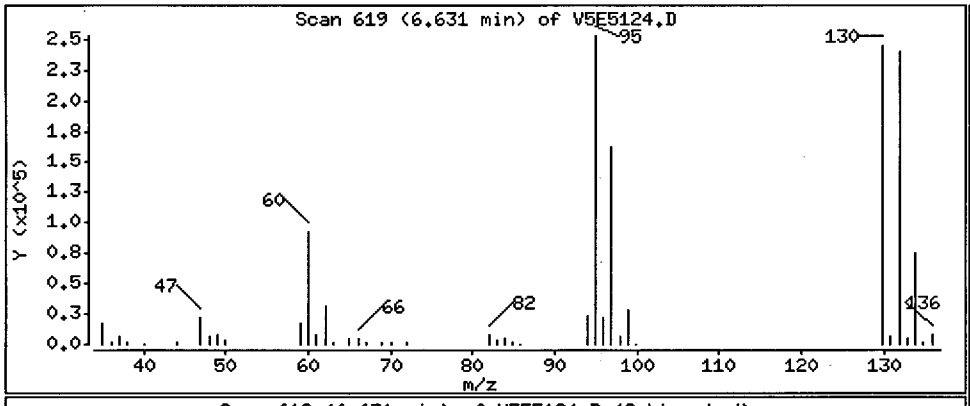
Client ID: YOSL2 Instrument: v5.i

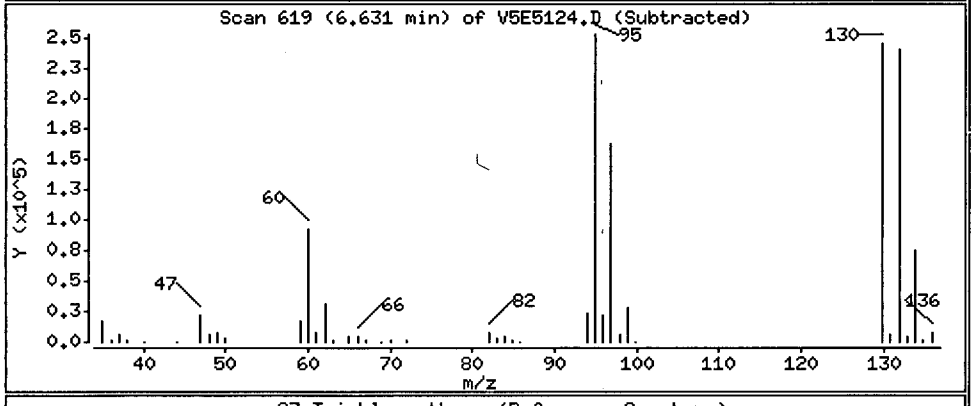
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

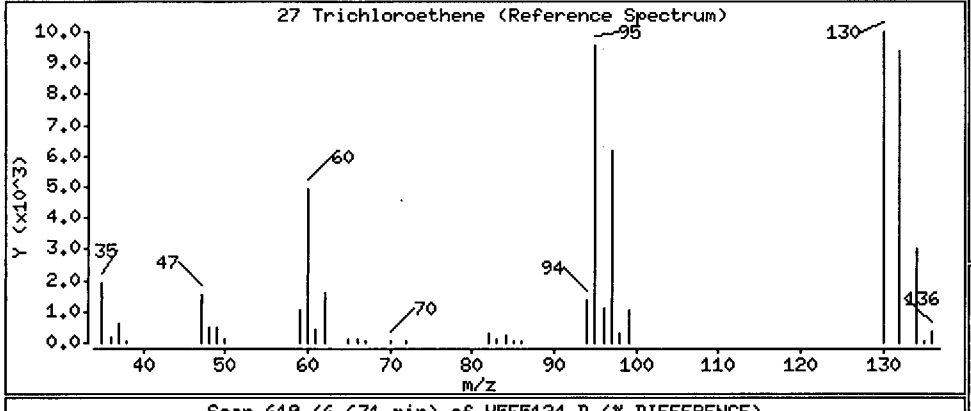
Operator: TRA

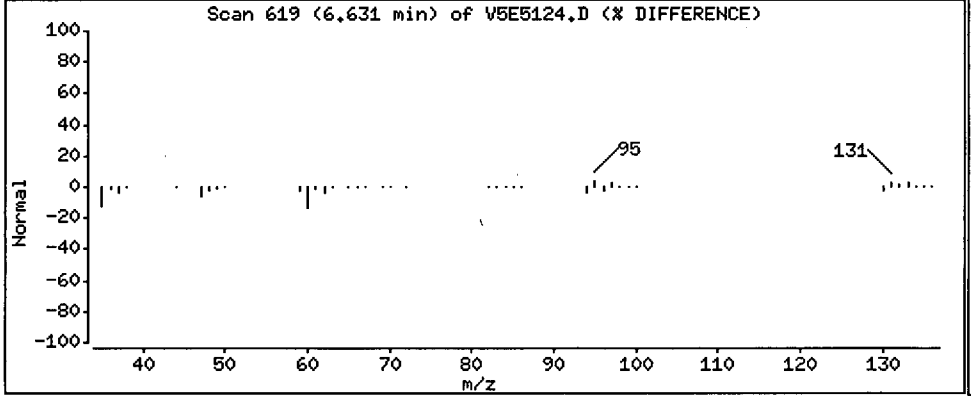
Column phase: DB-624 Column diameter: 0.25

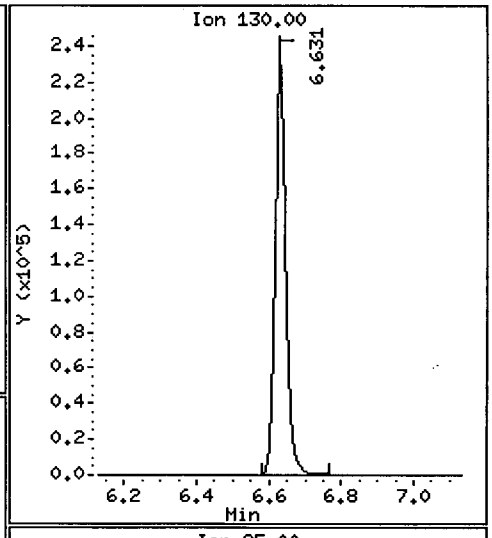
27 Trichloroethene Concentration: 74 ug/Kg

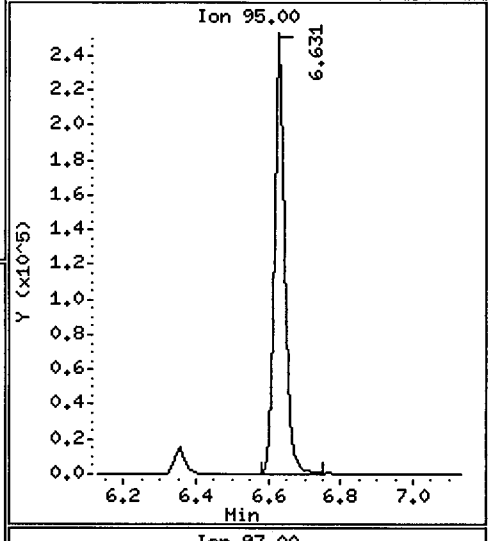


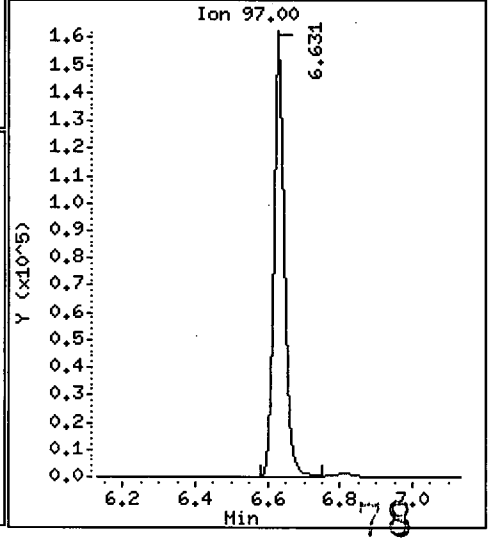












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

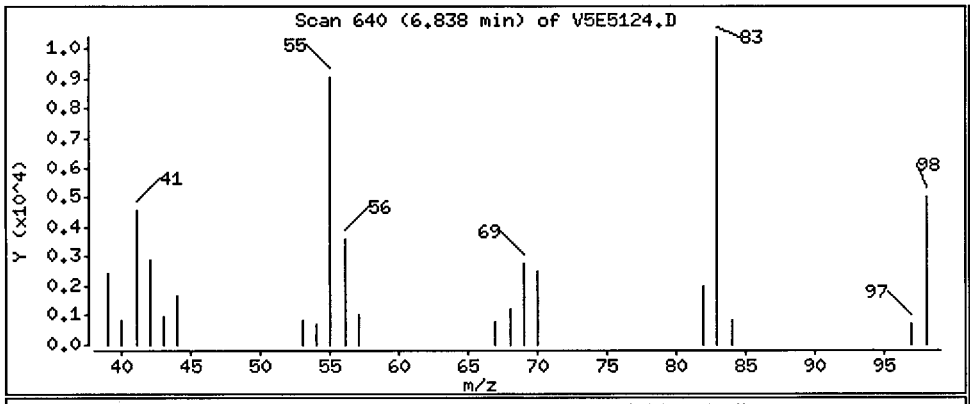
Client ID: Y0SL2 Instrument: v5.i

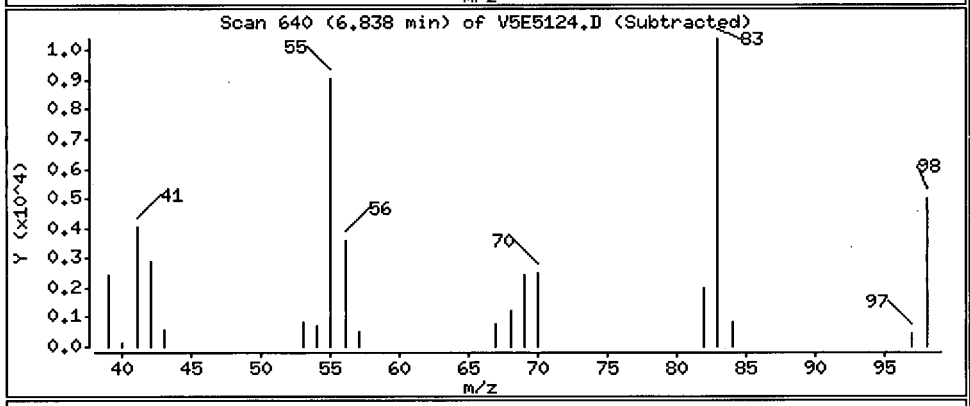
Sample Info: EPA,B0443-05B,Y0SL2,V5B0325C,,Y0SK8

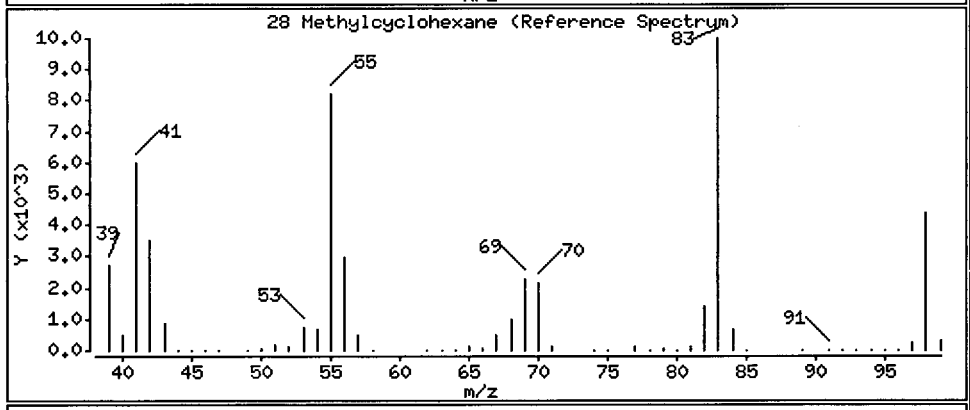
Operator: TRA

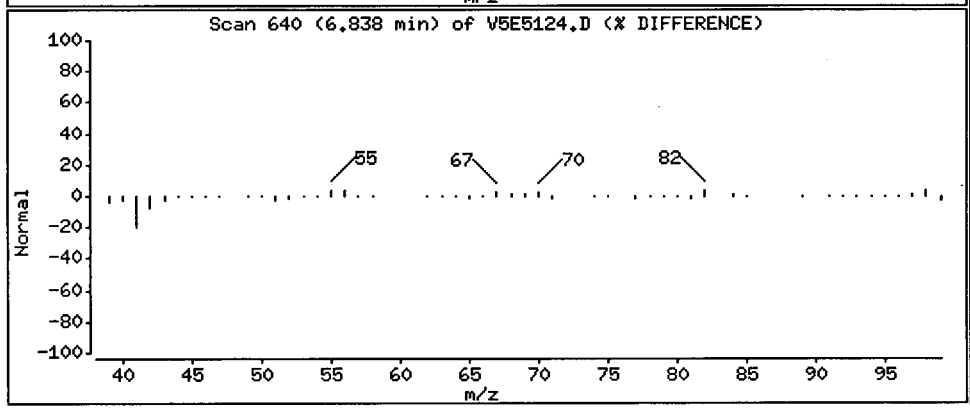
Column phase: DB-624 Column diameter: 0.25

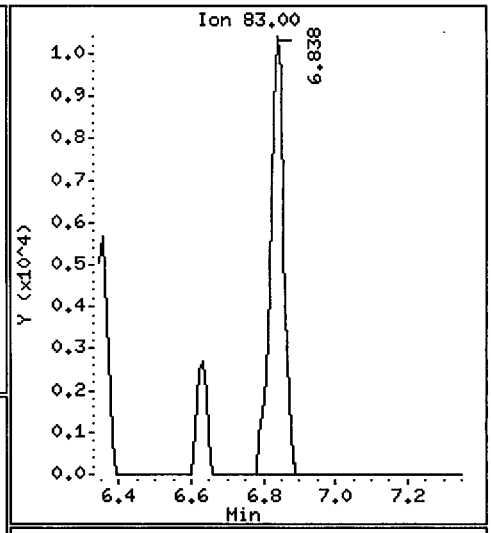
28 Methylcyclohexane Concentration: 2 ug/Kg

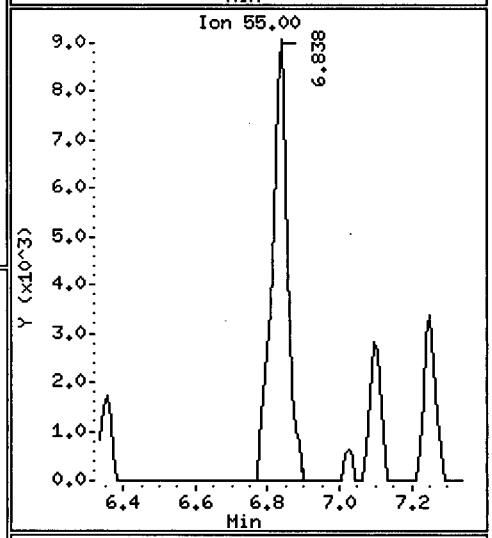


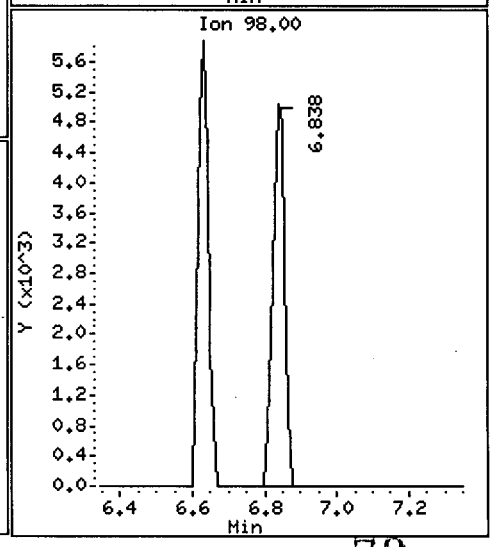












Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5124.D

Date : 26-MAR-2003 01:43

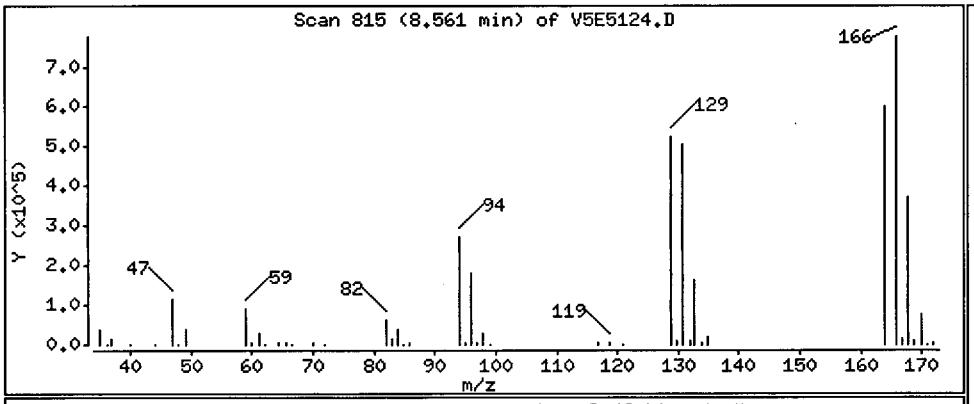
Client ID: YOSL2 Instrument: v5.i

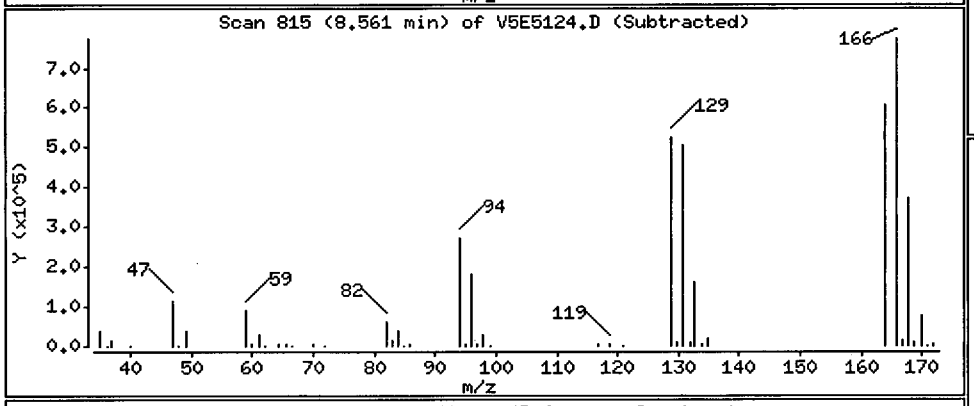
Sample Info: EPA,B0443-05B,YOSL2,V5B0325C,,YOSK8

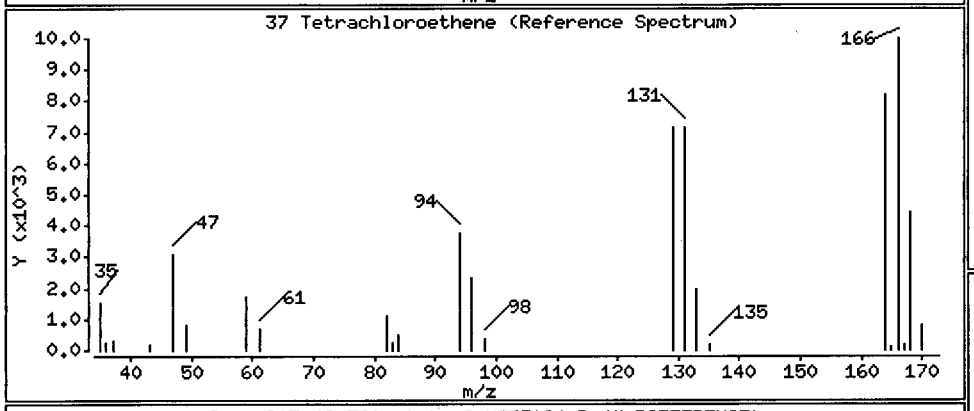
Operator: TRA

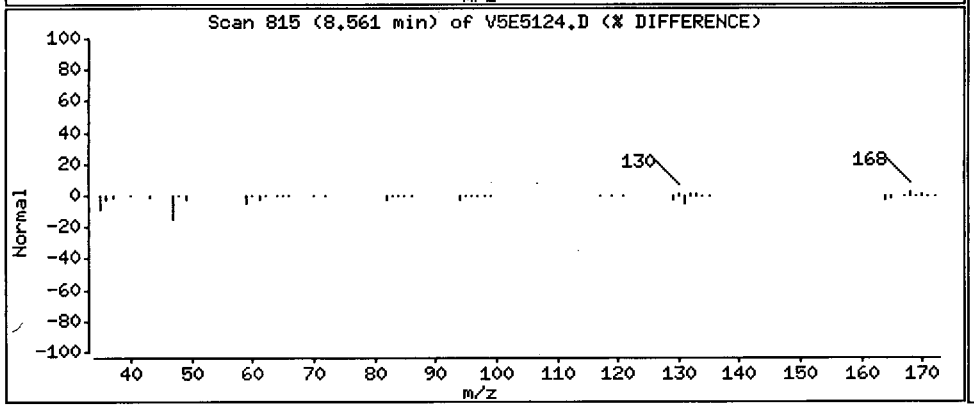
Column phase: DB-624 Column diameter: 0.25

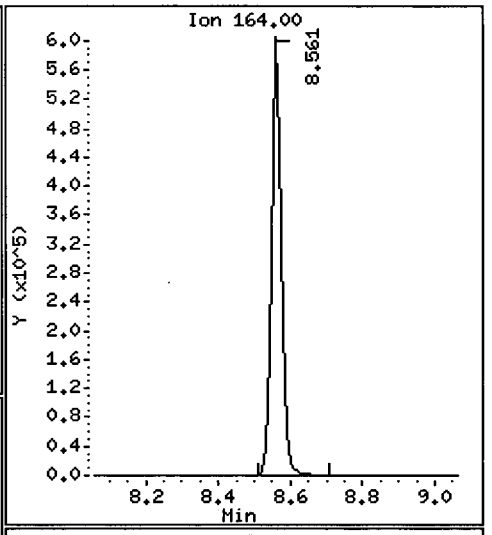
37 Tetrachloroethene Concentration: 190 ug/Kg

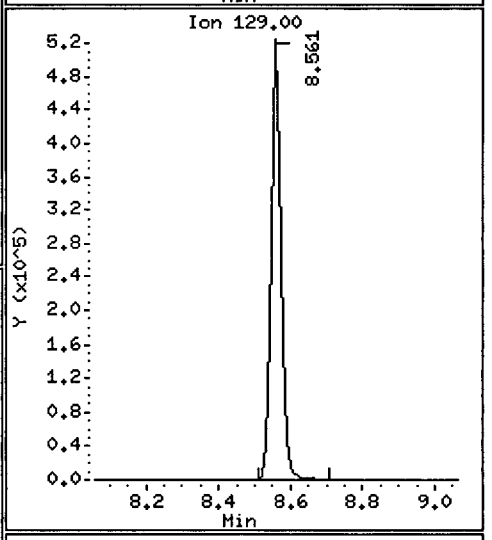


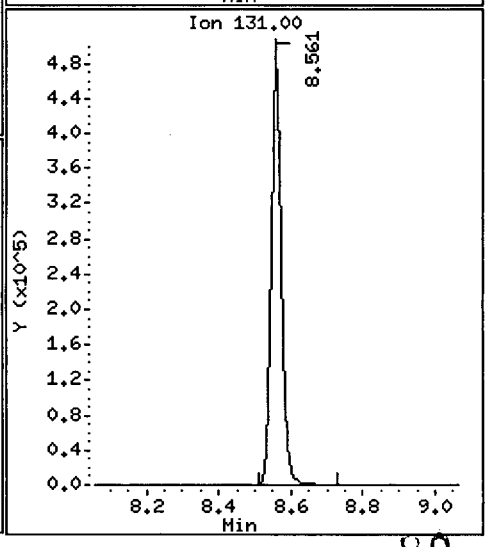












6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Instrument ID: V5 Calibration Date(s): 01/28/03 01/28/03

Heated Purge: (Y/N) Y Calibration Times: 1054 1302

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

LAB FILE ID: RRF10 = V5E3392 RRF20 = V5E3395
RRF50 = V5E3391 RRF100= V5E3394 RRF200= V5E3393

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane		1.842	2.096	2.067	2.253	2.466	2.145	10.8
Chloromethane		2.621	2.731	2.842	2.835	3.186	2.843	7.5
Vinyl Chloride	*	2.314	2.505	2.612	2.685	2.929	2.609	8.7*
Bromomethane	*	1.450	1.548	1.528	1.359	1.069	1.391	14.0*
Chloroethane		1.215	1.269	1.365	1.270	1.095	1.243	7.9
Trichlorofluoromethane		1.629	1.804	1.894	2.172	2.319	1.964	14.2
1,1-Dichloroethene	*	1.409	1.630	1.690	1.638	1.821	1.638	9.1*
1,1,2-Trichloro-1,2,2-trifluoroethane		1.231	1.616	1.567	1.477	1.562	1.491	10.3
Acetone		1.115	0.990	1.071	0.910	1.125	1.042	8.8
Carbon Disulfide		5.236	6.015	6.176	5.924	6.564	5.983	8.1
Methyl Acetate		1.456	1.619	1.570	1.581	1.858	1.617	9.1
Methylene Chloride		1.889	3.925	2.377	2.383	2.258	2.566	30.6
trans-1,2-Dichloroethene		1.525	1.742	1.782	1.664	1.830	1.709	7.0
Methyl tert-Butyl Ether		4.189	5.010	4.895	4.782	5.343	4.844	8.7
1,1-Dichloroethane	*	3.131	3.479	3.547	3.305	3.603	3.413	5.7*
cis-1,2-Dichloroethene		1.632	1.807	1.851	1.733	1.914	1.787	6.1
2-Butanone		1.231	1.237	1.238	1.229	1.512	1.289	9.7
Chloroform	*	2.789	3.101	3.081	2.862	3.133	2.993	5.2*
1,1,1-Trichloroethane	*	0.327	0.374	0.363	0.357	0.400	0.364	7.3*
Cyclohexane		0.456	0.563	0.557	0.572	0.665	0.563	13.1
Carbon Tetrachloride	*	0.301	0.364	0.355	0.354	0.411	0.357	11.0*
Benzene	*	1.178	1.340	1.312	1.266	1.421	1.303	6.9*
1,2-Dichloroethane	*	2.089	2.391	2.367	2.224	2.399	2.294	5.9*
Trichloroethene	*	0.276	0.309	0.310	0.290	0.333	0.304	7.1*
Methylcyclohexane		0.432	0.517	0.507	0.506	0.595	0.511	11.3

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

6B
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Instrument ID: V5 Calibration Date(s): 01/28/03 01/28/03

Heated Purge: (Y/N) Y Calibration Times: 1054 1302

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

LAB FILE ID: RRF10 = V5E3392 RRF20 = V5E3395
RRF50 = V5E3391 RRF100= V5E3394 RRF200= V5E3393

COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloropropane		0.348	0.380	0.369	0.352	0.389	0.368	4.8
Bromodichloromethane	*	0.355	0.404	0.396	0.385	0.440	0.396	7.8*
cis-1,3-Dichloropropene	*	0.470	0.532	0.539	0.522	0.595	0.532	8.4*
4-Methyl-2-Pentanone		0.454	0.494	0.395	0.438	0.479	0.452	8.5
Toluene	*	1.295	1.440	1.425	1.365	1.499	1.405	5.5*
trans-1,3-Dichloropropene	*	0.411	0.482	0.481	0.468	0.534	0.475	9.2*
1,1,2-Trichloroethane	*	0.241	0.275	0.263	0.254	0.289	0.264	7.0*
Tetrachloroethene	*	0.229	0.269	0.267	0.256	0.289	0.262	8.4*
2-Hexanone		0.420	0.440	0.304	0.364	0.385	0.383	13.8
Dibromochloromethane	*	0.293	0.328	0.331	0.320	0.372	0.329	8.7*
1,2-Dibromoethane		0.291	0.337	0.334	0.327	0.368	0.331	8.3
Chlorobenzene	*	0.921	1.028	0.986	0.927	1.022	0.977	5.2*
Ethylbenzene	*	0.429	0.490	0.487	0.464	0.510	0.476	6.5*
Xylene (Total)	*	0.533	0.605	0.594	0.567	0.612	0.582	5.6*
Styrene	*	0.758	0.892	0.892	0.857	0.932	0.866	7.6*
Bromoform	*	0.178	0.212	0.218	0.216	0.259	0.217	13.2*
Isopropylbenzene		1.348	1.533	1.549	1.462	1.651	1.509	7.4
1,1,2,2-Tetrachloroethane	*	0.356	0.434	0.400	0.424	0.496	0.422	12.1*
1,3-Dichlorobenzene	*	0.591	0.699	0.703	0.727	0.812	0.706	11.2*
1,4-Dichlorobenzene	*	0.582	0.701	0.698	0.728	0.821	0.706	12.1*
1,2-Dichlorobenzene	*	0.551	0.643	0.636	0.683	0.748	0.652	11.0*
1,2-Dibromo-3-chloropropane		0.044	0.055	0.052	0.066	0.084	0.060	26.1
1,2,4-Trichlorobenzene	*	0.235	0.295	0.269	0.357	0.413	0.314	22.7*
Toluene-d8		1.091	1.199	1.215	1.171	1.226	1.180	4.6
Bromofluorobenzene	*	0.467	0.535	0.524	0.520	0.543	0.518	5.8*
1,2-Dichloroethane-d4		1.857	1.999	1.943	1.878	1.951	1.926	3.0

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

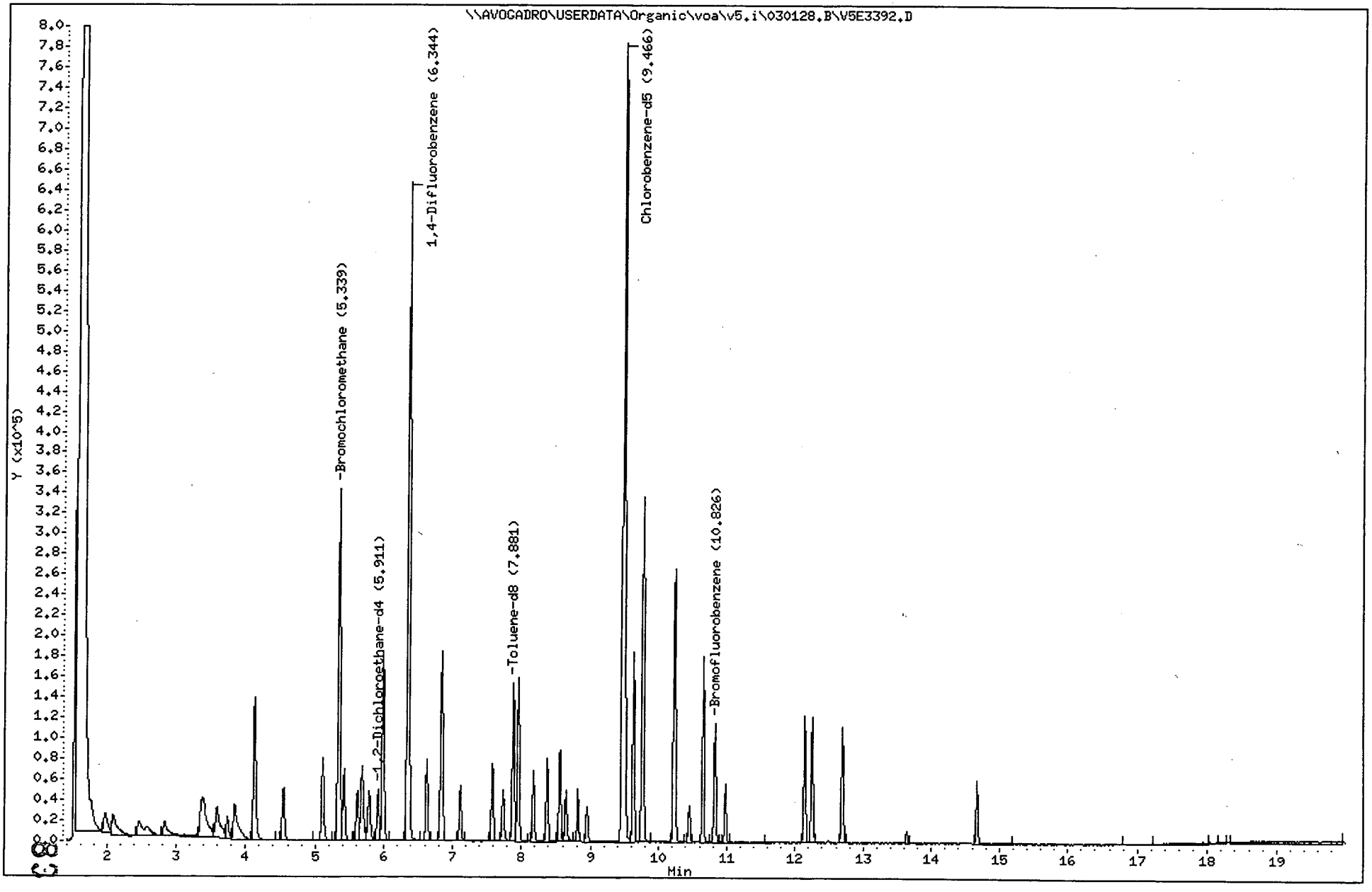
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Date : 28-JAN-2003 11:29
Client ID: VSTD0105X
Sample Info: OLM,V5S0128B,VSTD0105X

Column phase: DB-624

Instrument: v5.i

Operator: AN
Column diameter: 0.25

COPY
Original Documents Are Included in CSF YORY8
Signed: SB **Date:** 2/10/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Lab Smp Id: V5S0128B
Client Smp ID: VSTD0105X
Inj Date : 28-JAN-2003 11:29
Operator : AN
Inst ID: v5.i
Smp Info : OLM,V5S0128B,VSTD0105X
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl
Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54
Cal File: V5E3391.D
Als bottle: 2
Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.754	1.777	(0.329)	39179	10.0000	9(a)
2 Chloromethane	50	1.961	1.984	(0.367)	55727	10.0000	10
3 Vinyl Chloride	62	2.079	2.102	(0.389)	49196	10.0000	9(a)
4 Bromomethane	94	2.454	2.486	(0.460)	30836	10.0000	10
5 Chloroethane	64	2.572	2.595	(0.482)	25826	10.0000	9(a)
6 Trichlorofluoromethane	101	2.828	2.851	(0.530)	34636	10.0000	9(a)
7 1,1-Dichloroethene	96	3.370	3.383	(0.631)	29970	10.0000	9(a)
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.389	3.412	(0.635)	26169	10.0000	9(a)
9 Acetone	43	3.399	3.412	(0.637)	23719	10.0000	10
10 Carbon Disulfide	76	3.596	3.609	(0.673)	111336	10.0000	9(a)
11 Methyl Acetate	43	3.744	3.757	(0.701)	30971	10.0000	10
12 Methylene Chloride	84	3.842	3.855	(0.720)	40178	10.0000	9(a)
13 trans-1,2-Dichloroethene	96	4.128	4.141	(0.773)	32421	10.0000	9(a)
14 Methyl tert-Butyl Ether	73	4.128	4.141	(0.773)	89071	10.0000	9(a)
15 1,1-Dichloroethane	63	4.542	4.545	(0.851)	66587	10.0000	9(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3392.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.113	5.116	(0.958)	26179	10.0000	10
	17 cis-1,2-Dichloroethene	96	5.103	5.116	(0.956)	34708	10.0000	9(a)
*	18 Bromochloromethane	128	5.340	5.353	(1.000)	106322	50.0000	
	19 Chloroform	83	5.418	5.421	(1.015)	59306	10.0000	10
	20 1,1,1-Trichloroethane	97	5.615	5.618	(0.885)	38527	10.0000	9(a)
	21 Cyclohexane	56	5.674	5.687	(0.894)	53814	10.0000	9(a)
	22 Carbon Tetrachloride	117	5.783	5.786	(0.912)	35489	10.0000	9(a)
$	23 1,2-Dichloroethane-d4	65	5.911	5.914	(1.107)	39484	10.0000	10
	24 1,2-Dichloroethane	62	5.989	5.993	(1.122)	44431	10.0000	9(a)
	25 Benzene	78	5.980	5.983	(0.943)	138847	10.0000	9(a)
*	26 1,4-Difluorobenzene	114	6.344	6.347	(1.000)	589524	50.0000	
	27 Trichloroethene	130	6.620	6.633	(1.043)	32488	10.0000	9(a)
	28 Methylcyclohexane	83	6.837	6.840	(1.078)	50986	10.0000	9(a)
	29 1,2-Dichloropropane	63	6.846	6.850	(1.079)	40998	10.0000	10(T)
	30 Bromodichloromethane	83	7.122	7.125	(1.123)	41843	10.0000	9(a)
	31 cis-1,3-Dichloropropene	75	7.585	7.588	(1.196)	55471	10.0000	9(a)
	32 4-Methyl-2-Pentanone	43	7.743	7.736	(0.818)	48872	10.0000	11
$	33 Toluene-d8	98	7.881	7.884	(0.832)	117490	10.0000	9(a)
	34 Toluene	91	7.950	7.953	(0.840)	139408	10.0000	10
	35 trans-1,3-Dichloropropene	75	8.176	8.169	(1.289)	48492	10.0000	9(a)
	36 1,1,2-Trichloroethane	97	8.373	8.376	(1.320)	28438	10.0000	10
	37 Tetrachloroethene	164	8.560	8.563	(0.904)	24658	10.0000	9(a)
	38 2-Hexanone	43	8.639	8.642	(0.913)	45181	10.0000	12
	39 Dibromochloromethane	129	8.816	8.819	(1.390)	34510	10.0000	9(Ta)
	40 1,2-Dibromoethane	107	8.954	8.948	(0.946)	31376	10.0000	9(a)
M	41 Xylene (Total)	106				176644	10.0000	29
*	42 Chlorobenzene-d5	117	9.466	9.470	(1.000)	538445	50.0000	
	43 Chlorobenzene	112	9.506	9.499	(1.004)	99132	10.0000	10
	44 Ethylbenzene	106	9.624	9.627	(1.017)	46171	10.0000	9(a)
	45 m,p-Xylene	106	9.762	9.755	(1.031)	119258	20.0000	19
	46 o-Xylene	106	10.215	10.218	(1.079)	57385	10.0000	9(a)
	47 Styrene	104	10.225	10.228	(1.080)	81652	10.0000	9(a)
	48 Bromoform	173	10.442	10.445	(1.646)	20988	10.0000	9(a)
	49 Isopropylbenzene	105	10.648	10.642	(1.125)	145140	10.0000	9(a)
$	50 Bromofluorobenzene	95	10.826	10.829	(1.144)	50268	10.0000	9(a)
	51 1,1,2,2-Tetrachloroethane	83	10.983	10.986	(1.160)	38390	10.0000	9(a)
	52 1,3-Dichlorobenzene	146	12.136	12.139	(1.282)	63596	10.0000	9(a)
	53 1,4-Dichlorobenzene	146	12.244	12.247	(1.293)	62651	10.0000	9(a)
	54 1,2-Dichlorobenzene	146	12.697	12.700	(1.341)	59345	10.0000	9(a)
	55 1,2-Dibromo-3-chloropropane	75	13.643	13.636	(1.441)	4687	10.0000	9(a)
	56 1,2,4-Trichlorobenzene	180	14.677	14.680	(1.550)	25299	10.0000	9(a)

QC Flag Legend

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

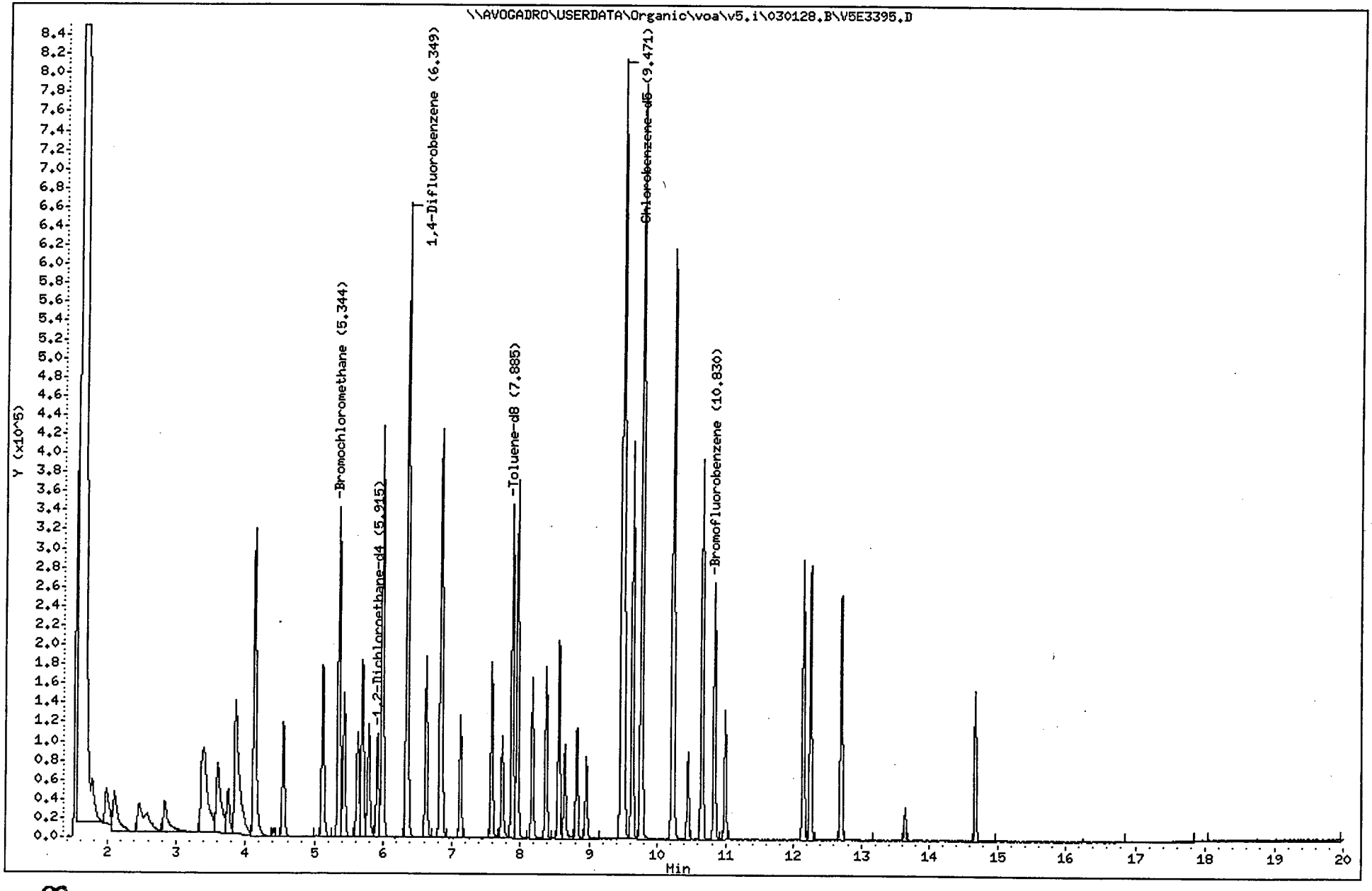
SB 2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Date : 28-JAN-2003 13:02
Client ID: VSTD0205X
Sample Info: OLM,V5S0128E,VSTD0205X

Instrument: v5.i

Operator: AN
Column diameter: 0.25

Column phase: DB-624



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Lab Smp Id: V5S0128E Client Smp ID: VSTD0205X
Inj Date : 28-JAN-2003 13:02
Operator : AN Inst ID: v5.i
Smp Info : OLM,V5S0128E,VSTD0205X
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54 Cal File: V5E3391.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.759	1.777	(0.329)	91669	20.0000	20
2 Chloromethane	50	1.966	1.984	(0.368)	119466	20.0000	19
3 Vinyl Chloride	62	2.094	2.102	(0.392)	109544	20.0000	19
4 Bromomethane	94	2.478	2.486	(0.464)	67703	20.0000	22
5 Chloroethane	64	2.586	2.595	(0.484)	55510	20.0000	20
6 Trichlorofluoromethane	101	2.842	2.851	(0.532)	78889	20.0000	18
7 1,1-Dichloroethene	96	3.374	3.383	(0.631)	71309	20.0000	20
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.394	3.412	(0.635)	70660	20.0000	22
9 Acetone	43	3.413	3.412	(0.639)	43310	20.0000	19
10 Carbon Disulfide	76	3.601	3.609	(0.674)	263080	20.0000	20
11 Methyl Acetate	43	3.748	3.757	(0.701)	70793	20.0000	20
12 Methylene Chloride	84	3.847	3.855	(0.720)	171688	20.0000	31
13 trans-1,2-Dichloroethene	96	4.132	4.141	(0.773)	76192	20.0000	20
14 Methyl tert-Butyl Ether	73	4.132	4.141	(0.773)	219120	20.0000	21
15 1,1-Dichloroethane	63	4.536	4.545	(0.849)	152171	20.0000	20

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3395.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.117	5.116	(0.958)	54088	20.0000	19
	17 cis-1,2-Dichloroethene	96	5.107	5.116	(0.956)	79011	20.0000	20
*	18 Bromochloromethane	128	5.344	5.353	(1.000)	109342	50.0000	
	19 Chloroform	83	5.423	5.421	(1.015)	135623	20.0000	21
	20 1,1,1-Trichloroethane	97	5.620	5.618	(0.885)	89477	20.0000	21
	21 Cyclohexane	56	5.679	5.687	(0.895)	134439	20.0000	20
	22 Carbon Tetrachloride	117	5.787	5.786	(0.912)	87035	20.0000	20
$	23 1,2-Dichloroethane-d4	65	5.915	5.914	(1.107)	87428	20.0000	21
	24 1,2-Dichloroethane	62	5.984	5.993	(1.120)	104581	20.0000	21
	25 Benzene	78	5.984	5.983	(0.943)	320174	20.0000	21
*	26 1,4-Difluorobenzene	114	6.349	6.347	(1.000)	597468	50.0000	
	27 Trichloroethene	130	6.624	6.633	(1.043)	73874	20.0000	20
	28 Methylcyclohexane	83	6.831	6.840	(1.076)	123669	20.0000	20
	29 1,2-Dichloropropane	63	6.851	6.850	(1.079)	90792	20.0000	21
	30 Bromodichloromethane	83	7.127	7.125	(1.123)	96604	20.0000	20
	31 cis-1,3-Dichloropropene	75	7.590	7.588	(1.195)	127082	20.0000	20
	32 4-Methyl-2-Pentanone	43	7.737	7.736	(0.817)	106244	20.0000	22
$	33 Toluene-d8	98	7.885	7.884	(0.833)	257959	20.0000	20
	34 Toluene	91	7.954	7.953	(0.840)	309863	20.0000	21
	35 trans-1,3-Dichloropropene	75	8.171	8.169	(1.287)	115301	20.0000	20
	36 1,1,2-Trichloroethane	97	8.378	8.376	(1.320)	65802	20.0000	21
	37 Tetrachloroethene	164	8.565	8.563	(0.904)	57816	20.0000	21
	38 2-Hexanone	43	8.643	8.642	(0.913)	94682	20.0000	23
	39 Dibromochloromethane	129	8.821	8.819	(1.389)	78269	20.0000	20
	40 1,2-Dibromoethane	107	8.949	8.948	(0.945)	72518	20.0000	20
M	41 Xylene (Total)	106				395582	20.0000	63
*	42 Chlorobenzene-d5	117	9.471	9.470	(1.000)	537919	50.0000	
	43 Chlorobenzene	112	9.500	9.499	(1.003)	221294	20.0000	21
	44 Ethylbenzene	106	9.629	9.627	(1.017)	105486	20.0000	21
	45 m,p-Xylene	106	9.757	9.755	(1.030)	265380	40.0000	41
	46 o-Xylene	106	10.219	10.218	(1.079)	130202	20.0000	21
	47 Styrene	104	10.229	10.228	(1.080)	191988	20.0000	21
	48 Bromoform	173	10.446	10.445	(1.645)	50675	20.0000	20
	49 Isopropylbenzene	105	10.653	10.642	(1.125)	329917	20.0000	20
$	50 Bromofluorobenzene	95	10.830	10.829	(1.144)	115149	20.0000	21
	51 1,1,2,2-Tetrachloroethane	83	10.988	10.986	(1.160)	93426	20.0000	21
	52 1,3-Dichlorobenzene	146	12.140	12.139	(1.282)	150436	20.0000	20
	53 1,4-Dichlorobenzene	146	12.248	12.247	(1.293)	150842	20.0000	20
	54 1,2-Dichlorobenzene	146	12.702	12.700	(1.341)	138347	20.0000	20
	55 1,2-Dibromo-3-chloropropane	75	13.637	13.636	(1.440)	11900	20.0000	18
	56 1,2,4-Trichlorobenzene	180	14.681	14.680	(1.550)	63492	20.0000	19

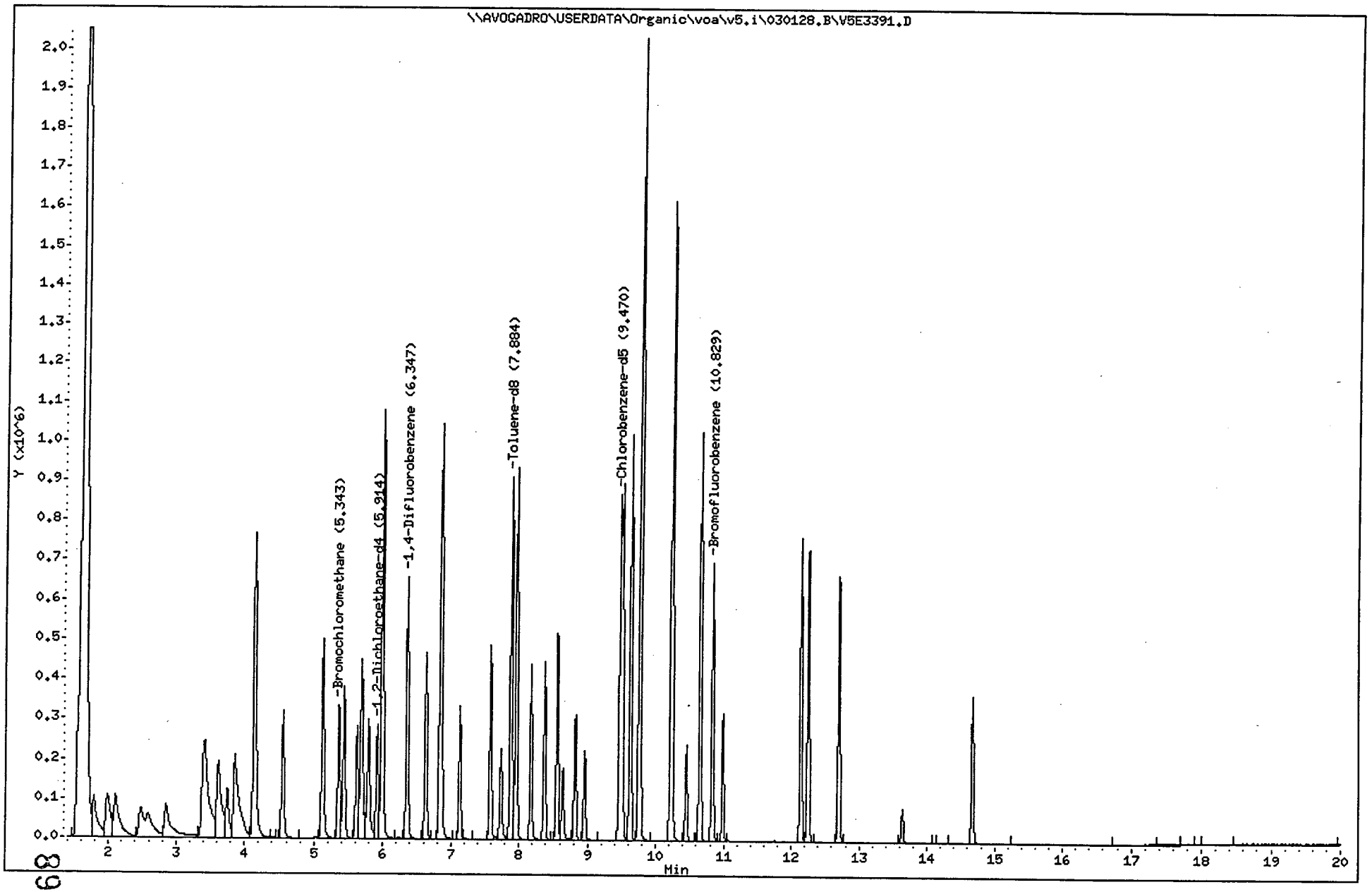
SB
2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Date : 28-JAN-2003 10:54
Client ID: VSTD0505X
Sample Info: OLM,V5S0128A,VSTD0505X

Instrument: v5.i

Operator: AN
Column diameter: 0.25

Column phase: DB-624



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Lab Smp Id: V5S0128A Client Smp ID: VSTD0505X
Inj Date : 28-JAN-2003 10:54
Operator : AN Inst ID: v5.i
Smp Info : OLM,V5S0128A,VSTD0505X
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54 Cal File: V5E3391.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.777	1.777	(0.332)	228413	50.0000	50
2 Chloromethane	50	1.984	1.984	(0.371)	314052	50.0000	50
3 Vinyl Chloride	62	2.102	2.102	(0.393)	288616	50.0000	50
4 Bromomethane	94	2.486	2.486	(0.465)	168906	50.0000	50
5 Chloroethane	64	2.595	2.595	(0.485)	150872	50.0000	50
6 Trichlorofluoromethane	101	2.851	2.851	(0.533)	209316	50.0000	50
7 1,1-Dichloroethene	96	3.383	3.383	(0.632)	186754	50.0000	50
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.412	3.412	(0.637)	173148	50.0000	50
9 Acetone	43	3.412	3.412	(0.637)	118312	50.0000	50
10 Carbon Disulfide	76	3.609	3.609	(0.674)	682540	50.0000	50
11 Methyl Acetate	43	3.757	3.757	(0.702)	173497	50.0000	50
12 Methylene Chloride	84	3.855	3.855	(0.720)	262650	50.0000	50
13 trans-1,2-Dichloroethene	96	4.141	4.141	(0.774)	196924	50.0000	50
14 Methyl tert-Butyl Ether	73	4.141	4.141	(0.774)	540946	50.0000	50
15 1,1-Dichloroethane	63	4.545	4.545	(0.849)	391963	50.0000	50

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3391.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.116	5.116	(0.956)	136809	50.0000	50
	17 cis-1,2-Dichloroethene	96	5.116	5.116	(0.956)	204594	50.0000	50
*	18 Bromochloromethane	128	5.353	5.353	(1.000)	110514	50.0000	
	19 Chloroform	83	5.421	5.421	(1.013)	340537	50.0000	50
	20 1,1,1-Trichloroethane	97	5.618	5.618	(0.885)	225443	50.0000	50
	21 Cyclohexane	56	5.687	5.687	(0.896)	346093	50.0000	50
	22 Carbon Tetrachloride	117	5.786	5.786	(0.912)	220806	50.0000	50
$	23 1,2-Dichloroethane-d4	65	5.914	5.914	(1.105)	214680	50.0000	50
	24 1,2-Dichloroethane	62	5.993	5.993	(1.120)	261564	50.0000	50
	25 Benzene	78	5.983	5.983	(0.943)	815907	50.0000	50
*	26 1,4-Difluorobenzene	114	6.347	6.347	(1.000)	621834	50.0000	
	27 Trichloroethene	130	6.633	6.633	(1.045)	192645	50.0000	50
	28 Methylcyclohexane	83	6.840	6.840	(1.078)	315258	50.0000	50
	29 1,2-Dichloropropane	63	6.850	6.850	(1.079)	229474	50.0000	50
	30 Bromodichloromethane	83	7.125	7.125	(1.123)	246157	50.0000	50
	31 cis-1,3-Dichloropropene	75	7.588	7.588	(1.196)	334885	50.0000	50
	32 4-Methyl-2-Pentanone	43	7.736	7.736	(0.817)	218272	50.0000	50
$	33 Toluene-d8	98	7.884	7.884	(0.833)	672001	50.0000	50
	34 Toluene	91	7.953	7.953	(0.840)	787798	50.0000	50
	35 trans-1,3-Dichloropropene	75	8.169	8.169	(1.287)	299340	50.0000	50
	36 1,1,2-Trichloroethane	97	8.376	8.376	(1.320)	163795	50.0000	50
	37 Tetrachloroethene	164	8.563	8.563	(0.904)	147611	50.0000	50
	38 2-Hexanone	43	8.642	8.642	(0.913)	168234	50.0000	50
	39 Dibromochloromethane	129	8.819	8.819	(1.389)	205753	50.0000	50
	40 1,2-Dibromoethane	107	8.948	8.948	(0.945)	184583	50.0000	50
M	41 Xylene (Total)	106				1006969	50.0000	150
*	42 Chlorobenzene-d5	117	9.470	9.470	(1.000)	552901	50.0000	
	43 Chlorobenzene	112	9.499	9.499	(1.003)	545419	50.0000	50
	44 Ethylbenzene	106	9.627	9.627	(1.017)	269517	50.0000	50
	45 m,p-Xylene	106	9.755	9.755	(1.030)	678525	100.000	100
	46 o-Xylene	106	10.218	10.218	(1.079)	328443	50.0000	50
	47 Styrene	104	10.228	10.228	(1.080)	493014	50.0000	50
	48 Bromoform	173	10.445	10.445	(1.646)	135367	50.0000	50
	49 Isopropylbenzene	105	10.642	10.642	(1.124)	856214	50.0000	50
$	50 Bromofluorobenzene	95	10.829	10.829	(1.144)	289444	50.0000	50
	51 1,1,2,2-Tetrachloroethane	83	10.986	10.986	(1.160)	221182	50.0000	50
	52 1,3-Dichlorobenzene	146	12.139	12.139	(1.282)	388840	50.0000	50
	53 1,4-Dichlorobenzene	146	12.247	12.247	(1.293)	386062	50.0000	50
	54 1,2-Dichlorobenzene	146	12.700	12.700	(1.341)	351506	50.0000	50
	55 1,2-Dibromo-3-chloropropane	75	13.636	13.636	(1.440)	28727	50.0000	50
	56 1,2,4-Trichlorobenzene	180	14.680	14.680	(1.550)	148567	50.0000	50

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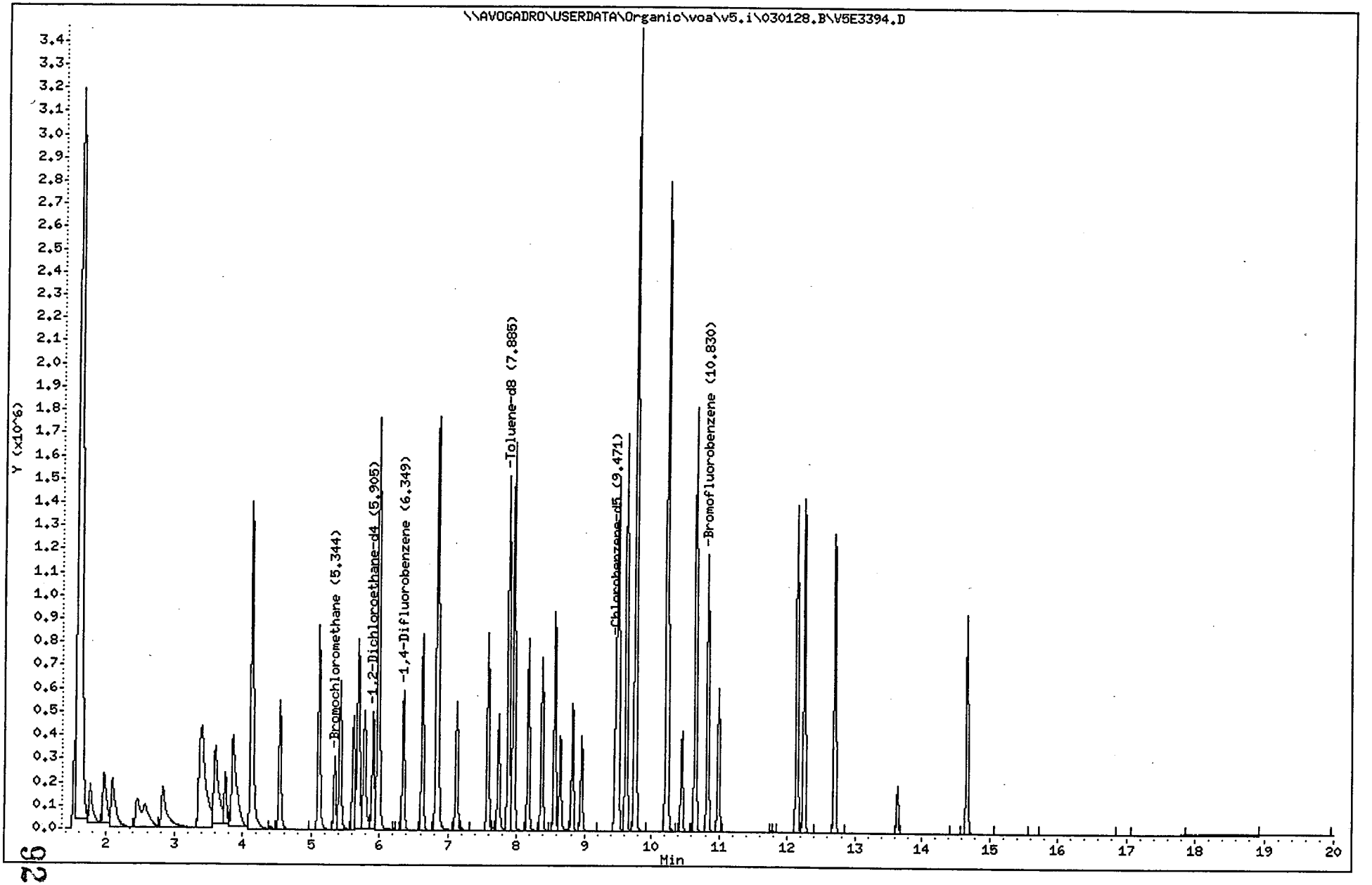
2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Date : 28-JAN-2003 12:33
Client ID: VSTD1005X
Sample Info: OLM,V5S0128D,VSTD1005X

Column phase: DB-624

Instrument: v5.i

Operator: AN
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Lab Smp Id: V5S0128D Client Smp ID: VSTD1005X
Inj Date : 28-JAN-2003 12:33
Operator : AN Inst ID: v5.i
Smp Info : OLM,V5S0128D,VSTD1005X
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54 Cal File: V5E3391.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.749	1.777	(0.327)	456986	100.000	100
2 Chloromethane	50	1.956	1.984	(0.366)	574989	100.000	99
3 Vinyl Chloride	62	2.084	2.102	(0.390)	544692	100.000	100
4 Bromomethane	94	2.448	2.486	(0.458)	275696	100.000	100
5 Chloroethane	64	2.576	2.595	(0.482)	257522	100.000	100
6 Trichlorofluoromethane	101	2.832	2.851	(0.530)	440633	100.000	110
7 1,1-Dichloroethene	96	3.364	3.383	(0.630)	332265	100.000	100
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.394	3.412	(0.635)	299656	100.000	100
9 Acetone	43	3.404	3.412	(0.637)	184523	100.000	86
10 Carbon Disulfide	76	3.591	3.609	(0.672)	1201691	100.000	99
11 Methyl Acetate	43	3.739	3.757	(0.700)	320661	100.000	98
12 Methylene Chloride	84	3.847	3.855	(0.720)	483313	100.000	110
13 trans-1,2-Dichloroethene	96	4.123	4.141	(0.771)	337578	100.000	98
14 Methyl tert-Butyl Ether	73	4.132	4.141	(0.773)	970024	100.000	100
15 1,1-Dichloroethane	63	4.536	4.545	(0.849)	670388	100.000	97

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3394.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.107	5.116	(0.956)	249294	100.000	94
	17 cis-1,2-Dichloroethene	96	5.107	5.116	(0.956)	351513	100.000	97
*	18 Bromochloromethane	128	5.344	5.353	(1.000)	101422	50.0000	
	19 Chloroform	83	5.413	5.421	(1.013)	580508	100.000	96
	20 1,1,1-Trichloroethane	97	5.610	5.618	(0.884)	394509	100.000	99
	21 Cyclohexane	56	5.679	5.687	(0.895)	632256	100.000	100
	22 Carbon Tetrachloride	117	5.787	5.786	(0.912)	391493	100.000	100
$	23 1,2-Dichloroethane-d4	65	5.905	5.914	(1.105)	380960	100.000	98
	24 1,2-Dichloroethane	62	5.984	5.993	(1.120)	451191	100.000	98
	25 Benzene	78	5.974	5.983	(0.941)	1399423	100.000	98
*	26 1,4-Difluorobenzene	114	6.349	6.347	(1.000)	552774	50.0000	
	27 Trichloroethene	130	6.624	6.633	(1.043)	321025	100.000	96
	28 Methylcyclohexane	83	6.831	6.840	(1.076)	559655	100.000	99
	29 1,2-Dichloropropane	63	6.841	6.850	(1.078)	388615	100.000	96
	30 Bromodichloromethane	83	7.117	7.125	(1.121)	425751	100.000	98
	31 cis-1,3-Dichloropropene	75	7.590	7.588	(1.195)	577028	100.000	98
	32 4-Methyl-2-Pentanone	43	7.737	7.736	(0.817)	434626	100.000	99
$	33 Toluene-d8	98	7.885	7.884	(0.833)	1161487	100.000	100
	34 Toluene	91	7.954	7.953	(0.840)	1354016	100.000	98
	35 trans-1,3-Dichloropropene	75	8.171	8.169	(1.287)	517377	100.000	99
	36 1,1,2-Trichloroethane	97	8.378	8.376	(1.320)	280699	100.000	97
	37 Tetrachloroethene	164	8.555	8.563	(0.903)	254147	100.000	98
	38 2-Hexanone	43	8.634	8.642	(0.912)	361449	100.000	99
	39 Dibromochloromethane	129	8.811	8.819	(1.388)	353868	100.000	97
	40 1,2-Dibromoethane	107	8.949	8.948	(0.945)	323918	100.000	99
M	41 Xylene (Total)	106				1710553	100.000	300
*	42 Chlorobenzene-d5	117	9.471	9.470	(1.000)	495878	50.0000	
	43 Chlorobenzene	112	9.500	9.499	(1.003)	918912	100.000	96
	44 Ethylbenzene	106	9.629	9.627	(1.017)	459868	100.000	98
	45 m,p-Xylene	106	9.757	9.755	(1.030)	1148711	200.000	200
	46 o-Xylene	106	10.219	10.218	(1.079)	561841	100.000	98
	47 Styrene	104	10.229	10.228	(1.080)	850097	100.000	100
	48 Bromoform	173	10.446	10.445	(1.645)	239297	100.000	99
	49 Isopropylbenzene	105	10.643	10.642	(1.124)	1449653	100.000	97
$	50 Bromofluorobenzene	95	10.830	10.829	(1.144)	515719	100.000	100
	51 1,1,2,2-Tetrachloroethane	83	10.988	10.986	(1.160)	420851	100.000	100
	52 1,3-Dichlorobenzene	146	12.140	12.139	(1.282)	721159	100.000	100
	53 1,4-Dichlorobenzene	146	12.239	12.247	(1.292)	722332	100.000	100
	54 1,2-Dichlorobenzene	146	12.692	12.700	(1.340)	677730	100.000	100
	55 1,2-Dibromo-3-chloropropane	75	13.637	13.636	(1.440)	65131	100.000	110
	56 1,2,4-Trichlorobenzene	180	14.671	14.680	(1.549)	354515	100.000	110

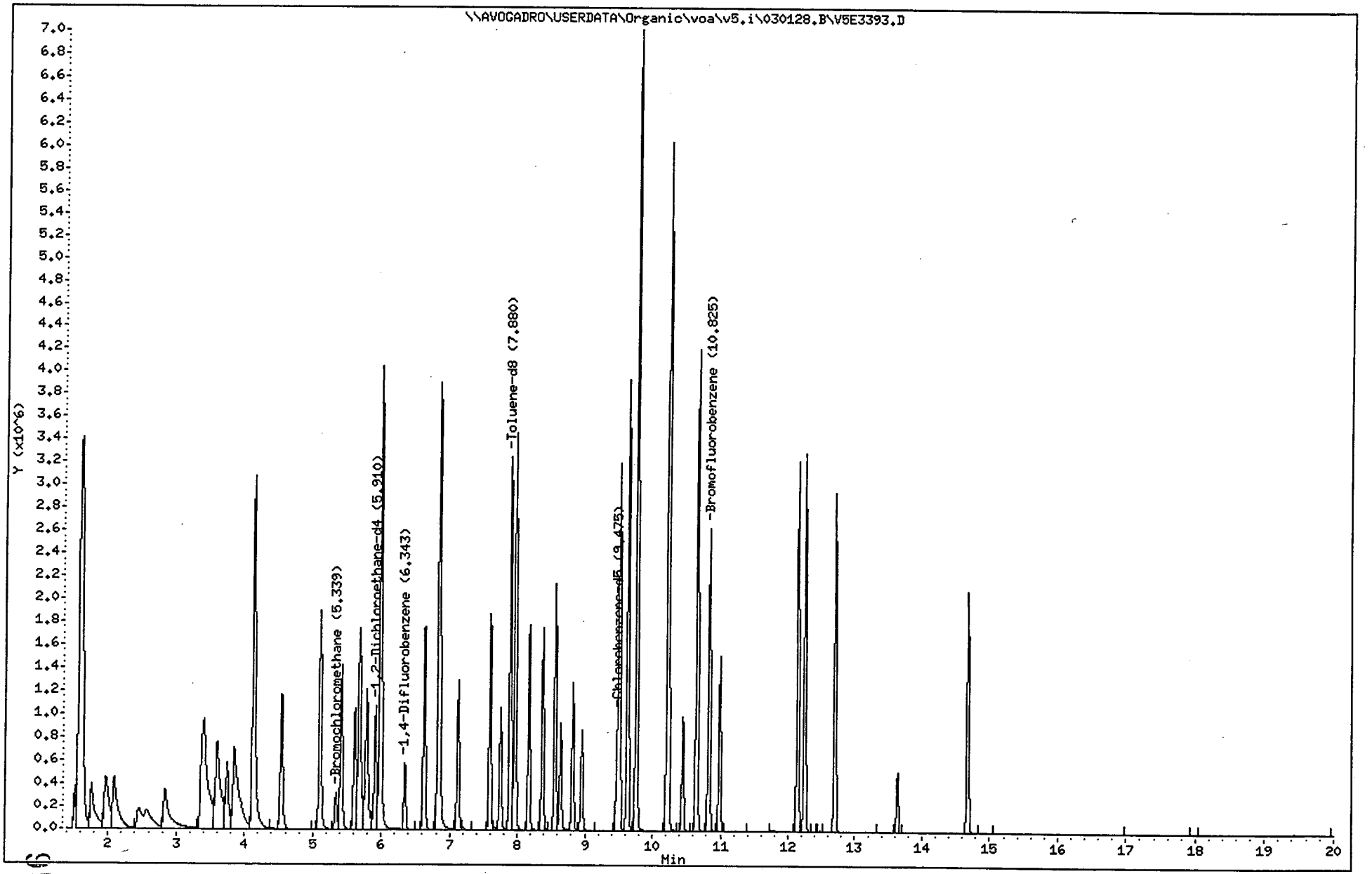
SB 2/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Date : 28-JAN-2003 12:04
Client ID: VSTD2005X
Sample Info: OLM,V5S0128C,VSTD2005X

Column phase: DB-624

Instrument: v5.i

Operator: AN
Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Report Date: 10-Feb-2003 15:33

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Lab Smp Id: V5S0128C
Client Smp ID: VSTD2005X
Inj Date : 28-JAN-2003 12:04
Operator : AN
Inst ID: v5.i
Smp Info : OLM,V5S0128C,VSTD2005X
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\v5clp4h.m
Meth Date : 28-Jan-2003 15:21 mtl
Quant Type: ISTD
Cal Date : 28-JAN-2003 10:54
Cal File: V5E3391.D
Als bottle: 3
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.753	1.777	(0.328)	1019145	200.000	230(A)
2 Chloromethane	50	1.960	1.984	(0.367)	1316552	200.000	220(A)
3 Vinyl Chloride	62	2.088	2.102	(0.391)	1210293	200.000	220(A)
4 Bromomethane	94	2.453	2.486	(0.459)	441754	200.000	160
5 Chloroethane	64	2.571	2.595	(0.482)	452648	200.000	180
6 Trichlorofluoromethane	101	2.827	2.851	(0.530)	958200	200.000	240(A)
7 1,1-Dichloroethene	96	3.369	3.383	(0.631)	752351	200.000	220(A)
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.388	3.412	(0.635)	645507	200.000	210(A)
9 Acetone	43	3.398	3.412	(0.637)	464971	200.000	200(A)
10 Carbon Disulfide	76	3.595	3.609	(0.673)	2712216	200.000	220(A)
11 Methyl Acetate	43	3.743	3.757	(0.701)	767703	200.000	230(A)
12 Methylene Chloride	84	3.841	3.855	(0.720)	932897	200.000	210(A)
13 trans-1,2-Dichloroethene	96	4.127	4.141	(0.773)	756234	200.000	210(A)
14 Methyl tert-Butyl Ether	73	4.127	4.141	(0.773)	2207817	200.000	220(A)
15 1,1-Dichloroethane	63	4.531	4.545	(0.849)	1488629	200.000	210(A)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3393.D
Report Date: 10-Feb-2003 15:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16 2-Butanone	43	5.112	5.116	(0.958)	624892	200.000	230(A)
	17 cis-1,2-Dichloroethene	96	5.112	5.116	(0.958)	791028	200.000	210(A)
*	18 Bromochloromethane	128	5.338	5.353	(1.000)	103303	50.0000	
	19 Chloroform	83	5.417	5.421	(1.015)	1294580	200.000	210(A)
	20 1,1,1-Trichloroethane	97	5.614	5.618	(0.885)	876784	200.000	220(A)
	21 Cyclohexane	56	5.683	5.687	(0.896)	1456143	200.000	240(A)
	22 Carbon Tetrachloride	117	5.782	5.786	(0.911)	901004	200.000	230(A)
$	23 1,2-Dichloroethane-d4	65	5.910	5.914	(1.107)	806165	200.000	200(A)
	24 1,2-Dichloroethane	62	5.989	5.993	(1.122)	991109	200.000	210(A)
	25 Benzene	78	5.979	5.983	(0.943)	3114037	200.000	220(A)
*	26 1,4-Difluorobenzene	114	6.343	6.347	(1.000)	547748	50.0000	
	27 Trichloroethene	130	6.629	6.633	(1.045)	728859	200.000	220(A)
	28 Methylcyclohexane	83	6.836	6.840	(1.078)	1302939	200.000	230(A)
	29 1,2-Dichloropropane	63	6.846	6.850	(1.079)	852454	200.000	210(A)
	30 Bromodichloromethane	83	7.121	7.125	(1.123)	964228	200.000	220(A)
	31 cis-1,3-Dichloropropene	75	7.584	7.588	(1.196)	1304616	200.000	220(A)
	32 4-Methyl-2-Pentanone	43	7.742	7.736	(0.817)	956734	200.000	220(A)
$	33 Toluene-d8	98	7.880	7.884	(0.832)	2448439	200.000	210(A)
	34 Toluene	91	7.958	7.953	(0.840)	2993391	200.000	210(A)
	35 trans-1,3-Dichloropropene	75	8.175	8.169	(1.289)	1169515	200.000	220(A)
	36 1,1,2-Trichloroethane	97	8.372	8.376	(1.320)	632370	200.000	220(A)
	37 Tetrachloroethene	164	8.559	8.563	(0.903)	577195	200.000	220(A)
	38 2-Hexanone	43	8.638	8.642	(0.912)	768053	200.000	210(A)
	39 Dibromochloromethane	129	8.815	8.819	(1.390)	815176	200.000	220(A)
	40 1,2-Dibromoethane	107	8.953	8.948	(0.945)	735381	200.000	220(A)
M	41 Xylene (Total)	106				3730641	200.000	640(A)
*	42 Chlorobenzene-d5	117	9.475	9.470	(1.000)	499312	50.0000	
	43 Chlorobenzene	112	9.505	9.499	(1.003)	2040261	200.000	210(A)
	44 Ethylbenzene	106	9.623	9.627	(1.016)	1018271	200.000	210(A)
	45 m,p-Xylene	106	9.761	9.755	(1.030)	2509199	400.000	420(A)
	46 o-Xylene	106	10.214	10.218	(1.078)	1221442	200.000	210(A)
	47 Styrene	104	10.234	10.228	(1.080)	1860462	200.000	220(A)
	48 Bromoform	173	10.441	10.445	(1.646)	566990	200.000	240(A)
	49 Isopropylbenzene	105	10.647	10.642	(1.124)	3296904	200.000	220(A)
$	50 Bromofluorobenzene	95	10.825	10.829	(1.142)	1084724	200.000	210(A)
	51 1,1,2,2-Tetrachloroethane	83	10.982	10.986	(1.159)	990143	200.000	240(A)
	52 1,3-Dichlorobenzene	146	12.135	12.139	(1.281)	1622056	200.000	230(A)
	53 1,4-Dichlorobenzene	146	12.243	12.247	(1.292)	1638815	200.000	230(A)
	54 1,2-Dichlorobenzene	146	12.696	12.700	(1.340)	1493832	200.000	230(A)
	55 1,2-Dibromo-3-chloropropane	75	13.642	13.636	(1.440)	168670	200.000	280(A)
	56 1,2,4-Trichlorobenzene	180	14.676	14.680	(1.549)	824122	200.000	270(A)

QC Flag Legend

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

SB 2/10/03

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Instrument ID: V5 Calibration Date: 03/25/03 Time: 1918

Lab File ID: V5E5111 Init. Calib. Date(s): 01/28/03 01/28/03

EPA Sample No.(VSTD050##): VSTD0505W Init. Calib. Times: 1054 1302

Heated Purge: (Y/N) Y

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

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	2.145	1.665		-22.4	
Chloromethane	2.843	2.066		-27.3	
Vinyl Chloride	2.609	2.050	0.100	-21.4	25.0
Bromomethane	1.391	1.423	0.100	2.3	25.0
Chloroethane	1.243	1.039		-16.4	
Trichlorofluoromethane	1.964	2.118		7.8	
1,1-Dichloroethene	1.638	1.927	0.100	17.6	25.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1.491	1.638		9.9	
Acetone	1.042	0.836		-19.8	
Carbon Disulfide	5.983	6.708		12.1	
Methyl Acetate	1.617	1.436		-11.2	
Methylene Chloride	2.566	2.713		5.7	
trans-1,2-Dichloroethene	1.709	2.147		25.6	
Methyl tert-Butyl Ether	4.844	4.268		-11.9	
1,1-Dichloroethane	3.413	3.438	0.200	0.7	25.0
cis-1,2-Dichloroethene	1.787	2.204		23.3	
2-Butanone	1.289	1.212		-6.0	
Chloroform	2.993	3.207	0.200	7.2	25.0
1,1,1-Trichloroethane	0.364	0.392	0.100	7.7	25.0
Cyclohexane	0.563	0.573		1.8	
Carbon Tetrachloride	0.357	0.335	0.100	-6.2	25.0
Benzene	1.303	1.343	0.500	3.1	25.0
1,2-Dichloroethane	2.294	2.060	0.100	-10.2	25.0
Trichloroethene	0.304	0.307	0.300	1.0	25.0
Methylcyclohexane	0.511	0.576		12.7	

All other compounds must meet a minimum RRF of 0.010.

7B
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Instrument ID: V5 Calibration Date: 03/25/03 Time: 1918

Lab File ID: V5E5111 Init. Calib. Date(s): 01/28/03 01/28/03

EPA Sample No.(VSTD050##): VSTD0505W Init. Calib. Times: 1054 1302

Heated Purge: (Y/N) Y

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

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
1,2-Dichloropropane	0.368	0.349		-5.2		
Bromodichloromethane	0.396	0.396	0.200	0.0	25.0	
cis-1,3-Dichloropropene	0.532	0.507	0.200	-4.7	25.0	
4-Methyl-2-Pentanone	0.452	0.355		-21.5		
Toluene	1.405	1.587	0.400	13.0	25.0	
trans-1,3-Dichloropropene	0.475	0.442	0.100	-6.9	25.0	
1,1,2-Trichloroethane	0.264	0.294	0.100	11.4	25.0	
Tetrachloroethene	0.262	0.320	0.200	22.1	25.0	
2-Hexanone	0.383	0.282		-26.4		
Dibromochloromethane	0.329	0.326	0.100	-0.9	25.0	
1,2-Dibromoethane	0.331	0.367		10.9		
Chlorobenzene	0.977	1.052	0.500	7.7	25.0	
Ethylbenzene	0.476	0.538	0.100	13.0	25.0	
Xylene (Total)	0.582	0.643	0.300	10.5	25.0	
Styrene	0.866	0.952	0.300	9.9	25.0	
Bromoform	0.217	0.232	0.100	6.9	25.0	
Isopropylbenzene	1.509	1.648		9.2		
1,1,2,2-Tetrachloroethane	0.422	0.485	0.300	14.9	25.0	
1,3-Dichlorobenzene	0.706	0.809	0.600	14.6	25.0	
1,4-Dichlorobenzene	0.706	0.820	0.500	16.1	25.0	
1,2-Dichlorobenzene	0.652	0.740	0.400	13.5	25.0	
1,2-Dibromo-3-chloropropane	0.060	0.059		-1.7		
1,2,4-Trichlorobenzene	0.314	0.401	0.200	27.7	25.0	<-
Toluene-d8	1.180	1.257		6.5		
Bromofluorobenzene	0.518	0.501	0.200	-3.3	25.0	
1,2-Dichloroethane-d4	1.926	1.493		-22.5		

All other compounds must meet a minimum RRF of 0.010.

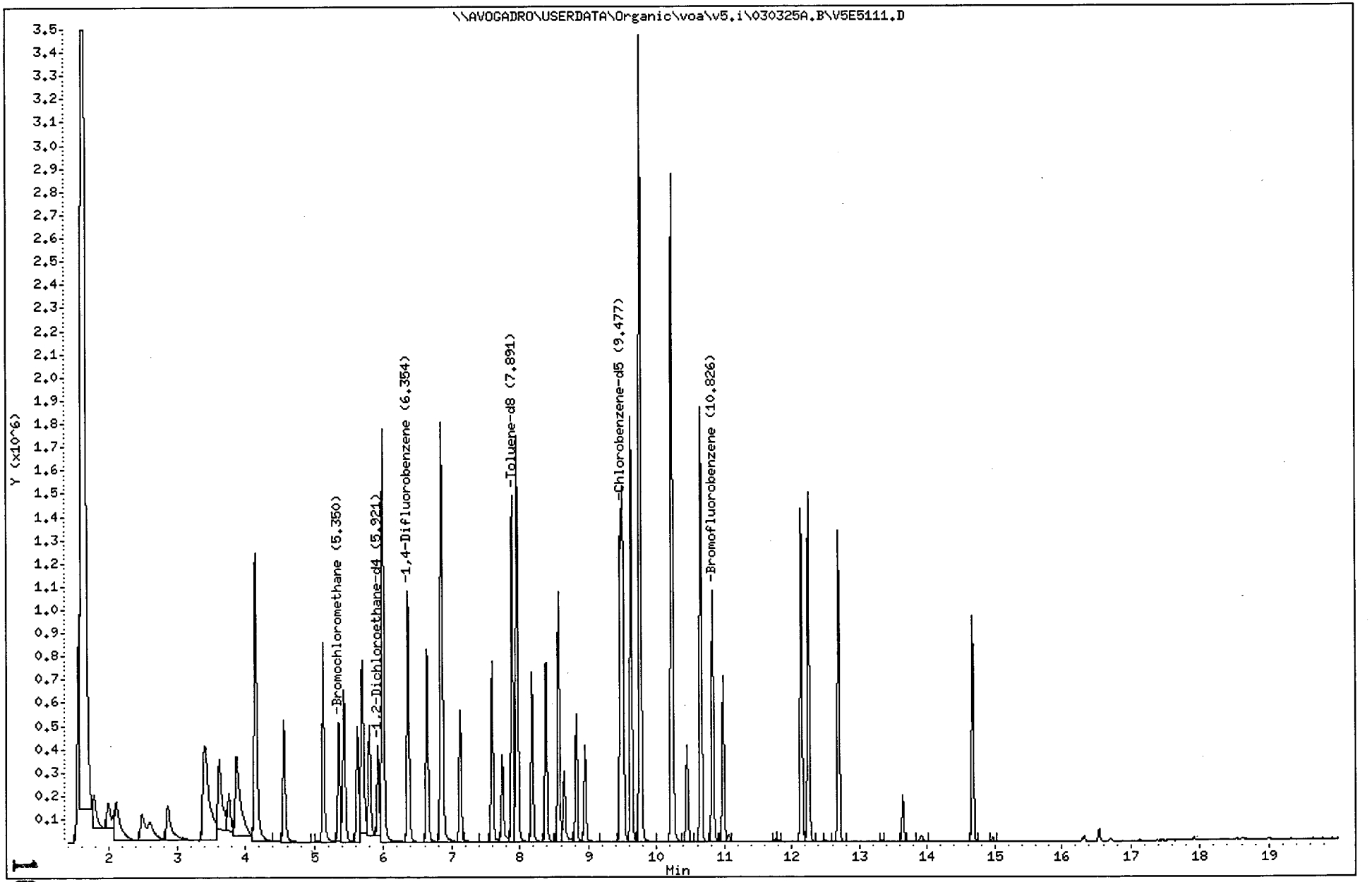
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5111.D
Date : 25-MAR-2003 19:18
Client ID: VSTD0505W
Sample Info: OLM,V5S0325B,VSTD0505W

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5111.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5111.D
Lab Smp Id: V5S0325B Client Smp ID: VSTD0505W
Inj Date : 25-MAR-2003 19:18
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5S0325B,VSTD0505W
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 35 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.784	1.784	(0.333)	316662	50.0000	39
2 Chloromethane	50	1.981	1.981	(0.370)	392864	50.0000	36
3 Vinyl Chloride	62	2.109	2.109	(0.394)	389836	50.0000	39
4 Bromomethane	94	2.483	2.483	(0.463)	270665	50.0000	51
5 Chloroethane	64	2.602	2.602	(0.485)	197665	50.0000	42
6 Trichlorofluoromethane	101	2.858	2.858	(0.533)	402766	50.0000	54
7 1,1-Dichloroethene	96	3.390	3.390	(0.632)	366413	50.0000	59
8 1,1,2-Trichloro-1,2,2-trifluo	101	3.419	3.419	(0.638)	311490	50.0000	55
9 Acetone	43	3.419	3.419	(0.638)	159083	50.0000	40
10 Carbon Disulfide	76	3.616	3.616	(0.675)	1275831	50.0000	56
11 Methyl Acetate	43	3.764	3.764	(0.702)	273181	50.0000	44
12 Methylene Chloride	84	3.872	3.872	(0.722)	516031	50.0000	53
13 trans-1,2-Dichloroethene	96	4.148	4.148	(0.774)	408231	50.0000	63
14 Methyl tert-Butyl Ether	73	4.148	4.148	(0.774)	811740	50.0000	44
15 1,1-Dichloroethane	63	4.552	4.552	(0.849)	653845	50.0000	50

Data File: V5E5111.D
Report Date: 03-Apr-2003 10:02

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	16	2-Butanone	43	5.123	5.123	(0.956)	230595	50.0000	47
	17	cis-1,2-Dichloroethene	96	5.123	5.123	(0.956)	419092	50.0000	62
*	18	Bromochloromethane	128	5.359	5.359	(1.000)	190184	50.0000	
	19	Chloroform	83	5.428	5.428	(1.013)	609902	50.0000	54
	20	1,1,1-Trichloroethane	97	5.625	5.625	(0.885)	430576	50.0000	54
	21	Cyclohexane	56	5.694	5.694	(0.896)	629501	50.0000	51
	22	Carbon Tetrachloride	117	5.793	5.793	(0.912)	367614	50.0000	47
$	23	1,2-Dichloroethane-d4	65	5.921	5.921	(1.105)	283926	50.0000	39
	24	1,2-Dichloroethane	62	6.000	6.000	(1.119)	391700	50.0000	45
	25	Benzene	78	5.990	5.990	(0.943)	1474161	50.0000	52
*	26	1,4-Difluorobenzene	114	6.354	6.354	(1.000)	1098055	50.0000	
	27	Trichloroethene	130	6.630	6.630	(1.043)	337650	50.0000	51
	28	Methylcyclohexane	83	6.847	6.847	(1.078)	632444	50.0000	56
	29	1,2-Dichloropropane	63	6.857	6.857	(1.079)	383083	50.0000	47
	30	Bromodichloromethane	83	7.132	7.132	(1.122)	434514	50.0000	50
	31	cis-1,3-Dichloropropene	75	7.595	7.595	(1.195)	556534	50.0000	48
	32	4-Methyl-2-Pentanone	43	7.743	7.743	(0.817)	344988	50.0000	39
$	33	Toluene-d8	98	7.891	7.891	(0.833)	1221529	50.0000	53
	34	Toluene	91	7.960	7.960	(0.840)	1541772	50.0000	56
	35	trans-1,3-Dichloropropene	75	8.177	8.177	(1.287)	485818	50.0000	47
	36	1,1,2-Trichloroethane	97	8.383	8.383	(1.319)	322816	50.0000	56
	37	Tetrachloroethene	164	8.561	8.561	(0.903)	310479	50.0000	61
	38	2-Hexanone	43	8.639	8.639	(0.912)	274198	50.0000	37
	39	Dibromochloromethane	129	8.817	8.817	(1.388)	357945	50.0000	50
	40	1,2-Dibromoethane	107	8.955	8.955	(0.945)	356797	50.0000	55
M	41	Xylene (Total)	106				1926212	50.0000	170
*	42	Chlorobenzene-d5	117	9.477	9.477	(1.000)	971511	50.0000	
	43	Chlorobenzene	112	9.506	9.506	(1.003)	1022486	50.0000	54
	44	Ethylbenzene	106	9.624	9.624	(1.016)	522257	50.0000	56
	45	m,p-Xylene	106	9.762	9.762	(1.030)	1301294	100.000	110
	46	o-Xylene	106	10.215	10.215	(1.078)	624918	50.0000	55
	47	Styrene	104	10.235	10.235	(1.080)	924944	50.0000	55
	48	Bromoform	173	10.442	10.442	(1.643)	254941	50.0000	54
	49	Isopropylbenzene	105	10.649	10.649	(1.124)	1601490	50.0000	55
$	50	Bromofluorobenzene	95	10.826	10.826	(1.142)	486998	50.0000	48
	51	1,1,2,2-Tetrachloroethane	83	10.984	10.984	(1.159)	471139	50.0000	57
	52	1,3-Dichlorobenzene	146	12.136	12.136	(1.281)	785860	50.0000	57
	53	1,4-Dichlorobenzene	146	12.244	12.244	(1.292)	796425	50.0000	58
	54	1,2-Dichlorobenzene	146	12.697	12.697	(1.340)	719029	50.0000	57
	55	1,2-Dibromo-3-chloropropane	75	13.643	13.643	(1.440)	57235	50.0000	49
	56	1,2,4-Trichlorobenzene	180	14.677	14.677	(1.549)	389166	50.0000	64

SB 4/3/03 KL

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

Instrument: v5.i

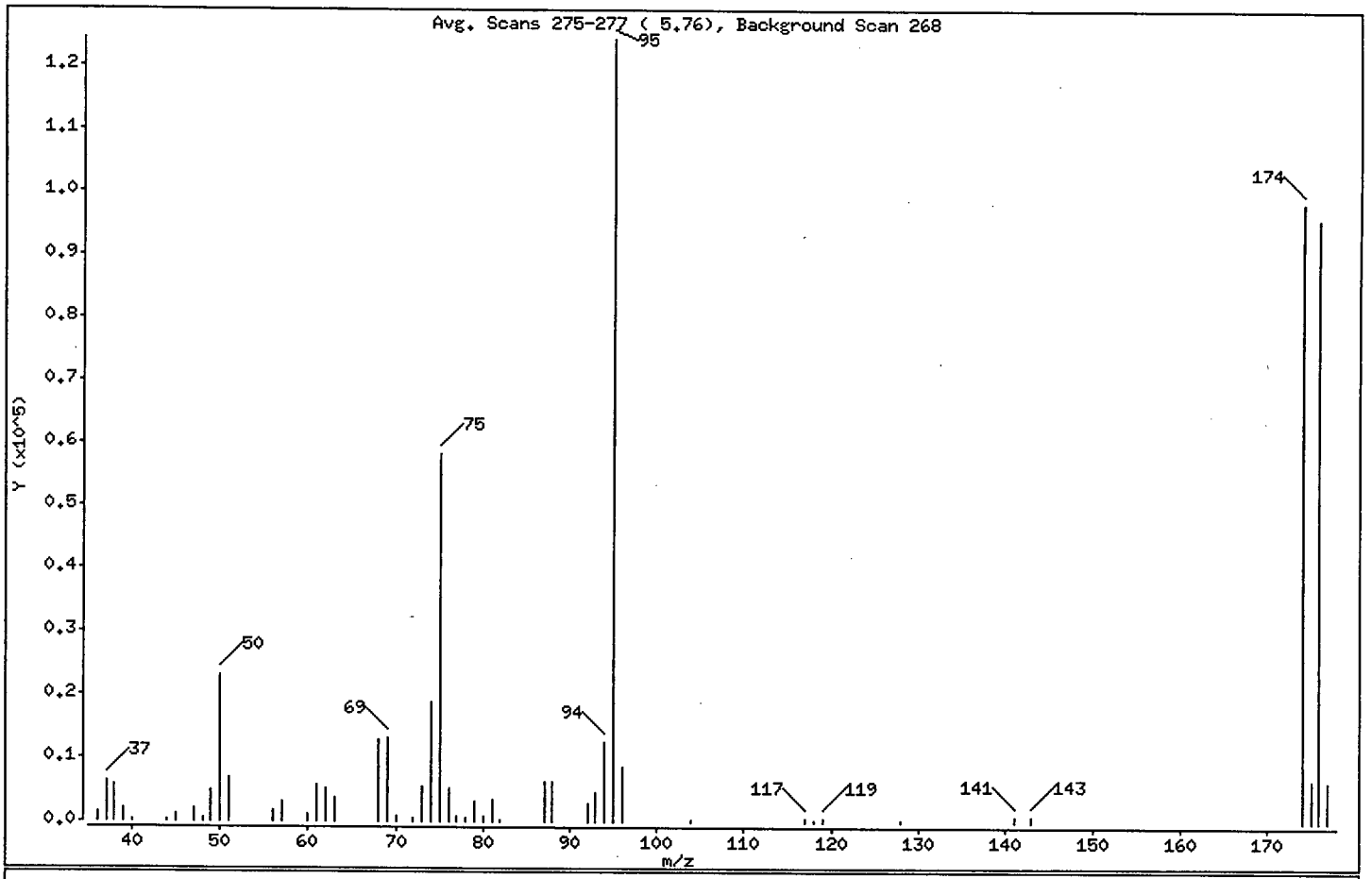
Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

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	8.00 - 40.00% of mass 95	18.72
75	30.00 - 66.00% of mass 95	46.97
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	79.01
175	4.00 - 9.00% of mass 174	5.35 (6.77)
176	93.00 - 101.00% of mass 174	76.97 (97.41)
177	5.00 - 9.00% of mass 176	5.01 (6.50)

COPY

Original Documents Are Included in CSF YORY8

Signed: SB Date: 2/10/03

103

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

Instrument: v5.i

Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

Column phase: DB-624

Column diameter: 0.25

Data File: V5E3390.D
Spectrum: Avg. Scans 275-277 (5.76), Background Scan 268
Location of Maximum: 95.00
Number of points: 50

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1292	57.00	3249	77.00	861	104.00	179
37.00	6318	60.00	1264	78.00	429	117.00	501
38.00	5605	61.00	5739	79.00	3137	118.00	174
39.00	2068	62.00	5249	80.00	852	119.00	611
40.00	174	63.00	3812	81.00	3318	128.00	184
44.00	390	68.00	12940	82.00	381	141.00	893
45.00	1178	69.00	13225	87.00	6387	143.00	880
47.00	1930	70.00	937	88.00	6233	174.00	98248
48.00	708	72.00	681	92.00	2893	175.00	6652
49.00	4903	73.00	5399	93.00	4551	176.00	95704
50.00	23272	74.00	18864	94.00	12579	177.00	6224
51.00	6956	75.00	58408	95.00	124352		
56.00	1786	76.00	5125	96.00	8615		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030128.B\V5E3390.D

Date : 28-JAN-2003 10:37

Client ID: BFB5X

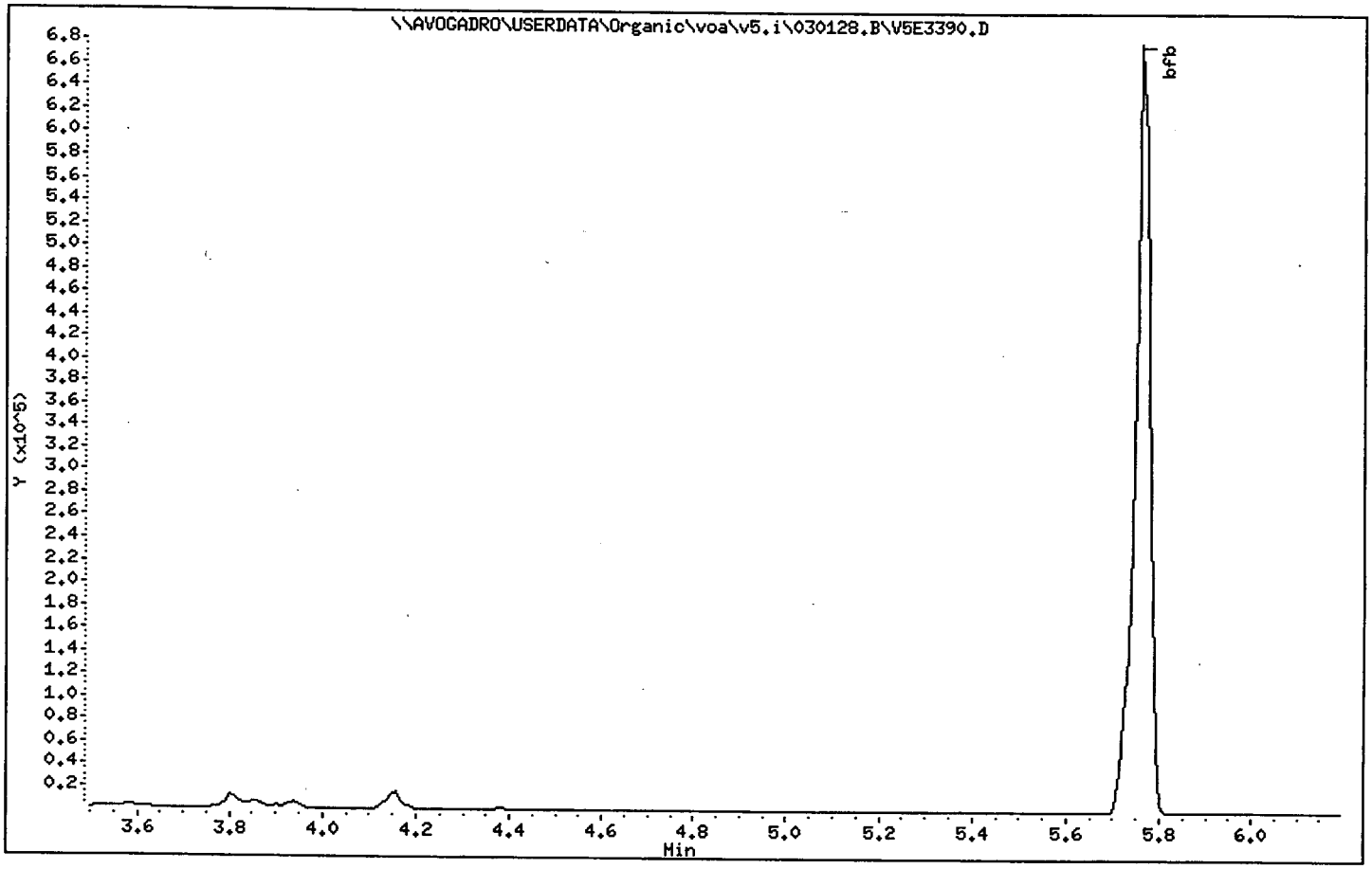
Instrument: v5.i

Sample Info: OLM,V5T0128A,BFB5X

Operator: AN

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

Instrument: v5.i

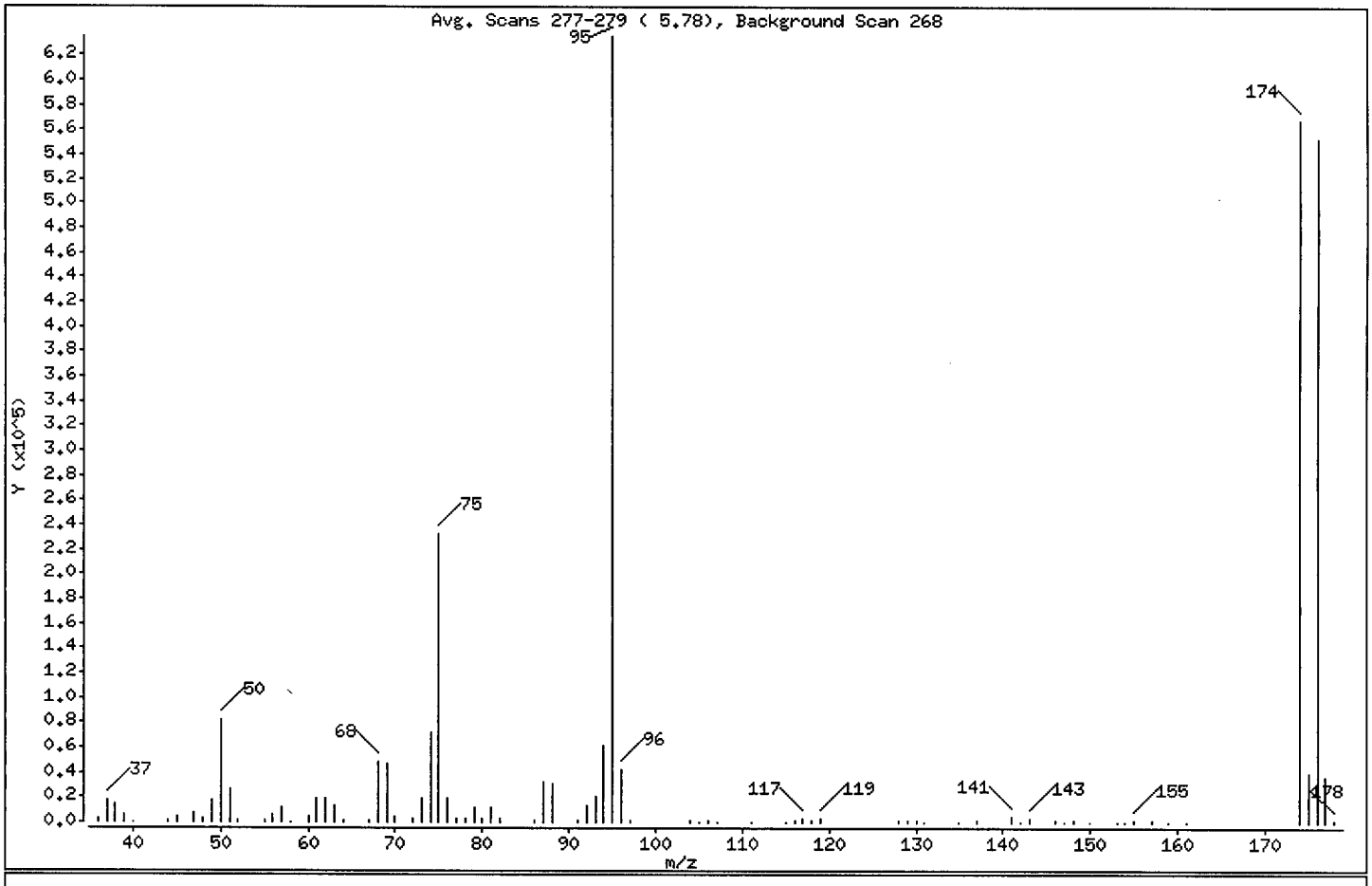
Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

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	8.00 - 40.00% of mass 95	12.87
75	30.00 - 66.00% of mass 95	36.66
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	89.38
175	4.00 - 9.00% of mass 174	6.29 (7.04)
176	93.00 - 101.00% of mass 174	87.02 (97.36)
177	5.00 - 9.00% of mass 176	5.68 (6.53)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

Instrument: v5.i

Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

Column phase: DB-624

Column diameter: 0.25

Data File: V5E5110.D
Spectrum: Avg. Scans 277-279 (5.78), Background Scan 268
Location of Maximum: 95.00
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3373	64.00	1317	93.00	20136	141.00	3777
37.00	17000	67.00	1082	94.00	60872	142.00	186
38.00	14773	68.00	48712	95.00	635200	143.00	3630
39.00	5854	69.00	47552	96.00	41912	146.00	870
40.00	229	70.00	3736	97.00	1217	147.00	174
44.00	1640	72.00	2421	104.00	1968	148.00	1282
45.00	3834	73.00	19016	105.00	570	150.00	208
47.00	7253	74.00	71080	106.00	1928	153.00	180
48.00	2593	75.00	232832	107.00	273	154.00	178
49.00	16856	76.00	19472	111.00	184	155.00	1334
50.00	81768	77.00	3582	115.00	447	157.00	893
51.00	25656	78.00	2517	116.00	1493	159.00	380
52.00	900	79.00	11431	117.00	3022	161.00	189
55.00	1157	80.00	3124	118.00	1552	174.00	567744
56.00	6166	81.00	11744	119.00	2393	175.00	39944
57.00	11897	82.00	2258	128.00	1737	176.00	552704
58.00	447	86.00	804	129.00	828	177.00	36080
60.00	3981	87.00	31552	130.00	1850	178.00	964
61.00	19280	88.00	30416	131.00	502		
62.00	18712	91.00	1638	135.00	585		
63.00	13591	92.00	12925	137.00	835		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5110.D

Date : 25-MAR-2003 19:06

Client ID: BFB5W

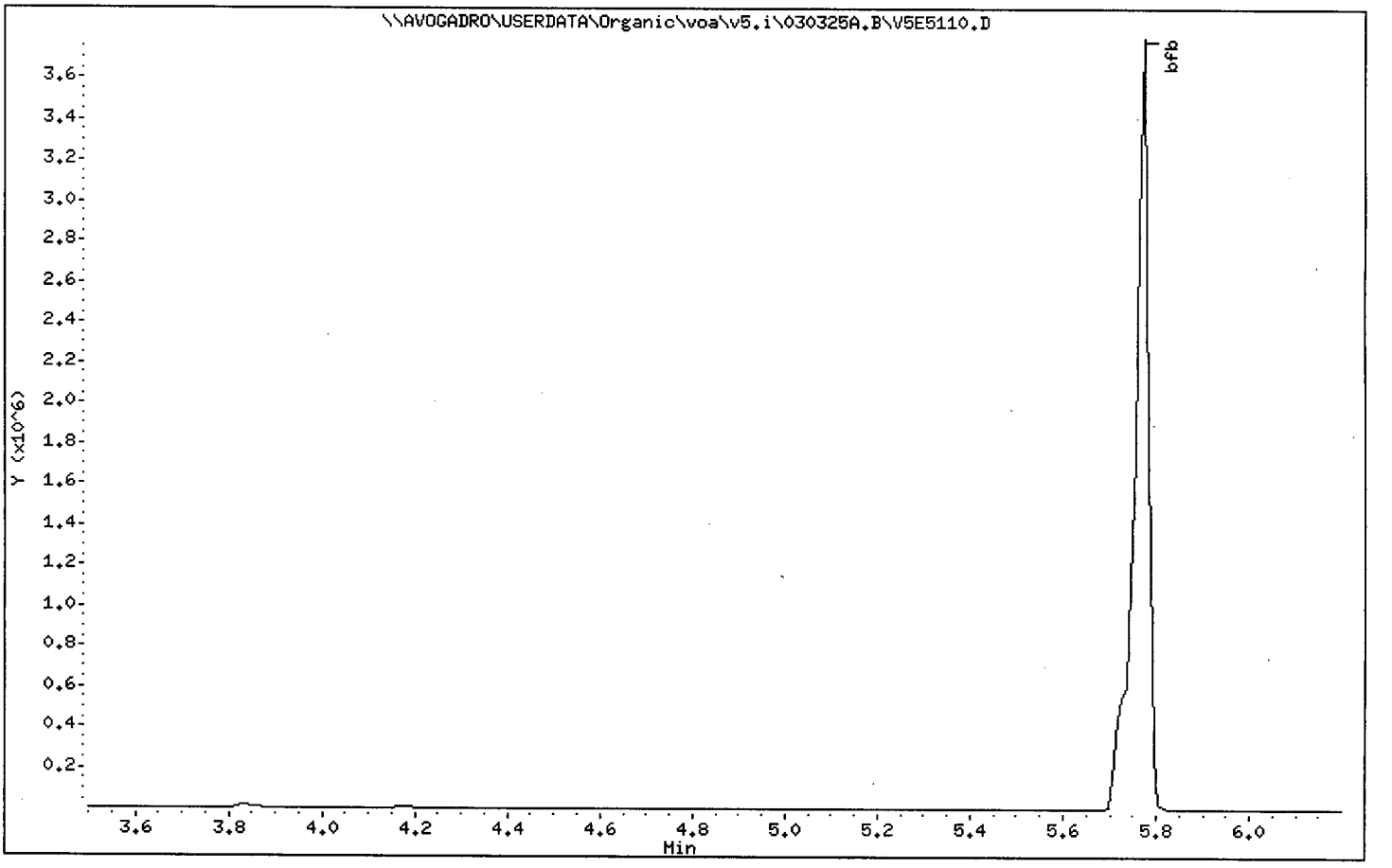
Instrument: v5.i

Sample Info: OLM,V5T0325B,BFB5W

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

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

% Moisture: not dec. _____ Date Analyzed: 03/25/03

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

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

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

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

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

% Moisture: not dec. _____ Date Analyzed: 03/25/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5112

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

% Moisture: not dec. _____ Date Analyzed: 03/25/03

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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28.				
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30.				

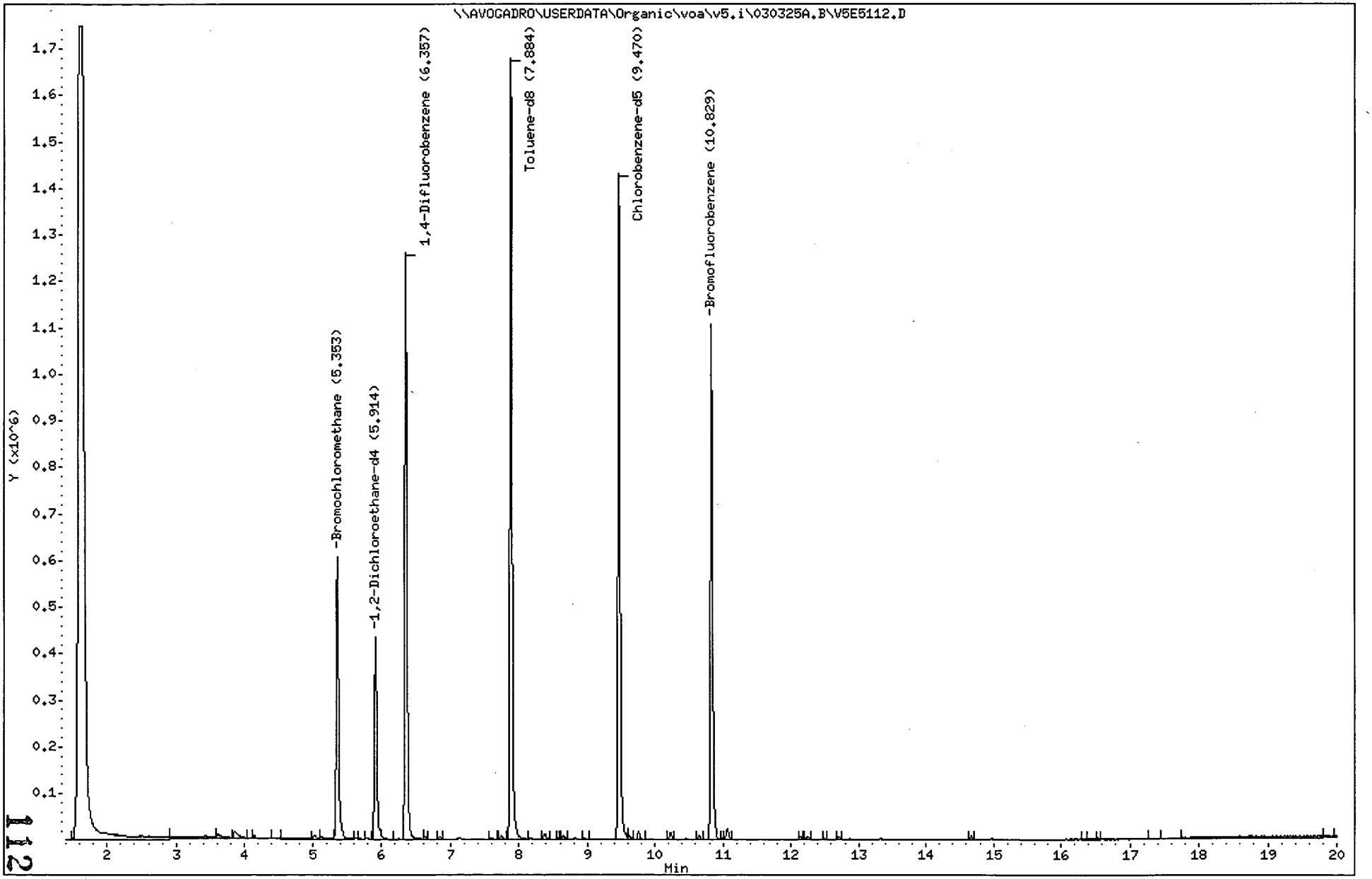
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Date : 25-MAR-2003 19:52
Client ID: VBLK5W
Sample Info: OLM,V5B0325C,VBLK5W,V5B0325C

Instrument: v5.i

Operator: TRA

Column phase: DB-624

Column diameter: 0.25



Data File: V5E5112.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Lab Smp Id: V5B0325C Client Smp ID: VBLK5W
Inj Date : 25-MAR-2003 19:52
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325C,VBLK5W,V5B0325C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 18 Bromochloromethane	128	5.353	5.359	(1.000)	214605	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.914	5.921	(1.105)	342267	53.4151	53
* 26 1,4-Difluorobenzene	114	6.357	6.354	(1.000)	1300717	50.0000	
$ 33 Toluene-d8	98	7.884	7.891	(0.833)	1458552	52.0910	52
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	1113457	50.0000	
$ 50 Bromofluorobenzene	95	10.829	10.826	(1.144)	526884	47.1989	47

SB
4/3/03

Data File: V5E5112.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5112.D
Lab Smp Id: V5B0325C Client Smp ID: VBLK5W
Inj Date : 25-MAR-2003 19:52
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325C,VBLK5W,V5B0325C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 36 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5125

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5125

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

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

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

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

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK5W

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: V5B0325D

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5125

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. _____ Date Analyzed: 03/26/03

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

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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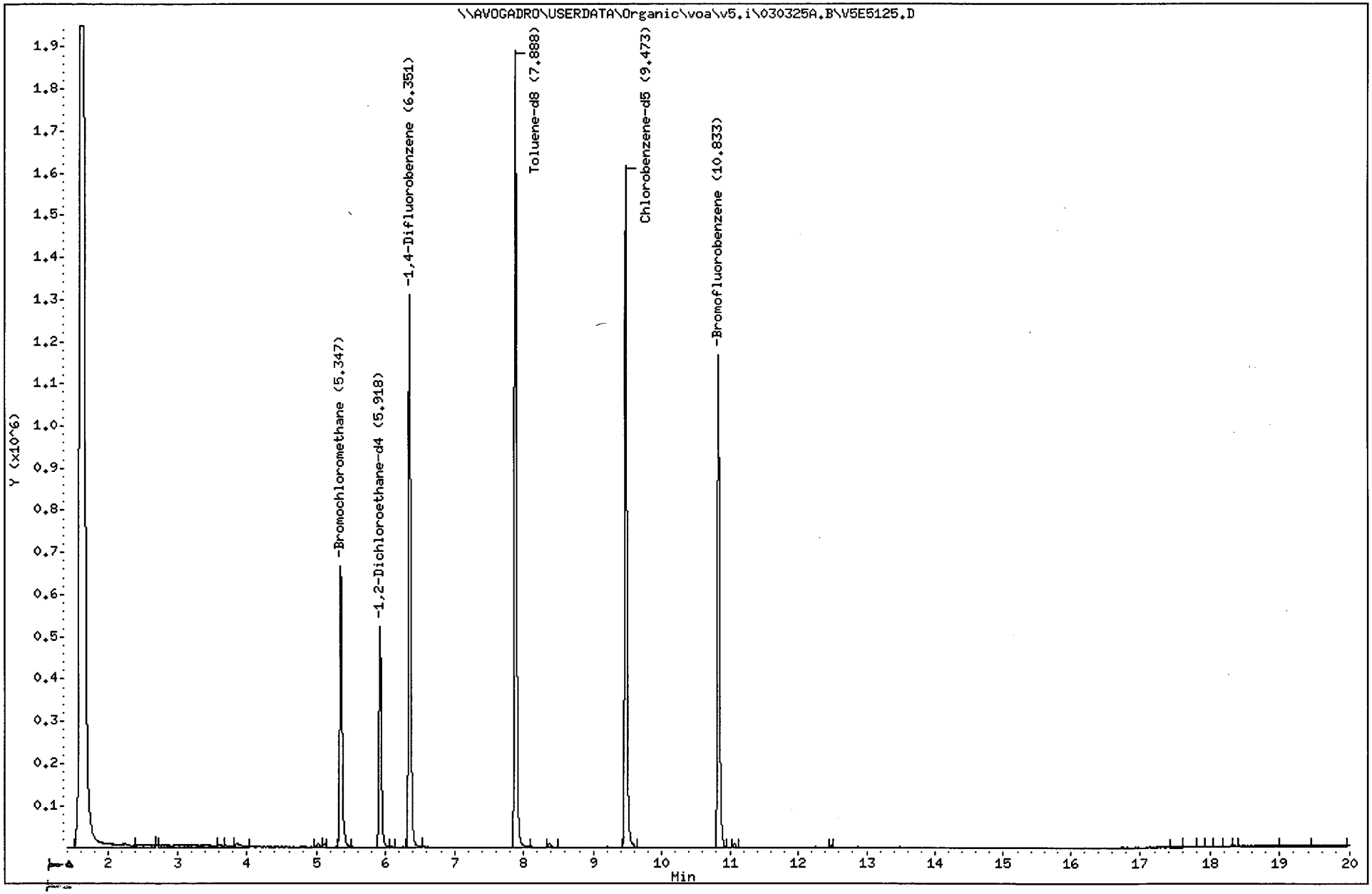
Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5125.D
Date : 26-MAR-2003 02:12
Client ID: VHBLK5W
Sample Info: OLM,V5B0325D,VHBLK5W,V5B0325C

Instrument: v5.i

Operator: TRA
Column phase: DB-624
Column diameter: 0.25



Data File: V5E5125.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5125.D
Lab Smp Id: V5B0325D Client Smp ID: VHBLK5W
Inj Date : 26-MAR-2003 02:12
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325D,VHBLK5W,V5B0325C
Misc Info : ,3,,STORAGEBLANK
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 49 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 18 Bromochloromethane	128	5.356	5.359	(1.000)	230904	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.918	5.921	(1.105)	398334	57.7770	58
* 26 1,4-Difluorobenzene	114	6.351	6.354	(1.000)	1322121	50.0000	
$ 33 Toluene-d8	98	7.888	7.891	(0.833)	1559442	52.2837	52
* 42 Chlorobenzene-d5	117	9.473	9.477	(1.000)	1186088	50.0000	
$ 50 Bromofluorobenzene	95	10.823	10.826	(1.142)	587901	49.4399	49

SB
4/3/03

K

Data File: V5E5125.D
Report Date: 03-Apr-2003 10:02

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5125.D
Lab Smp Id: V5B0325D Client Smp ID: VHBLK5W
Inj Date : 26-MAR-2003 02:12
Operator : TRA Inst ID: v5.i
Smp Info : OLM,V5B0325D,VHBLK5W,V5B0325C
Misc Info : ,3,,STORAGEBLANK
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 49 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0MS

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03BMS

Sample wt/vol: 5.9 (g/mL) G Lab File ID: V5E5119

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	9	U
74-87-3	Chloromethane	9	U
75-01-4	Vinyl Chloride	13	
74-83-9	Bromomethane	9	U
75-00-3	Chloroethane	9	U
75-69-4	Trichlorofluoromethane	9	U
75-35-4	1,1-Dichloroethene	36	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9	U
67-64-1	Acetone	19	
75-15-0	Carbon Disulfide	9	U
79-20-9	Methyl Acetate	4	J
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	3	J
1634-04-4	Methyl tert-Butyl Ether	9	U
75-34-3	1,1-Dichloroethane	9	U
156-59-2	cis-1,2-Dichloroethene	400	E
78-93-3	2-Butanone	9	U
67-66-3	Chloroform	9	U
71-55-6	1,1,1-Trichloroethane	9	U
110-82-7	Cyclohexane	3	J
56-23-5	Carbon Tetrachloride	9	U
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	9	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0MS

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03BMS

Sample wt/vol: 5.9 (g/mL) G Lab File ID: V5E5119

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

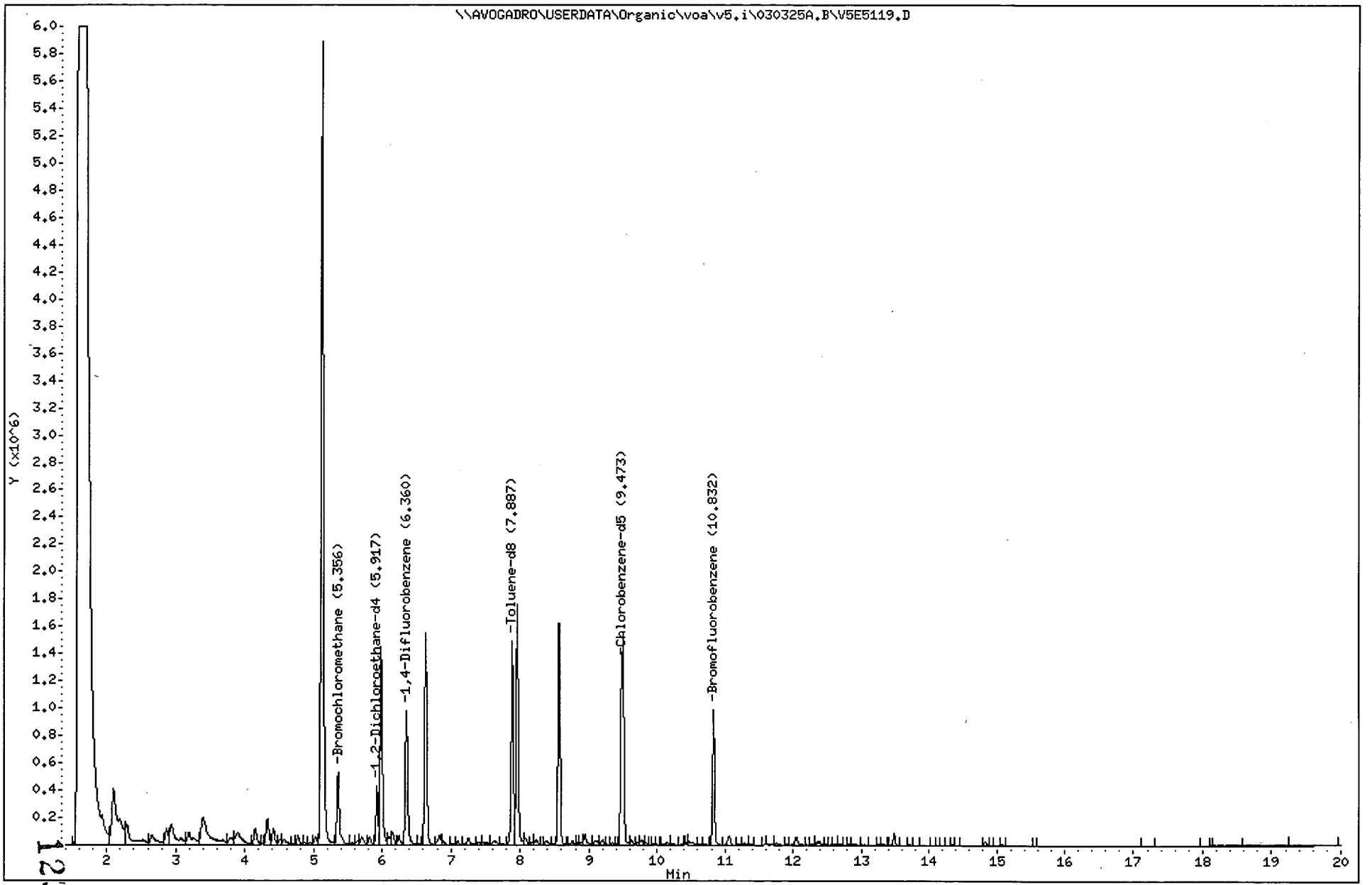
Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

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

CAS NO.	COMPOUND		Q
79-01-6	Trichloroethene	93	
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	9	U
75-27-4	Bromodichloromethane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
108-10-1	4-Methyl-2-Pentanone	9	U
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	9	U
79-00-5	1,1,2-Trichloroethane	9	U
127-18-4	Tetrachloroethene	79	
591-78-6	2-Hexanone	9	U
124-48-1	Dibromochloromethane	9	U
106-93-4	1,2-Dibromoethane	9	U
108-90-7	Chlorobenzene	48	
100-41-4	Ethylbenzene	9	U
1330-20-7	Xylene (Total)	9	U
100-42-5	Styrene	9	U
75-25-2	Bromoform	9	U
98-82-8	Isopropylbenzene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
541-73-1	1,3-Dichlorobenzene	9	U
106-46-7	1,4-Dichlorobenzene	9	U
95-50-1	1,2-Dichlorobenzene	9	U
96-12-8	1,2-Dibromo-3-chloropropane	9	U
120-82-1	1,2,4-Trichlorobenzene	9	U

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5119.D
Date : 25-MAR-2003 23:17
Client ID: YOSL0MS
Sample Info: EPA,B0443-03BMS,YOSL0MS,V5B0325C,,YOSK8

Instrument: v5.i
Operator: TRA
Column phase: DB-624
Column diameter: 0.25



Data File: V5E5119.D
Report Date: 03-Apr-2003 09:58

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5119.D
Lab Smp Id: B0443-03BMS Client Smp ID: Y0SL0MS
Inj Date : 25-MAR-2003 23:17
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-03BMS,Y0SL0MS,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03,3,,MS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 43 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.900	Weight of sample (g)
M	8.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
3 Vinyl Chloride	62	2.115	2.109	(0.395)	105122	14.4988	13
7 1,1-Dichloroethene	96	3.396	3.390	(0.634)	269439	39.5375	36
9 Acetone	43	3.415	3.419	(0.638)	62081	20.9824	19
11 Methyl Acetate	43	3.780	3.764	(0.706)	22798	4.48710	4(a)
12 Methylene Chloride	84	3.868	3.872	(0.722)	73195	7.62649	7(a)
13 trans-1,2-Dichloroethene	96	4.144	4.148	(0.774)	27098	3.56903	3(a)
17 cis-1,2-Dichloroethene	96	5.119	5.123	(0.956)	3396777	435.790	400(A)
* 18 Bromochloromethane	128	5.356	5.359	(1.000)	176858	50.0000	
21 Cyclohexane	56	5.700	5.694	(0.896)	32081	2.75043	3(aQ)
$ 23 1,2-Dichloroethane-d4	65	5.917	5.921	(1.105)	311622	59.0123	54
25 Benzene	78	5.986	5.990	(0.941)	1556067	56.9682	52
* 26 1,4-Difluorobenzene	114	6.360	6.354	(1.000)	1017290	50.0000	
27 Trichloroethene	130	6.636	6.630	(1.043)	633681	101.287	93(R)
28 Methylcyclohexane	83	6.843	6.847	(1.076)	37748	3.22123	3(aQ)
$ 33 Toluene-d8	98	7.887	7.891	(0.833)	1175630	51.3006	47

Data File: V5E5119.D
Report Date: 03-Apr-2003 09:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
34 Toluene	91	7.956	7.960	(0.840)	1592656	55.0627	51
37 Tetrachloroethene	164	8.566	8.561	(0.904)	496671	85.2693	79
* 42 Chlorobenzene-d5	117	9.473	9.477	(1.000)	911301	50.0000	
43 Chlorobenzene	112	9.502	9.506	(1.003)	992514	51.7410	48
$ 50 Bromofluorobenzene	95	10.832	10.826	(1.143)	464322	50.8216	47

SB
4/3/03

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

K

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0MSD

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03BMSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5120

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	44	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	38	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	9	J
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	3	J
78-93-3	2-Butanone	14	
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	58	
107-06-2	1,2-Dichloroethane	11	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y0SL0MSD

Lab Name: MITKEM CORPORATION Contract: 68W99076

Lab Code: MITKEM Case No.: 31520 SAS No.: _____ SDG No.: Y0SK8

Matrix: (soil/water) SOIL Lab Sample ID: B0443-03BMSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E5120

Level: (low/med) LOW Date Received: 03/19/03

% Moisture: not dec. 8 Date Analyzed: 03/25/03

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

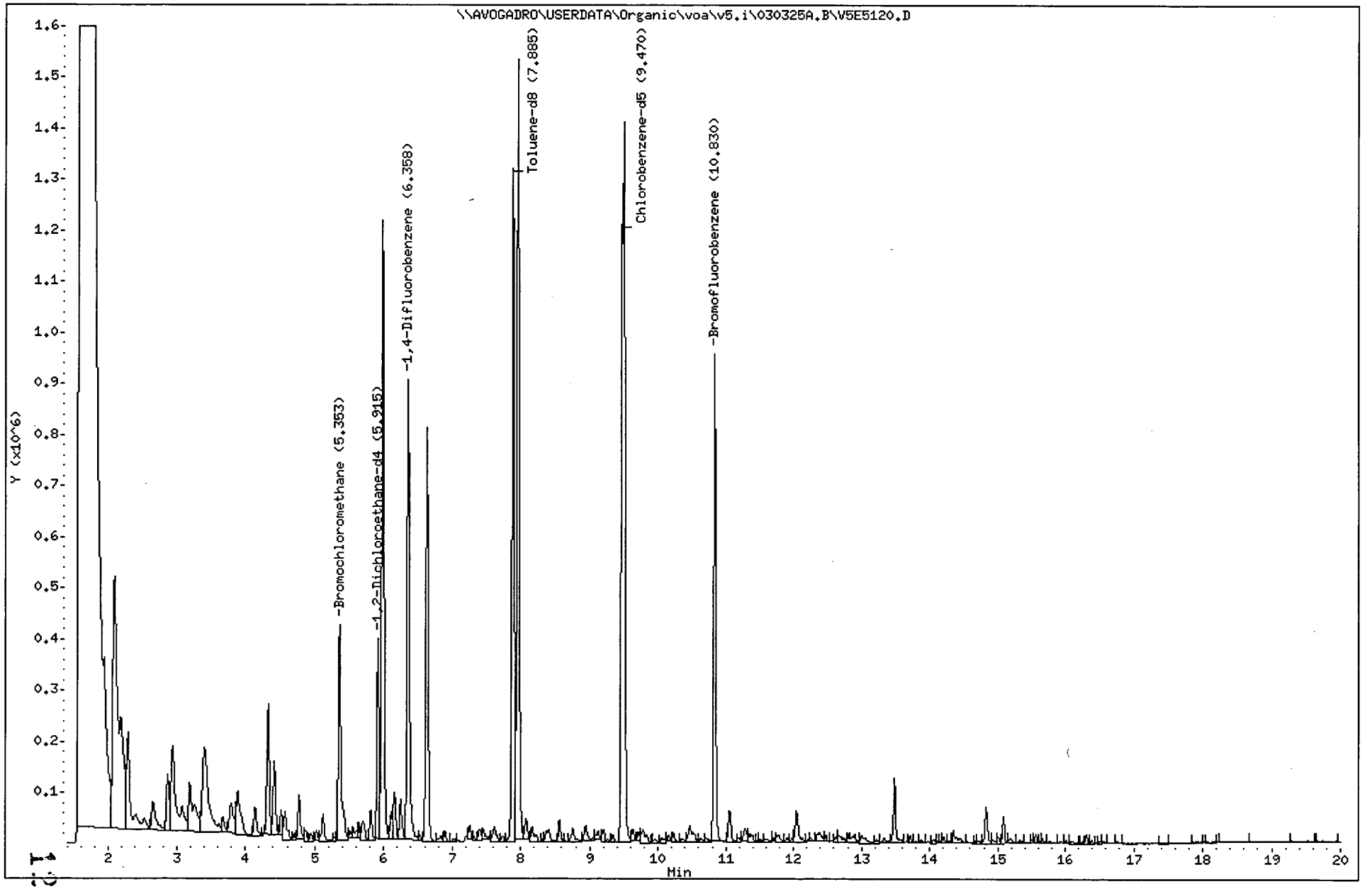
Soil Extract Volume: _____ (mL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	62	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	57	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	3	J
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	56	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5120.D
Date : 25-MAR-2003 23:46
Client ID: YOSL0MSD
Sample Info: EPA,B0443-03BMSD,YOSL0MSD,V5B0325C,,YOSK8

Instrument: v5.i

Operator: TRA
Column phase: DB-624
Column diameter: 0.25



Data File: V5E5120.D
Report Date: 03-Apr-2003 09:59

Mitkem Corporation

CLP OLM 3/4.X / ASP 95-1 Low Soil - Heated Purge

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\V5E5120.D
Lab Smp Id: B0443-03BMSD Client Smp ID: Y0SL0MSD
Inj Date : 25-MAR-2003 23:46
Operator : TRA Inst ID: v5.i
Smp Info : EPA,B0443-03BMSD,Y0SL0MSD,V5B0325C,,Y0SK8
Misc Info : 19-MAR-03,3,,MSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\030325A.B\v5clp4h.m
Meth Date : 03-Apr-2003 09:50 mtl Quant Type: ISTD
Cal Date : 25-MAR-2003 19:18 Cal File: V5E5111.D
Als bottle: 44 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: CLP4.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	8.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
7 1,1-Dichloroethene	96	3.393	3.390	(0.634)	222437	40.1287	44
9 Acetone	43	3.413	3.419	(0.638)	84484	35.1051	38
11 Methyl Acetate	43	3.777	3.764	(0.706)	34314	8.30309	9(a)
12 Methylene Chloride	84	3.866	3.872	(0.722)	67829	8.68878	9(a)
16 2-Butanone	43	5.117	5.123	(0.956)	45082	12.9233	14
17 cis-1,2-Dichloroethene	96	5.117	5.123	(0.956)	14747	2.32602	3(a)
* 18 Bromochloromethane	128	5.353	5.359	(1.000)	143855	50.0000	
$ 23 1,2-Dichloroethane-d4	65	5.915	5.921	(1.105)	301338	70.1565	76(R)
25 Benzene	78	5.984	5.990	(0.941)	1317069	52.9322	58
* 26 1,4-Difluorobenzene	114	6.358	6.354	(1.000)	926697	50.0000	
27 Trichloroethene	130	6.634	6.630	(1.043)	323845	56.8233	62
$ 33 Toluene-d8	98	7.885	7.891	(0.833)	1082927	50.7125	55
34 Toluene	91	7.954	7.960	(0.840)	1411608	52.3738	57
37 Tetrachloroethene	164	8.564	8.561	(0.904)	13753	2.53388	3(a)
* 42 Chlorobenzene-d5	117	9.470	9.477	(1.000)	849176	50.0000	

Data File: V5E5120.D
Report Date: 03-Apr-2003 09:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
43 Chlorobenzene	112	9.510	9.506	(1.004)	927251	51.8752	56
$ 50 Bromofluorobenzene	95	10.830	10.826	(1.144)	438217	51.4733	56

58
4/3/03

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

KL

DATE: 1/28/03

INSTRUMENT V5
INJECTION LOG

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V5CLP4H
INITIAL CAL: 1/28/03
COMMENTS:

CAL ID: VW030114A-GAS
IS/SS ID: VW030109B-STD
VW030102B-SS
VW021205A-IS

ANALYST: AW/YD
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DI	V5E330	90	V5T0128	A	BFB5X	2uL	-	OK 10:37			
1	V5E33	91	V550128	A	VSTD050X	5mL	-				
2	↓	92	↓	B	VSTD010X	↓	-				
3		93		C	~~VSTD200X~~ VSTD2005X		-	OLMSL			
4		94		D	~~VSTD100X~~ VSTD1005X		-				
5	V5E33	95	V550128	E	VSTD0205X	5mL	-	13:02			

NA

AW 1/29/03

Logbook ID 90.0199-1/02

Reviewed By: YD 1/30/03

Logbook page: 000099

DATE: 3/25/03

INSTRUMENT V5
INJECTION LOG 6316

MITKEM CORPORATION
VOLATILES LABORATORY

METHOD: V5clpth
CAL ID: VW030310F-GAS
ANALYST: YD/TRA
INITIAL CAL: 1/28/03
IS/SS ID: VW030310E-STD
ARCHIVE:
VW050204G-SS
VW021205A-IS
COMMENTS: 2nd batch

AS ##	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V5E51	10	V5T0325	B	BFB5W	2µL	-	OK 19:06			
		11	V5S0325	B	VSTD050SW	5mL	-	OK	✓		
		12	V5B0325	C	VBLK5W	5mL	-	OK	✓	✓	
		13	B0429-	01B	13SB30A	5.0g	-	OK	✓	✓	
		14	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		15	B0443-	01B	Y0SK8	5.0	-	OK	✓	✓	
		16	B0443-	02B	Y0SK9	5.0	-	OK	✓	✓	
		17	B0443-	03B	Y0SL0	5.7	-	OK	✓	✓	
		18	B0447-	01A	Y0SH9	6.2	-	OK	✓	✓	
		19	B0443-	03BMS	Y0SL0MS	5.9	-	OK	✓	✓	
		20	B0443-	03BMSD	Y0SL0MSD	5.0	-	OK	✓	1↑	
		21	B0447-	01AMS	Y0SH9MS	6.4	-	OK	✓	✓	
		22	B0447-	01AMSD	Y0SH9MSD	6.5	-	OK	✓	✓	
		23	B0443-	04B	Y0SL1	5.5	-	DCE 847, RRM Level	✓	✓	
		24	B0443-	05B	Y0SL2	5.7	-	DCE 742, RRM Level	✓	✓	
		25	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		26	B0447-	02A	Y0SL0	4.7	-	OK	✓	✓	
		27	B0447-	03A	Y0SJ1	4.4	-	OK	✓	✓	
		28	V5B0325	D	VHBLK5W	5mL	-	OK	✓	✓	
		29	B0460-	01B	C0206	6.6	-	OK	✓	✓	
		30		02B	C0207	5.1	-	OK	✓	✓	
		31		03B	C0208	5.0	-	OK	✓	✓	
		32		04B	C0209	5.8	-	OK	✓	✓	
		33		07B	C0302	5.0	-	OK	✓	✓	
		34	B0460-	08B	C0303	5.1	-	RR58	✓	2↑	
	V5E51	35	GRO STD TEST		GRO STD TEST	5mL	-	7:04			

YD 3/26/03

Logbook ID 90.0199-1/03

Reviewed By: YD 3/26/03

Logbook page: 0076

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/$NaHSO_4$	Methanol Lot. # / $NaHSO_4$ ID	Comments	Analyst
3/26/03	B0429-01	8260	5.0	5mL	NaHSO4	VW030306A		TRA
	B0447-01		6.2					
	-01MS		6.4					
	-01MSD		6.5					
	-02		4.7					
	B0447-03		4.4					
	B0443-01		5.0 ✓					
	-02		5.0 ✓					
	-03		5.7 ✓					
	-03MS		5.9 ✓					
	-03MSD		5.0 ✓					
	-04		5.5 ✓					
	B0443-05		5.7					
	B0460-01		6.6					
	-02		5.1					
	-03		5.0					
	-04		5.8					
	-07		5.0					
3/26/03	B0460-08	8260	5.1	5mL	NaHSO4	VW030306A		TRA

133

Logbook ID: 90.0189-1/02

Reviewed By: RW 3/31/03

Logbook page: 000072

Mitkem Corporation % Moisture and % Solids Logbook

Date In:	03/19/2003	Temperature In (°F):	105	Logbook ID:	9SR-10	QAT00245
Date Out:	03/20/2003	Temperature Out (°F):	105	Analyst:	NR	

Mitkem Sample ID	Tare Mass (g)	Wet Wt	Wet Wt (g) Tared	Dry Wt (g)	Dry Wt (g) Tared	% Moisture	% Solids
B0428-11A	1.0	6.3	5.3	5.0	4.0	25	75
B0428-12A	1.0	6.4	5.4	5.9	4.9	9	91 am
B0428-13A	1.0	6.4	5.4	5.1	4.1	24	76
B0434-03A	1.0	6.2	5.2	5.4	4.4	15	85
B0434-03ADUP	1.0	6.4	5.4	5.8	4.8	11	89
B0434-04A	1.0	6.6	5.6	5.8	4.8	14	86
B0434-05A	1.0	6.2	5.2	5.3	4.3	17	83
B0434-06A	1.0	7.0	6.0	5.6	4.6	23	77
B0434-07A	1.0	6.3	5.3	5.1	4.1	23	77
B0434-09A	1.0	6.1	5.1	4.9	3.9	24	76
B0434-10A	1.0	6.7	5.7	6.0	5.0	12	88
B0434-11A	1.0	6.7	5.7	5.3	4.3	25	75
B0434-12A	1.0	6.8	5.8	5.4	4.4	24	76
B0434-13A	1.0	7.2	6.2	5.4	4.4	29	71
B0434-14A	1.0	6.3	5.3	3.8	2.8	47	53
B0434-15A	1.0	7.0	6.0	6.1	5.1	15	85
B0434-16A	1.0	7.1	6.1	6.4	5.4	11	89
B0434-17A	1.0	6.3	5.3	4.1	3.1	42	58
B0434-18A	1.0	6.3	5.3	3.7	2.7	49	51
B0434-19A	1.0	6.5	5.5	5.5	4.5	18	82
B0434-20A	1.0	7.9	6.9	7.0	6.0	13	87
B0444-01A	1.0	6.3	5.3	6.3	5.3	0	100
B0444-02A	1.0	7.9	6.9	7.6	6.6	4	96
B0444-03A	1.0	7.7	6.7	7.5	6.5	3	97
B0444-04A	1.0	8.3	7.3	7.2	6.2	15	85
B0443-01A	1.0	6.2	5.2	5.8	4.8	8	92 am
B0443-02A	1.0	6.0	5.0	5.4	4.4	12	88
B0443-03A	1.0	6.0	5.0	5.6	4.6	8	92
B0443-04A	1.0	6.2	5.2	5.3	4.3	17	83
B0443-05A	1.0	6.0	5.0	4.8	3.8	24	76
B0447-01A	1.0	6.3	5.3	5.8	4.8	9	91

% Solid = 100(Dry Mass Tared/Wet Mass Tared)

Reviewed By: am 3/21/03

133A

% Moisture = 100 - % Solid

Logbook Page Number: 340

030319A

Mitkem Corporation % Moisture and % Solids Logbook

Date In:	03/19/2003		Temperature In (°F):	105		Logbook ID:	9SR-10	QAT00245
Date Out:	03/20/2003		Temperature Out (°F):	105		Analyst:	NR	
Mitkem Sample ID	Tare Mass (g)	Wet Wt	Wet Wt (g) Tared	Dry Wt (g)	Dry Wt (g) Tared	% Moisture	% Solids	
B0447-02A	1.0	6.1	5.1	5.9	4.9	4	96	
B0447-03A	1.0	5.8	4.8	5.6	4.6	4	96	
B0455-01A	1.0	6.5	5.5	6.1	5.1	7	93	
B0455-02A	1.0	6.5	5.5	4.7	3.7	33	67	am
B0455-03A	1.0	6.3	5.3	4.3	3.3	38	62	
B0455-04A	1.0	6.1	5.1	3.7	2.7	47	53	
B0455-05A	1.0	6.8	5.8	6.1	5.1	12	88	

% Solid = 100(Dry Mass Tared/Wet Mass Tared)

% Moisture = 100 - % Solid

Reviewed By: am 3/21/03

Logbook Page Number: 341

030319A

133B

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
B0443-01A	Y0SK8	03/19/2003	8	92	Yes
B0443-02A	Y0SK9	03/19/2003	12	88	Yes
B0443-03A	Y0SL0	03/19/2003	8	92	Yes
B0443-04A	Y0SL1	03/19/2003	17	83	Yes
B0443-05A	Y0SL2	03/19/2003	24	76	Yes

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
B0432	TT	01-04	R13 3/17/03 TRA					
B0433	LB	01-20	R4 3/17/03 TRA					
B0434	LB	01,02	R9 3/17/03 TRA					
B0439	TT	01-03	R13 3-18-03 N					
B0434	BERGER	03-20	R13 3-19-03 NB					
B0456	TETRATECH	01,02,04,06,08,10,12						
B0455	BERGER	01-12						
B0444	EARTHTECH	01-12	R9					
B0442	SMC	01-03,05-15						
B0440	SMC	01-07						
B0441	SMC	01-07						
B0447	EPA	01-03	R13	3/25/03 15:00 YD	3/25/03 15:30 YD			
B0443	EPA	01-05	R13 3-19-03 NB	3/25/03 15:00 YD	3/25/03 15:30 YD			
B0459	SHAW	01-06	R4 03-20-03 AW					
B0461	WESTON	01-41	R4					
B0462	Envirogen	01-07	R4					
B0458	Tetra	01-12	R13					
B0460	EPA	01-16	R13	3/24/03 12:00 / 3/24/03 12:30 YN	3/25/03 14:00 / 3/25/03 14:30 YN	3/28/03 11:00 / 3/28/03 11:30 YN	3/30/03 13:00 / 3/30/03 13:30 YD	3/23/03 11:00 / 3/23/03 11:30 YN
B0457	EPA	01-09	R13 03-20-03 AW	3/23/03 13:40 YD	3/27/03 14:20 YD	3/24/03 YD 17:30	3/24/03 YD 18:00	
B0463	GZA	01,02	R4 3/21/03 TRA					
B0464	WESTON	01-20	R4 3/21/03 TRA					

Logbook ID 90.0190-1/02

Reviewed By: YD 3/26/03

Logbook Page 000028

45

200

FedEx Express USA Airbill

FedEx Tracking Number 8358 5942 6435

Form I.D. No. 0215

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Address 175 Metro Center Blvd.

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Floor/Suite/Room

City Warwick State RI ZIP 02886

8358 5942 6435

Agnes Ng 3/14/03

0224449423

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 Envelope 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 Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only 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
- [ ] Cargo Aircraft Only

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

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
- [ ] Cash/Check
- Obtain Recip Acct. No. [ ]

Total Packages 1 Total Weight Total Charges

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* 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? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF•Rev. Date 4/02•Part #157610S•©1994–2002 FedEx•PRINTED IN U.S.A.

447

NO POUCH NEEDED. See back for peel and stick application instructions.

Case 31520
SDG YØSKB

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Contract Laboratory Program

Sample Delivery Group (SDG) Traffic Report (TR) Cover Sheet

SDG Number Y0SK8

Laboratory Name Mitkem Corporation Laboratory Code MITKEM

Contract No. 68-W-99-076 Case No. 31520

Analysis Price $536.00 SDG Turnaround 21 days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) Y0SK8	7) Y0SL2	13)	19)
2) Y0SK9	8)	14)	20)
3) Y0SL0	9)	15)	21)
4) Y0SL0MS	10)	16)	22)
5) Y0SL0MSD	11)	17)	23)
6) Y0SL1	12)	18)	24)

Y0SK8
First Sample in SDG

Y0SL2
Last Sample in SDG

3/19/03
First Sample Receipt Date

3/19/03
Last Sample Receipt Date

Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature [signature] Date 3/20/03

SDG-CS.wpd 9/99

USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No:	31520
DAS No:	
SDG No:	Y0SK8

L

Date Shipped:	3/18/2003
Carrier Name:	FedEx
Airbill:	835859426435
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Sampler Signature: [illegible]

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	3/18/03 1700	Federal Express	3/18/03 1700
2			
3			
4		[illegible]	3-19-03 0900

For Lab Use Only

Lab Contract No:	68-W-99-076
Unit Price:	$536
Transfer To:	—
Lab Contract No:	—
Unit Price:	—

	ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
-1	Y0SK8	Soil (>12")/ Anitra Rice	L/G	VOA (21)	(Ice Only) (3)	JF-1-S5	S: 3/18/2003	1550	MY0SK8	OK
-2	Y0SK9	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-1-S15	S: 3/18/2003	1612	MY0SK9	OK
-3	Y0SL0	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~8~~-S20 7	S: 3/18/2003	10:30	MY0SL0	only 3 Encores
-4	Y0SL1	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~8~~-S30 7	S: 3/18/2003	10:55	MY0SL1	OK
-5	Y0SL2	Soil (>12")/ Anitra Rice	L	VOA (21)	(Ice Only) (3)	JF-~~8~~-S35 7	S: 3/18/2003	11:00	MY0SL2	OK

SDG-Final Sample

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: Y0SL0	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key: VOA = CLP TCL Volatiles	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 9-233994445-031803-0002

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

Mitkem Corporation — *20/Mar/03 10:09* — WorkOrder: B0443

Client ID: EPAINV
Project: OLM 21 TAT (076)
Location:
Comments: Contract 68-W-99-076

Case: 31520
SDG: Y0SK8
PO: 68-W-99-076

Report Level: CLP_REPORT
EDD: CLP
HC Due: 04/09/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
B0443-01A	Y0SK8	03/18/03 15:50	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0443-01B	Y0SK8	03/18/03 15:50	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA
B0443-02A	Y0SK9	03/18/03 16:12	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0443-02B	Y0SK9	03/18/03 16:12	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA
B0443-03A	Y0SL0	03/18/03 10:30	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0443-03B	Y0SL0	03/18/03 10:30	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☑	☐	VOA
					OLM4.2_VOA_MED_S		☑	☑	☐	VOA
B0443-04A	Y0SL1	03/18/03 10:55	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0443-04B	Y0SL1	03/18/03 10:55	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA

Client Rep: Agnes R Ng

Mitkem Corporation — *20/Mar/03 10:09* — WorkOrder: B0443

Client ID: EPAINV
Project: OLM 21 TAT (076)
Location:
Comments: Contract 68-W-99-076

Case: 31520
SDG: Y0SK8
PO: 68-W-99-076

Report Level: CLP_REPORT
EDD: CLP
HC Due: 04/09/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
B0443-05A	Y0SL2	03/18/03 11:00	03/19/03	Soil	PMoist		☐	☐	☐	B3
B0443-05B	Y0SL2	03/18/03 11:00	03/19/03	Soil	OLM4.2_VOA_LOW_S		☐	☐	☐	VOA
					OLM4.2_VOA_MED_S		☑	☐	☐	VOA

Client Rep: Agnes R Ng

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SAMPLE LOG-IN SHEET

Lab Name: Mitkem Corporation	Page 1 of 1
Received By (Print Name): Nathan Reynolds	Log-in Date: 3-19-03
Received By (Signature): Nathan Reynolds	
Case Number: 3.520	Sample Delivery Group No.: YOSK8
	SAS Number

Remarks: (1) Please see associated Sample/extract transfer logbook pages submitted with this data package

1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	N/A
3. Chain of Custody Records	Present/Absent*
4. Traffic Reports or Packing Lists	Present/Absent*
5. Airbill	Airbill/Sticker Present/Absent*
6. Airbill No.	FED-EX 83 5869426435
7. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Chain-of-Custody
8. Sample Condition	Intact/Broken*/Leaking
9. Cooler Temperature	2°C
10. Does information on custody records, traffic reports, and sample tags agree?	Yes/No*
11. Date Received at Lab	3-19-03
12. Time Received	0900

EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
YOSK8	N/A	B0443 01	OK
YOSK9		02	
YOSL0		B0443 03	Only 3 Encores
YOSL0MS		03 MS	
YOSL0MSD		B0443 03 MSD	
YOSL1		04	OK
YOSL2	N/A	B0443 05	

Sample Transfer

Fraction % solid BNA & Pest/PCB (1)	Fraction VOA (1)
Area # ~~B1~~ R2 AM 3/19/03	Area # VOA Lab
By NR	By NR
On 3/19/03	On 3/19/03

* Contact SMO and attach record of resolution

Reviewed By AM	Logbook No.
Date 3/19/03	Logbook Page No. 141

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Holly Sturdavant"
Sent: Wednesday, March 19, 2003 11:13 AM
Subject: Case 31519 and 31520

Hi Holly,

Sample Y0SH9 is designated as sample for laboratory QC for case 31519 and sample Y0SL0 for case 31520. Only three Encores were sent for each sample. We can preserve each Encore for sample and MS/MSD analysis, but there will be no remaining sample for re-analysis or dilution if needed. How should we proceed?

Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)"
Sent: Thursday, March 20, 2003 9:43 AM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Agnes,

Below is the response from Region 9 regarding the volume and MS/MSD issues for Case 31520. Per the Region, if the samples require reanalysis, the lab should not run the MS/MSD analysis. If the samples do not require reanalysis, the lab should run the MS/MSD analysis. Please let me know if the samples require reanalysis.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Freitas.Richard@epamail.epa.gov
[mailto:Freitas.Richard@epamail.epa.gov]
Sent: Wednesday, March 19, 2003 4:32 PM
To: Sturdavant, Holly
Cc: Steve Remaley (E-mail)
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

If the samples require reanalysis, the lab should not run the MS/MSD analysis.

If the samples do not require reanalysis, the lab should run the MS/MSD analysis.

By the way, this case is complete.

Rich

From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
03/19/2003 11:32 AM

Rich,

Following is an email from MITKEM. Sample Y0SL0 is designated for lab QC on the TR/COC for Case 31520. The lab only received 3 ENCOREs for this sample. The lab states that they can preserve each ENCORE for sample and MS/MSD analysis, but there will be no remaining volume for reanalysis or dilution if required. Please advise on how the lab should proceed.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Wednesday, March 19, 2003 11:14 AM
To: Sturdavant, Holly
Subject: Case 31519 and 31520

Hi Holly,

Sample Y0SL0 is designated as sample for laboratory QC for case 31520. Only three Encores were sent for each sample. We can preserve each Encore for sample and MS/MSD analysis, but there will be no remaining sample for re-analysis or dilution if needed. How should we proceed?

Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)"
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Agnes,

Did the samples for this Case require reanalysis?

Please let me know.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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-----Original Message-----
From: Sturdavant, Holly
Sent: Thursday, March 20, 2003 9:44 AM
To: Agnes Ng (E-mail); Kin Chiu (E-mail)
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Agnes,

Below is the response from Region 9 regarding the volume and MS/MSD issues for Case 31520. Per the Region, if the samples require reanalysis, the lab should not run the MS/MSD analysis. If the samples do not require reanalysis, the lab should run the MS/MSD analysis. Please let me know if the samples require reanalysis.

Thanks,
Holly

Holly Rogers Sturdavant

CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Freitas.Richard@epamail.epa.gov
[mailto:Freitas.Richard@epamail.epa.gov]
Sent: Wednesday, March 19, 2003 4:32 PM
To: Sturdavant, Holly
Cc: Steve Remaley (E-mail)
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

If the samples require reanalysis, the lab should not run the MS/MSD analysis.

If the samples do not require reanalysis, the lab should run the MS/MSD analysis.

By the way, this case is complete.

Rich

From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
03/19/2003 11:32 AM

Rich,

Following is an email from MITKEM. Sample Y0SL0 is designated for lab QC on the TR/COC for Case 31520. The lab only received 3 ENCOREs for this sample. The lab states that they can preserve each ENCORE for sample and MS/MSD analysis, but there will be no remaining volume for reanalysis or dilution if required. Please advise on how the lab should proceed.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3 & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Wednesday, March 19, 2003 11:14 AM
To: Sturdavant, Holly
Subject: Case 31519 and 31520

Hi Holly,

Sample Y0SL0 is designated as sample for laboratory QC for case 31520. Only three Encores were sent for each sample. We can preserve each Encore for sample and MS/MSD analysis, but there will be no remaining sample for re-analysis or dilution if needed. How should we proceed?

Thanks,
Agnes

Agnes Ng
CLP Project Manager
ph: 401-732-3400
fax: 401-732-3499

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
Sent: Tuesday, March 25, 2003 2:31 PM
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue

Holly,

The lab has not analyzed the samples yet. I'll let you know if there are any problems.

Agnes

----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Did the samples for this Case require reanalysis?
>
> Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
> ----------
--
> ----------
> This is a PRIVATE message. If you are not the intended recipient, please
> delete without copying and kindly advise us by e-mail of the mistake in
> delivery. NOTE: Regardless of content, this e-mail shall not operate to bind
> CSC to any order or other contract unless pursuant to explicit written
> agreement or government initiative expressly permitting the use of e-mail
> for such purpose.
> ----------
>
>
>
> -----Original Message-----
> From: Sturdavant, Holly

148

> Sent: Thursday, March 20, 2003 9:44 AM
> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
>
> Agnes,
>
> Below is the response from Region 9 regarding the volume and MS/MSD issues
> for Case 31520. Per the Region, if the samples require reanalysis, the
lab
> should not run the MS/MSD analysis. If the samples do not require
> reanalysis, the lab should run the MS/MSD analysis. Please let me know if
> the samples require reanalysis.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Freitas.Richard@epamail.epa.gov
> [mailto:Freitas.Richard@epamail.epa.gov]
> Sent: Wednesday, March 19, 2003 4:32 PM
> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
> If the samples require reanalysis, the lab should not run the MS/MSD
> analysis.
>
> If the samples do not require reanalysis, the lab should run the MS/MSD
> analysis.
>
> By the way, this case is complete.
>
> Rich
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>
> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA
>
> cc:
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
> 03/19/2003 11:32 AM
>
>
> Rich,

>
> Following is an email from MITKEM. Sample Y0SL0 is designated for lab QC on
> the TR/COC for Case 31520. The lab only received 3 ENCOREs for this sample.
> The lab states that they can preserve each ENCORE for sample and MS/MSD
> analysis, but there will be no remaining volume for reanalysis or dilution
> if required. Please advise on how the lab should proceed.
>
> Thanks,
> Holly
>
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
>
> -----Original Message-----
> From: Agnes Ng [mailto:ang@mitkem.com]
> Sent: Wednesday, March 19, 2003 11:14 AM
> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
>
> Hi Holly,
>
> Sample Y0SL0 is designated as sample for laboratory QC for case 31520.
> Only three Encores were sent for each sample. We can preserve each
> Encore for sample and MS/MSD analysis, but there will be no remaining
> sample for re-analysis or dilution if needed. How should we proceed?
>
> Thanks,
> Agnes
>
> Agnes Ng
> CLP Project Manager
> ph: 401-732-3400
> fax: 401-732-3499
>

Agnes Ng

From: "Agnes Ng" <ang@mitkem.com>
To: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
Sent: Friday, March 28, 2003 2:56 PM
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue

Hi Holly,

Sample Y0SL0 did not require re-analysis, so we were able to perform the MS/MSD.

Samples Y0SL1 and Y0SL2 had target analytes detected above the instrument calibration range, so we needed to do a dilution. Since these were Encore samples, the samples were have to analyzed at medium level. The lab ran the medium level analysis, but no target analytes were detected above the CRQL. How would the Region like us to report the data?

Thanks,
Agnes
----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Did the samples for this Case require reanalysis?
>
> Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
> ----------
--
> ----------
> This is a PRIVATE message. If you are not the intended recipient, please
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> delivery. NOTE: Regardless of content, this e-mail shall not operate to
bind
> CSC to any order or other contract unless pursuant to explicit written
> agreement or government initiative expressly permitting the use of e-mail
> for such purpose.

> ----------
>
>
>
> -----Original Message-----
> From: Sturdavant, Holly
> Sent: Thursday, March 20, 2003 9:44 AM
> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
>
> Agnes,
>
> Below is the response from Region 9 regarding the volume and MS/MSD issues
> for Case 31520. Per the Region, if the samples require reanalysis, the
lab
> should not run the MS/MSD analysis. If the samples do not require
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> the samples require reanalysis.
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> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
> -----Original Message-----
> From: Freitas.Richard@epamail.epa.gov
> [mailto:Freitas.Richard@epamail.epa.gov]
> Sent: Wednesday, March 19, 2003 4:32 PM
> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
> If the samples require reanalysis, the lab should not run the MS/MSD
> analysis.
>
> If the samples do not require reanalysis, the lab should run the MS/MSD
> analysis.
>
> By the way, this case is complete.
>
> Rich
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>
> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA
>

> cc:
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
> 03/19/2003 11:32 AM
>
>
> Rich,
>
> Following is an email from MITKEM. Sample Y0SL0 is designated for lab QC on
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> The lab states that they can preserve each ENCORE for sample and MS/MSD
> analysis, but there will be no remaining volume for reanalysis or dilution
> if required. Please advise on how the lab should proceed.
>
> Thanks,
> Holly
>
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
>
>
> -----Original Message-----
> From: Agnes Ng [mailto:ang@mitkem.com]
> Sent: Wednesday, March 19, 2003 11:14 AM
> To: Sturdavant, Holly
> Subject: Case 31519 and 31520
>
> Hi Holly,
>
> Sample Y0SL0 is designated as sample for laboratory QC for case 31520.
> Only three Encores were sent for each sample. We can preserve each
> Encore for sample and MS/MSD analysis, but there will be no remaining
> sample for re-analysis or dilution if needed. How should we proceed?
>
> Thanks,
> Agnes
>
> Agnes Ng
> CLP Project Manager
> ph: 401-732-3400
> fax: 401-732-3499
>

Agnes Ng

From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Cc: "Rich Freitas (E-mail)" <freitas.richard@epa.gov>; "Steve Remaley (E-mail)" <Remaley.Steve@epamail.epa.gov>
Sent: Monday, March 31, 2003 4:18 PM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple | FINAL

Agnes,

Following is the resolution from Region 9 regarding the dilution of samples Y0SL1 and Y0SL2 for Case 31520. Per Region 9, the sampler only needs to know that the concentration is above CRQLs. The lab does not need to perform a diluted analysis for these samples for this Case. The lab will have to note in the SDG narrative that cis-1,2-dichloroethene was detected at 800 for both samples and proceed with the analysis.

Please let me know if you have any other questions or problems.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3, 7, & 9
703-264-9526
holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com

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3/31/2003 4:09pm
Phone conversation with Steve Remaley, PO Region 9. Per the Region, the sampler only needs to know that the concentration is above CRQLs. The lab does not need to perform a diluted analysis for these samples for this Case. The lab will have to note in the SDG narrative that cis-1,2-dichloroethene was detected at 800 for both samples and proceed with the analysis.

3/31/2003 2:42pm
Phone conversation with Steve Remaley, PO Region 9. Informed the Region of the lab's response regarding this Case. The Region would like to know who the RPM/PO and the site name for this Case. Informed the Region of this information.

3/31/2003 2:30pm
Phone conversation with Agnes Ng, MITKEM. She said that the instrument is

calibrated to 200 - the concentration of cis-1,2-dichloroethene was at 800 for both samples. The lab doesn't usually calibrate their instruments higher than 200.

3/31/2003 2:20pm
Received a voice mail from Agnes Ng. She is returning my call.

3/31/2003 2:07pm
Left a message for Agnes Ng regarding the Region's questions for calibration range.

3/31/2003 2:06pm
Phone conversation with Steve Remaley. Informed the Region of the lab's responses. The Region would like to know how far out of range cis-1,2-dichloroethene was. Also, has the lab tried calibrating higher?

3/31/2003 1:45pm
Phone conversation with Agnes Ng. In response to number 3 below, the only compound above CRQL for both samples is cis-1,2-dichloroethene.

3/31/2003 1:32pm
Phone conversation with Agnes Ng, MITKEM. In response to the Region's questions (below).
1. This is not a screening run, it is for the first run of the samples.
2. This did not appear to be related to instrument contamination.
3. The lab will check and let me know.
4. The lab can dilute, but will have to use volume for the dilution out of the % solid jar.

3/31/2003 1:28pm
Phone conversation with Steve Remaley, PO Region 9. The Region has a few questions regarding this issue.
1. Were these first runs or screening runs?
2. Was the data linear?
3. Which compound(s) were out of CRQLs?
4. What options does the lab suggest to fix the situation.

-----Original Message-----
From: Freitas.Richard@epamail.epa.gov
[mailto:Freitas.Richard@epamail.epa.gov]
Sent: Monday, March 31, 2003 1:06 PM
To: Sturdavant, Holly
Cc: Steve Remaley (E-mail)
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Hi Holly,

I think you need to contact Steve about this one. Doesn't seem there is much that can be done at this point.

Rich

From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>

To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA

cc:
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
03/31/2003 08:20 AM

Rich,

The lab is still waiting on a resolution to this issue. Please see below and advise on how the lab should proceed.

Thanks,
Holly

Holly Rogers Sturdavant
CSC
CLP Coordinator for Regions 3, 7, & 9
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-----Original Message-----
From: Sturdavant, Holly
Sent: Friday, March 28, 2003 4:42 PM
To: Rich Freitas (E-mail); Steve Remaley (E-mail)
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Rich,

Following is an email from MITKEM. For Case 31520, samples Y0SL1 and Y0SL2 had target analytes detected above the instrument calibration range, so the lab needed a dilution. Because these were Encore samplers, the samples were analyzed at medium level. When the lab ran the medium level analysis, no target analytes were detected above the CRQL. Please advise on how the Region would like the lab to report the data.

Thanks,
Holly

Holly Rogers Sturdavant

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-----Original Message-----
From: Agnes Ng [mailto:ang@mitkem.com]
Sent: Friday, March 28, 2003 2:57 PM
To: Sturdavant, Holly
Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

Hi Holly,

Sample Y0SL0 did not require re-analysis, so we were able to perform the MS/MSD.

Samples Y0SL1 and Y0SL2 had target analytes detected above the instrument calibration range, so we needed to do a dilution. Since these were Encore samples, the samples were have to analyzed at medium level. The lab ran the medium level analysis, but no target analytes were detected above the CRQL. How would the Region like us to report the data?

Thanks,
Agnes

----- Original Message -----
From: "Sturdavant, Holly" <Holly.Sturdavant@dyncorp.com>
To: "Agnes Ng (E-mail)" <ang@mitkem.com>; "Kin Chiu (E-mail)" <kchiu@mitkem.com>
Sent: Tuesday, March 25, 2003 10:42 AM
Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple

> Agnes,
>
> Did the samples for this Case require reanalysis?
>
> Please let me know.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant

> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> ----------
>
> -----Original Message-----
> From: Sturdavant, Holly
> Sent: Thursday, March 20, 2003 9:44 AM
> To: Agnes Ng (E-mail); Kin Chiu (E-mail)
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
> Agnes,
>
> Below is the response from Region 9 regarding the volume and MS/MSD issues
> for Case 31520. Per the Region, if the samples require reanalysis, the
lab
> should not run the MS/MSD analysis. If the samples do not require
> reanalysis, the lab should run the MS/MSD analysis. Please let me know if
> the samples require reanalysis.
>
> Thanks,
> Holly
>
> Holly Rogers Sturdavant
> CSC
> CLP Coordinator for Regions 3 & 9
> 703-264-9526
> holly.sturdavant@dyncorp.com or holly.rogers@dyncorp.com
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> To: Sturdavant, Holly
> Cc: Steve Remaley (E-mail)
> Subject: Re: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
>
> If the samples require reanalysis, the lab should not run the MS/MSD
> analysis.
>
> If the samples do not require reanalysis, the lab should run the MS/MSD

> analysis.
>
> By the way, this case is complete.
>
> Rich
>
> From: "Sturdavant, Holly"<Holly.Sturdavant@dyncorp.com>
>
> To: Richard Freitas/R9/USEPA/US@EPA, Steve Remaley/R9/USEPA/US@EPA
> cc:
> Subject: Region 09 | Case 31520 | Lab MITKEM | Issue Multiple
> 03/19/2003 11:32 AM
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> Agnes Ng

> CLP Project Manager
> ph: 401-732-3400
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>